

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: P244633

Luminaire Tested: **LD8B15D010 ER8B15935 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244633  
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: LD8B15D010 ER8B15935 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1335.0 lumens  
Efficiency: N/A  
Efficacy: 92.7 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

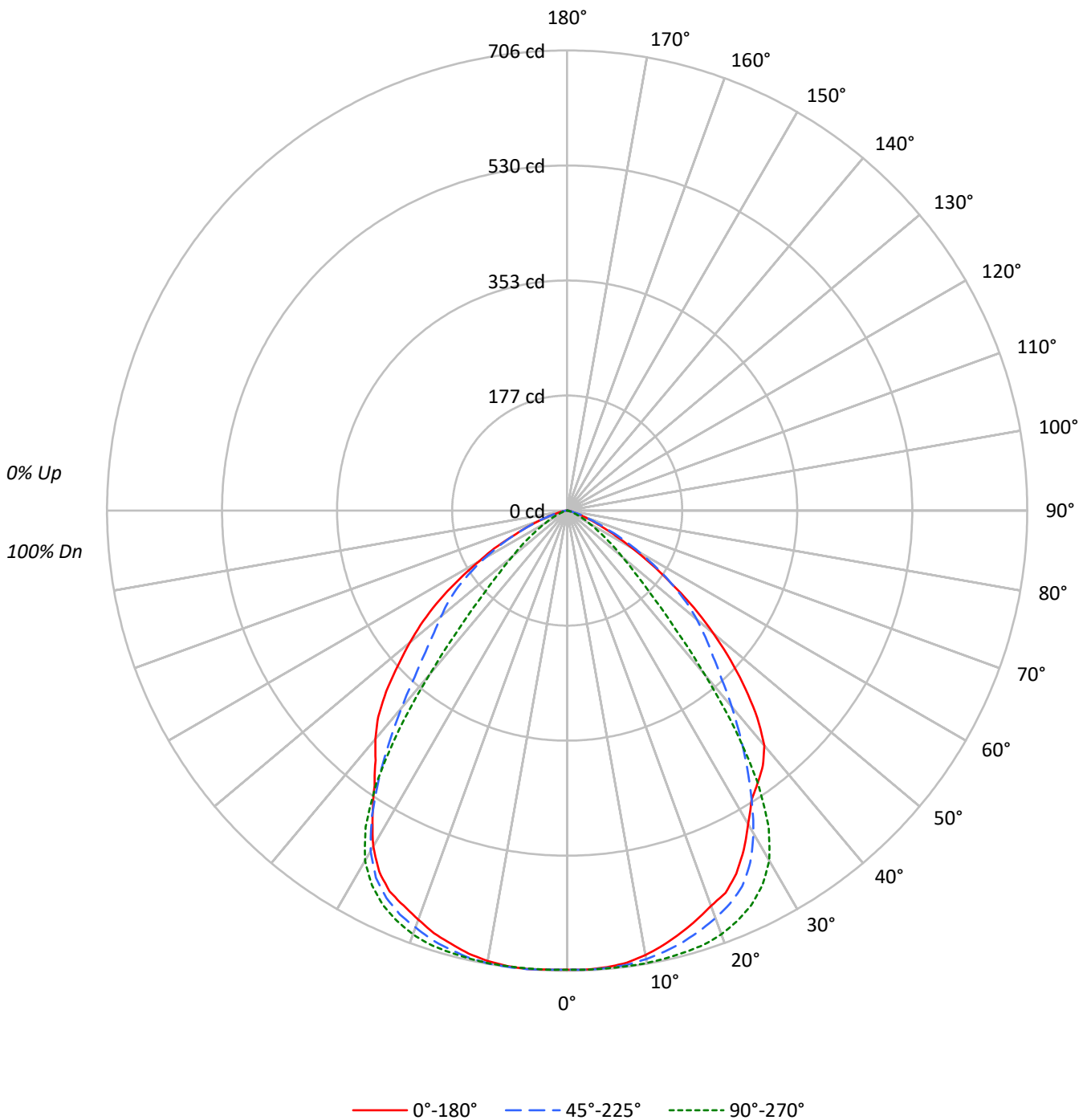
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	21721	21721	21721
5°	21767	21826	21851
10°	21677	22069	21972
15°	21437	22388	21967
20°	21179	22705	21911
25°	20904	22732	21932
30°	19776	22090	21190
35°	19187	19199	19398
40°	18948	13211	18416
45°	16885	7933	17117
50°	14037	5277	15126
55°	10526	3640	12827
60°	7136	2424	9676
65°	4305	1576	6647
70°	2389	857	4093
75°	1084	357	2121
80°	941	408	1474
85°	1061	531	1486



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.2	5.0
10°-20°	195.2	14.6
20°-30°	296.3	22.2
30°-40°	311.2	23.3
40°-50°	233.3	17.5
50°-60°	149.7	11.2
60°-70°	64.0	4.8
70°-80°	15.1	1.1
80°-90°	2.8	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°	558.8	41.9
0°-40°	870.0	65.2
0°-60°	1253.0	93.9
0°-90°	1335.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1335.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	704	704	704	704	704	
5°	703	704	705	706	706	67
15°	672	686	701	697	688	189
25°	614	636	668	656	645	281
35°	510	481	510	504	515	320
45°	387	316	182	307	392	296
55°	196	196	68	204	239	178
65°	59	70	22	90	91	63
75°	9	11	3	18	18	13
85°	3	2	2	3	4	3
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°	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4
2.5°	704.8	705.5	705.1	705.1	704.8	705.1	705.1	705.9	705.9	705.1	704.8
5°	703.2	704.0	704.0	703.2	703.2	705.1	704.0	704.8	704.8	704.4	704.4
7.5°	699.8	699.8	701.3	700.2	700.2	701.3	701.0	701.7	702.5	702.9	702.9
10°	692.3	693.0	693.4	693.4	693.8	694.9	695.7	697.2	697.9	698.7	699.1
12.5°	682.8	684.0	684.3	684.0	685.1	686.6	688.5	690.4	691.5	693.0	694.2
