

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: P245503

Luminaire Tested: **LSR8B15D010 EC8B15940 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B15D010 EC8B15940 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1406.0 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

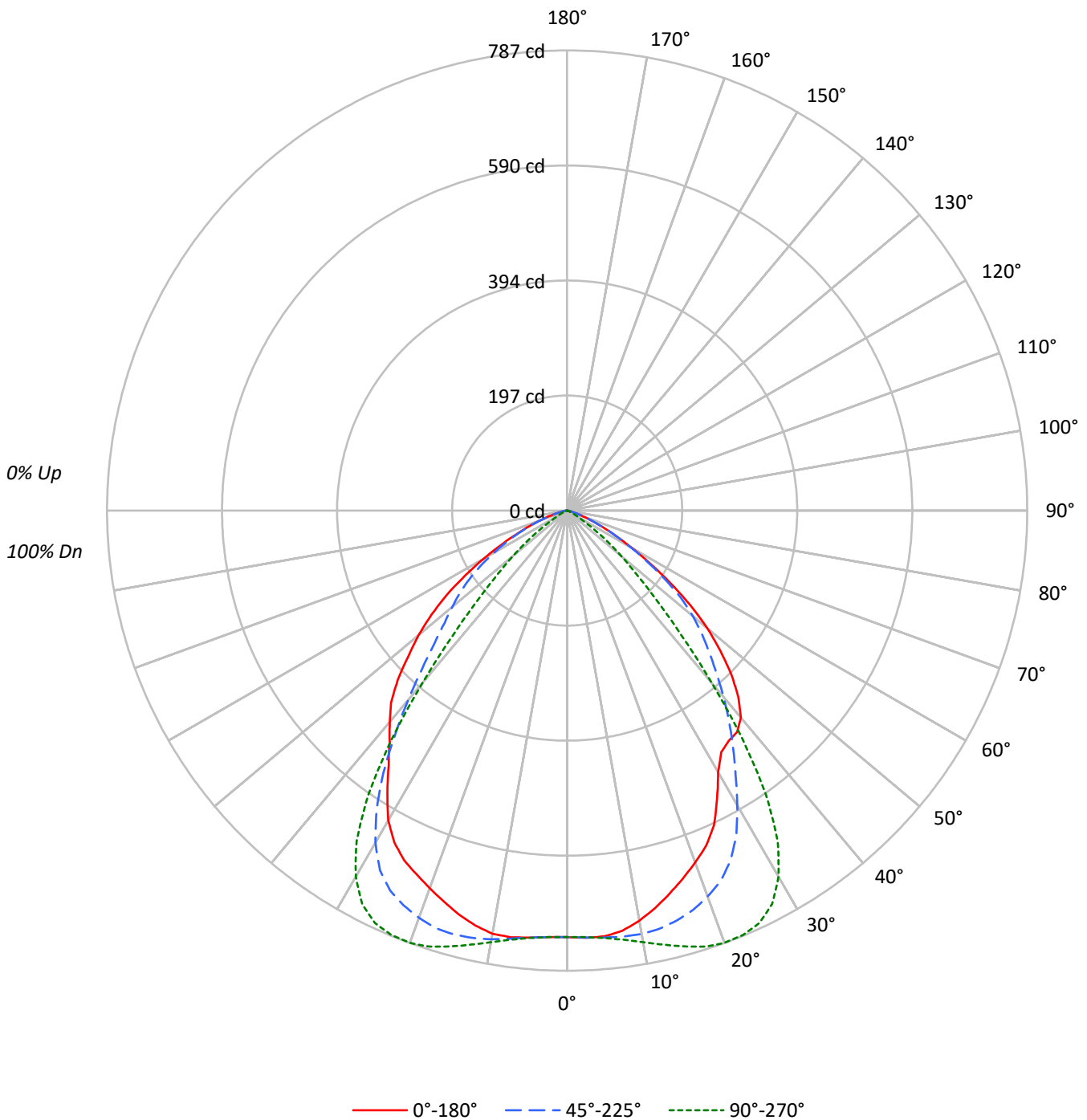
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	22492	22492	22492
5°	22624	22708	22686
10°	22294	23468	23008
15°	21641	24633	22829
20°	21012	25816	22551
25°	20207	26478	22446
30°	18391	25751	21781
35°	18114	22312	20038
40°	18609	15474	18996
45°	17322	9354	17862
50°	15025	5776	15917
55°	11532	3016	13510
60°	7857	1215	10194
65°	4889	620	7034
70°	2651	388	4292
75°	1382	179	2538
80°	622	213	1367
85°	425	142	1238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	5.0
10°-20°	207.8	14.8
20°-30°	317.0	22.5
30°-40°	330.8	23.5
40°-50°	248.5	17.7
50°-60°	152.9	10.9
60°-70°	62.2	4.4
70°-80°	14.7	1.0
80°-90°	2.0	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°	594.9	42.3
0°-40°	925.7	65.8
0°-60°	1327.1	94.4
0°-90°	1406.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1406.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	729	729	729	729	729	
5°	731	733	734	733	733	69
15°	678	726	772	750	715	191
25°	594	660	778	717	660	270
35°	481	495	593	548	532	304
45°	397	344	214	320	410	303
55°	214	204	56	204	251	193
65°	67	68	8	91	96	70
75°	12	12	2	20	21	14
85°	1	1	0	3	4	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°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	731.3	730.2	731.3	731.3	731.7	730.9	731.3	731.7	730.9	730.9	730.9
5°	730.9	730.2	730.9	730.5	731.3	731.3	732.1	732.1	732.9	732.9	734.0
7.5°	724.7	723.2	724.7	725.9	726.7	728.2	730.2	731.7	733.3	734.8	736.7
10°	712.0	712.0	713.1	715.4	717.8	720.5	724.0	727.8	731.7	735.2	738.7
12.5°	696.1	694.9	697.3	700.3	703.8	708.1	713.5	719.3	725.5	732.5	737.9
15°	677.9	676.7	679.4	682.5	686.8	693.0	699.6	707.3	716.2	725.5	734.4
