

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: P245455

Luminaire Tested: **LD8B15D010 ER8B15827 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245455
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: LD8B15D010 ER8B15827 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1481.0 lumens
Efficiency: N/A
Efficacy: 102.8 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

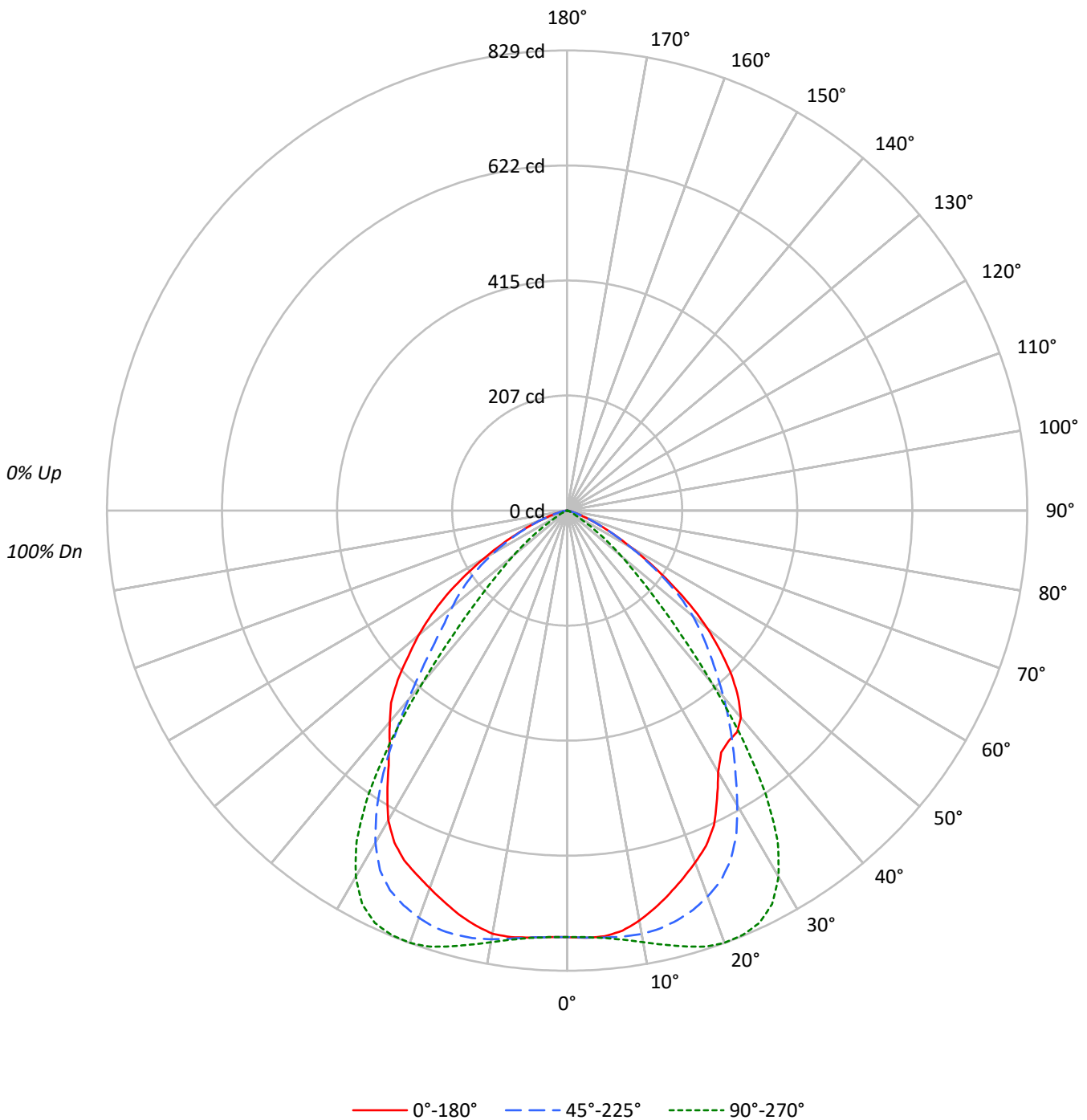
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	23692	23692	23692
5°	23832	23921	23897
10°	23481	24721	24235
15°	22797	25945	24045
20°	22134	27191	23752
25°	21285	27890	23643
30°	19370	27125	22941
35°	19082	23501	21107
40°	19600	16299	20010
45°	18246	9851	18817
50°	15826	6083	16766
55°	12145	3177	14231
60°	8276	1283	10737
65°	5144	657	7406
70°	2795	406	4526
75°	1454	191	2669
80°	657	213	1456
85°	425	142	1309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	5.0
10°-20°	218.9	14.8
20°-30°	333.9	22.5
30°-40°	348.4	23.5
40°-50°	261.7	17.7
50°-60°	161.0	10.9
60°-70°	65.5	4.4
70°-80°	15.4	1.0
80°-90°	2.1	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°	626.7	42.3
0°-40°	975.1	65.8
0°-60°	1397.9	94.4
0°-90°	1481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1481.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	768	768	768	768	768	
5°	770	772	773	772	772	73
15°	714	764	813	790	753	201
25°	626	696	820	755	695	284
35°	507	521	624	577	561	320
45°	418	362	226	337	432	319
55°	226	214	59	214	265	203
65°	70	71	9	96	102	74
75°	12	12	2	22	22	15
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°	768.3	768.3	768.3	768.3	768.3	768.3	768.3	768.3	768.3	768.3	768.3
2.5°	770.3	769.1	770.3	770.3	770.7	769.9	770.3	770.7	769.9	769.9	769.9
5°	769.9	769.1	769.9	769.5	770.3	770.3	771.2	771.2	772.0	772.0	773.2
7.5°	763.4	761.8	763.4	764.6	765.4	767.1	769.1	770.7	772.4	774.0	776.0
10°	749.9	749.9	751.2	753.6	756.1	758.9	762.6	766.7	770.7	774.4	778.1
12.5°	733.2	732.0	734.4	737.7	741.4	745.9	751.6	757.7	764.2	771.6	777.3
