

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: P246085

Luminaire Tested: **LSR8B15D010 EC8B15950 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246085
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 EC8B15950 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1412.0 lumens
Efficiency: N/A
Efficacy: 98.1 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

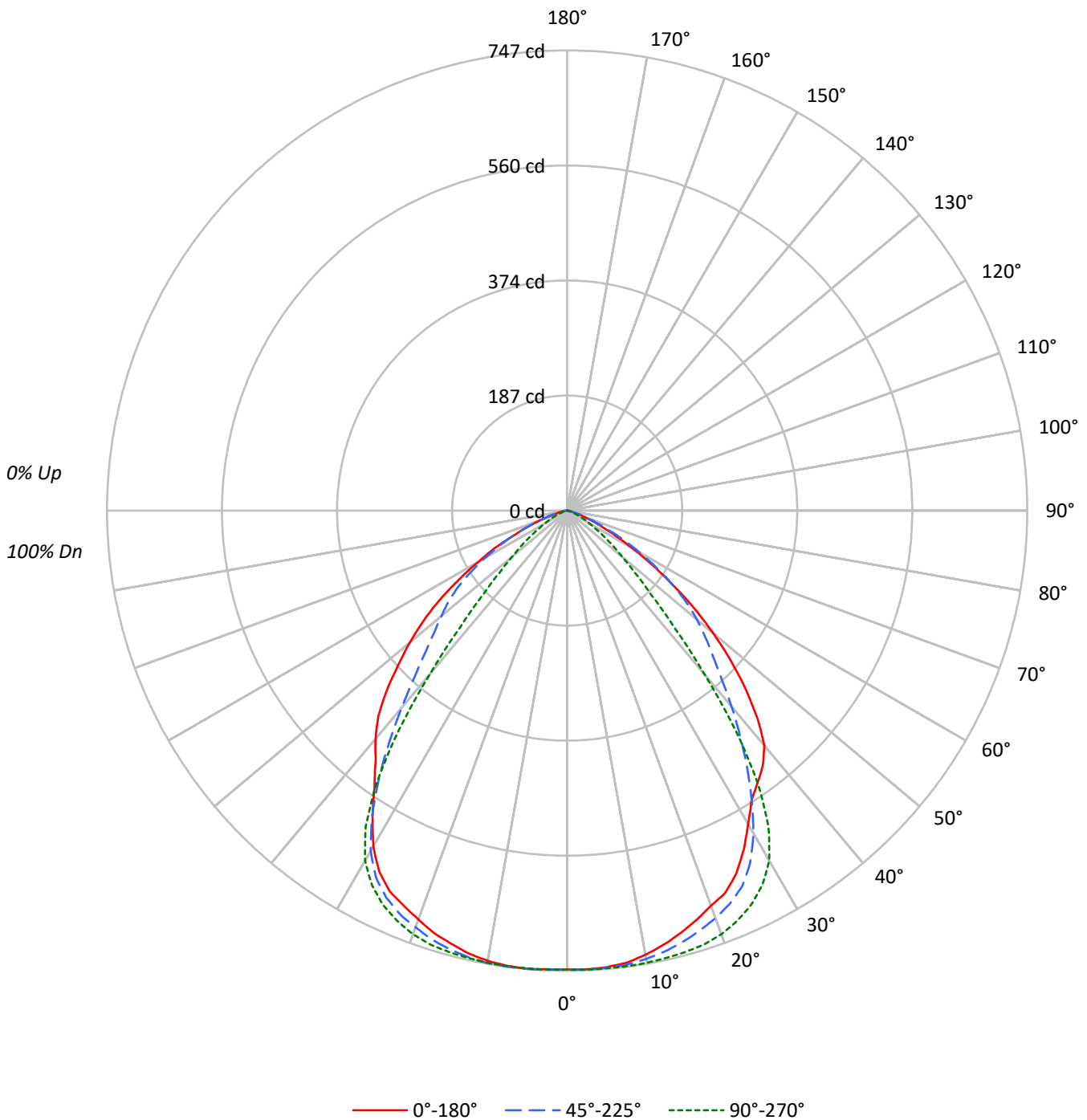
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	65	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°	22973	22973	22973
5°	23024	23086	23110
10°	22927	23340	23240
15°	22672	23681	23234
20°	22400	24014	23174
25°	22109	24041	23198
30°	20915	23365	22411
35°	20294	20309	20520
40°	20042	13972	19479
45°	17858	8386	18102
50°	14848	5584	15999
55°	11134	3849	13564
60°	7549	2566	10238
65°	4553	1664	7034
70°	2524	902	4328
75°	1144	381	2240
80°	994	426	1563
85°	1132	566	1557



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	5.0
10°-20°	206.5	14.6
20°-30°	313.4	22.2
30°-40°	329.2	23.3
40°-50°	246.8	17.5
50°-60°	158.3	11.2
60°-70°	67.8	4.8
70°-80°	16.0	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°	591.0	41.9
0°-40°	920.1	65.2
0°-60°	1325.3	93.9
0°-90°	1412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1412.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	745	745	745	745	745	
5°	744	745	746	747	747	71
15°	710	725	742	737	728	200
25°	650	673	707	694	682	297
35°	539	509	540	533	545	338
45°	410	335	192	325	415	314
55°	207	207	72	216	252	188
65°	62	74	23	95	96	67
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°	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0
2.5°	745.4	746.2	745.8	745.8	745.4	745.8	745.8	746.6	746.6	745.8	745.4
5°	743.8	744.6	744.6	743.8	743.8	745.8	744.6	745.4	745.4	745.0	745.0
7.5°	740.2	740.2	741.8	740.6	740.6	741.8	741.4	742.2	743.0	743.4	743.4
10°	732.2	733.0	733.4	733.4	733.8	735.0	735.8	737.4	738.2	739.0	739.4
12.5°	722.2	723.4	723.8	723.4	724.6	726.2	728.2	730.2	731.4	733.0	734.2
15°	710.2	710.2	711.0	712.2	713.0	715.4	717.4	719.8	723.0	725.0	727.0
17.5°	697.0	697.8	699.0	699.0	700.6	704.6	705.8	709.4	713.0	715.0	719.0
20°	682.6	683.4	684.6	685.4	687.4	690.6	693.0	696.2	700.2	703.8	707.8
22.5°	671.4	669.8	670.6	671.4	673.4	676.2	679.0	683.0	687.0	690.6	694.6
