

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: P245023

Luminaire Tested: **LSR8B15D010 EC8B15827 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245023
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 EC8B15827 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1462.0 lumens
Efficiency: N/A
Efficacy: 101.5 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

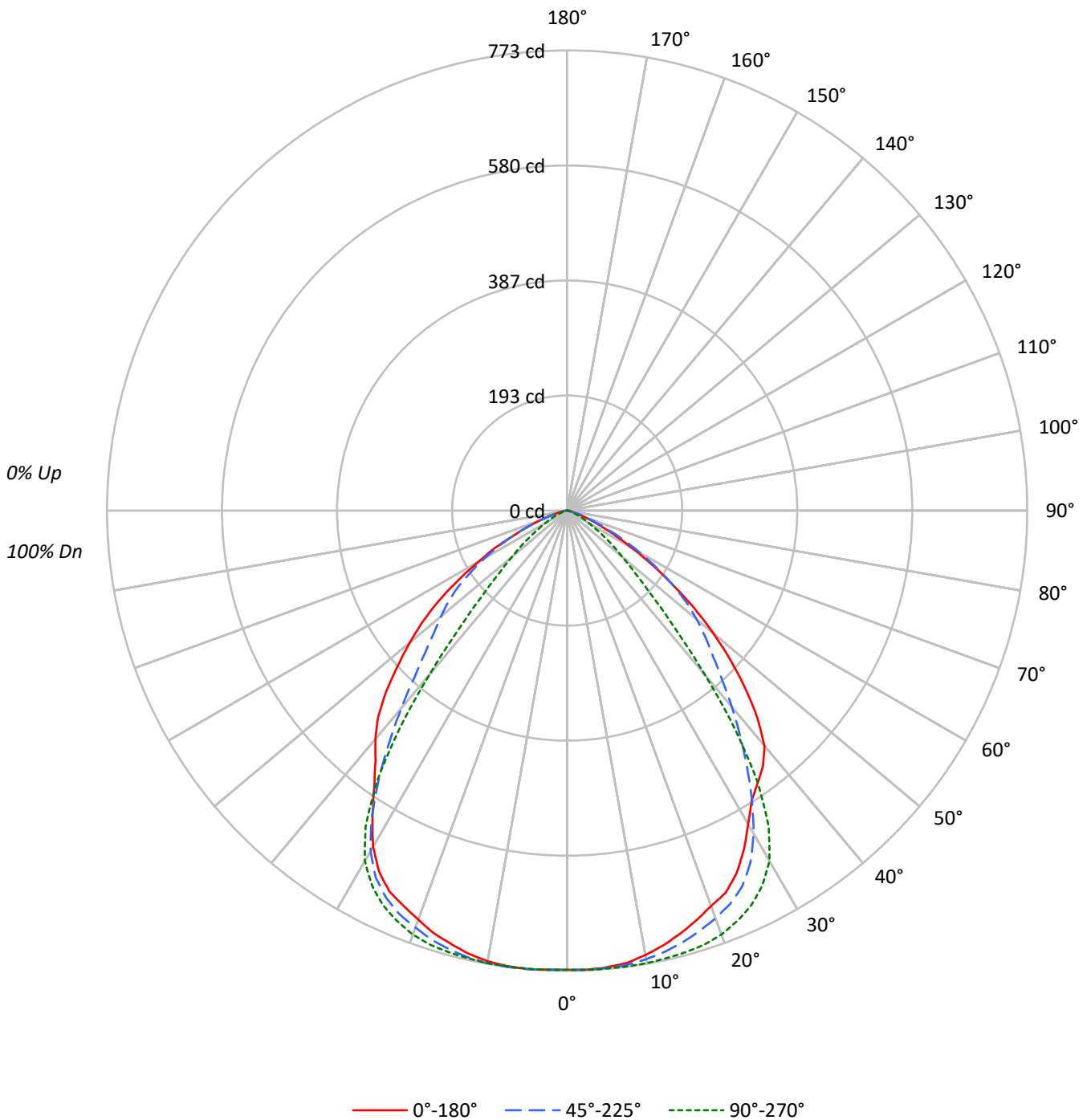
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	23787	23787	23787
5°	23838	23903	23928
10°	23738	24167	24063
15°	23477	24521	24058
20°	23194	24864	23995
25°	22891	24892	24021
30°	21656	24195	23205
35°	21009	21028	21246
40°	20751	14467	20167
45°	18490	8687	18743
50°	15375	5781	16565
55°	11532	3984	14048
60°	7814	2658	10595
65°	4714	1722	7282
70°	2615	938	4481
75°	1180	393	2323
80°	1030	444	1616
85°	1168	601	1628



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	5.0
10°-20°	213.8	14.6
20°-30°	324.5	22.2
30°-40°	340.8	23.3
40°-50°	255.5	17.5
50°-60°	164.0	11.2
60°-70°	70.1	4.8
70°-80°	16.6	1.1
80°-90°	3.1	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°	611.9	41.9
0°-40°	952.7	65.2
0°-60°	1372.2	93.9
0°-90°	1462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1462.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	771	771	771	771	771	
5°	770	771	772	773	773	73
15°	735	751	768	763	754	207
25°	673	696	732	718	706	307
35°	558	527	559	552	564	350
45°	424	347	199	337	430	325
55°	214	214	74	224	261	195
65°	65	76	24	98	100	69
75°	10	12	3	20	20	14
85°	3	2	2	3	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°	771.4	771.4	771.4	771.4	771.4	771.4	771.4	771.4	771.4	771.4	771.4
2.5°	771.8	772.6	772.2	772.2	771.8	772.2	772.2	773.0	773.0	772.2	771.8
5°	770.1	771.0	771.0	770.1	770.1	772.2	771.0	771.8	771.8	771.4	771.4
7.5°	766.4	766.4	768.1	766.8	766.8	768.1	767.7	768.5	769.3	769.7	769.7
10°	758.1	759.0	759.4	759.4	759.8	761.0	761.9	763.5	764.3	765.2	765.6
12.5°	747.8	749.0	749.4	749.0	750.3	751.9	754.0	756.1	757.3	759.0	760.2
