

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: P244098

Luminaire Tested: **LSR8B10D010 EC8B10835 8LBSWOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244098  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B10D010 EC8B10835 8LBSW0LI  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1205.0 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

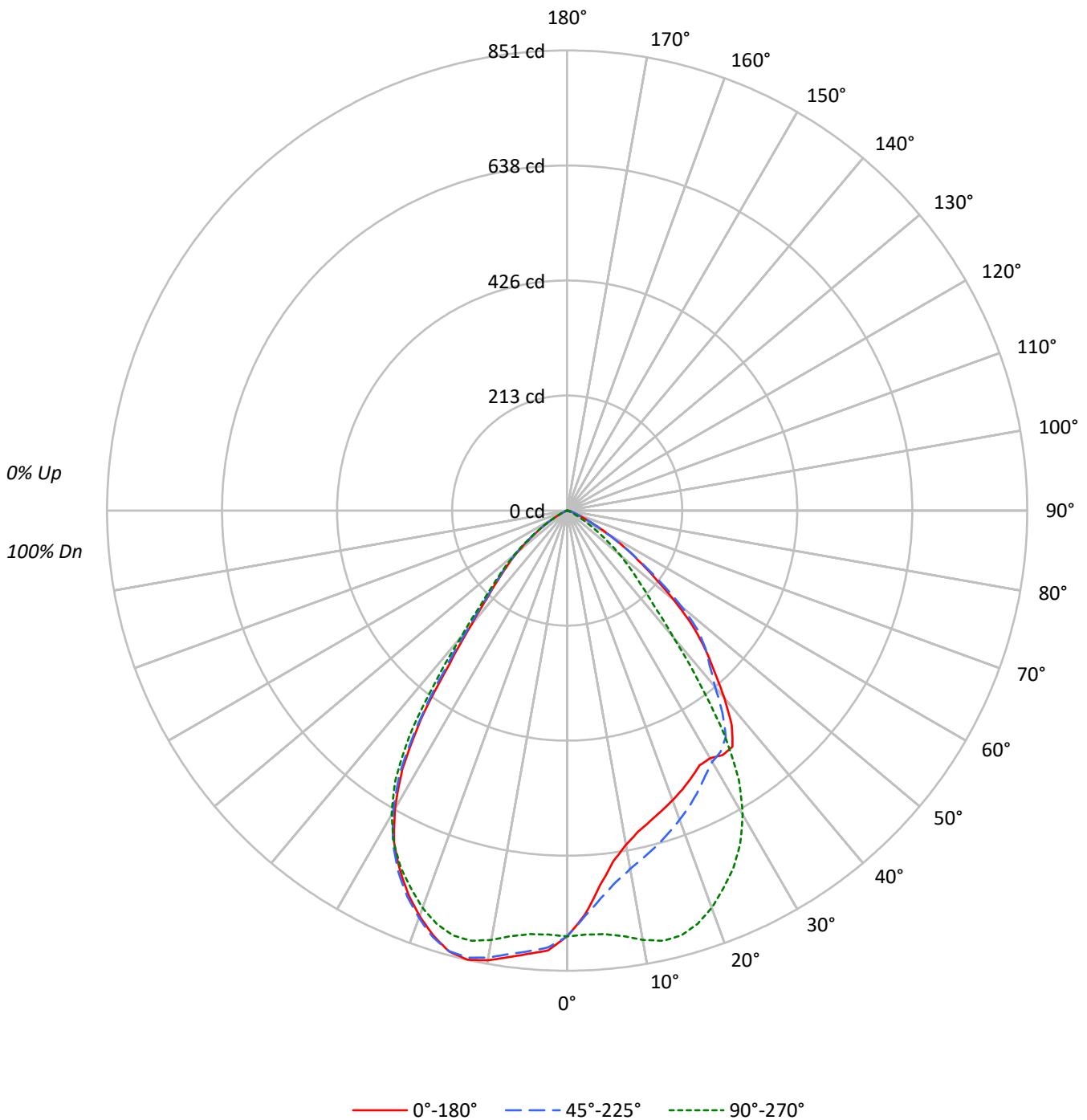
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67					67			
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60					60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39					39			

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

	0°	90°	180°
0°	24274	24274	24274
5°	21538	24336	25475
10°	19636	25237	26443
15°	18976	25977	26947
20°	18705	25655	26187
25°	18523	24770	24926
30°	18825	23116	22689
35°	20064	19131	17745
40°	18183	12245	11090
45°	15695	8377	7802
50°	12382	6112	5757
55°	8596	3758	3538
60°	5470	1900	1696
65°	2729	752	576
70°	1515	370	207
75°	1084	274	95
80°	888	178	36
85°	955	142	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.4	6.1
10°-20°	211.9	17.6
20°-30°	307.6	25.5
30°-40°	302.9	25.1
40°-50°	189.9	15.8
50°-60°	91.6	7.6
60°-70°	22.2	1.8
70°-80°	4.5	0.4
80°-90°	1.0	0.1
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°	592.9	49.2
0°-40°	895.8	74.3
0°-60°	1177.3	97.7
0°-90°	1205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1205.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	787	787	787	787	787	
5°	696	719	786	818	823	64
15°	594	641	814	844	844	168
25°	544	573	728	738	733	252
35°	533	511	508	479	471	322
45°	360	362	192	184	179	275
55°	160	165	70	69	66	147
65°	37	37	10	9	8	43
75°	9	8	2	1	1	10
85°	3	2	0	0	0	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2
2.5°	748.3	743.6	734.7	745.4	745.4	739.4	751.4	744.2	750.0	759.1	751.0
5°	695.8	691.9	684.4	695.8	697.2	691.6	706.1	700.7	709.2	720.4	719.4
7.5°	654.2	649.2	642.4	654.2	656.5	652.8	666.6	664.1	675.3	689.8	692.3
10°	627.1	621.9	615.9	626.7	628.4	625.9	639.9	638.5	649.5	666.2	672.8
