

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: P244603

Luminaire Tested: **LSR8B15D010 EC8B15835 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244603
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 EC8B15835 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1566.0 lumens
Efficiency: N/A
Efficacy: 108.8 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

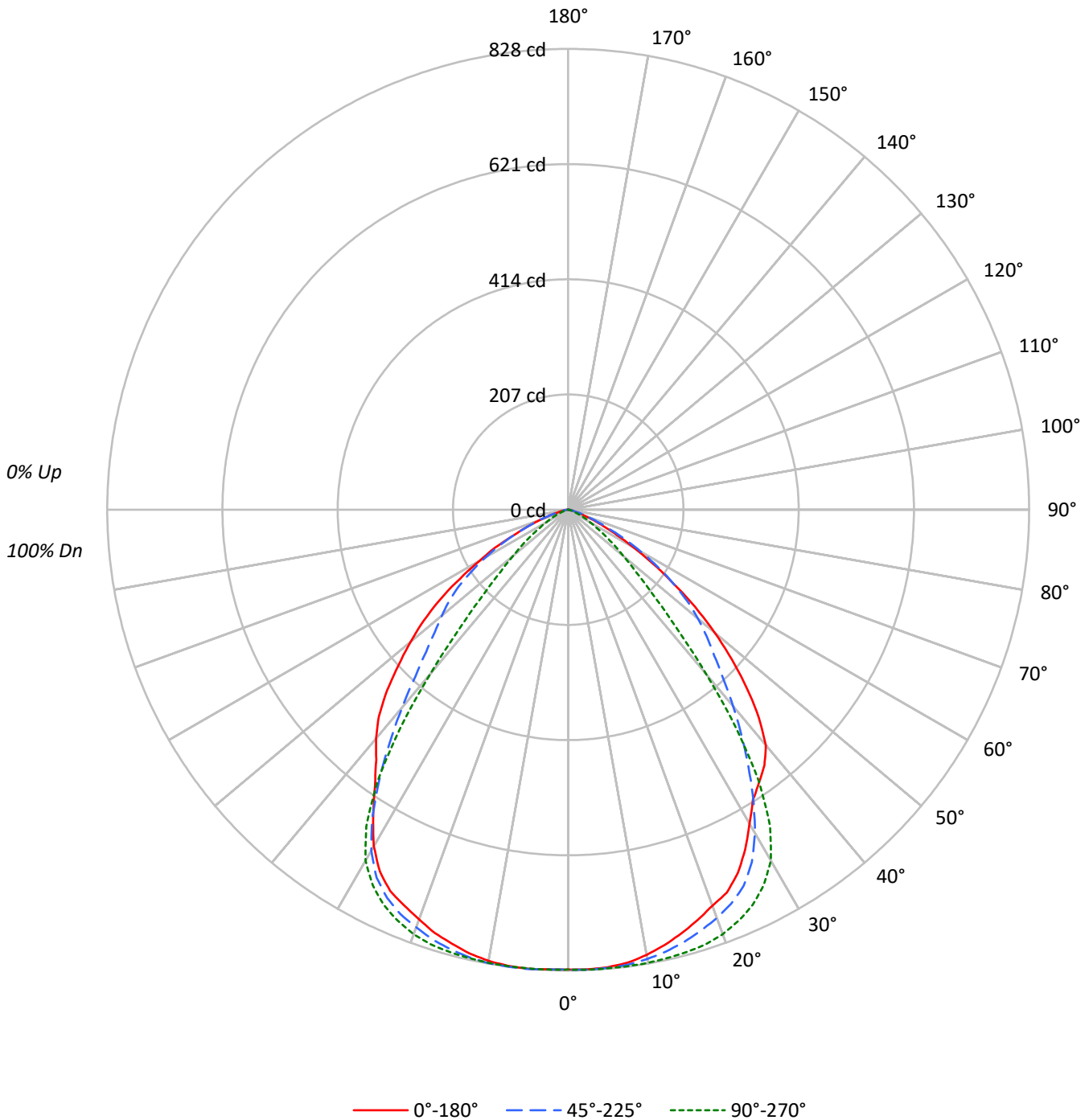
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	25480	25480	25480
5°	25534	25602	25630
10°	25428	25886	25773
15°	25147	26264	25769
20°	24844	26633	25701
25°	24521	26665	25729
30°	23198	25915	24857
35°	22507	22523	22756
40°	22228	15498	21600
45°	19807	9302	20078
50°	16469	6193	17745
55°	12349	4269	15042
60°	8369	2843	11354
65°	5049	1846	7800
70°	2795	1001	4796
75°	1263	417	2478
80°	1101	479	1740
85°	1238	637	1734



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	5.0
10°-20°	229.0	14.6
20°-30°	347.6	22.2
30°-40°	365.1	23.3
40°-50°	273.7	17.5
50°-60°	175.6	11.2
60°-70°	75.1	4.8
70°-80°	17.7	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°	655.4	41.9
0°-40°	1020.5	65.2
0°-60°	1469.8	93.9
0°-90°	1566.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1566.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	826	826	826	826	826	
5°	825	826	827	828	828	78
15°	788	804	823	817	807	222
25°	721	746	784	770	756	329
35°	598	565	598	591	604	375
45°	454	371	213	361	460	348
55°	230	230	79	240	280	208
65°	69	82	25	105	107	74
75°	11	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°	826.3	826.3	826.3	826.3	826.3	826.3	826.3	826.3	826.3	826.3	826.3
2.5°	826.7	827.6	827.1	827.1	826.7	827.1	827.1	828.0	828.0	827.1	826.7
5°	824.9	825.8	825.8	824.9	824.9	827.1	825.8	826.7	826.7	826.3	826.3
7.5°	820.9	820.9	822.7	821.4	821.4	822.7	822.3	823.1	824.0	824.5	824.5
10°	812.1	812.9	813.4	813.4	813.8	815.2	816.1	817.8	818.7	819.6	820.0
12.5°	801.0	802.3	802.7	802.3	803.6	805.4	807.6	809.8	811.2	812.9	814.3
