

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: P246102

Luminaire Tested: **LSR8B10D010 EC8B10827 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B10D010 EC8B10827 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 960.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

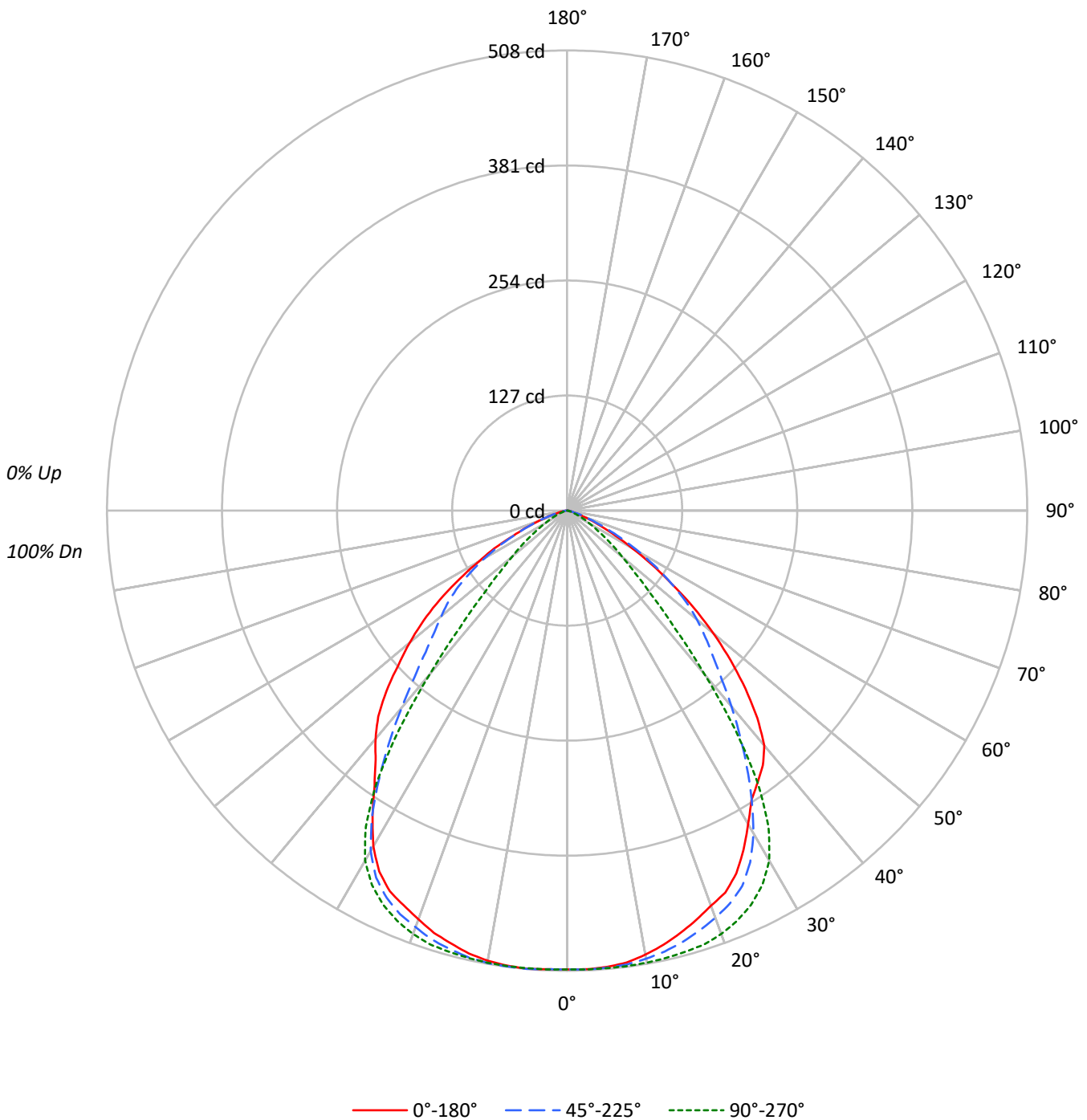
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	15619	15619	15619
5°	15653	15697	15712
10°	15587	15869	15800
15°	15416	16099	15796
20°	15230	16326	15755
25°	15032	16345	15774
30°	14221	15888	15236
35°	13797	13808	13951
40°	13626	9500	13244
45°	12141	5704	12306
50°	10093	3795	10880
55°	7570	2618	9225
60°	5131	1745	6957
65°	3094	1131	4779
70°	1713	613	2939
75°	774	262	1525
80°	675	284	1065
85°	778	389	1061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.3	5.0
10°-20°	140.4	14.6
20°-30°	213.1	22.2
30°-40°	223.8	23.3
40°-50°	167.8	17.5
50°-60°	107.7	11.2
60°-70°	46.1	4.8
70°-80°	10.9	1.1
80°-90°	2.0	0.2
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°	401.8	41.9
0°-40°	625.6	65.2
0°-60°	901.0	93.9
0°-90°	960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	960.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	506	506	506	506	506	
5°	506	506	507	508	508	48
15°	483	493	504	501	495	136
25°	442	457	480	472	464	202
35°	366	346	367	362	371	230
45°	278	228	131	221	282	213
55°	141	141	49	147	172	128
65°	42	50	16	64	66	45
75°	6	8	2	13	13	9
85°	2	1	1	2	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5
2.5°	506.8	507.3	507.1	507.1	506.8	507.1	507.1	507.6	507.6	507.1	506.8
5°	505.7	506.2	506.2	505.7	505.7	507.1	506.2	506.8	506.8	506.5	506.5
7.5°	503.3	503.3	504.3	503.5	503.5	504.3	504.1	504.6	505.2	505.4	505.4
10°	497.8	498.4	498.6	498.6	498.9	499.7	500.3	501.4	501.9	502.4	502.7
12.5°	491.0	491.8	492.1	491.8	492.7	493.7	495.1	496.5	497.3	498.4	499.2
15°	482.9	482.9	483.4	484.2	484.8	486.4	487.8	489.4	491.6	492.9	494.3