17.5°	659.3	658.9	661.6	665.9	669.4	676.0	684.5	693.8	703.8	716.2	727.8
20°	640.3	640.0	642.7	646.2	650.8	657.0	665.5	676.3	688.3	702.3	715.8
22.5°	620.6	621.0	623.3	627.2	631.1	637.6	646.5	657.4	670.5	685.6	700.7
25°	593.9	592.0	595.0	598.9	605.5	610.9	619.4	631.1	644.6	660.5	678.3
27.5°	555.2	554.8	557.5	561.0	566.8	573.4	582.7	594.7	609.0	626.4	643.8
30°	516.5	517.2	518.4	521.9	525.7	532.3	541.6	551.7	565.2	581.9	600.5
32.5°	490.1	490.1	491.7	494.0	496.7	500.2	506.8	514.1	524.6	536.2	549.7
35°	481.2	479.7	481.2	481.6	482.0	482.8	483.9	486.3	489.7	494.8	499.8
37.5°	477.4	476.2	476.2	474.6	472.7	470.4	467.3	463.8	459.9	454.9	451.0
40°	462.3	461.5	460.7	459.2	454.9	450.3	445.2	437.1	428.2	415.8	403.4
42.5°	433.2	432.4	432.1	429.0	425.1	419.7	413.9	405.3	394.1	378.2	360.4
45°	397.2	395.7	394.5	391.8	389.1	384.4	379.0	371.3	360.0	343.8	322.5
47.5°	355.4	354.6	354.2	353.1	350.4	347.7	344.2	338.0	327.9	312.4	290.4
50°	313.2	311.7	312.4	312.0	310.9	308.9	306.6	302.4	294.6	280.7	260.6
52.5°	264.8	264.8	264.4	265.6	266.0	265.6	266.0	261.3	254.7	244.3	227.3
55°	214.5	214.5	215.6	217.2	218.7	219.1	218.7	216.8	212.2	203.6	188.5
57.5°	167.2	166.5	168.8	171.1	172.7	174.2	173.1	171.5	168.8	161.8	150.2
60°	127.4	127.4	128.9	130.5	132.0	133.6	133.2	132.8	130.5	125.8	116.5
62.5°	93.7	94.1	94.1	95.2	96.8	98.3	99.5	98.3	97.2	94.1	87.9
65°	67.0	66.6	67.0	68.1	69.3	70.8	71.6	71.2	70.1	67.8	63.1
67.5°	44.9	44.5	46.1	46.5	47.2	48.8	48.4	48.8	48.4	46.5	42.6
70°	29.4	28.6	29.4	29.0	30.2	30.6	31.4	31.7	31.4	30.2	29.0
72.5°	18.2	17.8	18.2	18.6	19.0	19.4	20.1	20.1	19.7	19.0	17.4
75°	11.6	10.4	10.8	10.1	10.8	10.8	11.6	12.0	11.6	11.6	10.8
77.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.4	7.7	7.0	6.6
80°	3.5	3.5	3.9	3.9	3.9	4.3	3.9	3.9	3.9	4.3	3.1
82.5°	2.7	2.3	2.3	2.3	2.7	2.3	2.3	2.3	2.3	2.3	2.3
85°	1.2	1.5	1.2	0.8	1.2	1.2	1.5	1.2	1.2	1.2	1.5
