

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P244615

Luminaire Tested: **LSR8B15D010 EC8B15850 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244615  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B15D010 EC8B15850 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1586.0 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

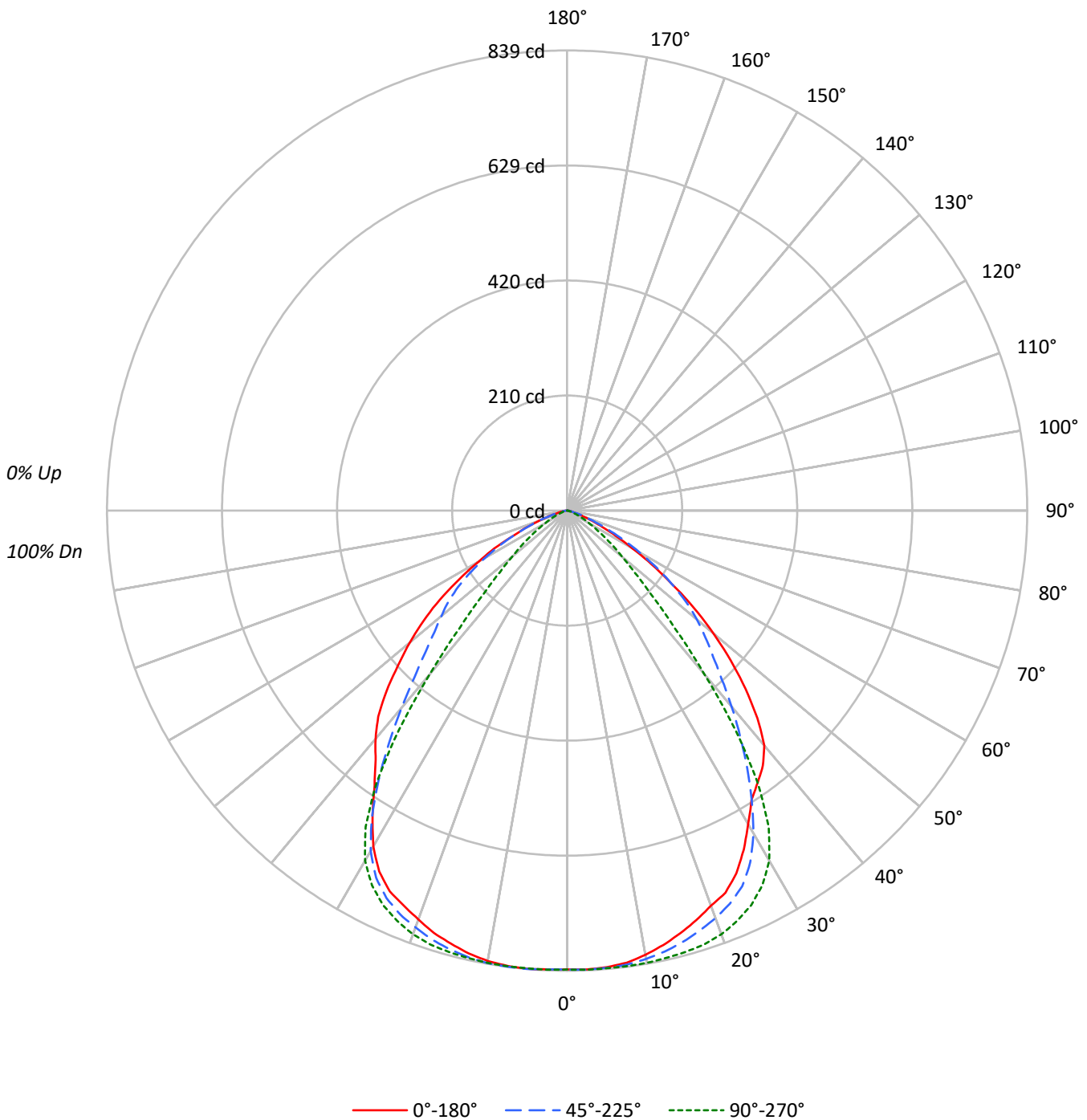
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	25804	25804	25804
5°	25862	25930	25958
10°	25751	26218	26105
15°	25466	26599	26098
20°	25160	26974	26029
25°	24834	27005	26056
30°	23493	26246	25174
35°	22794	22809	23046
40°	22510	15695	21878
45°	20060	9424	20331
50°	16680	6270	17971
55°	12510	4322	15236
60°	8474	2880	11496
65°	5115	1868	7895
70°	2831	1010	4860
75°	1287	429	2514
80°	1119	479	1758
85°	1274	637	1734



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.9	5.0
10°-20°	231.9	14.6
20°-30°	352.0	22.2
30°-40°	369.7	23.3
40°-50°	277.2	17.5
50°-60°	177.9	11.2
60°-70°	76.1	4.8
70°-80°	18.0	1.1
80°-90°	3.3	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	663.8	41.9
0°-40°	1033.5	65.2
0°-60°	1488.6	93.9
0°-90°	1586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1586.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	837	837	837	837	837	
5°	836	837	838	839	839	79
15°	798	814	833	828	818	225
25°	730	756	794	779	766	333
35°	606	572	606	599	612	380
45°	460	376	216	365	466	352
55°	233	233	80	242	283	211
65°	70	83	26	106	108	75
75°	11	13	4	22	21	16
85°	4	2	2	4	5	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	836.8	836.8	836.8	836.8	836.8	836.8	836.8	836.8	836.8	836.8	836.8
2.5°	837.3	838.2	837.7	837.7	837.3	837.7	837.7	838.6	838.6	837.7	837.3
5°	835.5	836.4	836.4	835.5	835.5	837.7	836.4	837.3	837.3	836.8	836.8
7.5°	831.4	831.4	833.2	831.9	831.9	833.2	832.8	833.7	834.6	835.0	835.0
10°	822.4	823.3	823.8	823.8	824.2	825.6	826.5	828.3	829.2	830.1	830.5
12.5°	811.2	812.5	813.0	812.5	813.9	815.7	817.9	820.2	821.5	823.3	824.7
