

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: P246127

Luminaire Tested: **LSR8B15D010 EC8B15850 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246127
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 EC8B15850 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1404.0 lumens
Efficiency: N/A
Efficacy: 97.5 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

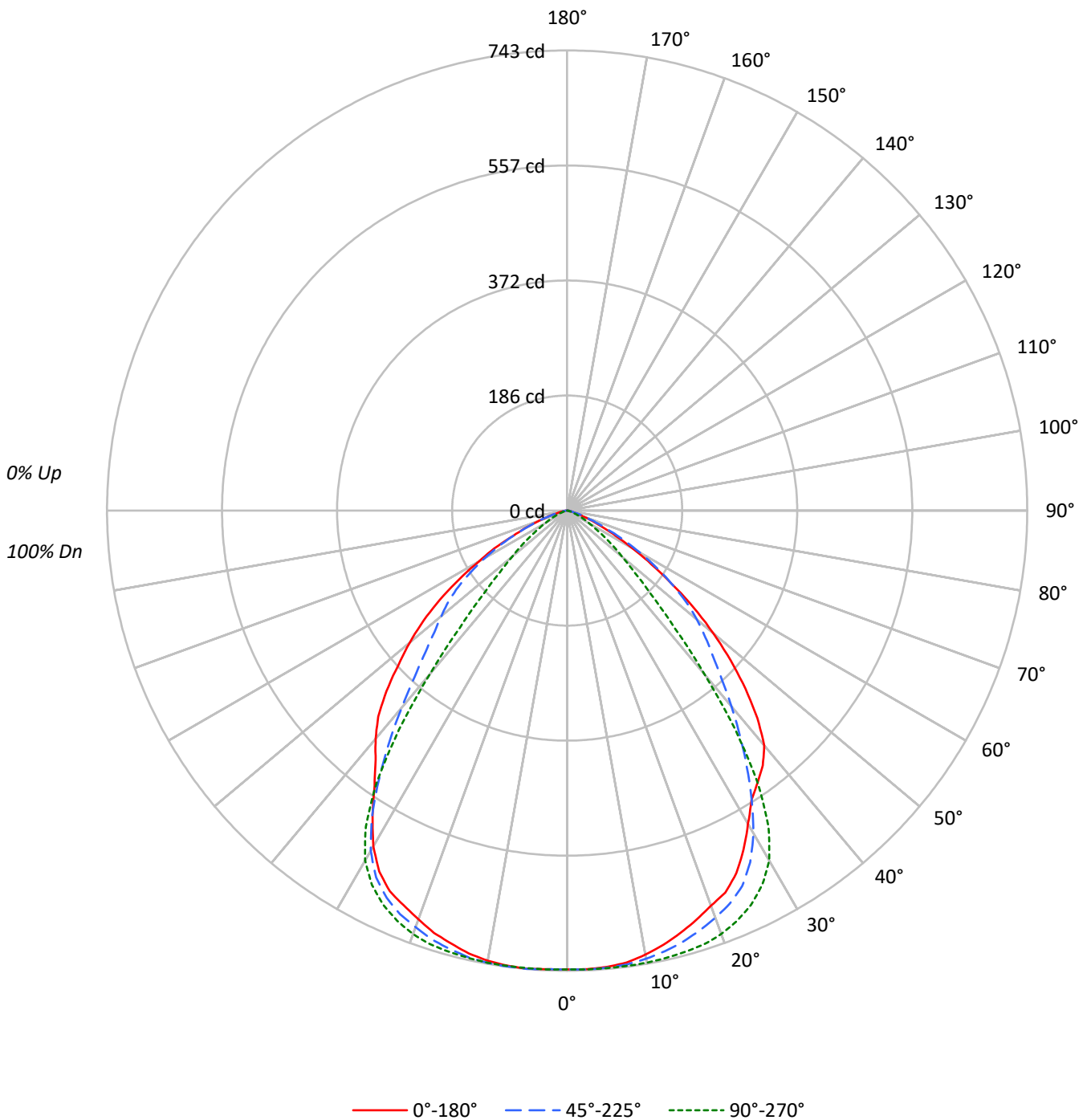
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	22844	22844	22844
5°	22894	22956	22980
10°	22798	23208	23108
15°	22545	23547	23103
20°	22275	23880	23043
25°	21983	23905	23068
30°	20798	23233	22286
35°	20177	20192	20403
40°	19926	13892	19366
45°	17758	8342	17997
50°	14766	5550	15908
55°	11075	3828	13489
60°	7506	2547	10176
65°	4524	1656	6990
70°	2506	893	4301
75°	1132	381	2228
80°	994	426	1545
85°	1132	566	1557



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	5.0
10°-20°	205.3	14.6
20°-30°	311.6	22.2
30°-40°	327.3	23.3
40°-50°	245.4	17.5
50°-60°	157.4	11.2
60°-70°	67.4	4.8
70°-80°	15.9	1.1
80°-90°	3.0	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°	587.6	41.9
0°-40°	914.9	65.2
0°-60°	1317.8	93.9
0°-90°	1404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1404.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	741	741	741	741	741	
5°	740	741	742	743	742	70
15°	706	721	738	733	724	199
25°	646	669	703	690	678	295
35°	536	506	536	530	542	336
45°	407	333	191	323	413	312
55°	206	206	71	215	251	187
65°	62	73	23	94	96	66
75°	10	11	3	19	19	14
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°	740.8	740.8	740.8	740.8	740.8	740.8	740.8	740.8	740.8	740.8	740.8
2.5°	741.2	742.0	741.6	741.6	741.2	741.6	741.6	742.4	742.4	741.6	741.2
5°	739.6	740.4	740.4	739.6	739.6	741.6	740.4	741.2	741.2	740.8	740.8
7.5°	736.0	736.0	737.6	736.4	736.4	737.6	737.2	738.0	738.8	739.2	739.2
10°	728.1	728.8	729.2	729.2	729.6	730.8	731.6	733.2	734.0	734.8	735.2
12.5°	718.1	719.3	719.7	719.3	720.5	722.1	724.1	726.1	727.3	728.8	730.0
