

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: P246109

Luminaire Tested: **LSR8B15D010 EC8B15830 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246109
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 EC8B15830 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1333.0 lumens
Efficiency: N/A
Efficacy: 92.6 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

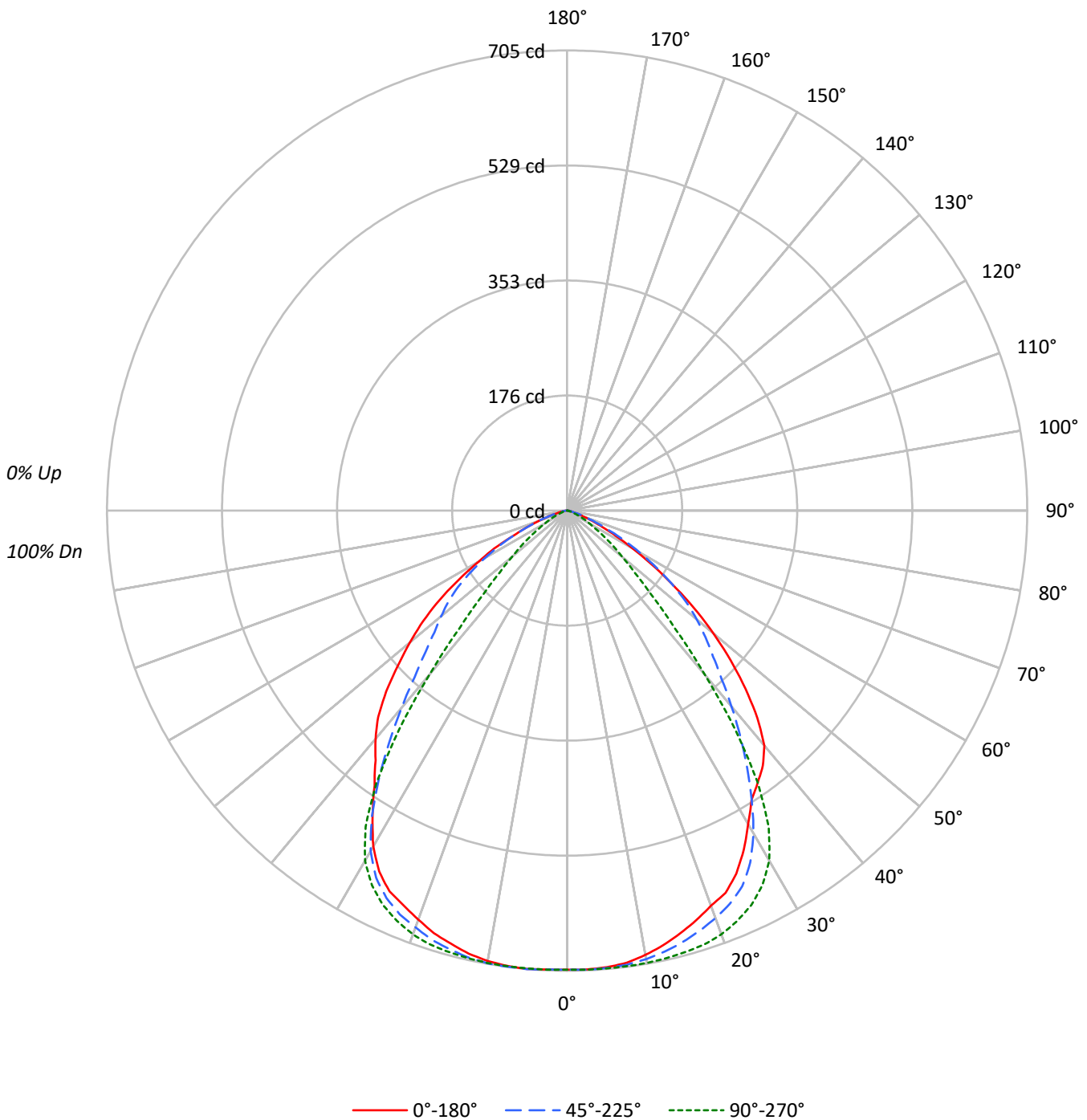
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	21687	21687	21687
5°	21736	21795	21816
10°	21643	22034	21940
15°	21405	22356	21935
20°	21146	22672	21878
25°	20874	22697	21901
30°	19747	22058	21158
35°	19157	19172	19372
40°	18919	13191	18388
45°	16859	7919	17090
50°	14018	5272	15107
55°	10516	3634	12806
60°	7123	2424	9664
65°	4298	1569	6640
70°	2380	847	4084
75°	1084	357	2109
80°	941	408	1474
85°	1061	531	1486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	5.0
10°-20°	194.9	14.6
20°-30°	295.9	22.2
30°-40°	310.8	23.3
40°-50°	233.0	17.5
50°-60°	149.5	11.2
60°-70°	63.9	4.8
70°-80°	15.1	1.1
80°-90°	2.8	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°	557.9	41.9
0°-40°	868.7	65.2
0°-60°	1251.1	93.9
0°-90°	1333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1333.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	703	703	703	703	703	
5°	702	703	704	705	705	67
15°	670	684	700	696	687	189
25°	614	635	667	655	644	280
35°	509	481	509	503	515	319
45°	387	316	182	307	392	296
55°	196	196	68	204	238	177
65°	59	70	22	90	91	63
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°	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3
2.5°	703.7	704.5	704.1	704.1	703.7	704.1	704.1	704.8	704.8	704.1	703.7
5°	702.2	702.9	702.9	702.2	702.2	704.1	702.9	703.7	703.7	703.3	703.3
7.5°	698.8	698.8	700.3	699.2	699.2	700.3	699.9	700.7	701.4	701.8	701.8
10°	691.2	692.0	692.4	692.4	692.7	693.9	694.6	696.1	696.9	697.7	698.0
12.5°	681.8	682.9	683.3	682.9	684.1	685.6	687.5	689.4	690.5	692.0	693.1