12.5°	607.9	603.5	596.9	608.3	610.2	606.6	619.9	619.3	630.6	648.2	656.5
15°	594.4	589.3	583.3	593.0	595.5	591.5	604.2	602.9	614.5	631.9	641.2
17.5°	581.8	577.1	570.9	580.0	582.4	578.3	590.7	588.6	598.6	615.1	624.6
20°	570.0	564.9	559.3	568.6	570.0	565.3	577.7	575.0	583.9	599.2	608.5
22.5°	557.8	552.4	546.7	555.8	557.2	552.4	563.8	560.7	569.0	582.9	591.3
25°	544.4	539.4	533.6	542.1	543.3	538.2	550.2	546.2	553.5	565.7	572.7
27.5°	530.9	526.2	519.8	528.5	529.1	524.1	535.1	529.7	535.7	546.9	552.9
30°	528.7	523.3	516.7	523.7	523.9	517.5	527.8	521.4	524.7	533.0	536.5
32.5°	535.9	530.5	523.7	529.5	528.9	521.8	531.8	523.9	524.9	529.3	528.5
35°	533.0	526.6	518.5	524.7	524.7	516.3	526.2	516.9	515.8	516.5	511.3
37.5°	500.1	495.2	487.5	493.5	492.9	486.5	494.1	486.5	483.0	481.5	472.2
40°	451.7	445.7	439.9	446.3	447.0	440.1	450.1	441.4	440.3	436.2	425.2
42.5°	402.7	400.6	395.0	400.4	403.3	397.5	405.8	401.7	402.3	401.3	390.9
45°	359.9	356.4	352.2	358.4	360.3	357.4	365.7	363.2	365.7	370.8	362.4
47.5°	313.8	310.2	305.7	312.3	315.6	310.2	317.3	316.5	320.2	329.1	328.2
50°	258.1	255.6	254.8	255.6	257.7	255.2	260.2	260.4	262.9	275.1	275.9
52.5°	204.3	203.7	200.8	203.5	203.5	199.6	204.6	202.3	204.8	213.0	218.4
55°	159.9	159.3	157.4	159.9	157.2	155.7	157.2	154.9	153.1	159.5	165.1
57.5°	124.5	122.4	120.2	121.2	121.0	117.9	119.5	116.9	115.4	117.7	122.7
60°	88.7	88.1	86.0	87.1	87.9	85.6	87.3	86.0	83.6	85.4	85.6
62.5°	58.9	59.4	58.1	58.3	57.7	57.3	58.3	58.9	58.3	57.5	57.7
65°	37.4	37.2	37.0	37.2	37.6	36.8	37.4	37.9	37.2	37.2	37.0
67.5°	24.8	24.2	23.6	24.0	24.4	23.8	24.4	24.2	24.4	24.2	23.6
70°	16.8	16.5	16.3	16.5	16.5	16.1	16.5	16.3	16.5	16.3	15.7
72.5°	12.2	12.2	12.0	12.2	12.2	11.8	12.0	11.6	11.8	11.6	11.2
75°	9.1	9.1	8.9	9.1	8.9	8.7	8.9	8.7	8.3	8.3	7.9
77.5°	6.6	6.6	6.6	6.6	6.6	6.4	6.4	6.2	6.0	5.8	5.8
80°	5.0	4.8	4.8	4.8	4.8	4.6	4.8	4.6	4.3	4.1	3.9
82.5°	3.5	3.7	3.5	3.5	3.5	3.3	3.5	3.3	3.3	3.1	2.7
85°	2.7	2.7	2.7	2.7	2.7	2.5	2.5	2.5	2.3	2.3	2.1
87.5°	1.4	1.4	1.4	1.7	1.4	1.4	1.4	1.2	1.2	1.0	1.0
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2
