

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: P246174

Luminaire Tested: **LSR8B10D010 EC8B10827 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246174
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 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1072.0 lumens
Efficiency: N/A
Efficacy: 105.1 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

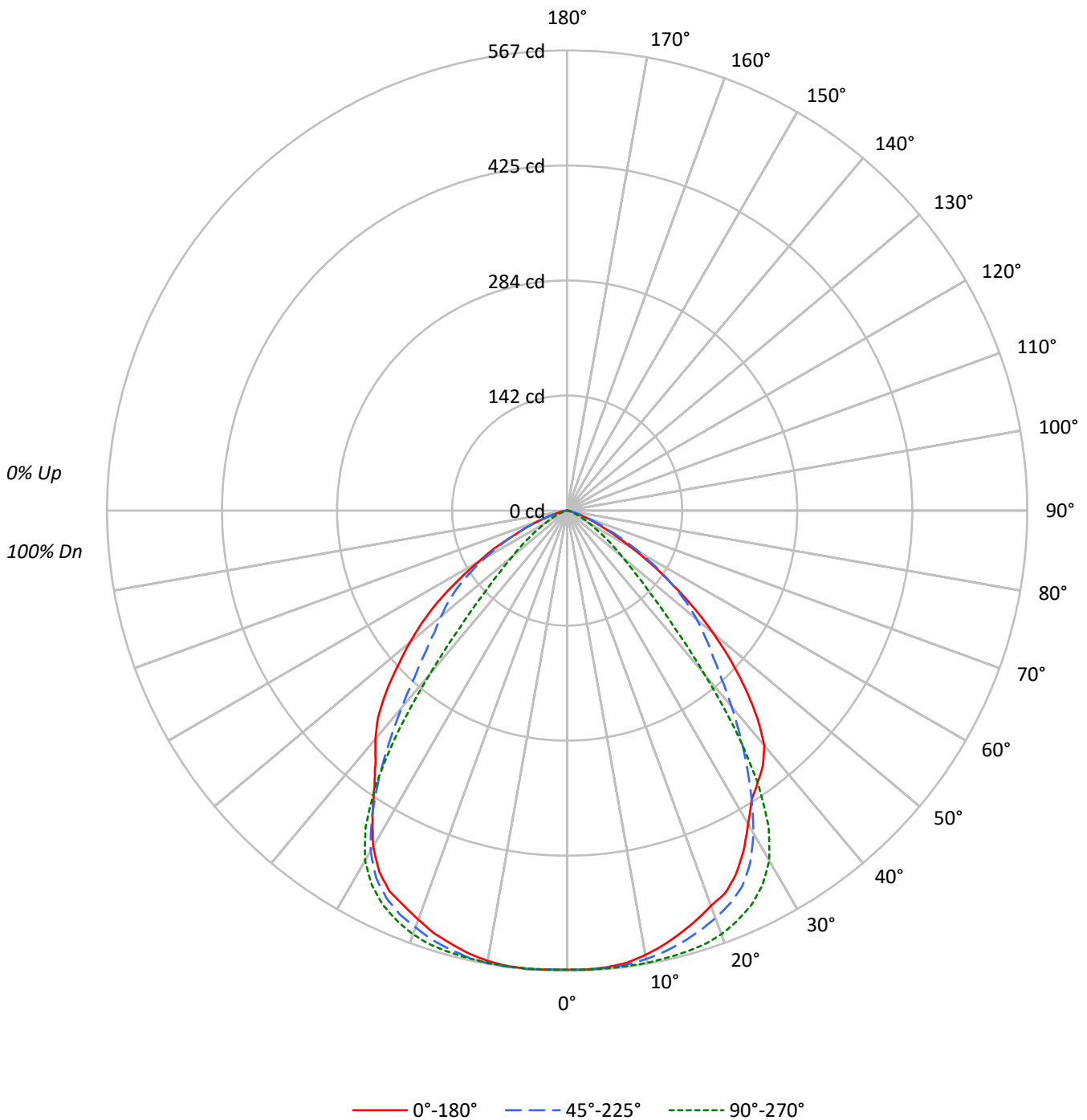
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	17441	17441	17441
5°	17480	17526	17545
10°	17406	17719	17644
15°	17213	17980	17641
20°	17008	18232	17596
25°	16787	18254	17611
30°	15881	17739	17016
35°	15408	15419	15577
40°	15216	10607	14789
45°	13558	6367	13741
50°	11274	4236	12147
55°	8457	2919	10301
60°	5729	1949	7771
65°	3459	1262	5341
70°	1920	685	3282
75°	870	286	1704
80°	746	320	1190
85°	849	425	1168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	5.0
10°-20°	156.8	14.6
20°-30°	237.9	22.2
30°-40°	249.9	23.3
40°-50°	187.4	17.5
50°-60°	120.2	11.2
60°-70°	51.4	4.8
70°-80°	12.2	1.1
80°-90°	2.2	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°	448.7	41.9
0°-40°	698.6	65.2
0°-60°	1006.2	93.9
0°-90°	1072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1072.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	566	566	566	566	566	
5°	565	566	566	567	567	54
15°	539	550	563	560	553	152
25°	493	511	536	527	518	225
35°	409	386	410	405	414	257
45°	311	254	146	247	315	238
55°	157	157	54	164	192	143
65°	47	56	17	72	73	51
75°	7	8	2	15	14	11
85°	2	2	1	2	3	3
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°	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6
2.5°	565.9	566.5	566.2	566.2	565.9	566.2	566.2	566.8	566.8	566.2	565.9
5°	564.7	565.3	565.3	564.7	564.7	566.2	565.3	565.9	565.9	565.6	565.6
7.5°	562.0	562.0	563.2	562.3	562.3	563.2	562.9	563.5	564.1	564.4	564.4
10°	555.9	556.5	556.8	556.8	557.1	558.0	558.6	559.8	560.4	561.1	561.4
12.5°	548.3	549.2	549.5	549.2	550.1	551.3	552.9	554.4	555.3	556.5	557.4