15°	797.7	797.7	798.6	800.0	800.9	803.6	805.8	808.5	812.1	814.4	816.6
17.5°	782.9	783.8	785.1	785.1	787.0	791.4	792.8	796.8	800.9	803.1	807.6
20°	766.7	767.6	769.0	769.9	772.1	775.7	778.4	782.0	786.5	790.5	795.0
22.5°	754.2	752.4	753.3	754.2	756.4	759.6	762.7	767.2	771.7	775.7	780.2
25°	729.9	730.4	731.7	732.6	735.3	738.0	741.6	747.0	751.0	755.5	760.4
27.5°	697.1	697.6	699.8	699.8	702.1	706.5	708.8	713.3	718.7	723.2	729.0
30°	659.8	660.7	660.7	662.5	663.9	666.1	668.4	672.9	675.6	679.6	687.7
32.5°	625.7	626.6	626.1	625.7	624.3	623.9	623.4	624.3	625.2	626.6	629.7
35°	605.5	603.2	601.4	598.3	594.7	590.2	586.2	580.8	575.8	571.8	567.3
37.5°	586.2	585.7	583.0	578.5	571.3	563.3	553.8	542.1	530.5	517.9	505.8
40°	559.2	557.9	555.6	549.3	541.2	531.4	518.8	504.4	485.5	466.2	446.5
42.5°	513.4	513.8	511.2	506.2	498.6	489.1	476.1	460.4	440.2	417.3	391.7
45°	460.0	460.0	459.1	455.0	449.6	442.0	432.1	419.1	399.3	376.0	348.6
47.5°	404.3	404.7	403.4	402.5	400.2	395.3	388.1	378.2	364.3	341.8	314.4
50°	347.7	347.7	349.9	349.5	349.5	347.7	344.5	338.7	326.5	308.6	283.0
52.5°	291.1	292.0	293.3	295.1	297.3	300.9	297.3	294.7	287.0	273.1	251.1
55°	232.7	233.6	235.8	239.0	241.7	245.3	246.1	246.1	242.1	232.7	216.1
57.5°	182.8	181.5	183.3	186.0	189.6	193.1	195.8	199.0	198.5	192.2	178.8
60°	137.4	137.9	139.2	141.9	144.6	147.8	151.4	154.1	155.4	152.3	143.7
62.5°	100.2	100.2	102.0	104.7	106.0	110.5	112.7	114.1	115.4	115.0	109.6
65°	70.1	71.0	71.9	73.2	74.6	77.3	78.6	81.3	82.2	82.6	78.6
67.5°	49.4	48.1	49.0	49.9	51.2	53.0	55.7	55.7	57.0	57.0	54.3
70°	31.4	31.4	31.9	33.2	34.1	34.6	35.5	36.4	37.7	37.3	37.3
72.5°	21.1	20.7	21.1	21.6	22.0	23.4	23.4	23.8	24.7	25.2	23.4
75°	10.8	11.2	12.1	11.7	13.0	12.1	12.6	13.9	13.5	12.6	12.6
77.5°	9.0	9.0	9.0	8.5	9.4	9.4	9.0	9.9	9.4	9.4	9.0
80°	6.3	6.7	6.3	5.8	6.3	5.8	5.8	5.8	5.8	5.8	5.4
82.5°	4.9	4.0	4.5	4.0	4.5	4.5	4.0	3.6	3.6	4.0	3.6
85°	3.6	2.7	3.1	3.1	2.7	2.7	2.7	2.7	2.7	2.2	2.2
87.5°	2.2	1.4	1.4	1.4	1.8	1.8	1.8	1.4	1.8	1.8	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	836.8	836.8	836.8	836.8	836.8	836.8	836.8	836.8	836.8	836.8	836.8
