

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: P246217

Luminaire Tested: **LSR8B15D010 EC8B15935 8LBDW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246217  
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 EC8B15935 8LBDW0MW  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1320.0 lumens  
Efficiency: N/A  
Efficacy: 91.7 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

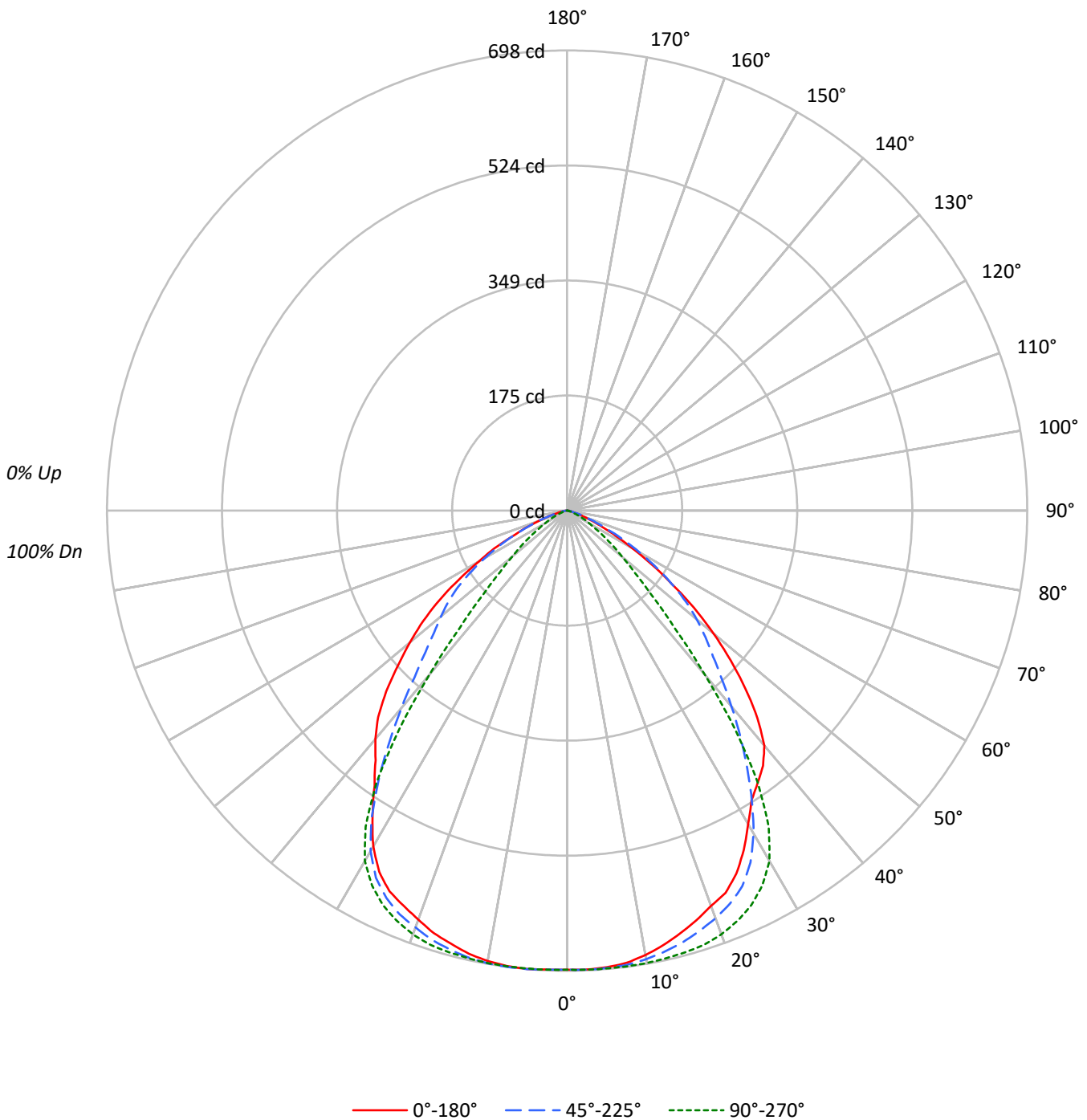
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	21477	21477	21477
5°	21522	21581	21606
10°	21433	21818	21724
15°	21194	22139	21721
20°	20939	22449	21665
25°	20670	22476	21687
30°	19555	21845	20951
35°	18969	18984	19180
40°	18734	13062	18207
45°	16694	7841	16920
50°	13883	5219	14958
55°	10408	3597	12682
60°	7055	2399	9565
65°	4254	1554	6574
70°	2362	838	4048
75°	1072	357	2097
80°	923	391	1456
85°	1061	531	1451



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.5	5.0
10°-20°	193.0	14.6
20°-30°	293.0	22.2
30°-40°	307.7	23.3
40°-50°	230.7	17.5
50°-60°	148.0	11.2
60°-70°	63.3	4.8
70°-80°	15.0	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°	552.5	41.9
0°-40°	860.2	65.2
0°-60°	1238.9	93.9
0°-90°	1320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1320.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	696	696	696	696	696	
5°	695	696	697	698	698	66
15°	664	678	694	689	680	187
25°	608	629	661	649	637	278
35°	504	476	504	498	510	316
45°	383	313	180	304	388	293
55°	194	194	67	202	236	176
65°	58	69	21	89	90	62
75°	9	10	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°	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5
2.5°	696.8	697.6	697.2	697.2	696.8	697.2	697.2	698.0	698.0	697.2	696.8
5°	695.3	696.1	696.1	695.3	695.3	697.2	696.1	696.8	696.8	696.5	696.5
7.5°	692.0	692.0	693.5	692.4	692.4	693.5	693.1	693.8	694.6	695.0	695.0
10°	684.5	685.2	685.6	685.6	686.0	687.1	687.9	689.4	690.1	690.9	691.2
12.5°	675.2	676.3	676.6	676.3	677.4	678.9	680.8	682.6	683.8	685.2	686.4
