

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: P244207

Luminaire Tested: **LSR8B15D010 EC8B15940 8LBDW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244207  
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 EC8B15940 8LBDW0LI  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1446.0 lumens  
Efficiency: N/A  
Efficacy: 100.4 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

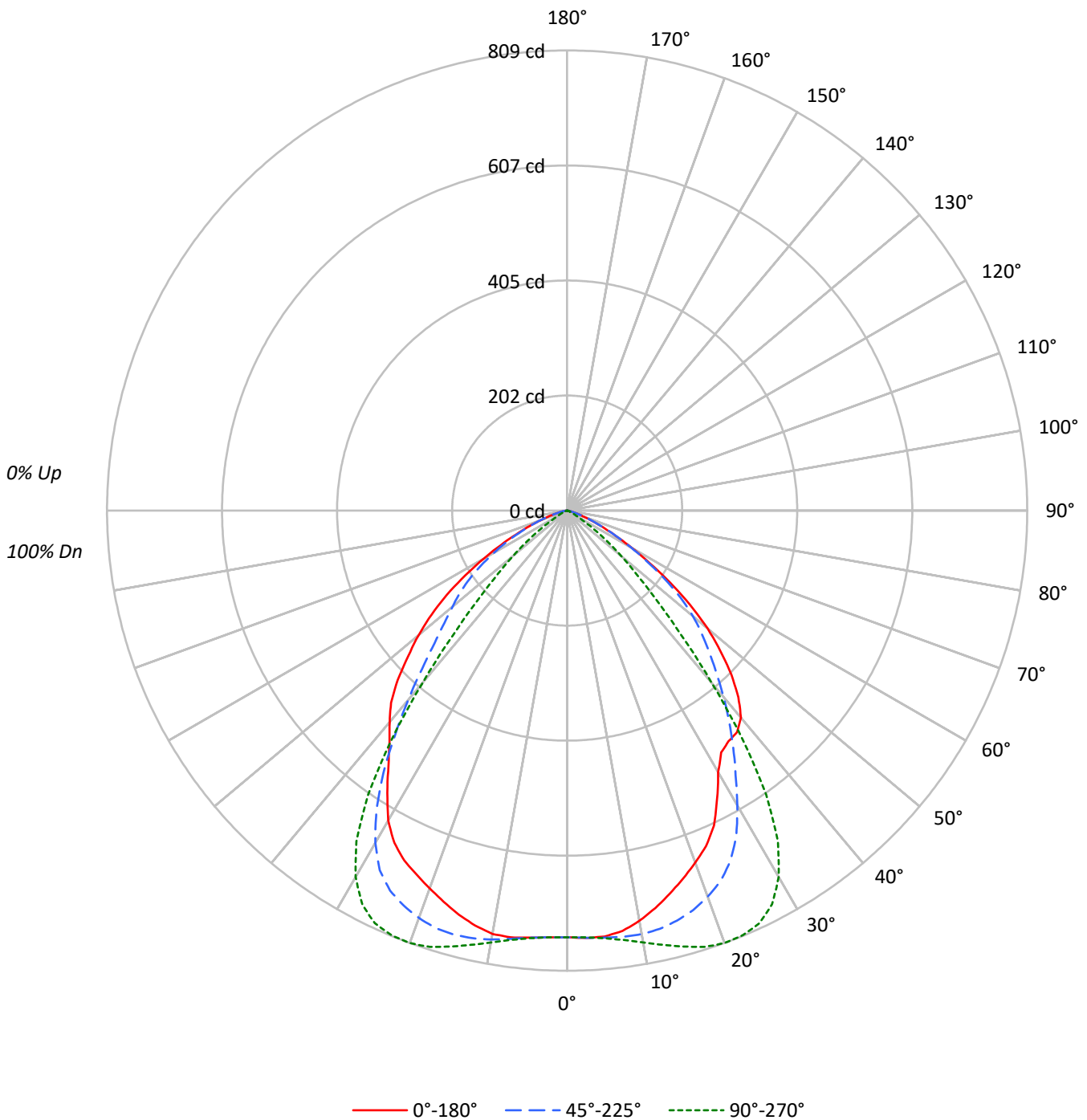
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	23130	23130	23130
5°	23268	23355	23330
10°	22927	24135	23662
15°	22257	25332	23477
20°	21612	26551	23191
25°	20782	27229	23085
30°	18911	26484	22400
35°	18630	22948	20610
40°	19137	15916	19539
45°	17814	9620	18373
50°	15452	5939	16368
55°	11860	3102	13892
60°	8079	1252	10484
65°	5027	642	7231
70°	2732	397	4418
75°	1418	191	2609
80°	639	213	1421
85°	425	142	1274



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.1	5.0
10°-20°	213.7	14.8
20°-30°	326.0	22.5
30°-40°	340.2	23.5
40°-50°	255.5	17.7
50°-60°	157.2	10.9
60°-70°	64.0	4.4
70°-80°	15.1	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°	611.9	42.3
0°-40°	952.1	65.8
0°-60°	1364.9	94.4
0°-90°	1446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1446.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	750	750	750	750	750	
5°	752	754	754	754	754	71
15°	697	746	794	772	735	196
25°	611	679	800	737	678	278
35°	495	509	610	563	548	312
45°	408	354	221	329	421	312
55°	221	209	58	209	258	198
65°	69	70	9	94	99	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°	750.1	750.1	750.1	750.1	750.1	750.1	750.1	750.1	750.1	750.1	750.1
2.5°	752.1	750.9	752.1	752.1	752.5	751.7	752.1	752.5	751.7	751.7	751.7
5°	751.7	750.9	751.7	751.3	752.1	752.1	752.9	752.9	753.7	753.7	754.9
7.5°	745.4	743.8	745.4	746.6	747.3	748.9	750.9	752.5	754.1	755.7	757.7
10°	732.2	732.2	733.4	735.8	738.2	741.0	744.6	748.5	752.5	756.1	759.7
12.5°	715.9	714.7	717.1	720.3	723.9	728.2	733.8	739.8	746.2	753.3	758.9
15°	697.2	696.0	698.8	702.0	706.3	712.7	719.5	727.4	736.6	746.2	755.3
17.5°	678.1	677.7	680.5	684.8	688.4	695.2	704.0	713.5	723.9	736.6	748.5
20°	658.6	658.2	661.0	664.5	669.3	675.7	684.4	695.6	707.9	722.3	736.2
22.5°	638.3	638.7	641.0	645.0	649.0	655.8	664.9	676.1	689.6	705.1	720.7