17.5°	473.9	474.4	475.2	475.2	476.3	479.1	479.9	482.3	484.8	486.1	488.8
20°	464.1	464.6	465.5	466.0	467.4	469.5	471.2	473.3	476.1	478.5	481.2
22.5°	456.5	455.4	455.9	456.5	457.9	459.8	461.7	464.4	467.1	469.5	472.3
25°	441.8	442.1	442.9	443.4	445.1	446.7	448.9	452.1	454.6	457.3	460.3
27.5°	422.0	422.2	423.6	423.6	424.9	427.7	429.0	431.7	435.0	437.7	441.3
30°	399.4	399.9	399.9	401.0	401.8	403.2	404.6	407.3	408.9	411.4	416.3
32.5°	378.7	379.3	379.0	378.7	377.9	377.6	377.4	377.9	378.5	379.3	381.2
35°	366.5	365.1	364.1	362.1	360.0	357.3	354.8	351.5	348.6	346.1	343.4
37.5°	354.8	354.5	352.9	350.2	345.8	340.9	335.2	328.2	321.1	313.5	306.1
40°	338.5	337.7	336.3	332.5	327.6	321.6	314.0	305.3	293.9	282.2	270.3
42.5°	310.8	311.0	309.4	306.4	301.8	296.1	288.2	278.7	266.4	252.6	237.1
45°	278.4	278.4	277.9	275.4	272.2	267.5	261.5	253.7	241.7	227.6	211.0
47.5°	244.7	245.0	244.1	243.6	242.2	239.3	234.9	228.9	220.5	206.9	190.3
50°	210.4	210.4	211.8	211.5	211.5	210.4	208.5	205.0	197.7	186.8	171.3
52.5°	176.2	176.7	177.5	178.6	180.0	182.2	180.0	178.4	173.7	165.3	152.0
55°	140.8	141.4	142.7	144.6	146.3	148.5	149.0	149.0	146.5	140.8	130.8
57.5°	110.7	109.8	110.9	112.6	114.7	116.9	118.5	120.4	120.2	116.4	108.2
60°	83.2	83.5	84.3	85.9	87.5	89.4	91.6	93.3	94.1	92.2	87.0
62.5°	60.6	60.6	61.7	63.3	64.2	66.9	68.2	69.1	69.9	69.6	66.3
65°	42.4	43.0	43.5	44.3	45.1	46.8	47.6	49.2	49.8	50.0	47.6
67.5°	29.9	29.1	29.6	30.2	31.0	32.1	33.7	33.7	34.5	34.5	32.9
70°	19.0	19.0	19.3	20.1	20.7	20.9	21.5	22.0	22.8	22.6	22.6
72.5°	12.8	12.5	12.8	13.1	13.3	14.1	14.1	14.4	15.0	15.2	14.1
75°	6.5	6.8	7.3	7.1	7.9	7.3	7.6	8.4	8.2	7.6	7.6
77.5°	5.4	5.4	5.4	5.2	5.7	5.7	5.4	6.0	5.7	5.7	5.4
80°	3.8	4.1	3.8	3.5	3.8	3.5	3.5	3.5	3.5	3.5	3.3
82.5°	3.0	2.4	2.7	2.4	2.7	2.7	2.4	2.2	2.2	2.4	2.2
85°	2.2	1.6	1.9	1.9	1.6	1.6	1.6	1.6	1.6	1.4	1.4
87.5°	1.4	0.8	0.8	0.8	1.1	1.1	1.1	0.8	1.1	1.1	0.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5
