

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: P244128

Luminaire Tested: **LSR8B10D010 EC8B10935 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244128
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 EC8B10935 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: 1028.0 lumens
Efficiency: N/A
Efficacy: 100.8 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

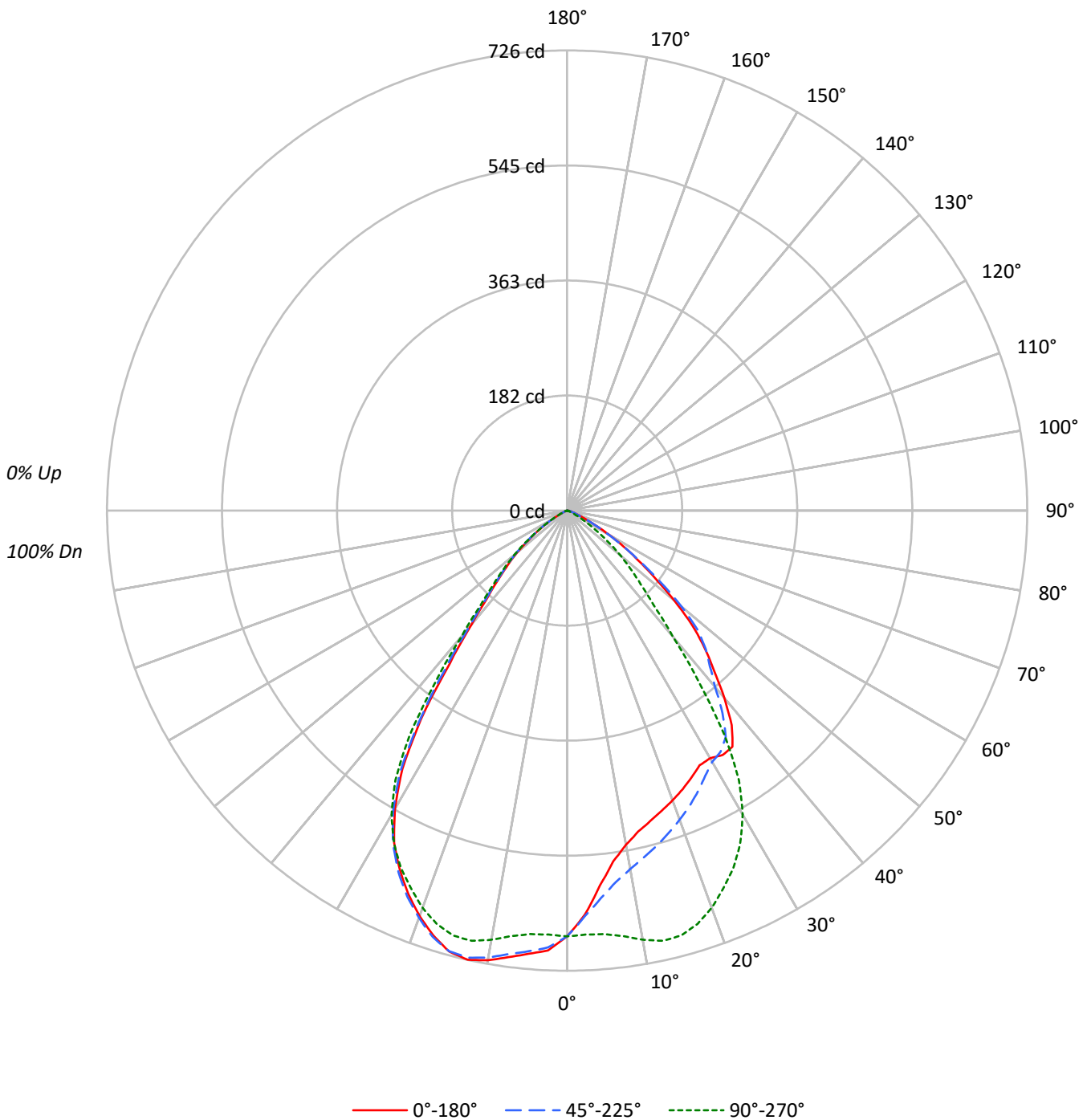
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20710	20710	20710
5°	18374	20761	21733
10°	16752	21530	22557
15°	16189	22162	22989
20°	15958	21888	22337
25°	15801	21132	21265
30°	16059	19723	19356
35°	17117	16319	15137
40°	15514	10450	9460
45°	13388	7148	6655
50°	10564	5215	4908
55°	7333	3204	3016
60°	4669	1622	1449
65°	2328	642	489
70°	1289	316	171
75°	929	226	83
80°	746	160	36
85°	814	142	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	6.1
10°-20°	180.8	17.6
20°-30°	262.4	25.5
30°-40°	258.4	25.1
40°-50°	162.0	15.8
50°-60°	78.2	7.6
60°-70°	18.9	1.8
70°-80°	3.8	0.4
80°-90°	0.9	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°	505.8	49.2
0°-40°	764.2	74.3
0°-60°	1004.4	97.7
0°-90°	1028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1028.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	672	672	672	672	672	
5°	594	614	671	698	702	55
15°	507	547	694	720	720	143
25°	464	489	621	630	625	215
35°	455	436	434	409	402	275
45°	307	309	164	157	153	235
55°	136	141	60	59	56	125
65°	32	32	9	8	7	36
75°	8	7	2	1	1	9
85°	2	2	0	0	0	2
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°	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6
2.5°	638.4	634.3	626.8	635.9	635.9	630.8	641.0	634.9	639.8	647.6	640.7
5°	593.6	590.2	583.9	593.6	594.8	590.1	602.4	597.8	605.0	614.6	613.7
7.5°	558.1	553.9	548.1	558.1	560.1	556.9	568.7	566.6	576.1	588.5	590.6
10°	535.0	530.6	525.5	534.6	536.1	533.9	545.9	544.7	554.1	568.3	574.0
12.5°	518.6	514.9	509.2	518.9	520.5	517.5	528.8	528.3	538.0	553.0	560.1
15°	507.1	502.7	497.6	505.9	508.0	504.6	515.4	514.4	524.2	539.1	547.0
