

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: P244159

Luminaire Tested: **LSR8B15D010 EC8B15827 8LBDW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244159  
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 EC8B15827 8LBDW0LI  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1523.0 lumens  
Efficiency: N/A  
Efficacy: 105.8 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

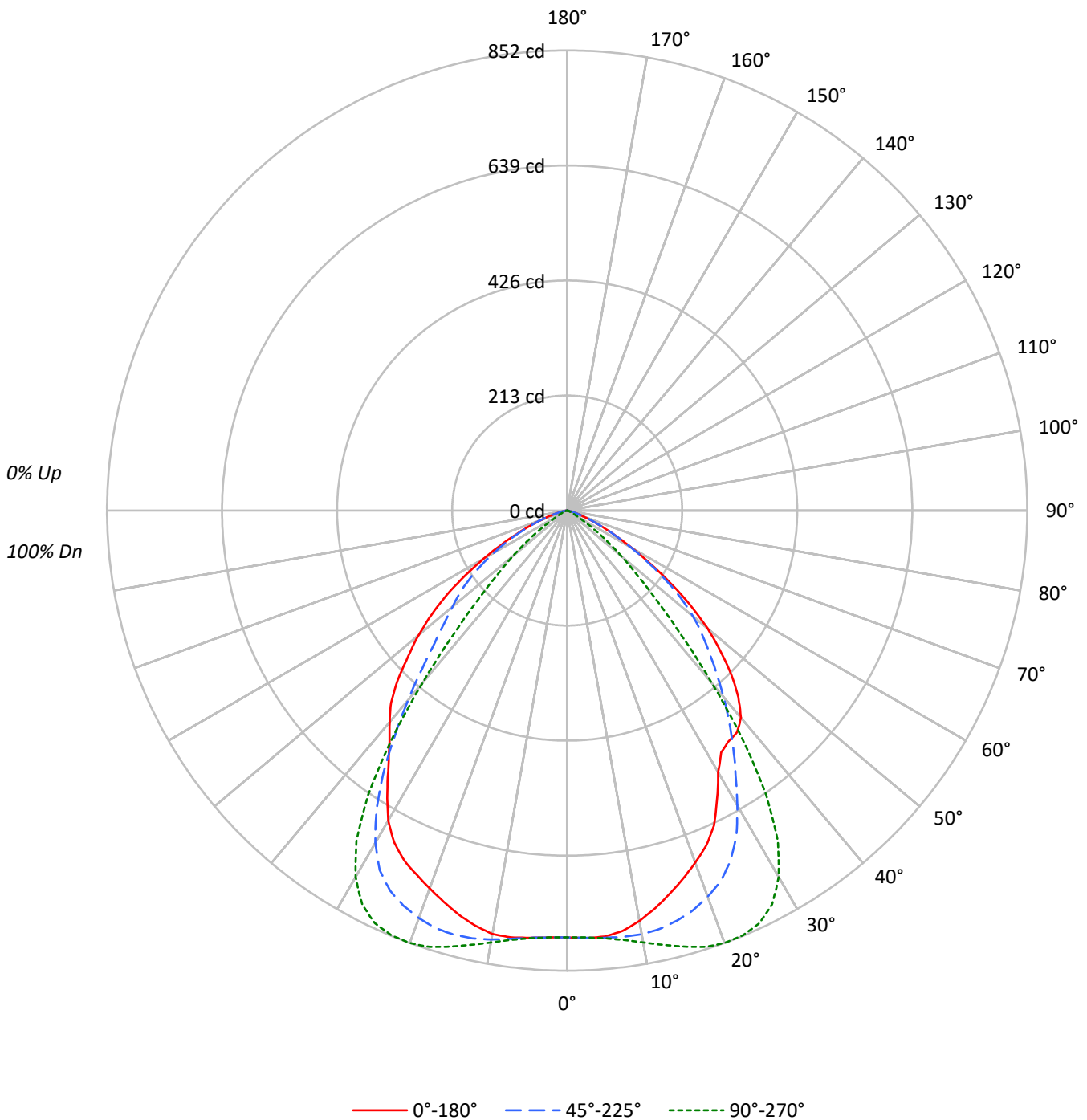
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	24364	24364	24364
5°	24509	24599	24574
10°	24148	25422	24924
15°	23442	26682	24728
20°	22761	27962	24428
25°	21888	28679	24314
30°	19918	27894	23593
35°	19624	24171	21706
40°	20155	16762	20578
45°	18765	10130	19349
50°	16277	6256	17241
55°	12489	3269	14634
60°	8511	1320	11046
65°	5290	671	7618
70°	2876	415	4652
75°	1501	203	2752
80°	675	231	1492
85°	460	142	1344



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.0	5.0
10°-20°	225.1	14.8
20°-30°	343.4	22.5
30°-40°	358.3	23.5
40°-50°	269.2	17.7
50°-60°	165.6	10.9
60°-70°	67.4	4.4
70°-80°	15.9	1.0
80°-90°	2.2	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°	644.5	42.3
0°-40°	1002.8	65.8
0°-60°	1437.5	94.4
0°-90°	1523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1523.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	790	790	790	790	790	
5°	792	794	795	794	794	75
15°	734	786	836	813	775	207
25°	643	715	843	776	715	292
35°	521	536	642	593	577	329
45°	430	372	232	347	444	328
55°	232	221	61	221	272	209
65°	72	73	9	98	104	76
75°	13	13	2	22	23	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°	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1
2.5°	792.2	790.9	792.2	792.2	792.6	791.8	792.2	792.6	791.8	791.8	791.8
5°	791.8	790.9	791.8	791.3	792.2	792.2	793.0	793.0	793.9	793.9	795.1
7.5°	785.1	783.4	785.1	786.3	787.1	788.8	790.9	792.6	794.3	796.0	798.1
10°	771.2	771.2	772.5	775.0	777.5	780.4	784.2	788.4	792.6	796.4	800.1
12.5°	754.0	752.8	755.3	758.6	762.4	767.0	772.9	779.2	785.9	793.4	799.3
