

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: P244177

Luminaire Tested: **LSR8B15D010 EC8B15840 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B15D010 EC8B15840 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1612.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

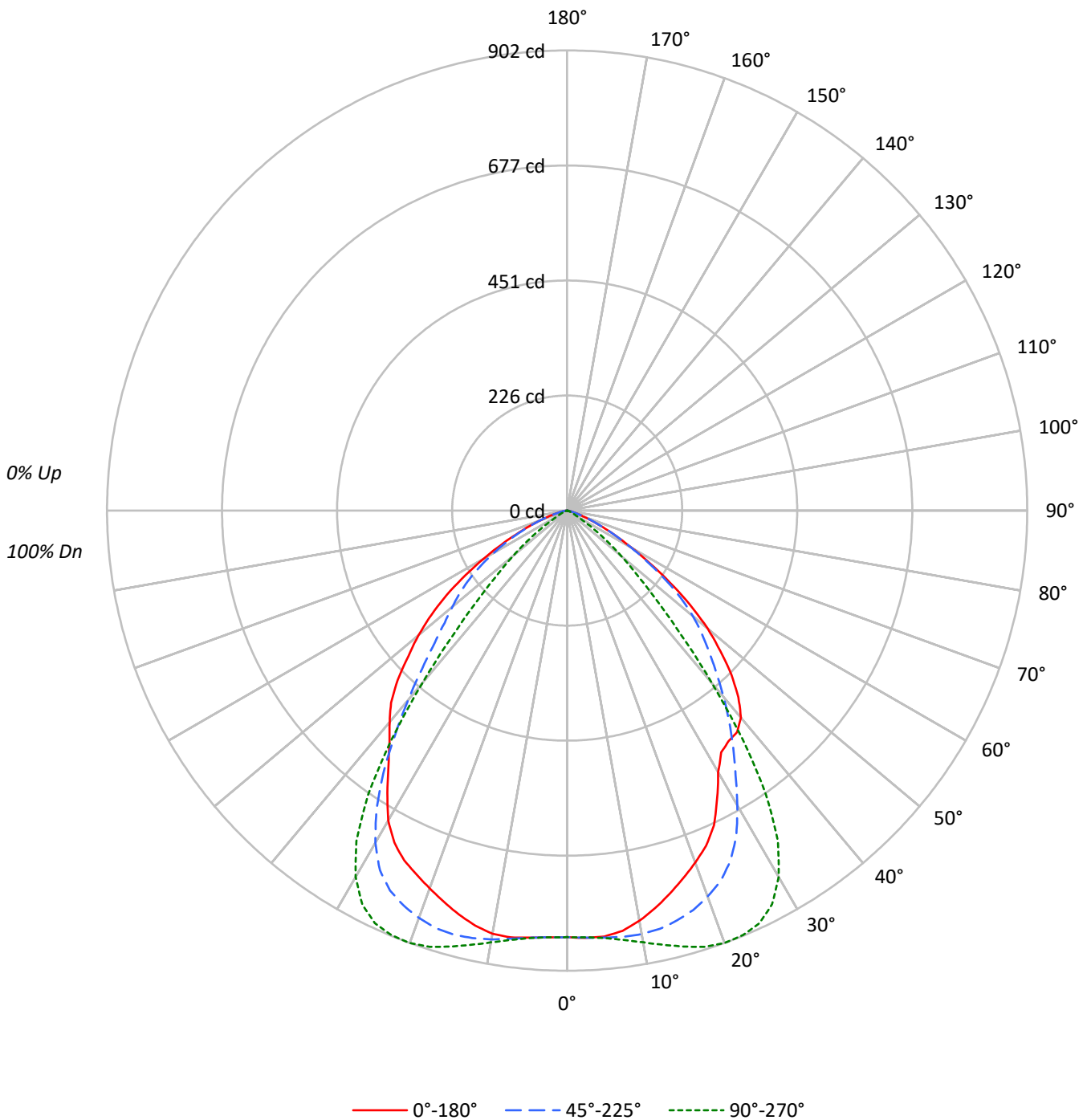
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	25785	25785	25785
5°	25940	26035	26008
10°	25560	26906	26380
15°	24811	28240	26171
20°	24093	29596	25855
25°	23167	30356	25736
30°	21083	29525	24971
35°	20768	25583	22974
40°	21335	17744	21781
45°	19860	10723	20479
50°	17227	6620	18249
55°	13220	3462	15489
60°	9004	1394	11687
65°	5604	715	8063
70°	3038	442	4923
75°	1585	214	2907
80°	710	231	1580
85°	460	142	1415



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	5.0
10°-20°	238.2	14.8
20°-30°	363.5	22.5
30°-40°	379.3	23.5
40°-50°	284.9	17.7
50°-60°	175.3	10.9
60°-70°	71.3	4.4
70°-80°	16.8	1.0
80°-90°	2.3	0.1
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°	682.1	42.3
0°-40°	1061.4	65.8
0°-60°	1521.5	94.4
0°-90°	1612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1612.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	836	836	836	836	836	
5°	838	840	841	840	840	79
15°	777	832	885	860	820	219
25°	681	757	892	822	756	310
35°	552	567	680	628	610	348
45°	455	394	246	367	470	347
55°	246	234	64	234	288	221
65°	77	78	10	104	110	80
75°	13	13	2	24	24	16
85°	1	1	0	3	4	2
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°	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2
2.5°	838.5	837.1	838.5	838.5	838.9	838.0	838.5	838.9	838.0	838.0	838.0
5°	838.0	837.1	838.0	837.6	838.5	838.5	839.4	839.4	840.2	840.2	841.6
7.5°	830.9	829.2	830.9	832.3	833.1	834.9	837.1	838.9	840.7	842.5	844.7
10°	816.3	816.3	817.6	820.3	822.9	826.0	830.0	834.5	838.9	842.9	846.9
12.5°	798.1	796.7	799.4	803.0	807.0	811.8	818.1	824.7	831.8	839.8	846.0
15°	777.2	775.9	779.0	782.5	787.4	794.5	802.1	811.0	821.2	831.8	842.0
