

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: P245509

Luminaire Tested: **LSR8B15D010 EC8B15950 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245509  
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 EC8B15950 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1455.0 lumens  
Efficiency: N/A  
Efficacy: 101.0 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

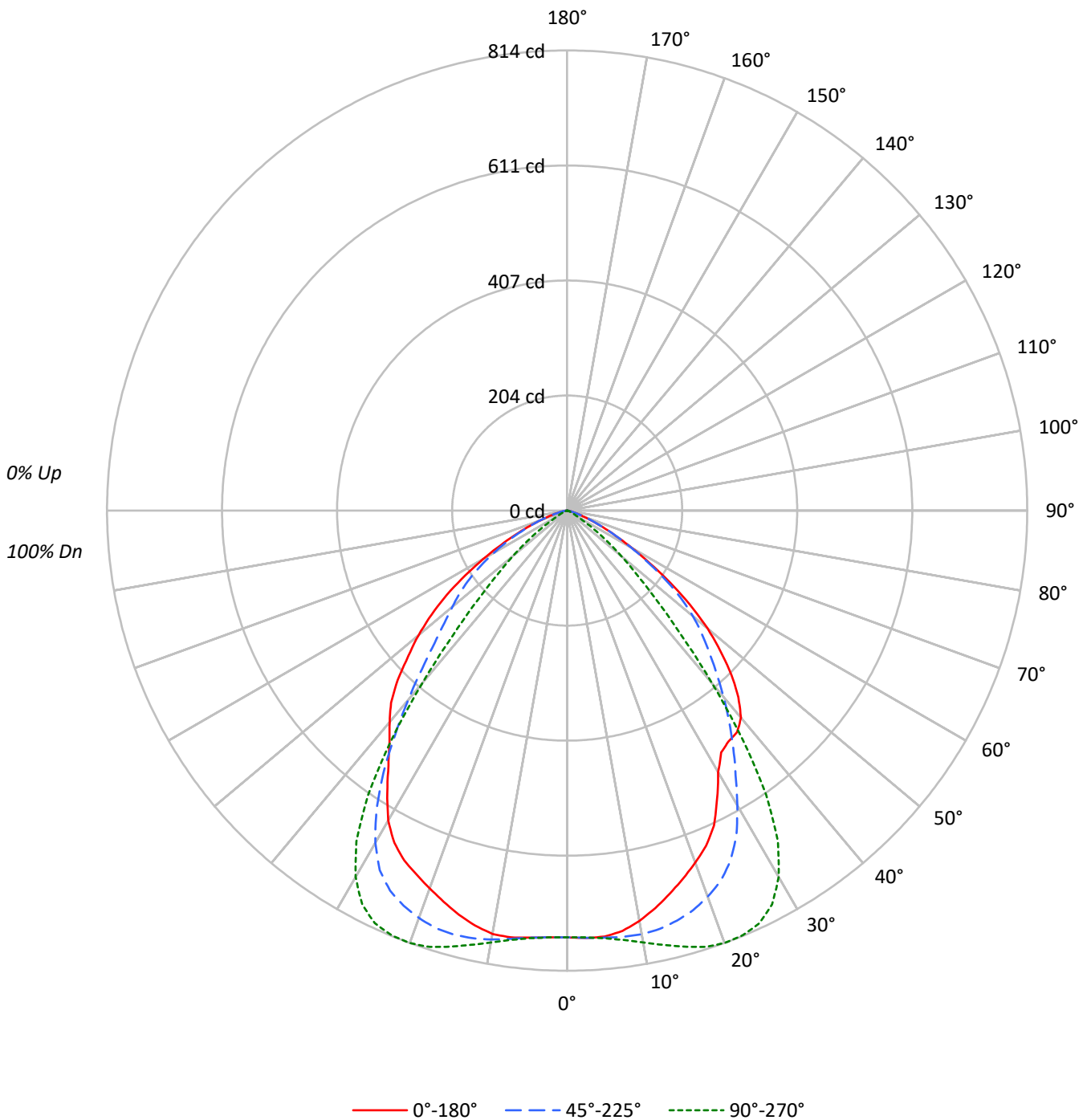
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	75	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°	23275	23275	23275
5°	23414	23500	23476
10°	23071	24286	23810
15°	22395	25491	23624
20°	21747	26715	23335
25°	20911	27400	23228
30°	19032	26648	22539
35°	18747	23091	20738
40°	19257	16013	19660
45°	17928	9681	18486
50°	15548	5977	16474
55°	11935	3124	13978
60°	8128	1258	10552
65°	5056	642	7282
70°	2741	397	4445
75°	1430	191	2621
80°	639	213	1421
85°	425	142	1274



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.6	5.0
10°-20°	215.0	14.8
20°-30°	328.1	22.5
30°-40°	342.3	23.5
40°-50°	257.1	17.7
50°-60°	158.2	10.9
60°-70°	64.4	4.4
70°-80°	15.2	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°	615.7	42.3
0°-40°	958.0	65.8
0°-60°	1373.4	94.4
0°-90°	1455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1455.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	755	755	755	755	755	
5°	756	758	759	758	758	72
15°	702	751	798	776	740	198
25°	615	684	805	742	683	279
35°	498	512	613	567	551	314
45°	411	356	222	331	424	314
55°	222	211	58	211	260	200
65°	69	70	9	94	100	72
75°	12	12	2	21	22	14
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°	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8
2.5°	756.8	755.6	756.8	756.8	757.2	756.4	756.8	757.2	756.4	756.4	756.4
5°	756.4	755.6	756.4	756.0	756.8	756.8	757.6	757.6	758.4	758.4	759.6
7.5°	750.0	748.4	750.0	751.2	752.0	753.6	755.6	757.2	758.8	760.4	762.4
10°	736.8	736.8	738.0	740.4	742.8	745.6	749.2	753.2	757.2	760.8	764.4
12.5°	720.4	719.1	721.6	724.8	728.4	732.8	738.4	744.4	750.8	758.0	763.6
15°	701.5	700.3	703.1	706.3	710.7	717.1	724.0	732.0	741.2	750.8	760.0
17.5°	682.3	681.9	684.7	689.1	692.7	699.5	708.3	717.9	728.4	741.2	753.2
20°	662.7	662.3	665.1	668.7	673.5	679.9	688.7	699.9	712.3	726.8	740.8
22.5°	642.2	642.6	645.0	649.0	653.0	659.9	669.1	680.3	693.9	709.5	725.2
25°	614.6	612.6	615.8	619.8	626.6	632.2	641.0	653.0	667.1	683.5	701.9