17.5°	496.4	492.3	487.0	494.8	496.9	493.4	503.9	502.2	510.6	524.8	532.9
20°	486.3	481.9	477.1	485.1	486.3	482.2	492.8	490.5	498.1	511.2	519.1
22.5°	475.9	471.3	466.4	474.1	475.4	471.3	481.0	478.4	485.4	497.2	504.5
25°	464.4	460.2	455.2	462.5	463.5	459.1	469.4	466.0	472.2	482.6	488.6
27.5°	452.9	448.9	443.4	450.8	451.4	447.1	456.5	451.9	457.0	466.5	471.7
30°	451.0	446.4	440.8	446.8	446.9	441.5	450.3	444.8	447.7	454.7	457.7
32.5°	457.2	452.6	446.8	451.7	451.2	445.2	453.7	446.9	447.8	451.5	450.8
35°	454.7	449.2	442.4	447.7	447.7	440.4	448.9	441.0	440.1	440.6	436.2
37.5°	426.7	422.4	415.9	421.0	420.5	415.0	421.5	415.0	412.0	410.8	402.8
40°	385.4	380.3	375.3	380.8	381.3	375.5	384.0	376.5	375.7	372.1	362.8
42.5°	343.5	341.8	337.0	341.6	344.1	339.1	346.2	342.7	343.2	342.3	333.5
45°	307.0	304.0	300.5	305.8	307.4	304.9	312.0	309.8	312.0	316.4	309.1
47.5°	267.7	264.7	260.8	266.4	269.3	264.7	270.7	270.0	273.1	280.7	280.0
50°	220.2	218.1	217.4	218.1	219.9	217.7	222.0	222.2	224.3	234.7	235.4
52.5°	174.3	173.8	171.3	173.6	173.6	170.3	174.5	172.6	174.7	181.7	186.3
55°	136.4	135.9	134.3	136.4	134.1	132.9	134.1	132.2	130.6	136.0	140.8
57.5°	106.2	104.5	102.5	103.4	103.2	100.6	102.0	99.7	98.5	100.4	104.6
60°	75.7	75.2	73.4	74.3	75.0	73.1	74.5	73.4	71.3	72.9	73.1
62.5°	50.3	50.6	49.6	49.8	49.2	48.9	49.8	50.3	49.8	49.1	49.2
65°	31.9	31.8	31.6	31.8	32.1	31.4	31.9	32.3	31.8	31.8	31.6
67.5°	21.2	20.6	20.1	20.5	20.8	20.3	20.8	20.6	20.8	20.6	20.1
70°	14.3	14.1	13.9	14.1	14.1	13.8	14.1	13.9	14.1	13.9	13.4
72.5°	10.4	10.4	10.2	10.4	10.4	10.1	10.2	9.9	10.1	9.9	9.5
75°	7.8	7.8	7.6	7.8	7.6	7.4	7.6	7.4	7.1	7.1	6.7
77.5°	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.3	5.1	4.9	4.9
80°	4.2	4.1	4.1	4.1	4.1	3.9	4.1	3.9	3.7	3.5	3.4
82.5°	3.0	3.2	3.0	3.0	3.0	2.8	3.0	2.8	2.8	2.6	2.3
85°	2.3	2.3	2.3	2.3	2.3	2.1	2.1	2.1	1.9	1.9	1.8
87.5°	1.2	1.2	1.2	1.4	1.2	1.2	1.2	1.1	1.1	0.9	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6
2.5°	649.9	650.8	648.8	651.8	663.5	654.1	658.0	659.2	668.0	669.6	668.6