15°	670.5	670.5	671.2	672.4	673.1	675.4	677.3	679.5	682.6	684.4	686.3
17.5°	658.0	658.8	659.9	659.9	661.4	665.2	666.3	669.7	673.1	675.0	678.8
20°	644.4	645.2	646.3	647.1	649.0	652.0	654.2	657.3	661.0	664.4	668.2
22.5°	633.9	632.3	633.1	633.9	635.7	638.4	641.0	644.8	648.6	652.0	655.8
25°	613.5	613.8	615.0	615.7	618.0	620.3	623.3	627.8	631.2	635.0	639.1
27.5°	585.9	586.3	588.2	588.2	590.1	593.8	595.7	599.5	604.0	607.8	612.7
30°	554.6	555.3	555.3	556.8	558.0	559.9	561.7	565.5	567.8	571.2	578.0
32.5°	525.9	526.6	526.3	525.9	524.8	524.4	524.0	524.8	525.5	526.6	529.3
35°	508.9	507.0	505.5	502.9	499.8	496.1	492.7	488.1	484.0	480.6	476.8
37.5°	492.7	492.3	490.0	486.2	480.2	473.4	465.5	455.7	445.8	435.3	425.1
40°	470.0	468.9	467.0	461.7	454.9	446.6	436.0	424.0	408.1	391.9	375.3
42.5°	431.5	431.9	429.6	425.5	419.0	411.1	400.2	387.0	370.0	350.7	329.2
45°	386.6	386.6	385.8	382.4	377.9	371.5	363.2	352.2	335.6	316.0	293.0
47.5°	339.8	340.1	339.0	338.3	336.4	332.2	326.2	317.9	306.2	287.3	264.3
50°	292.2	292.2	294.1	293.7	293.7	292.2	289.6	284.6	274.5	259.4	237.8
52.5°	244.6	245.4	246.5	248.0	249.9	252.9	249.9	247.7	241.2	229.5	211.0
55°	195.6	196.3	198.2	200.8	203.1	206.1	206.9	206.9	203.5	195.6	181.6
57.5°	153.7	152.5	154.0	156.3	159.3	162.3	164.6	167.2	166.9	161.6	150.3
60°	115.5	115.9	117.0	119.3	121.6	124.2	127.2	129.5	130.6	128.0	120.8
62.5°	84.2	84.2	85.7	88.0	89.1	92.9	94.8	95.9	97.0	96.6	92.1
65°	58.9	59.6	60.4	61.5	62.7	64.9	66.1	68.3	69.1	69.5	66.1
67.5°	41.5	40.4	41.2	41.9	43.0	44.6	46.8	46.8	47.9	47.9	45.7
70°	26.4	26.4	26.8	27.9	28.7	29.1	29.8	30.6	31.7	31.3	31.3
72.5°	17.7	17.4	17.7	18.1	18.5	19.6	19.6	20.0	20.8	21.1	19.6
75°	9.1	9.4	10.2	9.8	10.9	10.2	10.6	11.7	11.3	10.6	10.6
77.5°	7.5	7.5	7.5	7.2	7.9	7.9	7.5	8.3	7.9	7.9	7.5
80°	5.3	5.7	5.3	4.9	5.3	4.9	4.9	4.9	4.9	4.9	4.5
82.5°	4.2	3.4	3.8	3.4	3.8	3.8	3.4	3.0	3.0	3.4	3.0
85°	3.0	2.3	2.6	2.6	2.3	2.3	2.3	2.3	2.3	1.9	1.9