87.5°	0.4	0.4	0.0	0.0	0.0	0.4	0.0	0.4	0.4	0.8	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	731.3	730.5	730.5	730.2	730.9	730.2	730.5	730.2	730.2	730.9	730.2
5°	734.0	734.4	733.6	733.3	734.4	734.4	734.4	733.6	733.6	734.0	733.6
7.5°	737.9	738.7	739.1	739.5	740.2	740.6	740.6	740.2	739.8	741.0	739.5
10°	742.2	743.3	745.6	746.8	748.7	748.7	749.5	749.5	748.7	749.5	749.1
12.5°	740.6	747.6	751.5	754.2	756.9	759.2	760.0	760.4	760.0	761.5	760.0
15°	743.3	749.1	755.3	760.0	765.0	767.7	768.5	771.6	772.4	772.7	770.4
17.5°	739.1	749.5	756.1	763.1	770.4	775.5	780.1	782.0	782.4	783.2	780.1
20°	729.4	741.0	751.1	761.1	769.7	777.4	781.3	786.7	785.1	788.2	784.0
22.5°	716.2	729.4	742.2	755.3	764.2	773.5	781.7	785.5	787.5	787.5	782.8
25°	695.3	710.8	724.7	738.3	751.8	763.1	772.4	778.2	779.3	778.9	773.5
27.5°	662.8	679.4	695.7	711.2	727.8	741.0	751.8	758.8	760.7	760.7	754.9
30°	617.9	635.7	651.6	670.1	687.2	701.9	717.0	723.2	726.7	726.7	720.1
32.5°	564.5	579.6	594.3	612.5	631.1	647.7	662.0	670.5	674.8	674.4	668.6
35°	506.4	513.7	525.0	538.5	555.2	570.7	584.6	592.7	600.1	599.7	594.3
37.5°	448.3	446.4	447.5	452.6	463.0	473.9	484.7	492.5	498.6	501.4	500.2
40°	391.4	381.3	371.7	368.2	368.9	372.8	378.6	384.4	391.4	394.9	396.4
42.5°	340.3	323.3	306.2	293.5	286.1	283.8	286.5	288.4	292.7	297.7	302.8
45°	299.3	276.4	254.0	234.2	221.8	214.5	212.9	214.5	216.8	221.8	228.4
47.5°	265.6	238.9	213.7	191.6	173.4	163.8	161.1	160.3	162.6	167.2	176.1
50°	235.8	209.1	181.2	155.6	136.7	125.8	122.0	120.4	123.1	126.6	134.7
52.5°	203.3	176.9	148.3	123.5	103.8	92.5	88.3	85.9	87.5	92.1	100.3
55°	168.0	143.6	117.7	92.1	73.2	62.7	57.7	56.1	57.7	62.7	70.8
57.5°	132.8	112.3	90.6	66.6	49.6	39.1	34.1	32.5	36.8	38.7	47.2
60°	103.8	87.1	68.5	48.8	34.1	25.9	20.9	19.7	21.7	25.2	32.1
62.5°	77.8	67.4	52.7	34.8	25.2	16.6	13.9	12.8	13.9	16.6	22.1
65°	56.5	48.4	36.8	25.5	17.0	12.4	9.3	8.5	9.7	11.6	16.3
67.5°	38.7	32.5	25.5	17.8	11.6	7.7	6.6	6.6	7.0	8.5	12.0
70°	25.2	21.3	16.3	11.6	7.7	5.8	5.0	4.3	5.0	6.2	8.1
