

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 EC8B10927 8LBSWOLI**

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 EC8B10927 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: 943.8 lumens
Efficiency: N/A
Efficacy: 92.5 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

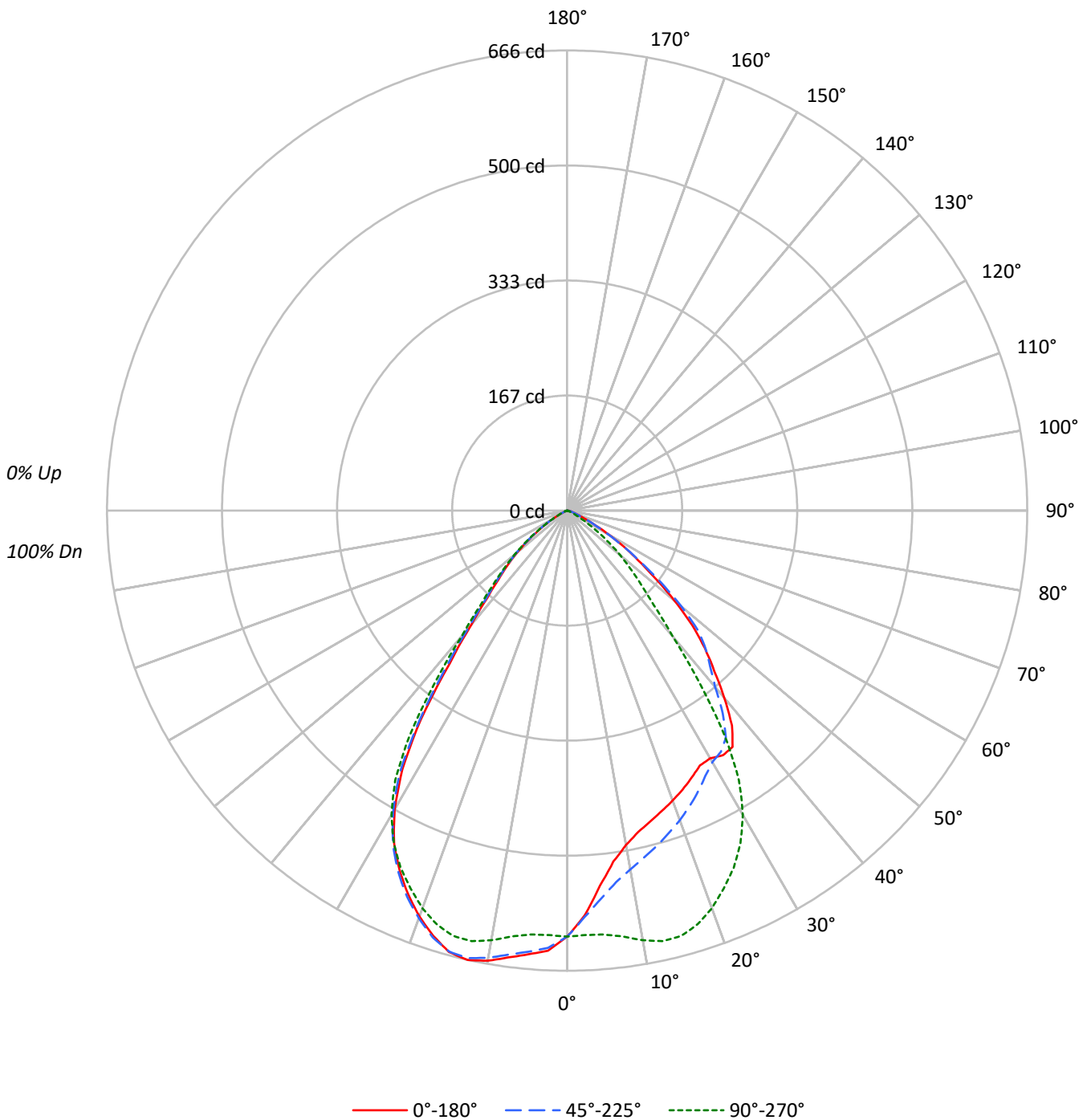
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	19014	19014	19014
5°	16867	19062	19953
10°	15380	19770	20713
15°	14864	20345	21108
20°	14652	20096	20513
25°	14508	19404	19526
30°	14745	18106	17775
35°	15716	14982	13898
40°	14242	9593	8687
45°	12293	6563	6114
50°	9700	4788	4505
55°	6731	2946	2769
60°	4286	1492	1332
65°	2145	591	452
70°	1190	298	162
75°	846	214	83
80°	693	142	18
85°	743	106	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	6.1
10°-20°	166.0	17.6
20°-30°	240.9	25.5
30°-40°	237.3	25.1
40°-50°	148.7	15.8
50°-60°	71.8	7.6
60°-70°	17.4	1.8
70°-80°	3.5	0.4
80°-90°	0.8	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°	464.4	49.2
0°-40°	701.7	74.3
0°-60°	922.2	97.7
0°-90°	943.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	943.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	617	617	617	617	617	
5°	545	564	616	641	645	50
15°	466	502	637	661	661	132
25°	426	449	570	578	574	197
35°	418	400	398	375	369	253
45°	282	284	150	144	140	216
55°	125	129	55	54	52	115
65°	29	29	8	7	6	33
75°	7	6	2	1	1	8
85°	2	2	0	0	0	2
90°	0	0	0	0	0	



TEST NUMBER: P244146

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6
2.5°	586.1	582.4	575.4	583.9	583.9	579.2	588.6	582.9	587.5	594.6	588.3
5°	544.9	541.9	536.1	544.9	546.2	541.8	553.1	548.9	555.5	564.3	563.5
7.5°	512.4	508.5	503.2	512.4	514.2	511.3	522.1	520.2	529.0	540.3	542.2
10°	491.2	487.1	482.5	490.8	492.2	490.3	501.3	500.2	508.7	521.9	527.1
12.5°	476.1	472.7	467.6	476.4	477.9	475.2	485.6	485.1	494.0	507.7	514.2
15°	465.6	461.6	456.9	464.5	466.4	463.4	473.3	472.3	481.4	495.0	502.2
17.5°	455.7	452.0	447.2	454.3	456.2	453.0	462.7	461.1	468.9	481.8	489.3