15°	734.3	733.0	736.0	739.3	744.0	750.7	757.8	766.2	775.8	785.9	795.5
17.5°	714.2	713.8	716.7	721.3	725.1	732.2	741.4	751.5	762.4	775.8	788.4
20°	693.6	693.2	696.1	699.9	705.0	711.7	720.9	732.6	745.6	760.7	775.4
22.5°	672.2	672.7	675.2	679.4	683.6	690.7	700.3	712.1	726.3	742.7	759.0
25°	643.3	641.2	644.6	648.8	655.9	661.8	671.0	683.6	698.2	715.4	734.7
27.5°	601.4	600.9	603.9	607.7	613.9	621.1	631.1	644.1	659.7	678.5	697.4
30°	559.4	560.3	561.5	565.3	569.5	576.6	586.7	597.6	612.3	630.3	650.4
32.5°	530.9	530.9	532.6	535.1	538.0	541.8	549.0	556.9	568.2	580.8	595.5
35°	521.3	519.6	521.3	521.7	522.1	522.9	524.2	526.7	530.5	536.0	541.4
37.5°	517.1	515.8	515.8	514.1	512.0	509.5	506.2	502.4	498.2	492.8	488.6
40°	500.7	499.9	499.0	497.4	492.8	487.7	482.3	473.5	463.8	450.4	437.0
42.5°	469.3	468.4	468.0	464.7	460.5	454.6	448.3	439.1	426.9	409.7	390.4
45°	430.3	428.6	427.3	424.4	421.5	416.4	410.6	402.2	390.0	372.4	349.3
47.5°	385.0	384.1	383.7	382.5	379.5	376.6	372.8	366.1	355.2	338.4	314.5
50°	339.3	337.6	338.4	338.0	336.8	334.7	332.1	327.5	319.1	304.0	282.2
52.5°	286.8	286.8	286.4	287.7	288.1	287.7	288.1	283.1	275.9	264.6	246.2
55°	232.3	232.3	233.6	235.3	236.9	237.4	236.9	234.8	229.8	220.6	204.2
57.5°	181.2	180.3	182.8	185.4	187.0	188.7	187.5	185.8	182.8	175.3	162.7
60°	138.0	138.0	139.6	141.3	143.0	144.7	144.3	143.8	141.3	136.3	126.2
62.5°	101.5	101.9	101.9	103.2	104.8	106.5	107.8	106.5	105.3	101.9	95.2
65°	72.5	72.1	72.5	73.8	75.1	76.7	77.6	77.2	75.9	73.4	68.4
67.5°	48.6	48.2	49.9	50.3	51.2	52.8	52.4	52.8	52.4	50.3	46.1
70°	31.9	31.0	31.9	31.5	32.7	33.1	34.0	34.4	34.0	32.7	31.5
72.5°	19.7	19.3	19.7	20.1	20.6	21.0	21.8	21.8	21.4	20.6	18.9
75°	12.6	11.3	11.7	10.9	11.7	11.7	12.6	13.0	12.6	12.6	11.7
77.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	8.0	8.4	7.6	7.1
80°	3.8	3.8	4.2	4.2	4.2	4.6	4.2	4.2	4.2	4.6	3.4
82.5°	2.9	2.5	2.5	2.5	2.9	2.5	2.5	2.5	2.5	2.5	2.5
85°	1.3	1.7	1.3	0.8	1.3	1.3	1.7	1.3	1.3	1.3	1.7
