

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: P244086

Luminaire Tested: **LSR8B10D010 EC8B10827 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244086
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 EC8B10827 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1130.0 lumens
Efficiency: N/A
Efficacy: 110.8 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

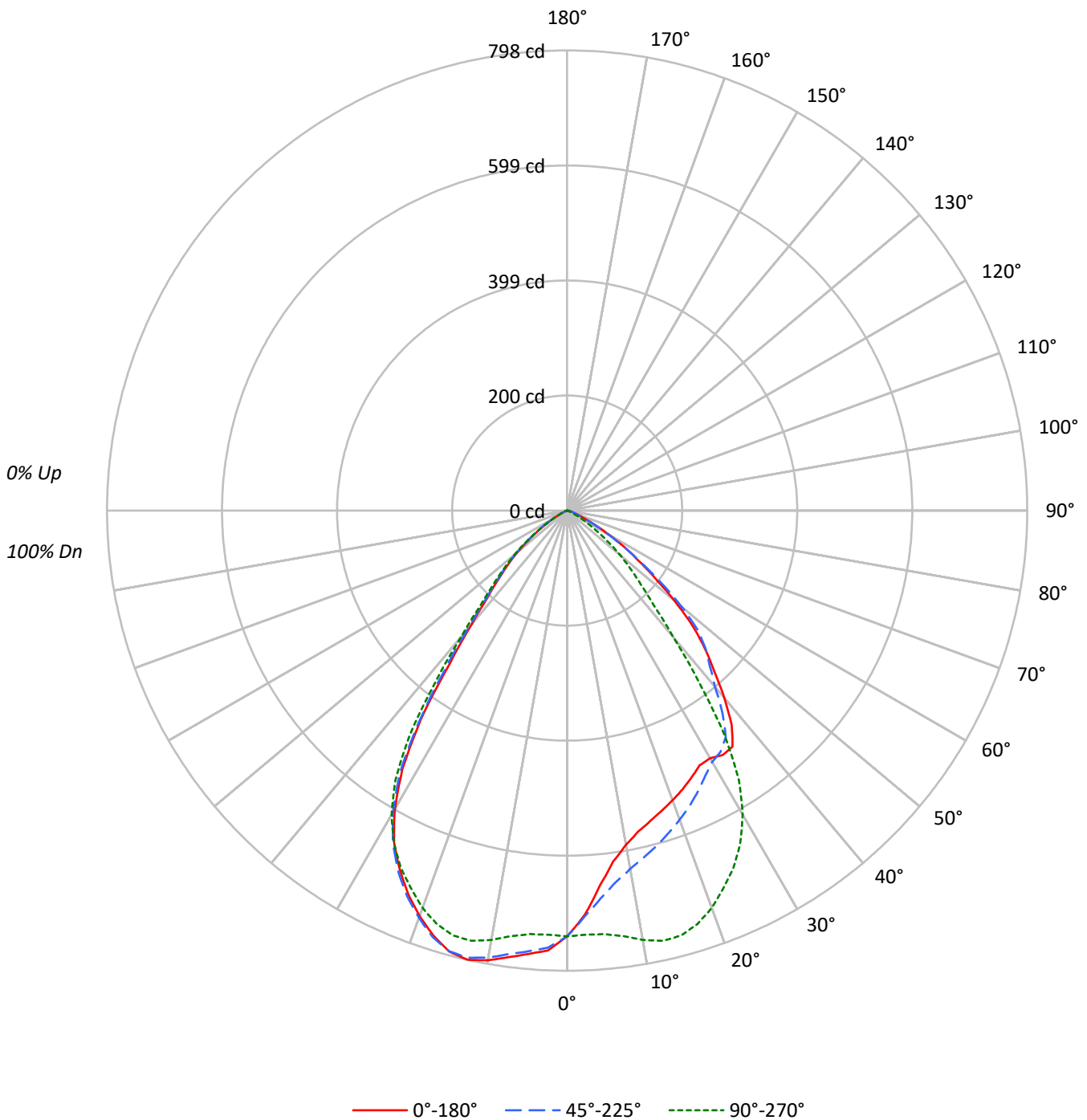
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	22763	22763	22763
5°	20198	22819	23890
10°	18415	23669	24796
15°	17794	24358	25268
20°	17540	24060	24556
25°	17369	23228	23375
30°	17654	21677	21279
35°	18815	17941	16639
40°	17052	11484	10402
45°	14718	7858	7318
50°	11614	5733	5397
55°	8059	3527	3317
60°	5131	1782	1591
65°	2561	708	540
70°	1416	352	189
75°	1013	250	95
80°	835	178	36
85°	885	142	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	6.1
10°-20°	198.7	17.6
20°-30°	288.4	25.5
30°-40°	284.1	25.1
40°-50°	178.1	15.8
50°-60°	85.9	7.6
60°-70°	20.8	1.8
70°-80°	4.2	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°	556.0	49.2
0°-40°	840.0	74.3
0°-60°	1104.0	97.7
0°-90°	1130.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1130.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	738	738	738	738	738	
5°	652	675	737	767	772	60
15°	557	601	763	791	792	158
25°	510	537	683	692	687	236
35°	500	480	477	449	442	302
45°	338	340	180	173	168	258
55°	150	155	66	65	62	138
65°	35	35	10	8	7	40
75°	8	7	2	1	1	10
85°	2	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°	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2
2.5°	701.7	697.3	688.9	699.0	699.0	693.4	704.7	697.9	703.3	711.8	704.3
5°	652.5	648.8	641.8	652.5	653.8	648.6	662.2	657.1	665.1	675.6	674.6
7.5°	613.5	608.8	602.4	613.5	615.6	612.1	625.1	622.8	633.3	646.9	649.2
10°	588.1	583.2	577.6	587.7	589.2	586.9	600.1	598.7	609.0	624.7	630.9
12.5°	570.0	566.0	559.8	570.4	572.2	568.9	581.3	580.7	591.4	607.9	615.6
