

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: P244129

Luminaire Tested: **LSR8B15D010 EC8B15935 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244129
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: LSR8B15D010 EC8B15935 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1392.0 lumens
Efficiency: N/A
Efficacy: 96.7 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

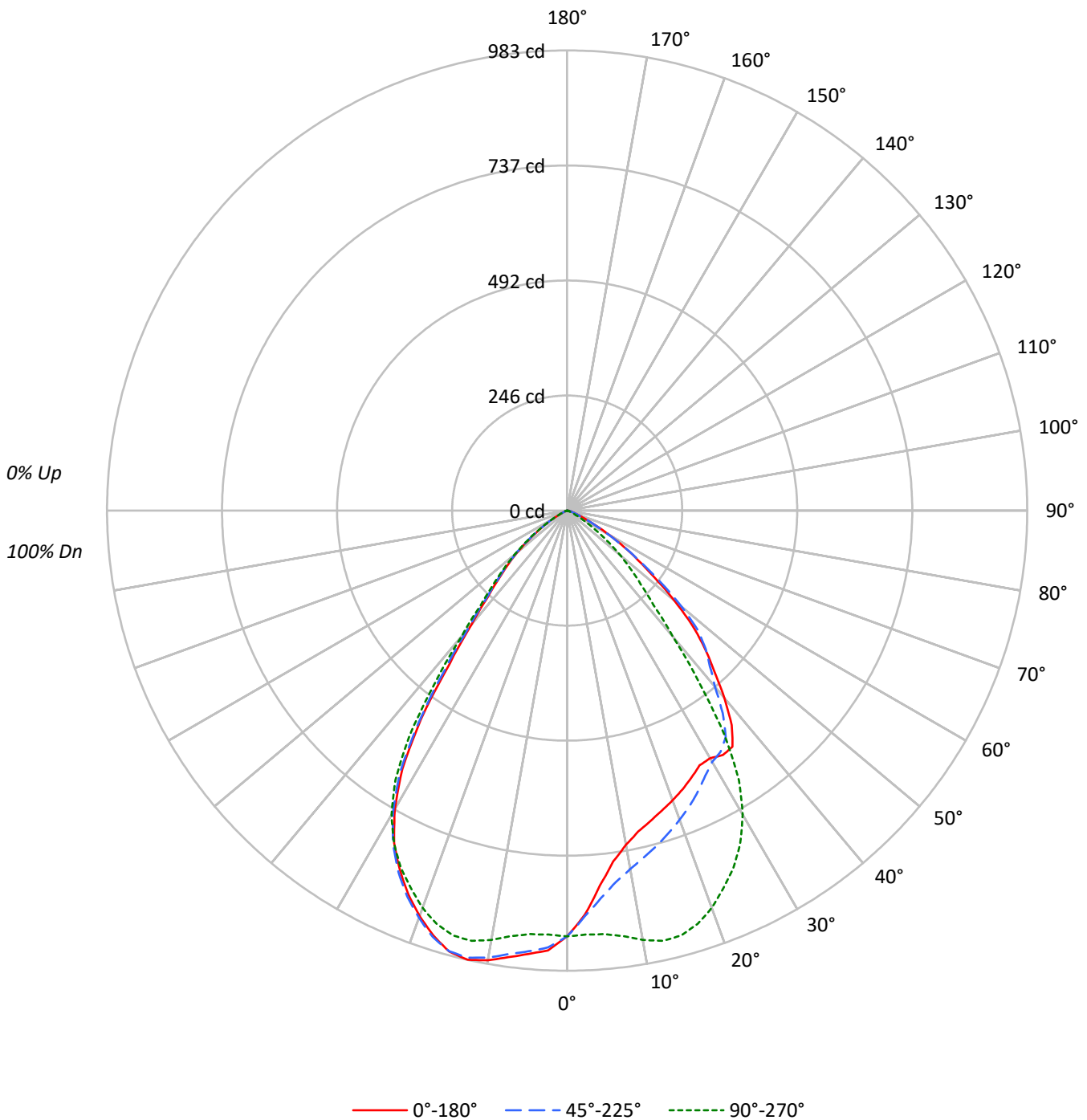
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	28043	28043	28043
5°	24881	28113	29428
10°	22682	29155	30545
15°	21922	30005	31129
20°	21609	29639	30249
25°	21398	28614	28795
30°	21745	26705	26210
35°	23178	22097	20497
40°	21005	14149	12813
45°	18128	9681	9014
50°	14305	7062	6649
55°	9930	4344	4086
60°	6321	2196	1961
65°	3152	868	664
70°	1749	433	234
75°	1251	310	119
80°	1012	213	36
85°	1097	177	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	6.1
10°-20°	244.8	17.6
20°-30°	355.3	25.5
30°-40°	349.9	25.1
40°-50°	219.4	15.8
50°-60°	105.9	7.6
60°-70°	25.6	1.8
70°-80°	5.2	0.4
80°-90°	1.2	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°	684.9	49.2
0°-40°	1034.8	74.3
0°-60°	1360.0	97.7
0°-90°	1392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1392.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	909	909	909	909	909	
5°	804	831	908	945	951	74
15°	687	741	940	974	975	194
25°	629	662	841	852	846	291
35°	616	591	587	554	544	373
45°	416	419	222	213	207	318
55°	185	191	81	80	76	170
65°	43	43	12	10	9	49
75°	10	9	3	1	1	12
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°	909.4	909.4	909.4	909.4	909.4	909.4	909.4	909.4	909.4	909.4	909.4
2.5°	864.4	859.0	848.7	861.1	861.1	854.2	868.0	859.7	866.4	876.9	867.6
5°	803.8	799.2	790.6	803.8	805.4	799.0	815.7	809.5	819.3	832.2	831.0
7.5°	755.7	750.0	742.1	755.7	758.4	754.1	770.1	767.2	780.1	796.8	799.7
10°	724.4	718.5	711.5	724.0	725.9	723.0	739.2	737.6	750.2	769.6	777.2
12.5°	702.2	697.2	689.6	702.7	704.8	700.8	716.1	715.4	728.5	748.8	758.4
15°	686.7	680.7	673.8	685.0	687.9	683.3	697.9	696.5	709.9	729.9	740.7
