

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: P246079

Luminaire Tested: **LSR8B15D010 EC8B15940 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246079
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: LSR8B15D010 EC8B15940 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1363.0 lumens
Efficiency: N/A
Efficacy: 94.7 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

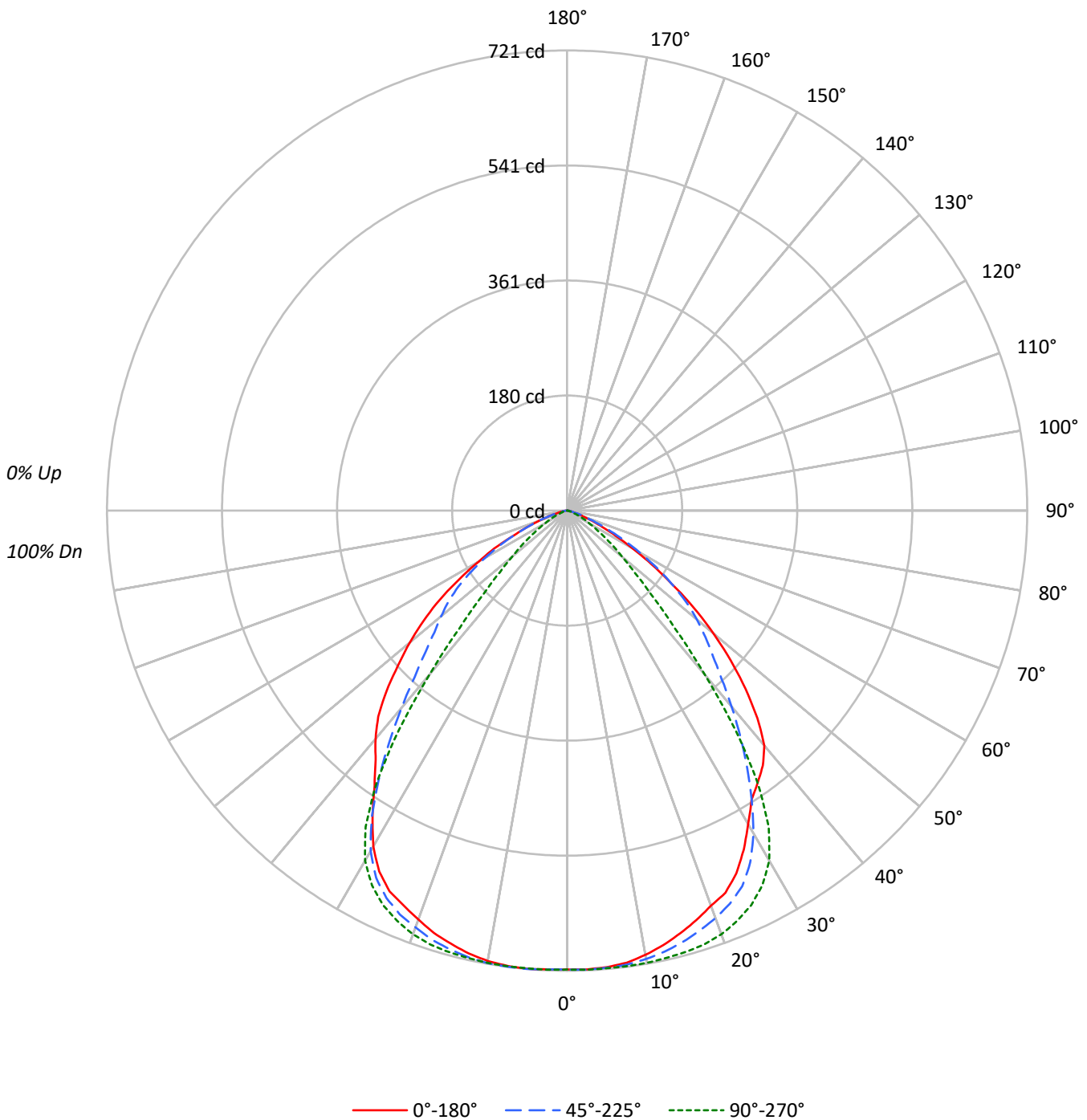
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	51	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°	22174	22174	22174
5°	22225	22284	22309
10°	22131	22529	22432
15°	21887	22861	22430
20°	21622	23181	22370
25°	21343	23208	22395
30°	20193	22553	21635
35°	19590	19601	19805
40°	19346	13489	18803
45°	17239	8098	17474
50°	14334	5387	15442
55°	10752	3715	13096
60°	7284	2473	9880
65°	4392	1605	6786
70°	2434	875	4174
75°	1108	369	2156
80°	959	408	1509
85°	1097	531	1521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	5.0
10°-20°	199.3	14.6
20°-30°	302.5	22.2
30°-40°	317.7	23.3
40°-50°	238.2	17.5
50°-60°	152.8	11.2
60°-70°	65.4	4.8
70°-80°	15.5	1.1
80°-90°	2.9	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°	570.5	41.9
0°-40°	888.2	65.2
0°-60°	1279.3	93.9
0°-90°	1363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1363.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	719	719	719	719	719	
5°	718	719	720	721	721	68
15°	686	700	716	711	703	193
25°	627	649	682	670	658	287
35°	520	491	521	515	526	327
45°	395	323	186	314	401	303
55°	200	200	69	208	244	181
65°	60	71	22	92	93	64
75°	9	11	3	18	18	13
85°	3	2	2	3	4	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°	719.1	719.1	719.1	719.1	719.1	719.1	719.1	719.1	719.1	719.1	719.1
2.5°	719.5	720.3	719.9	719.9	719.5	719.9	719.9	720.7	720.7	719.9	719.5
5°	718.0	718.8	718.8	718.0	718.0	719.9	718.8	719.5	719.5	719.1	719.1
7.5°	714.5	714.5	716.1	714.9	714.9	716.1	715.7	716.4	717.2	717.6	717.6
10°	706.8	707.6	708.0	708.0	708.3	709.5	710.3	711.8	712.6	713.4	713.7
