

REPORT NUMBER: ITL85918

PAGE: 1 OF 7

ISSUE DATE: 10/30/15

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: NS-LED-e64-SP-12, AR-LED-TR-e64-SP-12, AR-LED-RM-e64-SP-12, DS-LED-e64-SP-12, RM-AR-LED-e64-SP-12, SN-LED-e64-SP-12, ST-LED-e64-SP-12, SF-LED-e64-SP-12, TF-LED-e64-SP-12, WS-LED-e64-SP-12, AW-LED-e64-SP-12, SW-LED-e64-SP-12, GD-LED-e64-SP-12, GQ-LED-e64-SP-12, EC-LED-e64-SP-12, ED-LED-e64-SP-12, SM-AR-LED-e64-SP-12, PM-LED-e64-SP-12, WM-LED-e64-SP-12, UL-AR-LED-e64-SP-12, HP2-LED-e64-SP-12, CO2-LED-e64-SP-12, VQ-LED-e64-SP-12, VS-LED-e64-SP-12

LUMINAIRE: MACHINED CYLINDRICAL METAL HOUSING, 1 BLACK CIRCUIT BOARD WITH 3 LEDS, ONE CLEAR CONICAL PLASTIC OPTIC PER LED WITH FROSTED SURFACE OPPOSITE LED AND SEMI-HEMISPHERICAL RECESSED CENTER TOWARD LED, MOLDED BLACK PLASTIC OPTIC MOUNTING FRAME, CLEAR MICRO-PRISMATIC FLAT GLASS LENS IN MACHINED CYLINDRICAL BLACK PAINTED METAL LENS FRAME. LENS PRISMS OUT.

LAMPS: THREE WHITE LIGHT EMITTING DIODES (LEDs), AIMED AT THE HORIZON.

INPUT ELECTRICAL: 12.0 VOLTS, 6.93 WATTS, 0.639 AMPS

LED DRIVER: B-K LIGHTING 528930/400188-M, DRIVER HAS MULTIPLE LEADS, LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST.

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (12VAC, 60Hz) TO THE DRIVER. POTENTIOMETER ON THE LED CIRCUIT BOARD SET TO POSITION "9" FOR THIS TEST.

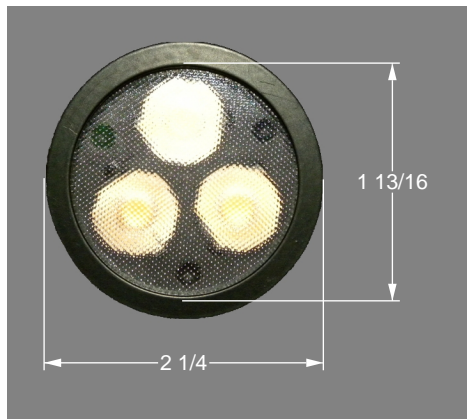
TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 20.0 FEET

#### AXIAL CANDLEPOWER

#### FLOODLIGHT CHARACTERISTICS

IES TYPE 3H X 3V  
MAXIMUM CANDLEPOWER 4639. AT 0.0 H, 0.0 V  
HORIZONTAL BEAM ANGLE (50%) 15.4 deg  
VERTICAL BEAM ANGLE (50%) 15.2 deg  
HORIZONTAL FIELD ANGLE (10%) 30.3 deg  
VERTICAL FIELD ANGLE (10%) 29.6 deg  
BEAM LUMENS (% FIXTURE) 190. ( 42.7 % )  
FIELD LUMENS (% FIXTURE) 355. ( 79.5 % )  
TOTAL LUMENS (% FIXTURE) 446. (100.0 % )  
EFFICACY = 64.4 lm/W



