

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: P246193

Luminaire Tested: **LSR8B15D010 EC8B15840 8LBDW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246193  
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 EC8B15840 8LBDW0MW  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1538.0 lumens  
Efficiency: N/A  
Efficacy: 106.8 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

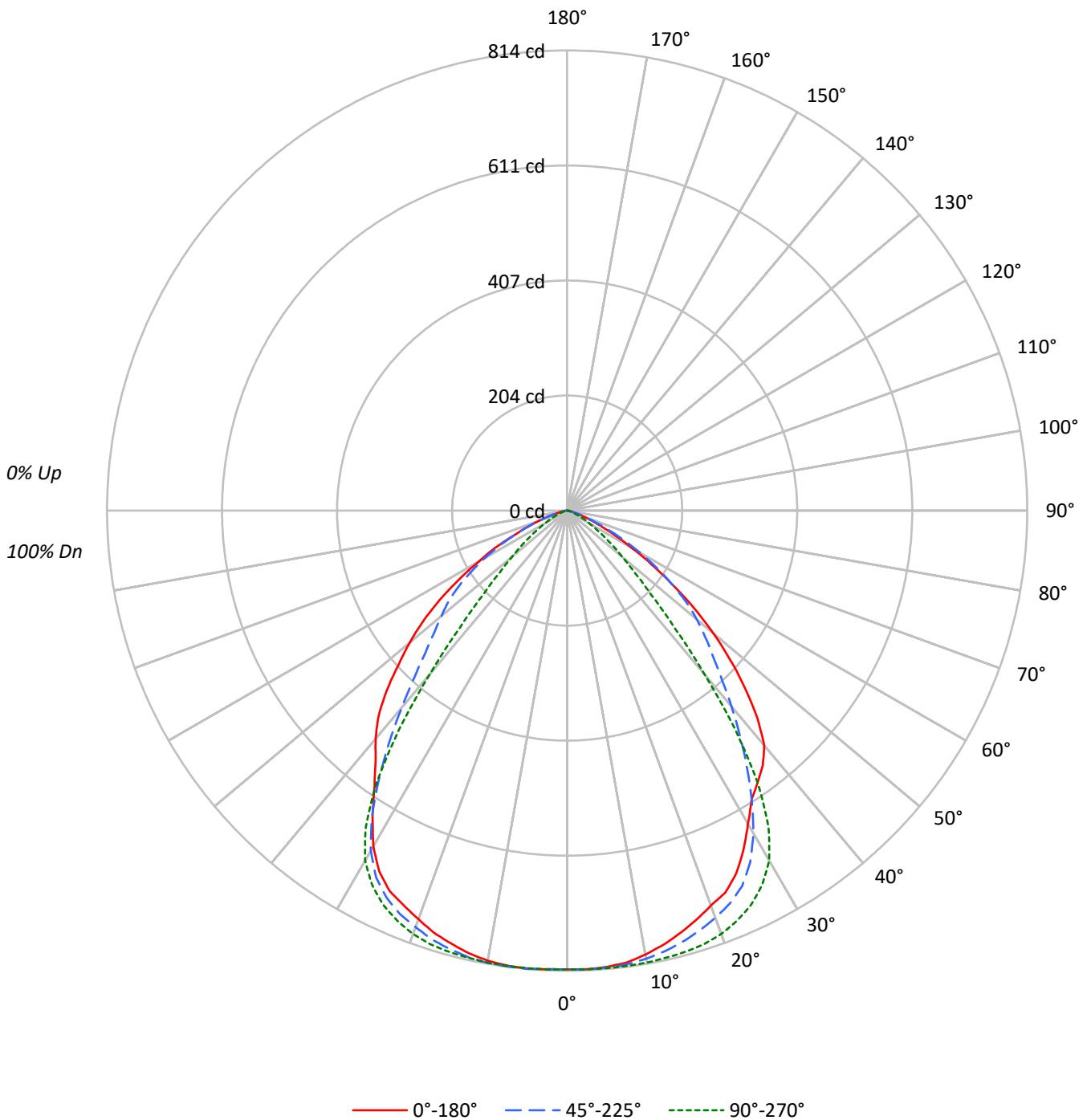
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	52	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°	25024	25024	25024
5°	25079	25147	25172
10°	24971	25422	25313
15°	24696	25795	25309
20°	24398	26157	25242
25°	24082	26188	25270
30°	22785	25452	24412
35°	22105	22120	22349
40°	21830	15220	21218
45°	19450	9136	19716
50°	16172	6083	17429
55°	12129	4193	14774
60°	8221	2794	11150
65°	4962	1810	7661
70°	2750	983	4715
75°	1251	417	2442
80°	1083	462	1705
85°	1238	601	1698



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.4	5.0
10°-20°	224.9	14.6
20°-30°	341.4	22.2
30°-40°	358.5	23.3
40°-50°	268.8	17.5
50°-60°	172.5	11.2
60°-70°	73.8	4.8
70°-80°	17.4	1.1
80°-90°	3.2	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°	643.7	41.9
0°-40°	1002.3	65.2
0°-60°	1443.5	93.9
0°-90°	1538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1538.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	812	812	812	812	812	
5°	810	812	812	814	813	77
15°	774	790	808	803	793	218
25°	708	733	770	756	743	323
35°	587	554	588	581	594	369
45°	446	365	210	354	452	342
55°	226	226	78	235	275	205
65°	68	80	25	103	105	73
75°	10	12	4	21	20	15
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°	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5
2.5°	811.9	812.8	812.4	812.4	811.9	812.4	812.4	813.2	813.2	812.4	811.9
5°	810.2	811.0	811.0	810.2	810.2	812.4	811.0	811.9	811.9	811.5	811.5
7.5°	806.3	806.3	808.0	806.7	806.7	808.0	807.6	808.4	809.3	809.7	809.7
10°	797.5	798.4	798.8	798.8	799.3	800.6	801.5	803.2	804.1	804.9	805.4