5°	625.2	629.0	631.5	638.2	651.1	644.4	651.3	655.7	667.0	670.7	671.6
7.5°	605.8	613.9	619.9	630.8	646.0	640.9	651.3	658.5	672.3	677.0	679.3
10°	591.3	603.6	614.0	629.0	646.2	642.8	656.4	666.6	682.0	687.6	690.5
12.5°	580.3	595.3	609.3	628.3	646.9	645.3	661.7	673.3	689.6	695.2	698.6
15°	568.3	585.6	601.9	623.2	643.2	642.8	660.5	672.8	689.4	694.2	697.3
17.5°	554.1	572.6	590.4	613.5	633.3	633.6	651.5	663.6	679.9	683.7	685.9
20°	539.6	557.9	575.8	599.6	619.0	619.5	637.0	648.3	663.8	667.0	667.5
22.5°	524.2	541.4	559.2	582.8	601.5	601.9	619.2	629.8	643.0	644.6	646.0
25°	506.8	523.5	540.3	563.8	581.6	582.6	598.3	607.7	619.9	621.1	621.6
27.5°	488.6	502.4	518.4	538.5	556.5	555.8	570.6	581.2	592.2	591.5	591.3
30°	470.2	481.7	491.6	511.0	524.2	524.8	538.7	543.8	555.3	553.9	553.7
32.5°	457.4	460.4	463.0	472.9	485.4	481.0	490.5	496.9	504.8	504.3	504.5
35°	433.7	428.2	420.3	421.7	429.3	422.4	427.5	427.4	435.5	433.5	435.8
37.5°	393.3	377.8	360.1	350.1	351.5	342.8	341.1	345.3	348.1	342.7	344.6
40°	350.3	327.3	299.8	276.9	275.6	264.9	262.9	258.7	264.1	259.6	261.0
42.5°	318.5	288.1	252.0	224.1	218.1	209.1	203.8	203.1	204.7	201.5	200.6
45°	294.1	261.9	220.4	188.4	181.7	172.0	166.7	164.8	165.0	163.9	163.0
47.5°	265.6	233.1	191.1	158.5	150.9	141.7	136.4	135.2	135.9	134.5	133.4
50°	226.0	196.9	158.6	128.8	122.1	115.4	111.2	109.9	109.8	108.7	108.0
52.5°	183.5	159.3	126.2	101.3	95.3	88.8	85.8	84.2	84.3	83.3	82.2
55°	142.0	127.0	97.8	76.6	71.1	66.0	63.2	61.2	60.7	59.6	59.1
57.5°	105.7	95.6	73.2	55.2	52.1	47.1	44.3	42.0	41.6	41.1	40.9
60°	74.1	66.9	51.5	39.3	35.6	32.6	29.8	27.5	26.5	26.3	25.8
62.5°	48.0	43.6	33.9	26.3	23.5	21.4	18.5	16.9	16.2	15.5	15.7
65°	29.8	26.5	21.2	16.9	15.4	13.8	11.6	10.2	9.5	8.8	9.0
67.5°	18.5	16.6	13.4	10.9	9.9	8.6	7.1	6.0	5.5	4.9	4.6
70°	12.5	10.8	9.2	7.8	7.1	6.2	5.1	4.2	3.9	3.5	3.2
72.5°	8.8	7.9	6.7	5.8	5.3	4.6	3.9	3.4	3.0	2.6	2.3
75°	6.4	5.6	4.9	4.2	3.9	3.5	3.0	2.6	2.3	1.9	1.6
77.5°	4.6	4.1	3.5	3.2	3.0	2.5	2.1	1.9	1.8	1.4	1.1