2.5°	838.2	837.7	838.6	838.2	838.2	837.7	838.2	837.7	838.6	836.8	837.3
5°	838.2	837.3	837.7	838.2	838.6	837.7	837.7	837.7	838.6	837.7	838.2
7.5°	836.4	835.9	837.3	838.2	837.7	837.3	838.2	837.7	838.6	838.2	839.0
10°	832.8	833.2	834.1	835.5	835.9	836.4	837.3	837.3	838.6	836.8	837.7
12.5°	827.4	829.2	831.4	832.3	834.1	834.1	835.0	835.5	836.4	835.9	837.3
15°	820.6	822.9	825.6	827.8	830.1	831.4	832.8	833.2	834.6	833.2	833.7
17.5°	812.5	815.2	819.3	822.0	825.6	826.9	828.7	829.6	831.0	830.1	830.5
20°	801.3	804.5	809.0	813.0	815.2	818.4	820.6	822.0	822.9	822.0	822.4
22.5°	785.6	790.1	795.9	799.1	803.6	806.3	806.7	809.9	812.1	809.9	810.8
25°	767.2	771.7	776.2	782.9	787.0	790.1	793.2	793.7	795.9	795.5	795.0
27.5°	736.6	742.5	750.1	755.5	760.9	765.8	769.4	770.3	772.6	771.7	772.1
30°	694.9	701.2	708.3	716.9	724.5	729.4	733.9	737.1	739.3	738.0	737.5
32.5°	635.6	641.9	649.5	658.0	667.0	674.2	679.6	683.6	686.3	685.4	683.2
35°	567.8	569.5	574.5	581.2	588.9	596.5	601.4	605.9	609.1	610.0	610.0
37.5°	498.1	492.3	488.7	488.7	493.2	496.3	500.8	503.5	508.5	510.3	511.6
40°	430.8	417.3	404.7	395.3	389.0	388.5	388.5	389.9	394.4	400.2	405.6
42.5°	370.6	349.0	329.7	312.2	299.6	292.4	289.3	289.7	293.3	298.7	307.7
45°	322.5	295.6	271.3	250.2	233.1	221.9	216.5	216.1	218.7	225.0	234.9
47.5°	285.2	256.5	229.1	204.8	186.4	174.3	168.0	166.2	168.0	173.8	185.5
50°	254.2	224.6	196.3	171.1	151.4	138.8	133.0	130.7	133.0	137.9	149.6
52.5°	225.5	194.9	168.4	144.2	123.1	112.3	106.0	104.7	106.0	111.8	121.3
55°	192.2	166.2	140.1	115.9	97.5	86.7	81.7	80.4	81.7	87.1	97.0
57.5°	159.5	137.0	114.1	92.1	76.4	66.9	62.4	60.6	63.8	67.4	79.1
60°	128.9	110.9	91.6	72.3	59.3	50.8	47.2	46.7	47.6	52.1	60.2
62.5°	101.1	86.2	71.0	55.2	44.5	40.9	36.4	35.9	36.8	39.5	45.8
65°	72.8	63.3	51.7	40.4	31.9	26.9	25.2	25.6	26.5	28.3	34.1
67.5°	50.8	44.0	35.9	28.3	22.0	19.8	18.0	17.5	18.0	21.1	24.3
70°	34.1	30.1	24.3	21.6	15.3	12.1	12.6	11.2	13.0	13.0	15.7