12.5°	786.7	788.0	788.4	788.0	789.3	791.0	793.2	795.4	796.7	798.4	799.7
15°	773.6	773.6	774.5	775.8	776.6	779.2	781.4	784.0	787.5	789.7	791.9
17.5°	759.2	760.1	761.4	761.4	763.1	767.5	768.8	772.7	776.6	778.8	783.2
20°	743.5	744.4	745.7	746.6	748.8	752.2	754.9	758.3	762.7	766.6	771.0
22.5°	731.3	729.6	730.5	731.3	733.5	736.6	739.6	744.0	748.3	752.2	756.6
25°	707.8	708.2	709.6	710.4	713.0	715.7	719.1	724.4	728.3	732.6	737.4
27.5°	676.0	676.5	678.6	678.6	680.8	685.2	687.3	691.7	696.9	701.3	706.9
30°	639.9	640.7	640.7	642.5	643.8	646.0	648.1	652.5	655.1	659.0	666.9
32.5°	606.8	607.6	607.2	606.8	605.5	605.0	604.6	605.5	606.3	607.6	610.7
35°	587.2	585.0	583.2	580.2	576.7	572.3	568.4	563.2	558.4	554.5	550.1
37.5°	568.4	568.0	565.4	561.0	554.0	546.2	537.1	525.7	514.4	502.2	490.5
40°	542.3	541.0	538.8	532.7	524.9	515.3	503.1	489.2	470.9	452.1	433.0
42.5°	497.9	498.3	495.7	490.9	483.5	474.3	461.7	446.5	426.9	404.6	379.8
45°	446.0	446.0	445.2	441.2	436.0	428.6	419.0	406.4	387.2	364.6	338.0
47.5°	392.0	392.5	391.1	390.3	388.1	383.3	376.3	366.8	353.3	331.5	304.9
50°	337.1	337.1	339.3	338.9	338.9	337.1	334.1	328.4	316.7	299.2	274.4
52.5°	282.3	283.1	284.4	286.2	288.3	291.8	288.3	285.7	278.3	264.8	243.5
55°	225.6	226.5	228.7	231.7	234.3	237.8	238.7	238.7	234.8	225.6	209.5
57.5°	177.3	176.0	177.7	180.3	183.8	187.3	189.9	193.0	192.5	186.4	173.4
60°	133.3	133.7	135.0	137.6	140.3	143.3	146.8	149.4	150.7	147.7	139.4
62.5°	97.1	97.1	98.9	101.5	102.8	107.2	109.3	110.6	111.9	111.5	106.3
65°	68.0	68.8	69.7	71.0	72.3	74.9	76.2	78.8	79.7	80.1	76.2
67.5°	47.9	46.6	47.5	48.3	49.7	51.4	54.0	54.0	55.3	55.3	52.7
70°	30.5	30.5	30.9	32.2	33.1	33.5	34.4	35.3	36.6	36.2	36.2
72.5°	20.5	20.0	20.5	20.9	21.3	22.6	22.6	23.1	24.0	24.4	22.6
75°	10.5	10.9	11.8	11.3	12.6	11.8	12.2	13.5	13.1	12.2	12.2
77.5°	8.7	8.7	8.7	8.3	9.1	9.1	8.7	9.6	9.1	9.1	8.7
80°	6.1	6.5	6.1	5.7	6.1	5.7	5.7	5.7	5.7	5.7	5.2
82.5°	4.8	3.9	4.4	3.9	4.4	4.4	3.9	3.5	3.5	3.9	3.5
85°	3.5	2.6	3.0	3.0	2.6	2.6	2.6	2.6	2.6	2.2	2.2