15°	663.9	663.9	664.7	665.8	666.6	668.8	670.7	672.9	675.9	677.8	679.6
17.5°	651.6	652.3	653.5	653.5	655.0	658.7	659.8	663.2	666.6	668.4	672.2
20°	638.1	638.9	640.0	640.8	642.6	645.6	647.9	650.9	654.6	658.0	661.7
22.5°	627.7	626.2	626.9	627.7	629.5	632.2	634.8	638.5	642.3	645.6	649.4
25°	607.5	607.9	609.0	609.7	612.0	614.2	617.2	621.7	625.1	628.8	632.9
27.5°	580.2	580.6	582.4	582.4	584.3	588.0	589.9	593.7	598.1	601.9	606.7
30°	549.2	549.9	549.9	551.4	552.5	554.4	556.3	560.0	562.3	565.6	572.3
32.5°	520.8	521.5	521.1	520.8	519.6	519.3	518.9	519.6	520.4	521.5	524.1
35°	503.9	502.1	500.6	498.0	495.0	491.2	487.9	483.4	479.3	475.9	472.2
37.5°	487.9	487.5	485.2	481.5	475.5	468.8	460.9	451.2	441.5	431.0	420.9
40°	465.4	464.3	462.4	457.2	450.5	442.2	431.8	419.8	404.1	388.0	371.6
42.5°	427.3	427.7	425.4	421.3	415.0	407.1	396.3	383.2	366.4	347.3	326.0
45°	382.8	382.8	382.1	378.7	374.2	367.9	359.6	348.8	332.3	312.9	290.1
47.5°	336.5	336.8	335.7	335.0	333.1	329.0	323.0	314.8	303.2	284.5	261.7
50°	289.4	289.4	291.2	290.8	290.8	289.4	286.7	281.9	271.8	256.8	235.5
52.5°	242.2	243.0	244.1	245.6	247.5	250.5	247.5	245.2	238.9	227.3	209.0
55°	193.6	194.4	196.3	198.9	201.1	204.1	204.9	204.9	201.5	193.6	179.8
57.5°	152.2	151.0	152.5	154.8	157.8	160.8	163.0	165.6	165.2	160.0	148.8
60°	114.4	114.8	115.9	118.1	120.4	123.0	126.0	128.2	129.4	126.7	119.6
62.5°	83.4	83.4	84.9	87.1	88.2	92.0	93.8	95.0	96.1	95.7	91.2
65°	58.3	59.1	59.8	60.9	62.1	64.3	65.4	67.7	68.4	68.8	65.4
67.5°	41.1	40.0	40.8	41.5	42.6	44.1	46.4	46.4	47.5	47.5	45.2
70°	26.2	26.2	26.5	27.7	28.4	28.8	29.5	30.3	31.4	31.0	31.0
72.5°	17.6	17.2	17.6	17.9	18.3	19.4	19.4	19.8	20.6	20.9	19.4
75°	9.0	9.3	10.1	9.7	10.8	10.1	10.5	11.6	11.2	10.5	10.5
77.5°	7.5	7.5	7.5	7.1	7.8	7.8	7.5	8.2	7.8	7.8	7.5
80°	5.2	5.6	5.2	4.9	5.2	4.9	4.9	4.9	4.9	4.9	4.5
82.5°	4.1	3.4	3.7	3.4	3.7	3.7	3.4	3.0	3.0	3.4	3.0
85°	3.0	2.2	2.6	2.6	2.2	2.2	2.2	2.2	2.2	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	0.7