15°	706.2	706.2	707.0	708.2	709.0	711.4	713.3	715.7	718.9	720.9	722.9
17.5°	693.1	693.9	695.1	695.1	696.6	700.6	701.8	705.4	709.0	711.0	714.9
20°	678.8	679.5	680.7	681.5	683.5	686.7	689.1	692.3	696.2	699.8	703.8
22.5°	667.6	666.0	666.8	667.6	669.6	672.4	675.2	679.1	683.1	686.7	690.7
25°	646.1	646.5	647.7	648.5	650.9	653.3	656.5	661.3	664.8	668.8	673.2
27.5°	617.1	617.5	619.5	619.5	621.5	625.5	627.5	631.4	636.2	640.2	645.4
30°	584.1	584.9	584.9	586.5	587.7	589.7	591.7	595.6	598.0	601.6	608.8
32.5°	553.9	554.7	554.3	553.9	552.7	552.3	551.9	552.7	553.5	554.7	557.5
35°	536.0	534.0	532.4	529.6	526.5	522.5	518.9	514.1	509.8	506.2	502.2
37.5°	518.9	518.5	516.1	512.1	505.8	498.6	490.3	479.9	469.6	458.5	447.7
40°	495.0	493.8	491.9	486.3	479.1	470.4	459.3	446.5	429.8	412.7	395.2
42.5°	454.5	454.9	452.5	448.1	441.4	433.0	421.5	407.6	389.7	369.4	346.7
45°	407.2	407.2	406.4	402.8	398.0	391.3	382.5	371.0	353.5	332.8	308.6
47.5°	357.9	358.3	357.1	356.3	354.3	349.9	343.6	334.8	322.5	302.6	278.3
50°	307.8	307.8	309.8	309.4	309.4	307.8	305.0	299.8	289.1	273.2	250.5
52.5°	257.7	258.5	259.7	261.2	263.2	266.4	263.2	260.8	254.1	241.8	222.3
55°	206.0	206.8	208.8	211.5	213.9	217.1	217.9	217.9	214.3	206.0	191.3
57.5°	161.8	160.6	162.2	164.6	167.8	171.0	173.4	176.1	175.7	170.2	158.3
60°	121.7	122.1	123.3	125.7	128.0	130.8	134.0	136.4	137.6	134.8	127.2
62.5°	88.7	88.7	90.3	92.6	93.8	97.8	99.8	101.0	102.2	101.8	97.0
65°	62.0	62.8	63.6	64.8	66.0	68.4	69.6	72.0	72.8	73.2	69.6
67.5°	43.7	42.5	43.3	44.1	45.3	46.9	49.3	49.3	50.5	50.5	48.1
70°	27.8	27.8	28.2	29.4	30.2	30.6	31.4	32.2	33.4	33.0	33.0
72.5°	18.7	18.3	18.7	19.1	19.5	20.7	20.7	21.1	21.9	22.3	20.7
75°	9.5	9.9	10.7	10.3	11.5	10.7	11.1	12.3	11.9	11.1	11.1
77.5°	7.9	7.9	7.9	7.6	8.3	8.3	7.9	8.7	8.3	8.3	7.9
80°	5.6	6.0	5.6	5.2	5.6	5.2	5.2	5.2	5.2	5.2	4.8
82.5°	4.4	3.6	4.0	3.6	4.0	4.0	3.6	3.2	3.2	3.6	3.2
85°	3.2	2.4	2.8	2.8	2.4	2.4	2.4	2.4	2.4	2.0	2.0