2.5°	507.3	507.1	507.6	507.3	507.3	507.1	507.3	507.1	507.6	506.5	506.8
5°	507.3	506.8	507.1	507.3	507.6	507.1	507.1	507.1	507.6	507.1	507.3
7.5°	506.2	506.0	506.8	507.3	507.1	506.8	507.3	507.1	507.6	507.3	507.9
10°	504.1	504.3	504.9	505.7	506.0	506.2	506.8	506.8	507.6	506.5	507.1
12.5°	500.8	501.9	503.3	503.8	504.9	504.9	505.4	505.7	506.2	506.0	506.8
15°	496.7	498.1	499.7	501.1	502.4	503.3	504.1	504.3	505.2	504.3	504.6
17.5°	491.8	493.5	495.9	497.5	499.7	500.5	501.6	502.2	503.0	502.4	502.7
20°	485.0	486.9	489.7	492.1	493.5	495.4	496.7	497.5	498.1	497.5	497.8
22.5°	475.5	478.2	481.8	483.7	486.4	488.0	488.3	490.2	491.6	490.2	490.7
25°	464.4	467.1	469.8	473.9	476.3	478.2	480.1	480.4	481.8	481.5	481.2
27.5°	445.9	449.4	454.0	457.3	460.6	463.6	465.7	466.3	467.6	467.1	467.4
30°	420.6	424.4	428.8	433.9	438.5	441.5	444.3	446.2	447.5	446.7	446.4
32.5°	384.7	388.5	393.1	398.3	403.7	408.1	411.4	413.8	415.4	414.9	413.5
35°	343.7	344.7	347.7	351.8	356.4	361.1	364.1	366.8	368.7	369.2	369.2
37.5°	301.5	298.0	295.8	295.8	298.5	300.4	303.1	304.8	307.8	308.9	309.7
40°	260.7	252.6	245.0	239.3	235.5	235.2	235.2	236.0	238.7	242.2	245.5
42.5°	224.3	211.3	199.6	189.0	181.3	177.0	175.1	175.4	177.5	180.8	186.2
45°	195.2	178.9	164.2	151.4	141.1	134.3	131.0	130.8	132.4	136.2	142.2
47.5°	172.6	155.2	138.7	124.0	112.8	105.5	101.7	100.6	101.7	105.2	112.3
50°	153.9	135.9	118.8	103.6	91.6	84.0	80.5	79.1	80.5	83.5	90.5
52.5°	136.5	118.0	102.0	87.3	74.5	68.0	64.2	63.3	64.2	67.7	73.4
55°	116.4	100.6	84.8	70.1	59.0	52.5	49.5	48.7	49.5	52.7	58.7
57.5°	96.5	82.9	69.1	55.7	46.2	40.5	37.8	36.7	38.6	40.8	47.9
60°	78.0	67.2	55.5	43.8	35.9	30.7	28.5	28.3	28.8	31.5	36.4
62.5°	61.2	52.2	43.0	33.4	26.9	24.7	22.0	21.8	22.3	23.9	27.7
65°	44.0	38.3	31.3	24.5	19.3	16.3	15.2	15.5	16.0	17.1	20.7
67.5°	30.7	26.6	21.8	17.1	13.3	12.0	10.9	10.6	10.9	12.8	14.7
70°	20.7	18.2	14.7	13.1	9.2	7.3	7.6	6.8	7.9	7.9	9.5
