

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: P246181

Luminaire Tested: **LSR8B15D010 EC8B15830 8LBDW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246181  
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 EC8B15830 8LBDW0MW  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1489.0 lumens  
Efficiency: N/A  
Efficacy: 103.4 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

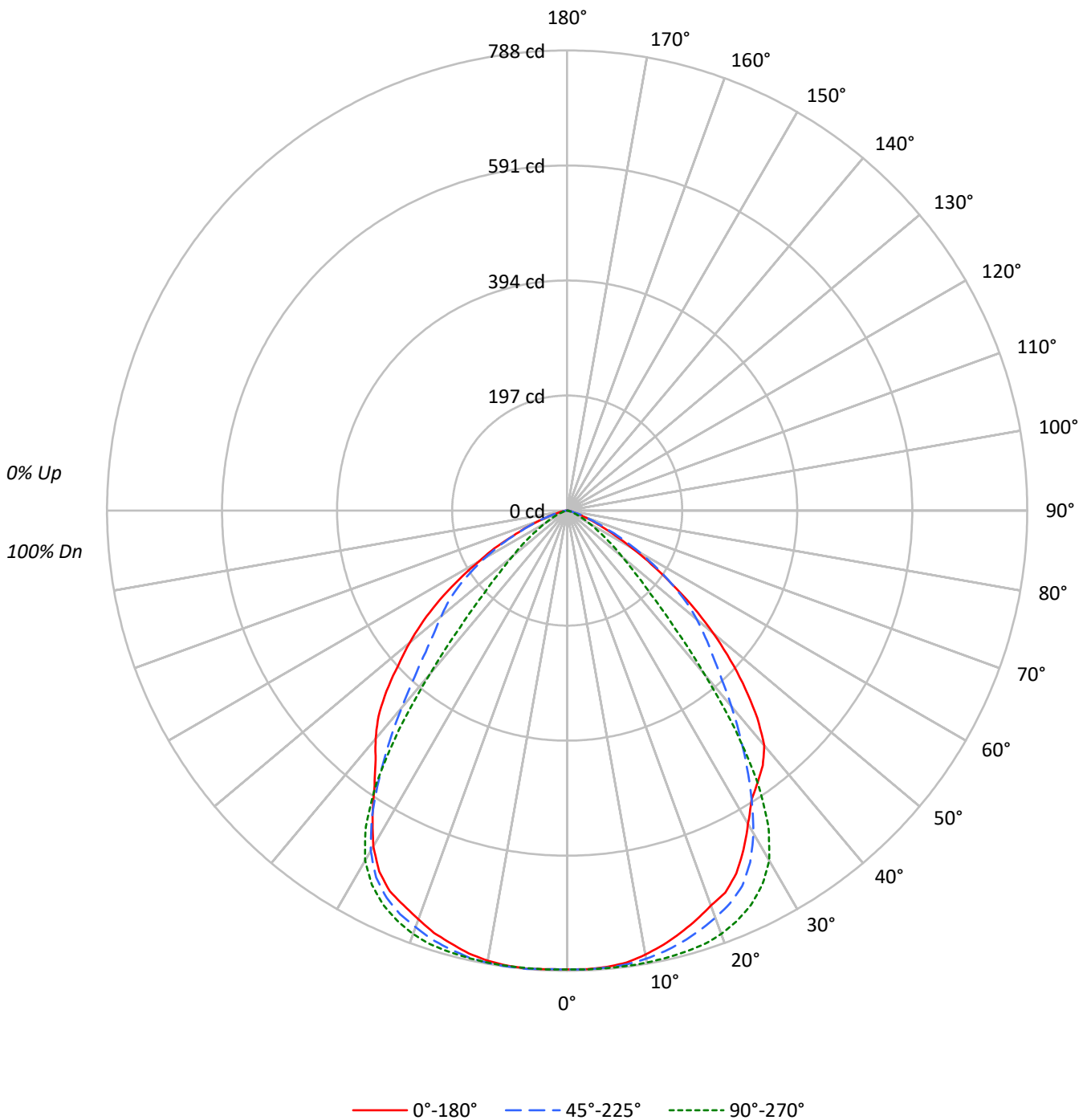
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

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

	0°	90°	180°
0°	24225	24225	24225
5°	24280	24345	24370
10°	24176	24611	24508
15°	23908	24974	24502
20°	23620	25324	24438
25°	23317	25351	24463
30°	22058	24640	23636
35°	21401	21416	21638
40°	21133	14733	20542
45°	18830	8844	19088
50°	15658	5886	16872
55°	11742	4059	14306
60°	7956	2707	10793
65°	4801	1751	7413
70°	2660	947	4562
75°	1203	405	2359
80°	1048	444	1651
85°	1203	601	1628



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.0	5.0
10°-20°	217.7	14.6
20°-30°	330.5	22.2
30°-40°	347.1	23.3
40°-50°	260.2	17.5
50°-60°	167.0	11.2
60°-70°	71.4	4.8
70°-80°	16.9	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°	623.2	41.9
0°-40°	970.3	65.2
0°-60°	1397.6	93.9
0°-90°	1489.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1489.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	786	786	786	786	786	
5°	784	786	786	788	787	75
15°	749	764	782	777	768	211
25°	685	709	745	732	719	313
35°	568	537	569	562	575	357
45°	432	353	203	343	438	331
55°	218	218	76	228	266	198
65°	66	78	24	100	102	70
75°	10	12	3	20	20	15
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°	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6
2.5°	786.0	786.9	786.5	786.5	786.0	786.5	786.5	787.3	787.3	786.5	786.0
5°	784.4	785.2	785.2	784.4	784.4	786.5	785.2	786.0	786.0	785.6	785.6
7.5°	780.6	780.6	782.3	781.0	781.0	782.3	781.8	782.7	783.5	783.9	783.9
10°	772.1	773.0	773.4	773.4	773.8	775.1	775.9	777.6	778.5	779.3	779.7
