

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: P245029

Luminaire Tested: **LSR8B15D010 EC8B15830 8LBDW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245029  
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 8LBDW0WMH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1498.0 lumens  
Efficiency: N/A  
Efficacy: 104.0 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

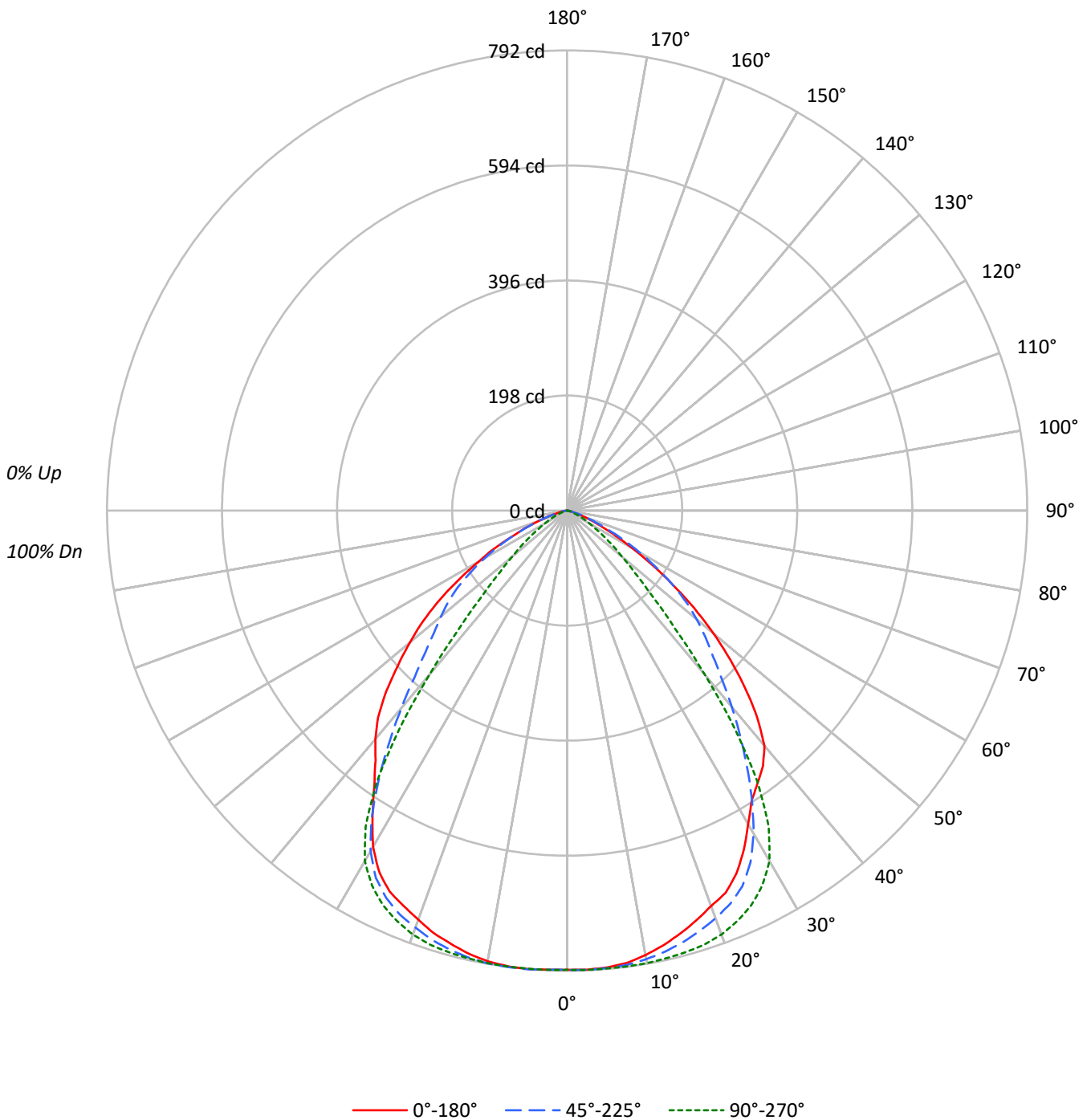
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	24373	24373	24373
5°	24426	24491	24519
10°	24323	24762	24655
15°	24055	25124	24649
20°	23765	25478	24585
25°	23456	25508	24610
30°	22190	24789	23778
35°	21529	21544	21770
40°	21262	14822	20662
45°	18944	8901	19205
50°	15754	5925	16973
55°	11817	4080	14392
60°	8005	2720	10861
65°	4830	1766	7457
70°	2678	956	4589
75°	1215	405	2371
80°	1048	444	1651
85°	1203	601	1663



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.4	5.0
10°-20°	219.1	14.6
20°-30°	332.5	22.2
30°-40°	349.2	23.3
40°-50°	261.8	17.5
50°-60°	168.0	11.2
60°-70°	71.9	4.8
70°-80°	17.0	1.1
80°-90°	3.2	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°	627.0	41.9
0°-40°	976.2	65.2
0°-60°	1406.0	93.9
0°-90°	1498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1498.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	790	790	790	790	790	
5°	789	790	791	792	792	75
15°	754	769	787	782	772	213
25°	689	714	750	736	723	315
35°	572	540	572	566	578	359
45°	434	355	204	345	440	333
55°	220	220	76	229	268	199
65°	66	78	24	100	102	71
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°	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4
2.5°	790.8	791.7	791.2	791.2	790.8	791.2	791.2	792.1	792.1	791.2	790.8
5°	789.1	789.9	789.9	789.1	789.1	791.2	789.9	790.8	790.8	790.4	790.4
7.5°	785.3	785.3	787.0	785.7	785.7	787.0	786.6	787.4	788.3	788.7	788.7
10°	776.8	777.6	778.1	778.1	778.5	779.8	780.6	782.3	783.2	784.0	784.4