25°	610.8	608.8	612.0	616.0	622.7	628.3	637.1	649.0	662.9	679.3	697.6
27.5°	571.0	570.6	573.4	576.9	582.9	589.7	599.2	611.6	626.3	644.2	662.1
30°	531.1	531.9	533.1	536.7	540.7	547.5	557.0	567.4	581.3	598.4	617.5
32.5°	504.1	504.1	505.7	508.1	510.8	514.4	521.2	528.8	539.5	551.5	565.4
35°	494.9	493.3	494.9	495.3	495.7	496.5	497.7	500.1	503.7	508.9	514.0
37.5°	490.9	489.7	489.7	488.2	486.2	483.8	480.6	477.0	473.0	467.8	463.9
40°	475.4	474.6	473.8	472.2	467.8	463.1	457.9	449.5	440.4	427.6	414.9
42.5°	445.5	444.7	444.3	441.2	437.2	431.6	425.6	416.9	405.3	389.0	370.7
45°	408.5	406.9	405.7	402.9	400.1	395.4	389.8	381.8	370.3	353.6	331.7
47.5°	365.5	364.7	364.3	363.1	360.3	357.5	354.0	347.6	337.2	321.3	298.6
50°	322.1	320.5	321.3	320.9	319.7	317.7	315.3	311.0	303.0	288.7	268.0
52.5°	272.3	272.3	271.9	273.1	273.5	273.1	273.5	268.8	262.0	251.2	233.7
55°	220.6	220.6	221.8	223.4	225.0	225.4	225.0	223.0	218.2	209.4	193.9
57.5°	172.0	171.2	173.6	176.0	177.6	179.2	178.0	176.4	173.6	166.4	154.5
60°	131.0	131.0	132.6	134.2	135.8	137.4	137.0	136.6	134.2	129.4	119.9
62.5°	96.4	96.8	96.8	97.9	99.5	101.1	102.3	101.1	99.9	96.8	90.4
65°	68.9	68.5	68.9	70.1	71.3	72.9	73.7	73.3	72.1	69.7	64.9
67.5°	46.2	45.8	47.4	47.8	48.6	50.2	49.8	50.2	49.8	47.8	43.8
70°	30.3	29.5	30.3	29.9	31.1	31.5	32.2	32.6	32.2	31.1	29.9
72.5°	18.7	18.3	18.7	19.1	19.5	19.9	20.7	20.7	20.3	19.5	17.9
75°	11.9	10.7	11.1	10.4	11.1	11.1	11.9	12.3	11.9	11.9	11.1
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°	750.1	750.1	750.1	750.1	750.1	750.1	750.1	750.1	750.1	750.1	750.1
2.5°	752.1	751.3	751.3	750.9	751.7	750.9	751.3	750.9	750.9	750.9	750.9
5°	754.9	755.3	754.5	754.1	755.3	755.3	755.3	754.5	754.5	754.5	754.5
7.5°	758.9	759.7	760.1	760.5	761.3	761.7	761.7	761.3	760.9	760.9	760.5
10°	763.3	764.5	766.9	768.1	770.0	770.0	770.8	770.8	770.0	770.0	770.4
12.5°	761.7	768.8	772.8	775.6	778.4	780.8	781.6	782.0	781.6	781.6	781.6
15°	764.5	770.4	776.8	781.6	786.8	789.6	790.4	793.5	794.3	794.3	792.3
17.5°	760.1	770.8	777.6	784.8	792.3	797.5	802.3	804.3	804.7	804.7	802.3
20°	750.1	762.1	772.4	782.8	791.5	799.5	803.5	809.1	807.5	810.7	806.3
22.5°	736.6	750.1	763.3	776.8	786.0	795.5	803.9	807.9	809.9	809.9	805.1
25°	715.1	731.0	745.4	759.3	773.2	784.8	794.3	800.3	801.5	801.5	795.5