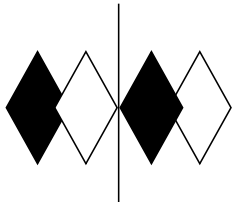
Checked B HYRE

Approved R BEATTIE  
Lighting Engineer

DEG	HORIZ.	DEG	VERT.
90.0	0.	90.0	0.
85.0	0.	85.0	0.
75.0	0.	75.0	0.
65.0	1.	65.0	2.
55.0	4.	55.0	4.
47.5	6.	47.5	6.
42.5	8.	42.5	8.
37.5	12.	37.5	12.
33.0	19.	33.0	18.
29.0	30.	29.0	30.
25.5	50.	25.5	49.
22.5	87.	22.5	81.
19.5	161.	19.5	141.
17.0	287.	17.0	264.
15.0	476.	15.0	430.
13.0	770.	13.0	710.
11.0	1206.	11.0	1157.
9.0	1822.	9.0	1715.
7.0	2594.	7.0	2517.
5.0	3411.	5.0	3373.
3.0	4155.	3.0	4125.
1.0	4587.	1.0	4572.
0.0	4639.	0.0	4639.
-1.0	4587.	-1.0	4592.
-3.0	4155.	-3.0	4172.
-5.0	3411.	-5.0	3436.
-7.0	2594.	-7.0	2589.
-9.0	1822.	-9.0	1804.
-11.0	1206.	-11.0	1178.
-13.0	770.	-13.0	734.
-15.0	476.	-15.0	448.
-17.0	287.	-17.0	273.
-19.5	161.	-19.5	153.
-22.5	87.	-22.5	85.
-25.5	50.	-25.5	52.
-29.0	30.	-29.0	32.
-33.0	19.	-33.0	20.
-37.5	12.	-37.5	13.
-42.5	8.	-42.5	8.
-47.5	6.	-47.5	6.
-55.0	4.	-55.0	4.
-65.0	1.	-65.0	2.
-75.0	0.	-75.0	0.
-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.