15°	671.5	671.5	672.2	673.4	674.1	676.4	678.3	680.6	683.6	685.5	687.4
17.5°	659.0	659.8	660.9	660.9	662.4	666.2	667.3	670.7	674.1	676.0	679.8
20°	645.4	646.1	647.3	648.0	649.9	653.0	655.2	658.2	662.0	665.4	669.2
22.5°	634.8	633.3	634.0	634.8	636.7	639.3	642.0	645.8	649.6	653.0	656.7
25°	614.4	614.8	615.9	616.7	618.9	621.2	624.2	628.8	632.2	635.9	640.1
27.5°	586.8	587.2	589.1	589.1	590.9	594.7	596.6	600.4	604.9	608.7	613.6
30°	555.4	556.2	556.2	557.7	558.8	560.7	562.6	566.4	568.6	572.0	578.9
32.5°	526.7	527.4	527.0	526.7	525.5	525.2	524.8	525.5	526.3	527.4	530.1
35°	509.7	507.8	506.3	503.6	500.6	496.8	493.4	488.9	484.7	481.3	477.5
37.5°	493.4	493.0	490.8	487.0	480.9	474.1	466.2	456.3	446.5	435.9	425.7
40°	470.7	469.6	467.7	462.4	455.6	447.3	436.7	424.6	408.7	392.5	375.8
42.5°	432.1	432.5	430.3	426.1	419.7	411.7	400.8	387.5	370.5	351.2	329.7
45°	387.2	387.2	386.4	383.0	378.5	372.0	363.7	352.8	336.1	316.5	293.4
47.5°	340.3	340.7	339.5	338.8	336.9	332.7	326.7	318.3	306.6	287.7	264.7
50°	292.6	292.6	294.5	294.1	294.1	292.6	290.0	285.1	274.9	259.7	238.2
52.5°	245.0	245.8	246.9	248.4	250.3	253.3	250.3	248.0	241.6	229.9	211.4
55°	195.8	196.6	198.5	201.1	203.4	206.4	207.2	207.2	203.8	195.8	181.9
57.5°	153.9	152.7	154.3	156.5	159.6	162.6	164.8	167.5	167.1	161.8	150.5
60°	115.7	116.1	117.2	119.5	121.7	124.4	127.4	129.7	130.8	128.2	121.0
62.5°	84.3	84.3	85.8	88.1	89.2	93.0	94.9	96.0	97.2	96.8	92.3
65°	59.0	59.7	60.5	61.6	62.8	65.0	66.2	68.4	69.2	69.6	66.2
67.5°	41.6	40.5	41.2	42.0	43.1	44.6	46.9	46.9	48.0	48.0	45.7
70°	26.5	26.5	26.8	28.0	28.7	29.1	29.9	30.6	31.8	31.4	31.4
72.5°	17.8	17.4	17.8	18.2	18.5	19.7	19.7	20.0	20.8	21.2	19.7
75°	9.1	9.5	10.2	9.8	11.0	10.2	10.6	11.7	11.3	10.6	10.6
77.5°	7.6	7.6	7.6	7.2	7.9	7.9	7.6	8.3	7.9	7.9	7.6
80°	5.3	5.7	5.3	4.9	5.3	4.9	4.9	4.9	4.9	4.9	4.5
82.5°	4.2	3.4	3.8	3.4	3.8	3.8	3.4	3.0	3.0	3.4	3.0
85°	3.0	2.3	2.6	2.6	2.3	2.3	2.3	2.3	2.3	1.9	1.9
87.5°	1.9	1.1	1.1	1.1	1.5	1.5	1.5	1.1	1.5	1.5	0.8