20°	446.5	442.5	438.1	445.4	446.5	442.8	452.5	450.3	457.3	469.4	476.7
22.5°	437.0	432.8	428.2	435.4	436.5	432.8	441.7	439.2	445.7	456.5	463.2
25°	426.4	422.6	417.9	424.6	425.6	421.5	431.0	427.8	433.6	443.1	448.6
27.5°	415.9	412.2	407.1	413.9	414.4	410.5	419.2	414.9	419.6	428.4	433.0
30°	414.1	409.8	404.7	410.2	410.4	405.3	413.4	408.4	411.1	417.5	420.3
32.5°	419.7	415.6	410.2	414.8	414.2	408.7	416.5	410.4	411.2	414.6	413.9
35°	417.5	412.4	406.1	411.1	411.1	404.3	412.2	404.9	404.1	404.6	400.5
37.5°	391.7	387.9	381.8	386.6	386.1	381.0	387.0	381.0	378.3	377.2	369.9
40°	353.8	349.1	344.6	349.7	350.1	344.8	352.6	345.7	344.9	341.7	333.1
42.5°	315.4	313.8	309.5	313.7	315.9	311.4	317.8	314.7	315.1	314.3	306.2
45°	281.9	279.1	275.8	280.8	282.3	279.9	286.4	284.5	286.4	290.5	283.8
47.5°	245.8	243.0	239.4	244.7	247.3	243.0	248.5	247.8	250.8	257.7	257.1
50°	202.2	200.2	199.6	200.2	201.8	199.9	203.8	204.0	205.9	215.4	216.1
52.5°	160.1	159.5	157.3	159.4	159.4	156.4	160.2	158.4	160.4	166.8	171.1
55°	125.2	124.8	123.3	125.2	123.1	122.0	123.1	121.4	119.9	124.9	129.3
57.5°	97.5	96.0	94.2	95.0	94.7	92.4	93.6	91.6	90.4	92.1	96.1
60°	69.5	69.0	67.4	68.2	68.9	67.0	68.4	67.4	65.5	66.9	67.0
62.5°	46.1	46.5	45.6	45.7	45.2	44.9	45.7	46.1	45.7	45.0	45.2
65°	29.4	29.1	29.0	29.1	29.5	28.8	29.4	29.7	29.1	29.1	29.0
67.5°	19.5	18.9	18.4	18.8	19.1	18.7	19.1	18.9	19.1	18.9	18.4
70°	13.2	12.9	12.8	12.9	12.9	12.6	12.9	12.8	12.9	12.8	12.3
72.5°	9.6	9.6	9.5	9.6	9.6	9.2	9.5	9.1	9.2	9.1	8.8
75°	7.1	7.1	7.0	7.1	7.0	6.8	7.0	6.8	6.5	6.5	6.2
77.5°	5.2	5.2	5.2	5.2	5.2	5.1	5.1	4.8	4.7	4.5	4.5
80°	3.9	3.7	3.7	3.7	3.7	3.6	3.7	3.6	3.4	3.3	3.0
82.5°	2.7	2.9	2.7	2.7	2.7	2.6	2.7	2.6	2.6	2.5	2.1
85°	2.1	2.1	2.1	2.1	2.1	1.9	1.9	1.9	1.8	1.8	1.6
87.5°	1.1	1.1	1.1	1.3	1.1	1.1	1.1	1.0	1.0	0.8	0.8
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°	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6
2.5°	596.7	597.5	595.7	598.5	609.2	600.5	604.1	605.2	613.4	614.8	613.9