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°	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5
2.5°	697.6	697.2	698.0	697.6	697.6	697.2	697.6	697.2	698.0	696.5	696.8
5°	697.6	696.8	697.2	697.6	698.0	697.2	697.2	697.2	698.0	697.2	697.6
7.5°	696.1	695.7	696.8	697.6	697.2	696.8	697.6	697.2	698.0	697.6	698.3
10°	693.1	693.5	694.2	695.3	695.7	696.1	696.8	696.8	698.0	696.5	697.2
12.5°	688.6	690.1	692.0	692.7	694.2	694.2	695.0	695.3	696.1	695.7	696.8
15°	683.0	684.9	687.1	689.0	690.9	692.0	693.1	693.5	694.6	693.5	693.8
17.5°	676.3	678.5	681.9	684.1	687.1	688.2	689.7	690.5	691.6	690.9	691.2
20°	666.9	669.5	673.3	676.6	678.5	681.1	683.0	684.1	684.9	684.1	684.5
22.5°	653.8	657.6	662.4	665.1	668.8	671.0	671.4	674.0	675.9	674.0	674.8
25°	638.5	642.3	646.0	651.6	655.0	657.6	660.2	660.6	662.4	662.1	661.7
27.5°	613.1	618.0	624.3	628.8	633.3	637.4	640.4	641.1	643.0	642.3	642.6
30°	578.3	583.6	589.5	596.6	603.0	607.1	610.8	613.5	615.3	614.2	613.8
32.5°	529.0	534.2	540.6	547.7	555.2	561.1	565.6	569.0	571.2	570.5	568.6
35°	472.5	474.0	478.1	483.7	490.1	496.5	500.6	504.3	506.9	507.7	507.7
37.5°	414.6	409.7	406.7	406.7	410.5	413.1	416.8	419.1	423.2	424.7	425.8
40°	358.5	347.3	336.8	329.0	323.7	323.4	323.4	324.5	328.2	333.1	337.6
42.5°	308.4	290.5	274.4	259.8	249.4	243.4	240.8	241.1	244.1	248.6	256.1
45°	268.4	246.0	225.8	208.2	194.0	184.7	180.2	179.8	182.1	187.3	195.5
47.5°	237.4	213.5	190.7	170.5	155.1	145.0	139.8	138.3	139.8	144.7	154.4
50°	211.6	186.9	163.4	142.4	126.0	115.5	110.7	108.8	110.7	114.8	124.5
52.5°	187.7	162.2	140.2	120.0	102.4	93.5	88.2	87.1	88.2	93.1	100.9
55°	160.0	138.3	116.6	96.4	81.1	72.2	68.0	66.9	68.0	72.5	80.8
57.5°	132.7	114.0	95.0	76.6	63.6	55.7	52.0	50.5	53.1	56.1	65.8
60°	107.3	92.3	76.3	60.2	49.3	42.2	39.3	38.9	39.6	43.4	50.1
62.5°	84.1	71.8	59.1	46.0	37.0	34.0	30.3	29.9	30.7	32.9	38.1
65°	60.6	52.7	43.0	33.6	26.5	22.4	20.9	21.3	22.1	23.6	28.4
67.5°	42.2	36.6	29.9	23.6	18.3	16.4	15.0	14.6	15.0	17.6	20.2