80°	3.2	2.8	2.3	2.1	2.1	1.8	1.6	1.4	1.2	0.9	0.7
82.5°	2.1	1.9	1.8	1.6	1.4	1.2	1.2	0.9	0.7	0.5	0.4
85°	1.6	1.4	1.2	1.1	1.1	0.9	0.7	0.5	0.5	0.4	0.2
87.5°	0.9	0.9	0.7	0.5	0.5	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°	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6
2.5°	677.6	678.1	681.1	678.8	684.6	688.9	686.7	691.5	689.9	689.6	695.0
5°	682.2	683.4	687.5	685.3	691.7	696.3	694.2	699.5	697.9	697.5	703.2
7.5°	691.0	692.2	695.7	694.0	700.7	704.7	702.1	707.9	705.8	705.6	711.1
10°	702.1	703.9	706.9	705.1	711.3	714.8	712.2	717.8	715.9	715.0	721.0
12.5°	710.4	711.6	714.6	713.2	719.2	721.9	719.6	725.0	722.6	721.9	727.2
15°	708.4	709.7	712.2	710.9	716.6	719.0	716.0	722.0	719.6	718.2	722.9
17.5°	696.1	696.8	698.6	697.3	703.3	704.9	701.6	707.6	705.3	702.8	707.4
20°	677.9	677.6	678.6	678.1	683.0	683.9	681.8	686.2	683.6	682.2	684.8
22.5°	655.3	655.0	655.7	654.3	659.2	659.7	656.6	661.9	659.2	656.6	661.0
25°	630.3	628.3	628.0	628.5	631.9	632.4	629.0	632.9	629.6	627.5	631.7
27.5°	599.4	596.9	596.4	596.9	600.3	597.8	595.0	597.8	594.5	592.5	595.2
30°	561.3	557.8	556.2	555.1	558.6	557.8	551.2	554.4	549.1	546.3	548.2
32.5°	509.9	508.0	503.8	501.3	504.6	497.9	493.9	493.9	491.8	487.0	488.1
35°	438.7	435.7	431.8	429.7	430.2	421.2	414.5	415.9	408.8	407.6	408.1
37.5°	348.5	343.5	342.1	337.7	338.8	330.8	321.7	321.8	318.1	314.3	313.0
40°	261.9	261.0	259.6	255.9	257.3	248.6	245.1	245.3	242.8	240.0	241.4
42.5°	202.4	199.6	198.7	197.4	197.8	196.4	191.8	192.3	190.2	189.5	188.8
45°	164.5	161.5	159.3	160.4	160.4	158.8	157.0	158.1	157.0	155.6	156.3
47.5°	135.5	132.7	131.6	131.5	132.7	131.6	129.9	130.2	130.0	129.5	129.2
50°	108.2	107.5	106.6	106.0	106.6	106.2	104.6	105.5	106.0	104.3	104.8
52.5°	82.4	82.4	82.2	81.0	82.0	81.0	80.8	81.2	80.6	79.9	79.8
55°	60.3	59.8	58.9	58.8	59.1	58.8	58.4	58.6	58.9	57.2	57.2
57.5°	41.3	40.9	40.4	40.4	41.1	40.2	39.7	40.4	39.7	39.0	39.0
60°	26.5	26.3	25.8	25.8	25.8	25.6	25.1	25.2	25.6	24.5	24.7
62.5°	15.9	15.4	15.2	15.0	15.2	15.0	15.0	14.8	14.6	14.6	14.1