15°	787.7	787.7	788.6	789.9	790.8	793.4	795.7	798.3	801.9	804.1	806.3
17.5°	773.0	773.9	775.2	775.2	777.0	781.5	782.8	786.8	790.8	793.0	797.4
20°	757.1	758.0	759.3	760.2	762.4	765.9	768.6	772.1	776.6	780.6	785.0
22.5°	744.6	742.9	743.8	744.6	746.9	750.0	753.1	757.5	761.9	765.9	770.4
25°	720.7	721.1	722.5	723.4	726.0	728.7	732.2	737.5	741.5	746.0	750.9
27.5°	688.3	688.8	691.0	691.0	693.2	697.6	699.8	704.3	709.6	714.0	719.8
30°	651.5	652.4	652.4	654.2	655.5	657.7	659.9	664.4	667.0	671.0	679.0
32.5°	617.8	618.7	618.2	617.8	616.5	616.0	615.6	616.5	617.4	618.7	621.8
35°	597.9	595.6	593.9	590.8	587.2	582.8	578.8	573.5	568.6	564.6	560.2
37.5°	578.8	578.3	575.7	571.2	564.1	556.2	546.8	535.3	523.8	511.4	499.4
40°	552.2	550.8	548.6	542.4	534.4	524.7	512.3	498.1	479.4	460.4	440.8
42.5°	506.9	507.4	504.7	499.8	492.3	483.0	470.1	454.6	434.6	412.0	386.7
45°	454.2	454.2	453.3	449.3	444.0	436.4	426.7	413.8	394.3	371.2	344.2
47.5°	399.2	399.6	398.3	397.4	395.2	390.3	383.2	373.4	359.7	337.5	310.5
50°	343.3	343.3	345.5	345.0	345.0	343.3	340.2	334.4	322.4	304.7	279.4
52.5°	287.4	288.3	289.6	291.4	293.6	297.1	293.6	290.9	283.4	269.6	247.9
55°	229.7	230.6	232.8	235.9	238.6	242.2	243.0	243.0	239.0	229.7	213.3
57.5°	180.5	179.2	181.0	183.6	187.2	190.7	193.4	196.5	196.0	189.8	176.5
60°	135.7	136.2	137.5	140.2	142.8	145.9	149.5	152.1	153.5	150.4	141.9
62.5°	98.9	98.9	100.7	103.3	104.7	109.1	111.3	112.7	114.0	113.5	108.2
65°	69.2	70.1	71.0	72.3	73.6	76.3	77.6	80.3	81.2	81.6	77.6
67.5°	48.8	47.5	48.3	49.2	50.6	52.3	55.0	55.0	56.3	56.3	53.7
70°	31.0	31.0	31.5	32.8	33.7	34.2	35.0	35.9	37.3	36.8	36.8
72.5°	20.8	20.4	20.8	21.3	21.7	23.1	23.1	23.5	24.4	24.8	23.1
75°	10.6	11.1	12.0	11.5	12.9	12.0	12.4	13.7	13.3	12.4	12.4
77.5°	8.9	8.9	8.9	8.4	9.3	9.3	8.9	9.8	9.3	9.3	8.9
80°	6.2	6.7	6.2	5.8	6.2	5.8	5.8	5.8	5.8	5.8	5.3
82.5°	4.9	4.0	4.4	4.0	4.4	4.4	4.0	3.5	3.5	4.0	3.5
85°	3.5	2.7	3.1	3.1	2.7	2.7	2.7	2.7	2.7	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°	826.3	826.3	826.3	826.3	826.3	826.3	826.3	826.3	826.3	826.3	826.3