27.5°	574.5	574.1	576.9	580.5	586.5	593.3	603.0	615.4	630.2	648.2	666.3
30°	534.5	535.3	536.5	540.1	544.1	550.9	560.5	570.9	584.9	602.2	621.4
32.5°	507.2	507.2	508.8	511.2	514.0	517.6	524.4	532.0	542.9	554.9	568.9
35°	498.0	496.4	498.0	498.4	498.8	499.6	500.8	503.2	506.8	512.0	517.2
37.5°	494.0	492.8	492.8	491.2	489.2	486.8	483.6	480.0	476.0	470.8	466.8
40°	478.4	477.6	476.8	475.2	470.8	465.9	460.7	452.3	443.1	430.3	417.5
42.5°	448.3	447.5	447.1	443.9	439.9	434.3	428.3	419.5	407.9	391.4	373.0
45°	411.1	409.5	408.3	405.5	402.6	397.8	392.2	384.2	372.6	355.8	333.7
47.5°	367.8	367.0	366.6	365.4	362.6	359.8	356.2	349.8	339.3	323.3	300.5
50°	324.1	322.5	323.3	322.9	321.7	319.7	317.3	312.9	304.9	290.5	269.6
52.5°	274.0	274.0	273.6	274.8	275.2	274.8	275.2	270.4	263.6	252.8	235.2
55°	222.0	222.0	223.2	224.8	226.4	226.8	226.4	224.4	219.5	210.7	195.1
57.5°	173.1	172.3	174.7	177.1	178.7	180.3	179.1	177.5	174.7	167.5	155.4
60°	131.8	131.8	133.4	135.0	136.6	138.2	137.8	137.4	135.0	130.2	120.6
62.5°	97.0	97.4	97.4	98.6	100.2	101.8	103.0	101.8	100.6	97.4	90.9
65°	69.3	68.9	69.3	70.5	71.7	73.3	74.1	73.7	72.5	70.1	65.3
67.5°	46.5	46.1	47.7	48.1	48.9	50.5	50.1	50.5	50.1	48.1	44.1
70°	30.4	29.6	30.4	30.0	31.3	31.7	32.4	32.9	32.4	31.3	30.0
72.5°	18.8	18.4	18.8	19.2	19.6	20.0	20.8	20.8	20.4	19.6	18.0
75°	12.0	10.8	11.2	10.4	11.2	11.2	12.0	12.4	12.0	12.0	11.2
77.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.6	8.0	7.2	6.8
80°	3.6	3.6	4.0	4.0	4.0	4.4	4.0	4.0	4.0	4.4	3.2
82.5°	2.8	2.4	2.4	2.4	2.8	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°	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8
2.5°	756.8	756.0	756.0	755.6	756.4	755.6	756.0	755.6	755.6	756.4	755.6
5°	759.6	760.0	759.2	758.8	760.0	760.0	760.0	759.2	759.2	759.6	759.2
7.5°	763.6	764.4	764.8	765.2	766.0	766.4	766.4	766.0	765.6	766.8	765.2
10°	768.0	769.2	771.6	772.8	774.8	774.8	775.6	775.6	774.8	775.6	775.2
12.5°	766.4	773.6	777.6	780.4	783.3	785.7	786.5	786.9	786.5	788.1	786.5
15°	769.2	775.2	781.7	786.5	791.7	794.5	795.3	798.5	799.3	799.7	797.3
17.5°	764.8	775.6	782.4	789.7	797.3	802.5	807.3	809.3	809.7	810.5	807.3
20°	754.8	766.8	777.2	787.7	796.5	804.5	808.5	814.1	812.5	815.7	811.3
22.5°	741.2	754.8	768.0	781.7	790.9	800.5	808.9	812.9	814.9	814.9	810.1
25°	719.6	735.6	750.0	764.0	778.0	789.7	799.3	805.3	806.5	806.1	800.5
27.5°	685.9	703.1	720.0	736.0	753.2	766.8	778.0	785.3	787.3	787.3	781.3
