

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: P244146

Luminaire Tested: **LSR8B10D010 EC8B109727 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244146
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 EC8B109727 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 839.0 lumens
Efficiency: N/A
Efficacy: 82.3 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

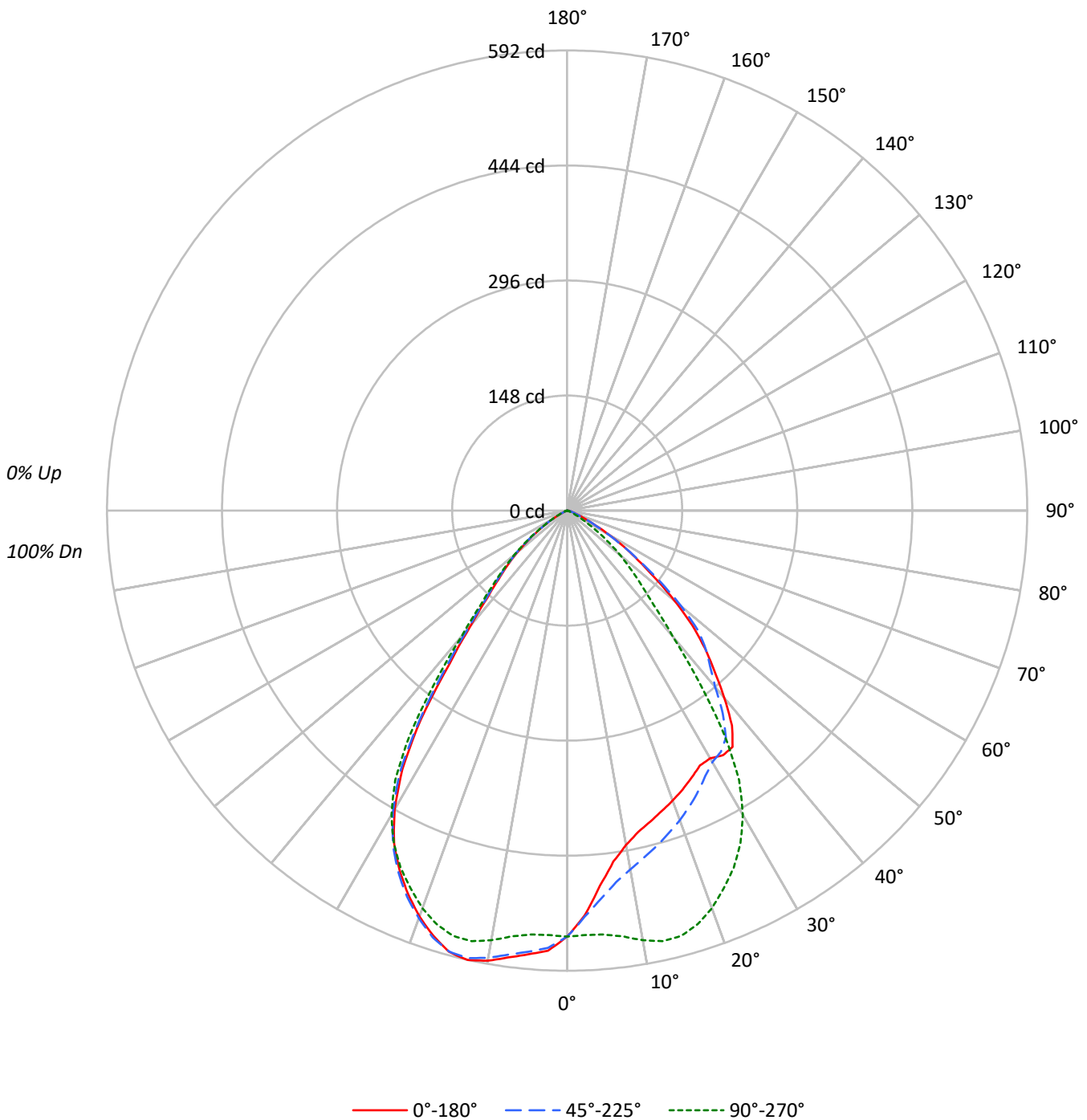
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16901	16901	16901
5°	14994	16944	17737
10°	13671	17572	18411
15°	13213	18085	18762
20°	13024	17865	18232
25°	12895	17247	17356
30°	13107	16094	15799
35°	13970	13319	12355
40°	12660	8526	7721
45°	10928	5835	5434
50°	8621	4255	4006
55°	5984	2618	2462
60°	3811	1326	1184
65°	1904	525	401
70°	1055	261	144
75°	751	191	71
80°	622	124	18
85°	672	106	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.1	6.1
10°-20°	147.5	17.6
20°-30°	214.2	25.5
30°-40°	210.9	25.1
40°-50°	132.2	15.8
50°-60°	63.8	7.6
60°-70°	15.4	1.8
70°-80°	3.1	0.4
80°-90°	0.7	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°	412.8	49.2
0°-40°	623.7	74.3
0°-60°	819.7	97.7
0°-90°	839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	839.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	548	548	548	548	548	
5°	484	501	547	570	573	45
15°	414	446	566	587	588	117
25°	379	399	507	514	510	175
35°	371	356	354	334	328	225
45°	251	252	134	128	125	192
55°	111	115	49	48	46	102
65°	26	26	7	6	6	30
75°	6	6	2	1	1	7
85°	2	1	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°	548.1	548.1	548.1	548.1	548.1	548.1	548.1	548.1	548.1	548.1	548.1
2.5°	521.0	517.7	511.5	519.0	519.0	514.8	523.2	518.1	522.2	528.5	522.9
5°	484.4	481.7	476.5	484.4	485.5	481.6	491.6	487.9	493.8	501.6	500.9
7.5°	455.5	452.0	447.3	455.5	457.1	454.5	464.1	462.4	470.2	480.3	482.0
10°	436.6	433.0	428.9	436.3	437.5	435.8	445.6	444.6	452.2	463.9	468.5
12.5°	423.2	420.2	415.6	423.5	424.8	422.4	431.6	431.2	439.1	451.3	457.1
15°	413.9	410.3	406.1	412.9	414.6	411.9	420.7	419.8	427.9	440.0	446.4