87.5°	2.2	1.3	1.3	1.3	1.7	1.7	1.7	1.3	1.7	1.7	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°	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5
2.5°	812.8	812.4	813.2	812.8	812.8	812.4	812.8	812.4	813.2	811.5	811.9
5°	812.8	811.9	812.4	812.8	813.2	812.4	812.4	812.4	813.2	812.4	812.8
7.5°	811.0	810.6	811.9	812.8	812.4	811.9	812.8	812.4	813.2	812.8	813.7
10°	807.6	808.0	808.9	810.2	810.6	811.0	811.9	811.9	813.2	811.5	812.4
12.5°	802.3	804.1	806.3	807.1	808.9	808.9	809.7	810.2	811.0	810.6	811.9
15°	795.8	798.0	800.6	802.8	804.9	806.3	807.6	808.0	809.3	808.0	808.4
17.5°	788.0	790.6	794.5	797.1	800.6	801.9	803.6	804.5	805.8	804.9	805.4
20°	777.1	780.1	784.5	788.4	790.6	793.6	795.8	797.1	798.0	797.1	797.5
22.5°	761.8	766.2	771.8	774.9	779.2	781.9	782.3	785.3	787.5	785.3	786.2
25°	744.0	748.3	752.7	759.2	763.1	766.2	769.2	769.7	771.8	771.4	771.0
27.5°	714.3	720.0	727.4	732.6	737.9	742.7	746.1	747.0	749.2	748.3	748.8
30°	673.8	679.9	686.9	695.2	702.6	707.4	711.7	714.8	717.0	715.7	715.2
32.5°	616.3	622.4	629.8	638.1	646.8	653.8	659.0	663.0	665.6	664.7	662.5
35°	550.6	552.3	557.1	563.6	571.0	578.4	583.2	587.6	590.6	591.5	591.5
37.5°	483.1	477.4	473.9	473.9	478.3	481.3	485.7	488.3	493.1	494.8	496.1
40°	417.7	404.6	392.5	383.3	377.2	376.8	376.8	378.1	382.4	388.1	393.3
42.5°	359.4	338.4	319.7	302.7	290.5	283.6	280.5	281.0	284.4	289.7	298.4
45°	312.7	286.6	263.1	242.6	226.1	215.2	209.9	209.5	212.1	218.2	227.8
47.5°	276.6	248.7	222.1	198.6	180.8	169.0	162.9	161.2	162.9	168.6	179.9
50°	246.5	217.8	190.3	166.0	146.8	134.6	128.9	126.8	128.9	133.7	145.0
52.5°	218.7	189.0	163.3	139.8	119.3	108.9	102.8	101.5	102.8	108.5	117.6
55°	186.4	161.2	135.9	112.4	94.5	84.1	79.3	78.0	79.3	84.5	94.1
57.5°	154.6	132.9	110.6	89.3	74.1	64.9	60.5	58.8	61.8	65.3	76.7
60°	125.0	107.6	88.9	70.1	57.5	49.2	45.7	45.3	46.2	50.5	58.4
62.5°	98.0	83.6	68.8	53.6	43.1	39.6	35.3	34.9	35.7	38.3	44.4
65°	70.6	61.4	50.1	39.2	30.9	26.1	24.4	24.8	25.7	27.4	33.1
67.5°	49.2	42.7	34.9	27.4	21.3	19.2	17.4	17.0	17.4	20.5	23.5
70°	33.1	29.2	23.5	20.9	14.8	11.8	12.2	10.9	12.6	12.6	15.2
