

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: P246187

Luminaire Tested: **LSR8B15D010 EC8B15835 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246187
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 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1548.0 lumens
Efficiency: N/A
Efficacy: 107.5 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

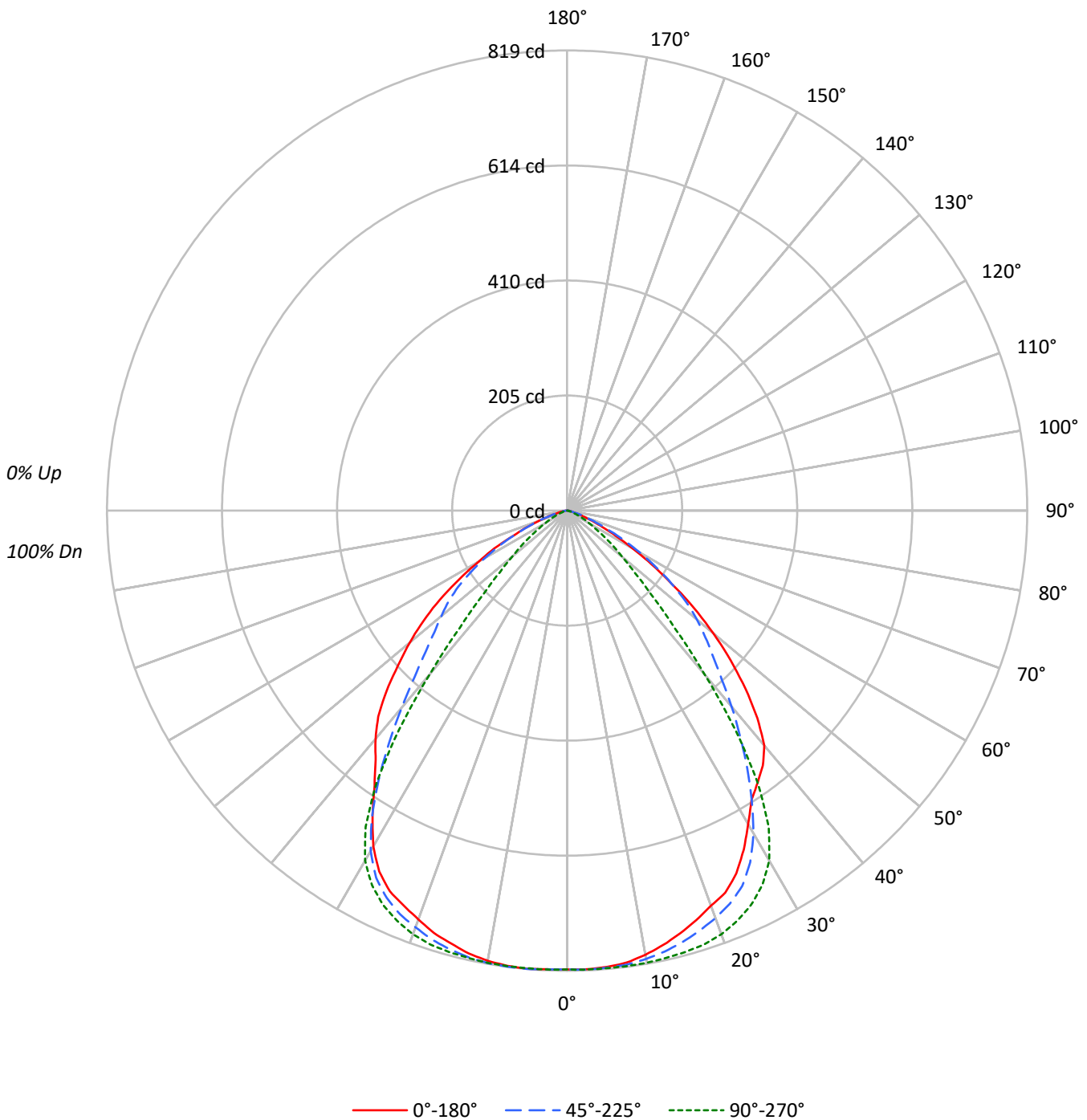
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	25187	25187	25187
5°	25240	25308	25336
10°	25134	25588	25479
15°	24856	25961	25472
20°	24559	26328	25406
25°	24239	26358	25433
30°	22931	25615	24572
35°	22248	22263	22496
40°	21971	15317	21355
45°	19576	9197	19847
50°	16277	6121	17539
55°	12209	4220	14870
60°	8276	2812	11218
65°	4991	1824	7712
70°	2768	992	4742
75°	1251	417	2454
80°	1083	462	1705
85°	1238	601	1698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	5.0
10°-20°	226.4	14.6
20°-30°	343.6	22.2
30°-40°	360.9	23.3
40°-50°	270.6	17.5
50°-60°	173.6	11.2
60°-70°	74.3	4.8
70°-80°	17.5	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°	647.9	41.9
0°-40°	1008.8	65.2
0°-60°	1452.9	93.9
0°-90°	1548.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1548.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	817	817	817	817	817	
5°	815	817	818	819	818	77
15°	779	795	813	808	798	220
25°	712	737	775	761	748	325
35°	591	558	591	584	598	371
45°	449	367	211	356	455	344
55°	227	227	78	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°	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8
2.5°	817.2	818.1	817.6	817.6	817.2	817.6	817.6	818.5	818.5	817.6	817.2
5°	815.4	816.3	816.3	815.4	815.4	817.6	816.3	817.2	817.2	816.8	816.8
7.5°	811.5	811.5	813.2	811.9	811.9	813.2	812.8	813.7	814.6	815.0	815.0
10°	802.7	803.6	804.0	804.0	804.5	805.8	806.7	808.4	809.3	810.2	810.6
12.5°	791.8	793.1	793.5	793.1	794.4	796.1	798.3	800.5	801.9	803.6	804.9
15°	778.6	778.6	779.5	780.8	781.7	784.3	786.5	789.1	792.6	794.8	797.0
17.5°	764.1	765.0	766.3	766.3	768.1	772.5	773.8	777.7	781.7	783.9	788.3
20°	748.4	749.2	750.6	751.4	753.6	757.1	759.8	763.3	767.7	771.6	776.0
22.5°	736.1	734.3	735.2	736.1	738.3	741.4	744.4	748.8	753.2	757.1	761.5
25°	712.4	712.9	714.2	715.0	717.7	720.3	723.8	729.1	733.0	737.4	742.2
27.5°	680.4	680.9	683.0	683.0	685.2	689.6	691.8	696.2	701.5	705.8	711.5
30°	644.0	644.9	644.9	646.7	648.0	650.2	652.4	656.7	659.4	663.3	671.2