17.5°	405.1	401.8	397.5	403.8	405.5	402.7	411.3	409.9	416.8	428.3	434.9
20°	396.9	393.3	389.4	395.9	396.9	393.6	402.2	400.3	406.5	417.2	423.7
22.5°	388.4	384.7	380.6	387.0	388.0	384.7	392.6	390.4	396.2	405.8	411.7
25°	379.0	375.6	371.5	377.4	378.3	374.7	383.1	380.3	385.4	393.9	398.8
27.5°	369.7	366.4	361.9	367.9	368.4	364.9	372.6	368.8	373.0	380.8	384.9
30°	368.1	364.3	359.7	364.6	364.8	360.3	367.5	363.0	365.4	371.1	373.6
32.5°	373.1	369.4	364.6	368.7	368.2	363.3	370.2	364.8	365.5	368.5	367.9
35°	371.1	366.6	361.0	365.4	365.4	359.4	366.4	359.9	359.2	359.6	356.0
37.5°	348.2	344.8	339.4	343.6	343.2	338.7	344.0	338.7	336.3	335.3	328.8
40°	314.5	310.3	306.3	310.8	311.2	306.5	313.4	307.3	306.6	303.7	296.1
42.5°	280.4	278.9	275.1	278.8	280.8	276.8	282.5	279.7	280.1	279.4	272.2
45°	250.6	248.1	245.2	249.6	250.9	248.8	254.6	252.9	254.6	258.2	252.3
47.5°	218.5	216.0	212.8	217.5	219.8	216.0	220.9	220.3	222.9	229.1	228.5
50°	179.7	178.0	177.4	178.0	179.4	177.7	181.2	181.3	183.0	191.5	192.1
52.5°	142.3	141.8	139.8	141.7	141.7	139.0	142.4	140.8	142.6	148.3	152.1
55°	111.3	110.9	109.6	111.3	109.4	108.4	109.4	107.9	106.6	111.0	114.9
57.5°	86.7	85.3	83.7	84.4	84.2	82.1	83.2	81.4	80.4	81.9	85.4
60°	61.8	61.3	59.9	60.6	61.2	59.6	60.8	59.9	58.2	59.5	59.6
62.5°	41.0	41.3	40.5	40.6	40.2	39.9	40.6	41.0	40.6	40.0	40.2
65°	26.1	25.9	25.8	25.9	26.2	25.6	26.1	26.4	25.9	25.9	25.8
67.5°	17.3	16.8	16.4	16.7	17.0	16.6	17.0	16.8	17.0	16.8	16.4
70°	11.7	11.5	11.4	11.5	11.5	11.2	11.5	11.4	11.5	11.4	10.9
72.5°	8.5	8.5	8.4	8.5	8.5	8.2	8.4	8.1	8.2	8.1	7.8
75°	6.3	6.3	6.2	6.3	6.2	6.0	6.2	6.0	5.8	5.8	5.5
77.5°	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.3	4.2	4.0	4.0
80°	3.5	3.3	3.3	3.3	3.3	3.2	3.3	3.2	3.0	2.9	2.7
82.5°	2.4	2.6	2.4	2.4	2.4	2.3	2.4	2.3	2.3	2.2	1.9
85°	1.9	1.9	1.9	1.9	1.9	1.7	1.7	1.7	1.6	1.6	1.4
87.5°	1.0	1.0	1.0	1.2	1.0	1.0	1.0	0.9	0.9	0.7	0.7
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	548.1	548.1	548.1	548.1	548.1	548.1	548.1	548.1	548.1	548.1	548.1
2.5°	530.4	531.1	529.5	532.0	541.5	533.8	537.0	538.0	545.2	546.5	545.7