**itl boulder**  
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955



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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	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
65.0	2.	2.	2.	2.	2.	2.	2.	2.	2.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.
55.0	4.	4.	4.	4.	4.	4.	4.	4.	4.	3.	3.	3.	3.	3.	2.	2.	2.	1.	1.	0.	0.	0.	0.
47.5	6.	6.	6.	6.	6.	5.	5.	5.	5.	5.	5.	5.	5.	4.	4.	3.	3.	2.	1.	1.	0.	0.	0.
42.5	8.	8.	8.	8.	8.	7.	7.	7.	7.	7.	7.	6.	6.	5.	5.	4.	3.	3.	2.	1.	0.	0.	0.
37.5	12.	12.	12.	11.	11.	11.	11.	10.	10.	10.	9.	8.	8.	7.	6.	5.	4.	3.	2.	1.	0.	0.	0.
33.0	18.	18.	18.	17.	17.	16.	15.	15.	14.	13.	12.	11.	10.	9.	7.	6.	5.	4.	2.	1.	0.	0.	0.
29.0	30.	29.	29.	28.	26.	25.	23.	21.	19.	18.	16.	14.	13.	11.	9.	7.	5.	4.	3.	1.	0.	0.	0.
25.5	49.	48.	47.	45.	42.	38.	35.	32.	28.	25.	22.	18.	15.	13.	10.	8.	6.	4.	3.	1.	0.	0.	0.
22.5	81.	80.	77.	73.	67.	60.	54.	47.	40.	34.	28.	23.	19.	15.	11.	9.	6.	5.	3.	1.	0.	0.	0.
19.5	141.	146.	136.	126.	112.	98.	83.	70.	58.	48.	38.	29.	22.	17.	13.	9.	7.	5.	3.	1.	0.	0.	0.
17.0	264.	260.	239.	215.	185.	154.	126.	102.	81.	65.	49.	35.	26.	19.	14.	10.	7.	5.	3.	1.	0.	0.	0.
15.0	430.	417.	392.	342.	287.	230.	181.	140.	107.	82.	60.	41.	30.	21.	15.	11.	8.	5.	3.	1.	0.	0.	0.
13.0	710.	671.	643.	552.	451.	350.	264.	194.	143.	105.	73.	48.	33.	23.	16.	11.	8.	6.	3.	1.	0.	0.	0.
11.0	1157.	1087.	1028.	872.	697.	526.	381.	270.	190.	133.	88.	56.	37.	25.	17.	12.	8.	6.	4.	1.	0.	0.	0.
9.0	1715.	1761.	1611.	1322.	1037.	764.	538.	370.	248.	167.	105.	64.	40.	26.	18.	12.	8.	6.	4.	1.	0.	0.	0.
7.0	2517.	2535.	2309.	1917.	1460.	1054.	724.	487.	314.	205.	123.	72.	44.	28.	18.	12.	8.	6.	4.	1.	0.	0.	0.
5.0	3373.	3380.	3070.	2498.	1918.	1366.	921.	607.	381.	240.	139.	78.	47.	29.	19.	12.	8.	6.	4.	1.	0.	0.	0.
3.0	4125.	4120.	3699.	3040.	2320.	1637.	1092.	706.	438.	269.	152.	84.	49.	30.	19.	12.	8.	6.	4.	1.	0.	0.	0.
1.0	4572.	4541.	4100.	3364.	2558.	1798.	1192.	762.	471.	285.	160.	86.	50.	30.	19.	12.	8.	6.	4.	1.	0.	0.	0.
0.0	4639.	4587.	4155.	3411.	2594.	1822.	1206.	770.	476.	287.	161.	87.	50.	30.	19.	12.	8.	6.	4.	1.	0.	0.	0.
-1.0	4592.	4520.	4094.	3375.	2569.	1805.	1197.	762.	472.	285.	160.	86.	50.	30.	19.	12.	8.	6.	4.	1.	0.	0.	0.
-3.0	4172.	4077.	3694.	3046.	2349.	1661.	1106.	707.	443.	269.	154.	84.	48.	30.	19.	12.	8.	6.	4.	1.	0.	0.	0.
-5.0	3436.	3342.	3034.	2518.	1941.	1401.	945.	611.	390.	242.	141.	78.	46.	29.	18.	12.	8.	6.	4.	1.	0.	0.	0.
-7.0	2589.	2506.	2284.	1913.	1490.	1095.	751.	495.	325.	207.	124.	71.	43.	27.	18.	12.	8.	6.	4.	1.	0.	0.	0.
-9.0	1804.	1740.	1595.	1348.	1065.	799.	562.	381.	259.	171.	106.	63.	40.	26.	17.	11.	8.	6.	4.	1.	0.	0.	0.
-11.0	1178.	1130.	1042.	893.	718.	553.	401.	282.	199.	136.	89.	55.	36.	24.	16.	11.	8.	6.	4.	1.	0.	0.	0.
-13.0	734.	703.	652.	579.	475.	369.	277.	203.	149.	107.	74.	47.	32.	22.	15.	11.	7.	6.	4.	1.	0.	0.	0.
-15.0	448.	429.	401.	362.	304.	244.	191.	145.	112.	84.	60.	40.	28.	20.	14.	10.	7.	5.	4.	1.	0.	0.	0.
-17.0	273.	263.	248.	228.	196.	163.	133.	105.	84.	65.	49.	34.	25.	18.	13.	10.	7.	5.	3.	1.	0.	0.	0.
-19.5	153.	149.	143.	132.	119.	102.	87.	72.	59.	48.	38.	28.	21.	16.	12.	9.	7.	5.	3.	1.	0.	0.	0.
-22.5	85.	83.	80.	76.	70.	63.	56.	48.	41.	34.	28.	22.	18.	14.	11.	8.	6.	5.	3.	1.	0.	0.	0.
-25.5	52.	51.	50.	47.	44.	40.	36.	33.	29.	25.	22.	18.	15.	12.	9.	7.	6.	5.	3.	1.	0.	0.	0.
-29.0	32.	32.	31.	30.	28.	27.	24.	23.	20.	19.	17.	14.	12.	10.	8.	7.	5.	4.	3.	1.	0.	0.	0.
-33.0	20.	20.	20.	19.	18.	18.	17.	16.	15.	14.	13.	11.	10.	8.	7.	6.	5.	4.	2.	1.	0.	0.	0.
-37.5	13.	13.	13.	12.	12.	12.	11.	11.	10.	10.	9.	8.	8.	7.	6.	5.	4.	3.	2.	1.	0.	0.	0.
-42.5	8.	8.	8.	8.	8.	8.	8.	7.	7.	7.	7.	6.	6.	5.	5.	4.	3.	3.	2.	0.	0.	0.	0.
-47.5	6.	6.	6.	6.	6.	6.	5.	5.	5.	5.	5.	5.	4.	4.	4.	3.	3.	2.	1.	0.	0.	0.	0.
-55.0	4.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	2.	2.	2.	1.	1.	0.	0.	0.	0.
-65.0	2.	2.	2.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.
-75.0	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.
-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 = 2320. CP = 50% OF MAX  
FIELD EDGE = 464. CP = 10% OF MAX

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



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### CANDELA TABULATION - FIELD ONLY

