

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: P246031

Luminaire Tested: **LSR8B15D010 EC8B15827 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246031  
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 EC8B15827 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1436.0 lumens  
Efficiency: N/A  
Efficacy: 99.7 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

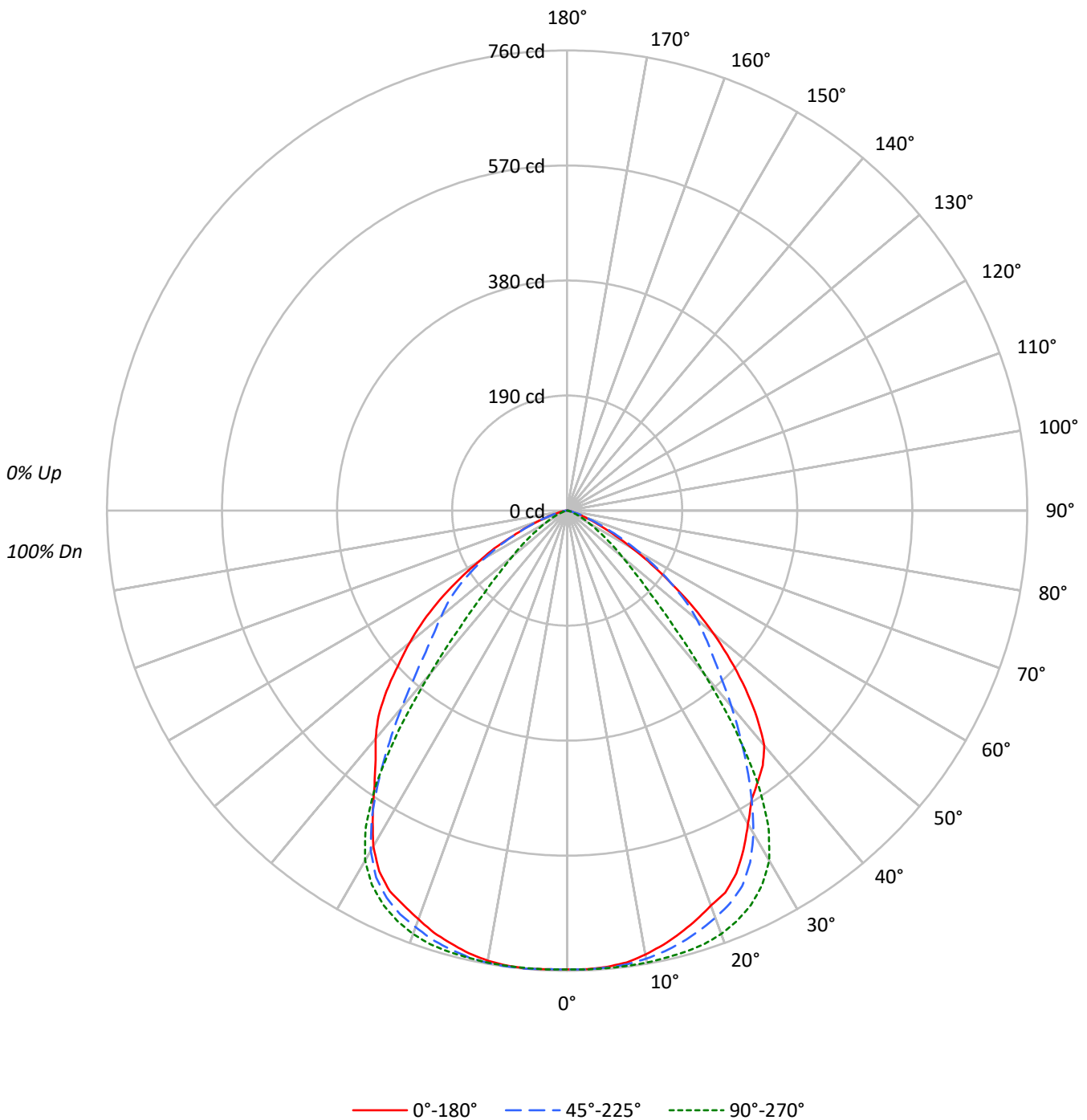
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	90°	180°
0°	23365	23365	23365
5°	23414	23479	23503
10°	23315	23738	23634
15°	23059	24084	23630
20°	22780	24421	23568
25°	22487	24450	23592
30°	21271	23764	22792
35°	20637	20652	20866
40°	20381	14210	19809
45°	18163	8530	18407
50°	15102	5675	16272
55°	11328	3914	13795
60°	7672	2609	10410
65°	4626	1693	7151
70°	2570	920	4400
75°	1168	393	2276
80°	1012	426	1580
85°	1168	566	1592



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.3	5.0
10°-20°	210.0	14.6
20°-30°	318.7	22.2
30°-40°	334.8	23.3
40°-50°	251.0	17.5
50°-60°	161.0	11.2
60°-70°	68.9	4.8
70°-80°	16.3	1.1
80°-90°	3.0	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°	601.0	41.9
0°-40°	935.8	65.2
0°-60°	1347.8	93.9
0°-90°	1436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1436.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	758	758	758	758	758	
5°	756	758	758	760	759	72
15°	722	737	754	750	740	204
25°	661	684	719	706	693	302
35°	548	518	549	542	554	344
45°	416	340	196	331	422	319
55°	211	211	73	220	257	191
65°	63	75	23	96	98	68
75°	10	11	3	20	19	14
85°	3	2	2	3	4	3
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°	757.7	757.7	757.7	757.7	757.7	757.7	757.7	757.7	757.7	757.7	757.7
2.5°	758.1	758.9	758.5	758.5	758.1	758.5	758.5	759.3	759.3	758.5	758.1
5°	756.4	757.3	757.3	756.4	756.4	758.5	757.3	758.1	758.1	757.7	757.7
7.5°	752.8	752.8	754.4	753.2	753.2	754.4	754.0	754.8	755.6	756.0	756.0
10°	744.6	745.5	745.9	745.9	746.3	747.5	748.3	749.9	750.7	751.6	752.0
12.5°	734.5	735.7	736.1	735.7	736.9	738.5	740.6	742.6	743.8	745.5	746.7