5°	510.2	513.4	515.4	520.9	531.4	525.9	531.5	535.1	544.4	547.4	548.1
7.5°	494.4	501.0	505.9	514.8	527.2	523.0	531.5	537.4	548.7	552.6	554.4
10°	482.6	492.7	501.2	513.4	527.4	524.6	535.7	544.1	556.6	561.2	563.5
12.5°	473.6	485.9	497.3	512.8	527.9	526.6	540.0	549.5	562.8	567.4	570.1
15°	463.9	478.0	491.2	508.6	524.9	524.6	539.0	549.1	562.6	566.5	569.1
17.5°	452.2	467.3	481.9	500.7	516.9	517.1	531.7	541.6	554.9	558.0	559.8
20°	440.4	455.4	469.9	489.3	505.2	505.6	519.9	529.1	541.8	544.4	544.8
22.5°	427.9	441.8	456.4	475.7	490.9	491.2	505.3	514.0	524.8	526.1	527.2
25°	413.6	427.3	441.0	460.1	474.7	475.5	488.3	496.0	505.9	506.9	507.3
27.5°	398.8	410.0	423.1	439.5	454.2	453.6	465.7	474.4	483.3	482.7	482.6
30°	383.8	393.1	401.2	417.1	427.9	428.3	439.7	443.8	453.2	452.0	451.9
32.5°	373.3	375.7	377.9	385.9	396.2	392.6	400.3	405.5	412.0	411.6	411.7
35°	354.0	349.5	343.0	344.2	350.4	344.8	348.9	348.8	355.4	353.8	355.7
37.5°	321.0	308.3	293.9	285.7	286.9	279.8	278.4	281.8	284.1	279.7	281.3
40°	285.9	267.1	244.7	226.0	224.9	216.2	214.6	211.1	215.6	211.8	213.0
42.5°	259.9	235.2	205.6	182.9	178.0	170.7	166.3	165.8	167.1	164.5	163.7
45°	240.1	213.7	179.9	153.8	148.3	140.4	136.1	134.5	134.6	133.8	133.1
47.5°	216.7	190.2	156.0	129.3	123.1	115.6	111.3	110.3	110.9	109.7	108.9
50°	184.5	160.7	129.5	105.1	99.7	94.2	90.7	89.7	89.6	88.7	88.1
52.5°	149.8	130.0	103.0	82.7	77.8	72.4	70.0	68.7	68.8	68.0	67.1
55°	115.9	103.7	79.8	62.5	58.0	53.9	51.6	50.0	49.5	48.7	48.2
57.5°	86.3	78.1	59.8	45.1	42.5	38.5	36.1	34.3	34.0	33.6	33.4
60°	60.5	54.6	42.1	32.1	29.1	26.6	24.3	22.5	21.6	21.5	21.0
62.5°	39.2	35.6	27.6	21.5	19.2	17.4	15.1	13.8	13.2	12.7	12.8
65°	24.3	21.6	17.3	13.8	12.5	11.2	9.5	8.4	7.8	7.2	7.3
67.5°	15.1	13.5	10.9	8.9	8.1	7.1	5.8	4.9	4.5	4.0	3.7
70°	10.2	8.8	7.5	6.3	5.8	5.0	4.2	3.5	3.2	2.9	2.6
72.5°	7.2	6.5	5.5	4.8	4.3	3.7	3.2	2.7	2.4	2.2	1.9
75°	5.2	4.6	4.0	3.5	3.2	2.9	2.4	2.2	1.9	1.6	1.3
77.5°	3.7	3.3	2.9	2.6	2.4	2.0	1.7	1.6	1.4	1.2	0.9
80°	2.6	2.3	1.9	1.7	1.7	1.4	1.3	1.2	1.0	0.7	0.6
82.5°	1.7	1.6	1.4	1.3	1.2	1.0	1.0	0.7	0.6	0.4	0.3