72.5°	13.6	12.0	9.8	7.6	6.5	5.2	5.2	4.9	5.4	5.7	7.1
75°	7.1	5.4	5.4	3.8	2.7	1.4	2.4	2.2	1.9	2.2	2.7
77.5°	4.9	4.1	3.8	3.0	2.7	2.2	2.2	2.2	2.2	2.4	2.7
80°	3.0	3.0	2.2	1.9	1.6	1.4	1.6	1.6	1.6	1.6	1.9
82.5°	1.9	1.6	1.6	1.4	1.4	1.1	1.1	1.1	1.1	1.1	1.6
85°	1.6	1.1	1.1	0.8	1.1	1.9	0.8	1.1	1.1	1.1	0.8
87.5°	0.5	0.8	0.8	0.8	0.5	0.3	0.5	0.8	0.8	1.4	1.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5
2.5°	507.3	507.6	507.6	507.3	507.3	506.8	507.9	507.1	507.3	508.4	507.6
5°	507.9	508.1	508.1	507.9	507.9	507.9	508.1	508.1	507.9	507.6	508.1
7.5°	509.0	508.7	508.7	508.1	508.1	507.6	508.1	507.3	507.9	507.3	508.1
10°	507.6	507.9	507.6	507.3	507.3	507.1	507.1	506.2	506.5	505.7	506.2
12.5°	506.8	506.5	506.5	506.0	505.4	504.9	504.6	503.8	503.8	501.9	502.7
15°	504.6	504.9	504.1	503.0	502.4	501.1	500.5	499.4	498.4	497.0	497.3
17.5°	502.7	501.9	500.8	499.7	497.5	496.5	495.4	493.7	493.2	491.6	491.0
20°	497.0	496.5	495.1	493.2	491.8	489.4	488.3	486.7	485.3	483.7	482.9
22.5°	489.7	489.1	487.5	485.6	483.4	482.3	481.2	478.2	476.9	475.2	475.0
25°	480.4	479.6	478.0	475.8	474.7	471.7	470.6	468.4	467.9	466.3	466.0
27.5°	466.3	465.2	463.3	460.6	458.7	456.8	455.7	454.0	453.5	451.9	451.6
30°	445.1	443.7	439.9	438.8	435.6	433.7	433.7	431.5	431.7	430.7	430.7
32.5°	411.6	409.5	406.5	404.3	402.1	401.0	401.0	400.2	400.8	400.8	401.3
35°	367.3	364.3	362.7	361.3	361.3	362.4	365.7	366.5	368.1	369.5	370.6
37.5°	310.5	310.2	312.1	313.8	317.8	322.5	328.2	333.1	337.7	340.9	344.2
40°	249.0	255.8	261.3	268.9	275.1	284.1	294.4	302.9	310.8	316.5	322.5
42.5°	194.4	203.1	214.5	225.7	236.8	249.0	262.6	274.3	284.7	292.5	298.8
45°	151.4	163.4	177.3	191.4	205.8	221.0	235.2	247.1	258.0	266.2	272.4
47.5°	122.1	135.1	150.9	166.4	182.7	198.7	214.5	224.8	233.8	240.3	246.1
50°	100.9	114.7	131.3	149.0	165.3	181.3	194.9	205.0	212.3	218.0	221.6
52.5°	84.3	99.0	116.6	134.3	150.6	165.3	177.5	185.2	191.1	195.2	198.5
55°	69.6	83.7	100.3	116.9	133.0	146.8	156.9	162.6	167.2	169.7	171.6