30°	639.4	657.9	674.3	693.5	711.1	726.4	742.0	748.4	752.0	752.0	745.2
32.5°	584.1	599.8	615.0	633.8	653.0	670.3	685.1	693.9	698.3	697.9	691.9
35°	524.0	531.6	543.3	557.3	574.5	590.5	605.0	613.4	621.0	620.6	615.0
37.5°	463.9	461.9	463.1	468.3	479.2	490.4	501.6	509.6	516.0	518.8	517.6
40°	405.1	394.6	384.6	381.0	381.8	385.8	391.8	397.8	405.1	408.7	410.3
42.5°	352.2	334.5	316.9	303.7	296.1	293.7	296.5	298.5	302.9	308.1	313.3
45°	309.7	286.1	262.8	242.4	229.6	222.0	220.4	222.0	224.4	229.6	236.4
47.5°	274.8	247.2	221.2	198.3	179.5	169.5	166.7	165.9	168.3	173.1	182.3
50°	244.0	216.3	187.5	161.1	141.4	130.2	126.2	124.6	127.4	131.0	139.4
52.5°	210.3	183.1	153.4	127.8	107.4	95.8	91.3	88.9	90.5	95.4	103.8
55°	173.9	148.6	121.8	95.4	75.7	64.9	59.7	58.1	59.7	64.9	73.3
57.5°	137.4	116.2	93.7	68.9	51.3	40.5	35.3	33.7	38.1	40.1	48.9
60°	107.4	90.1	70.9	50.5	35.3	26.8	21.6	20.4	22.4	26.0	33.3
62.5°	80.5	69.7	54.5	36.1	26.0	17.2	14.4	13.2	14.4	17.2	22.8
65°	58.5	50.1	38.1	26.4	17.6	12.8	9.6	8.8	10.0	12.0	16.8
67.5°	40.1	33.7	26.4	18.4	12.0	8.0	6.8	6.8	7.2	8.8	12.4
70°	26.0	22.0	16.8	12.0	8.0	6.0	5.2	4.4	5.2	6.4	8.4
72.5°	16.4	14.0	10.8	8.4	6.0	4.4	3.6	3.2	4.0	4.8	6.4
75°	10.0	7.6	5.6	4.4	3.2	3.2	3.2	1.6	2.0	3.2	4.0
77.5°	6.0	5.2	4.4	3.6	2.8	1.6	1.6	1.6	2.0	2.4	3.6
80°	3.2	2.8	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°	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8
2.5°	756.0	755.6	756.0	755.6	755.6	755.6	756.0	756.0	755.6	755.6	756.4
5°	759.2	759.2	759.2	758.8	758.4	758.4	759.2	759.2	758.0	759.2	759.2
7.5°	766.0	764.8	766.0	764.4	763.6	764.0	764.4	763.6	762.8	763.2	763.2
10°	774.8	773.6	773.6	772.4	771.2	770.4	769.6	767.6	765.6	765.2	763.6
12.5°	785.3	783.3	782.1	779.6	777.6	774.8	772.4	769.2	765.2	762.4	759.6
15°	795.7	792.5	789.7	785.7	781.3	776.4	771.2	766.0	759.6	754.0	749.2
17.5°	804.1	799.7	794.5	788.1	781.7	774.4	766.8	759.2	750.0	742.8	737.2
20°	806.9	800.5	793.7	785.3	776.8	766.8	757.2	747.2	736.8	729.2	722.8
22.5°	803.3	795.7	787.3	778.4	767.2	756.4	745.2	733.6	724.4	713.9	707.9
25°	793.3	784.1	774.8	764.4	753.6	741.6	729.6	717.6	706.3	700.7	693.1
27.5°	772.8	762.8	752.8	742.0	729.6	717.6	705.1	693.5	683.9	676.3	671.9
30°	736.8	725.2	713.5	701.9	691.1	678.7	667.1	657.4	647.8	641.8	637.4
32.5°	681.5	671.1	659.5	648.2	638.2	627.8	618.2	609.8	603.0	599.0	595.7
35°	607.0	596.6	587.7	579.7	571.3	566.9	560.9	556.1	553.3	551.7	551.3
