

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: P246157

Luminaire Tested: **LSR8B15D010 EC8B15950 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246157  
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 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1278.0 lumens  
Efficiency: N/A  
Efficacy: 88.7 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

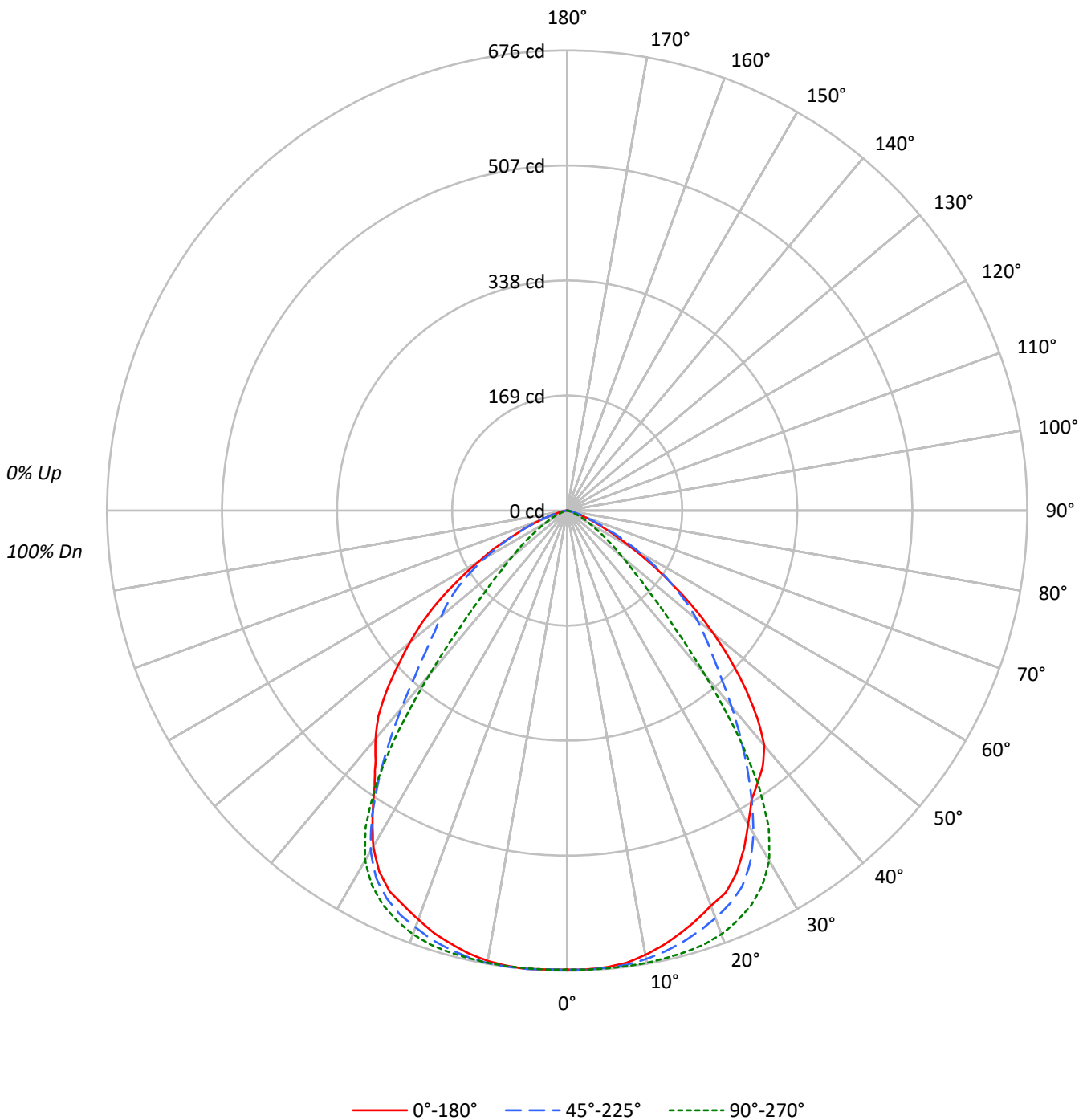
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	52	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°	20793	20793	20793
5°	20838	20894	20919
10°	20750	21126	21035
15°	20521	21434	21028
20°	20273	21737	20976
25°	20013	21762	20996
30°	18932	21147	20285
35°	18367	18382	18570
40°	18138	12648	17631
45°	16162	7592	16384
50°	13437	5052	14483
55°	10080	3484	12279
60°	6833	2319	9263
65°	4123	1503	6363
70°	2281	820	3913
75°	1037	346	2025
80°	906	391	1421
85°	1026	495	1415



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.4	5.0
10°-20°	186.9	14.6
20°-30°	283.7	22.2
30°-40°	297.9	23.3
40°-50°	223.4	17.5
50°-60°	143.3	11.2
60°-70°	61.3	4.8
70°-80°	14.5	1.1
80°-90°	2.7	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°	534.9	41.9
0°-40°	832.8	65.2
0°-60°	1199.5	93.9
0°-90°	1278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1278.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	674	674	674	674	674	
5°	673	674	675	676	676	64
15°	643	656	671	667	659	181
25°	588	609	640	628	617	269
35°	488	461	488	482	493	306
45°	371	303	174	294	376	284
55°	188	188	65	195	228	170
65°	56	67	21	86	87	60
75°	9	10	3	17	17	13
85°	3	2	1	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°	674.3	674.3	674.3	674.3	674.3	674.3	674.3	674.3	674.3	674.3	674.3
2.5°	674.7	675.4	675.0	675.0	674.7	675.0	675.0	675.8	675.8	675.0	674.7
5°	673.2	673.9	673.9	673.2	673.2	675.0	673.9	674.7	674.7	674.3	674.3
7.5°	670.0	670.0	671.4	670.3	670.3	671.4	671.0	671.8	672.5	672.9	672.9
10°	662.7	663.4	663.8	663.8	664.2	665.2	666.0	667.4	668.1	668.9	669.2