65°	8.6	8.3	7.9	8.1	8.1	7.9	7.9	7.9	7.6	7.4	7.2
67.5°	4.4	4.1	4.1	3.9	3.9	3.9	3.9	3.7	3.7	3.7	3.5
70°	2.8	2.6	2.5	2.5	2.5	2.3	2.3	2.3	2.3	2.3	2.1
72.5°	1.9	1.8	1.6	1.6	1.6	1.4	1.4	1.4	1.4	1.2	1.2
75°	1.4	1.2	1.1	1.1	1.1	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	0.9	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.4
80°	0.5	0.5	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°	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6
2.5°	693.1	691.7	692.6	699.1	696.3	695.4	688.0	694.5
5°	701.4	700.3	700.3	707.7	704.4	703.7	696.5	702.1
7.5°	709.2	708.1	708.3	715.9	713.2	712.2	704.9	710.6
10°	719.2	718.5	718.7	725.9	723.1	722.0	714.6	720.4
12.5°	725.2	724.2	724.2	731.9	728.7	727.2	720.1	725.7
15°	720.6	719.0	719.0	726.8	723.3	721.0	714.8	720.1
17.5°	704.9	703.3	703.3	710.0	707.4	704.0	697.7	702.6
20°	683.0	681.1	680.6	688.3	684.6	681.6	676.0	680.7
22.5°	658.3	657.5	655.9	663.6	660.3	657.1	651.1	654.8
25°	628.7	627.3	625.7	633.3	629.9	626.8	622.0	625.0
27.5°	591.8	592.0	591.1	597.1	593.8	592.0	586.2	591.1
30°	547.2	545.2	544.5	551.6	548.4	546.1	538.9	543.6
32.5°	488.9	486.1	482.4	490.4	484.9	482.9	476.8	483.7
35°	404.2	403.4	400.0	406.7	403.7	400.2	396.3	402.1
37.5°	312.5	313.2	312.8	314.6	312.8	310.6	306.3	304.2
40°	238.6	236.8	235.4	238.6	234.9	234.9	232.4	235.0
42.5°	187.0	186.3	188.1	188.8	186.7	186.3	186.0	185.8
45°	154.4	154.4	154.7	155.5	154.7	154.4	153.3	152.6
47.5°	127.2	127.9	127.2	129.5	128.3	127.9	125.8	126.7
50°	103.0	102.2	103.0	103.8	103.9	102.9	101.8	102.3
52.5°	79.9	78.5	78.2	79.2	78.5	78.5	77.8	77.6
55°	56.3	56.8	55.9	56.8	56.5	55.9	55.4	56.1
57.5°	38.1	38.3	37.9	38.5	37.6	37.8	37.6	37.4
60°	24.7	24.0	24.0	24.5	23.6	23.6	23.5	23.5
62.5°	14.1	13.9	13.9	13.8	13.6	13.6	13.6	13.2
65°	7.2	7.1	6.9	6.9	6.9	6.9	6.7	6.7
67.5°	3.5	3.4	3.4	3.5	3.4	3.4	3.4	3.4
70°	2.1	2.1	1.9	2.1	1.9	1.9	1.9	1.9
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.5	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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