5°	574.0	577.6	579.8	586.0	597.8	591.6	597.9	602.0	612.4	615.8	616.6
7.5°	556.2	563.6	569.1	579.2	593.1	588.4	597.9	604.6	617.3	621.7	623.7
10°	542.9	554.3	563.8	577.6	593.3	590.2	602.7	612.1	626.2	631.4	633.9
12.5°	532.8	546.6	559.5	576.9	593.9	592.4	607.5	618.2	633.2	638.3	641.4
15°	521.9	537.8	552.6	572.2	590.5	590.2	606.4	617.7	632.9	637.3	640.2
17.5°	508.7	525.7	542.1	563.3	581.5	581.7	598.2	609.3	624.3	627.8	629.8
20°	495.4	512.3	528.6	550.5	568.4	568.8	584.9	595.2	609.5	612.4	612.9
22.5°	481.4	497.0	513.4	535.2	552.3	552.6	568.5	578.2	590.4	591.9	593.1
25°	465.3	480.7	496.1	517.6	534.0	534.9	549.3	558.0	569.1	570.3	570.7
27.5°	448.6	461.2	476.0	494.4	511.0	510.3	523.9	533.7	543.7	543.0	542.9
30°	431.8	442.2	451.4	469.2	481.4	481.8	494.7	499.3	509.8	508.5	508.4
32.5°	420.0	422.7	425.1	434.1	445.7	441.7	450.3	456.2	463.5	463.0	463.2
35°	398.2	393.2	385.9	387.2	394.2	387.9	392.5	392.4	399.8	398.0	400.2
37.5°	361.1	346.8	330.6	321.4	322.8	314.8	313.2	317.0	319.6	314.7	316.5
40°	321.6	300.5	275.3	254.2	253.0	243.2	241.4	237.5	242.6	238.3	239.6
42.5°	292.4	264.6	231.3	205.8	200.2	192.0	187.1	186.5	188.0	185.1	184.2
45°	270.1	240.4	202.4	173.0	166.8	158.0	153.1	151.3	151.4	150.5	149.7
47.5°	243.8	214.0	175.5	145.5	138.5	130.0	125.2	124.1	124.8	123.4	122.5
50°	207.6	180.8	145.7	118.2	112.2	106.0	102.0	100.9	100.8	99.8	99.1
52.5°	168.5	146.2	115.9	93.0	87.5	81.4	78.8	77.3	77.4	76.5	75.5
55°	130.4	116.7	89.8	70.3	65.2	60.6	58.0	56.2	55.7	54.8	54.2
57.5°	97.1	87.9	67.3	50.7	47.8	43.3	40.6	38.6	38.2	37.8	37.6
60°	68.1	61.4	47.4	36.1	32.7	29.9	27.3	25.3	24.3	24.2	23.6
62.5°	44.1	40.1	31.0	24.2	21.6	19.6	17.0	15.5	14.8	14.3	14.4
65°	27.3	24.3	19.5	15.5	14.1	12.6	10.7	9.5	8.8	8.1	8.2
67.5°	17.0	15.2	12.3	10.0	9.1	8.0	6.5	5.5	5.1	4.5	4.2
70°	11.5	9.9	8.4	7.1	6.5	5.6	4.7	3.9	3.6	3.3	2.9
72.5°	8.1	7.3	6.2	5.4	4.8	4.2	3.6	3.0	2.7	2.5	2.1
75°	5.9	5.2	4.5	3.9	3.6	3.3	2.7	2.5	2.1	1.8	1.5
77.5°	4.2	3.7	3.3	2.9	2.7	2.2	1.9	1.8	1.6	1.3	1.0