70°	28.4	25.0	20.2	17.9	12.7	10.1	10.5	9.3	10.8	10.8	13.1
72.5°	18.7	16.4	13.5	10.5	9.0	7.1	7.1	6.7	7.5	7.8	9.7
75°	9.7	7.5	7.5	5.2	3.7	1.9	3.4	3.0	2.6	3.0	3.7
77.5°	6.7	5.6	5.2	4.1	3.7	3.0	3.0	3.0	3.0	3.4	3.7
80°	4.1	4.1	3.0	2.6	2.2	1.9	2.2	2.2	2.2	2.2	2.6
82.5°	2.6	2.2	2.2	1.9	1.9	1.5	1.5	1.5	1.5	1.5	2.2
85°	2.2	1.5	1.5	1.1	1.5	2.6	1.1	1.5	1.5	1.5	1.1
87.5°	0.7	1.1	1.1	1.1	0.7	0.4	0.7	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°	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5
2.5°	697.6	698.0	698.0	697.6	697.6	696.8	698.3	697.2	697.6	699.1	698.0
5°	698.3	698.7	698.7	698.3	698.3	698.3	698.7	698.7	698.3	698.0	698.7
7.5°	699.8	699.4	699.4	698.7	698.7	698.0	698.7	697.6	698.3	697.6	698.7
10°	698.0	698.3	698.0	697.6	697.6	697.2	697.2	696.1	696.5	695.3	696.1
12.5°	696.8	696.5	696.5	695.7	695.0	694.2	693.8	692.7	692.7	690.1	691.2
15°	693.8	694.2	693.1	691.6	690.9	689.0	688.2	686.7	685.2	683.4	683.8
17.5°	691.2	690.1	688.6	687.1	684.1	682.6	681.1	678.9	678.1	675.9	675.2
20°	683.4	682.6	680.8	678.1	676.3	672.9	671.4	669.2	667.3	665.1	663.9
22.5°	673.3	672.5	670.3	667.7	664.7	663.2	661.7	657.6	655.7	653.5	653.1
25°	660.6	659.4	657.2	654.2	652.7	648.6	647.1	644.1	643.4	641.1	640.8
27.5°	641.1	639.6	637.0	633.3	630.7	628.0	626.6	624.3	623.6	621.3	620.9
30°	612.0	610.1	604.9	603.4	598.9	596.3	596.3	593.3	593.7	592.2	592.2
32.5°	566.0	563.0	558.9	555.9	552.9	551.4	551.4	550.3	551.0	551.0	551.8
35°	505.1	500.9	498.7	496.8	496.8	498.3	502.8	503.9	506.2	508.0	509.5
37.5°	426.9	426.6	429.2	431.4	437.0	443.4	451.2	458.0	464.3	468.8	473.3
40°	342.4	351.8	359.3	369.7	378.3	390.7	404.9	416.5	427.3	435.1	443.4
42.5°	267.3	279.3	295.0	310.3	325.6	342.4	361.1	377.2	391.4	402.2	410.8
45°	208.2	224.7	243.7	263.2	283.0	303.9	323.4	339.8	354.8	366.0	374.6
47.5°	167.9	185.8	207.5	228.8	251.2	273.3	295.0	309.2	321.5	330.5	338.3
50°	138.7	157.8	180.6	204.9	227.3	249.4	268.0	281.9	292.0	299.8	304.7
52.5°	115.9	136.1	160.4	184.7	207.1	227.3	244.1	254.6	262.8	268.4	272.9