15°	722.3	722.3	723.1	724.3	725.1	727.6	729.6	732.0	735.3	737.3	739.4
17.5°	708.9	709.7	710.9	710.9	712.5	716.6	717.8	721.5	725.1	727.2	731.2
20°	694.2	695.0	696.3	697.1	699.1	702.4	704.8	708.0	712.1	715.8	719.8
22.5°	682.8	681.2	682.0	682.8	684.9	687.7	690.6	694.6	698.7	702.4	706.4
25°	660.9	661.3	662.5	663.3	665.8	668.2	671.4	676.3	680.0	684.1	688.5
27.5°	631.2	631.6	633.6	633.6	635.7	639.7	641.8	645.8	650.7	654.8	660.1
30°	597.4	598.2	598.2	599.9	601.1	603.1	605.2	609.2	611.7	615.3	622.6
32.5°	566.5	567.3	566.9	566.5	565.3	564.9	564.5	565.3	566.1	567.3	570.2
35°	548.2	546.2	544.6	541.7	538.5	534.4	530.7	525.9	521.4	517.7	513.7
37.5°	530.7	530.3	527.9	523.8	517.3	510.0	501.5	490.9	480.3	468.9	457.9
40°	506.3	505.1	503.1	497.4	490.1	481.1	469.7	456.7	439.6	422.1	404.3
42.5°	464.8	465.3	462.8	458.3	451.4	442.9	431.1	416.9	398.6	377.8	354.6
45°	416.5	416.5	415.6	412.0	407.1	400.2	391.2	379.4	361.6	340.4	315.6
47.5°	366.0	366.4	365.2	364.4	362.4	357.9	351.4	342.4	329.8	309.5	284.7
50°	314.8	314.8	316.8	316.4	316.4	314.8	311.9	306.6	295.7	279.4	256.2
52.5°	263.5	264.3	265.6	267.2	269.2	272.5	269.2	266.8	259.9	247.3	227.3
55°	210.7	211.5	213.5	216.4	218.8	222.1	222.9	222.9	219.2	210.7	195.6
57.5°	165.5	164.3	165.9	168.4	171.6	174.9	177.3	180.2	179.8	174.1	161.9
60°	124.4	124.9	126.1	128.5	131.0	133.8	137.1	139.5	140.7	137.9	130.1
62.5°	90.7	90.7	92.3	94.8	96.0	100.0	102.1	103.3	104.5	104.1	99.2
65°	63.4	64.3	65.1	66.3	67.5	69.9	71.2	73.6	74.4	74.8	71.2
67.5°	44.7	43.5	44.3	45.1	46.4	48.0	50.4	50.4	51.6	51.6	49.2
70°	28.5	28.5	28.9	30.1	30.9	31.3	32.1	32.9	34.2	33.8	33.8
72.5°	19.1	18.7	19.1	19.5	19.9	21.1	21.1	21.6	22.4	22.8	21.1
75°	9.8	10.2	11.0	10.6	11.8	11.0	11.4	12.6	12.2	11.4	11.4
77.5°	8.1	8.1	8.1	7.7	8.5	8.5	8.1	8.9	8.5	8.5	8.1
80°	5.7	6.1	5.7	5.3	5.7	5.3	5.3	5.3	5.3	5.3	4.9
82.5°	4.5	3.7	4.1	3.7	4.1	4.1	3.7	3.3	3.3	3.7	3.3
85°	3.3	2.4	2.8	2.8	2.4	2.4	2.4	2.4	2.4	2.0	2.0