15°	557.4	552.6	547.0	556.1	558.4	554.7	566.6	565.4	576.3	592.5	601.3
17.5°	545.6	541.1	535.3	543.9	546.2	542.3	553.9	552.0	561.3	576.8	585.8
20°	534.5	529.7	524.5	533.2	534.5	530.1	541.7	539.2	547.5	561.9	570.6
22.5°	523.1	518.1	512.6	521.2	522.5	518.1	528.7	525.8	533.6	546.6	554.5
25°	510.5	505.8	500.4	508.4	509.5	504.7	515.9	512.2	519.0	530.5	537.1
27.5°	497.9	493.4	487.4	495.6	496.1	491.5	501.8	496.7	502.4	512.8	518.5
30°	495.8	490.7	484.5	491.1	491.3	485.3	495.0	489.0	492.1	499.8	503.1
32.5°	502.5	497.5	491.1	496.5	496.0	489.4	498.7	491.3	492.3	496.3	495.6
35°	499.8	493.8	486.3	492.1	492.1	484.1	493.4	484.7	483.7	484.3	479.5
37.5°	469.0	464.3	457.2	462.8	462.2	456.2	463.4	456.2	452.9	451.5	442.8
40°	423.6	418.0	412.5	418.6	419.1	412.7	422.1	413.9	412.9	409.1	398.8
42.5°	377.6	375.7	370.5	375.5	378.2	372.8	380.5	376.7	377.2	376.3	366.6
45°	337.5	334.2	330.3	336.1	337.9	335.2	342.9	340.6	342.9	347.8	339.8
47.5°	294.2	290.9	286.7	292.9	296.0	290.9	297.5	296.8	300.2	308.6	307.8
50°	242.1	239.7	239.0	239.7	241.7	239.3	244.0	244.2	246.5	258.0	258.7
52.5°	191.6	191.0	188.3	190.9	190.9	187.2	191.8	189.7	192.0	199.8	204.8
55°	149.9	149.3	147.6	149.9	147.4	146.1	147.4	145.3	143.5	149.5	154.8
57.5°	116.8	114.8	112.7	113.7	113.5	110.6	112.1	109.6	108.2	110.4	115.0
60°	83.2	82.6	80.7	81.7	82.4	80.3	81.9	80.7	78.4	80.1	80.3
62.5°	55.3	55.7	54.5	54.7	54.1	53.7	54.7	55.3	54.7	53.9	54.1
65°	35.1	34.9	34.7	34.9	35.3	34.5	35.1	35.5	34.9	34.9	34.7
67.5°	23.3	22.7	22.1	22.5	22.9	22.3	22.9	22.7	22.9	22.7	22.1
70°	15.7	15.5	15.3	15.5	15.5	15.1	15.5	15.3	15.5	15.3	14.7
72.5°	11.4	11.4	11.2	11.4	11.4	11.1	11.2	10.9	11.1	10.9	10.5
75°	8.5	8.5	8.3	8.5	8.3	8.1	8.3	8.1	7.8	7.8	7.4
77.5°	6.2	6.2	6.2	6.2	6.2	6.0	6.0	5.8	5.6	5.4	5.4
80°	4.7	4.5	4.5	4.5	4.5	4.3	4.5	4.3	4.1	3.9	3.7
82.5°	3.3	3.5	3.3	3.3	3.3	3.1	3.3	3.1	3.1	2.9	2.5
85°	2.5	2.5	2.5	2.5	2.5	2.3	2.3	2.3	2.1	2.1	1.9
87.5°	1.4	1.4	1.4	1.6	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°	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2
