

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: P244213

Luminaire Tested: **LSR8B15D010 EC8B15950 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B15D010 EC8B15950 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1497.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

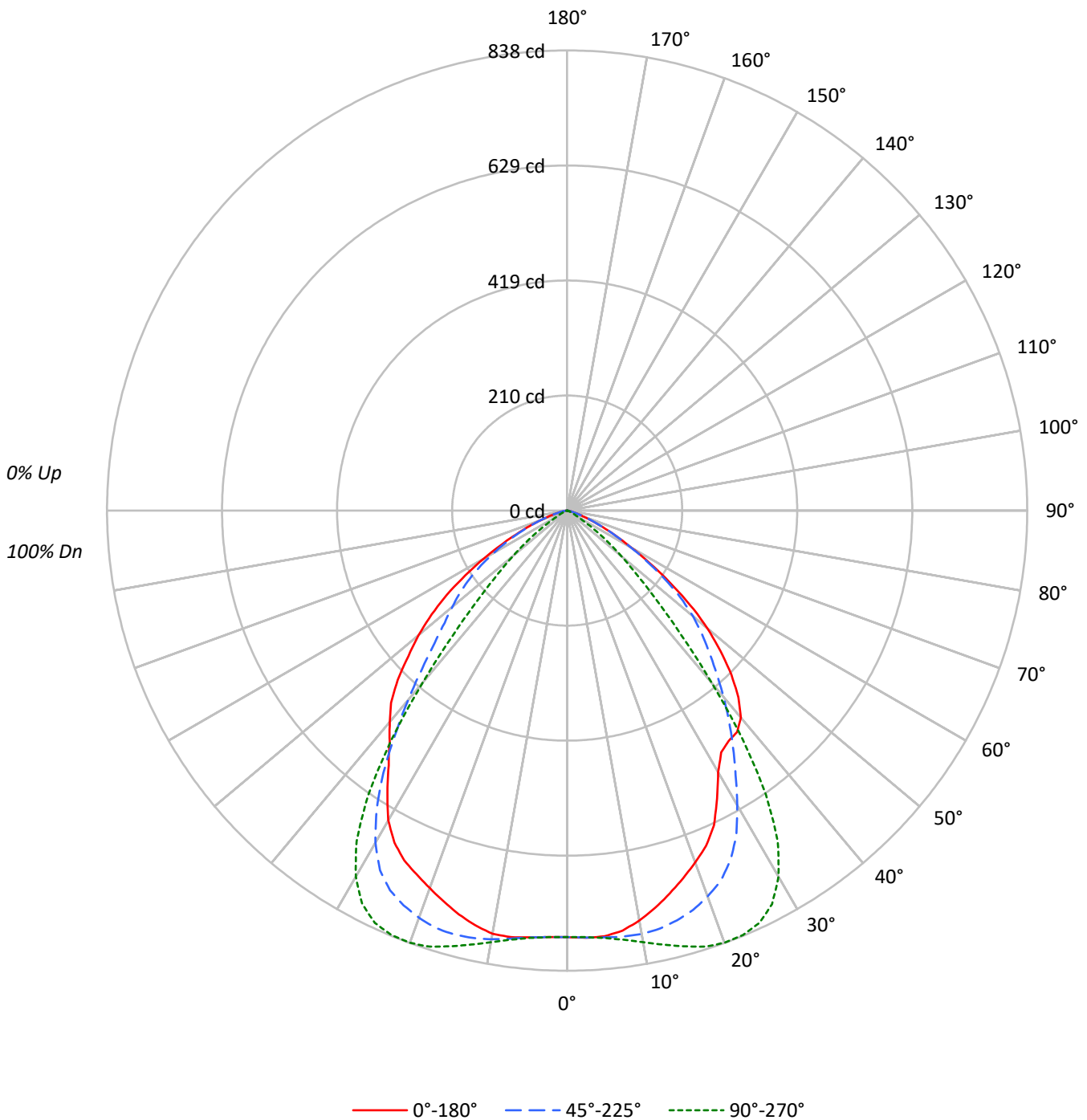
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23947	23947	23947
5°	24088	24178	24153
10°	23735	24987	24499
15°	23043	26226	24304
20°	22373	27486	24011
25°	21513	28189	23899
30°	19580	27417	23191
35°	19289	23757	21337
40°	19813	16476	20228
45°	18442	9960	19018
50°	15999	6150	16949
55°	12279	3215	14381
60°	8363	1295	10854
65°	5202	664	7486
70°	2822	406	4571
75°	1477	191	2705
80°	657	213	1456
85°	425	142	1309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	5.0
10°-20°	221.2	14.8
20°-30°	337.5	22.5
30°-40°	352.2	23.5
40°-50°	264.6	17.7
50°-60°	162.8	10.9
60°-70°	66.2	4.4
70°-80°	15.6	1.0
80°-90°	2.1	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°	633.5	42.3
0°-40°	985.7	65.8
0°-60°	1413.0	94.4
0°-90°	1497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1497.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	777	777	777	777	777	
5°	778	780	781	780	780	74
15°	722	772	822	799	761	203
25°	632	703	828	763	702	287
35°	512	527	631	583	567	324
45°	423	366	228	341	436	323
55°	228	217	60	217	268	205
65°	71	72	9	97	103	74
75°	12	12	2	22	23	15
85°	1	1	0	3	4	2
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°	776.6	776.6	776.6	776.6	776.6	776.6	776.6	776.6	776.6	776.6	776.6
2.5°	778.7	777.4	778.7	778.7	779.1	778.2	778.7	779.1	778.2	778.2	778.2
5°	778.2	777.4	778.2	777.8	778.7	778.7	779.5	779.5	780.3	780.3	781.5
7.5°	771.6	770.0	771.6	772.9	773.7	775.4	777.4	779.1	780.7	782.4	784.4
10°	758.0	758.0	759.3	761.8	764.2	767.1	770.8	774.9	779.1	782.8	786.5
12.5°	741.1	739.9	742.4	745.7	749.4	753.9	759.7	765.9	772.5	779.9	785.7
15°	721.8	720.5	723.4	726.7	731.3	737.9	744.9	753.1	762.6	772.5	782.0