15°	539.2	539.2	539.8	540.7	541.3	543.1	544.7	546.5	548.9	550.4	551.9
17.5°	529.2	529.8	530.7	530.7	531.9	534.9	535.9	538.6	541.3	542.8	545.9
20°	518.3	518.9	519.8	520.4	521.9	524.3	526.1	528.6	531.6	534.3	537.4
22.5°	509.7	508.5	509.1	509.7	511.3	513.4	515.5	518.5	521.6	524.3	527.4
25°	493.4	493.7	494.6	495.2	497.0	498.8	501.2	504.9	507.6	510.7	514.0
27.5°	471.2	471.5	473.0	473.0	474.5	477.6	479.1	482.1	485.8	488.8	492.7
30°	446.0	446.6	446.6	447.8	448.7	450.2	451.8	454.8	456.6	459.3	464.8
32.5°	422.9	423.5	423.2	422.9	422.0	421.7	421.4	422.0	422.6	423.5	425.6
35°	409.3	407.7	406.5	404.4	402.0	398.9	396.2	392.6	389.2	386.5	383.5
37.5°	396.2	395.9	394.1	391.0	386.2	380.7	374.3	366.4	358.6	350.1	341.9
40°	378.0	377.1	375.6	371.3	365.8	359.2	350.7	340.9	328.2	315.1	301.8
42.5°	347.0	347.3	345.5	342.2	337.0	330.6	321.8	311.2	297.5	282.0	264.7
45°	310.9	310.9	310.3	307.5	303.9	298.7	292.1	283.3	269.9	254.1	235.6
47.5°	273.2	273.5	272.6	272.0	270.5	267.2	262.3	255.6	246.2	231.0	212.5
50°	235.0	235.0	236.5	236.2	236.2	235.0	232.9	228.9	220.7	208.6	191.3
52.5°	196.7	197.3	198.3	199.5	201.0	203.4	201.0	199.2	194.0	184.6	169.7
55°	157.3	157.9	159.4	161.5	163.3	165.8	166.4	166.4	163.6	157.3	146.0
57.5°	123.6	122.7	123.9	125.7	128.1	130.6	132.4	134.5	134.2	129.9	120.8
60°	92.9	93.2	94.1	95.9	97.8	99.9	102.3	104.1	105.0	102.9	97.2
62.5°	67.7	67.7	68.9	70.7	71.6	74.7	76.2	77.1	78.0	77.7	74.1
65°	47.4	48.0	48.6	49.5	50.4	52.2	53.1	54.9	55.6	55.9	53.1
67.5°	33.4	32.5	33.1	33.7	34.6	35.8	37.6	37.6	38.6	38.6	36.7
70°	21.3	21.3	21.6	22.5	23.1	23.4	24.0	24.6	25.5	25.2	25.2
72.5°	14.3	14.0	14.3	14.6	14.9	15.8	15.8	16.1	16.7	17.0	15.8
75°	7.3	7.6	8.2	7.9	8.8	8.2	8.5	9.4	9.1	8.5	8.5
77.5°	6.1	6.1	6.1	5.8	6.4	6.4	6.1	6.7	6.4	6.4	6.1
80°	4.2	4.6	4.2	3.9	4.2	3.9	3.9	3.9	3.9	3.9	3.6
82.5°	3.3	2.7	3.0	2.7	3.0	3.0	2.7	2.4	2.4	2.7	2.4
85°	2.4	1.8	2.1	2.1	1.8	1.8	1.8	1.8	1.8	1.5	1.5