87.5°	2.0	1.2	1.2	1.2	1.6	1.6	1.6	1.2	1.6	1.6	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°	740.8	740.8	740.8	740.8	740.8	740.8	740.8	740.8	740.8	740.8	740.8
2.5°	742.0	741.6	742.4	742.0	742.0	741.6	742.0	741.6	742.4	740.8	741.2
5°	742.0	741.2	741.6	742.0	742.4	741.6	741.6	741.6	742.4	741.6	742.0
7.5°	740.4	740.0	741.2	742.0	741.6	741.2	742.0	741.6	742.4	742.0	742.8
10°	737.2	737.6	738.4	739.6	740.0	740.4	741.2	741.2	742.4	740.8	741.6
12.5°	732.4	734.0	736.0	736.8	738.4	738.4	739.2	739.6	740.4	740.0	741.2
15°	726.5	728.5	730.8	732.8	734.8	736.0	737.2	737.6	738.8	737.6	738.0
17.5°	719.3	721.7	725.3	727.7	730.8	732.0	733.6	734.4	735.6	734.8	735.2
20°	709.4	712.2	716.1	719.7	721.7	724.5	726.5	727.7	728.5	727.7	728.1
22.5°	695.4	699.4	704.6	707.4	711.4	713.7	714.1	716.9	718.9	716.9	717.7
25°	679.1	683.1	687.1	693.1	696.6	699.4	702.2	702.6	704.6	704.2	703.8
27.5°	652.1	657.3	664.0	668.8	673.6	678.0	681.1	681.9	683.9	683.1	683.5
30°	615.1	620.7	627.1	634.6	641.4	645.7	649.7	652.5	654.5	653.3	652.9
32.5°	562.6	568.2	575.0	582.5	590.5	596.8	601.6	605.2	607.6	606.8	604.8
35°	502.6	504.2	508.6	514.5	521.3	528.0	532.4	536.4	539.2	540.0	540.0
37.5°	441.0	435.8	432.6	432.6	436.6	439.4	443.4	445.7	450.1	451.7	452.9
40°	381.3	369.4	358.3	349.9	344.3	343.9	343.9	345.1	349.1	354.3	359.1
42.5°	328.0	309.0	291.9	276.4	265.2	258.9	256.1	256.5	259.7	264.4	272.4
45°	285.5	261.6	240.2	221.5	206.4	196.4	191.7	191.3	193.6	199.2	208.0
47.5°	252.5	227.0	202.8	181.3	165.0	154.3	148.7	147.1	148.7	153.9	164.2
50°	225.1	198.8	173.8	151.5	134.0	122.9	117.7	115.7	117.7	122.1	132.4
52.5°	199.6	172.6	149.1	127.6	108.9	99.4	93.8	92.6	93.8	99.0	107.4
55°	170.2	147.1	124.1	102.6	86.3	76.7	72.4	71.2	72.4	77.1	85.9
57.5°	141.2	121.3	101.0	81.5	67.6	59.2	55.3	53.7	56.5	59.6	70.0
60°	114.1	98.2	81.1	64.0	52.5	44.9	41.7	41.3	42.1	46.1	53.3
62.5°	89.5	76.3	62.8	48.9	39.4	36.2	32.2	31.8	32.6	35.0	40.6
65°	64.4	56.1	45.7	35.8	28.2	23.9	22.3	22.7	23.5	25.1	30.2
67.5°	44.9	39.0	31.8	25.1	19.5	17.5	15.9	15.5	15.9	18.7	21.5
70°	30.2	26.6	21.5	19.1	13.5	10.7	11.1	9.9	11.5	11.5	13.9