32.5°	610.7	611.6	611.1	610.7	609.4	608.9	608.5	609.4	610.3	611.6	614.6
35°	591.0	588.8	587.0	584.0	580.5	576.1	572.1	566.9	562.0	558.1	553.7
37.5°	572.1	571.7	569.1	564.7	557.7	549.8	540.6	529.2	517.8	505.5	493.7
40°	545.8	544.5	542.3	536.2	528.3	518.6	506.4	492.3	473.9	455.1	435.8
42.5°	501.1	501.5	498.9	494.1	486.6	477.4	464.7	449.4	429.6	407.3	382.3
45°	448.9	448.9	448.1	444.1	438.8	431.4	421.7	409.0	389.7	366.9	340.2
47.5°	394.6	395.0	393.7	392.8	390.6	385.8	378.8	369.1	355.6	333.6	306.9
50°	339.3	339.3	341.5	341.1	341.1	339.3	336.3	330.6	318.7	301.2	276.2
52.5°	284.1	285.0	286.3	288.0	290.2	293.7	290.2	287.6	280.1	266.5	245.1
55°	227.1	228.0	230.2	233.2	235.9	239.4	240.2	240.2	236.3	227.1	210.9
57.5°	178.4	177.1	178.9	181.5	185.0	188.5	191.1	194.2	193.8	187.6	174.5
60°	134.2	134.6	135.9	138.5	141.2	144.2	147.7	150.4	151.7	148.6	140.3
62.5°	97.8	97.8	99.5	102.1	103.5	107.9	110.0	111.4	112.7	112.2	107.0
65°	68.4	69.3	70.1	71.5	72.8	75.4	76.7	79.3	80.2	80.7	76.7
67.5°	48.2	46.9	47.8	48.7	50.0	51.7	54.4	54.4	55.7	55.7	53.0
70°	30.7	30.7	31.1	32.4	33.3	33.8	34.6	35.5	36.8	36.4	36.4
72.5°	20.6	20.2	20.6	21.0	21.5	22.8	22.8	23.2	24.1	24.6	22.8
75°	10.5	11.0	11.8	11.4	12.7	11.8	12.3	13.6	13.2	12.3	12.3
77.5°	8.8	8.8	8.8	8.3	9.2	9.2	8.8	9.6	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	3.9	4.4	3.9	4.4	4.4	3.9	3.5	3.5	3.9	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	1.7	1.7	1.7	1.3	1.7	1.7	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°	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8
2.5°	818.1	817.6	818.5	818.1	818.1	817.6	818.1	817.6	818.5	816.8	817.2
5°	818.1	817.2	817.6	818.1	818.5	817.6	817.6	817.6	818.5	817.6	818.1
7.5°	816.3	815.9	817.2	818.1	817.6	817.2	818.1	817.6	818.5	818.1	818.9
10°	812.8	813.2	814.1	815.4	815.9	816.3	817.2	817.2	818.5	816.8	817.6
12.5°	807.6	809.3	811.5	812.4	814.1	814.1	815.0	815.4	816.3	815.9	817.2
15°	801.0	803.2	805.8	808.0	810.2	811.5	812.8	813.2	814.6	813.2	813.7
17.5°	793.1	795.7	799.7	802.3	805.8	807.1	808.9	809.7	811.1	810.2	810.6
20°	782.1	785.2	789.6	793.5	795.7	798.8	801.0	802.3	803.2	802.3	802.7
22.5°	766.8	771.2	776.9	779.9	784.3	786.9	787.4	790.5	792.6	790.5	791.3
25°	748.8	753.2	757.6	764.1	768.1	771.2	774.2	774.7	776.9	776.4	776.0
27.5°	719.0	724.7	732.1	737.4	742.7	747.5	751.0	751.9	754.1	753.2	753.6
30°	678.2	684.4	691.4	699.7	707.2	712.0	716.4	719.4	721.6	720.3	719.9