### 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																								
19.5																								
17.0																								
15.0																								
13.0	710.	671.	643.	552.																				
11.0	1157.	1087.	1028.	872.	697.	526.																		
9.0	1715.	1761.	1611.	1322.	1037.	764.	538.																	
7.0	2517.	2535.	2309.	1917.	1460.	1054.	724.	487.																
5.0	3373.	3380.	3070.	2498.	1918.	1366.	921.	607.																
3.0	4125.	4120.	3699.	3040.	2320.	1637.	1092.	706.																
1.0	4572.	4541.	4100.	3364.	2558.	1798.	1192.	762.	471.															
0.0	4639.	4587.	4155.	3411.	2594.	1822.	1206.	770.	476.															
-1.0	4592.	4520.	4094.	3375.	2569.	1805.	1197.	762.	472.															
-3.0	4172.	4077.	3694.	3046.	2349.	1661.	1106.	707.																
-5.0	3436.	3342.	3034.	2518.	1941.	1401.	945.	611.																
-7.0	2589.	2506.	2284.	1913.	1490.	1095.	751.	495.																
-9.0	1804.	1740.	1595.	1348.	1065.	799.	562.																	
-11.0	1178.	1130.	1042.	893.	718.	553.																		
-13.0	734.	703.	652.	579.	475.																			
-15.0																								
-17.0																								
-19.5																								
-22.5																								
-25.5																								
-29.0																								
-33.0																								
-37.5																								
-42.5																								
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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	0.0
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	0.2
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	0.4
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	0.3
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
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
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
31	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
27	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
24	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	0.0	0.0	1.3
21	0.3	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	0.0	2.0
18	0.3	0.3	0.3	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	0.0	0.0	0.0	0.0	2.0
16	0.5	0.5	0.4	0.3	0.3	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	0.0	0.0	0.0	3.0
14	0.8	0.8	0.7	0.5	0.4	0.3	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	0.0	0.0	4.5
12	1.3	1.3	1.1	0.8	0.6	0.5	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	6.7
10	2.1	2.0	1.6	1.3	0.9	0.6	0.4	0.3	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	10.0
8	3.1	2.8	2.3	1.8	1.3	0.9	0.6	0.4	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	13.9
6	4.1	3.7	3.0	2.3	1.6	1.1	0.7	0.4	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	0.0	18.0
4	5.0	4.5	3.7	2.8	2.0	1.3	0.8	0.5	0.3	0.3	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.6
2	5.5	5.0	4.1	3.1	2.2	1.4	0.9	0.6	0.3	0.3	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.8
0	5.5	5.0	4.1	3.1	2.2	1.4	0.9	0.6	0.3	0.3	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.8
-2	5.0	4.5	3.7	2.8	2.0	1.3	0.8	0.5	0.3	0.3	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.7
-4	4.1	3.7	3.1	2.3	1.7	1.1	0.7	0.5	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	0.0	18.1
-6	3.1	2.8	2.3	1.8	1.3	0.9	0.6	0.4	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	14.0
-8	2.1	1.9	1.6	1.3	1.0	0.7	0.5	0.3	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	10.1
-10	1.4	1.3	1.1	0.9	0.7	0.5	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	6.9
-12	0.9	0.8	0.7	0.6	0.4	0.3	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	0.0	0.0	4.7
-14	0.5	0.5	0.4	0.4	0.3	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	0.0	0.0	0.0	3.1
-16	0.3	0.3	0.3	0.2	0.2	0.2	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	0.0	2.1
-18	0.3	0.3	0.2	0.2	0.2	0.2	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	2.0
-21	0.2	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	0.0	1.3
-24	0.1	0.1	0.1	0.1	0.1	0.1	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	0.0	0.0	0.0	0.9
-27	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
-35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.3
-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
-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	0.1
-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	0.0
-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	0.0
-90	47.1	43.0	35.8	27.9	20.4	14.2	9.6	6.5	4.3	4.2	2.6	1.8	1.7	1.2	1.0	0.7	0.5	0.5	0.1	0.0	0.0	0.0	223.0

LUMEN TOTAL THIS PAGE = 223.0



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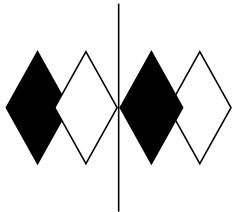
PAGE: 5 OF 7

# LUMEN TABULATION - FIELD ONLY

## 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																						0.0
18																						0.0
16																						0.0
14																						0.0
12	0.8	0.8	0.7																			2.3
10	1.3	1.3	1.1	0.8	0.6																	5.1
8	2.1	2.0	1.6	1.3	0.9	0.6																8.5
6	3.1	2.8	2.3	1.8	1.3	0.9	0.6															12.7
4	4.1	3.7	3.0	2.3	1.6	1.1	0.7															16.7
2	5.0	4.5	3.7	2.8	2.0	1.3	0.8															20.1
0	5.5	5.0	4.1	3.1	2.2	1.4	0.9	0.6														22.7
-2	5.5	5.0	4.1	3.1	2.2	1.4	0.9	0.6														22.8
-4	5.0	4.5	3.7	2.8	2.0	1.3	0.8															20.2
-6	4.1	3.7	3.1	2.3	1.7	1.1	0.7															16.7
-8	3.1	2.8	2.3	1.8	1.3	0.9	0.6															12.8
-10	2.1	1.9	1.6	1.3	1.0	0.7																8.6
-12	1.4	1.3	1.1	0.9	0.7																	5.3
-14	0.9	0.8	0.7	0.6																		2.9
-16																						0.0
-18																						0.0
-21																						0.0
-24																						0.0
-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
	44.0	40.0	33.1	24.9	17.4	10.8	6.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	177.3