87.5°	2.0	1.2	1.2	1.2	1.6	1.6	1.6	1.2	1.6	1.6	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°	757.7	757.7	757.7	757.7	757.7	757.7	757.7	757.7	757.7	757.7	757.7
2.5°	758.9	758.5	759.3	758.9	758.9	758.5	758.9	758.5	759.3	757.7	758.1
5°	758.9	758.1	758.5	758.9	759.3	758.5	758.5	758.5	759.3	758.5	758.9
7.5°	757.3	756.8	758.1	758.9	758.5	758.1	758.9	758.5	759.3	758.9	759.7
10°	754.0	754.4	755.2	756.4	756.8	757.3	758.1	758.1	759.3	757.7	758.5
12.5°	749.1	750.7	752.8	753.6	755.2	755.2	756.0	756.4	757.3	756.8	758.1
15°	743.0	745.1	747.5	749.5	751.6	752.8	754.0	754.4	755.6	754.4	754.8
17.5°	735.7	738.1	741.8	744.2	747.5	748.7	750.3	751.2	752.4	751.6	752.0
20°	725.5	728.4	732.4	736.1	738.1	741.0	743.0	744.2	745.1	744.2	744.6
22.5°	711.3	715.4	720.7	723.5	727.6	730.0	730.4	733.3	735.3	733.3	734.1
25°	694.6	698.7	702.8	708.9	712.5	715.4	718.2	718.6	720.7	720.2	719.8
27.5°	667.0	672.3	679.2	684.1	688.9	693.4	696.7	697.5	699.5	698.7	699.1
30°	629.1	634.8	641.4	649.1	656.0	660.5	664.5	667.4	669.4	668.2	667.8
32.5°	575.5	581.2	588.1	595.8	603.9	610.4	615.3	619.0	621.4	620.6	618.6
35°	514.1	515.7	520.2	526.3	533.2	540.1	544.6	548.6	551.5	552.3	552.3
37.5°	451.0	445.7	442.5	442.5	446.5	449.4	453.5	455.9	460.4	462.0	463.2
40°	390.0	377.8	366.4	357.9	352.2	351.8	351.8	353.0	357.1	362.4	367.2
42.5°	335.5	316.0	298.5	282.6	271.3	264.8	261.9	262.3	265.6	270.4	278.6
45°	292.0	267.6	245.6	226.5	211.1	200.9	196.0	195.6	198.1	203.7	212.7
47.5°	258.2	232.2	207.4	185.4	168.8	157.8	152.1	150.5	152.1	157.4	168.0
50°	230.2	203.3	177.7	154.9	137.1	125.7	120.4	118.3	120.4	124.9	135.4
52.5°	204.2	176.5	152.5	130.5	111.4	101.7	96.0	94.8	96.0	101.3	109.8
55°	174.1	150.5	126.9	104.9	88.3	78.5	74.0	72.8	74.0	78.9	87.8
57.5°	144.4	124.0	103.3	83.4	69.1	60.6	56.5	54.9	57.7	61.0	71.6
60°	116.7	100.5	83.0	65.5	53.7	46.0	42.7	42.3	43.1	47.2	54.5
62.5°	91.5	78.1	64.3	50.0	40.3	37.0	32.9	32.5	33.3	35.8	41.5
65°	65.9	57.3	46.8	36.6	28.9	24.4	22.8	23.2	24.0	25.6	30.9
67.5°	46.0	39.9	32.5	25.6	19.9	17.9	16.3	15.9	16.3	19.1	22.0
70°	30.9	27.2	22.0	19.5	13.8	11.0	11.4	10.2	11.8	11.8	14.2
