

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: P246055

Luminaire Tested: **LD8B15D010 ER8B15850 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246055  
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: LD8B15D010 ER8B15850 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1551.0 lumens  
Efficiency: N/A  
Efficacy: 107.7 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

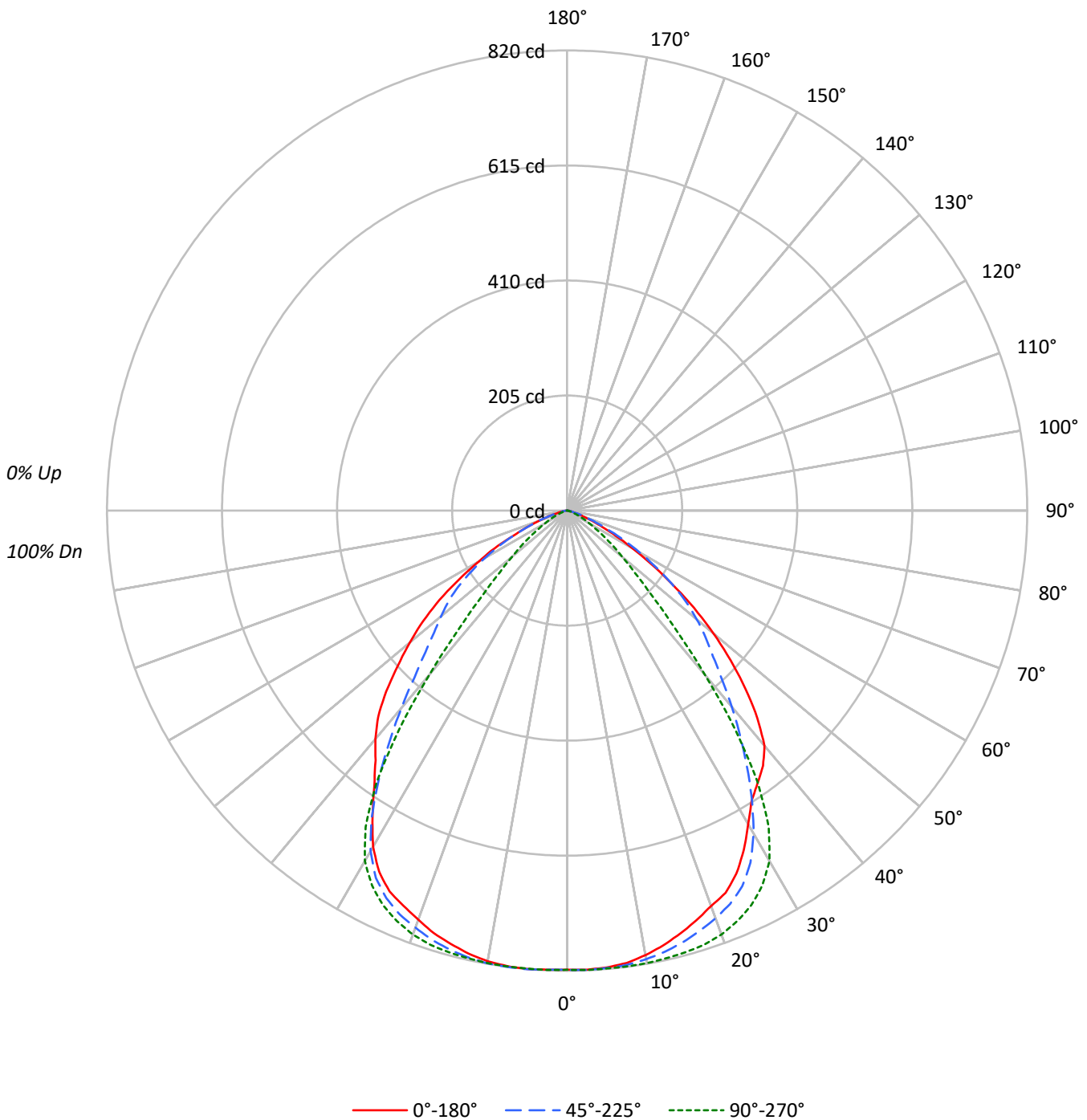
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	25233	25233	25233
5°	25290	25358	25385
10°	25184	25638	25529
15°	24904	26012	25523
20°	24605	26377	25455
25°	24286	26410	25481
30°	22977	25665	24618
35°	22289	22308	22538
40°	22015	15349	21395
45°	19615	9215	19881
50°	16311	6131	17572
55°	12231	4226	14903
60°	8289	2818	11243
65°	4998	1824	7727
70°	2768	992	4751
75°	1251	417	2454
80°	1083	462	1723
85°	1238	637	1698



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.1	5.0
10°-20°	226.8	14.6
20°-30°	344.3	22.2
30°-40°	361.6	23.3
40°-50°	271.1	17.5
50°-60°	173.9	11.2
60°-70°	74.4	4.8
70°-80°	17.6	1.1
80°-90°	3.3	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°	649.2	41.9
0°-40°	1010.7	65.2
0°-60°	1455.7	93.9
0°-90°	1551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1551.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	818	818	818	818	818	
5°	817	818	819	820	820	78
15°	780	796	815	810	800	220
25°	714	739	776	762	749	326
35°	592	559	593	586	599	372
45°	450	368	211	357	456	344
55°	228	228	79	237	277	206
65°	68	81	25	104	106	73
75°	10	12	4	21	21	15
85°	4	2	2	4	5	4
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°	818.3	818.3	818.3	818.3	818.3	818.3	818.3	818.3	818.3	818.3	818.3
2.5°	818.8	819.7	819.2	819.2	818.8	819.2	819.2	820.1	820.1	819.2	818.8
5°	817.0	817.9	817.9	817.0	817.0	819.2	817.9	818.8	818.8	818.3	818.3
7.5°	813.1	813.1	814.8	813.5	813.5	814.8	814.4	815.3	816.1	816.6	816.6
10°	804.3	805.2	805.6	805.6	806.0	807.4	808.2	810.0	810.9	811.7	812.2
12.5°	793.3	794.6	795.1	794.6	795.9	797.7	799.9	802.1	803.4	805.2	806.5