15°	714.1	712.8	715.7	718.9	723.4	730.0	736.9	745.1	754.4	764.2	773.6
17.5°	694.5	694.1	696.9	701.4	705.1	712.0	721.0	730.8	741.4	754.4	766.7
20°	674.5	674.1	677.0	680.6	685.5	692.0	701.0	712.4	725.1	739.8	754.0
22.5°	653.7	654.1	656.6	660.6	664.7	671.6	681.0	692.4	706.3	722.2	738.1
25°	625.6	623.5	626.8	630.9	637.8	643.5	652.5	664.7	679.0	695.7	714.5
27.5°	584.8	584.4	587.2	590.9	597.0	603.9	613.7	626.4	641.5	659.8	678.2
30°	544.0	544.8	546.0	549.7	553.8	560.7	570.5	581.1	595.4	612.9	632.5
32.5°	516.3	516.3	517.9	520.4	523.2	526.9	533.8	541.6	552.6	564.8	579.1
35°	506.9	505.3	506.9	507.3	507.7	508.5	509.7	512.2	515.9	521.2	526.5
37.5°	502.8	501.6	501.6	500.0	497.9	495.5	492.2	488.5	484.5	479.2	475.1
40°	486.9	486.1	485.3	483.7	479.2	474.3	469.0	460.4	451.0	438.0	424.9
42.5°	456.3	455.5	455.1	451.8	447.8	442.1	435.9	427.0	415.1	398.4	379.7
45°	418.4	416.8	415.6	412.7	409.8	404.9	399.2	391.1	379.3	362.1	339.7
47.5°	374.4	373.5	373.1	371.9	369.1	366.2	362.5	356.0	345.4	329.1	305.9
50°	329.9	328.3	329.1	328.7	327.5	325.4	323.0	318.5	310.3	295.7	274.4
52.5°	278.9	278.9	278.5	279.7	280.2	279.7	280.2	275.3	268.3	257.3	239.4
55°	225.9	225.9	227.1	228.8	230.4	230.8	230.4	228.4	223.5	214.5	198.6
57.5°	176.2	175.4	177.8	180.2	181.9	183.5	182.3	180.7	177.8	170.5	158.2
60°	134.2	134.2	135.8	137.4	139.1	140.7	140.3	139.9	137.4	132.5	122.8
62.5°	98.7	99.1	99.1	100.3	101.9	103.6	104.8	103.6	102.4	99.1	92.6
65°	70.5	70.1	70.5	71.8	73.0	74.6	75.4	75.0	73.8	71.4	66.5
67.5°	47.3	46.9	48.5	48.9	49.8	51.4	51.0	51.4	51.0	48.9	44.9
70°	31.0	30.2	31.0	30.6	31.8	32.2	33.0	33.4	33.0	31.8	30.6
72.5°	19.2	18.8	19.2	19.6	20.0	20.4	21.2	21.2	20.8	20.0	18.3
75°	12.2	11.0	11.4	10.6	11.4	11.4	12.2	12.6	12.2	12.2	11.4
77.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.8	8.2	7.3	6.9
80°	3.7	3.7	4.1	4.1	4.1	4.5	4.1	4.1	4.1	4.5	3.3
82.5°	2.9	2.4	2.4	2.4	2.9	2.4	2.4	2.4	2.4	2.4	2.4
85°	1.2	1.6	1.2	0.8	1.2	1.2	1.6	1.2	1.2	1.2	1.6