15°	735.4	735.4	736.2	737.4	738.3	740.7	742.8	745.3	748.6	750.7	752.7
17.5°	721.7	722.5	723.8	723.8	725.4	729.6	730.8	734.5	738.3	740.3	744.5
20°	706.8	707.6	708.9	709.7	711.8	715.1	717.6	720.9	725.0	728.7	732.9
22.5°	695.2	693.5	694.4	695.2	697.3	700.2	703.1	707.2	711.3	715.1	719.2
25°	672.8	673.2	674.5	675.3	677.8	680.3	683.6	688.6	692.3	696.4	701.0
27.5°	642.6	643.0	645.1	645.1	647.2	651.3	653.4	657.5	662.5	666.6	672.0
30°	608.2	609.1	609.1	610.7	612.0	614.0	616.1	620.3	622.7	626.5	633.9
32.5°	576.8	577.6	577.2	576.8	575.5	575.1	574.7	575.5	576.4	577.6	580.5
35°	558.1	556.1	554.4	551.5	548.2	544.1	540.3	535.4	530.8	527.1	523.0
37.5°	540.3	539.9	537.4	533.3	526.7	519.2	510.5	499.8	489.0	477.4	466.2
40°	515.5	514.3	512.2	506.4	498.9	489.8	478.2	465.0	447.6	429.8	411.6
42.5°	473.3	473.7	471.2	466.6	459.6	450.9	438.9	424.4	405.8	384.7	361.1
45°	424.0	424.0	423.2	419.4	414.5	407.4	398.3	386.3	368.1	346.6	321.3
47.5°	372.6	373.1	371.8	371.0	368.9	364.4	357.7	348.6	335.8	315.1	289.8
50°	320.5	320.5	322.5	322.1	322.1	320.5	317.6	312.2	301.0	284.5	260.9
52.5°	268.3	269.1	270.4	272.0	274.1	277.4	274.1	271.6	264.6	251.7	231.5
55°	214.5	215.3	217.4	220.3	222.8	226.1	226.9	226.9	223.2	214.5	199.2
57.5°	168.5	167.3	168.9	171.4	174.7	178.0	180.5	183.4	183.0	177.2	164.8
60°	126.7	127.1	128.4	130.8	133.3	136.2	139.5	142.0	143.3	140.4	132.5
62.5°	92.3	92.3	94.0	96.5	97.7	101.9	103.9	105.2	106.4	106.0	101.0
65°	64.6	65.4	66.2	67.5	68.7	71.2	72.5	74.9	75.8	76.2	72.5
67.5°	45.5	44.3	45.1	46.0	47.2	48.9	51.3	51.3	52.6	52.6	50.1
70°	29.0	29.0	29.4	30.6	31.5	31.9	32.7	33.5	34.8	34.4	34.4
72.5°	19.5	19.0	19.5	19.9	20.3	21.5	21.5	21.9	22.8	23.2	21.5
75°	9.9	10.4	11.2	10.8	12.0	11.2	11.6	12.8	12.4	11.6	11.6
77.5°	8.3	8.3	8.3	7.9	8.7	8.7	8.3	9.1	8.7	8.7	8.3
80°	5.8	6.2	5.8	5.4	5.8	5.4	5.4	5.4	5.4	5.4	5.0
82.5°	4.6	3.7	4.1	3.7	4.1	4.1	3.7	3.3	3.3	3.7	3.3
85°	3.3	2.5	2.9	2.9	2.5	2.5	2.5	2.5	2.5	2.1	2.1