32.5°	620.4	626.5	633.9	642.3	651.0	658.0	663.3	667.3	669.9	669.0	666.8
35°	554.2	555.9	560.7	567.3	574.8	582.2	587.0	591.4	594.5	595.4	595.4
37.5°	486.2	480.5	477.0	477.0	481.4	484.4	488.8	491.5	496.3	498.0	499.3
40°	420.4	407.3	395.0	385.8	379.7	379.2	379.2	380.5	384.9	390.6	395.9
42.5°	361.7	340.6	321.8	304.7	292.4	285.4	282.3	282.8	286.3	291.5	300.3
45°	314.8	288.5	264.8	244.2	227.5	216.6	211.3	210.9	213.5	219.6	229.3
47.5°	278.4	250.3	223.6	199.9	181.9	170.1	164.0	162.2	164.0	169.7	181.1
50°	248.1	219.2	191.6	167.0	147.7	135.5	129.8	127.6	129.8	134.6	146.0
52.5°	220.1	190.3	164.4	140.7	120.1	109.6	103.5	102.1	103.5	109.2	118.4
55°	187.6	162.2	136.8	113.1	95.1	84.6	79.8	78.5	79.8	85.1	94.7
57.5°	155.6	133.7	111.4	89.9	74.5	65.3	60.9	59.2	62.2	65.8	77.2
60°	125.8	108.3	89.4	70.6	57.9	49.5	46.0	45.6	46.5	50.9	58.7
62.5°	98.6	84.2	69.3	53.9	43.4	39.9	35.5	35.1	35.9	38.6	44.7
65°	71.0	61.8	50.4	39.5	31.1	26.3	24.6	25.0	25.9	27.6	33.3
67.5°	49.5	43.0	35.1	27.6	21.5	19.3	17.5	17.1	17.5	20.6	23.7
70°	33.3	29.4	23.7	21.0	14.9	11.8	12.3	11.0	12.7	12.7	15.3
72.5°	21.9	19.3	15.8	12.3	10.5	8.3	8.3	7.9	8.8	9.2	11.4
75°	11.4	8.8	8.8	6.1	4.4	2.2	3.9	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	3.9	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	1.7	1.7	1.7	1.7	1.7	2.6
85°	2.6	1.7	1.7	1.3	1.7	3.1	1.3	1.7	1.7	1.7	1.3
87.5°	0.9	1.3	1.3	1.3	0.9	0.4	0.9	1.3	1.3	2.2	1.7
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8
2.5°	818.1	818.5	818.5	818.1	818.1	817.2	818.9	817.6	818.1	819.8	818.5
5°	818.9	819.4	819.4	818.9	818.9	818.9	819.4	819.4	818.9	818.5	819.4
7.5°	820.7	820.3	820.3	819.4	819.4	818.5	819.4	818.1	818.9	818.1	819.4
10°	818.5	818.9	818.5	818.1	818.1	817.6	817.6	816.3	816.8	815.4	816.3
12.5°	817.2	816.8	816.8	815.9	815.0	814.1	813.7	812.4	812.4	809.3	810.6
15°	813.7	814.1	812.8	811.1	810.2	808.0	807.1	805.4	803.6	801.4	801.9
17.5°	810.6	809.3	807.6	805.8	802.3	800.5	798.8	796.1	795.3	792.6	791.8
20°	801.4	800.5	798.3	795.3	793.1	789.1	787.4	784.8	782.6	779.9	778.6
22.5°	789.6	788.7	786.1	783.0	779.5	777.7	776.0	771.2	769.0	766.3	765.9
25°	774.7	773.4	770.7	767.2	765.5	760.6	758.9	755.4	754.5	751.9	751.4
27.5°	751.9	750.1	747.1	742.7	739.6	736.5	734.8	732.1	731.3	728.6	728.2
30°	717.7	715.5	709.3	707.6	702.3	699.3	699.3	695.8	696.2	694.4	694.4
32.5°	663.8	660.2	655.4	651.9	648.4	646.7	646.7	645.3	646.2	646.2	647.1
35°	592.3	587.5	584.8	582.6	582.6	584.4	589.7	591.0	593.6	595.8	597.6