87.5°	1.5	0.9	0.9	0.9	1.2	1.2	1.2	0.9	1.2	1.2	0.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6
2.5°	566.5	566.2	566.8	566.5	566.5	566.2	566.5	566.2	566.8	565.6	565.9
5°	566.5	565.9	566.2	566.5	566.8	566.2	566.2	566.2	566.8	566.2	566.5
7.5°	565.3	565.0	565.9	566.5	566.2	565.9	566.5	566.2	566.8	566.5	567.1
10°	562.9	563.2	563.8	564.7	565.0	565.3	565.9	565.9	566.8	565.6	566.2
12.5°	559.2	560.4	562.0	562.6	563.8	563.8	564.4	564.7	565.3	565.0	565.9
15°	554.7	556.2	558.0	559.5	561.1	562.0	562.9	563.2	564.1	563.2	563.5
17.5°	549.2	551.0	553.8	555.6	558.0	558.9	560.1	560.8	561.7	561.1	561.4
20°	541.6	543.8	546.8	549.5	551.0	553.2	554.7	555.6	556.2	555.6	555.9
22.5°	531.0	534.0	538.0	540.1	543.1	545.0	545.3	547.4	548.9	547.4	548.0
25°	518.5	521.6	524.6	529.2	531.9	534.0	536.2	536.5	538.0	537.7	537.4
27.5°	497.9	501.9	507.0	510.7	514.3	517.6	520.1	520.7	522.2	521.6	521.9
30°	469.7	473.9	478.8	484.5	489.7	493.0	496.1	498.2	499.7	498.8	498.5
32.5°	429.6	433.8	439.0	444.8	450.9	455.7	459.3	462.1	463.9	463.3	461.8
35°	383.8	385.0	388.3	392.9	398.0	403.2	406.5	409.6	411.7	412.3	412.3
37.5°	336.7	332.8	330.3	330.3	333.4	335.5	338.5	340.3	343.7	344.9	345.8
40°	291.2	282.0	273.5	267.2	262.9	262.6	262.6	263.5	266.6	270.5	274.2
42.5°	250.5	235.9	222.8	211.0	202.5	197.6	195.5	195.8	198.3	201.9	208.0
45°	218.0	199.8	183.4	169.1	157.6	150.0	146.3	146.0	147.9	152.1	158.8
47.5°	192.8	173.4	154.8	138.4	126.0	117.8	113.5	112.3	113.5	117.5	125.4
50°	171.8	151.8	132.7	115.7	102.3	93.8	89.9	88.3	89.9	93.2	101.1
52.5°	152.4	131.8	113.9	97.5	83.2	75.9	71.6	70.7	71.6	75.6	82.0
55°	129.9	112.3	94.7	78.3	65.9	58.6	55.3	54.3	55.3	58.9	65.6
57.5°	107.8	92.6	77.1	62.2	51.6	45.2	42.2	41.0	43.1	45.5	53.4
60°	87.1	75.0	61.9	48.9	40.1	34.3	31.9	31.6	32.2	35.2	40.7
62.5°	68.3	58.3	48.0	37.3	30.1	27.6	24.6	24.3	24.9	26.7	31.0
65°	49.2	42.8	34.9	27.3	21.6	18.2	17.0	17.3	17.9	19.1	23.1
67.5°	34.3	29.8	24.3	19.1	14.9	13.4	12.1	11.8	12.1	14.3	16.4
70°	23.1	20.3	16.4	14.6	10.3	8.2	8.5	7.6	8.8	8.8	10.6