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°	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1
2.5°	792.2	791.3	791.3	790.9	791.8	790.9	791.3	790.9	790.9	791.8	790.9
5°	795.1	795.5	794.7	794.3	795.5	795.5	795.5	794.7	794.7	795.1	794.7
7.5°	799.3	800.1	800.6	801.0	801.8	802.2	802.2	801.8	801.4	802.7	801.0
10°	803.9	805.2	807.7	809.0	811.1	811.1	811.9	811.9	811.1	811.9	811.5
12.5°	802.2	809.8	814.0	816.9	819.9	822.4	823.2	823.6	823.2	824.9	823.2
15°	805.2	811.5	818.2	823.2	828.7	831.6	832.4	835.8	836.6	837.1	834.5
17.5°	800.6	811.9	819.0	826.6	834.5	840.0	845.0	847.1	847.5	848.4	845.0
20°	790.1	802.7	813.6	824.5	833.7	842.1	846.3	852.1	850.5	853.8	849.2
22.5°	775.8	790.1	803.9	818.2	827.8	837.9	846.7	850.9	853.0	853.0	848.0
25°	753.2	770.0	785.1	799.7	814.4	826.6	836.6	842.9	844.2	843.8	837.9
27.5°	718.0	736.0	753.6	770.4	788.4	802.7	814.4	821.9	824.1	824.1	817.8
30°	669.3	688.6	705.8	725.9	744.4	760.3	776.7	783.4	787.1	787.1	780.0
32.5°	611.4	627.8	643.7	663.4	683.6	701.6	717.1	726.3	731.0	730.5	724.2
35°	548.5	556.5	568.7	583.3	601.4	618.1	633.2	642.1	650.0	649.6	643.7
37.5°	485.6	483.5	484.8	490.2	501.6	513.3	525.0	533.4	540.1	543.1	541.8
40°	424.0	413.1	402.6	398.8	399.7	403.8	410.1	416.4	424.0	427.8	429.4
42.5°	368.6	350.2	331.7	317.9	309.9	307.4	310.3	312.4	317.0	322.5	327.9
45°	324.2	299.4	275.1	253.7	240.3	232.3	230.7	232.3	234.8	240.3	247.4
47.5°	287.7	258.7	231.5	207.6	187.9	177.4	174.5	173.6	176.1	181.2	190.8
50°	255.4	226.5	196.3	168.6	148.0	136.3	132.1	130.4	133.4	137.1	145.9
52.5°	220.2	191.6	160.6	133.8	112.4	100.2	95.6	93.1	94.8	99.8	108.6
55°	182.0	155.6	127.5	99.8	79.3	67.9	62.5	60.8	62.5	67.9	76.7
57.5°	143.8	121.6	98.1	72.1	53.7	42.4	36.9	35.2	39.8	41.9	51.2
60°	112.4	94.4	74.2	52.8	36.9	28.1	22.6	21.4	23.5	27.3	34.8
62.5°	84.3	73.0	57.0	37.7	27.3	18.0	15.1	13.8	15.1	18.0	23.9
65°	61.2	52.4	39.8	27.7	18.4	13.4	10.1	9.2	10.5	12.6	17.6
67.5°	41.9	35.2	27.7	19.3	12.6	8.4	7.1	7.1	7.6	9.2	13.0