55°	95.7	115.1	137.9	160.8	182.8	201.9	215.7	223.6	229.9	233.3	235.9
57.5°	78.1	96.1	117.0	137.9	157.0	172.7	183.6	191.4	194.4	197.0	196.6
60°	61.3	78.1	97.2	115.1	131.6	144.3	152.2	156.6	158.9	160.0	159.3
62.5°	48.2	63.6	78.1	93.8	105.8	116.6	124.1	124.1	125.2	125.6	126.7
65°	35.9	47.5	60.2	71.8	81.5	88.6	92.7	93.8	95.3	95.0	94.2
67.5°	26.5	35.1	44.5	53.1	59.8	64.3	67.3	69.9	69.5	68.8	68.4
70°	18.3	23.9	32.2	37.4	42.2	46.7	47.5	47.8	48.2	48.6	47.8
72.5°	12.7	16.8	21.3	25.8	28.8	30.7	32.5	32.9	32.9	32.9	32.5
75°	6.4	8.6	12.7	14.6	17.2	17.9	19.4	19.4	20.6	19.1	18.7
77.5°	5.6	6.7	9.0	10.5	11.6	12.7	13.1	14.2	13.8	13.1	13.5
80°	3.4	4.1	5.6	6.4	7.8	8.2	8.6	9.0	8.6	9.0	9.0
82.5°	2.6	3.0	3.7	3.7	4.9	4.9	5.2	5.2	5.6	5.6	5.6
85°	1.5	2.6	2.2	4.5	3.0	3.0	3.7	4.5	3.7	3.7	4.5
87.5°	1.5	1.5	1.1	1.5	1.5	1.5	1.9	2.2	2.2	2.6	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°	696.5	696.5	696.5	696.5
2.5°	697.6	698.3	697.2	696.8
5°	698.7	698.7	698.0	698.0
7.5°	698.7	698.7	697.6	696.8
10°	695.7	695.7	694.6	693.8
12.5°	690.1	690.1	689.7	688.6
15°	683.0	683.0	681.5	680.4
17.5°	673.3	674.0	672.2	672.2
20°	662.8	662.4	660.9	660.2
22.5°	652.0	651.2	650.9	648.6
25°	640.4	639.6	638.5	637.4
27.5°	620.6	620.2	619.1	617.6
30°	590.3	589.9	588.4	588.4
32.5°	551.0	550.7	549.2	549.5
35°	510.3	511.8	511.0	509.5
37.5°	476.3	477.4	478.1	477.4
40°	447.9	451.2	451.6	452.3
42.5°	417.6	422.1	423.6	424.3
45°	381.3	385.4	388.8	388.0
47.5°	344.3	347.3	350.3	348.0
50°	308.8	310.7	311.8	311.8
52.5°	275.1	275.1	274.8	275.1
55°	236.6	236.6	235.1	235.9
57.5°	196.3	197.0	195.9	194.0
60°	158.9	157.0	156.3	155.1
62.5°	123.7	123.7	121.1	124.5
65°	92.7	91.6	90.5	90.1
67.5°	67.3	66.9	65.8	65.4
70°	47.5	46.0	45.6	44.9
72.5°	31.8	31.8	31.0	31.0
75°	19.4	17.6	17.2	17.6
77.5°	13.5	13.1	13.1	12.7
80°	9.0	8.6	9.3	8.2
82.5°	5.6	6.0	5.6	6.0
85°	3.7	4.5	4.1	4.1
87.5°	2.2	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0

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