17.5°	755.9	755.5	758.6	763.5	767.5	775.0	784.8	795.4	807.0	821.2	834.5
20°	734.2	733.7	736.8	740.8	746.1	753.3	763.0	775.4	789.2	805.2	820.7
22.5°	711.5	712.0	714.6	719.1	723.5	731.1	741.3	753.7	768.8	786.1	803.4
25°	680.9	678.7	682.2	686.7	694.2	700.4	710.2	723.5	739.0	757.2	777.7
27.5°	636.5	636.1	639.2	643.2	649.8	657.4	668.0	681.8	698.2	718.2	738.2
30°	592.1	593.0	594.3	598.3	602.8	610.3	621.0	632.5	648.1	667.1	688.4
32.5°	561.9	561.9	563.7	566.4	569.5	573.5	581.0	589.5	601.4	614.8	630.3
35°	551.7	550.0	551.7	552.2	552.6	553.5	554.8	557.5	561.5	567.3	573.0
37.5°	547.3	546.0	546.0	544.2	542.0	539.3	535.8	531.8	527.3	521.5	517.1
40°	530.0	529.1	528.2	526.4	521.5	516.2	510.4	501.1	490.9	476.7	462.5
42.5°	496.7	495.8	495.4	491.8	487.4	481.2	474.5	464.7	451.9	433.7	413.2
45°	455.4	453.6	452.3	449.2	446.1	440.8	434.6	425.7	412.8	394.2	369.7
47.5°	407.5	406.6	406.1	404.8	401.7	398.6	394.6	387.5	376.0	358.2	332.9
50°	359.1	357.3	358.2	357.8	356.4	354.2	351.5	346.7	337.8	321.8	298.7
52.5°	303.6	303.6	303.2	304.5	304.9	304.5	304.9	299.6	292.1	280.1	260.6
55°	245.9	245.9	247.2	249.0	250.8	251.2	250.8	248.6	243.2	233.5	216.2
57.5°	191.7	190.9	193.5	196.2	198.0	199.7	198.4	196.6	193.5	185.5	172.2
60°	146.0	146.0	147.8	149.6	151.4	153.1	152.7	152.2	149.6	144.3	133.6
62.5°	107.4	107.9	107.9	109.2	111.0	112.7	114.1	112.7	111.4	107.9	100.8
65°	76.8	76.3	76.8	78.1	79.5	81.2	82.1	81.7	80.3	77.7	72.4
67.5°	51.5	51.0	52.8	53.3	54.2	55.9	55.5	55.9	55.5	53.3	48.8
70°	33.7	32.8	33.7	33.3	34.6	35.1	35.9	36.4	35.9	34.6	33.3
72.5°	20.9	20.4	20.9	21.3	21.8	22.2	23.1	23.1	22.6	21.8	20.0
75°	13.3	12.0	12.4	11.5	12.4	12.4	13.3	13.8	13.3	13.3	12.4
77.5°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.4	8.9	8.0	7.5
80°	4.0	4.0	4.4	4.4	4.4	4.9	4.4	4.4	4.4	4.9	3.6
82.5°	3.1	2.7	2.7	2.7	3.1	2.7	2.7	2.7	2.7	2.7	2.7
85°	1.3	1.8	1.3	0.9	1.3	1.3	1.8	1.3	1.3	1.3	1.8
87.5°	0.4	0.4	0.0	0.0	0.0	0.4	0.0	0.4	0.4	0.9	0.0