12.5°	766.2	767.5	767.9	767.5	768.7	770.4	772.6	774.7	776.0	777.6	778.9
15°	753.5	753.5	754.3	755.6	756.4	759.0	761.1	763.6	767.0	769.2	771.3
17.5°	739.5	740.3	741.6	741.6	743.3	747.5	748.8	752.6	756.4	758.6	762.8
20°	724.2	725.0	726.3	727.2	729.3	732.7	735.2	738.6	742.9	746.7	750.9
22.5°	712.3	710.6	711.5	712.3	714.4	717.4	720.4	724.6	728.9	732.7	736.9
25°	689.4	689.8	691.1	691.9	694.5	697.0	700.4	705.5	709.3	713.6	718.2
27.5°	658.4	658.9	661.0	661.0	663.1	667.3	669.5	673.7	678.8	683.0	688.6
30°	623.2	624.1	624.1	625.8	627.0	629.2	631.3	635.5	638.1	641.9	649.5
32.5°	591.0	591.8	591.4	591.0	589.7	589.3	588.9	589.7	590.6	591.8	594.8
35°	571.9	569.8	568.1	565.1	561.7	557.5	553.6	548.6	543.9	540.1	535.8
37.5°	553.6	553.2	550.7	546.4	539.6	532.0	523.1	512.1	501.0	489.2	477.7
40°	528.2	526.9	524.8	518.9	511.2	501.9	490.0	476.4	458.6	440.4	421.7
42.5°	484.9	485.3	482.8	478.1	470.9	462.0	449.7	434.9	415.8	394.1	369.9
45°	434.4	434.4	433.6	429.8	424.7	417.5	408.1	395.8	377.2	355.1	329.2
47.5°	381.8	382.2	381.0	380.1	378.0	373.3	366.6	357.2	344.1	322.8	297.0
50°	328.4	328.4	330.5	330.1	330.1	328.4	325.4	319.9	308.4	291.5	267.3
52.5°	274.9	275.8	277.0	278.7	280.8	284.2	280.8	278.3	271.1	257.9	237.2
55°	219.8	220.6	222.7	225.7	228.3	231.6	232.5	232.5	228.7	219.8	204.1
57.5°	172.7	171.4	173.1	175.6	179.0	182.4	185.0	187.9	187.5	181.6	168.9
60°	129.8	130.2	131.5	134.1	136.6	139.6	143.0	145.5	146.8	143.8	135.8
62.5°	94.6	94.6	96.3	98.8	100.1	104.4	106.5	107.8	109.0	108.6	103.5
65°	66.2	67.0	67.9	69.2	70.4	73.0	74.2	76.8	77.6	78.1	74.2
67.5°	46.7	45.4	46.2	47.1	48.4	50.1	52.6	52.6	53.9	53.9	51.3
70°	29.7	29.7	30.1	31.4	32.2	32.7	33.5	34.4	35.6	35.2	35.2
72.5°	19.9	19.5	19.9	20.4	20.8	22.1	22.1	22.5	23.3	23.8	22.1
75°	10.2	10.6	11.5	11.0	12.3	11.5	11.9	13.2	12.7	11.9	11.9
77.5°	8.5	8.5	8.5	8.1	8.9	8.9	8.5	9.3	8.9	8.9	8.5
80°	5.9	6.4	5.9	5.5	5.9	5.5	5.5	5.5	5.5	5.5	5.1