17.5°	672.1	666.6	659.4	670.0	672.8	668.0	682.4	680.0	691.5	710.6	721.6
20°	658.5	652.5	646.1	656.8	658.5	653.0	667.3	664.2	674.5	692.2	702.9
22.5°	644.4	638.2	631.5	642.0	643.7	638.2	651.3	647.7	657.3	673.3	683.1
25°	628.9	623.1	616.4	626.2	627.7	621.7	635.6	631.0	639.4	653.5	661.6
27.5°	613.3	607.8	600.4	610.5	611.2	605.4	618.1	611.9	618.8	631.7	638.7
30°	610.7	604.5	596.8	605.0	605.2	597.8	609.7	602.3	606.2	615.7	619.8
32.5°	619.1	612.9	605.0	611.7	610.9	602.8	614.3	605.2	606.4	611.4	610.5
35°	615.7	608.3	599.0	606.2	606.2	596.4	607.8	597.1	595.9	596.6	590.6
37.5°	577.7	572.0	563.2	570.1	569.4	562.0	570.8	562.0	557.9	556.2	545.5
40°	521.8	514.9	508.2	515.6	516.3	508.4	519.9	509.9	508.7	503.9	491.2
42.5°	465.2	462.8	456.4	462.6	465.9	459.2	468.8	464.0	464.7	463.5	451.6
45°	415.7	411.7	406.9	414.1	416.2	412.9	422.4	419.6	422.4	428.4	418.6
47.5°	362.5	358.4	353.1	360.8	364.6	358.4	366.5	365.6	369.9	380.1	379.2
50°	298.2	295.3	294.4	295.3	297.7	294.8	300.6	300.8	303.7	317.8	318.7
52.5°	236.1	235.3	232.0	235.1	235.1	230.6	236.3	233.7	236.5	246.1	252.3
55°	184.7	184.0	181.8	184.7	181.6	179.9	181.6	179.0	176.8	184.2	190.7
57.5°	143.8	141.4	138.8	140.0	139.8	136.2	138.1	135.0	133.3	136.0	141.7
60°	102.5	101.8	99.4	100.6	101.5	98.9	100.8	99.4	96.5	98.7	98.9
62.5°	68.1	68.6	67.1	67.4	66.7	66.2	67.4	68.1	67.4	66.4	66.7
65°	43.2	43.0	42.8	43.0	43.5	42.5	43.2	43.7	43.0	43.0	42.8
67.5°	28.7	28.0	27.2	27.7	28.2	27.5	28.2	28.0	28.2	28.0	27.2
70°	19.4	19.1	18.9	19.1	19.1	18.6	19.1	18.9	19.1	18.9	18.2
72.5°	14.1	14.1	13.9	14.1	14.1	13.6	13.9	13.4	13.6	13.4	12.9
75°	10.5	10.5	10.3	10.5	10.3	10.0	10.3	10.0	9.6	9.6	9.1
77.5°	7.6	7.6	7.6	7.6	7.6	7.4	7.4	7.2	6.9	6.7	6.7
80°	5.7	5.5	5.5	5.5	5.5	5.3	5.5	5.3	5.0	4.8	4.5
82.5°	4.1	4.3	4.1	4.1	4.1	3.8	4.1	3.8	3.8	3.6	3.1
85°	3.1	3.1	3.1	3.1	3.1	2.9	2.9	2.9	2.6	2.6	2.4
87.5°	1.7	1.7	1.7	1.9	1.7	1.7	1.7	1.4	1.4	1.2	1.2
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	909.4	909.4	909.4	909.4	909.4	909.4	909.4	909.4	909.4	909.4	909.4
2.5°	880.0	881.2	878.5	882.6	898.4	885.7	891.0	892.6	904.6	906.7	905.3