12.5°	761.6	762.9	763.3	762.9	764.1	765.8	767.9	770.0	771.3	773.0	774.2
15°	748.9	748.9	749.8	751.0	751.9	754.4	756.5	759.1	762.4	764.5	766.7
17.5°	735.0	735.9	737.1	737.1	738.8	743.0	744.3	748.1	751.9	754.0	758.2
20°	719.8	720.7	722.0	722.8	724.9	728.3	730.8	734.2	738.4	742.2	746.4
22.5°	708.0	706.3	707.2	708.0	710.1	713.1	716.0	720.3	724.5	728.3	732.5
25°	685.3	685.7	687.0	687.8	690.3	692.9	696.2	701.3	705.1	709.3	713.9
27.5°	654.5	654.9	657.0	657.0	659.1	663.3	665.4	669.7	674.7	678.9	684.4
30°	619.5	620.3	620.3	622.0	623.3	625.4	627.5	631.7	634.2	638.0	645.6
32.5°	587.4	588.3	587.8	587.4	586.2	585.7	585.3	586.2	587.0	588.3	591.2
35°	568.5	566.3	564.7	561.7	558.3	554.1	550.3	545.3	540.6	536.8	532.6
37.5°	550.3	549.9	547.4	543.1	536.4	528.8	520.0	509.0	498.0	486.2	474.8
40°	525.0	523.7	521.6	515.7	508.1	498.9	487.1	473.6	455.9	437.7	419.2
42.5°	482.0	482.4	479.9	475.3	468.1	459.2	447.0	432.2	413.3	391.8	367.7
45°	431.8	431.8	431.0	427.2	422.1	415.0	405.7	393.4	374.9	353.0	327.2
47.5°	379.5	380.0	378.7	377.8	375.7	371.1	364.3	355.1	342.0	320.9	295.2
50°	326.4	326.4	328.5	328.1	328.1	326.4	323.4	318.0	306.6	289.7	265.7
52.5°	273.3	274.1	275.4	277.1	279.2	282.5	279.2	276.6	269.5	256.4	235.7
55°	218.4	219.3	221.4	224.3	226.9	230.3	231.1	231.1	227.3	218.4	202.8
57.5°	171.6	170.4	172.1	174.6	178.0	181.3	183.9	186.8	186.4	180.5	167.8
60°	129.0	129.5	130.7	133.3	135.8	138.7	142.1	144.6	145.9	143.0	134.9
62.5°	94.0	94.0	95.7	98.3	99.5	103.7	105.8	107.1	108.4	108.0	102.9
65°	65.8	66.6	67.5	68.7	70.0	72.5	73.8	76.3	77.2	77.6	73.8
67.5°	46.4	45.1	46.0	46.8	48.1	49.8	52.3	52.3	53.6	53.6	51.0
70°	29.5	29.5	29.9	31.2	32.0	32.5	33.3	34.2	35.4	35.0	35.0
72.5°	19.8	19.4	19.8	20.2	20.7	21.9	21.9	22.3	23.2	23.6	21.9
75°	10.1	10.5	11.4	11.0	12.2	11.4	11.8	13.1	12.7	11.8	11.8
77.5°	8.4	8.4	8.4	8.0	8.9	8.9	8.4	9.3	8.9	8.9	8.4
80°	5.9	6.3	5.9	5.5	5.9	5.5	5.5	5.5	5.5	5.5	5.1
82.5°	4.6	3.8	4.2	3.8	4.2	4.2	3.8	3.4	3.4	3.8	3.4
85°	3.4	2.5	3.0	3.0	2.5	2.5	2.5	2.5	2.5	2.1	2.1