57.5°	56.8	69.9	85.1	100.3	114.2	125.6	133.5	139.2	141.4	143.3	143.0
60°	44.6	56.8	70.7	83.7	95.7	104.9	110.7	113.9	115.5	116.4	115.8
62.5°	35.1	46.2	56.8	68.2	76.9	84.8	90.3	90.3	91.1	91.4	92.2
65°	26.1	34.5	43.8	52.2	59.3	64.4	67.4	68.2	69.3	69.1	68.5
67.5°	19.3	25.6	32.4	38.6	43.5	46.8	48.9	50.8	50.6	50.0	49.8
70°	13.3	17.4	23.4	27.2	30.7	34.0	34.5	34.8	35.1	35.3	34.8
72.5°	9.2	12.2	15.5	18.8	20.9	22.3	23.7	23.9	23.9	23.9	23.7
75°	4.6	6.3	9.2	10.6	12.5	13.1	14.1	14.1	15.0	13.9	13.6
77.5°	4.1	4.9	6.5	7.6	8.4	9.2	9.5	10.3	10.1	9.5	9.8
80°	2.4	3.0	4.1	4.6	5.7	6.0	6.3	6.5	6.3	6.5	6.5
82.5°	1.9	2.2	2.7	2.7	3.5	3.5	3.8	3.8	4.1	4.1	4.1
85°	1.1	1.9	1.6	3.3	2.2	2.2	2.7	3.3	2.7	2.7	3.3
87.5°	1.1	1.1	0.8	1.1	1.1	1.1	1.4	1.6	1.6	1.9	1.6
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):

	165°	170°	175°	180°
0°	506.5	506.5	506.5	506.5
2.5°	507.3	507.9	507.1	506.8
5°	508.1	508.1	507.6	507.6
7.5°	508.1	508.1	507.3	506.8
10°	506.0	506.0	505.2	504.6
12.5°	501.9	501.9	501.6	500.8
15°	496.7	496.7	495.6	494.8
17.5°	489.7	490.2	488.8	488.8
20°	482.0	481.8	480.7	480.1
22.5°	474.2	473.6	473.3	471.7
25°	465.7	465.2	464.4	463.6
27.5°	451.3	451.1	450.2	449.2
30°	429.3	429.0	427.9	427.9
32.5°	400.8	400.5	399.4	399.7
35°	371.1	372.2	371.7	370.6
37.5°	346.4	347.2	347.7	347.2
40°	325.7	328.2	328.4	329.0
42.5°	303.7	307.0	308.0	308.6
45°	277.3	280.3	282.8	282.2
47.5°	250.4	252.6	254.8	253.1
50°	224.6	225.9	226.8	226.8
52.5°	200.1	200.1	199.8	200.1
55°	172.1	172.1	171.0	171.6
57.5°	142.7	143.3	142.5	141.1
60°	115.5	114.2	113.6	112.8
62.5°	90.0	90.0	88.1	90.5
65°	67.4	66.6	65.8	65.5
67.5°	48.9	48.7	47.9	47.6
70°	34.5	33.4	33.2	32.6
72.5°	23.1	23.1	22.6	22.6
75°	14.1	12.8	12.5	12.8
77.5°	9.8	9.5	9.5	9.2
80°	6.5	6.3	6.8	6.0
82.5°	4.1	4.4	4.1	4.4
85°	2.7	3.3	3.0	3.0
87.5°	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0

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