72.5°	15.9	13.5	10.4	8.1	5.8	4.3	3.5	3.1	3.9	4.6	6.2
75°	9.7	7.4	5.4	4.3	3.1	3.1	3.1	1.5	1.9	3.1	3.9
77.5°	5.8	5.0	4.3	3.5	2.7	1.5	1.5	1.5	1.9	2.3	3.5
80°	3.1	2.7	1.9	1.9	1.5	1.2	1.5	1.2	0.8	1.9	2.3
82.5°	1.9	1.5	1.5	1.5	1.9	0.8	1.2	0.8	1.2	1.5	1.2
85°	1.2	1.2	1.2	0.8	1.9	0.8	0.8	0.4	0.4	0.8	0.8
87.5°	0.0	0.4	0.4	0.0	0.4	0.0	0.4	0.4	0.4	0.4	0.4
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°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	730.5	730.2	730.5	730.2	730.2	730.2	730.5	730.5	730.2	730.2	730.9
5°	733.6	733.6	733.6	733.3	732.9	732.9	733.6	733.6	732.5	733.6	733.6
7.5°	740.2	739.1	740.2	738.7	737.9	738.3	738.7	737.9	737.1	737.5	737.5
10°	748.7	747.6	747.6	746.4	745.3	744.5	743.7	741.8	739.8	739.5	737.9
12.5°	758.8	756.9	755.7	753.4	751.5	748.7	746.4	743.3	739.5	736.7	734.0
15°	768.9	765.8	763.1	759.2	754.9	750.3	745.3	740.2	734.0	728.6	724.0
17.5°	777.0	772.7	767.7	761.5	755.3	748.4	741.0	733.6	724.7	717.8	712.4
20°	779.7	773.5	766.9	758.8	750.7	741.0	731.7	722.0	712.0	704.6	698.4
22.5°	776.2	768.9	760.7	752.2	741.4	730.9	720.1	708.9	700.0	689.9	684.1
25°	766.6	757.7	748.7	738.7	728.2	716.6	705.0	693.4	682.5	677.1	669.8
27.5°	746.8	737.1	727.5	717.0	705.0	693.4	681.4	670.1	660.9	653.5	649.3
30°	712.0	700.7	689.5	678.3	667.8	655.8	644.6	635.3	626.0	620.2	616.0
32.5°	658.5	648.5	637.2	626.4	616.7	606.7	597.4	589.2	582.7	578.8	575.7
35°	586.5	576.5	567.9	560.2	552.1	547.8	542.0	537.4	534.6	533.1	532.7
37.5°	495.9	490.1	487.4	485.9	484.3	483.2	483.9	485.9	487.4	490.1	493.2
40°	399.1	404.2	405.7	411.2	416.2	422.8	430.1	438.6	445.6	454.5	460.7
42.5°	310.9	320.2	331.0	342.6	355.0	367.0	381.7	395.3	407.7	418.9	428.6
45°	238.9	253.2	269.5	286.1	302.8	320.2	338.0	354.6	369.3	381.3	391.4
47.5°	186.2	202.1	223.0	243.5	263.6	284.2	303.9	321.3	333.7	345.3	354.2
50°	147.5	165.7	188.5	212.2	234.2	255.9	276.8	293.1	305.5	314.8	321.3
52.5°	114.2	135.9	159.1	183.9	207.5	231.1	250.5	265.6	275.7	283.8	288.8