LUMEN TOTAL THIS PAGE = 177.3

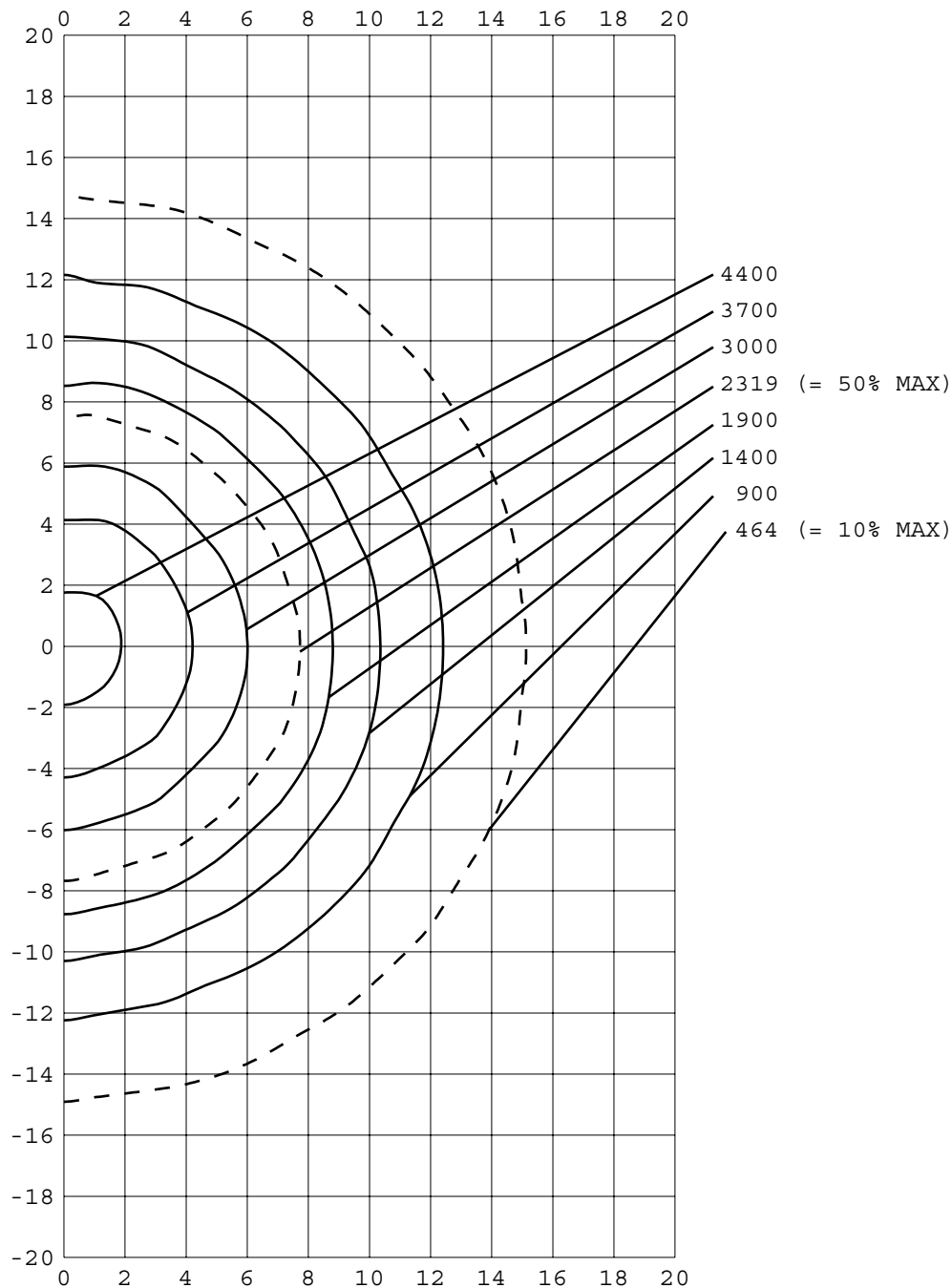


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