72.5°	15.2	13.4	10.9	8.5	7.3	5.8	5.8	5.5	6.1	6.4	7.9
75°	7.9	6.1	6.1	4.2	3.0	1.5	2.7	2.4	2.1	2.4	3.0
77.5°	5.5	4.6	4.2	3.3	3.0	2.4	2.4	2.4	2.4	2.7	3.0
80°	3.3	3.3	2.4	2.1	1.8	1.5	1.8	1.8	1.8	1.8	2.1
82.5°	2.1	1.8	1.8	1.5	1.5	1.2	1.2	1.2	1.2	1.2	1.8
85°	1.8	1.2	1.2	0.9	1.2	2.1	0.9	1.2	1.2	1.2	0.9
87.5°	0.6	0.9	0.9	0.9	0.6	0.3	0.6	0.9	0.9	1.5	1.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6
2.5°	566.5	566.8	566.8	566.5	566.5	565.9	567.1	566.2	566.5	567.7	566.8
5°	567.1	567.4	567.4	567.1	567.1	567.1	567.4	567.4	567.1	566.8	567.4
7.5°	568.3	568.0	568.0	567.4	567.4	566.8	567.4	566.5	567.1	566.5	567.4
10°	566.8	567.1	566.8	566.5	566.5	566.2	566.2	565.3	565.6	564.7	565.3
12.5°	565.9	565.6	565.6	565.0	564.4	563.8	563.5	562.6	562.6	560.4	561.4
15°	563.5	563.8	562.9	561.7	561.1	559.5	558.9	557.7	556.5	555.0	555.3
17.5°	561.4	560.4	559.2	558.0	555.6	554.4	553.2	551.3	550.7	548.9	548.3
20°	555.0	554.4	552.9	550.7	549.2	546.5	545.3	543.4	541.9	540.1	539.2
22.5°	546.8	546.2	544.4	542.2	539.8	538.6	537.4	534.0	532.5	530.7	530.4
25°	536.5	535.6	533.7	531.3	530.1	526.7	525.5	523.1	522.5	520.7	520.4
27.5°	520.7	519.5	517.3	514.3	512.2	510.0	508.8	507.0	506.4	504.6	504.3
30°	497.0	495.5	491.2	490.0	486.4	484.2	484.2	481.8	482.1	480.9	480.9
32.5°	459.7	457.2	453.9	451.5	449.0	447.8	447.8	446.9	447.5	447.5	448.1
35°	410.2	406.8	405.0	403.5	403.5	404.7	408.3	409.3	411.1	412.6	413.8
37.5°	346.7	346.4	348.5	350.4	354.9	360.1	366.4	371.9	377.1	380.7	384.4
40°	278.1	285.7	291.8	300.3	307.2	317.3	328.8	338.2	347.0	353.4	360.1
42.5°	217.1	226.8	239.5	252.0	264.4	278.1	293.3	306.3	317.9	326.7	333.7
45°	169.1	182.5	198.0	213.7	229.8	246.8	262.6	276.0	288.1	297.2	304.2
47.5°	136.3	150.9	168.5	185.8	204.0	221.9	239.5	251.1	261.1	268.4	274.8
50°	112.6	128.1	146.6	166.4	184.6	202.5	217.7	228.9	237.1	243.5	247.4
52.5°	94.1	110.5	130.2	150.0	168.2	184.6	198.3	206.8	213.4	218.0	221.6