87.5°	2.1	1.2	1.2	1.2	1.7	1.7	1.7	1.2	1.7	1.7	0.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	771.4	771.4	771.4	771.4	771.4	771.4	771.4	771.4	771.4	771.4	771.4
2.5°	772.6	772.2	773.0	772.6	772.6	772.2	772.6	772.2	773.0	771.4	771.8
5°	772.6	771.8	772.2	772.6	773.0	772.2	772.2	772.2	773.0	772.2	772.6
7.5°	771.0	770.5	771.8	772.6	772.2	771.8	772.6	772.2	773.0	772.6	773.4
10°	767.7	768.1	768.9	770.1	770.5	771.0	771.8	771.8	773.0	771.4	772.2
12.5°	762.7	764.3	766.4	767.2	768.9	768.9	769.7	770.1	771.0	770.5	771.8
15°	756.5	758.5	761.0	763.1	765.2	766.4	767.7	768.1	769.3	768.1	768.5
17.5°	749.0	751.5	755.2	757.7	761.0	762.3	763.9	764.8	766.0	765.2	765.6
20°	738.7	741.6	745.7	749.4	751.5	754.4	756.5	757.7	758.5	757.7	758.1
22.5°	724.2	728.3	733.7	736.6	740.7	743.2	743.6	746.5	748.6	746.5	747.4
25°	707.2	711.3	715.5	721.7	725.4	728.3	731.2	731.6	733.7	733.3	732.9
27.5°	679.0	684.4	691.5	696.4	701.4	706.0	709.3	710.1	712.2	711.3	711.8
30°	640.5	646.3	653.0	660.8	667.9	672.4	676.6	679.5	681.5	680.3	679.9
32.5°	585.9	591.7	598.7	606.6	614.9	621.5	626.5	630.2	632.7	631.8	629.8
35°	523.4	525.0	529.6	535.8	542.8	549.9	554.4	558.6	561.5	562.3	562.3
37.5°	459.2	453.8	450.5	450.5	454.6	457.5	461.7	464.2	468.7	470.4	471.6
40°	397.1	384.7	373.1	364.4	358.6	358.2	358.2	359.4	363.5	368.9	373.9
42.5°	341.6	321.7	303.9	287.8	276.2	269.6	266.7	267.1	270.4	275.3	283.6
45°	297.3	272.4	250.1	230.6	214.9	204.5	199.6	199.2	201.6	207.4	216.6
47.5°	262.9	236.4	211.2	188.8	171.8	160.7	154.9	153.2	154.9	160.2	171.0
50°	234.4	207.0	180.9	157.8	139.5	127.9	122.6	120.5	122.6	127.1	137.9
52.5°	207.9	179.7	155.3	132.9	113.4	103.5	97.7	96.5	97.7	103.1	111.8
55°	177.2	153.2	129.2	106.8	89.9	79.9	75.4	74.1	75.4	80.3	89.4
57.5°	147.0	126.3	105.2	84.9	70.4	61.7	57.6	55.9	58.8	62.1	72.9
60°	118.8	102.3	84.5	66.7	54.7	46.8	43.5	43.1	43.9	48.0	55.5
62.5°	93.2	79.5	65.4	50.9	41.0	37.7	33.5	33.1	33.9	36.4	42.2
65°	67.1	58.4	47.6	37.3	29.4	24.8	23.2	23.6	24.4	26.1	31.5
67.5°	46.8	40.6	33.1	26.1	20.3	18.2	16.6	16.1	16.6	19.5	22.4