55°	85.2	106.5	131.2	156.8	180.8	203.6	221.8	235.0	243.9	248.5	251.3
57.5°	61.6	80.9	105.7	131.2	152.9	174.6	189.3	201.3	206.3	209.1	210.2
60°	44.9	62.7	84.8	106.9	127.4	144.8	157.6	165.7	169.6	171.1	170.7
62.5°	32.9	48.4	67.4	85.9	102.6	116.9	127.0	132.4	134.3	135.1	134.0
65°	25.2	37.2	53.4	67.8	80.5	91.0	98.3	101.8	103.0	102.6	101.8
67.5°	18.6	27.9	39.9	50.7	60.0	68.1	72.0	75.1	75.9	74.7	73.6
70°	13.2	20.5	29.0	36.4	43.4	48.0	52.3	52.7	52.7	52.3	51.5
72.5°	9.3	14.3	19.7	24.8	29.0	32.5	34.1	35.2	34.8	34.5	33.7
75°	6.2	8.9	14.3	15.5	19.4	20.5	22.1	22.1	22.5	21.3	21.3
77.5°	3.9	6.2	8.5	10.1	11.6	13.2	13.9	13.9	14.3	13.9	13.9
80°	2.3	3.9	4.6	7.0	7.0	8.1	8.5	8.9	8.1	9.3	8.1
82.5°	1.5	2.3	3.5	3.5	4.3	5.0	5.0	5.4	5.4	5.0	5.0
85°	1.2	1.5	1.9	2.3	2.3	2.7	2.3	2.3	2.7	3.1	2.7
87.5°	0.4	0.8	0.4	0.8	0.8	1.5	1.2	1.2	1.2	1.5	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):

	165°	170°	175°	180°
0°	729.4	729.4	729.4	729.4
2.5°	730.2	730.5	730.2	730.2
5°	733.6	733.3	733.6	732.9
7.5°	736.4	736.4	736.0	736.0
10°	736.4	734.8	734.8	734.8
12.5°	730.5	728.6	727.5	726.7
15°	720.5	717.0	715.4	715.1
17.5°	707.3	704.2	702.3	701.1
20°	692.2	689.1	686.8	687.2
22.5°	679.1	675.6	674.0	673.2
25°	665.9	661.6	660.5	659.7
27.5°	644.6	642.3	641.1	640.0
30°	612.1	610.9	609.0	611.7
32.5°	574.5	572.6	571.0	572.2
35°	533.1	531.9	533.1	532.3
37.5°	495.2	496.3	497.9	498.6
40°	465.4	469.6	471.2	471.9
42.5°	435.5	440.6	443.7	445.6
45°	398.8	403.8	407.3	409.6
47.5°	360.8	365.1	368.6	368.2
50°	326.4	328.7	330.2	331.8
52.5°	291.5	291.5	291.9	291.9
55°	252.0	251.3	250.9	251.3
57.5°	208.7	207.9	207.5	206.3
60°	169.2	166.9	165.3	165.3
62.5°	132.4	129.7	128.5	128.1
65°	99.5	99.1	96.8	96.4
67.5°	72.0	70.5	68.9	69.3
70°	50.7	48.4	48.4	47.6
72.5°	32.9	31.7	31.4	31.4
75°	20.5	20.5	19.7	21.3
77.5°	13.5	13.5	13.2	13.5
80°	8.1	8.1	8.1	7.7
82.5°	5.0	5.4	5.0	5.0
85°	2.7	3.1	2.3	3.5
87.5°	1.5	1.9	1.5	1.9
90°	0.0	0.0	0.0	0.0

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