87.5°	0.4	0.4	0.0	0.0	0.0	0.4	0.0	0.4	0.4	0.8	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°	768.3	768.3	768.3	768.3	768.3	768.3	768.3	768.3	768.3	768.3	768.3
2.5°	770.3	769.5	769.5	769.1	769.9	769.1	769.5	769.1	769.1	769.9	769.1
5°	773.2	773.6	772.8	772.4	773.6	773.6	773.6	772.8	772.8	773.2	772.8
7.5°	777.3	778.1	778.5	778.9	779.7	780.1	780.1	779.7	779.3	780.5	778.9
10°	781.8	783.0	785.4	786.7	788.7	788.7	789.5	789.5	788.7	789.5	789.1
12.5°	780.1	787.5	791.5	794.4	797.2	799.7	800.5	800.9	800.5	802.1	800.5
15°	783.0	789.1	795.6	800.5	805.8	808.7	809.5	812.7	813.6	814.0	811.5
17.5°	778.5	789.5	796.4	803.8	811.5	816.8	821.7	823.8	824.2	825.0	821.7
20°	768.3	780.5	791.1	801.7	810.7	818.9	822.9	828.6	827.0	830.3	825.8
22.5°	754.4	768.3	781.8	795.6	805.0	814.8	823.3	827.4	829.5	829.5	824.6
25°	732.4	748.7	763.4	777.7	791.9	803.8	813.6	819.7	820.9	820.5	814.8
27.5°	698.2	715.7	732.8	749.1	766.7	780.5	791.9	799.3	801.3	801.3	795.2
30°	650.8	669.6	686.3	705.9	723.8	739.3	755.2	761.8	765.4	765.4	758.5
32.5°	594.6	610.5	626.0	645.1	664.7	682.2	697.3	706.3	710.8	710.4	704.3
35°	533.4	541.1	553.0	567.2	584.8	601.1	615.8	624.3	632.1	631.7	626.0
37.5°	472.2	470.2	471.4	476.7	487.7	499.1	510.6	518.7	525.2	528.1	526.9
40°	412.3	401.7	391.5	387.8	388.6	392.7	398.8	404.9	412.3	416.0	417.6
42.5°	358.5	340.5	322.6	309.1	301.4	298.9	301.8	303.8	308.3	313.6	318.9
45°	315.2	291.2	267.5	246.7	233.7	225.9	224.3	225.9	228.4	233.7	240.6
47.5°	279.7	251.6	225.1	201.9	182.7	172.5	169.6	168.8	171.3	176.2	185.5
50°	248.3	220.2	190.9	163.9	144.0	132.5	128.5	126.8	129.7	133.3	141.9
52.5°	214.1	186.4	156.2	130.1	109.3	97.5	93.0	90.5	92.2	97.1	105.6
55°	177.0	151.3	124.0	97.1	77.1	66.1	60.8	59.1	60.8	66.1	74.6
57.5°	139.9	118.3	95.4	70.1	52.2	41.2	35.9	34.3	38.7	40.8	49.8
60°	109.3	91.8	72.2	51.4	35.9	27.3	22.0	20.8	22.8	26.5	33.8
62.5°	82.0	71.0	55.5	36.7	26.5	17.5	14.7	13.5	14.7	17.5	23.2
65°	59.5	51.0	38.7	26.9	17.9	13.1	9.8	9.0	10.2	12.2	17.1
67.5°	40.8	34.3	26.9	18.8	12.2	8.2	6.9	6.9	7.3	9.0	12.6