72.5°	22.5	19.8	16.2	12.6	10.8	8.5	8.5	8.1	9.0	9.4	11.7
75°	11.7	9.0	9.0	6.3	4.5	2.2	4.0	3.6	3.1	3.6	4.5
77.5°	8.1	6.7	6.3	4.9	4.5	3.6	3.6	3.6	3.6	4.0	4.5
80°	4.9	4.9	3.6	3.1	2.7	2.2	2.7	2.7	2.7	2.7	3.1
82.5°	3.1	2.7	2.7	2.2	2.2	1.8	1.8	1.8	1.8	1.8	2.7
85°	2.7	1.8	1.8	1.4	1.8	3.1	1.4	1.8	1.8	1.8	1.4
87.5°	0.9	1.4	1.4	1.4	0.9	0.5	0.9	1.4	1.4	2.2	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	836.8	836.8	836.8	836.8	836.8	836.8	836.8	836.8	836.8	836.8	836.8
2.5°	838.2	838.6	838.6	838.2	838.2	837.3	839.0	837.7	838.2	839.9	838.6
5°	839.0	839.5	839.5	839.0	839.0	839.0	839.5	839.5	839.0	838.6	839.5
7.5°	840.8	840.4	840.4	839.5	839.5	838.6	839.5	838.2	839.0	838.2	839.5
10°	838.6	839.0	838.6	838.2	838.2	837.7	837.7	836.4	836.8	835.5	836.4
12.5°	837.3	836.8	836.8	835.9	835.0	834.1	833.7	832.3	832.3	829.2	830.5
15°	833.7	834.1	832.8	831.0	830.1	827.8	826.9	825.1	823.3	821.1	821.5
17.5°	830.5	829.2	827.4	825.6	822.0	820.2	818.4	815.7	814.8	812.1	811.2
20°	821.1	820.2	817.9	814.8	812.5	808.5	806.7	804.0	801.8	799.1	797.7
22.5°	809.0	808.1	805.4	802.2	798.6	796.8	795.0	790.1	787.8	785.1	784.7
25°	793.7	792.3	789.6	786.1	784.2	779.3	777.5	773.9	773.0	770.3	769.9
27.5°	770.3	768.5	765.4	760.9	757.8	754.6	752.8	750.1	749.2	746.5	746.1
30°	735.3	733.0	726.8	725.0	719.6	716.4	716.4	712.8	713.3	711.5	711.5
32.5°	680.0	676.5	671.5	667.9	664.3	662.5	662.5	661.2	662.1	662.1	663.0
35°	606.8	601.9	599.2	596.9	596.9	598.7	604.1	605.5	608.2	610.4	612.2
37.5°	512.9	512.5	515.7	518.3	525.1	532.7	542.1	550.2	557.9	563.3	568.6
40°	411.4	422.7	431.7	444.2	454.6	469.4	486.5	500.4	513.4	522.8	532.7
42.5°	321.2	335.5	354.4	372.8	391.2	411.4	433.9	453.2	470.3	483.3	493.6
45°	250.2	269.9	292.9	316.2	340.0	365.2	388.5	408.3	426.3	439.7	450.1
47.5°	201.7	223.2	249.3	274.9	301.8	328.3	354.4	371.5	386.3	397.1	406.5
50°	166.6	189.6	217.0	246.1	273.1	299.6	322.1	338.7	350.8	360.2	366.1
52.5°	139.2	163.5	192.7	221.9	248.8	273.1	293.3	305.9	315.8	322.5	327.9
55°	115.0	138.3	165.7	193.1	219.6	242.5	259.2	268.6	276.2	280.3	283.4
