

itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
3386 LONGHORN ROAD, BOULDER, CO 80302 USA

PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com
REPORT NUMBER: ITL63764

DATE: 12/31/09
REVISED: 02/02/10
PAGE 1

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: NS-LED-e23-MFL-12; AR-LED-TR-e23-MFL-12-C; AR-LED-RM-e23-MFL-12-C;
DS-LED-e23-MFL-12; RM-LED-e23-MFL-12-C; SN-LED-e23-MFL-12-C;
ST-LED-e23-MFL-12-C; SF-LED-e23-MFL-12-C; TF-LED-e23-MFL-12-C;
WS-LED-e23-MFL-12; AW-LED-e23-MFL-12; SW-LED-e23-MFL-12; VS-LED-e23-MFL-12;
VQ-LED-e23-MFL-12; GD-LED-e23-MFL-12; GQ-LED-e23-MFL-12; EC-LED-e23-MFL-12;
ED-LED-e23-MFL-12; SM-AR-LED-e23-MFL-12-C

LUMINAIRE: MACHINED CYLINDRICAL METAL HOUSING, ONE CIRCUIT BOARD WITH 3 LEDS, ONE
CLEAR CONICAL PLASTIC OPTIC PER LED WITH FROSTED SURFACE OPPOSITE LED, MOLDED
BLACK PLASTIC OPTIC MOUNTING FRAME, CLEAR FLAT MICRO-PRISMATIC GLASS LENS IN
MACHINED WHITE PAINTED CYLINDRICAL METAL FRAME WITH UNFINISHED INTERIOR, LENS
PRISMS IN.

LAMPS: THREE 2.5-WATT WHITE LIGHT EMITTING DIODES (LEDs) EACH WITH CLEAR
HEMISPHERICAL INTEGRAL PLASTIC LENS, LEDS AIMED AT THE HORIZON.

TOTAL INPUT WATTS = 8.2 AT 12.0 VOLTS

LED DRIVER: INTEGRAL

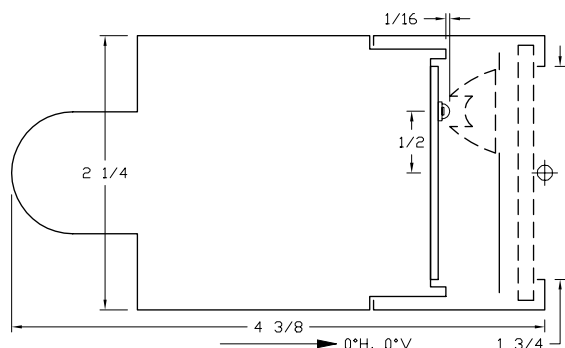
NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (12VAC,
60Hz) TO THE LED DRIVER. LAMP INFORMATION PROVIDED BY CLIENT.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 25.25 FEET

FLOODLIGHT CHARACTERISTICS

IES TYPE	4H X 4V				
MAXIMUM CANDLEPOWER	1335.	AT	0.0 H,	0.0 V	AXIAL CANDLEPOWER
HORIZONTAL BEAM ANGLE (50%)	25.7 deg				
VERTICAL BEAM ANGLE (50%)	24.9 deg				
HORIZONTAL FIELD ANGLE (10%)	50.4 deg				
VERTICAL FIELD ANGLE (10%)	50.0 deg				
BEAM LUMENS (% FIXTURE)	143. (41.2 %)				
FIELD LUMENS (% FIXTURE)	283. (81.7 %)				
TOTAL LUMENS (% FIXTURE)	346. (100.0 %)				
EFFICACY = 42.2 Lm/W					