37.5°	513.2	507.2	504.4	502.8	501.2	500.0	500.8	502.8	504.4	507.2	510.4
40°	413.1	418.3	419.9	425.5	430.7	437.5	445.1	453.9	461.1	470.3	476.8
42.5°	321.7	331.3	342.5	354.6	367.4	379.8	395.0	409.1	421.9	433.5	443.5
45°	247.2	262.0	278.8	296.1	313.3	331.3	349.8	367.0	382.2	394.6	405.1
47.5°	192.7	209.1	230.8	252.0	272.8	294.1	314.5	332.5	345.4	357.4	366.6
50°	152.6	171.5	195.1	219.5	242.4	264.8	286.5	303.3	316.1	325.7	332.5
52.5°	118.2	140.6	164.7	190.3	214.7	239.2	259.2	274.8	285.3	293.7	298.9
55°	88.1	110.2	135.8	162.3	187.1	210.7	229.6	243.2	252.4	257.2	260.0
57.5°	63.7	83.7	109.4	135.8	158.3	180.7	195.9	208.3	213.5	216.3	217.5
60°	46.5	64.9	87.7	110.6	131.8	149.8	163.1	171.5	175.5	177.1	176.7
62.5°	34.1	50.1	69.7	88.9	106.2	121.0	131.4	137.0	139.0	139.8	138.6
65°	26.0	38.5	55.3	70.1	83.3	94.1	101.8	105.4	106.6	106.2	105.4
67.5°	19.2	28.9	41.3	52.5	62.1	70.5	74.5	77.7	78.5	77.3	76.1
70°	13.6	21.2	30.0	37.7	44.9	49.7	54.1	54.5	54.5	54.1	53.3
72.5°	9.6	14.8	20.4	25.6	30.0	33.7	35.3	36.5	36.1	35.7	34.9
75°	6.4	9.2	14.8	16.0	20.0	21.2	22.8	22.8	23.2	22.0	22.0
77.5°	4.0	6.4	8.8	10.4	12.0	13.6	14.4	14.4	14.8	14.4	14.4
80°	2.4	4.0	4.8	7.2	7.2	8.4	8.8	9.2	8.4	9.6	8.4
82.5°	1.6	2.4	3.6	3.6	4.4	5.2	5.2	5.6	5.6	5.2	5.2
85°	1.2	1.6	2.0	2.4	2.4	2.8	2.4	2.4	2.8	3.2	2.8
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°	754.8	754.8	754.8	754.8
2.5°	755.6	756.0	755.6	755.6
5°	759.2	758.8	759.2	758.4
7.5°	762.0	762.0	761.6	761.6
10°	762.0	760.4	760.4	760.4
12.5°	756.0	754.0	752.8	752.0
15°	745.6	742.0	740.4	740.0
17.5°	732.0	728.8	726.8	725.6
20°	716.3	713.1	710.7	711.1
22.5°	702.7	699.1	697.5	696.7
25°	689.1	684.7	683.5	682.7
27.5°	667.1	664.7	663.5	662.3
30°	633.4	632.2	630.2	633.0
32.5°	594.6	592.5	590.9	592.2
35°	551.7	550.5	551.7	550.9
37.5°	512.4	513.6	515.2	516.0
40°	481.6	486.0	487.6	488.4
42.5°	450.7	455.9	459.1	461.1
45°	412.7	417.9	421.5	423.9
47.5°	373.4	377.8	381.4	381.0
50°	337.7	340.1	341.7	343.4
52.5°	301.7	301.7	302.1	302.1
55°	260.8	260.0	259.6	260.0
57.5°	215.9	215.1	214.7	213.5
60°	175.1	172.7	171.1	171.1
62.5°	137.0	134.2	133.0	132.6
65°	103.0	102.6	100.2	99.8
67.5°	74.5	72.9	71.3	71.7
70°	52.5	50.1	50.1	49.3
72.5°	34.1	32.9	32.4	32.4
75°	21.2	21.2	20.4	22.0
77.5°	14.0	14.0	13.6	14.0
80°	8.4	8.4	8.4	8.0
82.5°	5.2	5.6	5.2	5.2
85°	2.8	3.2	2.4	3.6
87.5°	1.6	2.0	1.6	2.0
90°	0.0	0.0	0.0	0.0

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