5°	846.5	851.8	855.1	864.2	881.6	872.6	881.9	887.9	903.2	908.2	909.4
7.5°	820.2	831.2	839.4	854.2	874.7	867.8	881.9	891.7	910.3	916.8	919.9
10°	800.7	817.4	831.5	851.8	875.0	870.4	888.8	902.7	923.5	931.1	934.9
12.5°	785.8	806.1	825.0	850.8	875.9	873.8	896.0	911.8	933.7	941.4	945.9
15°	769.6	793.0	815.0	843.9	870.9	870.4	894.3	911.0	933.5	939.9	944.2
17.5°	750.2	775.3	799.5	830.8	857.5	858.0	882.1	898.6	920.6	925.9	928.7
20°	730.6	755.5	779.6	811.9	838.2	838.9	862.5	877.8	898.9	903.2	903.9
22.5°	709.9	733.0	757.2	789.2	814.5	815.0	838.4	852.7	870.7	872.8	874.7
25°	686.2	708.9	731.6	763.4	787.5	788.9	810.2	822.9	839.4	841.0	841.7
27.5°	661.6	680.2	702.0	729.2	753.6	752.6	772.7	787.0	801.8	800.9	800.7
30°	636.7	652.3	665.7	691.9	709.9	710.6	729.5	736.4	751.9	750.0	749.8
32.5°	619.3	623.4	627.0	640.3	657.3	651.3	664.2	672.8	683.6	682.9	683.1
35°	587.3	579.9	569.1	571.0	581.3	572.0	578.9	578.7	589.7	587.0	590.2
37.5°	532.6	511.5	487.7	474.0	475.9	464.2	461.9	467.6	471.4	464.0	466.6
40°	474.3	443.2	405.9	374.9	373.2	358.6	356.0	350.3	357.7	351.5	353.4
42.5°	431.3	390.2	341.2	303.4	295.3	283.1	276.0	275.0	277.2	272.9	271.7
45°	398.3	354.6	298.4	255.2	246.1	233.0	225.8	223.2	223.4	222.0	220.8
47.5°	359.6	315.6	258.8	214.6	204.3	191.9	184.7	183.0	184.0	182.1	180.6
50°	306.1	266.6	214.8	174.4	165.3	156.3	150.5	148.9	148.6	147.2	146.2
52.5°	248.5	215.8	170.8	137.1	129.0	120.2	116.1	114.0	114.2	112.8	111.3
55°	192.3	172.0	132.4	103.7	96.3	89.4	85.5	82.9	82.2	80.8	80.0
57.5°	143.1	129.5	99.2	74.8	70.5	63.8	60.0	56.9	56.4	55.7	55.4
60°	100.4	90.6	69.8	53.3	48.3	44.2	40.4	37.3	35.8	35.6	34.9
62.5°	65.0	59.0	45.9	35.6	31.8	28.9	25.1	22.9	22.0	21.0	21.3
65°	40.4	35.8	28.7	22.9	20.8	18.6	15.8	13.9	12.9	11.9	12.2
67.5°	25.1	22.5	18.2	14.8	13.4	11.7	9.6	8.1	7.4	6.7	6.2
70°	17.0	14.6	12.4	10.5	9.6	8.4	6.9	5.7	5.3	4.8	4.3
72.5°	11.9	10.8	9.1	7.9	7.2	6.2	5.3	4.5	4.1	3.6	3.1
75°	8.6	7.6	6.7	5.7	5.3	4.8	4.1	3.6	3.1	2.6	2.2
77.5°	6.2	5.5	4.8	4.3	4.1	3.3	2.9	2.6	2.4	1.9	1.4
80°	4.3	3.8	3.1	2.9	2.9	2.4	2.2	1.9	1.7	1.2	1.0