15°	780.1	780.1	781.0	782.3	783.2	785.8	788.0	790.7	794.2	796.4	798.6
17.5°	765.6	766.5	767.8	767.8	769.6	774.0	775.3	779.2	783.2	785.4	789.8
20°	749.8	750.7	752.0	752.9	755.1	758.6	761.2	764.7	769.1	773.1	777.5
22.5°	737.5	735.8	736.6	737.5	739.7	742.8	745.9	750.3	754.6	758.6	763.0
25°	713.8	714.2	715.6	716.4	719.1	721.7	725.2	730.5	734.4	738.8	743.7
27.5°	681.7	682.2	684.4	684.4	686.6	691.0	693.1	697.5	702.8	707.2	712.9
30°	645.3	646.1	646.1	647.9	649.2	651.4	653.6	658.0	660.6	664.6	672.5
32.5°	611.9	612.8	612.3	611.9	610.6	610.1	609.7	610.6	611.5	612.8	615.8
35°	592.1	589.9	588.2	585.1	581.6	577.2	573.2	568.0	563.1	559.2	554.8
37.5°	573.2	572.8	570.2	565.8	558.7	550.8	541.6	530.2	518.8	506.5	494.6
40°	546.9	545.6	543.4	537.2	529.3	519.6	507.3	493.3	474.8	455.9	436.6
42.5°	502.1	502.5	499.9	495.0	487.6	478.3	465.6	450.2	430.5	408.1	383.0
45°	449.8	449.8	448.9	445.0	439.7	432.2	422.6	409.8	390.5	367.7	340.9
47.5°	395.3	395.8	394.4	393.6	391.4	386.5	379.5	369.9	356.2	334.3	307.5
50°	340.0	340.0	342.2	341.7	341.7	340.0	336.9	331.2	319.3	301.8	276.7
52.5°	284.6	285.5	286.8	288.6	290.8	294.3	290.8	288.2	280.7	267.1	245.5
55°	227.5	228.4	230.6	233.7	236.3	239.8	240.7	240.7	236.8	227.5	211.3
57.5°	178.8	177.5	179.2	181.9	185.4	188.9	191.5	194.6	194.2	188.0	174.8
60°	134.4	134.9	136.2	138.8	141.4	144.5	148.0	150.7	152.0	148.9	140.6
62.5°	98.0	98.0	99.7	102.3	103.7	108.1	110.3	111.6	112.9	112.4	107.2
65°	68.5	69.4	70.3	71.6	72.9	75.5	76.9	79.5	80.4	80.8	76.9
67.5°	48.3	47.0	47.9	48.8	50.1	51.8	54.5	54.5	55.8	55.8	53.1
70°	30.7	30.7	31.2	32.5	33.4	33.8	34.7	35.6	36.9	36.5	36.5
72.5°	20.6	20.2	20.6	21.1	21.5	22.8	22.8	23.3	24.2	24.6	22.8
75°	10.5	11.0	11.9	11.4	12.7	11.9	12.3	13.6	13.2	12.3	12.3
77.5°	8.8	8.8	8.8	8.4	9.2	9.2	8.8	9.7	9.2	9.2	8.8
80°	6.1	6.6	6.1	5.7	6.1	5.7	5.7	5.7	5.7	5.7	5.3
82.5°	4.8	4.0	4.4	4.0	4.4	4.4	4.0	3.5	3.5	4.0	3.5
85°	3.5	2.6	3.1	3.1	2.6	2.6	2.6	2.6	2.6	2.2	2.2
87.5°	2.2	1.3	1.3	1.3	1.8	1.8	1.8	1.3	1.8	1.8	0.9