87.5°	2.1	1.3	1.3	1.3	1.7	1.7	1.7	1.3	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°	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6
2.5°	786.9	786.5	787.3	786.9	786.9	786.5	786.9	786.5	787.3	785.6	786.0
5°	786.9	786.0	786.5	786.9	787.3	786.5	786.5	786.5	787.3	786.5	786.9
7.5°	785.2	784.8	786.0	786.9	786.5	786.0	786.9	786.5	787.3	786.9	787.7
10°	781.8	782.3	783.1	784.4	784.8	785.2	786.0	786.0	787.3	785.6	786.5
12.5°	776.8	778.5	780.6	781.4	783.1	783.1	783.9	784.4	785.2	784.8	786.0
15°	770.4	772.6	775.1	777.2	779.3	780.6	781.8	782.3	783.5	782.3	782.7
17.5°	762.9	765.4	769.2	771.7	775.1	776.3	778.0	778.9	780.1	779.3	779.7
20°	752.3	755.3	759.5	763.3	765.4	768.3	770.4	771.7	772.6	771.7	772.1
22.5°	737.6	741.8	747.3	750.2	754.4	757.0	757.4	760.3	762.4	760.3	761.2
25°	720.3	724.5	728.7	735.0	738.8	741.8	744.7	745.1	747.3	746.8	746.4
27.5°	691.6	697.1	704.2	709.3	714.4	719.0	722.4	723.2	725.3	724.5	724.9
30°	652.4	658.3	665.0	673.0	680.2	684.8	689.1	692.0	694.1	692.9	692.4
32.5°	596.7	602.6	609.8	617.8	626.2	633.0	638.0	641.8	644.4	643.5	641.4
35°	533.0	534.7	539.4	545.7	552.8	560.0	564.7	568.9	571.8	572.7	572.7
37.5°	467.7	462.2	458.8	458.8	463.0	466.0	470.2	472.7	477.4	479.0	480.3
40°	404.4	391.8	380.0	371.1	365.2	364.8	364.8	366.0	370.3	375.7	380.8
42.5°	347.9	327.7	309.5	293.1	281.3	274.5	271.6	272.0	275.4	280.4	288.9
45°	302.8	277.5	254.7	234.9	218.9	208.3	203.3	202.8	205.4	211.3	220.6
47.5°	267.8	240.8	215.1	192.3	175.0	163.6	157.7	156.0	157.7	163.2	174.2
50°	238.7	210.9	184.3	160.7	142.1	130.3	124.8	122.7	124.8	129.5	140.4
52.5°	211.7	183.0	158.1	135.4	115.5	105.4	99.5	98.3	99.5	105.0	113.9
55°	180.5	156.0	131.6	108.8	91.5	81.4	76.7	75.5	76.7	81.8	91.1
57.5°	149.7	128.6	107.1	86.4	71.7	62.8	58.6	56.9	59.9	63.3	74.2
60°	121.0	104.2	86.0	67.9	55.7	47.7	44.3	43.9	44.7	48.9	56.5
62.5°	94.9	81.0	66.6	51.9	41.7	38.4	34.2	33.7	34.6	37.1	43.0
65°	68.3	59.5	48.5	38.0	29.9	25.3	23.6	24.0	24.9	26.6	32.0
67.5°	47.7	41.3	33.7	26.6	20.7	18.6	16.9	16.4	16.9	19.8	22.8