72.5°	21.8	19.2	15.7	12.2	10.5	8.3	8.3	7.8	8.7	9.1	11.3
75°	11.3	8.7	8.7	6.1	4.4	2.2	3.9	3.5	3.0	3.5	4.4
77.5°	7.8	6.5	6.1	4.8	4.4	3.5	3.5	3.5	3.5	3.9	4.4
80°	4.8	4.8	3.5	3.0	2.6	2.2	2.6	2.6	2.6	2.6	3.0
82.5°	3.0	2.6	2.6	2.2	2.2	1.7	1.7	1.7	1.7	1.7	2.6
85°	2.6	1.7	1.7	1.3	1.7	3.0	1.3	1.7	1.7	1.7	1.3
87.5°	0.9	1.3	1.3	1.3	0.9	0.4	0.9	1.3	1.3	2.2	1.7
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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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5	811.5
2.5°	812.8	813.2	813.2	812.8	812.8	811.9	813.7	812.4	812.8	814.5	813.2
5°	813.7	814.1	814.1	813.7	813.7	813.7	814.1	814.1	813.7	813.2	814.1
7.5°	815.4	815.0	815.0	814.1	814.1	813.2	814.1	812.8	813.7	812.8	814.1
10°	813.2	813.7	813.2	812.8	812.8	812.4	812.4	811.0	811.5	810.2	811.0
12.5°	811.9	811.5	811.5	810.6	809.7	808.9	808.4	807.1	807.1	804.1	805.4
15°	808.4	808.9	807.6	805.8	804.9	802.8	801.9	800.1	798.4	796.2	796.7
17.5°	805.4	804.1	802.3	800.6	797.1	795.4	793.6	791.0	790.1	787.5	786.7
20°	796.2	795.4	793.2	790.1	788.0	784.0	782.3	779.7	777.5	774.9	773.6
22.5°	784.5	783.6	781.0	777.9	774.5	772.7	771.0	766.2	764.0	761.4	761.0
25°	769.7	768.4	765.7	762.3	760.5	755.7	754.0	750.5	749.6	747.0	746.6
27.5°	747.0	745.3	742.2	737.9	734.8	731.8	730.0	727.4	726.5	723.9	723.5
30°	713.0	710.9	704.8	703.0	697.8	694.7	694.7	691.3	691.7	690.0	690.0
32.5°	659.5	656.0	651.2	647.7	644.2	642.5	642.5	641.2	642.0	642.0	642.9
35°	588.5	583.7	581.1	578.9	578.9	580.6	585.9	587.2	589.8	591.9	593.7
37.5°	497.4	497.0	500.0	502.7	509.2	516.6	525.7	533.6	541.0	546.2	551.4
40°	399.0	409.9	418.6	430.8	440.8	455.2	471.7	485.2	497.9	507.0	516.6
42.5°	311.4	325.4	343.7	361.5	379.4	399.0	420.8	439.5	456.0	468.7	478.7
45°	242.6	261.8	284.0	306.6	329.7	354.1	376.8	395.9	413.4	426.4	436.5
47.5°	195.6	216.5	241.7	266.6	292.7	318.4	343.7	360.2	374.6	385.0	394.2
50°	161.6	183.8	210.4	238.7	264.8	290.5	312.3	328.4	340.2	349.3	355.0
52.5°	135.0	158.5	186.9	215.2	241.3	264.8	284.4	296.6	306.2	312.7	318.0