12.5°	697.1	698.3	698.7	698.3	699.5	701.0	702.9	704.9	706.0	707.6	708.7
15°	685.6	685.6	686.3	687.5	688.3	690.6	692.5	694.8	697.9	699.8	701.8
17.5°	672.8	673.6	674.8	674.8	676.3	680.2	681.3	684.8	688.3	690.2	694.1
20°	658.9	659.7	660.9	661.6	663.6	666.6	669.0	672.1	675.9	679.4	683.2
22.5°	648.1	646.6	647.3	648.1	650.1	652.8	655.5	659.3	663.2	666.6	670.5
25°	627.3	627.7	628.8	629.6	631.9	634.2	637.3	641.9	645.4	649.3	653.5
27.5°	599.1	599.5	601.4	601.4	603.3	607.2	609.1	613.0	617.6	621.5	626.5
30°	567.1	567.8	567.8	569.4	570.5	572.5	574.4	578.3	580.6	584.0	591.0
32.5°	537.7	538.5	538.1	537.7	536.6	536.2	535.8	536.6	537.3	538.5	541.2
35°	520.4	518.4	516.9	514.2	511.1	507.2	503.7	499.1	494.9	491.4	487.5
37.5°	503.7	503.4	501.0	497.2	491.0	484.1	476.0	465.9	455.9	445.1	434.7
40°	480.6	479.4	477.5	472.1	465.1	456.7	445.8	433.5	417.3	400.7	383.7
42.5°	441.2	441.6	439.3	435.0	428.5	420.4	409.2	395.7	378.3	358.6	336.6
45°	395.3	395.3	394.5	391.0	386.4	379.8	371.3	360.2	343.2	323.1	299.5
47.5°	347.4	347.8	346.6	345.9	343.9	339.7	333.5	325.0	313.1	293.8	270.2
50°	298.8	298.8	300.7	300.3	300.3	298.8	296.1	291.1	280.6	265.2	243.2
52.5°	250.1	250.9	252.1	253.6	255.5	258.6	255.5	253.2	246.7	234.7	215.8
55°	200.0	200.7	202.7	205.4	207.7	210.8	211.5	211.5	208.1	200.0	185.7
57.5°	157.1	155.9	157.5	159.8	162.9	166.0	168.3	171.0	170.6	165.2	153.6
60°	118.1	118.5	119.7	122.0	124.3	127.0	130.1	132.4	133.6	130.9	123.5
62.5°	86.1	86.1	87.6	89.9	91.1	95.0	96.9	98.1	99.2	98.8	94.2
65°	60.2	61.0	61.8	62.9	64.1	66.4	67.6	69.9	70.6	71.0	67.6
67.5°	42.5	41.3	42.1	42.8	44.0	45.6	47.9	47.9	49.0	49.0	46.7
70°	27.0	27.0	27.4	28.6	29.3	29.7	30.5	31.3	32.4	32.0	32.0
72.5°	18.1	17.8	18.1	18.5	18.9	20.1	20.1	20.5	21.2	21.6	20.1
75°	9.3	9.7	10.4	10.0	11.2	10.4	10.8	12.0	11.6	10.8	10.8
77.5°	7.7	7.7	7.7	7.3	8.1	8.1	7.7	8.5	8.1	8.1	7.7
80°	5.4	5.8	5.4	5.0	5.4	5.0	5.0	5.0	5.0	5.0	4.6
82.5°	4.3	3.5	3.9	3.5	3.9	3.9	3.5	3.1	3.1	3.5	3.1
85°	3.1	2.3	2.7	2.7	2.3	2.3	2.3	2.3	2.3	1.9	1.9