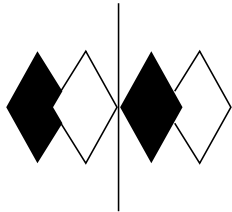


Checked *N WHITE*

Approved *R BEATTIE*

DEG	HORIZ.	DEG	VERT.
90.0	0.	90.0	0.
85.0	0.	85.0	0.
75.0	1.	75.0	1.
65.0	2.	65.0	2.
55.0	5.	55.0	4.
47.5	9.	47.5	8.
42.5	14.	42.5	13.
37.5	25.	37.5	23.
33.0	44.	33.0	42.
29.0	77.	29.0	75.
25.5	127.	25.5	125.
22.5	194.	22.5	190.
19.5	296.	19.5	292.
17.0	414.	17.0	408.
15.0	525.	15.0	521.
13.0	657.	13.0	652.
11.0	800.	11.0	799.
9.0	940.	9.0	946.
7.0	1080.	7.0	1089.
5.0	1200.	5.0	1208.
3.0	1285.	3.0	1295.
1.0	1330.	1.0	1335.
0.0	1335.	0.0	1335.
-1.0	1330.	-1.0	1325.
-3.0	1285.	-3.0	1264.
-5.0	1200.	-5.0	1161.
-7.0	1080.	-7.0	1031.
-9.0	940.	-9.0	887.
-11.0	800.	-11.0	744.
-13.0	657.	-13.0	608.
-15.0	525.	-15.0	485.
-17.0	414.	-17.0	380.
-19.5	296.	-19.5	274.
-22.5	194.	-22.5	183.
-25.5	127.	-25.5	122.
-29.0	77.	-29.0	75.
-33.0	44.	-33.0	43.
-37.5	25.	-37.5	24.
-42.5	14.	-42.5	14.
-47.5	9.	-47.5	9.
-55.0	5.	-55.0	5.
-65.0	2.	-65.0	2.
-75.0	1.	-75.0	1.
-85.0	0.	-85.0	0.
-90.0	0.	-90.0	0.

ALL CANDELA AND LUMEN VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY.
THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES. FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE.