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°	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2
2.5°	838.5	837.6	837.6	837.1	838.0	837.1	837.6	837.1	837.1	838.0	837.1
5°	841.6	842.0	841.1	840.7	842.0	842.0	842.0	841.1	841.1	841.6	841.1
7.5°	846.0	846.9	847.3	847.8	848.7	849.1	849.1	848.7	848.2	849.6	847.8
10°	850.9	852.2	854.9	856.2	858.4	858.4	859.3	859.3	858.4	859.3	858.9
12.5°	849.1	857.1	861.6	864.7	867.8	870.4	871.3	871.8	871.3	873.1	871.3
15°	852.2	858.9	866.0	871.3	877.1	880.2	881.1	884.6	885.5	886.0	883.3
17.5°	847.3	859.3	866.9	874.9	883.3	889.1	894.4	896.6	897.1	897.9	894.4
20°	836.2	849.6	861.1	872.7	882.4	891.3	895.7	901.9	900.2	903.7	898.8
22.5°	821.2	836.2	850.9	866.0	876.2	886.9	896.2	900.6	902.8	902.8	897.5
25°	797.2	815.0	830.9	846.5	862.0	874.9	885.5	892.2	893.5	893.1	886.9
27.5°	759.9	779.0	797.6	815.4	834.5	849.6	862.0	870.0	872.2	872.2	865.6
30°	708.4	728.8	747.0	768.3	787.9	804.7	822.1	829.2	833.1	833.1	825.6
32.5°	647.2	664.5	681.3	702.2	723.5	742.6	759.0	768.8	773.7	773.2	766.6
35°	580.6	589.0	601.9	617.4	636.5	654.3	670.2	679.6	688.0	687.6	681.3
37.5°	514.0	511.8	513.1	518.9	530.9	543.3	555.7	564.6	571.7	574.8	573.5
40°	448.8	437.2	426.1	422.1	423.0	427.4	434.1	440.8	448.8	452.8	454.5
42.5°	390.2	370.6	351.1	336.5	328.0	325.4	328.5	330.7	335.6	341.3	347.1
45°	343.1	316.9	291.2	268.5	254.3	245.9	244.1	245.9	248.6	254.3	261.9
47.5°	304.5	273.9	245.0	219.7	198.9	187.8	184.7	183.8	186.4	191.7	202.0
50°	270.3	239.7	207.7	178.4	156.7	144.3	139.8	138.0	141.1	145.1	154.5
52.5°	233.0	202.8	170.0	141.6	119.0	106.1	101.2	98.5	100.3	105.6	115.0
55°	192.6	164.7	134.9	105.6	83.9	71.9	66.1	64.4	66.1	71.9	81.2
57.5°	152.2	128.7	103.9	76.3	56.8	44.8	39.1	37.3	42.2	44.4	54.2
60°	119.0	99.9	78.6	55.9	39.1	29.7	24.0	22.6	24.9	28.8	36.8
62.5°	89.2	77.2	60.4	39.9	28.8	19.1	16.0	14.7	16.0	19.1	25.3
65°	64.8	55.5	42.2	29.3	19.5	14.2	10.7	9.8	11.1	13.3	18.6
67.5°	44.4	37.3	29.3	20.4	13.3	8.9	7.5	7.5	8.0	9.8	13.8
70°	28.8	24.4	18.6	13.3	8.9	6.7	5.8	4.9	5.8	7.1	9.3