70°	31.5	27.7	22.4	19.9	14.1	11.2	11.6	10.4	12.0	12.0	14.5
72.5°	20.7	18.2	14.9	11.6	9.9	7.9	7.9	7.5	8.3	8.7	10.8
75°	10.8	8.3	8.3	5.8	4.1	2.1	3.7	3.3	2.9	3.3	4.1
77.5°	7.5	6.2	5.8	4.6	4.1	3.3	3.3	3.3	3.3	3.7	4.1
80°	4.6	4.6	3.3	2.9	2.5	2.1	2.5	2.5	2.5	2.5	2.9
82.5°	2.9	2.5	2.5	2.1	2.1	1.7	1.7	1.7	1.7	1.7	2.5
85°	2.5	1.7	1.7	1.2	1.7	2.9	1.2	1.7	1.7	1.7	1.2
87.5°	0.8	1.2	1.2	1.2	0.8	0.4	0.8	1.2	1.2	2.1	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°	771.4	771.4	771.4	771.4	771.4	771.4	771.4	771.4	771.4	771.4	771.4
2.5°	772.6	773.0	773.0	772.6	772.6	771.8	773.4	772.2	772.6	774.3	773.0
5°	773.4	773.9	773.9	773.4	773.4	773.4	773.9	773.9	773.4	773.0	773.9
7.5°	775.1	774.7	774.7	773.9	773.9	773.0	773.9	772.6	773.4	772.6	773.9
10°	773.0	773.4	773.0	772.6	772.6	772.2	772.2	771.0	771.4	770.1	771.0
12.5°	771.8	771.4	771.4	770.5	769.7	768.9	768.5	767.2	767.2	764.3	765.6
15°	768.5	768.9	767.7	766.0	765.2	763.1	762.3	760.6	759.0	756.9	757.3
17.5°	765.6	764.3	762.7	761.0	757.7	756.1	754.4	751.9	751.1	748.6	747.8
20°	756.9	756.1	754.0	751.1	749.0	745.3	743.6	741.2	739.1	736.6	735.4
22.5°	745.7	744.9	742.4	739.5	736.2	734.5	732.9	728.3	726.2	723.8	723.3
25°	731.6	730.4	727.9	724.6	722.9	718.4	716.7	713.4	712.6	710.1	709.7
27.5°	710.1	708.4	705.5	701.4	698.5	695.6	694.0	691.5	690.6	688.2	687.7
30°	677.8	675.7	669.9	668.3	663.3	660.4	660.4	657.1	657.5	655.9	655.9
32.5°	626.9	623.6	619.0	615.7	612.4	610.7	610.7	609.5	610.3	610.3	611.1
35°	559.4	554.8	552.3	550.3	550.3	551.9	556.9	558.1	560.6	562.7	564.4
37.5°	472.8	472.4	475.3	477.8	484.0	491.1	499.8	507.2	514.3	519.2	524.2
40°	379.3	389.6	397.9	409.5	419.0	432.7	448.4	461.3	473.3	482.0	491.1
42.5°	296.0	309.3	326.7	343.7	360.6	379.3	400.0	417.8	433.5	445.5	455.0
45°	230.6	248.8	270.0	291.5	313.4	336.6	358.2	376.4	392.9	405.4	414.9
47.5°	185.9	205.8	229.8	253.4	278.2	302.7	326.7	342.4	356.1	366.0	374.7
50°	153.6	174.7	200.0	226.9	251.7	276.2	296.9	312.2	323.4	332.1	337.5
52.5°	128.4	150.7	177.6	204.5	229.4	251.7	270.4	282.0	291.1	297.3	302.3