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CANDELA TABULATION

PAGE 2

AVERAGE OF RIGHT AND LEFT SIDES

	0.0	1.0	3.0	5.0	7.0	9.0	11.0	13.0	15.0	17.0	19.5	22.5	25.5	29.0	33.0	37.5	42.5	47.5	55.0	65.0	75.0	85.0	90.0
90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
85.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
75.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.
65.0	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	1.	1.	1.	1.	1.	1.	0.	0.
55.0	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	3.	3.	4.	3.	3.	2.	2.	2.	1.	1.	1.	0.	0.
47.5	8.	8.	8.	8.	8.	8.	7.	7.	7.	7.	7.	6.	6.	5.	4.	4.	3.	2.	2.	1.	1.	0.	0.
42.5	13.	13.	13.	13.	12.	12.	12.	11.	11.	10.	10.	9.	8.	7.	6.	5.	4.	3.	2.	1.	1.	0.	0.
37.5	23.	23.	23.	22.	22.	21.	20.	19.	18.	16.	15.	13.	11.	10.	8.	6.	5.	4.	2.	1.	1.	0.	0.
33.0	42.	42.	41.	40.	38.	36.	34.	31.	29.	26.	23.	19.	16.	13.	10.	8.	6.	4.	3.	2.	1.	0.	0.
29.0	75.	75.	74.	71.	67.	63.	58.	52.	47.	41.	35.	29.	23.	18.	13.	10.	7.	5.	3.	2.	1.	0.	0.
25.5	125.	125.	122.	116.	109.	100.	91.	81.	72.	63.	52.	41.	32.	24.	17.	12.	8.	6.	3.	2.	1.	0.	0.
22.5	190.	190.	186.	178.	166.	152.	136.	119.	103.	88.	72.	55.	42.	30.	21.	14.	9.	6.	4.	2.	1.	0.	0.
19.5	292.	291.	283.	268.	248.	223.	197.	170.	145.	122.	97.	72.	53.	37.	25.	16.	10.	7.	4.	2.	1.	0.	0.
17.0	408.	406.	394.	371.	341.	305.	267.	228.	191.	159.	123.	89.	64.	44.	28.	18.	11.	7.	4.	2.	1.	0.	0.
15.0	521.	519.	503.	473.	433.	384.	333.	282.	235.	193.	147.	105.	74.	49.	31.	19.	11.	7.	4.	2.	1.	0.	0.
13.0	652.	650.	629.	590.	537.	474.	409.	343.	283.	231.	173.	121.	84.	55.	34.	20.	12.	8.	4.	2.	1.	0.	0.
11.0	799.	795.	769.	719.	652.	573.	491.	409.	335.	270.	201.	138.	94.	60.	36.	21.	13.	8.	4.	2.	1.	0.	0.
9.0	946.	941.	910.	851.	770.	674.	574.	477.	386.	309.	227.	154.	104.	65.	39.	22.	13.	8.	4.	2.	1.	0.	0.
7.0	1089.	1084.	1047.	978.	882.	770.	654.	539.	435.	346.	251.	169.	112.	70.	41.	23.	13.	8.	5.	2.	1.	0.	0.
5.0	1208.	1204.	1163.	1085.	978.	852.	722.	593.	476.	377.	271.	180.	119.	73.	42.	24.	14.	8.	5.	2.	1.	0.	0.
3.0	1295.	1288.	1246.	1162.	1047.	910.	772.	633.	506.	399.	286.	189.	124.	75.	43.	24.	14.	9.	5.	2.	1.	0.	0.
1.0	1335.	1329.	1284.	1198.	1080.	939.	797.	655.	523.	412.	295.	193.	127.	77.	44.	25.	14.	9.	5.	2.	1.	0.	0.
0.0	1335.	1330.	1285.	1200.	1080.	940.	800.	657.	525.	414.	296.	194.	127.	77.	44.	25.	14.	9.	5.	2.	1.	0.	0.
-1.0	1325.	1318.	1272.	1189.	1071.	933.	794.	652.	522.	412.	294.	193.	127.	77.	44.	25.	14.	9.	5.	2.	1.	0.	0.
-3.0	1264.	1257.	1214.	1134.	1024.	896.	763.	628.	504.	399.	286.	189.	124.	75.	43.	24.	14.	9.	5.	2.	1.	0.	0.
-5.0	1161.	1156.	1116.	1045.	947.	831.	710.	587.	473.	375.	271.	180.	119.	73.	42.	24.	14.	9.	5.	2.	1.	0.	0.
-7.0	1031.	1026.	993.	931.	846.	745.	638.	531.	430.	343.	250.	168.	111.	69.	40.	23.	13.	8.	5.	2.	1.	0.	0.
-9.0	887.	883.	856.	804.	734.	648.	558.	466.	381.	306.	224.	152.	103.	64.	38.	22.	13.	8.	5.	2.	1.	0.	0.
-11.0	744.	741.	719.	676.	618.	549.	476.	400.	329.	266.	198.	137.	93.	59.	36.	21.	12.	8.	4.	2.	1.	0.	0.
-13.0	608.	604.	587.	554.	509.	454.	396.	335.	278.	227.	171.	120.	83.	54.	33.	20.	12.	8.	4.	2.	1.	0.	0.
-15.0	485.	483.	470.	445.	410.	367.	322.	275.	230.	190.	145.	104.	73.	48.	30.	19.	11.	7.	4.	2.	1.	0.	0.
-17.0	380.	378.	368.	350.	324.	292.	258.	222.	188.	156.	122.	88.	63.	43.	27.	17.	11.	7.	4.	2.	1.	0.	0.
-19.5	274.	274.	267.	254.	237.	215.	192.	167.	143.	121.	96.	71.	52.	36.	24.	16.	10.	7.	4.	2.	1.	0.	0.
-22.5	183.	182.	179.	171.	161.	147.	133.	117.	102.	87.	71.	54.	41.	29.	20.	14.	9.	6.	4.	2.	1.	0.	0.
-25.5	122.	121.	119.	114.	107.	99.	89.	80.	71.	62.	51.	40.	32.	24.	17.	12.	8.	6.	4.	2.	1.	0.	0.
-29.0	75.	75.	73.	71.	67.	63.	58.	52.	47.	41.	36.	29.	23.	18.	14.	10.	7.	5.	3.	2.	1.	0.	0.
-33.0	43.	43.	43.	41.	40.	37.	35.	32.	30.	27.	24.	20.	17.	13.	11.	8.	6.	5.	3.	2.	1.	0.	0.
-37.5	24.	24.	24.	24.	23.	22.	21.	20.	18.	17.	15.	14.	12.	10.	8.	7.	5.	4.	3.	2.	1.	0.	0.
-42.5	14.	14.	14.	14.	14.	13.	13.	12.	12.	11.	10.	9.	8.	7.	6.	5.	4.	3.	2.	1.	1.	0.	0.
-47.5	9.	9.	9.	9.	8.	8.	8.	8.	8.	7.	7.	6.	6.	5.	5.	3.	3.	3.	2.	1.	1.	0.	0.
-55.0	5.	5.	5.	5.	5.	5.	4.	4.	4.	4.	4.	4.	4.	4.	3.	3.	2.	2.	2.	1.	0.	0.	0.
-65.0	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	1.	1.	1.	1.	0.	0.	0.
-75.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.
-85.0	0.	0.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
-90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