2.5°	761.8	762.8	760.5	764.0	777.7	766.7	771.3	772.7	783.1	784.9	783.7
5°	732.8	737.4	740.3	748.1	763.2	755.3	763.4	768.6	781.8	786.2	787.2
7.5°	710.1	719.6	726.6	739.4	757.2	751.2	763.4	771.9	788.0	793.6	796.3
10°	693.1	707.6	719.8	737.4	757.4	753.5	769.4	781.4	799.4	806.0	809.3
12.5°	680.3	697.9	714.2	736.5	758.2	756.4	775.6	789.3	808.3	814.9	818.8
15°	666.2	686.5	705.5	730.5	753.9	753.5	774.2	788.6	808.1	813.7	817.4
17.5°	649.5	671.2	692.1	719.2	742.3	742.7	763.6	777.9	796.9	801.5	804.0
20°	632.5	654.0	674.9	702.8	725.6	726.2	746.7	759.9	778.1	781.8	782.4
22.5°	614.5	634.6	655.5	683.2	705.1	705.5	725.8	738.2	753.7	755.6	757.2
25°	594.0	613.7	633.3	660.8	681.7	683.0	701.4	712.3	726.6	728.0	728.7
27.5°	572.7	588.9	607.7	631.3	652.3	651.5	668.9	681.3	694.1	693.3	693.1
30°	551.2	564.7	576.2	599.0	614.5	615.1	631.5	637.5	650.9	649.2	649.0
32.5°	536.1	539.6	542.7	554.3	569.0	563.8	575.0	582.4	591.7	591.1	591.3
35°	508.4	502.0	492.7	494.3	503.2	495.2	501.2	500.9	510.5	508.2	510.9
37.5°	461.0	442.8	422.1	410.4	412.0	401.9	399.8	404.8	408.1	401.7	403.9
40°	410.6	383.7	351.4	324.5	323.1	310.5	308.2	303.2	309.6	304.2	305.9
42.5°	373.3	337.8	295.4	262.7	255.6	245.1	238.9	238.1	239.9	236.2	235.2
45°	344.8	306.9	258.3	220.9	213.0	201.7	195.5	193.2	193.4	192.1	191.1
47.5°	311.3	273.2	224.0	185.7	176.8	166.1	159.9	158.4	159.3	157.6	156.4
50°	265.0	230.8	185.9	151.0	143.1	135.3	130.3	128.9	128.6	127.4	126.6
52.5°	215.1	186.8	147.9	118.7	111.7	104.0	100.5	98.7	98.9	97.6	96.4
55°	166.5	148.9	114.6	89.8	83.4	77.4	74.0	71.8	71.2	69.9	69.3
57.5°	123.9	112.1	85.8	64.7	61.0	55.2	51.9	49.2	48.8	48.2	48.0
60°	86.9	78.4	60.4	46.1	41.8	38.3	35.0	32.3	31.0	30.8	30.2
62.5°	56.3	51.1	39.7	30.8	27.5	25.0	21.7	19.9	19.0	18.2	18.4
65°	35.0	31.0	24.8	19.9	18.0	16.1	13.7	12.0	11.2	10.3	10.5
67.5°	21.7	19.4	15.7	12.8	11.6	10.1	8.3	7.0	6.4	5.8	5.4
70°	14.7	12.6	10.8	9.1	8.3	7.2	6.0	5.0	4.6	4.1	3.7
72.5°	10.3	9.3	7.9	6.8	6.2	5.4	4.6	3.9	3.5	3.1	2.7
75°	7.4	6.6	5.8	5.0	4.6	4.1	3.5	3.1	2.7	2.3	1.9
77.5°	5.4	4.8	4.1	3.7	3.5	2.9	2.5	2.3	2.1	1.7	1.2