17.5°	702.0	701.6	704.5	709.0	712.7	719.7	728.8	738.7	749.4	762.6	774.9
20°	681.8	681.4	684.3	688.0	692.9	699.5	708.6	720.1	732.9	747.7	762.2
22.5°	660.8	661.2	663.6	667.8	671.9	678.9	688.4	699.9	713.9	730.0	746.1
25°	632.3	630.3	633.6	637.7	644.7	650.5	659.5	671.9	686.3	703.2	722.2
27.5°	591.1	590.7	593.6	597.3	603.5	610.5	620.4	633.1	648.4	666.9	685.5
30°	549.9	550.7	551.9	555.7	559.8	566.8	576.7	587.4	601.8	619.5	639.3
32.5°	521.8	521.8	523.5	526.0	528.9	532.6	539.6	547.4	558.5	570.9	585.3
35°	512.4	510.7	512.4	512.8	513.2	514.0	515.3	517.7	521.4	526.8	532.2
37.5°	508.3	507.0	507.0	505.4	503.3	500.8	497.5	493.8	489.7	484.3	480.2
40°	492.2	491.3	490.5	488.9	484.3	479.4	474.0	465.4	455.9	442.7	429.5
42.5°	461.3	460.4	460.0	456.7	452.6	446.8	440.6	431.6	419.6	402.7	383.8
45°	422.9	421.3	420.0	417.2	414.3	409.3	403.6	395.3	383.3	366.0	343.4
47.5°	378.4	377.6	377.2	375.9	373.1	370.2	366.5	359.9	349.1	332.6	309.2
50°	333.5	331.8	332.6	332.2	331.0	328.9	326.5	321.9	313.7	298.8	277.4
52.5°	281.9	281.9	281.5	282.8	283.2	282.8	283.2	278.2	271.2	260.1	242.0
55°	228.4	228.4	229.6	231.3	232.9	233.3	232.9	230.8	225.9	216.8	200.7
57.5°	178.1	177.3	179.7	182.2	183.8	185.5	184.3	182.6	179.7	172.3	159.9
60°	135.6	135.6	137.3	138.9	140.6	142.2	141.8	141.4	138.9	134.0	124.1
62.5°	99.8	100.2	100.2	101.4	103.0	104.7	105.9	104.7	103.5	100.2	93.6
65°	71.3	70.9	71.3	72.5	73.8	75.4	76.3	75.8	74.6	72.1	67.2
67.5°	47.8	47.4	49.0	49.5	50.3	51.9	51.5	51.9	51.5	49.5	45.3
70°	31.3	30.5	31.3	30.9	32.2	32.6	33.4	33.8	33.4	32.2	30.9
72.5°	19.4	19.0	19.4	19.8	20.2	20.6	21.4	21.4	21.0	20.2	18.5
75°	12.4	11.1	11.5	10.7	11.5	11.5	12.4	12.8	12.4	12.4	11.5
77.5°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.8	8.2	7.4	7.0
80°	3.7	3.7	4.1	4.1	4.1	4.5	4.1	4.1	4.1	4.5	3.3
82.5°	2.9	2.5	2.5	2.5	2.9	2.5	2.5	2.5	2.5	2.5	2.5
85°	1.2	1.6	1.2	0.8	1.2	1.2	1.6	1.2	1.2	1.2	1.6
87.5°	0.4	0.4	0.0	0.0	0.0	0.4	0.0	0.4	0.4	0.8	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	776.6	776.6	776.6	776.6	776.6	776.6	776.6	776.6	776.6	776.6	776.6