55°	111.5	134.2	160.7	187.3	213.0	235.2	251.3	260.5	267.9	271.8	274.8
57.5°	91.0	111.9	136.3	160.7	182.9	201.2	213.9	223.0	226.5	229.5	229.1
60°	71.4	91.0	113.3	134.2	153.3	168.1	177.3	182.5	185.1	186.4	185.6
62.5°	56.2	74.1	91.0	109.3	123.3	135.9	144.6	144.6	145.9	146.4	147.7
65°	41.8	55.3	70.1	83.6	95.0	103.2	108.0	109.3	111.1	110.6	109.8
67.5°	30.9	40.9	51.8	61.8	69.7	74.9	78.4	81.5	81.0	80.1	79.7
70°	21.3	27.9	37.5	43.6	49.2	54.5	55.3	55.8	56.2	56.6	55.8
72.5°	14.8	19.6	24.8	30.1	33.5	35.7	37.9	38.3	38.3	38.3	37.9
75°	7.4	10.0	14.8	17.0	20.0	20.9	22.6	22.6	24.0	22.2	21.8
77.5°	6.5	7.8	10.5	12.2	13.5	14.8	15.2	16.6	16.1	15.2	15.7
80°	3.9	4.8	6.5	7.4	9.1	9.6	10.0	10.5	10.0	10.5	10.5
82.5°	3.0	3.5	4.4	4.4	5.7	5.7	6.1	6.1	6.5	6.5	6.5
85°	1.7	3.0	2.6	5.2	3.5	3.5	4.4	5.2	4.4	4.4	5.2
87.5°	1.7	1.7	1.3	1.7	1.7	1.7	2.2	2.6	2.6	3.0	2.6
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°	811.5	811.5	811.5	811.5
2.5°	812.8	813.7	812.4	811.9
5°	814.1	814.1	813.2	813.2
7.5°	814.1	814.1	812.8	811.9
10°	810.6	810.6	809.3	808.4
12.5°	804.1	804.1	803.6	802.3
15°	795.8	795.8	794.1	792.8
17.5°	784.5	785.3	783.2	783.2
20°	772.3	771.8	770.1	769.2
22.5°	759.6	758.8	758.3	755.7
25°	746.1	745.3	744.0	742.7
27.5°	723.1	722.6	721.3	719.6
30°	687.8	687.3	685.6	685.6
32.5°	642.0	641.6	639.9	640.3
35°	594.6	596.3	595.4	593.7
37.5°	554.9	556.2	557.1	556.2
40°	521.8	525.7	526.2	527.1
42.5°	486.5	491.8	493.5	494.4
45°	444.3	449.1	453.0	452.1
47.5°	401.2	404.6	408.1	405.5
50°	359.8	362.0	363.3	363.3
52.5°	320.6	320.6	320.2	320.6
55°	275.7	275.7	274.0	274.8
57.5°	228.7	229.5	228.2	226.1
60°	185.1	182.9	182.1	180.8
62.5°	144.2	144.2	141.1	145.0
65°	108.0	106.7	105.4	105.0
67.5°	78.4	78.0	76.7	76.2
70°	55.3	53.6	53.1	52.3
72.5°	37.0	37.0	36.2	36.2
75°	22.6	20.5	20.0	20.5
77.5°	15.7	15.2	15.2	14.8
80°	10.5	10.0	10.9	9.6
82.5°	6.5	7.0	6.5	7.0
85°	4.4	5.2	4.8	4.8
87.5°	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0

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