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°	818.3	818.3	818.3	818.3	818.3	818.3	818.3	818.3	818.3	818.3	818.3
2.5°	819.7	819.2	820.1	819.7	819.7	819.2	819.7	819.2	820.1	818.3	818.8
5°	819.7	818.8	819.2	819.7	820.1	819.2	819.2	819.2	820.1	819.2	819.7
7.5°	817.9	817.5	818.8	819.7	819.2	818.8	819.7	819.2	820.1	819.7	820.5
10°	814.4	814.8	815.7	817.0	817.5	817.9	818.8	818.8	820.1	818.3	819.2
12.5°	809.1	810.9	813.1	813.9	815.7	815.7	816.6	817.0	817.9	817.5	818.8
15°	802.5	804.7	807.4	809.6	811.7	813.1	814.4	814.8	816.1	814.8	815.3
17.5°	794.6	797.3	801.2	803.8	807.4	808.7	810.4	811.3	812.6	811.7	812.2
20°	783.6	786.7	791.1	795.1	797.3	800.3	802.5	803.8	804.7	803.8	804.3
22.5°	768.3	772.7	778.4	781.4	785.8	788.5	788.9	792.0	794.2	792.0	792.9
25°	750.3	754.6	759.0	765.6	769.6	772.7	775.7	776.2	778.4	777.9	777.5
27.5°	720.4	726.1	733.6	738.8	744.1	748.9	752.5	753.3	755.5	754.6	755.1
30°	679.5	685.7	692.7	701.1	708.5	713.4	717.7	720.8	723.0	721.7	721.3
32.5°	621.6	627.7	635.2	643.5	652.3	659.3	664.6	668.6	671.2	670.3	668.1
35°	555.2	557.0	561.8	568.4	575.9	583.3	588.2	592.6	595.6	596.5	596.5
37.5°	487.1	481.4	477.9	477.9	482.3	485.4	489.8	492.4	497.2	499.0	500.3
40°	421.2	408.1	395.8	386.5	380.4	380.0	380.0	381.3	385.7	391.4	396.7
42.5°	362.4	341.3	322.4	305.3	293.0	286.0	282.9	283.3	286.8	292.1	300.9
45°	315.4	289.0	265.3	244.7	228.0	217.0	211.7	211.3	213.9	220.1	229.7
47.5°	278.9	250.8	224.0	200.3	182.3	170.4	164.3	162.5	164.3	170.0	181.4
50°	248.6	219.6	192.0	167.4	148.0	135.7	130.0	127.8	130.0	134.9	146.3
52.5°	220.5	190.6	164.7	141.0	120.4	109.8	103.7	102.3	103.7	109.4	118.6
55°	188.0	162.5	137.0	113.3	95.3	84.8	79.9	78.6	79.9	85.2	94.9
57.5°	155.9	134.0	111.6	90.0	74.7	65.4	61.1	59.3	62.4	65.9	77.3
60°	126.1	108.5	89.6	70.7	58.0	49.6	46.1	45.7	46.6	51.0	58.9
62.5°	98.8	84.3	69.4	54.0	43.5	40.0	35.6	35.1	36.0	38.6	44.8
65°	71.2	61.9	50.5	39.5	31.2	26.4	24.6	25.0	25.9	27.7	33.4
67.5°	49.6	43.0	35.1	27.7	21.5	19.3	17.6	17.1	17.6	20.6	23.7
70°	33.4	29.4	23.7	21.1	14.9	11.9	12.3	11.0	12.7	12.7	15.4