57.5°	93.9	115.4	140.6	165.7	188.7	207.5	220.5	230.0	233.6	236.7	236.3
60°	73.7	93.9	116.8	138.3	158.1	173.4	182.8	188.2	190.9	192.2	191.3
62.5°	57.9	76.4	93.9	112.7	127.1	140.1	149.1	149.1	150.5	150.9	152.3
65°	43.1	57.0	72.3	86.2	97.9	106.5	111.4	112.7	114.5	114.1	113.2
67.5°	31.9	42.2	53.4	63.8	71.9	77.3	80.8	84.0	83.5	82.6	82.2
70°	22.0	28.8	38.6	44.9	50.8	56.2	57.0	57.5	57.9	58.4	57.5
72.5°	15.3	20.2	25.6	31.0	34.6	36.8	39.1	39.5	39.5	39.5	39.1
75°	7.6	10.3	15.3	17.5	20.7	21.6	23.4	23.4	24.7	22.9	22.5
77.5°	6.7	8.1	10.8	12.6	13.9	15.3	15.7	17.1	16.6	15.7	16.2
80°	4.0	4.9	6.7	7.6	9.4	9.9	10.3	10.8	10.3	10.8	10.8
82.5°	3.1	3.6	4.5	4.5	5.8	5.8	6.3	6.3	6.7	6.7	6.7
85°	1.8	3.1	2.7	5.4	3.6	3.6	4.5	5.4	4.5	4.5	5.4
87.5°	1.8	1.8	1.4	1.8	1.8	1.8	2.2	2.7	2.7	3.1	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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CATALOG NUMBER: LSR8B15D010 EC8B15850 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	836.8	836.8	836.8	836.8
2.5°	838.2	839.0	837.7	837.3
5°	839.5	839.5	838.6	838.6
7.5°	839.5	839.5	838.2	837.3
10°	835.9	835.9	834.6	833.7
12.5°	829.2	829.2	828.7	827.4
15°	820.6	820.6	818.8	817.5
17.5°	809.0	809.9	807.6	807.6
20°	796.4	795.9	794.1	793.2
22.5°	783.4	782.5	782.0	779.3
25°	769.4	768.5	767.2	765.8
27.5°	745.6	745.2	743.8	742.0
30°	709.2	708.8	707.0	707.0
32.5°	662.1	661.6	659.8	660.3
35°	613.1	614.9	614.0	612.2
37.5°	572.2	573.6	574.5	573.6
40°	538.1	542.1	542.6	543.5
42.5°	501.7	507.1	508.9	509.8
45°	458.1	463.1	467.1	466.2
47.5°	413.7	417.3	420.9	418.2
50°	371.0	373.3	374.6	374.6
52.5°	330.6	330.6	330.1	330.6
55°	284.3	284.3	282.5	283.4
57.5°	235.8	236.7	235.4	233.1
60°	190.9	188.7	187.8	186.4
62.5°	148.7	148.7	145.5	149.6
65°	111.4	110.0	108.7	108.2
67.5°	80.8	80.4	79.1	78.6
70°	57.0	55.2	54.8	53.9
72.5°	38.2	38.2	37.3	37.3
75°	23.4	21.1	20.7	21.1
77.5°	16.2	15.7	15.7	15.3
80°	10.8	10.3	11.2	9.9
82.5°	6.7	7.2	6.7	7.2
85°	4.5	5.4	4.9	4.9
87.5°	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)