82.5°	2.9	2.6	2.4	2.2	1.9	1.7	1.7	1.2	1.0	0.7	0.5
85°	2.2	1.9	1.7	1.4	1.4	1.2	1.0	0.7	0.7	0.5	0.2
87.5°	1.2	1.2	1.0	0.7	0.7	0.5	0.5	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°	909.4	909.4	909.4	909.4	909.4	909.4	909.4	909.4	909.4	909.4	909.4
2.5°	917.5	918.2	922.3	919.2	927.0	932.8	929.9	936.4	934.2	933.7	941.1
5°	923.7	925.4	930.9	928.0	936.6	942.8	939.9	947.1	945.0	944.5	952.1
7.5°	935.6	937.3	942.1	939.7	948.8	954.3	950.7	958.6	955.7	955.5	962.9
10°	950.7	953.1	957.2	954.8	963.1	967.9	964.3	972.0	969.3	968.1	976.3
12.5°	961.9	963.6	967.7	965.8	973.9	977.5	974.4	981.8	978.4	977.5	984.6
15°	959.3	961.0	964.3	962.6	970.3	973.6	969.6	977.7	974.4	972.4	978.9
17.5°	942.6	943.5	945.9	944.2	952.4	954.5	950.0	958.1	955.0	951.7	957.9
20°	918.0	917.5	918.9	918.2	924.9	926.1	923.2	929.2	925.6	923.7	927.3
22.5°	887.4	886.9	887.9	886.0	892.6	893.4	889.1	896.2	892.6	889.1	895.0
25°	853.5	850.8	850.3	851.1	855.6	856.3	851.8	857.0	852.5	849.6	855.4
27.5°	811.6	808.3	807.6	808.3	812.8	809.5	805.7	809.5	805.0	802.3	805.9
30°	760.0	755.3	753.1	751.7	756.5	755.3	746.4	750.7	743.5	739.7	742.4
32.5°	690.5	687.9	682.1	678.8	683.3	674.3	668.8	668.8	665.9	659.4	660.9
35°	594.0	589.9	584.7	581.8	582.5	570.3	561.2	563.2	553.6	551.9	552.6
37.5°	471.9	465.2	463.3	457.3	458.7	448.0	435.6	435.8	430.8	425.5	423.9
40°	354.6	353.4	351.5	346.4	348.4	336.7	331.9	332.1	328.8	324.9	326.9
42.5°	274.1	270.2	269.0	267.4	267.8	265.9	259.7	260.4	257.6	256.6	255.7
45°	222.7	218.6	215.8	217.2	217.2	215.0	212.6	214.1	212.6	210.7	211.7
47.5°	183.5	179.7	178.2	178.0	179.7	178.2	175.9	176.3	176.1	175.4	174.9
50°	146.5	145.5	144.3	143.6	144.3	143.8	141.7	142.9	143.6	141.2	141.9
52.5°	111.6	111.6	111.3	109.7	111.1	109.7	109.4	109.9	109.2	108.2	108.0
55°	81.7	81.0	79.8	79.6	80.0	79.6	79.1	79.3	79.8	77.4	77.4
57.5°	55.9	55.4	54.7	54.7	55.7	54.5	53.8	54.7	53.8	52.8	52.8
60°	35.8	35.6	34.9	34.9	34.9	34.6	33.9	34.2	34.6	33.2	33.5
62.5°	21.5	20.8	20.5	20.3	20.5	20.3	20.3	20.1	19.8	19.8	19.1
65°	11.7	11.2	10.8	11.0	11.0	10.8	10.8	10.8	10.3	10.0	9.8