87.5°	1.9	1.2	1.2	1.2	1.5	1.5	1.5	1.2	1.5	1.5	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	719.1	719.1	719.1	719.1	719.1	719.1	719.1	719.1	719.1	719.1	719.1
2.5°	720.3	719.9	720.7	720.3	720.3	719.9	720.3	719.9	720.7	719.1	719.5
5°	720.3	719.5	719.9	720.3	720.7	719.9	719.9	719.9	720.7	719.9	720.3
7.5°	718.8	718.4	719.5	720.3	719.9	719.5	720.3	719.9	720.7	720.3	721.1
10°	715.7	716.1	716.8	718.0	718.4	718.8	719.5	719.5	720.7	719.1	719.9
12.5°	711.0	712.6	714.5	715.3	716.8	716.8	717.6	718.0	718.8	718.4	719.5
15°	705.3	707.2	709.5	711.4	713.4	714.5	715.7	716.1	717.2	716.1	716.4
17.5°	698.3	700.6	704.1	706.4	709.5	710.7	712.2	713.0	714.1	713.4	713.7
20°	688.6	691.4	695.2	698.7	700.6	703.3	705.3	706.4	707.2	706.4	706.8
22.5°	675.1	679.0	684.0	686.7	690.6	692.9	693.3	696.0	697.9	696.0	696.8
25°	659.3	663.2	667.0	672.8	676.3	679.0	681.7	682.1	684.0	683.6	683.2
27.5°	633.1	638.1	644.6	649.3	653.9	658.2	661.2	662.0	663.9	663.2	663.6
30°	597.2	602.6	608.8	616.1	622.6	626.9	630.7	633.4	635.4	634.2	633.8
32.5°	546.2	551.6	558.2	565.5	573.2	579.4	584.0	587.5	589.8	589.1	587.1
35°	487.9	489.5	493.7	499.5	506.1	512.6	516.9	520.7	523.4	524.2	524.2
37.5°	428.1	423.1	420.0	420.0	423.8	426.5	430.4	432.7	437.0	438.5	439.7
40°	370.2	358.6	347.8	339.7	334.3	333.9	333.9	335.1	338.9	343.9	348.6
42.5°	318.5	299.9	283.3	268.3	257.5	251.3	248.6	249.0	252.1	256.7	264.4
45°	277.2	254.0	233.2	215.0	200.3	190.7	186.1	185.7	188.0	193.4	201.9
47.5°	245.1	220.4	196.9	176.0	160.2	149.8	144.4	142.8	144.4	149.4	159.4
50°	218.5	193.0	168.7	147.1	130.1	119.3	114.3	112.3	114.3	118.5	128.5
52.5°	193.8	167.5	144.8	123.9	105.8	96.5	91.1	89.9	91.1	96.1	104.2
55°	165.2	142.8	120.4	99.6	83.8	74.5	70.3	69.1	70.3	74.9	83.4
57.5°	137.0	117.7	98.1	79.1	65.6	57.5	53.7	52.1	54.8	57.9	67.9
60°	110.8	95.3	78.7	62.1	51.0	43.6	40.5	40.1	40.9	44.8	51.7
62.5°	86.9	74.1	61.0	47.5	38.2	35.1	31.3	30.9	31.7	34.0	39.4
65°	62.5	54.4	44.4	34.7	27.4	23.2	21.6	22.0	22.8	24.3	29.3
67.5°	43.6	37.8	30.9	24.3	18.9	17.0	15.4	15.1	15.4	18.1	20.8
