

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: P244609

Luminaire Tested: **LSR8B15D010 EC8B15840 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244609
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 EC8B15840 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1556.0 lumens
Efficiency: N/A
Efficacy: 108.1 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

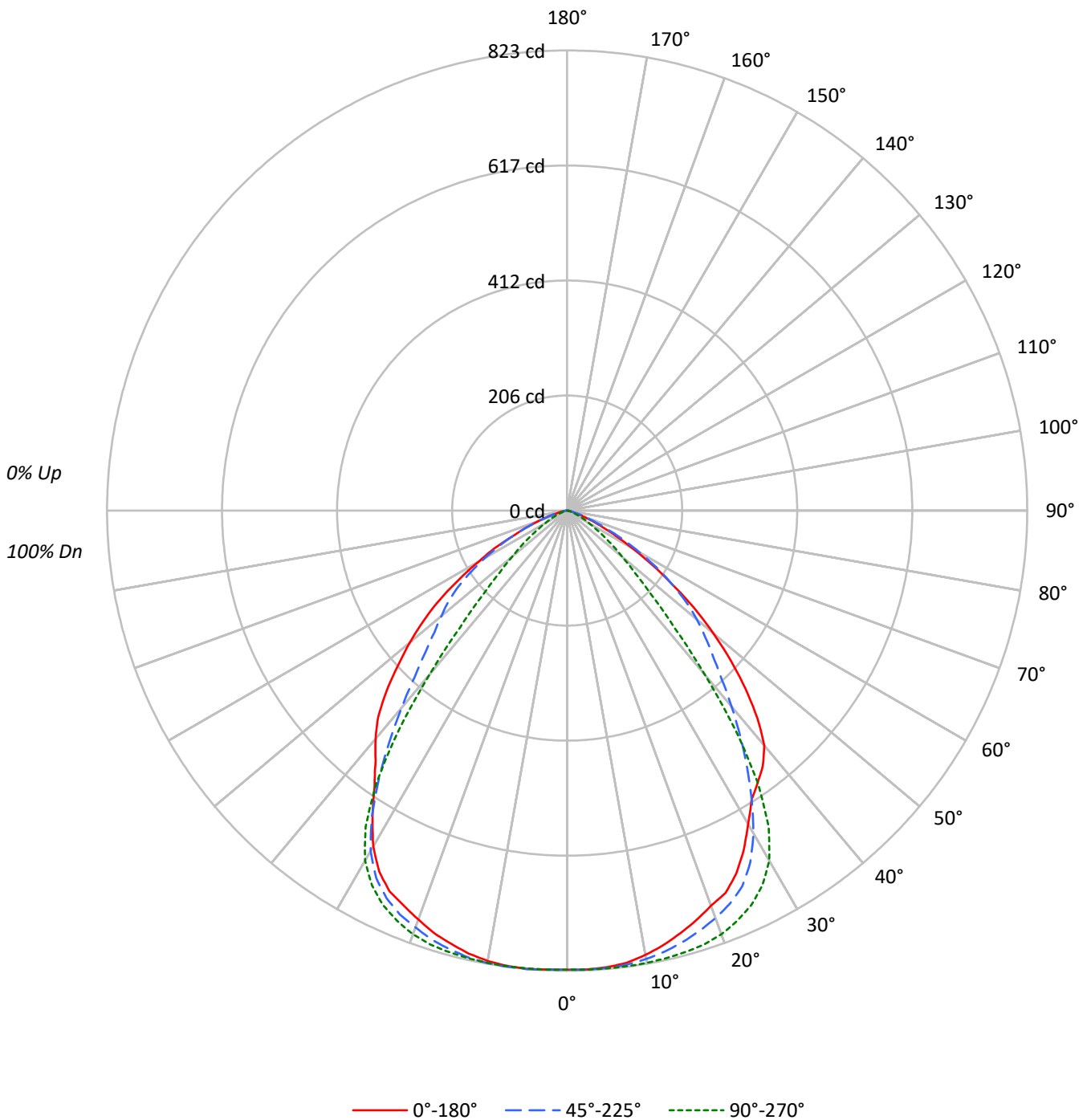
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	25317	25317	25317
5°	25373	25441	25466
10°	25266	25720	25610
15°	24984	26098	25603
20°	24684	26462	25537
25°	24365	26495	25566
30°	23052	25747	24697
35°	22361	22379	22609
40°	22083	15397	21463
45°	19681	9245	19947
50°	16364	6150	17630
55°	12274	4242	14951
60°	8313	2825	11280
65°	5013	1831	7749
70°	2777	992	4769
75°	1263	417	2466
80°	1101	462	1723
85°	1238	637	1734



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	5.0
10°-20°	227.5	14.6
20°-30°	345.4	22.2
30°-40°	362.7	23.3
40°-50°	272.0	17.5
50°-60°	174.5	11.2
60°-70°	74.6	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°	651.3	41.9
0°-40°	1014.0	65.2
0°-60°	1460.4	93.9
0°-90°	1556.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1556.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	821	821	821	821	821	
5°	820	821	822	823	823	78
15°	783	799	818	812	802	221
25°	716	741	779	765	751	327
35°	594	561	594	587	601	373
45°	451	369	212	358	457	346
55°	228	228	79	238	278	207
65°	69	81	25	104	106	73
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°	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0
2.5°	821.4	822.3	821.9	821.9	821.4	821.9	821.9	822.7	822.7	821.9	821.4
5°	819.7	820.5	820.5	819.7	819.7	821.9	820.5	821.4	821.4	821.0	821.0
7.5°	815.7	815.7	817.5	816.1	816.1	817.5	817.0	817.9	818.8	819.2	819.2
10°	806.9	807.8	808.2	808.2	808.6	810.0	810.8	812.6	813.5	814.4	814.8
12.5°	795.9	797.2	797.6	797.2	798.5	800.3	802.5	804.7	806.0	807.8	809.1
15°	782.6	782.6	783.5	784.8	785.7	788.4	790.6	793.2	796.7	798.9	801.1
17.5°	768.1	769.0	770.3	770.3	772.1	776.5	777.8	781.8	785.7	787.9	792.3
20°	752.2	753.1	754.4	755.3	757.5	761.0	763.7	767.2	771.6	775.6	780.0
22.5°	739.9	738.1	739.0	739.9	742.1	745.2	748.3	752.7	757.1	761.0	765.5
25°	716.1	716.5	717.9	718.7	721.4	724.0	727.6	732.8	736.8	741.2	746.1
27.5°	683.9	684.4	686.6	686.6	688.8	693.2	695.4	699.8	705.1	709.5	715.2