80°	3.7	3.3	2.7	2.5	2.5	2.1	1.9	1.7	1.4	1.0	0.8
82.5°	2.5	2.3	2.1	1.9	1.7	1.4	1.4	1.0	0.8	0.6	0.4
85°	1.9	1.7	1.4	1.2	1.2	1.0	0.8	0.6	0.6	0.4	0.2
87.5°	1.0	1.0	0.8	0.6	0.6	0.4	0.4	0.2	0.2	0.2	0.2
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2
2.5°	794.2	794.9	798.4	795.7	802.5	807.5	805.0	810.6	808.7	808.3	814.7
5°	799.6	801.1	805.8	803.3	810.8	816.2	813.7	819.9	818.0	817.6	824.2
7.5°	810.0	811.4	815.5	813.5	821.3	826.1	823.0	829.8	827.3	827.1	833.5
10°	823.0	825.1	828.6	826.5	833.7	837.9	834.8	841.4	839.1	838.1	845.1
12.5°	832.7	834.2	837.7	836.0	843.0	846.1	843.5	849.9	847.0	846.1	852.4
15°	830.4	831.9	834.8	833.3	839.9	842.8	839.3	846.4	843.5	841.8	847.4
17.5°	816.0	816.8	818.8	817.4	824.4	826.3	822.4	829.4	826.7	823.8	829.2
20°	794.6	794.2	795.5	794.9	800.6	801.7	799.2	804.4	801.3	799.6	802.7
22.5°	768.2	767.8	768.6	766.9	772.7	773.3	769.6	775.8	772.7	769.6	774.8
25°	738.8	736.5	736.1	736.7	740.7	741.3	737.4	741.9	738.0	735.5	740.5
27.5°	702.6	699.7	699.1	699.7	703.6	700.7	697.4	700.7	696.8	694.5	697.6
30°	657.9	653.8	651.9	650.7	654.8	653.8	646.1	649.9	643.7	640.4	642.6
32.5°	597.7	595.5	590.5	587.6	591.5	583.7	578.9	578.9	576.4	570.9	572.1
35°	514.2	510.7	506.1	503.6	504.3	493.7	485.8	487.5	479.2	477.8	478.4
37.5°	408.5	402.7	401.0	395.9	397.1	387.8	377.1	377.3	372.9	368.4	366.9
40°	306.9	305.9	304.2	299.9	301.6	291.4	287.3	287.5	284.6	281.3	282.9
42.5°	237.2	233.9	232.9	231.4	231.9	230.2	224.8	225.4	223.0	222.1	221.3
45°	192.8	189.3	186.8	188.0	188.0	186.1	184.1	185.3	184.1	182.4	183.3
47.5°	158.8	155.5	154.3	154.1	155.5	154.3	152.2	152.6	152.4	151.8	151.4
50°	126.8	126.0	124.9	124.3	124.9	124.5	122.7	123.7	124.3	122.2	122.9
52.5°	96.6	96.6	96.4	94.9	96.2	94.9	94.7	95.1	94.5	93.7	93.5
55°	70.7	70.1	69.1	68.9	69.3	68.9	68.5	68.7	69.1	67.0	67.0
57.5°	48.4	48.0	47.4	47.4	48.2	47.2	46.5	47.4	46.5	45.7	45.7
60°	31.0	30.8	30.2	30.2	30.2	30.0	29.4	29.6	30.0	28.7	29.0
62.5°	18.6	18.0	17.8	17.6	17.8	17.6	17.6	17.4	17.2	17.2	16.5
65°	10.1	9.7	9.3	9.5	9.5	9.3	9.3	9.3	8.9	8.7	8.5
67.5°	5.2	4.8	4.8	4.6	4.6	4.6	4.6	4.3	4.3	4.3	4.1