2.5°	827.6	827.1	828.0	827.6	827.6	827.1	827.6	827.1	828.0	826.3	826.7
5°	827.6	826.7	827.1	827.6	828.0	827.1	827.1	827.1	828.0	827.1	827.6
7.5°	825.8	825.4	826.7	827.6	827.1	826.7	827.6	827.1	828.0	827.6	828.5
10°	822.3	822.7	823.6	824.9	825.4	825.8	826.7	826.7	828.0	826.3	827.1
12.5°	816.9	818.7	820.9	821.8	823.6	823.6	824.5	824.9	825.8	825.4	826.7
15°	810.3	812.5	815.2	817.4	819.6	820.9	822.3	822.7	824.0	822.7	823.1
17.5°	802.3	805.0	809.0	811.6	815.2	816.5	818.3	819.2	820.5	819.6	820.0
20°	791.2	794.3	798.8	802.7	805.0	808.1	810.3	811.6	812.5	811.6	812.1
22.5°	775.7	780.1	785.9	789.0	793.4	796.1	796.5	799.6	801.9	799.6	800.5
25°	757.5	761.9	766.4	773.0	777.0	780.1	783.2	783.7	785.9	785.4	785.0
27.5°	727.3	733.1	740.7	746.0	751.3	756.2	759.7	760.6	762.8	761.9	762.4
30°	686.1	692.3	699.4	707.8	715.4	720.3	724.7	727.8	730.0	728.7	728.2
32.5°	627.6	633.8	641.3	649.7	658.6	665.7	671.0	675.0	677.7	676.8	674.6
35°	560.6	562.4	567.2	573.9	581.4	589.0	593.9	598.3	601.4	602.3	602.3
37.5°	491.9	486.1	482.5	482.5	487.0	490.1	494.5	497.2	502.1	503.8	505.2
40°	425.3	412.0	399.6	390.3	384.1	383.6	383.6	385.0	389.4	395.2	400.5
42.5°	365.9	344.6	325.5	308.2	295.8	288.7	285.6	286.1	289.6	294.9	303.8
45°	318.4	291.8	267.9	247.0	230.2	219.1	213.8	213.3	216.0	222.2	232.0
47.5°	281.6	253.2	226.2	202.2	184.1	172.1	165.9	164.1	165.9	171.6	183.2
50°	251.0	221.8	193.8	169.0	149.5	137.0	131.3	129.1	131.3	136.2	147.7
52.5°	222.6	192.5	166.3	142.4	121.5	110.9	104.7	103.3	104.7	110.4	119.8
55°	189.8	164.1	138.4	114.4	96.2	85.6	80.7	79.4	80.7	86.0	95.8
57.5°	157.4	135.3	112.7	90.9	75.4	66.1	61.6	59.9	63.0	66.5	78.1
60°	127.3	109.5	90.5	71.4	58.5	50.1	46.6	46.1	47.0	51.4	59.4
62.5°	99.8	85.2	70.1	54.6	43.9	40.4	35.9	35.5	36.4	39.0	45.2
65°	71.9	62.5	51.0	39.9	31.5	26.6	24.8	25.3	26.2	27.9	33.7
67.5°	50.1	43.5	35.5	27.9	21.7	19.5	17.7	17.3	17.7	20.8	24.0