87.5°	1.9	1.1	1.1	1.1	1.5	1.5	1.5	1.1	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°	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3
2.5°	704.5	704.1	704.8	704.5	704.5	704.1	704.5	704.1	704.8	703.3	703.7
5°	704.5	703.7	704.1	704.5	704.8	704.1	704.1	704.1	704.8	704.1	704.5
7.5°	702.9	702.6	703.7	704.5	704.1	703.7	704.5	704.1	704.8	704.5	705.2
10°	699.9	700.3	701.1	702.2	702.6	702.9	703.7	703.7	704.8	703.3	704.1
12.5°	695.4	696.9	698.8	699.5	701.1	701.1	701.8	702.2	702.9	702.6	703.7
15°	689.7	691.6	693.9	695.8	697.7	698.8	699.9	700.3	701.4	700.3	700.7
17.5°	682.9	685.2	688.6	690.9	693.9	695.0	696.5	697.3	698.4	697.7	698.0
20°	673.5	676.1	679.9	683.3	685.2	687.8	689.7	690.9	691.6	690.9	691.2
22.5°	660.3	664.1	669.0	671.6	675.4	677.6	678.0	680.7	682.6	680.7	681.4
25°	644.8	648.6	652.4	658.0	661.4	664.1	666.7	667.1	669.0	668.6	668.2
27.5°	619.1	624.0	630.5	635.0	639.5	643.7	646.7	647.4	649.3	648.6	649.0
30°	584.0	589.3	595.4	602.5	608.9	613.1	616.9	619.5	621.4	620.3	619.9
32.5°	534.2	539.5	545.9	553.1	560.6	566.7	571.2	574.6	576.8	576.1	574.2
35°	477.2	478.7	482.9	488.5	494.9	501.3	505.5	509.3	511.9	512.7	512.7
37.5°	418.7	413.8	410.7	410.7	414.5	417.2	420.9	423.2	427.4	428.9	430.0
40°	362.0	350.7	340.1	332.2	326.9	326.6	326.6	327.7	331.5	336.4	340.9
42.5°	311.5	293.3	277.1	262.4	251.8	245.8	243.1	243.5	246.5	251.1	258.6
45°	271.1	248.4	228.0	210.3	195.9	186.5	182.0	181.6	183.8	189.1	197.4
47.5°	239.7	215.6	192.5	172.1	156.7	146.5	141.2	139.7	141.2	146.1	155.9
50°	213.7	188.8	165.0	143.8	127.2	116.7	111.7	109.9	111.7	115.9	125.7
52.5°	189.5	163.8	141.6	121.2	103.4	94.4	89.1	88.0	89.1	94.0	101.9
55°	161.6	139.7	117.8	97.4	81.9	72.9	68.7	67.6	68.7	73.2	81.5
57.5°	134.0	115.1	95.9	77.4	64.2	56.2	52.5	51.0	53.6	56.6	66.4
60°	108.3	93.3	77.0	60.8	49.8	42.7	39.6	39.3	40.0	43.8	50.6
62.5°	84.9	72.5	59.6	46.4	37.4	34.4	30.6	30.2	31.0	33.2	38.5
65°	61.2	53.2	43.4	34.0	26.8	22.6	21.1	21.5	22.3	23.8	28.7
67.5°	42.7	37.0	30.2	23.8	18.5	16.6	15.1	14.7	15.1	17.7	20.4
70°	28.7	25.3	20.4	18.1	12.8	10.2	10.6	9.4	10.9	10.9	13.2