70°	3.3	3.1	2.9	2.9	2.9	2.7	2.7	2.7	2.7	2.7	2.5
72.5°	2.3	2.1	1.9	1.9	1.9	1.7	1.7	1.7	1.7	1.4	1.4
75°	1.7	1.4	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.6	0.4
80°	0.6	0.6	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2
82.5°	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	0.2	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





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**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2
2.5°	812.4	810.8	811.8	819.5	816.2	815.1	806.4	814.1
5°	822.2	820.9	820.9	829.6	825.7	824.8	816.4	823.0
7.5°	831.3	830.0	830.2	839.1	836.0	834.8	826.3	832.9
10°	843.0	842.2	842.4	850.9	847.6	846.4	837.7	844.5
12.5°	850.1	848.8	848.8	857.9	854.2	852.4	844.1	850.7
15°	844.7	842.8	842.8	851.9	847.8	845.1	837.9	844.1
17.5°	826.3	824.4	824.4	832.3	829.2	825.3	817.8	823.6
20°	800.6	798.4	797.8	806.9	802.5	799.0	792.4	798.0
22.5°	771.7	770.7	768.8	777.9	774.0	770.2	763.2	767.6
25°	736.9	735.3	733.4	742.3	738.4	734.7	729.1	732.6
27.5°	693.7	693.9	692.9	699.9	696.0	693.9	687.1	692.9
30°	641.4	639.1	638.3	646.6	642.8	640.1	631.7	637.2
32.5°	573.1	569.8	565.5	574.8	568.4	566.1	558.9	566.9
35°	473.9	472.8	468.9	476.7	473.2	469.1	464.5	471.4
37.5°	366.3	367.1	366.7	368.8	366.7	364.0	359.1	356.6
40°	279.6	277.6	275.9	279.6	275.3	275.3	272.4	275.5
42.5°	219.2	218.4	220.5	221.3	218.8	218.4	218.0	217.8
45°	181.0	181.0	181.4	182.2	181.4	181.0	179.7	178.9
47.5°	149.1	150.0	149.1	151.8	150.4	150.0	147.5	148.5
50°	120.8	119.8	120.8	121.6	121.8	120.6	119.3	120.0
52.5°	93.7	92.0	91.6	92.9	92.0	92.0	91.2	91.0
55°	66.0	66.6	65.6	66.6	66.2	65.6	64.9	65.8
57.5°	44.7	44.9	44.5	45.1	44.1	44.3	44.1	43.8
60°	29.0	28.1	28.1	28.7	27.7	27.7	27.5	27.5
62.5°	16.5	16.3	16.3	16.1	15.9	15.9	15.9	15.5
65°	8.5	8.3	8.1	8.1	8.1	8.1	7.9	7.9
67.5°	4.1	3.9	3.9	4.1	3.9	3.9	3.9	3.9
70°	2.5	2.5	2.3	2.5	2.3	2.3	2.3	2.3
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	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
87.5°	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

(END OF REPORT)