72.5°	22.0	19.3	15.8	12.3	10.5	8.4	8.4	7.9	8.8	9.2	11.4
75°	11.4	8.8	8.8	6.1	4.4	2.2	4.0	3.5	3.1	3.5	4.4
77.5°	7.9	6.6	6.1	4.8	4.4	3.5	3.5	3.5	3.5	4.0	4.4
80°	4.8	4.8	3.5	3.1	2.6	2.2	2.6	2.6	2.6	2.6	3.1
82.5°	3.1	2.6	2.6	2.2	2.2	1.8	1.8	1.8	1.8	1.8	2.6
85°	2.6	1.8	1.8	1.3	1.8	3.1	1.3	1.8	1.8	1.8	1.3
87.5°	0.9	1.3	1.3	1.3	0.9	0.4	0.9	1.3	1.3	2.2	1.8
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	818.3	818.3	818.3	818.3	818.3	818.3	818.3	818.3	818.3	818.3	818.3
2.5°	819.7	820.1	820.1	819.7	819.7	818.8	820.5	819.2	819.7	821.4	820.1
5°	820.5	821.0	821.0	820.5	820.5	820.5	821.0	821.0	820.5	820.1	821.0
7.5°	822.3	821.9	821.9	821.0	821.0	820.1	821.0	819.7	820.5	819.7	821.0
10°	820.1	820.5	820.1	819.7	819.7	819.2	819.2	817.9	818.3	817.0	817.9
12.5°	818.8	818.3	818.3	817.5	816.6	815.7	815.3	813.9	813.9	810.9	812.2
15°	815.3	815.7	814.4	812.6	811.7	809.6	808.7	806.9	805.2	803.0	803.4
17.5°	812.2	810.9	809.1	807.4	803.8	802.1	800.3	797.7	796.8	794.2	793.3
20°	803.0	802.1	799.9	796.8	794.6	790.7	788.9	786.3	784.1	781.4	780.1
22.5°	791.1	790.2	787.6	784.5	781.0	779.2	777.5	772.7	770.5	767.8	767.4
25°	776.2	774.9	772.2	768.7	766.9	762.1	760.4	756.8	756.0	753.3	752.9
27.5°	753.3	751.6	748.5	744.1	741.0	738.0	736.2	733.6	732.7	730.0	729.6
30°	719.1	716.9	710.7	709.0	703.7	700.6	700.6	697.1	697.5	695.8	695.8
32.5°	665.0	661.5	656.7	653.2	649.7	647.9	647.9	646.6	647.5	647.5	648.3
35°	593.4	588.6	586.0	583.8	583.8	585.5	590.8	592.1	594.8	597.0	598.7
37.5°	501.6	501.2	504.3	506.9	513.5	521.0	530.2	538.1	545.6	550.8	556.1
40°	402.4	413.3	422.1	434.4	444.5	459.0	475.7	489.3	502.1	511.3	521.0
42.5°	314.1	328.1	346.6	364.6	382.6	402.4	424.3	443.2	459.9	472.6	482.7
45°	244.7	264.0	286.4	309.2	332.5	357.1	380.0	399.3	416.9	430.0	440.1
47.5°	197.2	218.3	243.8	268.8	295.2	321.1	346.6	363.3	377.8	388.3	397.5
50°	163.0	185.4	212.2	240.7	267.1	293.0	314.9	331.2	343.1	352.3	358.0
52.5°	136.2	159.9	188.4	217.0	243.3	267.1	286.8	299.1	308.8	315.4	320.7