72.5°	19.9	17.5	14.3	11.1	9.5	7.6	7.6	7.2	7.9	8.3	10.3
75°	10.3	7.9	7.9	5.6	4.0	2.0	3.6	3.2	2.8	3.2	4.0
77.5°	7.2	6.0	5.6	4.4	4.0	3.2	3.2	3.2	3.2	3.6	4.0
80°	4.4	4.4	3.2	2.8	2.4	2.0	2.4	2.4	2.4	2.4	2.8
82.5°	2.8	2.4	2.4	2.0	2.0	1.6	1.6	1.6	1.6	1.6	2.4
85°	2.4	1.6	1.6	1.2	1.6	2.8	1.2	1.6	1.6	1.6	1.2
87.5°	0.8	1.2	1.2	1.2	0.8	0.4	0.8	1.2	1.2	2.0	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	740.8	740.8	740.8	740.8	740.8	740.8	740.8	740.8	740.8	740.8	740.8
2.5°	742.0	742.4	742.4	742.0	742.0	741.2	742.8	741.6	742.0	743.6	742.4
5°	742.8	743.2	743.2	742.8	742.8	742.8	743.2	743.2	742.8	742.4	743.2
7.5°	744.4	744.0	744.0	743.2	743.2	742.4	743.2	742.0	742.8	742.0	743.2
10°	742.4	742.8	742.4	742.0	742.0	741.6	741.6	740.4	740.8	739.6	740.4
12.5°	741.2	740.8	740.8	740.0	739.2	738.4	738.0	736.8	736.8	734.0	735.2
15°	738.0	738.4	737.2	735.6	734.8	732.8	732.0	730.4	728.8	726.9	727.3
17.5°	735.2	734.0	732.4	730.8	727.7	726.1	724.5	722.1	721.3	718.9	718.1
20°	726.9	726.1	724.1	721.3	719.3	715.7	714.1	711.8	709.8	707.4	706.2
22.5°	716.1	715.3	712.9	710.2	707.0	705.4	703.8	699.4	697.4	695.1	694.7
25°	702.6	701.4	699.0	695.8	694.3	689.9	688.3	685.1	684.3	681.9	681.5
27.5°	681.9	680.3	677.6	673.6	670.8	668.0	666.4	664.0	663.2	660.9	660.5
30°	650.9	648.9	643.4	641.8	637.0	634.2	634.2	631.0	631.4	629.8	629.8
32.5°	602.0	598.8	594.4	591.3	588.1	586.5	586.5	585.3	586.1	586.1	586.9
35°	537.2	532.8	530.4	528.4	528.4	530.0	534.8	536.0	538.4	540.4	542.0
37.5°	454.1	453.7	456.5	458.9	464.8	471.6	479.9	487.1	493.8	498.6	503.4
40°	364.2	374.2	382.1	393.3	402.4	415.5	430.6	443.0	454.5	462.8	471.6
42.5°	284.3	297.0	313.7	330.0	346.3	364.2	384.1	401.2	416.3	427.8	437.0
45°	221.5	239.0	259.3	279.9	301.0	323.3	343.9	361.4	377.4	389.3	398.4
47.5°	178.5	197.6	220.7	243.3	267.2	290.7	313.7	328.8	342.0	351.5	359.9
50°	147.5	167.8	192.1	217.9	241.8	265.2	285.1	299.8	310.5	318.9	324.1
52.5°	123.3	144.7	170.6	196.4	220.3	241.8	259.7	270.8	279.5	285.5	290.3