2.5°	778.7	777.8	777.8	777.4	778.2	777.4	777.8	777.4	777.4	778.2	777.4
5°	781.5	782.0	781.1	780.7	782.0	782.0	782.0	781.1	781.1	781.5	781.1
7.5°	785.7	786.5	786.9	787.3	788.1	788.6	788.6	788.1	787.7	789.0	787.3
10°	790.2	791.4	793.9	795.1	797.2	797.2	798.0	798.0	797.2	798.0	797.6
12.5°	788.6	796.0	800.1	803.0	805.9	808.3	809.2	809.6	809.2	810.8	809.2
15°	791.4	797.6	804.2	809.2	814.5	817.4	818.2	821.5	822.4	822.8	820.3
17.5°	786.9	798.0	805.0	812.5	820.3	825.6	830.6	832.7	833.1	833.9	830.6
20°	776.6	789.0	799.7	810.4	819.5	827.7	831.8	837.6	836.0	839.3	834.7
22.5°	762.6	776.6	790.2	804.2	813.7	823.6	832.2	836.4	838.4	838.4	833.5
25°	740.3	756.8	771.6	786.1	800.5	812.5	822.4	828.5	829.8	829.4	823.6
27.5°	705.7	723.4	740.7	757.2	774.9	789.0	800.5	807.9	810.0	810.0	803.8
30°	657.9	676.8	693.7	713.5	731.7	747.3	763.4	770.0	773.7	773.7	766.7
32.5°	601.0	617.1	632.7	652.1	671.9	689.6	704.9	713.9	718.5	718.1	711.9
35°	539.2	547.0	559.0	573.4	591.1	607.6	622.4	631.1	638.9	638.5	632.7
37.5°	477.3	475.3	476.5	481.9	493.0	504.5	516.1	524.3	530.9	533.8	532.6
40°	416.7	406.0	395.7	392.0	392.8	397.0	403.1	409.3	416.7	420.5	422.1
42.5°	362.3	344.2	326.0	312.5	304.6	302.1	305.0	307.1	311.6	317.0	322.3
45°	318.6	294.3	270.4	249.4	236.2	228.4	226.7	228.4	230.8	236.2	243.2
47.5°	282.8	254.3	227.5	204.0	184.7	174.4	171.5	170.7	173.1	178.1	187.5
50°	251.0	222.6	192.9	165.7	145.5	134.0	129.8	128.2	131.1	134.8	143.4
52.5°	216.4	188.4	157.9	131.5	110.5	98.5	94.0	91.5	93.2	98.1	106.8
55°	178.9	152.9	125.3	98.1	77.9	66.8	61.4	59.8	61.4	66.8	75.4
57.5°	141.4	119.5	96.5	70.9	52.8	41.6	36.3	34.6	39.2	41.2	50.3
60°	110.5	92.8	73.0	51.9	36.3	27.6	22.3	21.0	23.1	26.8	34.2
62.5°	82.9	71.7	56.1	37.1	26.8	17.7	14.8	13.6	14.8	17.7	23.5
65°	60.2	51.5	39.2	27.2	18.1	13.2	9.9	9.1	10.3	12.4	17.3
67.5°	41.2	34.6	27.2	19.0	12.4	8.2	7.0	7.0	7.4	9.1	12.8
70°	26.8	22.7	17.3	12.4	8.2	6.2	5.4	4.5	5.4	6.6	8.7