2.5°	714.3	715.3	713.2	716.5	729.3	719.0	723.3	724.6	734.3	736.1	734.9
5°	687.2	691.5	694.2	701.5	715.7	708.3	715.9	720.7	733.2	737.2	738.2
7.5°	665.9	674.8	681.4	693.4	710.1	704.5	715.9	723.9	739.0	744.2	746.7
10°	650.0	663.5	675.0	691.5	710.3	706.6	721.5	732.8	749.6	755.9	759.0
12.5°	637.9	654.4	669.7	690.7	711.1	709.3	727.3	740.1	758.0	764.2	767.9
15°	624.7	643.7	661.6	685.1	707.0	706.6	726.0	739.6	757.8	763.0	766.5
17.5°	609.0	629.4	649.0	674.4	696.1	696.5	716.1	729.5	747.3	751.6	753.9
20°	593.1	613.3	632.9	659.1	680.4	681.0	700.2	712.6	729.7	733.2	733.7
22.5°	576.3	595.1	614.7	640.6	661.2	661.6	680.6	692.2	706.8	708.5	710.1
25°	557.0	575.5	593.9	619.7	639.3	640.5	657.7	668.0	681.4	682.7	683.3
27.5°	537.1	552.2	569.9	592.0	611.7	611.0	627.3	638.9	650.9	650.1	650.0
30°	516.9	529.5	540.4	561.7	576.3	576.8	592.2	597.8	610.4	608.8	608.6
32.5°	502.7	506.0	508.9	519.8	533.6	528.7	539.2	546.2	554.9	554.3	554.5
35°	476.8	470.7	462.0	463.6	471.9	464.3	470.0	469.8	478.7	476.6	479.1
37.5°	432.3	415.3	395.9	384.8	386.4	376.9	374.9	379.6	382.7	376.7	378.8
40°	385.0	359.8	329.5	304.3	303.0	291.1	289.0	284.3	290.4	285.3	286.9
42.5°	350.1	316.7	277.0	246.3	239.7	229.8	224.0	223.2	225.0	221.5	220.5
45°	323.3	287.8	242.3	207.1	199.8	189.1	183.3	181.2	181.4	180.2	179.2
47.5°	291.9	256.2	210.1	174.2	165.8	155.7	149.9	148.6	149.3	147.8	146.6
50°	248.5	216.5	174.4	141.6	134.2	126.8	122.2	120.8	120.6	119.5	118.7
52.5°	201.7	175.1	138.7	111.3	104.7	97.6	94.3	92.5	92.7	91.5	90.4
55°	156.1	139.7	107.5	84.2	78.2	72.5	69.4	67.3	66.7	65.6	65.0
57.5°	116.2	105.1	80.5	60.7	57.2	51.8	48.7	46.2	45.8	45.2	45.0
60°	81.5	73.5	56.6	43.3	39.2	35.9	32.8	30.3	29.1	28.9	28.3
62.5°	52.8	47.9	37.2	28.9	25.8	23.5	20.4	18.6	17.8	17.1	17.3
65°	32.8	29.1	23.3	18.6	16.9	15.1	12.8	11.2	10.5	9.7	9.9
67.5°	20.4	18.2	14.7	12.0	10.9	9.5	7.8	6.6	6.0	5.4	5.0
70°	13.8	11.8	10.1	8.5	7.8	6.8	5.6	4.7	4.3	3.9	3.5