27.5°	681.7	698.8	715.5	731.4	748.5	762.1	773.2	780.4	782.4	782.4	776.4
30°	635.5	653.8	670.1	689.2	706.7	721.9	737.4	743.8	747.3	747.3	740.6
32.5°	580.5	596.0	611.2	629.9	649.0	666.1	680.9	689.6	694.0	693.6	687.6
35°	520.8	528.4	539.9	553.8	571.0	586.9	601.2	609.6	617.2	616.8	611.2
37.5°	461.1	459.1	460.3	465.5	476.2	487.4	498.5	506.5	512.8	515.6	514.4
40°	402.5	392.2	382.2	378.7	379.4	383.4	389.4	395.4	402.5	406.1	407.7
42.5°	350.0	332.5	314.9	301.8	294.2	291.9	294.6	296.6	301.0	306.2	311.4
45°	307.8	284.3	261.2	240.9	228.1	220.6	219.0	220.6	223.0	228.1	234.9
47.5°	273.1	245.7	219.8	197.1	178.4	168.4	165.6	164.8	167.2	172.0	181.2
50°	242.5	215.0	186.3	160.1	140.6	129.4	125.4	123.8	126.6	130.2	138.6
52.5°	209.0	182.0	152.5	127.0	106.7	95.2	90.8	88.4	90.0	94.8	103.1
55°	172.8	147.7	121.0	94.8	75.3	64.5	59.3	57.7	59.3	64.5	72.9
57.5°	136.6	115.5	93.2	68.5	51.0	40.2	35.0	33.4	37.8	39.8	48.6
60°	106.7	89.6	70.5	50.2	35.0	26.7	21.5	20.3	22.3	25.9	33.0
62.5°	80.0	69.3	54.1	35.8	25.9	17.1	14.3	13.1	14.3	17.1	22.7
65°	58.1	49.8	37.8	26.3	17.5	12.7	9.6	8.8	10.0	11.9	16.7
67.5°	39.8	33.4	26.3	18.3	11.9	8.0	6.8	6.8	7.2	8.8	12.3
70°	25.9	21.9	16.7	11.9	8.0	6.0	5.2	4.4	5.2	6.4	8.4
72.5°	16.3	13.9	10.7	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°	750.1	750.1	750.1	750.1	750.1	750.1	750.1	750.1	750.1	750.1	750.1
2.5°	751.3	750.9	751.3	750.9	750.9	750.9	751.3	751.3	750.9	750.9	751.7
5°	754.5	754.5	754.5	754.1	753.7	753.7	754.5	754.5	753.3	754.5	754.5
7.5°	761.3	760.1	761.3	759.7	758.9	759.3	759.7	758.9	758.1	758.5	758.5
10°	770.0	768.8	768.8	767.7	766.5	765.7	764.9	762.9	760.9	760.5	758.9
12.5°	780.4	778.4	777.2	774.8	772.8	770.0	767.7	764.5	760.5	757.7	754.9
15°	790.7	787.6	784.8	780.8	776.4	771.6	766.5	761.3	754.9	749.3	744.6
17.5°	799.1	794.7	789.6	783.2	776.8	769.6	762.1	754.5	745.4	738.2	732.6
20°	801.9	795.5	788.8	780.4	772.0	762.1	752.5	742.6	732.2	724.7	718.3
22.5°	798.3	790.7	782.4	773.6	762.5	751.7	740.6	729.0	719.9	709.5	703.6
25°	788.4	779.2	770.0	759.7	748.9	737.0	725.1	713.1	702.0	696.4	688.8
27.5°	768.1	758.1	748.1	737.4	725.1	713.1	700.8	689.2	679.7	672.1	667.7
30°	732.2	720.7	709.1	697.6	686.8	674.5	662.9	653.4	643.8	637.9	633.5
32.5°	677.3	666.9	655.4	644.2	634.3	623.9	614.4	606.0	599.2	595.2	592.1