72.5°	16.9	14.4	11.1	8.7	6.2	4.5	3.7	3.3	4.1	4.9	6.6
75°	10.3	7.8	5.8	4.5	3.3	3.3	3.3	1.6	2.1	3.3	4.1
77.5°	6.2	5.4	4.5	3.7	2.9	1.6	1.6	1.6	2.1	2.5	3.7
80°	3.3	2.9	2.1	2.1	1.6	1.2	1.6	1.2	0.8	2.1	2.5
82.5°	2.1	1.6	1.6	1.6	2.1	0.8	1.2	0.8	1.2	1.6	1.2
85°	1.2	1.2	1.2	0.8	2.1	0.8	0.8	0.4	0.4	0.8	0.8
87.5°	0.0	0.4	0.4	0.0	0.4	0.0	0.4	0.4	0.4	0.4	0.4
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°	776.6	776.6	776.6	776.6	776.6	776.6	776.6	776.6	776.6	776.6	776.6
2.5°	777.8	777.4	777.8	777.4	777.4	777.4	777.8	777.8	777.4	777.4	778.2
5°	781.1	781.1	781.1	780.7	780.3	780.3	781.1	781.1	779.9	781.1	781.1
7.5°	788.1	786.9	788.1	786.5	785.7	786.1	786.5	785.7	784.8	785.3	785.3
10°	797.2	796.0	796.0	794.7	793.5	792.7	791.9	789.8	787.7	787.3	785.7
12.5°	807.9	805.9	804.6	802.1	800.1	797.2	794.7	791.4	787.3	784.4	781.5
15°	818.6	815.3	812.5	808.3	803.8	798.9	793.5	788.1	781.5	775.8	770.8
17.5°	827.3	822.8	817.4	810.8	804.2	796.8	789.0	781.1	771.6	764.2	758.5
20°	830.2	823.6	816.6	807.9	799.3	789.0	779.1	768.8	758.0	750.2	743.6
22.5°	826.5	818.6	810.0	800.9	789.4	778.2	766.7	754.7	745.3	734.6	728.4
25°	816.2	806.7	797.2	786.5	775.4	763.0	750.6	738.3	726.7	720.9	713.1
27.5°	795.1	784.8	774.5	763.4	750.6	738.3	725.5	713.5	703.6	695.8	691.3
30°	758.0	746.1	734.1	722.2	711.1	698.3	686.3	676.4	666.5	660.3	655.8
32.5°	701.2	690.4	678.5	666.9	656.6	645.9	636.0	627.4	620.4	616.2	612.9
35°	624.5	613.8	604.7	596.5	587.8	583.3	577.1	572.1	569.3	567.6	567.2
37.5°	528.0	521.8	519.0	517.3	515.7	514.4	515.3	517.3	519.0	521.8	525.1
40°	425.0	430.3	432.0	437.8	443.1	450.1	458.0	467.0	474.4	483.9	490.5
42.5°	331.0	340.9	352.4	364.8	378.0	390.8	406.4	420.9	434.1	446.0	456.3
45°	254.3	269.6	286.9	304.6	322.3	340.9	359.9	377.6	393.2	406.0	416.7
47.5°	198.3	215.2	237.4	259.3	280.7	302.6	323.6	342.1	355.3	367.7	377.2
50°	157.0	176.4	200.7	225.9	249.4	272.5	294.7	312.0	325.2	335.1	342.1
52.5°	121.6	144.7	169.4	195.8	220.9	246.1	266.7	282.8	293.5	302.1	307.5