70°	32.0	28.3	22.8	20.2	14.3	11.4	11.8	10.5	12.2	12.2	14.8
72.5°	21.1	18.6	15.2	11.8	10.1	8.0	8.0	7.6	8.4	8.9	11.0
75°	11.0	8.4	8.4	5.9	4.2	2.1	3.8	3.4	3.0	3.4	4.2
77.5°	7.6	6.3	5.9	4.6	4.2	3.4	3.4	3.4	3.4	3.8	4.2
80°	4.6	4.6	3.4	3.0	2.5	2.1	2.5	2.5	2.5	2.5	3.0
82.5°	3.0	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	1.3	1.7	3.0	1.3	1.7	1.7	1.7	1.3
87.5°	0.8	1.3	1.3	1.3	0.8	0.4	0.8	1.3	1.3	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°	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6
2.5°	786.9	787.3	787.3	786.9	786.9	786.0	787.7	786.5	786.9	788.6	787.3
5°	787.7	788.2	788.2	787.7	787.7	787.7	788.2	788.2	787.7	787.3	788.2
7.5°	789.4	789.0	789.0	788.2	788.2	787.3	788.2	786.9	787.7	786.9	788.2
10°	787.3	787.7	787.3	786.9	786.9	786.5	786.5	785.2	785.6	784.4	785.2
12.5°	786.0	785.6	785.6	784.8	783.9	783.1	782.7	781.4	781.4	778.5	779.7
15°	782.7	783.1	781.8	780.1	779.3	777.2	776.3	774.7	773.0	770.9	771.3
17.5°	779.7	778.5	776.8	775.1	771.7	770.0	768.3	765.8	765.0	762.4	761.6
20°	770.9	770.0	767.9	765.0	762.9	759.1	757.4	754.8	752.7	750.2	748.9
22.5°	759.5	758.6	756.1	753.2	749.8	748.1	746.4	741.8	739.7	737.1	736.7
25°	745.1	743.9	741.3	738.0	736.3	731.7	730.0	726.6	725.7	723.2	722.8
27.5°	723.2	721.5	718.6	714.4	711.4	708.5	706.8	704.2	703.4	700.9	700.4
30°	690.3	688.2	682.3	680.6	675.6	672.6	672.6	669.2	669.7	668.0	668.0
32.5°	638.5	635.1	630.4	627.1	623.7	622.0	622.0	620.7	621.6	621.6	622.4
35°	569.7	565.1	562.5	560.4	560.4	562.1	567.2	568.5	571.0	573.1	574.8
37.5°	481.6	481.2	484.1	486.6	493.0	500.1	509.0	516.6	523.7	528.8	533.9
40°	386.3	396.8	405.3	417.1	426.8	440.7	456.7	469.8	482.0	490.9	500.1
42.5°	301.5	315.0	332.7	350.0	367.3	386.3	407.4	425.5	441.5	453.7	463.4
45°	234.9	253.4	275.0	296.9	319.2	342.8	364.8	383.3	400.2	412.8	422.5
47.5°	189.3	209.6	234.0	258.1	283.4	308.3	332.7	348.7	362.7	372.8	381.6
50°	156.4	178.0	203.7	231.1	256.4	281.3	302.4	318.0	329.3	338.2	343.7
52.5°	130.7	153.5	180.9	208.3	233.6	256.4	275.4	287.2	296.5	302.8	307.8