70°	26.5	22.4	17.1	12.2	8.2	6.1	5.3	4.5	5.3	6.5	8.6
72.5°	16.7	14.3	11.0	8.6	6.1	4.5	3.7	3.3	4.1	4.9	6.5
75°	10.2	7.8	5.7	4.5	3.3	3.3	3.3	1.6	2.0	3.3	4.1
77.5°	6.1	5.3	4.5	3.7	2.9	1.6	1.6	1.6	2.0	2.4	3.7
80°	3.3	2.9	2.0	2.0	1.6	1.2	1.6	1.2	0.8	2.0	2.4
82.5°	2.0	1.6	1.6	1.6	2.0	0.8	1.2	0.8	1.2	1.6	1.2
85°	1.2	1.2	1.2	0.8	2.0	0.8	0.8	0.4	0.4	0.8	0.8
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°	768.3	768.3	768.3	768.3	768.3	768.3	768.3	768.3	768.3	768.3	768.3
2.5°	769.5	769.1	769.5	769.1	769.1	769.1	769.5	769.5	769.1	769.1	769.9
5°	772.8	772.8	772.8	772.4	772.0	772.0	772.8	772.8	771.6	772.8	772.8
7.5°	779.7	778.5	779.7	778.1	777.3	777.7	778.1	777.3	776.5	776.9	776.9
10°	788.7	787.5	787.5	786.2	785.0	784.2	783.4	781.3	779.3	778.9	777.3
12.5°	799.3	797.2	796.0	793.6	791.5	788.7	786.2	783.0	778.9	776.0	773.2
15°	809.9	806.6	803.8	799.7	795.2	790.3	785.0	779.7	773.2	767.5	762.6
17.5°	818.5	814.0	808.7	802.1	795.6	788.3	780.5	772.8	763.4	756.1	750.3
20°	821.3	814.8	807.9	799.3	790.7	780.5	770.7	760.5	749.9	742.2	735.7
22.5°	817.6	809.9	801.3	792.4	780.9	769.9	758.5	746.7	737.3	726.7	720.6
25°	807.4	798.1	788.7	778.1	767.1	754.8	742.6	730.4	718.9	713.2	705.5
27.5°	786.7	776.5	766.3	755.2	742.6	730.4	717.7	705.9	696.1	688.4	683.9
30°	749.9	738.1	726.3	714.5	703.5	690.8	679.0	669.2	659.4	653.3	648.8
32.5°	693.7	683.1	671.2	659.8	649.6	639.0	629.2	620.7	613.7	609.7	606.4
35°	617.8	607.2	598.2	590.1	581.5	577.0	570.9	566.0	563.2	561.5	561.1
37.5°	522.4	516.3	513.4	511.8	510.2	508.9	509.7	511.8	513.4	516.3	519.5
40°	420.4	425.7	427.4	433.1	438.4	445.3	453.1	462.0	469.4	478.8	485.3
42.5°	327.5	337.3	348.7	360.9	374.0	386.6	402.1	416.4	429.4	441.2	451.4
45°	251.6	266.7	283.8	301.4	318.9	337.3	356.0	373.5	389.0	401.7	412.3
47.5°	196.2	212.9	234.9	256.5	277.7	299.3	320.1	338.5	351.5	363.8	373.1
50°	155.4	174.5	198.6	223.5	246.7	269.6	291.6	308.7	321.8	331.5	338.5
52.5°	120.3	143.1	167.6	193.7	218.6	243.5	263.8	279.7	290.4	298.9	304.2