55°	90.7	113.4	139.7	166.9	192.5	216.8	236.2	250.2	259.7	264.6	267.5
57.5°	65.5	86.2	112.5	139.7	162.8	185.9	201.6	214.3	219.7	222.6	223.8
60°	47.8	66.8	90.3	113.8	135.6	154.2	167.8	176.4	180.5	182.2	181.8
62.5°	35.0	51.5	71.7	91.5	109.2	124.5	135.2	141.0	143.0	143.9	142.6
65°	26.8	39.6	56.9	72.1	85.7	96.9	104.7	108.4	109.6	109.2	108.4
67.5°	19.8	29.7	42.5	54.0	63.9	72.5	76.7	80.0	80.8	79.6	78.3
70°	14.0	21.8	30.9	38.8	46.2	51.1	55.6	56.1	56.1	55.6	54.8
72.5°	9.9	15.3	21.0	26.4	30.9	34.6	36.3	37.5	37.1	36.7	35.9
75°	6.6	9.5	15.3	16.5	20.6	21.8	23.5	23.5	23.9	22.7	22.7
77.5°	4.1	6.6	9.1	10.7	12.4	14.0	14.8	14.8	15.3	14.8	14.8
80°	2.5	4.1	4.9	7.4	7.4	8.7	9.1	9.5	8.7	9.9	8.7
82.5°	1.6	2.5	3.7	3.7	4.5	5.4	5.4	5.8	5.8	5.4	5.4
85°	1.2	1.6	2.1	2.5	2.5	2.9	2.5	2.5	2.9	3.3	2.9
87.5°	0.4	0.8	0.4	0.8	0.8	1.6	1.2	1.2	1.2	1.6	1.6
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):

	165°	170°	175°	180°
0°	776.6	776.6	776.6	776.6
2.5°	777.4	777.8	777.4	777.4
5°	781.1	780.7	781.1	780.3
7.5°	784.0	784.0	783.6	783.6
10°	784.0	782.4	782.4	782.4
12.5°	777.8	775.8	774.5	773.7
15°	767.1	763.4	761.8	761.3
17.5°	753.1	749.8	747.7	746.5
20°	737.0	733.7	731.3	731.7
22.5°	723.0	719.3	717.6	716.8
25°	709.0	704.5	703.2	702.4
27.5°	686.3	683.8	682.6	681.4
30°	651.7	650.5	648.4	651.3
32.5°	611.7	609.6	608.0	609.2
35°	567.6	566.4	567.6	566.8
37.5°	527.2	528.4	530.1	530.9
40°	495.5	500.0	501.7	502.5
42.5°	463.7	469.1	472.4	474.4
45°	424.6	429.9	433.6	436.1
47.5°	384.2	388.7	392.4	392.0
50°	347.5	350.0	351.6	353.3
52.5°	310.4	310.4	310.8	310.8
55°	268.3	267.5	267.1	267.5
57.5°	222.2	221.4	220.9	219.7
60°	180.1	177.7	176.0	176.0
62.5°	141.0	138.1	136.9	136.4
65°	105.9	105.5	103.0	102.6
67.5°	76.7	75.0	73.4	73.8
70°	54.0	51.5	51.5	50.7
72.5°	35.0	33.8	33.4	33.4
75°	21.8	21.8	21.0	22.7
77.5°	14.4	14.4	14.0	14.4
80°	8.7	8.7	8.7	8.2
82.5°	5.4	5.8	5.4	5.4
85°	2.9	3.3	2.5	3.7
87.5°	1.6	2.1	1.6	2.1
90°	0.0	0.0	0.0	0.0

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