72.5°	18.2	15.5	12.0	9.3	6.7	4.9	4.0	3.6	4.4	5.3	7.1
75°	11.1	8.4	6.2	4.9	3.6	3.6	3.6	1.8	2.2	3.6	4.4
77.5°	6.7	5.8	4.9	4.0	3.1	1.8	1.8	1.8	2.2	2.7	4.0
80°	3.6	3.1	2.2	2.2	1.8	1.3	1.8	1.3	0.9	2.2	2.7
82.5°	2.2	1.8	1.8	1.8	2.2	0.9	1.3	0.9	1.3	1.8	1.3
85°	1.3	1.3	1.3	0.9	2.2	0.9	0.9	0.4	0.4	0.9	0.9
87.5°	0.0	0.4	0.4	0.0	0.4	0.0	0.4	0.4	0.4	0.4	0.4
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°	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2
2.5°	837.6	837.1	837.6	837.1	837.1	837.1	837.6	837.6	837.1	837.1	838.0
5°	841.1	841.1	841.1	840.7	840.2	840.2	841.1	841.1	839.8	841.1	841.1
7.5°	848.7	847.3	848.7	846.9	846.0	846.5	846.9	846.0	845.1	845.6	845.6
10°	858.4	857.1	857.1	855.8	854.5	853.6	852.7	850.5	848.2	847.8	846.0
12.5°	870.0	867.8	866.4	863.8	861.6	858.4	855.8	852.2	847.8	844.7	841.6
15°	881.5	878.0	874.9	870.4	865.6	860.2	854.5	848.7	841.6	835.4	830.0
17.5°	890.8	886.0	880.2	873.1	866.0	858.0	849.6	841.1	830.9	822.9	816.7
20°	894.0	886.9	879.3	870.0	860.7	849.6	838.9	827.8	816.3	807.8	800.7
22.5°	890.0	881.5	872.2	862.4	850.0	838.0	825.6	812.7	802.5	791.0	784.3
25°	878.9	868.7	858.4	846.9	834.9	821.6	808.3	795.0	782.5	776.3	767.9
27.5°	856.2	845.1	834.0	822.1	808.3	795.0	781.2	768.3	757.7	749.3	744.4
30°	816.3	803.4	790.5	777.7	765.7	751.9	739.0	728.4	717.7	711.1	706.2
32.5°	755.0	743.5	730.6	718.2	707.1	695.5	684.9	675.6	668.0	663.6	660.0
35°	672.5	660.9	651.2	642.3	633.0	628.1	621.4	616.1	613.0	611.2	610.8
37.5°	568.6	561.9	558.8	557.1	555.3	554.0	554.8	557.1	558.8	561.9	565.5
40°	457.6	463.4	465.2	471.4	477.2	484.7	493.1	502.9	510.9	521.1	528.2
42.5°	356.4	367.1	379.5	392.8	407.0	420.8	437.7	453.2	467.4	480.3	491.4
45°	273.9	290.3	308.9	328.0	347.1	367.1	387.5	406.6	423.5	437.2	448.8
47.5°	213.5	231.7	255.7	279.2	302.3	325.8	348.4	368.4	382.6	395.9	406.1
50°	169.1	190.0	216.2	243.2	268.5	293.4	317.4	336.0	350.2	360.9	368.4
52.5°	130.9	155.8	182.4	210.8	237.9	265.0	287.2	304.5	316.0	325.4	331.1