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4
2.5°	705.5	705.1	705.9	705.5	705.5	705.1	705.5	705.1	705.9	704.4	704.8
5°	705.5	704.8	705.1	705.5	705.9	705.1	705.1	705.1	705.9	705.1	705.5
7.5°	704.0	703.6	704.8	705.5	705.1	704.8	705.5	705.1	705.9	705.5	706.3
10°	701.0	701.3	702.1	703.2	703.6	704.0	704.8	704.8	705.9	704.4	705.1
12.5°	696.4	697.9	699.8	700.6	702.1	702.1	702.9	703.2	704.0	703.6	704.8
15°	690.8	692.7	694.9	696.8	698.7	699.8	701.0	701.3	702.5	701.3	701.7
17.5°	684.0	686.2	689.6	691.9	694.9	696.1	697.6	698.3	699.5	698.7	699.1
20°	674.5	677.2	680.9	684.3	686.2	688.9	690.8	691.9	692.7	691.9	692.3
22.5°	661.3	665.1	670.0	672.6	676.4	678.7	679.0	681.7	683.6	681.7	682.4
25°	645.8	649.6	653.3	659.0	662.4	665.1	667.7	668.1	670.0	669.6	669.2
27.5°	620.1	625.0	631.4	635.9	640.5	644.6	647.7	648.4	650.3	649.6	649.9
30°	584.9	590.2	596.2	603.4	609.9	614.0	617.8	620.4	622.3	621.2	620.8
32.5°	535.0	540.3	546.7	553.9	561.5	567.5	572.0	575.4	577.7	577.0	575.1
35°	477.9	479.4	483.6	489.2	495.7	502.1	506.3	510.0	512.7	513.4	513.4
37.5°	419.3	414.4	411.4	411.4	415.1	417.8	421.6	423.8	428.0	429.5	430.6
40°	362.6	351.2	340.7	332.7	327.4	327.0	327.0	328.2	332.0	336.9	341.4
42.5°	311.9	293.8	277.5	262.8	252.2	246.1	243.5	243.9	246.9	251.4	259.0
45°	271.5	248.8	228.4	210.6	196.2	186.8	182.2	181.9	184.1	189.4	197.7
47.5°	240.1	215.9	192.8	172.4	156.9	146.7	141.4	139.9	141.4	146.3	156.1
50°	214.0	189.0	165.2	144.0	127.4	116.8	111.9	110.0	111.9	116.1	125.9
52.5°	189.8	164.1	141.8	121.4	103.6	94.5	89.2	88.1	89.2	94.1	102.1
55°	161.8	139.9	118.0	97.5	82.0	73.0	68.8	67.7	68.8	73.4	81.7
57.5°	134.2	115.3	96.0	77.5	64.3	56.3	52.6	51.0	53.7	56.7	66.5
60°	108.5	93.4	77.1	60.9	49.9	42.7	39.7	39.3	40.1	43.9	50.7
62.5°	85.1	72.6	59.7	46.5	37.4	34.4	30.6	30.3	31.0	33.3	38.6
65°	61.3	53.3	43.5	34.0	26.8	22.7	21.2	21.6	22.3	23.8	28.7
67.5°	42.7	37.1	30.3	23.8	18.5	16.6	15.1	14.7	15.1	17.8	20.4
70°	28.7	25.3	20.4	18.2	12.9	10.2	10.6	9.5	11.0	11.0	13.2