70°	33.7	29.7	24.0	21.3	15.1	12.0	12.4	11.1	12.9	12.9	15.5
72.5°	22.2	19.5	16.0	12.4	10.6	8.4	8.4	8.0	8.9	9.3	11.5
75°	11.5	8.9	8.9	6.2	4.4	2.2	4.0	3.5	3.1	3.5	4.4
77.5°	8.0	6.7	6.2	4.9	4.4	3.5	3.5	3.5	3.5	4.0	4.4
80°	4.9	4.9	3.5	3.1	2.7	2.2	2.7	2.7	2.7	2.7	3.1
82.5°	3.1	2.7	2.7	2.2	2.2	1.8	1.8	1.8	1.8	1.8	2.7
85°	2.7	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°	826.3	826.3	826.3	826.3	826.3	826.3	826.3	826.3	826.3	826.3	826.3
2.5°	827.6	828.0	828.0	827.6	827.6	826.7	828.5	827.1	827.6	829.4	828.0
5°	828.5	828.9	828.9	828.5	828.5	828.5	828.9	828.9	828.5	828.0	828.9
7.5°	830.2	829.8	829.8	828.9	828.9	828.0	828.9	827.6	828.5	827.6	828.9
10°	828.0	828.5	828.0	827.6	827.6	827.1	827.1	825.8	826.3	824.9	825.8
12.5°	826.7	826.3	826.3	825.4	824.5	823.6	823.1	821.8	821.8	818.7	820.0
15°	823.1	823.6	822.3	820.5	819.6	817.4	816.5	814.7	812.9	810.7	811.2
17.5°	820.0	818.7	816.9	815.2	811.6	809.8	808.1	805.4	804.5	801.9	801.0
20°	810.7	809.8	807.6	804.5	802.3	798.3	796.5	793.9	791.7	789.0	787.7
22.5°	798.8	797.9	795.2	792.1	788.6	786.8	785.0	780.1	777.9	775.2	774.8
25°	783.7	782.3	779.7	776.1	774.4	769.5	767.7	764.2	763.3	760.6	760.2
27.5°	760.6	758.8	755.7	751.3	748.2	745.1	743.3	740.7	739.8	737.1	736.7
30°	726.0	723.8	717.6	715.8	710.5	707.4	707.4	703.8	704.3	702.5	702.5
32.5°	671.5	667.9	663.0	659.5	655.9	654.2	654.2	652.8	653.7	653.7	654.6
35°	599.2	594.3	591.6	589.4	589.4	591.2	596.5	597.9	600.5	602.7	604.5
37.5°	506.5	506.0	509.1	511.8	518.5	526.0	535.3	543.3	550.8	556.2	561.5
40°	406.3	417.3	426.2	438.6	448.8	463.5	480.3	494.1	506.9	516.2	526.0
42.5°	317.1	331.3	349.9	368.1	386.3	406.3	428.4	447.5	464.4	477.2	487.4
45°	247.0	266.5	289.2	312.2	335.7	360.6	383.6	403.1	420.9	434.2	444.4
47.5°	199.1	220.4	246.1	271.4	298.0	324.2	349.9	366.8	381.4	392.1	401.4
50°	164.5	187.2	214.2	243.0	269.6	295.8	318.0	334.4	346.4	355.7	361.5
52.5°	137.5	161.4	190.3	219.1	245.7	269.6	289.6	302.0	311.8	318.4	323.8
55°	113.5	136.6	163.7	190.7	216.9	239.5	255.9	265.2	272.8	276.7	279.8