12.5°	653.7	654.8	655.1	654.8	655.8	657.3	659.1	660.9	662.0	663.4	664.5
15°	642.8	642.8	643.5	644.6	645.3	647.5	649.3	651.5	654.4	656.2	658.0
17.5°	630.9	631.6	632.7	632.7	634.1	637.7	638.8	642.1	645.3	647.2	650.8
20°	617.8	618.6	619.6	620.4	622.2	625.1	627.2	630.1	633.8	637.0	640.6
22.5°	607.7	606.3	607.0	607.7	609.5	612.0	614.6	618.2	621.8	625.1	628.7
25°	588.2	588.5	589.6	590.3	592.5	594.7	597.6	601.9	605.2	608.8	612.8
27.5°	561.7	562.1	563.9	563.9	565.7	569.3	571.1	574.8	579.1	582.7	587.4
30°	531.7	532.4	532.4	533.9	534.9	536.8	538.6	542.2	544.4	547.6	554.1
32.5°	504.2	504.9	504.5	504.2	503.1	502.7	502.4	503.1	503.8	504.9	507.4
35°	487.9	486.1	484.6	482.1	479.2	475.6	472.3	468.0	464.0	460.7	457.1
37.5°	472.3	472.0	469.8	466.2	460.4	453.9	446.3	436.9	427.5	417.3	407.6
40°	450.6	449.5	447.7	442.7	436.1	428.2	418.0	406.5	391.3	375.7	359.8
42.5°	413.7	414.1	411.9	407.9	401.8	394.2	383.7	371.0	354.7	336.2	315.6
45°	370.6	370.6	369.9	366.6	362.3	356.1	348.2	337.7	321.8	302.9	280.9
47.5°	325.7	326.1	325.0	324.3	322.5	318.5	312.7	304.8	293.5	275.4	253.4
50°	280.1	280.1	282.0	281.6	281.6	280.1	277.6	272.9	263.1	248.7	228.0
52.5°	234.5	235.3	236.4	237.8	239.6	242.5	239.6	237.4	231.3	220.1	202.3
55°	187.5	188.2	190.0	192.6	194.7	197.6	198.3	198.3	195.1	187.5	174.1
57.5°	147.3	146.2	147.7	149.8	152.7	155.6	157.8	160.3	160.0	154.9	144.1
60°	110.8	111.1	112.2	114.4	116.5	119.1	122.0	124.1	125.2	122.7	115.8
62.5°	80.7	80.7	82.2	84.3	85.4	89.0	90.8	91.9	93.0	92.7	88.3
65°	56.5	57.2	57.9	59.0	60.1	62.3	63.3	65.5	66.2	66.6	63.3
67.5°	39.8	38.7	39.5	40.2	41.3	42.7	44.9	44.9	46.0	46.0	43.8
70°	25.3	25.3	25.7	26.8	27.5	27.9	28.6	29.3	30.4	30.0	30.0
72.5°	17.0	16.6	17.0	17.4	17.7	18.8	18.8	19.2	19.9	20.3	18.8
75°	8.7	9.1	9.8	9.4	10.5	9.8	10.1	11.2	10.9	10.1	10.1
77.5°	7.2	7.2	7.2	6.9	7.6	7.6	7.2	8.0	7.6	7.6	7.2
80°	5.1	5.4	5.1	4.7	5.1	4.7	4.7	4.7	4.7	4.7	4.3
82.5°	4.0	3.3	3.6	3.3	3.6	3.6	3.3	2.9	2.9	3.3	2.9
85°	2.9	2.2	2.5	2.5	2.2	2.2	2.2	2.2	2.2	1.8	1.8
87.5°	1.8	1.1	1.1	1.1	1.4	1.4	1.4	1.1	1.4	1.4	0.7