72.5°	9.7	8.7	7.4	6.4	5.8	5.0	4.3	3.7	3.3	2.9	2.5
75°	7.0	6.2	5.4	4.7	4.3	3.9	3.3	2.9	2.5	2.1	1.7
77.5°	5.0	4.5	3.9	3.5	3.3	2.7	2.3	2.1	1.9	1.6	1.2
80°	3.5	3.1	2.5	2.3	2.3	1.9	1.7	1.6	1.4	1.0	0.8
82.5°	2.3	2.1	1.9	1.7	1.6	1.4	1.4	1.0	0.8	0.6	0.4
85°	1.7	1.6	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°	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2
2.5°	744.8	745.4	748.7	746.2	752.6	757.2	754.9	760.1	758.4	758.0	764.0
5°	749.8	751.2	755.7	753.3	760.3	765.4	763.0	768.9	767.1	766.7	772.9
7.5°	759.5	760.9	764.8	762.8	770.2	774.7	771.8	778.2	775.8	775.6	781.7
10°	771.8	773.7	777.0	775.1	781.8	785.7	782.8	789.0	786.9	785.9	792.5
12.5°	780.9	782.2	785.5	784.0	790.6	793.5	791.0	797.0	794.3	793.5	799.3
15°	778.7	780.1	782.8	781.5	787.7	790.4	787.1	793.7	791.0	789.4	794.6
17.5°	765.2	765.9	767.9	766.5	773.1	774.9	771.2	777.8	775.3	772.5	777.6
20°	745.2	744.8	746.0	745.4	750.8	751.8	749.5	754.3	751.4	749.8	752.8
22.5°	720.4	720.0	720.7	719.2	724.6	725.2	721.7	727.5	724.6	721.7	726.6
25°	692.8	690.7	690.3	690.9	694.6	695.1	691.5	695.7	692.0	689.7	694.4
27.5°	658.9	656.2	655.6	656.2	659.8	657.1	654.0	657.1	653.4	651.3	654.2
30°	617.0	613.1	611.4	610.2	614.1	613.1	605.9	609.4	603.6	600.5	602.6
32.5°	560.5	558.4	553.8	551.0	554.7	547.4	542.9	542.9	540.6	535.3	536.5
35°	482.2	478.9	474.6	472.3	472.9	463.0	455.6	457.2	449.4	448.0	448.6
37.5°	383.1	377.6	376.1	371.2	372.4	363.7	353.6	353.8	349.7	345.4	344.1
40°	287.8	286.9	285.3	281.2	282.8	273.3	269.4	269.6	266.9	263.8	265.3
42.5°	222.5	219.4	218.4	217.0	217.4	215.9	210.8	211.4	209.1	208.3	207.5
45°	180.8	177.5	175.1	176.3	176.3	174.6	172.6	173.8	172.6	171.1	171.8
47.5°	149.0	145.9	144.7	144.5	145.9	144.7	142.8	143.1	142.9	142.4	142.0
50°	118.9	118.1	117.2	116.6	117.2	116.8	115.0	116.0	116.6	114.6	115.2
52.5°	90.6	90.6	90.4	89.0	90.2	89.0	88.8	89.2	88.6	87.9	87.7
55°	66.3	65.8	64.8	64.6	65.0	64.6	64.2	64.4	64.8	62.8	62.8
57.5°	45.4	45.0	44.4	44.4	45.2	44.2	43.6	44.4	43.6	42.9	42.9