70°	29.3	25.9	20.8	18.5	13.1	10.4	10.8	9.7	11.2	11.2	13.5
72.5°	19.3	17.0	13.9	10.8	9.3	7.3	7.3	7.0	7.7	8.1	10.0
75°	10.0	7.7	7.7	5.4	3.9	1.9	3.5	3.1	2.7	3.1	3.9
77.5°	7.0	5.8	5.4	4.3	3.9	3.1	3.1	3.1	3.1	3.5	3.9
80°	4.3	4.3	3.1	2.7	2.3	1.9	2.3	2.3	2.3	2.3	2.7
82.5°	2.7	2.3	2.3	1.9	1.9	1.5	1.5	1.5	1.5	1.5	2.3
85°	2.3	1.5	1.5	1.2	1.5	2.7	1.2	1.5	1.5	1.5	1.2
87.5°	0.8	1.2	1.2	1.2	0.8	0.4	0.8	1.2	1.2	1.9	1.5
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	719.1	719.1	719.1	719.1	719.1	719.1	719.1	719.1	719.1	719.1	719.1
2.5°	720.3	720.7	720.7	720.3	720.3	719.5	721.1	719.9	720.3	721.8	720.7
5°	721.1	721.5	721.5	721.1	721.1	721.1	721.5	721.5	721.1	720.7	721.5
7.5°	722.6	722.2	722.2	721.5	721.5	720.7	721.5	720.3	721.1	720.3	721.5
10°	720.7	721.1	720.7	720.3	720.3	719.9	719.9	718.8	719.1	718.0	718.8
12.5°	719.5	719.1	719.1	718.4	717.6	716.8	716.4	715.3	715.3	712.6	713.7
15°	716.4	716.8	715.7	714.1	713.4	711.4	710.7	709.1	707.6	705.6	706.0
17.5°	713.7	712.6	711.0	709.5	706.4	704.9	703.3	701.0	700.2	697.9	697.1
20°	705.6	704.9	702.9	700.2	698.3	694.8	693.3	691.0	689.0	686.7	685.6
22.5°	695.2	694.4	692.1	689.4	686.3	684.8	683.2	679.0	677.1	674.8	674.4
25°	682.1	680.9	678.6	675.5	674.0	669.7	668.2	665.1	664.3	662.0	661.6
27.5°	662.0	660.5	657.8	653.9	651.2	648.5	647.0	644.6	643.9	641.6	641.2
30°	631.9	630.0	624.6	623.0	618.4	615.7	615.7	612.6	613.0	611.5	611.5
32.5°	584.4	581.3	577.1	574.0	570.9	569.4	569.4	568.2	569.0	569.0	569.8
35°	521.5	517.3	514.9	513.0	513.0	514.6	519.2	520.4	522.7	524.6	526.1
37.5°	440.8	440.4	443.1	445.5	451.3	457.8	465.9	472.9	479.4	484.1	488.7
40°	353.6	363.2	371.0	381.8	390.6	403.4	418.1	430.0	441.2	449.3	457.8
42.5°	276.0	288.4	304.6	320.4	336.2	353.6	372.9	389.5	404.2	415.4	424.2
45°	215.0	232.0	251.7	271.8	292.2	313.8	333.9	350.9	366.3	377.9	386.8
47.5°	173.3	191.9	214.2	236.2	259.4	282.2	304.6	319.2	332.0	341.2	349.3
50°	143.2	162.9	186.4	211.5	234.7	257.5	276.8	291.1	301.5	309.6	314.6
52.5°	119.7	140.5	165.6	190.7	213.8	234.7	252.1	262.9	271.4	277.2	281.8