25°	649.8	650.2	651.4	652.2	654.6	657.0	660.2	665.0	668.6	672.6	677.0
27.5°	620.6	621.0	623.0	623.0	625.0	629.0	631.0	635.0	639.8	643.8	649.0
30°	587.4	588.2	588.2	589.8	591.0	593.0	595.0	599.0	601.4	605.0	612.2
32.5°	557.1	557.8	557.4	557.1	555.9	555.4	555.0	555.9	556.7	557.8	560.6
35°	539.1	537.1	535.5	532.7	529.5	525.5	521.9	517.1	512.7	509.1	505.1
37.5°	521.9	521.5	519.1	515.1	508.7	501.5	493.1	482.7	472.3	461.1	450.3
40°	497.9	496.7	494.7	489.1	481.9	473.1	461.9	449.1	432.3	415.1	397.5
42.5°	457.1	457.5	455.1	450.7	443.9	435.5	423.9	409.9	391.9	371.5	348.7
45°	409.5	409.5	408.7	405.1	400.3	393.5	384.7	373.1	355.5	334.7	310.3
47.5°	359.9	360.3	359.1	358.3	356.3	351.9	345.5	336.7	324.3	304.3	279.9
50°	309.5	309.5	311.5	311.1	311.1	309.5	306.7	301.5	290.7	274.7	251.9
52.5°	259.1	259.9	261.1	262.7	264.7	267.9	264.7	262.3	255.5	243.1	223.5
55°	207.1	207.9	209.9	212.7	215.1	218.3	219.1	219.1	215.5	207.1	192.3
57.5°	162.8	161.6	163.2	165.6	168.8	172.0	174.4	177.2	176.8	171.2	159.2
60°	122.4	122.8	124.0	126.4	128.8	131.6	134.8	137.2	138.4	135.6	128.0
62.5°	89.2	89.2	90.8	93.2	94.4	98.4	100.4	101.6	102.8	102.4	97.6
65°	62.4	63.2	64.0	65.2	66.4	68.8	70.0	72.4	73.2	73.6	70.0
67.5°	44.0	42.8	43.6	44.4	45.6	47.2	49.6	49.6	50.8	50.8	48.4
70°	28.0	28.0	28.4	29.6	30.4	30.8	31.6	32.4	33.6	33.2	33.2
72.5°	18.8	18.4	18.8	19.2	19.6	20.8	20.8	21.2	22.0	22.4	20.8
75°	9.6	10.0	10.8	10.4	11.6	10.8	11.2	12.4	12.0	11.2	11.2
77.5°	8.0	8.0	8.0	7.6	8.4	8.4	8.0	8.8	8.4	8.4	8.0
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°	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0
2.5°	746.2	745.8	746.6	746.2	746.2	745.8	746.2	745.8	746.6	745.0	745.4
5°	746.2	745.4	745.8	746.2	746.6	745.8	745.8	745.8	746.6	745.8	746.2
7.5°	744.6	744.2	745.4	746.2	745.8	745.4	746.2	745.8	746.6	746.2	747.0
10°	741.4	741.8	742.6	743.8	744.2	744.6	745.4	745.4	746.6	745.0	745.8
12.5°	736.6	738.2	740.2	741.0	742.6	742.6	743.4	743.8	744.6	744.2	745.4
15°	730.6	732.6	735.0	737.0	739.0	740.2	741.4	741.8	743.0	741.8	742.2
17.5°	723.4	725.8	729.4	731.8	735.0	736.2	737.8	738.6	739.8	739.0	739.4
20°	713.4	716.2	720.2	723.8	725.8	728.6	730.6	731.8	732.6	731.8	732.2
22.5°	699.4	703.4	708.6	711.4	715.4	717.8	718.2	721.0	723.0	721.0	721.8
25°	683.0	687.0	691.0	697.0	700.6	703.4	706.2	706.6	708.6	708.2	707.8
27.5°	655.8	661.0	667.8	672.6	677.4	681.8	685.0	685.8	687.8	687.0	687.4