67.5°	6.0	5.5	5.5	5.3	5.3	5.3	5.3	5.0	5.0	5.0	4.8
70°	3.8	3.6	3.3	3.3	3.3	3.1	3.1	3.1	3.1	3.1	2.9
72.5°	2.6	2.4	2.2	2.2	2.2	1.9	1.9	1.9	1.9	1.7	1.7
75°	1.9	1.7	1.4	1.4	1.4	1.2	1.2	1.2	1.2	1.2	1.2
77.5°	1.2	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7	0.5
80°	0.7	0.7	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2
82.5°	0.5	0.5	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°	909.4	909.4	909.4	909.4	909.4	909.4	909.4	909.4
2.5°	938.5	936.6	937.8	946.6	942.8	941.6	931.6	940.4
5°	949.7	948.3	948.3	958.3	953.8	952.9	943.1	950.7
7.5°	960.3	958.8	959.1	969.3	965.8	964.3	954.5	962.2
10°	973.9	972.9	973.2	983.0	979.1	977.7	967.7	975.5
12.5°	982.0	980.6	980.6	991.1	986.8	984.6	975.1	982.7
15°	975.8	973.6	973.6	984.2	979.4	976.3	967.9	975.1
17.5°	954.5	952.4	952.4	961.5	957.9	953.3	944.7	951.4
20°	924.9	922.3	921.6	932.1	927.0	923.0	915.3	921.8
22.5°	891.4	890.3	888.1	898.6	894.1	889.8	881.6	886.7
25°	851.3	849.4	847.2	857.5	853.0	848.7	842.2	846.3
27.5°	801.4	801.6	800.4	808.5	804.0	801.6	793.7	800.4
30°	740.9	738.3	737.3	746.9	742.6	739.5	729.7	736.1
32.5°	662.1	658.3	653.2	664.0	656.6	653.9	645.6	654.9
35°	547.4	546.2	541.7	550.7	546.7	541.9	536.6	544.5
37.5°	423.1	424.1	423.6	426.0	423.6	420.5	414.8	411.9
40°	323.0	320.6	318.7	323.0	318.0	318.0	314.7	318.3
42.5°	253.3	252.3	254.7	255.7	252.8	252.3	251.8	251.6
45°	209.1	209.1	209.5	210.5	209.5	209.1	207.6	206.7
47.5°	172.3	173.2	172.3	175.4	173.7	173.2	170.4	171.6
50°	139.5	138.3	139.5	140.5	140.7	139.3	137.9	138.6
52.5°	108.2	106.3	105.8	107.3	106.3	106.3	105.4	105.1
55°	76.2	76.9	75.7	76.9	76.5	75.7	75.0	76.0
57.5°	51.6	51.8	51.4	52.1	50.9	51.1	50.9	50.7
60°	33.5	32.5	32.5	33.2	32.0	32.0	31.8	31.8
62.5°	19.1	18.9	18.9	18.6	18.4	18.4	18.4	17.9
65°	9.8	9.6	9.3	9.3	9.3	9.3	9.1	9.1
67.5°	4.8	4.5	4.5	4.8	4.5	4.5	4.5	4.5
70°	2.9	2.9	2.6	2.9	2.6	2.6	2.6	2.6
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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

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