55°	98.8	118.9	142.4	166.0	188.8	208.4	222.7	230.8	237.4	240.9	243.6
57.5°	80.7	99.2	120.8	142.4	162.1	178.3	189.5	197.6	200.7	203.4	203.0
60°	63.3	80.7	100.4	118.9	135.9	149.0	157.1	161.7	164.1	165.2	164.4
62.5°	49.8	65.6	80.7	96.9	109.2	120.4	128.2	128.2	129.3	129.7	130.9
65°	37.1	49.0	62.1	74.1	84.1	91.5	95.7	96.9	98.4	98.1	97.3
67.5°	27.4	36.3	45.9	54.8	61.8	66.4	69.5	72.2	71.8	71.0	70.6
70°	18.9	24.7	33.2	38.6	43.6	48.3	49.0	49.4	49.8	50.2	49.4
72.5°	13.1	17.4	22.0	26.6	29.7	31.7	33.6	34.0	34.0	34.0	33.6
75°	6.6	8.9	13.1	15.1	17.8	18.5	20.1	20.1	21.2	19.7	19.3
77.5°	5.8	7.0	9.3	10.8	12.0	13.1	13.5	14.7	14.3	13.5	13.9
80°	3.5	4.3	5.8	6.6	8.1	8.5	8.9	9.3	8.9	9.3	9.3
82.5°	2.7	3.1	3.9	3.9	5.0	5.0	5.4	5.4	5.8	5.8	5.8
85°	1.5	2.7	2.3	4.6	3.1	3.1	3.9	4.6	3.9	3.9	4.6
87.5°	1.5	1.5	1.2	1.5	1.5	1.5	1.9	2.3	2.3	2.7	2.3
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°	719.1	719.1	719.1	719.1
2.5°	720.3	721.1	719.9	719.5
5°	721.5	721.5	720.7	720.7
7.5°	721.5	721.5	720.3	719.5
10°	718.4	718.4	717.2	716.4
12.5°	712.6	712.6	712.2	711.0
15°	705.3	705.3	703.7	702.6
17.5°	695.2	696.0	694.1	694.1
20°	684.4	684.0	682.5	681.7
22.5°	673.2	672.4	672.1	669.7
25°	661.2	660.5	659.3	658.2
27.5°	640.8	640.4	639.2	637.7
30°	609.5	609.1	607.6	607.6
32.5°	569.0	568.6	567.1	567.4
35°	526.9	528.5	527.7	526.1
37.5°	491.8	492.9	493.7	492.9
40°	462.4	465.9	466.3	467.1
42.5°	431.2	435.8	437.4	438.1
45°	393.7	398.0	401.5	400.7
47.5°	355.5	358.6	361.7	359.4
50°	318.8	320.8	321.9	321.9
52.5°	284.1	284.1	283.7	284.1
55°	244.3	244.3	242.8	243.6
57.5°	202.7	203.4	202.3	200.3
60°	164.1	162.1	161.4	160.2
62.5°	127.8	127.8	125.1	128.5
65°	95.7	94.6	93.4	93.0
67.5°	69.5	69.1	67.9	67.6
70°	49.0	47.5	47.1	46.3
72.5°	32.8	32.8	32.0	32.0
75°	20.1	18.1	17.8	18.1
77.5°	13.9	13.5	13.5	13.1
80°	9.3	8.9	9.7	8.5
82.5°	5.8	6.2	5.8	6.2
85°	3.9	4.6	4.3	4.3
87.5°	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0

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