80°	2.9	2.6	2.1	1.9	1.9	1.6	1.5	1.3	1.1	0.8	0.7
82.5°	1.9	1.8	1.6	1.5	1.3	1.1	1.1	0.8	0.7	0.4	0.3
85°	1.5	1.3	1.1	1.0	1.0	0.8	0.7	0.4	0.4	0.3	0.1
87.5°	0.8	0.8	0.7	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°	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6
2.5°	622.1	622.6	625.4	623.2	628.6	632.5	630.6	634.9	633.5	633.2	638.2
5°	626.3	627.5	631.2	629.2	635.1	639.3	637.3	642.3	640.8	640.5	645.6
7.5°	634.4	635.6	638.8	637.2	643.4	647.1	644.6	650.0	648.0	647.9	652.9
10°	644.6	646.3	649.0	647.4	653.1	656.3	653.8	659.0	657.2	656.4	661.9
12.5°	652.3	653.4	656.1	654.9	660.4	662.7	660.7	665.7	663.4	662.7	667.7
15°	650.5	651.6	653.8	652.7	657.9	660.2	657.4	663.0	660.7	659.4	663.8
17.5°	639.1	639.8	641.4	640.2	645.8	647.2	644.2	649.7	647.6	645.3	649.5
20°	622.5	622.1	623.1	622.6	627.2	628.0	626.1	630.1	627.6	626.3	628.8
22.5°	601.8	601.4	602.0	600.8	605.2	605.8	602.9	607.7	605.2	602.9	606.9
25°	578.7	576.9	576.6	577.1	580.2	580.6	577.6	581.2	578.0	576.1	580.1
27.5°	550.4	548.1	547.6	548.1	551.1	548.9	546.3	548.9	545.8	544.1	546.4
30°	515.4	512.1	510.6	509.7	512.9	512.1	506.1	509.1	504.2	501.6	503.3
32.5°	468.2	466.4	462.5	460.2	463.4	457.2	453.5	453.5	451.6	447.2	448.1
35°	402.8	400.0	396.4	394.5	395.0	386.8	380.6	381.8	375.4	374.3	374.7
37.5°	320.0	315.4	314.1	310.0	311.1	303.8	295.3	295.5	292.0	288.6	287.4
40°	240.4	239.6	238.3	234.9	236.2	228.3	225.0	225.2	223.0	220.4	221.6
42.5°	185.8	183.3	182.5	181.2	181.6	180.3	176.1	176.6	174.6	174.0	173.4
45°	151.0	148.3	146.2	147.3	147.3	145.8	144.2	145.1	144.2	142.9	143.5
47.5°	124.4	121.8	120.8	120.7	121.8	120.8	119.2	119.6	119.4	118.9	118.6
50°	99.3	98.7	97.9	97.3	97.9	97.5	96.1	96.9	97.3	95.7	96.2
52.5°	75.7	75.7	75.5	74.4	75.4	74.4	74.2	74.5	74.0	73.4	73.2
55°	55.5	54.9	54.1	54.0	54.2	54.0	53.7	53.8	54.1	52.5	52.5
57.5°	37.9	37.6	37.1	37.1	37.8	36.9	36.4	37.1	36.4	35.8	35.8
60°	24.3	24.2	23.6	23.6	23.6	23.5	23.0	23.2	23.5	22.5	22.7
62.5°	14.6	14.1	14.0	13.7	14.0	13.7	13.7	13.6	13.5	13.5	12.9