BEAM EDGE = 668. CP = 50% OF MAX
FIELD EDGE = 134. CP = 10% OF MAX

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CANDELA TABULATION - FIELD ONLY

PAGE 3

AVERAGE OF RIGHT AND LEFT SIDES

	0.0	1.0	3.0	5.0	7.0	9.0	11.0	13.0	15.0	17.0	19.5	22.5	25.5	29.0	33.0	37.5	42.5	47.5	55.0	65.0	75.0	85.0	90.0
90.0																							
85.0																							
75.0																							
65.0																							
55.0																							
47.5																							
42.5																							
37.5																							
33.0																							
29.0																							
25.5																							
22.5	190.	190.	186.	178.	166.	152.	136.																
19.5	292.	291.	283.	268.	248.	223.	197.	170.	145.														
17.0	408.	406.	394.	371.	341.	305.	267.	228.	191.	159.													
15.0	521.	519.	503.	473.	433.	384.	333.	282.	235.	193.	147.												
13.0	652.	650.	629.	590.	537.	474.	409.	343.	283.	231.	173.												
11.0	799.	795.	769.	719.	652.	573.	491.	409.	335.	270.	201.	138.											
9.0	946.	941.	910.	851.	770.	674.	574.	477.	386.	309.	227.	154.											
7.0	1089.	1084.	1047.	978.	882.	770.	654.	539.	435.	346.	251.	169.											
5.0	1208.	1204.	1163.	1085.	978.	852.	722.	593.	476.	377.	271.	180.											
3.0	1295.	1288.	1246.	1162.	1047.	910.	772.	633.	506.	399.	286.	189.											
1.0	1335.	1329.	1284.	1198.	1080.	939.	797.	655.	523.	412.	295.	193.											
0.0	1335.	1330.	1285.	1200.	1080.	940.	800.	657.	525.	414.	296.	194.											
-1.0	1325.	1318.	1272.	1189.	1071.	933.	794.	652.	522.	412.	294.	193.											
-3.0	1264.	1257.	1214.	1134.	1024.	896.	763.	628.	504.	399.	286.	189.											
-5.0	1161.	1156.	1116.	1045.	947.	831.	710.	587.	473.	375.	271.	180.											
-7.0	1031.	1026.	993.	931.	846.	745.	638.	531.	430.	343.	250.	168.											
-9.0	887.	883.	856.	804.	734.	648.	558.	466.	381.	306.	224.	152.											
-11.0	744.	741.	719.	676.	618.	549.	476.	400.	329.	266.	198.	137.											
-13.0	608.	604.	587.	554.	509.	454.	396.	335.	278.	227.	171.												
-15.0	485.	483.	470.	445.	410.	367.	322.	275.	230.	190.	145.												
-17.0	380.	378.	368.	350.	324.	292.	258.	222.	188.	156.													
-19.5	274.	274.	267.	254.	237.	215.	192.	167.	143.														
-22.5	183.	182.	179.	171.	161.	147.																	
-25.5																							
-29.0																							
-33.0																							
-37.5																							
-42.5																							
-47.5																							
-55.0																							
-65.0																							
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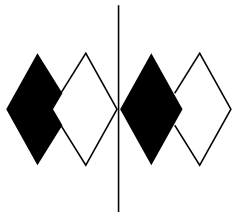
LUMEN TABULATION