55°	77.7	93.5	112.0	130.6	148.5	163.9	175.2	181.6	186.7	189.4	191.6
57.5°	63.5	78.0	95.0	112.0	127.5	140.3	149.1	155.4	157.9	160.0	159.7
60°	49.8	63.5	78.9	93.5	106.9	117.2	123.6	127.2	129.0	129.9	129.3
62.5°	39.2	51.6	63.5	76.2	85.9	94.7	100.8	100.8	101.7	102.0	102.9
65°	29.1	38.6	48.9	58.3	66.2	72.0	75.3	76.2	77.4	77.1	76.5
67.5°	21.6	28.5	36.1	43.1	48.6	52.2	54.6	56.8	56.5	55.9	55.6
70°	14.9	19.4	26.1	30.4	34.3	38.0	38.6	38.9	39.2	39.5	38.9
72.5°	10.3	13.7	17.3	20.9	23.4	24.9	26.4	26.7	26.7	26.7	26.4
75°	5.2	7.0	10.3	11.8	14.0	14.6	15.8	15.8	16.7	15.5	15.2
77.5°	4.6	5.5	7.3	8.5	9.4	10.3	10.6	11.5	11.2	10.6	10.9
80°	2.7	3.3	4.6	5.2	6.4	6.7	7.0	7.3	7.0	7.3	7.3
82.5°	2.1	2.4	3.0	3.0	3.9	3.9	4.2	4.2	4.6	4.6	4.6
85°	1.2	2.1	1.8	3.6	2.4	2.4	3.0	3.6	3.0	3.0	3.6
87.5°	1.2	1.2	0.9	1.2	1.2	1.2	1.5	1.8	1.8	2.1	1.8
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):

	165°	170°	175°	180°
0°	565.6	565.6	565.6	565.6
2.5°	566.5	567.1	566.2	565.9
5°	567.4	567.4	566.8	566.8
7.5°	567.4	567.4	566.5	565.9
10°	565.0	565.0	564.1	563.5
12.5°	560.4	560.4	560.1	559.2
15°	554.7	554.7	553.5	552.6
17.5°	546.8	547.4	545.9	545.9
20°	538.3	538.0	536.8	536.2
22.5°	529.5	528.9	528.6	526.7
25°	520.1	519.5	518.5	517.6
27.5°	504.0	503.7	502.8	501.6
30°	479.4	479.1	477.9	477.9
32.5°	447.5	447.2	446.0	446.3
35°	414.4	415.6	415.0	413.8
37.5°	386.8	387.7	388.3	387.7
40°	363.7	366.4	366.8	367.4
42.5°	339.1	342.8	344.0	344.6
45°	309.7	313.0	315.7	315.1
47.5°	279.6	282.0	284.5	282.7
50°	250.8	252.3	253.2	253.2
52.5°	223.5	223.5	223.1	223.5
55°	192.2	192.2	191.0	191.6
57.5°	159.4	160.0	159.1	157.6
60°	129.0	127.5	126.9	126.0
62.5°	100.5	100.5	98.4	101.1
65°	75.3	74.4	73.5	73.2
67.5°	54.6	54.3	53.4	53.1
70°	38.6	37.3	37.0	36.4
72.5°	25.8	25.8	25.2	25.2
75°	15.8	14.3	14.0	14.3
77.5°	10.9	10.6	10.6	10.3
80°	7.3	7.0	7.6	6.7
82.5°	4.6	4.9	4.6	4.9
85°	3.0	3.6	3.3	3.3
87.5°	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0

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