30°	618.6	624.2	630.6	638.2	645.0	649.4	653.4	656.2	658.2	657.0	656.6
32.5°	565.9	571.4	578.2	585.8	593.8	600.2	605.0	608.6	611.0	610.2	608.2
35°	505.5	507.1	511.5	517.5	524.3	531.1	535.5	539.5	542.2	543.1	543.1
37.5°	443.5	438.3	435.1	435.1	439.1	441.9	445.9	448.3	452.7	454.3	455.5
40°	383.5	371.5	360.3	351.9	346.3	345.9	345.9	347.1	351.1	356.3	361.1
42.5°	329.9	310.7	293.5	277.9	266.7	260.3	257.5	257.9	261.1	265.9	273.9
45°	287.1	263.1	241.5	222.7	207.5	197.5	192.7	192.3	194.7	200.3	209.1
47.5°	253.9	228.3	203.9	182.3	166.0	155.2	149.6	148.0	149.6	154.8	165.2
50°	226.3	200.0	174.8	152.4	134.8	123.6	118.4	116.4	118.4	122.8	133.2
52.5°	200.7	173.6	150.0	128.4	109.6	100.0	94.4	93.2	94.4	99.6	108.0
55°	171.2	148.0	124.8	103.2	86.8	77.2	72.8	71.6	72.8	77.6	86.4
57.5°	142.0	122.0	101.6	82.0	68.0	59.6	55.6	54.0	56.8	60.0	70.4
60°	114.8	98.8	81.6	64.4	52.8	45.2	42.0	41.6	42.4	46.4	53.6
62.5°	90.0	76.8	63.2	49.2	39.6	36.4	32.4	32.0	32.8	35.2	40.8
65°	64.8	56.4	46.0	36.0	28.4	24.0	22.4	22.8	23.6	25.2	30.4
67.5°	45.2	39.2	32.0	25.2	19.6	17.6	16.0	15.6	16.0	18.8	21.6
70°	30.4	26.8	21.6	19.2	13.6	10.8	11.2	10.0	11.6	11.6	14.0
72.5°	20.0	17.6	14.4	11.2	9.6	7.6	7.6	7.2	8.0	8.4	10.4
75°	10.4	8.0	8.0	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°	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0
2.5°	746.2	746.6	746.6	746.2	746.2	745.4	747.0	745.8	746.2	747.8	746.6
5°	747.0	747.4	747.4	747.0	747.0	747.0	747.4	747.4	747.0	746.6	747.4
7.5°	748.6	748.2	748.2	747.4	747.4	746.6	747.4	746.2	747.0	746.2	747.4
10°	746.6	747.0	746.6	746.2	746.2	745.8	745.8	744.6	745.0	743.8	744.6
12.5°	745.4	745.0	745.0	744.2	743.4	742.6	742.2	741.0	741.0	738.2	739.4
15°	742.2	742.6	741.4	739.8	739.0	737.0	736.2	734.6	733.0	731.0	731.4
17.5°	739.4	738.2	736.6	735.0	731.8	730.2	728.6	726.2	725.4	723.0	722.2
20°	731.0	730.2	728.2	725.4	723.4	719.8	718.2	715.8	713.8	711.4	710.2
22.5°	720.2	719.4	717.0	714.2	711.0	709.4	707.8	703.4	701.4	699.0	698.6
25°	706.6	705.4	703.0	699.8	698.2	693.8	692.2	689.0	688.2	685.8	685.4
27.5°	685.8	684.2	681.4	677.4	674.6	671.8	670.2	667.8	667.0	664.6	664.2
30°	654.6	652.6	647.0	645.4	640.6	637.8	637.8	634.6	635.0	633.4	633.4
32.5°	605.4	602.2	597.8	594.6	591.4	589.8	589.8	588.6	589.4	589.4	590.2