30°	647.4	648.2	648.2	650.0	651.3	653.5	655.7	660.1	662.8	666.7	674.7
32.5°	613.9	614.7	614.3	613.9	612.5	612.1	611.7	612.5	613.4	614.7	617.8
35°	594.0	591.8	590.1	587.0	583.5	579.0	575.1	569.8	564.9	561.0	556.6
37.5°	575.1	574.6	572.0	567.6	560.5	552.6	543.4	531.9	520.4	508.1	496.2
40°	548.6	547.3	545.1	538.9	531.0	521.3	509.0	494.9	476.4	457.4	438.0
42.5°	503.7	504.1	501.5	496.6	489.2	479.9	467.1	451.7	431.9	409.4	384.3
45°	451.3	451.3	450.4	446.4	441.1	433.6	423.9	411.2	391.8	368.8	342.0
47.5°	396.6	397.0	395.7	394.8	392.6	387.8	380.7	371.1	357.4	335.3	308.5
50°	341.1	341.1	343.3	342.8	342.8	341.1	338.0	332.3	320.4	302.7	277.6
52.5°	285.6	286.4	287.8	289.5	291.7	295.2	291.7	289.1	281.6	267.9	246.3
55°	228.3	229.2	231.4	234.4	237.1	240.6	241.5	241.5	237.5	228.3	212.0
57.5°	179.4	178.0	179.8	182.4	186.0	189.5	192.1	195.2	194.8	188.6	175.4
60°	134.8	135.3	136.6	139.3	141.9	145.0	148.5	151.2	152.5	149.4	141.0
62.5°	98.3	98.3	100.0	102.7	104.0	108.4	110.6	111.9	113.2	112.8	107.5
65°	68.7	69.6	70.5	71.8	73.1	75.8	77.1	79.8	80.6	81.1	77.1
67.5°	48.5	47.2	48.0	48.9	50.2	52.0	54.6	54.6	56.0	56.0	53.3
70°	30.8	30.8	31.3	32.6	33.5	33.9	34.8	35.7	37.0	36.6	36.6
72.5°	20.7	20.3	20.7	21.2	21.6	22.9	22.9	23.4	24.2	24.7	22.9
75°	10.6	11.0	11.9	11.5	12.8	11.9	12.3	13.7	13.2	12.3	12.3
77.5°	8.8	8.8	8.8	8.4	9.3	9.3	8.8	9.7	9.3	9.3	8.8
80°	6.2	6.6	6.2	5.7	6.2	5.7	5.7	5.7	5.7	5.7	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	2.6	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°	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0
2.5°	822.3	821.9	822.7	822.3	822.3	821.9	822.3	821.9	822.7	821.0	821.4
5°	822.3	821.4	821.9	822.3	822.7	821.9	821.9	821.9	822.7	821.9	822.3
7.5°	820.5	820.1	821.4	822.3	821.9	821.4	822.3	821.9	822.7	822.3	823.2
10°	817.0	817.5	818.3	819.7	820.1	820.5	821.4	821.4	822.7	821.0	821.9
12.5°	811.7	813.5	815.7	816.6	818.3	818.3	819.2	819.7	820.5	820.1	821.4
15°	805.1	807.3	810.0	812.2	814.4	815.7	817.0	817.5	818.8	817.5	817.9
17.5°	797.2	799.8	803.8	806.4	810.0	811.3	813.0	813.9	815.3	814.4	814.8
20°	786.2	789.3	793.7	797.6	799.8	802.9	805.1	806.4	807.3	806.4	806.9
22.5°	770.7	775.1	780.9	784.0	788.4	791.0	791.5	794.5	796.7	794.5	795.4
25°	752.7	757.1	761.5	768.1	772.1	775.1	778.2	778.7	780.9	780.4	780.0
27.5°	722.7	728.4	735.9	741.2	746.5	751.4	754.9	755.8	758.0	757.1	757.5
30°	681.7	687.9	694.9	703.3	710.8	715.7	720.1	723.1	725.3	724.0	723.6