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°	674.3	674.3	674.3	674.3	674.3	674.3	674.3	674.3	674.3	674.3	674.3
2.5°	675.4	675.0	675.8	675.4	675.4	675.0	675.4	675.0	675.8	674.3	674.7
5°	675.4	674.7	675.0	675.4	675.8	675.0	675.0	675.0	675.8	675.0	675.4
7.5°	673.9	673.6	674.7	675.4	675.0	674.7	675.4	675.0	675.8	675.4	676.1
10°	671.0	671.4	672.1	673.2	673.6	673.9	674.7	674.7	675.8	674.3	675.0
12.5°	666.7	668.1	670.0	670.7	672.1	672.1	672.9	673.2	673.9	673.6	674.7
15°	661.3	663.1	665.2	667.1	668.9	670.0	671.0	671.4	672.5	671.4	671.8
17.5°	654.8	656.9	660.2	662.4	665.2	666.3	667.8	668.5	669.6	668.9	669.2
20°	645.7	648.2	651.9	655.1	656.9	659.5	661.3	662.4	663.1	662.4	662.7
22.5°	633.0	636.7	641.4	643.9	647.5	649.7	650.0	652.6	654.4	652.6	653.3
25°	618.2	621.8	625.4	630.9	634.1	636.7	639.2	639.6	641.4	641.0	640.6
27.5°	593.6	598.3	604.4	608.8	613.1	617.1	620.0	620.7	622.5	621.8	622.2
30°	559.9	565.0	570.8	577.7	583.8	587.8	591.4	593.9	595.8	594.7	594.3
32.5°	512.2	517.2	523.4	530.2	537.5	543.3	547.6	550.9	553.0	552.3	550.5
35°	457.5	458.9	462.9	468.4	474.5	480.7	484.6	488.3	490.8	491.5	491.5
37.5°	401.4	396.7	393.8	393.8	397.4	399.9	403.6	405.7	409.7	411.2	412.3
40°	347.1	336.2	326.1	318.5	313.4	313.1	313.1	314.2	317.8	322.5	326.8
42.5°	298.6	281.2	265.7	251.5	241.4	235.6	233.1	233.5	236.4	240.7	247.9
45°	259.9	238.2	218.6	201.6	187.8	178.8	174.5	174.1	176.3	181.3	189.3
47.5°	229.8	206.7	184.6	165.0	150.2	140.4	135.4	133.9	135.4	140.1	149.5
50°	204.9	181.0	158.2	137.9	122.0	111.8	107.1	105.3	107.1	111.1	120.5
52.5°	181.7	157.1	135.7	116.2	99.2	90.5	85.4	84.3	85.4	90.1	97.7
55°	154.9	133.9	112.9	93.4	78.5	69.9	65.9	64.8	65.9	70.2	78.2
57.5°	128.5	110.4	91.9	74.2	61.5	53.9	50.3	48.9	51.4	54.3	63.7
60°	103.9	89.4	73.8	58.3	47.8	40.9	38.0	37.6	38.4	42.0	48.5
62.5°	81.4	69.5	57.2	44.5	35.8	32.9	29.3	29.0	29.7	31.8	36.9
65°	58.6	51.0	41.6	32.6	25.7	21.7	20.3	20.6	21.4	22.8	27.5
67.5°	40.9	35.5	29.0	22.8	17.7	15.9	14.5	14.1	14.5	17.0	19.5