72.5°	18.9	16.6	13.6	10.6	9.1	7.2	7.2	6.8	7.5	7.9	9.8
75°	9.8	7.5	7.5	5.3	3.8	1.9	3.4	3.0	2.6	3.0	3.8
77.5°	6.8	5.7	5.3	4.2	3.8	3.0	3.0	3.0	3.0	3.4	3.8
80°	4.2	4.2	3.0	2.6	2.3	1.9	2.3	2.3	2.3	2.3	2.6
82.5°	2.6	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	1.1	1.5	2.6	1.1	1.5	1.5	1.5	1.1
87.5°	0.8	1.1	1.1	1.1	0.8	0.4	0.8	1.1	1.1	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°	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3
2.5°	704.5	704.8	704.8	704.5	704.5	703.7	705.2	704.1	704.5	706.0	704.8
5°	705.2	705.6	705.6	705.2	705.2	705.2	705.6	705.6	705.2	704.8	705.6
7.5°	706.7	706.3	706.3	705.6	705.6	704.8	705.6	704.5	705.2	704.5	705.6
10°	704.8	705.2	704.8	704.5	704.5	704.1	704.1	702.9	703.3	702.2	702.9
12.5°	703.7	703.3	703.3	702.6	701.8	701.1	700.7	699.5	699.5	696.9	698.0
15°	700.7	701.1	699.9	698.4	697.7	695.8	695.0	693.5	692.0	690.1	690.5
17.5°	698.0	696.9	695.4	693.9	690.9	689.4	687.8	685.6	684.8	682.6	681.8
20°	690.1	689.4	687.5	684.8	682.9	679.5	678.0	675.8	673.9	671.6	670.5
22.5°	679.9	679.2	676.9	674.2	671.2	669.7	668.2	664.1	662.2	659.9	659.5
25°	667.1	665.9	663.7	660.7	659.1	655.0	653.5	650.5	649.7	647.4	647.1
27.5°	647.4	645.9	643.3	639.5	636.9	634.2	632.7	630.5	629.7	627.4	627.1
30°	618.0	616.1	610.8	609.3	604.8	602.1	602.1	599.1	599.5	598.0	598.0
32.5°	571.6	568.5	564.4	561.4	558.3	556.8	556.8	555.7	556.5	556.5	557.2
35°	510.0	505.9	503.6	501.7	501.7	503.2	507.8	508.9	511.2	513.0	514.6
37.5°	431.1	430.8	433.4	435.7	441.3	447.7	455.7	462.5	468.9	473.4	477.9
40°	345.8	355.2	362.8	373.4	382.0	394.5	408.9	420.6	431.5	439.4	447.7
42.5°	269.9	282.0	297.9	313.3	328.8	345.8	364.7	380.9	395.3	406.2	414.9
45°	210.3	226.9	246.1	265.8	285.8	306.9	326.6	343.2	358.3	369.6	378.3
47.5°	169.5	187.6	209.5	231.0	253.7	276.0	297.9	312.2	324.7	333.7	341.7
50°	140.1	159.3	182.3	206.9	229.5	251.8	270.7	284.6	294.8	302.8	307.7
52.5°	117.0	137.4	162.0	186.5	209.1	229.5	246.5	257.1	265.4	271.1	275.6