55°	101.8	122.5	146.7	171.0	194.4	214.7	229.4	237.8	244.5	248.1	250.9
57.5°	83.1	102.2	124.5	146.7	167.0	183.7	195.2	203.6	206.8	209.5	209.2
60°	65.2	83.1	103.4	122.5	140.0	153.5	161.8	166.6	169.0	170.2	169.4
62.5°	51.3	67.6	83.1	99.8	112.5	124.1	132.0	132.0	133.2	133.6	134.8
65°	38.2	50.5	64.0	76.3	86.7	94.2	98.6	99.8	101.4	101.0	100.2
67.5°	28.2	37.4	47.3	56.5	63.6	68.4	71.6	74.4	74.0	73.2	72.8
70°	19.5	25.5	34.2	39.8	44.9	49.7	50.5	50.9	51.3	51.7	50.9
72.5°	13.5	17.9	22.7	27.4	30.6	32.6	34.6	35.0	35.0	35.0	34.6
75°	6.8	9.1	13.5	15.5	18.3	19.1	20.7	20.7	21.9	20.3	19.9
77.5°	6.0	7.2	9.5	11.1	12.3	13.5	13.9	15.1	14.7	13.9	14.3
80°	3.6	4.4	6.0	6.8	8.3	8.7	9.1	9.5	9.1	9.5	9.5
82.5°	2.8	3.2	4.0	4.0	5.2	5.2	5.6	5.6	6.0	6.0	6.0
85°	1.6	2.8	2.4	4.8	3.2	3.2	4.0	4.8	4.0	4.0	4.8
87.5°	1.6	1.6	1.2	1.6	1.6	1.6	2.0	2.4	2.4	2.8	2.4
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):

	165°	170°	175°	180°
0°	740.8	740.8	740.8	740.8
2.5°	742.0	742.8	741.6	741.2
5°	743.2	743.2	742.4	742.4
7.5°	743.2	743.2	742.0	741.2
10°	740.0	740.0	738.8	738.0
12.5°	734.0	734.0	733.6	732.4
15°	726.5	726.5	724.9	723.7
17.5°	716.1	716.9	714.9	714.9
20°	705.0	704.6	703.0	702.2
22.5°	693.5	692.7	692.3	689.9
25°	681.1	680.3	679.1	678.0
27.5°	660.1	659.7	658.5	656.9
30°	627.9	627.5	625.9	625.9
32.5°	586.1	585.7	584.1	584.5
35°	542.8	544.4	543.6	542.0
37.5°	506.6	507.8	508.6	507.8
40°	476.4	479.9	480.3	481.1
42.5°	444.2	448.9	450.5	451.3
45°	405.6	410.0	413.5	412.7
47.5°	366.2	369.4	372.6	370.2
50°	328.4	330.4	331.6	331.6
52.5°	292.7	292.7	292.3	292.7
55°	251.7	251.7	250.1	250.9
57.5°	208.8	209.5	208.4	206.4
60°	169.0	167.0	166.2	165.0
62.5°	131.6	131.6	128.8	132.4
65°	98.6	97.4	96.2	95.8
67.5°	71.6	71.2	70.0	69.6
70°	50.5	48.9	48.5	47.7
72.5°	33.8	33.8	33.0	33.0
75°	20.7	18.7	18.3	18.7
77.5°	14.3	13.9	13.9	13.5
80°	9.5	9.1	9.9	8.7
82.5°	6.0	6.4	6.0	6.4
85°	4.0	4.8	4.4	4.4
87.5°	2.4	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0

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