55°	89.7	112.1	138.2	165.2	190.4	214.5	233.7	247.5	256.9	261.8	264.7
57.5°	64.8	85.2	111.3	138.2	161.1	183.9	199.4	212.1	217.4	220.2	221.4
60°	47.3	66.1	89.3	112.6	134.2	152.5	166.0	174.5	178.6	180.2	179.8
62.5°	34.7	51.0	71.0	90.5	108.1	123.2	133.8	139.5	141.5	142.3	141.1
65°	26.5	39.1	56.3	71.4	84.8	95.8	103.6	107.3	108.5	108.1	107.3
67.5°	19.6	29.4	42.0	53.4	63.2	71.8	75.9	79.1	79.9	78.7	77.5
70°	13.9	21.6	30.6	38.3	45.7	50.6	55.0	55.5	55.5	55.0	54.2
72.5°	9.8	15.1	20.8	26.1	30.6	34.3	35.9	37.1	36.7	36.3	35.5
75°	6.5	9.4	15.1	16.3	20.4	21.6	23.2	23.2	23.6	22.4	22.4
77.5°	4.1	6.5	9.0	10.6	12.2	13.9	14.7	14.7	15.1	14.7	14.7
80°	2.4	4.1	4.9	7.3	7.3	8.6	9.0	9.4	8.6	9.8	8.6
82.5°	1.6	2.4	3.7	3.7	4.5	5.3	5.3	5.7	5.7	5.3	5.3
85°	1.2	1.6	2.0	2.4	2.4	2.9	2.4	2.4	2.9	3.3	2.9
87.5°	0.4	0.8	0.4	0.8	0.8	1.6	1.2	1.2	1.2	1.6	1.6
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°	768.3	768.3	768.3	768.3
2.5°	769.1	769.5	769.1	769.1
5°	772.8	772.4	772.8	772.0
7.5°	775.6	775.6	775.2	775.2
10°	775.6	774.0	774.0	774.0
12.5°	769.5	767.5	766.3	765.4
15°	758.9	755.2	753.6	753.2
17.5°	745.1	741.8	739.8	738.5
20°	729.1	725.9	723.4	723.8
22.5°	715.3	711.6	710.0	709.2
25°	701.4	696.9	695.7	694.9
27.5°	679.0	676.5	675.3	674.1
30°	644.7	643.5	641.5	644.3
32.5°	605.2	603.1	601.5	602.7
35°	561.5	560.3	561.5	560.7
37.5°	521.6	522.8	524.4	525.2
40°	490.2	494.7	496.3	497.1
42.5°	458.8	464.1	467.3	469.4
45°	420.0	425.3	429.0	431.5
47.5°	380.1	384.6	388.2	387.8
50°	343.8	346.2	347.8	349.5
52.5°	307.1	307.1	307.5	307.5
55°	265.5	264.7	264.3	264.7
57.5°	219.8	219.0	218.6	217.4
60°	178.2	175.8	174.1	174.1
62.5°	139.5	136.6	135.4	135.0
65°	104.8	104.4	101.9	101.5
67.5°	75.9	74.2	72.6	73.0
70°	53.4	51.0	51.0	50.2
72.5°	34.7	33.4	33.0	33.0
75°	21.6	21.6	20.8	22.4
77.5°	14.3	14.3	13.9	14.3
80°	8.6	8.6	8.6	8.2
82.5°	5.3	5.7	5.3	5.3
85°	2.9	3.3	2.4	3.7
87.5°	1.6	2.0	1.6	2.0
90°	0.0	0.0	0.0	0.0

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