55°	106.0	127.5	152.8	178.0	202.5	223.6	238.9	247.6	254.6	258.4	261.3
57.5°	86.5	106.4	129.6	152.8	173.9	191.3	203.3	212.0	215.3	218.2	217.8
60°	67.9	86.5	107.7	127.5	145.7	159.8	168.5	173.5	176.0	177.2	176.4
62.5°	53.4	70.4	86.5	103.9	117.2	129.2	137.5	137.5	138.7	139.1	140.4
65°	39.7	52.6	66.7	79.5	90.3	98.1	102.7	103.9	105.6	105.2	104.3
67.5°	29.4	38.9	49.3	58.8	66.2	71.2	74.5	77.4	77.0	76.2	75.8
70°	20.3	26.5	35.6	41.4	46.8	51.8	52.6	53.0	53.4	53.8	53.0
72.5°	14.1	18.6	23.6	28.6	31.9	33.9	36.0	36.4	36.4	36.4	36.0
75°	7.0	9.5	14.1	16.1	19.0	19.9	21.5	21.5	22.8	21.1	20.7
77.5°	6.2	7.5	9.9	11.6	12.8	14.1	14.5	15.7	15.3	14.5	14.9
80°	3.7	4.6	6.2	7.0	8.7	9.1	9.5	9.9	9.5	9.9	9.9
82.5°	2.9	3.3	4.1	4.1	5.4	5.4	5.8	5.8	6.2	6.2	6.2
85°	1.7	2.9	2.5	5.0	3.3	3.3	4.1	5.0	4.1	4.1	5.0
87.5°	1.7	1.7	1.2	1.7	1.7	1.7	2.1	2.5	2.5	2.9	2.5
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°	771.4	771.4	771.4	771.4
2.5°	772.6	773.4	772.2	771.8
5°	773.9	773.9	773.0	773.0
7.5°	773.9	773.9	772.6	771.8
10°	770.5	770.5	769.3	768.5
12.5°	764.3	764.3	763.9	762.7
15°	756.5	756.5	754.8	753.6
17.5°	745.7	746.5	744.5	744.5
20°	734.1	733.7	732.1	731.2
22.5°	722.1	721.3	720.9	718.4
25°	709.3	708.4	707.2	706.0
27.5°	687.3	686.9	685.7	684.0
30°	653.8	653.4	651.7	651.7
32.5°	610.3	609.9	608.2	608.7
35°	565.2	566.8	566.0	564.4
37.5°	527.5	528.7	529.6	528.7
40°	496.0	499.8	500.2	501.0
42.5°	462.5	467.5	469.1	469.9
45°	422.3	426.9	430.6	429.8
47.5°	381.3	384.7	388.0	385.5
50°	342.0	344.1	345.3	345.3
52.5°	304.7	304.7	304.3	304.7
55°	262.1	262.1	260.4	261.3
57.5°	217.4	218.2	217.0	214.9
60°	176.0	173.9	173.1	171.8
62.5°	137.1	137.1	134.2	137.9
65°	102.7	101.4	100.2	99.8
67.5°	74.5	74.1	72.9	72.5
70°	52.6	50.9	50.5	49.7
72.5°	35.2	35.2	34.4	34.4
75°	21.5	19.5	19.0	19.5
77.5°	14.9	14.5	14.5	14.1
80°	9.9	9.5	10.4	9.1
82.5°	6.2	6.6	6.2	6.6
85°	4.1	5.0	4.6	4.6
87.5°	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0

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