55°	108.0	129.9	155.6	181.3	206.2	227.7	243.3	252.2	259.3	263.1	266.1
57.5°	88.1	108.4	132.0	155.6	177.1	194.8	207.1	215.9	219.3	222.2	221.8
60°	69.2	88.1	109.6	129.9	148.4	162.8	171.6	176.7	179.2	180.5	179.6
62.5°	54.4	71.7	88.1	105.8	119.3	131.6	140.0	140.0	141.3	141.7	143.0
65°	40.5	53.6	67.9	81.0	91.9	99.9	104.6	105.8	107.5	107.1	106.3
67.5°	29.9	39.6	50.2	59.9	67.5	72.5	75.9	78.9	78.4	77.6	77.2
70°	20.7	27.0	36.3	42.2	47.7	52.7	53.6	54.0	54.4	54.8	54.0
72.5°	14.3	19.0	24.0	29.1	32.5	34.6	36.7	37.1	37.1	37.1	36.7
75°	7.2	9.7	14.3	16.4	19.4	20.2	21.9	21.9	23.2	21.5	21.1
77.5°	6.3	7.6	10.1	11.8	13.1	14.3	14.8	16.0	15.6	14.8	15.2
80°	3.8	4.6	6.3	7.2	8.9	9.3	9.7	10.1	9.7	10.1	10.1
82.5°	3.0	3.4	4.2	4.2	5.5	5.5	5.9	5.9	6.3	6.3	6.3
85°	1.7	3.0	2.5	5.1	3.4	3.4	4.2	5.1	4.2	4.2	5.1
87.5°	1.7	1.7	1.3	1.7	1.7	1.7	2.1	2.5	2.5	3.0	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°	785.6	785.6	785.6	785.6
2.5°	786.9	787.7	786.5	786.0
5°	788.2	788.2	787.3	787.3
7.5°	788.2	788.2	786.9	786.0
10°	784.8	784.8	783.5	782.7
12.5°	778.5	778.5	778.0	776.8
15°	770.4	770.4	768.8	767.5
17.5°	759.5	760.3	758.2	758.2
20°	747.7	747.3	745.6	744.7
22.5°	735.4	734.6	734.2	731.7
25°	722.4	721.5	720.3	719.0
27.5°	700.0	699.6	698.3	696.7
30°	665.9	665.4	663.8	663.8
32.5°	621.6	621.2	619.5	619.9
35°	575.6	577.3	576.5	574.8
37.5°	537.2	538.5	539.4	538.5
40°	505.2	509.0	509.4	510.3
42.5°	471.0	476.1	477.8	478.6
45°	430.1	434.8	438.6	437.7
47.5°	388.4	391.8	395.1	392.6
50°	348.3	350.4	351.7	351.7
52.5°	310.4	310.4	310.0	310.4
55°	266.9	266.9	265.3	266.1
57.5°	221.4	222.2	221.0	218.9
60°	179.2	177.1	176.3	175.0
62.5°	139.6	139.6	136.6	140.4
65°	104.6	103.3	102.0	101.6
67.5°	75.9	75.5	74.2	73.8
70°	53.6	51.9	51.4	50.6
72.5°	35.8	35.8	35.0	35.0
75°	21.9	19.8	19.4	19.8
77.5°	15.2	14.8	14.8	14.3
80°	10.1	9.7	10.5	9.3
82.5°	6.3	6.7	6.3	6.7
85°	4.2	5.1	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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