35°	603.2	592.9	584.1	576.1	567.8	563.4	557.4	552.6	549.9	548.3	547.9
37.5°	510.0	504.1	501.3	499.7	498.1	496.9	497.7	499.7	501.3	504.1	507.3
40°	410.5	415.7	417.3	422.8	428.0	434.8	442.4	451.1	458.3	467.4	473.8
42.5°	319.7	329.3	340.4	352.4	365.1	377.5	392.6	406.5	419.3	430.8	440.8
45°	245.7	260.4	277.1	294.2	311.4	329.3	347.6	364.7	379.8	392.2	402.5
47.5°	191.5	207.8	229.3	250.4	271.1	292.3	312.6	330.5	343.2	355.2	364.3
50°	151.7	170.4	193.9	218.2	240.9	263.2	284.7	301.4	314.2	323.7	330.5
52.5°	117.5	139.8	163.6	189.1	213.4	237.7	257.6	273.1	283.5	291.9	297.0
55°	87.6	109.5	135.0	161.3	185.9	209.4	228.1	241.7	250.8	255.6	258.4
57.5°	63.3	83.2	108.7	135.0	157.3	179.6	194.7	207.0	212.2	215.0	216.2
60°	46.2	64.5	87.2	109.9	131.0	148.9	162.1	170.4	174.4	176.0	175.6
62.5°	33.8	49.8	69.3	88.4	105.5	120.2	130.6	136.2	138.2	139.0	137.8
65°	25.9	38.2	54.9	69.7	82.8	93.6	101.1	104.7	105.9	105.5	104.7
67.5°	19.1	28.7	41.0	52.2	61.7	70.1	74.1	77.2	78.0	76.8	75.6
70°	13.5	21.1	29.9	37.4	44.6	49.4	53.7	54.1	54.1	53.7	53.0
72.5°	9.6	14.7	20.3	25.5	29.9	33.4	35.0	36.2	35.8	35.4	34.6
75°	6.4	9.2	14.7	15.9	19.9	21.1	22.7	22.7	23.1	21.9	21.9
77.5°	4.0	6.4	8.8	10.4	11.9	13.5	14.3	14.3	14.7	14.3	14.3
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°	750.1	750.1	750.1	750.1
2.5°	750.9	751.3	750.9	750.9
5°	754.5	754.1	754.5	753.7
7.5°	757.3	757.3	756.9	756.9
10°	757.3	755.7	755.7	755.7
12.5°	751.3	749.3	748.1	747.3
15°	741.0	737.4	735.8	735.4
17.5°	727.4	724.3	722.3	721.1
20°	711.9	708.7	706.3	706.7
22.5°	698.4	694.8	693.2	692.4
25°	684.8	680.5	679.3	678.5
27.5°	662.9	660.6	659.4	658.2
30°	629.5	628.3	626.3	629.1
32.5°	590.9	588.9	587.3	588.5
35°	548.3	547.1	548.3	547.5
37.5°	509.3	510.4	512.0	512.8
40°	478.6	483.0	484.6	485.4
42.5°	447.9	453.1	456.3	458.3
45°	410.1	415.3	418.9	421.3
47.5°	371.1	375.5	379.0	378.7
50°	335.7	338.0	339.6	341.2
52.5°	299.8	299.8	300.2	300.2
55°	259.2	258.4	258.0	258.4
57.5°	214.6	213.8	213.4	212.2
60°	174.0	171.6	170.0	170.0
62.5°	136.2	133.4	132.2	131.8
65°	102.3	101.9	99.5	99.1
67.5°	74.1	72.5	70.9	71.3
70°	52.2	49.8	49.8	49.0
72.5°	33.8	32.6	32.2	32.2
75°	21.1	21.1	20.3	21.9
77.5°	13.9	13.9	13.5	13.9
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

(END OF REPORT)