55°	97.6	122.1	150.5	179.8	207.3	233.5	254.3	269.4	279.6	285.0	288.1
57.5°	70.6	92.8	121.2	150.5	175.3	200.2	217.1	230.8	236.6	239.7	241.0
60°	51.5	71.9	97.2	122.5	146.0	166.0	180.7	190.0	194.4	196.2	195.7
62.5°	37.7	55.5	77.2	98.5	117.6	134.0	145.6	151.8	154.0	154.9	153.6
65°	28.8	42.6	61.3	77.7	92.3	104.3	112.7	116.7	118.1	117.6	116.7
67.5°	21.3	32.0	45.7	58.1	68.8	78.1	82.6	86.1	87.0	85.7	84.3
70°	15.1	23.5	33.3	41.7	49.7	55.0	59.9	60.4	60.4	59.9	59.0
72.5°	10.7	16.4	22.6	28.4	33.3	37.3	39.1	40.4	39.9	39.5	38.6
75°	7.1	10.2	16.4	17.8	22.2	23.5	25.3	25.3	25.7	24.4	24.4
77.5°	4.4	7.1	9.8	11.5	13.3	15.1	16.0	16.0	16.4	16.0	16.0
80°	2.7	4.4	5.3	8.0	8.0	9.3	9.8	10.2	9.3	10.7	9.3
82.5°	1.8	2.7	4.0	4.0	4.9	5.8	5.8	6.2	6.2	5.8	5.8
85°	1.3	1.8	2.2	2.7	2.7	3.1	2.7	2.7	3.1	3.6	3.1
87.5°	0.4	0.9	0.4	0.9	0.9	1.8	1.3	1.3	1.3	1.8	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):

	165°	170°	175°	180°
0°	836.2	836.2	836.2	836.2
2.5°	837.1	837.6	837.1	837.1
5°	841.1	840.7	841.1	840.2
7.5°	844.2	844.2	843.8	843.8
10°	844.2	842.5	842.5	842.5
12.5°	837.6	835.4	834.0	833.1
15°	826.0	822.1	820.3	819.8
17.5°	811.0	807.4	805.2	803.9
20°	793.6	790.1	787.4	787.9
22.5°	778.5	774.6	772.8	771.9
25°	763.5	758.6	757.2	756.4
27.5°	739.0	736.4	735.0	733.7
30°	701.8	700.4	698.2	701.3
32.5°	658.7	656.5	654.7	656.0
35°	611.2	609.9	611.2	610.3
37.5°	567.7	569.0	570.8	571.7
40°	533.5	538.4	540.2	541.1
42.5°	499.4	505.1	508.7	510.9
45°	457.2	463.0	466.9	469.6
47.5°	413.7	418.6	422.6	422.1
50°	374.2	376.8	378.6	380.4
52.5°	334.2	334.2	334.7	334.7
55°	289.0	288.1	287.6	288.1
57.5°	239.2	238.4	237.9	236.6
60°	194.0	191.3	189.5	189.5
62.5°	151.8	148.7	147.4	146.9
65°	114.1	113.6	111.0	110.5
67.5°	82.6	80.8	79.0	79.5
70°	58.1	55.5	55.5	54.6
72.5°	37.7	36.4	35.9	35.9
75°	23.5	23.5	22.6	24.4
77.5°	15.5	15.5	15.1	15.5
80°	9.3	9.3	9.3	8.9
82.5°	5.8	6.2	5.8	5.8
85°	3.1	3.6	2.7	4.0
87.5°	1.8	2.2	1.8	2.2
90°	0.0	0.0	0.0	0.0

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