70°	27.5	24.2	19.5	17.4	12.3	9.8	10.1	9.1	10.5	10.5	12.7
72.5°	18.1	15.9	13.0	10.1	8.7	6.9	6.9	6.5	7.2	7.6	9.4
75°	9.4	7.2	7.2	5.1	3.6	1.8	3.3	2.9	2.5	2.9	3.6
77.5°	6.5	5.4	5.1	4.0	3.6	2.9	2.9	2.9	2.9	3.3	3.6
80°	4.0	4.0	2.9	2.5	2.2	1.8	2.2	2.2	2.2	2.2	2.5
82.5°	2.5	2.2	2.2	1.8	1.8	1.4	1.4	1.4	1.4	1.4	2.2
85°	2.2	1.4	1.4	1.1	1.4	2.5	1.1	1.4	1.4	1.4	1.1
87.5°	0.7	1.1	1.1	1.1	0.7	0.4	0.7	1.1	1.1	1.8	1.4
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°	674.3	674.3	674.3	674.3	674.3	674.3	674.3	674.3	674.3	674.3	674.3
2.5°	675.4	675.8	675.8	675.4	675.4	674.7	676.1	675.0	675.4	676.8	675.8
5°	676.1	676.5	676.5	676.1	676.1	676.1	676.5	676.5	676.1	675.8	676.5
7.5°	677.6	677.2	677.2	676.5	676.5	675.8	676.5	675.4	676.1	675.4	676.5
10°	675.8	676.1	675.8	675.4	675.4	675.0	675.0	673.9	674.3	673.2	673.9
12.5°	674.7	674.3	674.3	673.6	672.9	672.1	671.8	670.7	670.7	668.1	669.2
15°	671.8	672.1	671.0	669.6	668.9	667.1	666.3	664.9	663.4	661.6	662.0
17.5°	669.2	668.1	666.7	665.2	662.4	660.9	659.5	657.3	656.6	654.4	653.7
20°	661.6	660.9	659.1	656.6	654.8	651.5	650.0	647.9	646.1	643.9	642.8
22.5°	651.9	651.1	649.0	646.4	643.5	642.1	640.6	636.7	634.8	632.7	632.3
25°	639.6	638.5	636.3	633.4	631.9	628.0	626.5	623.6	622.9	620.7	620.4
27.5°	620.7	619.3	616.8	613.1	610.6	608.1	606.6	604.4	603.7	601.5	601.2
30°	592.5	590.7	585.6	584.2	579.8	577.3	577.3	574.4	574.8	573.3	573.3
32.5°	548.0	545.1	541.1	538.2	535.3	533.9	533.9	532.8	533.5	533.5	534.2
35°	489.0	485.0	482.8	481.0	481.0	482.5	486.8	487.9	490.1	491.9	493.3
37.5°	413.3	413.0	415.5	417.7	423.1	429.3	436.9	443.4	449.5	453.9	458.2
40°	331.5	340.6	347.8	358.0	366.3	378.2	392.0	403.2	413.7	421.3	429.3
42.5°	258.8	270.4	285.6	300.4	315.3	331.5	349.6	365.2	379.0	389.4	397.8
45°	201.6	217.5	236.0	254.8	274.0	294.3	313.1	329.0	343.5	354.3	362.7
47.5°	162.5	179.9	200.9	221.5	243.2	264.6	285.6	299.3	311.3	320.0	327.6
50°	134.3	152.7	174.8	198.3	220.1	241.4	259.5	272.9	282.7	290.3	295.0
52.5°	112.2	131.7	155.3	178.8	200.5	220.1	236.4	246.5	254.4	259.9	264.2