PAGE 4

AVERAGE OF RIGHT AND LEFT SIDES

	0	2	4	6	8	10	12	14	16	18	21	24	27	31	35	40	45	50	60	70	80	90	TOTAL
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
40	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
35	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
31	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
27	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
24	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
21	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
18	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
16	0.6	0.6	0.6	0.5	0.5	0.4	0.3	0.3	0.2	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
14	0.8	0.8	0.7	0.6	0.6	0.5	0.4	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9
12	1.0	0.9	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1
10	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
8	1.3	1.3	1.2	1.1	0.9	0.8	0.6	0.5	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4
6	1.5	1.4	1.3	1.2	1.0	0.9	0.7	0.6	0.4	0.5	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3
4	1.6	1.5	1.4	1.3	1.1	0.9	0.8	0.6	0.5	0.5	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0
2	1.6	1.6	1.5	1.3	1.1	1.0	0.8	0.6	0.5	0.5	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3
0	1.6	1.5	1.4	1.3	1.1	0.9	0.8	0.6	0.5	0.5	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3
-2	1.5	1.5	1.4	1.2	1.1	0.9	0.7	0.6	0.5	0.5	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8
-4	1.4	1.4	1.3	1.1	1.0	0.8	0.7	0.6	0.4	0.5	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1
-6	1.2	1.2	1.1	1.0	0.9	0.8	0.6	0.5	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1
-8	1.1	1.0	1.0	0.9	0.8	0.7	0.6	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9
-10	0.9	0.9	0.8	0.7	0.7	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
-12	0.7	0.7	0.7	0.6	0.5	0.5	0.4	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7
-14	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7
-16	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
-18	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
-21	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
-24	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
-27	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
-31	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
-35	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
-45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
-50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-90	22.7	22.0	20.6	18.7	16.5	14.2	11.8	9.7	7.8	8.7	6.0	4.2	3.6	2.3	1.7	1.0	0.7	0.7	0.3	0.1	0.0	0.0	173.1

LUMEN TOTAL THIS PAGE = 173.1



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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
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REPORT NUMBER: ITL63764
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DATE: 12/31/09
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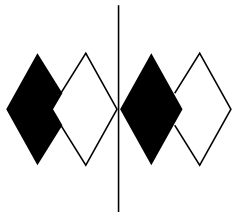
LUMEN TABULATION - FIELD ONLY

PAGE 5

AVERAGE OF RIGHT AND LEFT SIDES

0	2	4	6	8	10	12	14	16	18	21	24	27	31	35	40	45	50	60	70	80	90	TOTAL
90																						0.0
80																						0.0
70																						0.0
60																						0.0
50																						0.0
45																						0.0
40																						0.0
35																						0.0
31																						0.0
27																						0.0
24																						0.0
21	0.3	0.3	0.3	0.3	0.3	0.2																1.8
18	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3														3.3
16	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.2													3.2
14	0.6	0.6	0.6	0.5	0.5	0.4	0.3	0.3	0.2	0.3												4.3
12	0.8	0.8	0.7	0.6	0.6	0.5	0.4	0.3	0.3	0.3												5.3
10	1.0	0.9	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.3	0.2											6.6
8	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3											7.7
6	1.3	1.3	1.2	1.1	0.9	0.8	0.6	0.5	0.4	0.4	0.3											8.8
4	1.5	1.4	1.3	1.2	1.0	0.9	0.7	0.6	0.4	0.5	0.3											9.7
2	1.6	1.5	1.4	1.3	1.1	0.9	0.8	0.6	0.5	0.5	0.3											10.4
0	1.6	1.6	1.5	1.3	1.1	1.0	0.8	0.6	0.5	0.5	0.3											10.7
-2	1.6	1.5	1.4	1.3	1.1	0.9	0.8	0.6	0.5	0.5	0.3											10.7
-4	1.5	1.5	1.4	1.2	1.1	0.9	0.7	0.6	0.5	0.5	0.3											10.2
-6	1.4	1.4	1.3	1.1	1.0	0.8	0.7	0.6	0.4	0.5	0.3											9.5
-8	1.2	1.2	1.1	1.0	0.9	0.8	0.6	0.5	0.4	0.4	0.3											8.5
-10	1.1	1.0	1.0	0.9	0.8	0.7	0.6	0.4	0.4	0.4	0.3											7.4
-12	0.9	0.9	0.8	0.7	0.7	0.6	0.5	0.4	0.3	0.3	0.2											6.3
-14	0.7	0.7	0.7	0.6	0.5	0.5	0.4	0.3	0.3	0.3												5.0
-16	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.2												4.1
-18	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2													3.1
-21	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3														3.2
-24	0.3	0.3	0.3	0.3	0.3																	1.5
-27																						0.0
-31																						0.0
-35																						0.0
-40																						0.0
-45																						0.0
-50																						0.0
-60																						0.0
-70																						0.0
-80																						0.0
-90																						0.0
	21.3	20.6	19.3	17.4	15.3	12.8	10.4	8.4	6.3	6.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	141.5

LUMEN TOTAL THIS PAGE = 141.5



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PAGE 6

AVERAGE OF RIGHT AND LEFT SIDES