32.5°	623.6	629.7	637.2	645.6	654.4	661.4	666.7	670.7	673.4	672.5	670.3
35°	557.0	558.8	563.6	570.2	577.7	585.2	590.1	594.5	597.6	598.4	598.4
37.5°	488.7	483.0	479.5	479.5	483.9	486.9	491.4	494.0	498.8	500.6	501.9
40°	422.6	409.4	397.0	387.8	381.6	381.2	381.2	382.5	386.9	392.6	397.9
42.5°	363.6	342.4	323.5	306.3	293.9	286.9	283.8	284.2	287.8	293.0	301.9
45°	316.4	290.0	266.2	245.5	228.7	217.7	212.4	212.0	214.6	220.8	230.5
47.5°	279.8	251.6	224.7	200.9	182.9	171.0	164.8	163.1	164.8	170.5	182.0
50°	249.4	220.3	192.6	167.9	148.5	136.2	130.4	128.2	130.4	135.3	146.7
52.5°	221.2	191.3	165.3	141.5	120.7	110.2	104.0	102.7	104.0	109.7	119.0
55°	188.6	163.1	137.5	113.7	95.6	85.1	80.2	78.9	80.2	85.5	95.2
57.5°	156.4	134.4	111.9	90.3	74.9	65.7	61.3	59.5	62.6	66.1	77.6
60°	126.5	108.9	89.9	70.9	58.2	49.8	46.3	45.8	46.7	51.1	59.0
62.5°	99.2	84.6	69.6	54.2	43.6	40.1	35.7	35.3	36.1	38.8	45.0
65°	71.4	62.1	50.7	39.7	31.3	26.4	24.7	25.1	26.0	27.8	33.5
67.5°	49.8	43.2	35.3	27.8	21.6	19.4	17.6	17.2	17.6	20.7	23.8
70°	33.5	29.5	23.8	21.2	15.0	11.9	12.3	11.0	12.8	12.8	15.4
72.5°	22.0	19.4	15.9	12.3	10.6	8.4	8.4	7.9	8.8	9.3	11.5
75°	11.5	8.8	8.8	6.2	4.4	2.2	4.0	3.5	3.1	3.5	4.4
77.5°	7.9	6.6	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	2.6	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°	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0
2.5°	822.3	822.7	822.7	822.3	822.3	821.4	823.2	821.9	822.3	824.1	822.7
5°	823.2	823.6	823.6	823.2	823.2	823.2	823.6	823.6	823.2	822.7	823.6
7.5°	824.9	824.5	824.5	823.6	823.6	822.7	823.6	822.3	823.2	822.3	823.6
10°	822.7	823.2	822.7	822.3	822.3	821.9	821.9	820.5	821.0	819.7	820.5
12.5°	821.4	821.0	821.0	820.1	819.2	818.3	817.9	816.6	816.6	813.5	814.8
15°	817.9	818.3	817.0	815.3	814.4	812.2	811.3	809.5	807.8	805.6	806.0
17.5°	814.8	813.5	811.7	810.0	806.4	804.7	802.9	800.3	799.4	796.7	795.9
20°	805.6	804.7	802.5	799.4	797.2	793.2	791.5	788.8	786.6	784.0	782.6
22.5°	793.7	792.8	790.1	787.0	783.5	781.8	780.0	775.1	772.9	770.3	769.9
25°	778.7	777.3	774.7	771.2	769.4	764.6	762.8	759.3	758.4	755.8	755.3
27.5°	755.8	754.0	750.9	746.5	743.4	740.3	738.6	735.9	735.0	732.4	732.0
30°	721.4	719.2	713.0	711.3	706.0	702.9	702.9	699.3	699.8	698.0	698.0
32.5°	667.2	663.7	658.8	655.3	651.8	650.0	650.0	648.7	649.6	649.6	650.4
35°	595.4	590.5	587.9	585.7	585.7	587.4	592.7	594.0	596.7	598.9	600.6