70°	27.3	23.1	17.6	12.6	8.4	6.3	5.4	4.6	5.4	6.7	8.8
72.5°	17.2	14.7	11.3	8.8	6.3	4.6	3.8	3.4	4.2	5.0	6.7
75°	10.5	8.0	5.9	4.6	3.4	3.4	3.4	1.7	2.1	3.4	4.2
77.5°	6.3	5.4	4.6	3.8	2.9	1.7	1.7	1.7	2.1	2.5	3.8
80°	3.4	2.9	2.1	2.1	1.7	1.3	1.7	1.3	0.8	2.1	2.5
82.5°	2.1	1.7	1.7	1.7	2.1	0.8	1.3	0.8	1.3	1.7	1.3
85°	1.3	1.3	1.3	0.8	2.1	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°	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1
2.5°	791.3	790.9	791.3	790.9	790.9	790.9	791.3	791.3	790.9	790.9	791.8
5°	794.7	794.7	794.7	794.3	793.9	793.9	794.7	794.7	793.4	794.7	794.7
7.5°	801.8	800.6	801.8	800.1	799.3	799.7	800.1	799.3	798.5	798.9	798.9
10°	811.1	809.8	809.8	808.5	807.3	806.4	805.6	803.5	801.4	801.0	799.3
12.5°	821.9	819.9	818.6	816.1	814.0	811.1	808.5	805.2	801.0	798.1	795.1
15°	832.9	829.5	826.6	822.4	817.8	812.7	807.3	801.8	795.1	789.2	784.2
17.5°	841.7	837.1	831.6	824.9	818.2	810.6	802.7	794.7	785.1	777.5	771.6
20°	844.6	837.9	830.8	821.9	813.1	802.7	792.6	782.1	771.2	763.2	756.5
22.5°	840.8	832.9	824.1	814.8	803.1	791.8	780.0	767.9	758.2	747.3	741.0
25°	830.3	820.7	811.1	800.1	788.8	776.2	763.7	751.1	739.3	733.5	725.5
27.5°	809.0	798.5	788.0	776.7	763.7	751.1	738.1	725.9	715.9	707.9	703.3
30°	771.2	759.0	746.9	734.7	723.4	710.4	698.2	688.2	678.1	671.8	667.2
32.5°	713.3	702.4	690.3	678.5	668.1	657.1	647.1	638.3	631.1	626.9	623.6
35°	635.3	624.4	615.2	606.8	598.0	593.4	587.1	582.1	579.1	577.5	577.0
37.5°	537.2	530.9	528.0	526.3	524.6	523.4	524.2	526.3	528.0	530.9	534.3
40°	432.4	437.8	439.5	445.4	450.8	457.9	465.9	475.1	482.7	492.3	499.0
42.5°	336.8	346.8	358.6	371.1	384.6	397.6	413.5	428.2	441.6	453.7	464.2
45°	258.7	274.3	291.9	309.9	327.9	346.8	366.1	384.1	400.1	413.1	424.0
47.5°	201.7	218.9	241.6	263.8	285.6	307.8	329.2	348.1	361.5	374.1	383.7
50°	159.8	179.5	204.2	229.8	253.7	277.2	299.8	317.5	330.9	340.9	348.1
52.5°	123.7	147.2	172.4	199.2	224.8	250.4	271.3	287.7	298.6	307.4	312.8