55°	112.4	135.3	162.1	188.9	214.8	237.2	253.4	262.7	270.1	274.1	277.2
57.5°	91.8	112.9	137.5	162.1	184.5	202.9	215.7	224.9	228.4	231.5	231.0
60°	72.0	91.8	114.2	135.3	154.6	169.5	178.8	184.0	186.7	188.0	187.1
62.5°	56.7	74.7	91.8	110.3	124.3	137.0	145.8	145.8	147.2	147.6	148.9
65°	42.2	55.8	70.7	84.3	95.8	104.1	108.9	110.3	112.0	111.6	110.7
67.5°	31.2	41.3	52.3	62.4	70.3	75.5	79.1	82.1	81.7	80.8	80.4
70°	21.5	28.1	37.8	43.9	49.6	54.9	55.8	56.2	56.7	57.1	56.2
72.5°	14.9	19.8	25.0	30.3	33.8	36.0	38.2	38.6	38.6	38.6	38.2
75°	7.5	10.1	14.9	17.1	20.2	21.1	22.8	22.8	24.2	22.4	22.0
77.5°	6.6	7.9	10.5	12.3	13.6	14.9	15.4	16.7	16.3	15.4	15.8
80°	4.0	4.8	6.6	7.5	9.2	9.7	10.1	10.5	10.1	10.5	10.5
82.5°	3.1	3.5	4.4	4.4	5.7	5.7	6.1	6.1	6.6	6.6	6.6
85°	1.8	3.1	2.6	5.3	3.5	3.5	4.4	5.3	4.4	4.4	5.3
87.5°	1.8	1.8	1.3	1.8	1.8	1.8	2.2	2.6	2.6	3.1	2.6
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):**

	165°	170°	175°	180°
0°	818.3	818.3	818.3	818.3
2.5°	819.7	820.5	819.2	818.8
5°	821.0	821.0	820.1	820.1
7.5°	821.0	821.0	819.7	818.8
10°	817.5	817.5	816.1	815.3
12.5°	810.9	810.9	810.4	809.1
15°	802.5	802.5	800.8	799.5
17.5°	791.1	792.0	789.8	789.8
20°	778.8	778.4	776.6	775.7
22.5°	766.1	765.2	764.7	762.1
25°	752.5	751.6	750.3	748.9
27.5°	729.2	728.7	727.4	725.7
30°	693.6	693.1	691.4	691.4
32.5°	647.5	647.0	645.3	645.7
35°	599.6	601.3	600.5	598.7
37.5°	559.6	560.9	561.8	560.9
40°	526.2	530.2	530.6	531.5
42.5°	490.7	495.9	497.7	498.6
45°	448.0	452.9	456.8	455.9
47.5°	404.6	408.1	411.6	408.9
50°	362.8	365.0	366.3	366.3
52.5°	323.3	323.3	322.9	323.3
55°	278.0	278.0	276.3	277.2
57.5°	230.6	231.5	230.2	228.0
60°	186.7	184.5	183.6	182.3
62.5°	145.4	145.4	142.3	146.3
65°	108.9	107.6	106.3	105.9
67.5°	79.1	78.6	77.3	76.9
70°	55.8	54.0	53.6	52.7
72.5°	37.3	37.3	36.5	36.5
75°	22.8	20.6	20.2	20.6
77.5°	15.8	15.4	15.4	14.9
80°	10.5	10.1	11.0	9.7
82.5°	6.6	7.0	6.6	7.0
85°	4.4	5.3	4.8	4.8
87.5°	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0

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