

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

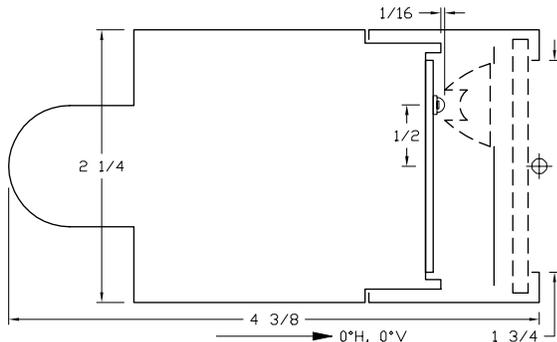
NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (12VAC, 60Hz) TO THE LED DRIVER. LAMP INFORMATION PROVIDED BY CLIENT.

TEST PROCEDURE: IESNA LM-79-08

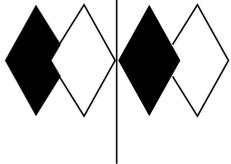
TEST DISTANCE = 25.25 FEET

FLOODLIGHT CHARACTERISTICS

IES TYPE	4H X 4V				AXIAL CANDLEPOWER		
MAXIMUM CANDLEPOWER	1335.	AT	0.0 H,	0.0 V			
HORIZONTAL BEAM ANGLE (50%)	25.7 deg						
VERTICAL BEAM ANGLE (50%)	24.9 deg				DEG	HORIZ.	DEG
HORIZONTAL FIELD ANGLE (10%)	50.4 deg						VERT.
VERTICAL FIELD ANGLE (10%)	50.0 deg						
BEAM LUMENS (% FIXTURE)	143. (41.2 %)				90.0	0.	90.0
FIELD LUMENS (% FIXTURE)	283. (81.7 %)				85.0	0.	85.0
TOTAL LUMENS (% FIXTURE)	346. (100.0 %)				75.0	1.	75.0
EFFICACY = 42.2 Lm/W					65.0	2.	65.0
					55.0	5.	55.0
					47.5	9.	47.5
					42.5	14.	42.5
					37.5	25.	37.5
					33.0	44.	33.0
					29.0	77.	29.0
					25.5	127.	25.5
					22.5	194.	22.5
					19.5	296.	19.5
					17.0	414.	17.0
					15.0	525.	15.0
					13.0	657.	13.0
					11.0	800.	11.0
					9.0	940.	9.0
					7.0	1080.	7.0
					5.0	1200.	5.0
					3.0	1285.	3.0
					1.0	1330.	1.0
					0.0	1335.	0.0
					-1.0	1330.	-1.0
					-3.0	1285.	-3.0
					-5.0	1200.	-5.0
					-7.0	1080.	-7.0
					-9.0	940.	-9.0
					-11.0	800.	-11.0
					-13.0	657.	-13.0
					-15.0	525.	-15.0
					-17.0	414.	-17.0
					-19.5	296.	-19.5
					-22.5	194.	-22.5
					-25.5	127.	-25.5
					-29.0	77.	-29.0
					-33.0	44.	-33.0
					-37.5	25.	-37.5
					-42.5	14.	-42.5
					-47.5	9.	-47.5
					-55.0	5.	-55.0
					-65.0	2.	-65.0
					-75.0	1.	-75.0
					-85.0	0.	-85.0
					-90.0	0.	-90.0



Checked *N. WHITE*
Approved *R. BEATTIE*



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CANDELA TABULATION

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.	6.	6.	5.	5.	4.	3.	3.	3.	2.	1.	1.	0.	0.
-55.0	5.	5.	5.	5.	5.	4.	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.	1.	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



INDEPENDENT TESTING LABORATORIES, INC.
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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																								
-75.0																								
-85.0																								
-90.0																								

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

THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES. FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE.



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LUMEN TABULATION

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	0.1	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	0.1	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	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
	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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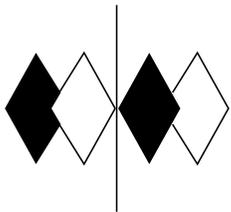
DATE: 12/31/09
 REVISED: 02/02/10

LUMEN TABULATION - FIELD ONLY

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	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	0.0	141.5

LUMEN TOTAL THIS PAGE = 141.5



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