55°	92.7	111.5	133.6	155.6	177.0	195.4	208.8	216.4	222.6	225.8	228.4
57.5°	75.6	93.0	113.3	133.6	152.0	167.2	177.7	185.3	188.2	190.7	190.4
60°	59.4	75.6	94.1	111.5	127.4	139.7	147.3	151.7	153.8	154.9	154.2
62.5°	46.7	61.5	75.6	90.8	102.4	112.9	120.2	120.2	121.2	121.6	122.7
65°	34.7	46.0	58.3	69.5	78.9	85.8	89.8	90.8	92.3	91.9	91.2
67.5°	25.7	34.0	43.1	51.4	57.9	62.3	65.1	67.7	67.3	66.6	66.2
70°	17.7	23.2	31.1	36.2	40.9	45.2	46.0	46.3	46.7	47.1	46.3
72.5°	12.3	16.3	20.6	25.0	27.9	29.7	31.5	31.8	31.8	31.8	31.5
75°	6.2	8.3	12.3	14.1	16.6	17.4	18.8	18.8	19.9	18.5	18.1
77.5°	5.4	6.5	8.7	10.1	11.2	12.3	12.7	13.8	13.4	12.7	13.0
80°	3.3	4.0	5.4	6.2	7.6	8.0	8.3	8.7	8.3	8.7	8.7
82.5°	2.5	2.9	3.6	3.6	4.7	4.7	5.1	5.1	5.4	5.4	5.4
85°	1.4	2.5	2.2	4.3	2.9	2.9	3.6	4.3	3.6	3.6	4.3
87.5°	1.4	1.4	1.1	1.4	1.4	1.4	1.8	2.2	2.2	2.5	2.2
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°	674.3	674.3	674.3	674.3
2.5°	675.4	676.1	675.0	674.7
5°	676.5	676.5	675.8	675.8
7.5°	676.5	676.5	675.4	674.7
10°	673.6	673.6	672.5	671.8
12.5°	668.1	668.1	667.8	666.7
15°	661.3	661.3	659.8	658.7
17.5°	651.9	652.6	650.8	650.8
20°	641.7	641.4	639.9	639.2
22.5°	631.2	630.5	630.1	628.0
25°	620.0	619.3	618.2	617.1
27.5°	600.8	600.5	599.4	597.9
30°	571.5	571.1	569.7	569.7
32.5°	533.5	533.1	531.7	532.1
35°	494.0	495.5	494.8	493.3
37.5°	461.1	462.2	462.9	462.2
40°	433.6	436.9	437.2	438.0
42.5°	404.3	408.6	410.1	410.8
45°	369.2	373.2	376.4	375.7
47.5°	333.3	336.2	339.1	337.0
50°	299.0	300.8	301.9	301.9
52.5°	266.4	266.4	266.0	266.4
55°	229.1	229.1	227.7	228.4
57.5°	190.0	190.7	189.7	187.8
60°	153.8	152.0	151.3	150.2
62.5°	119.8	119.8	117.3	120.5
65°	89.8	88.7	87.6	87.2
67.5°	65.1	64.8	63.7	63.3
70°	46.0	44.5	44.2	43.4
72.5°	30.8	30.8	30.0	30.0
75°	18.8	17.0	16.6	17.0
77.5°	13.0	12.7	12.7	12.3
80°	8.7	8.3	9.1	8.0
82.5°	5.4	5.8	5.4	5.8
85°	3.6	4.3	4.0	4.0
87.5°	2.2	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0

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