85°	1.3	1.2	1.0	0.9	0.9	0.7	0.6	0.4	0.4	0.3	0.1
87.5°	0.7	0.7	0.6	0.4	0.4	0.3	0.3	0.1	0.1	0.1	0.1
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°	548.1	548.1	548.1	548.1	548.1	548.1	548.1	548.1	548.1	548.1	548.1
2.5°	553.0	553.4	555.9	554.0	558.8	562.2	560.5	564.4	563.1	562.8	567.3
5°	556.7	557.8	561.1	559.3	564.5	568.3	566.5	570.9	569.6	569.3	573.9
7.5°	563.9	565.0	567.8	566.4	571.9	575.2	573.0	577.8	576.0	575.9	580.4
10°	573.0	574.5	576.9	575.5	580.5	583.4	581.2	585.8	584.2	583.5	588.4
12.5°	579.8	580.8	583.2	582.1	587.0	589.1	587.3	591.7	589.7	589.1	593.5
15°	578.2	579.2	581.2	580.2	584.8	586.8	584.4	589.3	587.3	586.1	590.0
17.5°	568.1	568.7	570.1	569.1	574.0	575.3	572.6	577.5	575.6	573.6	577.3
20°	553.3	553.0	553.9	553.4	557.5	558.2	556.5	560.1	557.9	556.7	558.9
22.5°	534.9	534.6	535.1	534.0	538.0	538.5	535.9	540.2	538.0	535.9	539.5
25°	514.4	512.8	512.5	513.0	515.7	516.1	513.4	516.6	513.8	512.1	515.6
27.5°	489.2	487.2	486.8	487.2	489.9	487.9	485.6	487.9	485.2	483.6	485.7
30°	458.1	455.2	453.9	453.1	455.9	455.2	449.9	452.5	448.2	445.9	447.4
32.5°	416.2	414.6	411.1	409.1	411.9	406.4	403.1	403.1	401.4	397.5	398.3
35°	358.0	355.6	352.4	350.7	351.1	343.8	338.3	339.4	333.7	332.7	333.1
37.5°	284.4	280.4	279.2	275.6	276.5	270.0	262.5	262.7	259.6	256.5	255.5
40°	213.7	213.0	211.8	208.8	210.0	202.9	200.0	200.2	198.2	195.9	197.0
42.5°	165.2	162.9	162.2	161.1	161.4	160.3	156.5	157.0	155.2	154.7	154.1
45°	134.2	131.8	130.0	130.9	130.9	129.6	128.2	129.0	128.2	127.0	127.6
47.5°	110.6	108.3	107.4	107.3	108.3	107.4	106.0	106.3	106.1	105.7	105.4
50°	88.3	87.7	87.0	86.5	87.0	86.7	85.4	86.1	86.5	85.1	85.5
52.5°	67.3	67.3	67.1	66.1	67.0	66.1	66.0	66.2	65.8	65.2	65.1
55°	49.3	48.8	48.1	48.0	48.2	48.0	47.7	47.8	48.1	46.7	46.7
57.5°	33.7	33.4	33.0	33.0	33.6	32.8	32.4	33.0	32.4	31.8	31.8
60°	21.6	21.5	21.0	21.0	21.0	20.9	20.4	20.6	20.9	20.0	20.2
62.5°	13.0	12.5	12.4	12.2	12.4	12.2	12.2	12.1	12.0	12.0	11.5
65°	7.1	6.8	6.5	6.6	6.6	6.5	6.5	6.5	6.2	6.0	5.9
67.5°	3.6	3.3	3.3	3.2	3.2	3.2	3.2	3.0	3.0	3.0	2.9