72.5°	18.9	16.6	13.6	10.6	9.1	7.2	7.2	6.8	7.6	7.9	9.8
75°	9.8	7.6	7.6	5.3	3.8	1.9	3.4	3.0	2.6	3.0	3.8
77.5°	6.8	5.7	5.3	4.2	3.8	3.0	3.0	3.0	3.0	3.4	3.8
80°	4.2	4.2	3.0	2.6	2.3	1.9	2.3	2.3	2.3	2.3	2.6
82.5°	2.6	2.3	2.3	1.9	1.9	1.5	1.5	1.5	1.5	1.5	2.3
85°	2.3	1.5	1.5	1.1	1.5	2.6	1.1	1.5	1.5	1.5	1.1
87.5°	0.8	1.1	1.1	1.1	0.8	0.4	0.8	1.1	1.1	1.9	1.5
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°	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4
2.5°	705.5	705.9	705.9	705.5	705.5	704.8	706.3	705.1	705.5	707.0	705.9
5°	706.3	706.6	706.6	706.3	706.3	706.3	706.6	706.6	706.3	705.9	706.6
7.5°	707.8	707.4	707.4	706.6	706.6	705.9	706.6	705.5	706.3	705.5	706.6
10°	705.9	706.3	705.9	705.5	705.5	705.1	705.1	704.0	704.4	703.2	704.0
12.5°	704.8	704.4	704.4	703.6	702.9	702.1	701.7	700.6	700.6	697.9	699.1
15°	701.7	702.1	701.0	699.5	698.7	696.8	696.1	694.5	693.0	691.1	691.5
17.5°	699.1	697.9	696.4	694.9	691.9	690.4	688.9	686.6	685.8	683.6	682.8
20°	691.1	690.4	688.5	685.8	684.0	680.6	679.0	676.8	674.9	672.6	671.5
22.5°	680.9	680.2	677.9	675.3	672.2	670.7	669.2	665.1	663.2	660.9	660.5
25°	668.1	666.9	664.7	661.7	660.1	656.0	654.5	651.4	650.7	648.4	648.0
27.5°	648.4	646.9	644.3	640.5	637.8	635.2	633.7	631.4	630.6	628.4	628.0
30°	618.9	617.0	611.7	610.2	605.7	603.0	603.0	600.0	600.4	598.9	598.9
32.5°	572.4	569.4	565.2	562.2	559.2	557.7	557.7	556.5	557.3	557.3	558.1
35°	510.8	506.6	504.4	502.5	502.5	504.0	508.5	509.7	511.9	513.8	515.3
37.5°	431.8	431.4	434.0	436.3	442.0	448.4	456.3	463.2	469.6	474.1	478.7
40°	346.3	355.8	363.3	373.9	382.6	395.1	409.5	421.2	432.1	440.1	448.4
42.5°	270.3	282.4	298.3	313.8	329.3	346.3	365.2	381.5	395.9	406.8	415.5
45°	210.6	227.2	246.5	266.2	286.2	307.4	327.0	343.7	358.8	370.1	378.8
47.5°	169.8	187.9	209.8	231.4	254.1	276.4	298.3	312.7	325.1	334.2	342.2
50°	140.3	159.6	182.6	207.2	229.9	252.2	271.1	285.1	295.3	303.2	308.1
52.5°	117.2	137.6	162.2	186.8	209.5	229.9	246.9	257.5	265.8	271.5	276.0