35°	540.3	535.9	533.5	531.5	531.5	533.1	537.9	539.1	541.5	543.5	545.1
37.5°	456.7	456.3	459.1	461.5	467.5	474.3	482.7	489.9	496.7	501.5	506.3
40°	366.3	376.3	384.3	395.5	404.7	417.9	433.1	445.5	457.1	465.5	474.3
42.5°	285.9	298.7	315.5	331.9	348.3	366.3	386.3	403.5	418.7	430.3	439.5
45°	222.7	240.3	260.7	281.5	302.7	325.1	345.9	363.5	379.5	391.5	400.7
47.5°	179.5	198.7	221.9	244.7	268.7	292.3	315.5	330.7	343.9	353.5	361.9
50°	148.4	168.8	193.2	219.1	243.1	266.7	286.7	301.5	312.3	320.7	325.9
52.5°	124.0	145.6	171.6	197.5	221.5	243.1	261.1	272.3	281.1	287.1	291.9
55°	102.4	123.2	147.6	172.0	195.5	215.9	230.7	239.1	245.9	249.5	252.3
57.5°	83.6	102.8	125.2	147.6	168.0	184.8	196.3	204.7	207.9	210.7	210.3
60°	65.6	83.6	104.0	123.2	140.8	154.4	162.8	167.6	170.0	171.2	170.4
62.5°	51.6	68.0	83.6	100.4	113.2	124.8	132.8	132.8	134.0	134.4	135.6
65°	38.4	50.8	64.4	76.8	87.2	94.8	99.2	100.4	102.0	101.6	100.8
67.5°	28.4	37.6	47.6	56.8	64.0	68.8	72.0	74.8	74.4	73.6	73.2
70°	19.6	25.6	34.4	40.0	45.2	50.0	50.8	51.2	51.6	52.0	51.2
72.5°	13.6	18.0	22.8	27.6	30.8	32.8	34.8	35.2	35.2	35.2	34.8
75°	6.8	9.2	13.6	15.6	18.4	19.2	20.8	20.8	22.0	20.4	20.0
77.5°	6.0	7.2	9.6	11.2	12.4	13.6	14.0	15.2	14.8	14.0	14.4
80°	3.6	4.4	6.0	6.8	8.4	8.8	9.2	9.6	9.2	9.6	9.6
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°	745.0	745.0	745.0	745.0
2.5°	746.2	747.0	745.8	745.4
5°	747.4	747.4	746.6	746.6
7.5°	747.4	747.4	746.2	745.4
10°	744.2	744.2	743.0	742.2
12.5°	738.2	738.2	737.8	736.6
15°	730.6	730.6	729.0	727.8
17.5°	720.2	721.0	719.0	719.0
20°	709.0	708.6	707.0	706.2
22.5°	697.4	696.6	696.2	693.8
25°	685.0	684.2	683.0	681.8
27.5°	663.8	663.4	662.2	660.6
30°	631.4	631.0	629.4	629.4
32.5°	589.4	589.0	587.4	587.8
35°	545.9	547.5	546.7	545.1
37.5°	509.5	510.7	511.5	510.7
40°	479.1	482.7	483.1	483.9
42.5°	446.7	451.5	453.1	453.9
45°	407.9	412.3	415.9	415.1
47.5°	368.3	371.5	374.7	372.3
50°	330.3	332.3	333.5	333.5
52.5°	294.3	294.3	293.9	294.3
55°	253.1	253.1	251.5	252.3
57.5°	209.9	210.7	209.5	207.5
60°	170.0	168.0	167.2	166.0
62.5°	132.4	132.4	129.6	133.2
65°	99.2	98.0	96.8	96.4
67.5°	72.0	71.6	70.4	70.0
70°	50.8	49.2	48.8	48.0
72.5°	34.0	34.0	33.2	33.2
75°	20.8	18.8	18.4	18.8
77.5°	14.4	14.0	14.0	13.6
80°	9.6	9.2	10.0	8.8
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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