60°	29.1	28.9	28.3	28.3	28.3	28.1	27.5	27.7	28.1	27.0	27.2
62.5°	17.5	16.9	16.7	16.5	16.7	16.5	16.5	16.3	16.1	16.1	15.5
65°	9.5	9.1	8.7	8.9	8.9	8.7	8.7	8.7	8.3	8.1	8.0
67.5°	4.8	4.5	4.5	4.3	4.3	4.3	4.3	4.1	4.1	4.1	3.9
70°	3.1	2.9	2.7	2.7	2.7	2.5	2.5	2.5	2.5	2.5	2.3
72.5°	2.1	1.9	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.4	1.4
75°	1.6	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°	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2
2.5°	761.9	760.3	761.3	768.5	765.4	764.4	756.2	763.4
5°	771.0	769.8	769.8	778.0	774.3	773.5	765.6	771.8
7.5°	779.5	778.4	778.5	786.9	784.0	782.8	774.9	781.1
10°	790.6	789.8	790.0	797.9	794.8	793.7	785.5	791.9
12.5°	797.2	796.0	796.0	804.5	801.0	799.3	791.5	797.8
15°	792.1	790.4	790.4	798.9	795.0	792.5	785.7	791.5
17.5°	774.9	773.1	773.1	780.5	777.6	773.9	766.9	772.3
20°	750.8	748.7	748.1	756.6	752.6	749.3	743.1	748.3
22.5°	723.7	722.7	720.9	729.5	725.8	722.3	715.7	719.8
25°	691.1	689.5	687.8	696.1	692.4	688.9	683.7	687.0
27.5°	650.5	650.7	649.8	656.4	652.7	650.7	644.3	649.8
30°	601.5	599.3	598.6	606.3	602.8	600.3	592.3	597.6
32.5°	537.5	534.4	530.3	539.0	533.0	530.9	524.1	531.6
35°	444.4	443.4	439.7	447.1	443.8	439.9	435.6	442.0
37.5°	343.5	344.3	343.9	345.8	343.9	341.4	336.7	334.4
40°	262.2	260.3	258.7	262.2	258.2	258.2	255.4	258.4
42.5°	205.6	204.8	206.8	207.5	205.2	204.8	204.4	204.2
45°	169.7	169.7	170.1	170.9	170.1	169.7	168.5	167.8
47.5°	139.8	140.6	139.8	142.4	141.0	140.6	138.3	139.3
50°	113.3	112.3	113.3	114.0	114.2	113.1	111.9	112.5
52.5°	87.9	86.3	85.9	87.1	86.3	86.3	85.5	85.3
55°	61.9	62.5	61.5	62.5	62.1	61.5	60.9	61.7
57.5°	41.9	42.1	41.7	42.3	41.3	41.5	41.3	41.1
60°	27.2	26.4	26.4	27.0	26.0	26.0	25.8	25.8
62.5°	15.5	15.3	15.3	15.1	14.9	14.9	14.9	14.5
65°	8.0	7.8	7.6	7.6	7.6	7.6	7.4	7.4
67.5°	3.9	3.7	3.7	3.9	3.7	3.7	3.7	3.7
70°	2.3	2.3	2.1	2.3	2.1	2.1	2.1	2.1
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

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