72.5°	20.3	17.9	14.6	11.4	9.8	7.7	7.7	7.3	8.1	8.5	10.6
75°	10.6	8.1	8.1	5.7	4.1	2.0	3.7	3.3	2.8	3.3	4.1
77.5°	7.3	6.1	5.7	4.5	4.1	3.3	3.3	3.3	3.3	3.7	4.1
80°	4.5	4.5	3.3	2.8	2.4	2.0	2.4	2.4	2.4	2.4	2.8
82.5°	2.8	2.4	2.4	2.0	2.0	1.6	1.6	1.6	1.6	1.6	2.4
85°	2.4	1.6	1.6	1.2	1.6	2.8	1.2	1.6	1.6	1.6	1.2
87.5°	0.8	1.2	1.2	1.2	0.8	0.4	0.8	1.2	1.2	2.0	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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	757.7	757.7	757.7	757.7	757.7	757.7	757.7	757.7	757.7	757.7	757.7
2.5°	758.9	759.3	759.3	758.9	758.9	758.1	759.7	758.5	758.9	760.5	759.3
5°	759.7	760.1	760.1	759.7	759.7	759.7	760.1	760.1	759.7	759.3	760.1
7.5°	761.3	760.9	760.9	760.1	760.1	759.3	760.1	758.9	759.7	758.9	760.1
10°	759.3	759.7	759.3	758.9	758.9	758.5	758.5	757.3	757.7	756.4	757.3
12.5°	758.1	757.7	757.7	756.8	756.0	755.2	754.8	753.6	753.6	750.7	752.0
15°	754.8	755.2	754.0	752.4	751.6	749.5	748.7	747.1	745.5	743.4	743.8
17.5°	752.0	750.7	749.1	747.5	744.2	742.6	741.0	738.5	737.7	735.3	734.5
20°	743.4	742.6	740.6	737.7	735.7	732.0	730.4	728.0	725.9	723.5	722.3
22.5°	732.4	731.6	729.2	726.3	723.1	721.5	719.8	715.4	713.3	710.9	710.5
25°	718.6	717.4	715.0	711.7	710.1	705.6	704.0	700.7	699.9	697.5	697.1
27.5°	697.5	695.8	693.0	688.9	686.1	683.2	681.6	679.2	678.4	675.9	675.5
30°	665.8	663.7	658.0	656.4	651.5	648.7	648.7	645.4	645.8	644.2	644.2
32.5°	615.7	612.5	608.0	604.7	601.5	599.9	599.9	598.6	599.5	599.5	600.3
35°	549.4	545.0	542.5	540.5	540.5	542.1	547.0	548.2	550.7	552.7	554.3
37.5°	464.4	464.0	466.9	469.3	475.4	482.3	490.9	498.2	505.1	510.0	514.9
40°	372.5	382.7	390.8	402.2	411.6	425.0	440.4	453.1	464.8	473.4	482.3
42.5°	290.8	303.8	320.9	337.5	354.2	372.5	392.9	410.4	425.8	437.6	447.0
45°	226.5	244.4	265.2	286.3	307.9	330.6	351.8	369.7	386.0	398.2	407.5
47.5°	182.6	202.1	225.7	248.9	273.3	297.3	320.9	336.3	349.7	359.5	368.1
50°	150.9	171.6	196.4	222.9	247.3	271.3	291.6	306.6	317.6	326.2	331.4
52.5°	126.1	148.0	174.5	200.9	225.3	247.3	265.6	277.0	285.9	292.0	296.9