37.5°	500.7	500.2	503.3	505.9	512.5	520.0	529.2	537.1	544.5	549.8	555.0
40°	401.6	412.5	421.3	433.6	443.7	458.1	474.8	488.4	501.1	510.3	520.0
42.5°	313.5	327.5	345.9	363.9	381.9	401.6	423.5	442.4	459.0	471.7	481.8
45°	244.2	263.5	285.8	308.6	331.9	356.4	379.2	398.5	416.1	429.2	439.3
47.5°	196.8	217.9	243.3	268.3	294.6	320.5	345.9	362.6	377.0	387.6	396.8
50°	162.6	185.0	211.8	240.2	266.5	292.4	314.3	330.6	342.4	351.6	357.3
52.5°	135.9	159.6	188.1	216.6	242.9	266.5	286.3	298.6	308.2	314.8	320.0
55°	112.2	135.0	161.8	188.5	214.4	236.7	253.0	262.2	269.6	273.6	276.6
57.5°	91.6	112.7	137.2	161.8	184.1	202.5	215.3	224.5	228.0	231.0	230.6
60°	71.9	91.6	114.0	135.0	154.3	169.2	178.4	183.7	186.3	187.6	186.8
62.5°	56.6	74.5	91.6	110.0	124.1	136.8	145.6	145.6	146.9	147.3	148.6
65°	42.1	55.7	70.6	84.2	95.6	103.9	108.7	110.0	111.8	111.4	110.5
67.5°	31.1	41.2	52.2	62.2	70.1	75.4	78.9	82.0	81.5	80.7	80.2
70°	21.5	28.1	37.7	43.8	49.5	54.8	55.7	56.1	56.6	57.0	56.1
72.5°	14.9	19.7	25.0	30.3	33.8	35.9	38.1	38.6	38.6	38.6	38.1
75°	7.5	10.1	14.9	17.1	20.2	21.0	22.8	22.8	24.1	22.4	21.9
77.5°	6.6	7.9	10.5	12.3	13.6	14.9	15.3	16.7	16.2	15.3	15.8
80°	3.9	4.8	6.6	7.5	9.2	9.6	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°	1.7	3.1	2.6	5.3	3.5	3.5	4.4	5.3	4.4	4.4	5.3
87.5°	1.7	1.7	1.3	1.7	1.7	1.7	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°	816.8	816.8	816.8	816.8
2.5°	818.1	818.9	817.6	817.2
5°	819.4	819.4	818.5	818.5
7.5°	819.4	819.4	818.1	817.2
10°	815.9	815.9	814.6	813.7
12.5°	809.3	809.3	808.9	807.6
15°	801.0	801.0	799.2	797.9
17.5°	789.6	790.5	788.3	788.3
20°	777.3	776.9	775.1	774.2
22.5°	764.6	763.7	763.3	760.6
25°	751.0	750.1	748.8	747.5
27.5°	727.8	727.3	726.0	724.3
30°	692.2	691.8	690.1	690.1
32.5°	646.2	645.8	644.0	644.5
35°	598.4	600.2	599.3	597.6
37.5°	558.5	559.9	560.7	559.9
40°	525.2	529.2	529.6	530.5
42.5°	489.7	495.0	496.7	497.6
45°	447.2	452.0	455.9	455.1
47.5°	403.8	407.3	410.8	408.2
50°	362.1	364.3	365.6	365.6
52.5°	322.7	322.7	322.2	322.7
55°	277.5	277.5	275.8	276.6
57.5°	230.2	231.0	229.7	227.5
60°	186.3	184.1	183.3	181.9
62.5°	145.1	145.1	142.0	146.0
65°	108.7	107.4	106.1	105.7
67.5°	78.9	78.5	77.2	76.7
70°	55.7	53.9	53.5	52.6
72.5°	37.3	37.3	36.4	36.4
75°	22.8	20.6	20.2	20.6
77.5°	15.8	15.3	15.3	14.9
80°	10.5	10.1	11.0	9.6
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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