57.5°	92.7	114.0	138.8	163.7	186.3	204.9	217.8	227.1	230.6	233.7	233.3
60°	72.7	92.7	115.3	136.6	156.1	171.2	180.5	185.8	188.5	189.8	188.9
62.5°	57.2	75.4	92.7	111.3	125.5	138.4	147.2	147.2	148.6	149.0	150.4
65°	42.6	56.3	71.4	85.2	96.7	105.1	110.0	111.3	113.1	112.7	111.8
67.5°	31.5	41.7	52.8	63.0	71.0	76.3	79.8	82.9	82.5	81.6	81.2
70°	21.7	28.4	38.1	44.4	50.1	55.4	56.3	56.8	57.2	57.7	56.8
72.5°	15.1	20.0	25.3	30.6	34.2	36.4	38.6	39.0	39.0	39.0	38.6
75°	7.5	10.2	15.1	17.3	20.4	21.3	23.1	23.1	24.4	22.6	22.2
77.5°	6.7	8.0	10.6	12.4	13.7	15.1	15.5	16.9	16.4	15.5	16.0
80°	4.0	4.9	6.7	7.5	9.3	9.8	10.2	10.6	10.2	10.6	10.6
82.5°	3.1	3.5	4.4	4.4	5.8	5.8	6.2	6.2	6.7	6.7	6.7
85°	1.8	3.1	2.7	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	2.7	2.7	3.1	2.7
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):

	165°	170°	175°	180°
0°	826.3	826.3	826.3	826.3
2.5°	827.6	828.5	827.1	826.7
5°	828.9	828.9	828.0	828.0
7.5°	828.9	828.9	827.6	826.7
10°	825.4	825.4	824.0	823.1
12.5°	818.7	818.7	818.3	816.9
15°	810.3	810.3	808.5	807.2
17.5°	798.8	799.6	797.4	797.4
20°	786.3	785.9	784.1	783.2
22.5°	773.5	772.6	772.1	769.5
25°	759.7	758.8	757.5	756.2
27.5°	736.2	735.8	734.4	732.7
30°	700.3	699.8	698.1	698.1
32.5°	653.7	653.3	651.5	652.0
35°	605.4	607.2	606.3	604.5
37.5°	565.0	566.4	567.2	566.4
40°	531.3	535.3	535.8	536.6
42.5°	495.4	500.7	502.5	503.4
45°	452.4	457.3	461.2	460.4
47.5°	408.5	412.0	415.6	412.9
50°	366.3	368.6	369.9	369.9
52.5°	326.4	326.4	326.0	326.4
55°	280.7	280.7	279.0	279.8
57.5°	232.8	233.7	232.4	230.2
60°	188.5	186.3	185.4	184.1
62.5°	146.8	146.8	143.7	147.7
65°	110.0	108.7	107.3	106.9
67.5°	79.8	79.4	78.1	77.6
70°	56.3	54.6	54.1	53.2
72.5°	37.7	37.7	36.8	36.8
75°	23.1	20.8	20.4	20.8
77.5°	16.0	15.5	15.5	15.1
80°	10.6	10.2	11.1	9.8
82.5°	6.7	7.1	6.7	7.1
85°	4.4	5.3	4.9	4.9
87.5°	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0

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