55°	104.1	125.3	150.1	174.9	198.9	219.6	234.7	243.2	250.1	253.8	256.6
57.5°	85.0	104.5	127.3	150.1	170.8	187.9	199.7	208.2	211.5	214.3	213.9
60°	66.7	85.0	105.7	125.3	143.2	157.0	165.5	170.4	172.8	174.1	173.2
62.5°	52.5	69.1	85.0	102.1	115.1	126.9	135.0	135.0	136.2	136.6	137.9
65°	39.0	51.6	65.5	78.1	88.7	96.4	100.9	102.1	103.7	103.3	102.5
67.5°	28.9	38.2	48.4	57.7	65.1	69.9	73.2	76.1	75.6	74.8	74.4
70°	19.9	26.0	35.0	40.7	46.0	50.8	51.6	52.1	52.5	52.9	52.1
72.5°	13.8	18.3	23.2	28.1	31.3	33.3	35.4	35.8	35.8	35.8	35.4
75°	6.9	9.4	13.8	15.9	18.7	19.5	21.1	21.1	22.4	20.7	20.3
77.5°	6.1	7.3	9.8	11.4	12.6	13.8	14.2	15.5	15.0	14.2	14.6
80°	3.7	4.5	6.1	6.9	8.5	8.9	9.4	9.8	9.4	9.8	9.8
82.5°	2.8	3.3	4.1	4.1	5.3	5.3	5.7	5.7	6.1	6.1	6.1
85°	1.6	2.8	2.4	4.9	3.3	3.3	4.1	4.9	4.1	4.1	4.9
87.5°	1.6	1.6	1.2	1.6	1.6	1.6	2.0	2.4	2.4	2.8	2.4
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):**

	165°	170°	175°	180°
0°	757.7	757.7	757.7	757.7
2.5°	758.9	759.7	758.5	758.1
5°	760.1	760.1	759.3	759.3
7.5°	760.1	760.1	758.9	758.1
10°	756.8	756.8	755.6	754.8
12.5°	750.7	750.7	750.3	749.1
15°	743.0	743.0	741.4	740.2
17.5°	732.4	733.3	731.2	731.2
20°	721.1	720.7	719.0	718.2
22.5°	709.3	708.5	708.0	705.6
25°	696.7	695.8	694.6	693.4
27.5°	675.1	674.7	673.5	671.9
30°	642.2	641.8	640.1	640.1
32.5°	599.5	599.1	597.4	597.8
35°	555.1	556.8	555.9	554.3
37.5°	518.1	519.3	520.2	519.3
40°	487.2	490.9	491.3	492.1
42.5°	454.3	459.2	460.8	461.6
45°	414.8	419.3	423.0	422.1
47.5°	374.6	377.8	381.1	378.6
50°	335.9	338.0	339.2	339.2
52.5°	299.3	299.3	298.9	299.3
55°	257.4	257.4	255.8	256.6
57.5°	213.5	214.3	213.1	211.1
60°	172.8	170.8	170.0	168.8
62.5°	134.6	134.6	131.8	135.4
65°	100.9	99.6	98.4	98.0
67.5°	73.2	72.8	71.6	71.2
70°	51.6	50.0	49.6	48.8
72.5°	34.6	34.6	33.8	33.8
75°	21.1	19.1	18.7	19.1
77.5°	14.6	14.2	14.2	13.8
80°	9.8	9.4	10.2	8.9
82.5°	6.1	6.5	6.1	6.5
85°	4.1	4.9	4.5	4.5
87.5°	2.4	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0

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