55°	96.8	116.5	139.5	162.6	184.9	204.2	218.2	226.1	232.5	235.9	238.6
57.5°	79.0	97.2	118.3	139.5	158.8	174.7	185.6	193.6	196.6	199.3	198.9
60°	62.0	79.0	98.3	116.5	133.1	145.9	153.9	158.4	160.7	161.8	161.1
62.5°	48.8	64.3	79.0	94.9	107.0	118.0	125.5	125.5	126.7	127.0	128.2
65°	36.3	48.0	60.9	72.6	82.4	89.6	93.8	94.9	96.4	96.0	95.3
67.5°	26.8	35.5	45.0	53.7	60.5	65.0	68.1	70.7	70.3	69.6	69.2
70°	18.5	24.2	32.5	37.8	42.7	47.3	48.0	48.4	48.8	49.2	48.4
72.5°	12.9	17.0	21.6	26.1	29.1	31.0	32.9	33.3	33.3	33.3	32.9
75°	6.4	8.7	12.9	14.7	17.4	18.2	19.7	19.7	20.8	19.3	18.9
77.5°	5.7	6.8	9.1	10.6	11.7	12.9	13.2	14.4	14.0	13.2	13.6
80°	3.4	4.2	5.7	6.4	7.9	8.3	8.7	9.1	8.7	9.1	9.1
82.5°	2.6	3.0	3.8	3.8	4.9	4.9	5.3	5.3	5.7	5.7	5.7
85°	1.5	2.6	2.3	4.5	3.0	3.0	3.8	4.5	3.8	3.8	4.5
87.5°	1.5	1.5	1.1	1.5	1.5	1.5	1.9	2.3	2.3	2.6	2.3
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: LD8B15D010 ER8B15935 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	704.4	704.4	704.4	704.4
2.5°	705.5	706.3	705.1	704.8
5°	706.6	706.6	705.9	705.9
7.5°	706.6	706.6	705.5	704.8
10°	703.6	703.6	702.5	701.7
12.5°	697.9	697.9	697.6	696.4
15°	690.8	690.8	689.2	688.1
17.5°	680.9	681.7	679.8	679.8
20°	670.3	670.0	668.5	667.7
22.5°	659.4	658.6	658.2	656.0
25°	647.7	646.9	645.8	644.6
27.5°	627.6	627.2	626.1	624.6
30°	597.0	596.6	595.1	595.1
32.5°	557.3	556.9	555.4	555.8
35°	516.1	517.6	516.8	515.3
37.5°	481.7	482.8	483.6	482.8
40°	452.9	456.3	456.7	457.5
42.5°	422.3	426.9	428.4	429.1
45°	385.6	389.8	393.2	392.5
47.5°	348.2	351.2	354.3	352.0
50°	312.3	314.2	315.3	315.3
52.5°	278.3	278.3	277.9	278.3
55°	239.3	239.3	237.8	238.6
57.5°	198.5	199.3	198.1	196.2
60°	160.7	158.8	158.0	156.9
62.5°	125.1	125.1	122.5	125.9
65°	93.8	92.6	91.5	91.1
67.5°	68.1	67.7	66.5	66.2
70°	48.0	46.5	46.1	45.4
72.5°	32.1	32.1	31.4	31.4
75°	19.7	17.8	17.4	17.8
77.5°	13.6	13.2	13.2	12.9
80°	9.1	8.7	9.5	8.3
82.5°	5.7	6.1	5.7	6.1
85°	3.8	4.5	4.2	4.2
87.5°	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)