37.5°	503.2	502.8	505.9	508.5	515.1	522.6	531.9	539.8	547.3	552.6	557.9
40°	403.7	414.7	423.5	435.8	446.0	460.5	477.2	490.9	503.7	512.9	522.6
42.5°	315.1	329.2	347.7	365.8	383.8	403.7	425.7	444.6	461.4	474.2	484.3
45°	245.5	264.8	287.3	310.2	333.6	358.3	381.2	400.6	418.2	431.4	441.6
47.5°	197.9	219.0	244.6	269.7	296.1	322.1	347.7	364.4	379.0	389.6	398.8
50°	163.5	186.0	212.8	241.5	267.9	293.9	316.0	332.3	344.2	353.4	359.1
52.5°	136.6	160.4	189.1	217.7	244.1	267.9	287.8	300.1	309.8	316.4	321.7
55°	112.8	135.7	162.6	189.5	215.5	238.0	254.3	263.5	271.0	275.0	278.1
57.5°	92.1	113.2	137.9	162.6	185.1	203.6	216.4	225.6	229.2	232.2	231.8
60°	72.3	92.1	114.6	135.7	155.1	170.1	179.4	184.6	187.3	188.6	187.7
62.5°	56.8	74.9	92.1	110.6	124.7	137.5	146.3	146.3	147.6	148.1	149.4
65°	42.3	56.0	70.9	84.6	96.1	104.4	109.3	110.6	112.4	111.9	111.0
67.5°	31.3	41.4	52.4	62.6	70.5	75.8	79.3	82.4	82.0	81.1	80.6
70°	21.6	28.2	37.9	44.1	49.8	55.1	56.0	56.4	56.8	57.3	56.4
72.5°	15.0	19.8	25.1	30.4	33.9	36.1	38.3	38.8	38.8	38.8	38.3
75°	7.5	10.1	15.0	17.2	20.3	21.2	22.9	22.9	24.2	22.5	22.0
77.5°	6.6	7.9	10.6	12.3	13.7	15.0	15.4	16.7	16.3	15.4	15.9
80°	4.0	4.9	6.6	7.5	9.3	9.7	10.1	10.6	10.1	10.6	10.6
82.5°	3.1	3.5	4.4	4.4	5.7	5.7	6.2	6.2	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°	821.0	821.0	821.0	821.0
2.5°	822.3	823.2	821.9	821.4
5°	823.6	823.6	822.7	822.7
7.5°	823.6	823.6	822.3	821.4
10°	820.1	820.1	818.8	817.9
12.5°	813.5	813.5	813.0	811.7
15°	805.1	805.1	803.3	802.0
17.5°	793.7	794.5	792.3	792.3
20°	781.3	780.9	779.1	778.2
22.5°	768.5	767.7	767.2	764.6
25°	754.9	754.0	752.7	751.4
27.5°	731.5	731.1	729.8	728.0
30°	695.8	695.4	693.6	693.6
32.5°	649.6	649.1	647.4	647.8
35°	601.5	603.3	602.4	600.6
37.5°	561.4	562.7	563.6	562.7
40°	527.9	531.9	532.3	533.2
42.5°	492.2	497.5	499.3	500.2
45°	449.5	454.3	458.3	457.4
47.5°	405.9	409.4	412.9	410.3
50°	364.0	366.2	367.5	367.5
52.5°	324.3	324.3	323.9	324.3
55°	278.9	278.9	277.2	278.1
57.5°	231.4	232.2	230.9	228.7
60°	187.3	185.1	184.2	182.9
62.5°	145.9	145.9	142.8	146.7
65°	109.3	108.0	106.6	106.2
67.5°	79.3	78.9	77.6	77.1
70°	56.0	54.2	53.8	52.9
72.5°	37.5	37.5	36.6	36.6
75°	22.9	20.7	20.3	20.7
77.5°	15.9	15.4	15.4	15.0
80°	10.6	10.1	11.0	9.7
82.5°	6.6	7.1	6.6	7.1
85°	4.4	5.3	4.9	4.9
87.5°	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0

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