55°	92.3	115.3	142.2	169.8	195.8	220.6	240.3	254.6	264.2	269.2	272.2
57.5°	66.7	87.7	114.5	142.2	165.6	189.1	205.1	218.1	223.5	226.5	227.7
60°	48.6	67.9	91.8	115.7	138.0	156.8	170.7	179.5	183.7	185.4	184.9
62.5°	35.6	52.4	73.0	93.1	111.1	126.6	137.6	143.4	145.5	146.4	145.1
65°	27.3	40.3	57.9	73.4	87.2	98.5	106.5	110.3	111.5	111.1	110.3
67.5°	20.1	30.2	43.2	54.9	65.0	73.8	78.0	81.4	82.2	80.9	79.7
70°	14.3	22.2	31.5	39.4	47.0	52.0	56.6	57.0	57.0	56.6	55.8
72.5°	10.1	15.5	21.4	26.8	31.5	35.2	36.9	38.2	37.7	37.3	36.5
75°	6.7	9.6	15.5	16.8	21.0	22.2	23.9	23.9	24.3	23.1	23.1
77.5°	4.2	6.7	9.2	10.9	12.6	14.3	15.1	15.1	15.5	15.1	15.1
80°	2.5	4.2	5.0	7.6	7.6	8.8	9.2	9.6	8.8	10.1	8.8
82.5°	1.7	2.5	3.8	3.8	4.6	5.4	5.4	5.9	5.9	5.4	5.4
85°	1.3	1.7	2.1	2.5	2.5	2.9	2.5	2.5	2.9	3.4	2.9
87.5°	0.4	0.8	0.4	0.8	0.8	1.7	1.3	1.3	1.3	1.7	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):**

	165°	170°	175°	180°
0°	790.1	790.1	790.1	790.1
2.5°	790.9	791.3	790.9	790.9
5°	794.7	794.3	794.7	793.9
7.5°	797.6	797.6	797.2	797.2
10°	797.6	796.0	796.0	796.0
12.5°	791.3	789.2	788.0	787.1
15°	780.4	776.7	775.0	774.6
17.5°	766.2	762.8	760.7	759.5
20°	749.8	746.5	744.0	744.4
22.5°	735.6	731.8	730.1	729.3
25°	721.3	716.7	715.4	714.6
27.5°	698.2	695.7	694.5	693.2
30°	663.0	661.8	659.7	662.6
32.5°	622.3	620.2	618.6	619.8
35°	577.5	576.2	577.5	576.6
37.5°	536.4	537.6	539.3	540.1
40°	504.1	508.7	510.4	511.2
42.5°	471.8	477.2	480.6	482.7
45°	431.9	437.4	441.2	443.7
47.5°	390.8	395.5	399.2	398.8
50°	353.5	356.0	357.7	359.4
52.5°	315.8	315.8	316.2	316.2
55°	273.0	272.2	271.7	272.2
57.5°	226.0	225.2	224.8	223.5
60°	183.3	180.8	179.1	179.1
62.5°	143.4	140.5	139.2	138.8
65°	107.8	107.4	104.8	104.4
67.5°	78.0	76.3	74.6	75.1
70°	54.9	52.4	52.4	51.6
72.5°	35.6	34.4	34.0	34.0
75°	22.2	22.2	21.4	23.1
77.5°	14.7	14.7	14.3	14.7
80°	8.8	8.8	8.8	8.4
82.5°	5.4	5.9	5.4	5.4
85°	2.9	3.4	2.5	3.8
87.5°	1.7	2.1	1.7	2.1
90°	0.0	0.0	0.0	0.0

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