55°	96.6	116.3	139.3	162.3	184.6	203.9	217.8	225.8	232.2	235.6	238.2
57.5°	78.9	97.0	118.2	139.3	158.6	174.4	185.4	193.3	196.3	199.0	198.6
60°	61.9	78.9	98.2	116.3	132.9	145.7	153.7	158.2	160.4	161.6	160.8
62.5°	48.7	64.2	78.9	94.8	106.8	117.8	125.3	125.3	126.5	126.8	128.0
65°	36.2	47.9	60.8	72.5	82.3	89.5	93.6	94.8	96.3	95.9	95.1
67.5°	26.8	35.5	44.9	53.6	60.4	64.9	67.9	70.6	70.2	69.5	69.1
70°	18.5	24.2	32.5	37.8	42.7	47.2	47.9	48.3	48.7	49.1	48.3
72.5°	12.8	17.0	21.5	26.0	29.1	31.0	32.8	33.2	33.2	33.2	32.8
75°	6.4	8.7	12.8	14.7	17.4	18.1	19.6	19.6	20.8	19.3	18.9
77.5°	5.7	6.8	9.1	10.6	11.7	12.8	13.2	14.3	14.0	13.2	13.6
80°	3.4	4.2	5.7	6.4	7.9	8.3	8.7	9.1	8.7	9.1	9.1
82.5°	2.6	3.0	3.8	3.8	4.9	4.9	5.3	5.3	5.7	5.7	5.7
85°	1.5	2.6	2.3	4.5	3.0	3.0	3.8	4.5	3.8	3.8	4.5
87.5°	1.5	1.5	1.1	1.5	1.5	1.5	1.9	2.3	2.3	2.6	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°	703.3	703.3	703.3	703.3
2.5°	704.5	705.2	704.1	703.7
5°	705.6	705.6	704.8	704.8
7.5°	705.6	705.6	704.5	703.7
10°	702.6	702.6	701.4	700.7
12.5°	696.9	696.9	696.5	695.4
15°	689.7	689.7	688.2	687.1
17.5°	679.9	680.7	678.8	678.8
20°	669.3	669.0	667.5	666.7
22.5°	658.4	657.6	657.3	655.0
25°	646.7	645.9	644.8	643.7
27.5°	626.7	626.3	625.2	623.7
30°	596.1	595.7	594.2	594.2
32.5°	556.5	556.1	554.6	555.0
35°	515.3	516.8	516.1	514.6
37.5°	481.0	482.1	482.9	482.1
40°	452.3	455.7	456.0	456.8
42.5°	421.7	426.2	427.7	428.5
45°	385.1	389.2	392.6	391.9
47.5°	347.7	350.7	353.7	351.5
50°	311.8	313.7	314.9	314.9
52.5°	277.9	277.9	277.5	277.9
55°	239.0	239.0	237.5	238.2
57.5°	198.2	199.0	197.8	195.9
60°	160.4	158.6	157.8	156.7
62.5°	125.0	125.0	122.3	125.7
65°	93.6	92.5	91.4	91.0
67.5°	67.9	67.6	66.4	66.1
70°	47.9	46.4	46.1	45.3
72.5°	32.1	32.1	31.3	31.3
75°	19.6	17.7	17.4	17.7
77.5°	13.6	13.2	13.2	12.8
80°	9.1	8.7	9.4	8.3
82.5°	5.7	6.0	5.7	6.0
85°	3.8	4.5	4.2	4.2
87.5°	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0

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