70°	2.3	2.2	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.7
72.5°	1.6	1.4	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.0	1.0
75°	1.2	1.0	0.9	0.9	0.9	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.3
80°	0.4	0.4	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1
82.5°	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
85°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
87.5°	0.1	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°	548.1	548.1	548.1	548.1	548.1	548.1	548.1	548.1
2.5°	565.7	564.5	565.2	570.6	568.3	567.5	561.5	566.8
5°	572.4	571.6	571.6	577.6	574.9	574.3	568.4	573.0
7.5°	578.8	577.9	578.1	584.2	582.1	581.2	575.3	579.9
10°	587.0	586.4	586.6	592.5	590.2	589.3	583.2	588.0
12.5°	591.9	591.0	591.0	597.4	594.8	593.5	587.7	592.3
15°	588.1	586.8	586.8	593.2	590.3	588.4	583.4	587.7
17.5°	575.3	574.0	574.0	579.5	577.3	574.6	569.4	573.4
20°	557.5	555.9	555.4	561.8	558.8	556.3	551.7	555.6
22.5°	537.3	536.6	535.3	541.6	538.9	536.3	531.4	534.4
25°	513.1	512.0	510.7	516.9	514.1	511.5	507.6	510.1
27.5°	483.0	483.2	482.4	487.3	484.6	483.2	478.4	482.4
30°	446.6	445.0	444.4	450.2	447.6	445.7	439.8	443.7
32.5°	399.1	396.7	393.7	400.2	395.7	394.2	389.1	394.7
35°	329.9	329.2	326.5	331.9	329.5	326.6	323.4	328.2
37.5°	255.0	255.6	255.3	256.8	255.3	253.5	250.0	248.3
40°	194.7	193.3	192.1	194.7	191.7	191.7	189.7	191.8
42.5°	152.7	152.1	153.5	154.1	152.4	152.1	151.8	151.6
45°	126.0	126.0	126.3	126.9	126.3	126.0	125.1	124.6
47.5°	103.8	104.4	103.8	105.7	104.7	104.4	102.7	103.4
50°	84.1	83.4	84.1	84.7	84.8	84.0	83.1	83.5
52.5°	65.2	64.1	63.8	64.7	64.1	64.1	63.5	63.4
55°	45.9	46.4	45.7	46.4	46.1	45.7	45.2	45.8
57.5°	31.1	31.3	31.0	31.4	30.7	30.8	30.7	30.5
60°	20.2	19.6	19.6	20.0	19.3	19.3	19.2	19.2
62.5°	11.5	11.4	11.4	11.2	11.1	11.1	11.1	10.8
65°	5.9	5.8	5.6	5.6	5.6	5.6	5.5	5.5
67.5°	2.9	2.7	2.7	2.9	2.7	2.7	2.7	2.7
70°	1.7	1.7	1.6	1.7	1.6	1.6	1.6	1.6
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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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