65°	8.0	7.6	7.3	7.4	7.4	7.3	7.3	7.3	7.0	6.8	6.6
67.5°	4.0	3.7	3.7	3.6	3.6	3.6	3.6	3.4	3.4	3.4	3.3
70°	2.6	2.5	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	1.9
72.5°	1.8	1.6	1.5	1.5	1.5	1.3	1.3	1.3	1.3	1.1	1.1
75°	1.3	1.1	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.7	0.7	0.7	0.7	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°	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6
2.5°	636.4	635.1	635.8	641.9	639.3	638.4	631.7	637.6
5°	643.9	643.1	643.1	649.8	646.8	646.1	639.4	644.6
7.5°	651.2	650.1	650.4	657.2	654.9	653.8	647.2	652.4
10°	660.4	659.7	659.9	666.6	664.0	663.0	656.1	661.5
12.5°	665.9	664.9	664.9	672.1	669.2	667.7	661.2	666.3
15°	661.6	660.2	660.2	667.4	664.1	661.9	656.3	661.2
17.5°	647.2	645.8	645.8	651.9	649.5	646.4	640.6	645.1
20°	627.2	625.4	624.8	632.0	628.6	625.8	620.7	625.1
22.5°	604.5	603.7	602.2	609.3	606.3	603.3	597.8	601.2
25°	577.2	576.0	574.5	581.5	578.4	575.4	571.1	573.9
27.5°	543.4	543.6	542.7	548.2	545.2	543.6	538.2	542.7
30°	502.4	500.6	500.0	506.5	503.6	501.4	494.8	499.2
32.5°	449.0	446.3	442.9	450.2	445.2	443.5	437.7	444.0
35°	371.1	370.3	367.3	373.4	370.7	367.4	363.8	369.2
37.5°	286.9	287.6	287.2	288.9	287.2	285.2	281.2	279.3
40°	219.0	217.5	216.1	219.0	215.7	215.7	213.4	215.8
42.5°	171.8	171.1	172.7	173.4	171.5	171.1	170.8	170.5
45°	141.8	141.8	142.1	142.8	142.1	141.8	140.7	140.2
47.5°	116.8	117.4	116.8	118.9	117.8	117.4	115.5	116.3
50°	94.6	93.8	94.6	95.3	95.4	94.5	93.5	93.9
52.5°	73.4	72.1	71.8	72.8	72.1	72.1	71.4	71.3
55°	51.6	52.2	51.4	52.2	51.9	51.4	50.8	51.5
57.5°	35.0	35.2	34.9	35.3	34.5	34.6	34.5	34.3
60°	22.7	22.0	22.0	22.5	21.7	21.7	21.6	21.6
62.5°	12.9	12.8	12.8	12.6	12.5	12.5	12.5	12.2
65°	6.6	6.5	6.3	6.3	6.3	6.3	6.2	6.2
67.5°	3.3	3.0	3.0	3.3	3.0	3.0	3.0	3.0
70°	1.9	1.9	1.8	1.9	1.8	1.8	1.8	1.8
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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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