82.5°	4.7	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	0.9
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°	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4
2.5°	791.7	791.2	792.1	791.7	791.7	791.2	791.7	791.2	792.1	790.4	790.8
5°	791.7	790.8	791.2	791.7	792.1	791.2	791.2	791.2	792.1	791.2	791.7
7.5°	789.9	789.5	790.8	791.7	791.2	790.8	791.7	791.2	792.1	791.7	792.5
10°	786.6	787.0	787.8	789.1	789.5	789.9	790.8	790.8	792.1	790.4	791.2
12.5°	781.5	783.2	785.3	786.1	787.8	787.8	788.7	789.1	789.9	789.5	790.8
15°	775.1	777.2	779.8	781.9	784.0	785.3	786.6	787.0	788.3	787.0	787.4
17.5°	767.5	770.0	773.8	776.4	779.8	781.0	782.7	783.6	784.9	784.0	784.4
20°	756.9	759.8	764.1	767.9	770.0	773.0	775.1	776.4	777.2	776.4	776.8
22.5°	742.0	746.3	751.8	754.7	759.0	761.5	762.0	764.9	767.0	764.9	765.8
25°	724.6	728.9	733.1	739.5	743.3	746.3	749.2	749.7	751.8	751.3	750.9
27.5°	695.8	701.3	708.5	713.6	718.7	723.3	726.7	727.6	729.7	728.9	729.3
30°	656.3	662.3	669.0	677.1	684.3	689.0	693.2	696.2	698.3	697.0	696.6
32.5°	600.3	606.3	613.5	621.5	630.0	636.8	641.9	645.7	648.3	647.4	645.3
35°	536.3	537.9	542.6	549.0	556.2	563.4	568.1	572.3	575.3	576.1	576.1
37.5°	470.5	465.0	461.6	461.6	465.8	468.8	473.0	475.6	480.3	481.9	483.2
40°	406.9	394.1	382.2	373.3	367.4	367.0	367.0	368.2	372.5	378.0	383.1
42.5°	350.0	329.6	311.4	294.9	283.0	276.2	273.2	273.6	277.0	282.1	290.6
45°	304.6	279.2	256.2	236.3	220.2	209.6	204.5	204.1	206.6	212.5	221.9
47.5°	269.4	242.2	216.4	193.5	176.1	164.6	158.7	157.0	158.7	164.2	175.2
50°	240.1	212.1	185.4	161.6	143.0	131.1	125.6	123.5	125.6	130.2	141.3
52.5°	213.0	184.1	159.1	136.2	116.2	106.1	100.1	98.8	100.1	105.6	114.6
55°	181.6	157.0	132.4	109.5	92.1	81.9	77.2	75.9	77.2	82.3	91.6
57.5°	150.6	129.4	107.8	87.0	72.1	63.2	59.0	57.3	60.2	63.6	74.7
60°	121.8	104.8	86.5	68.3	56.0	47.9	44.5	44.1	45.0	49.2	56.8
62.5°	95.5	81.5	67.0	52.2	42.0	38.6	34.4	33.9	34.8	37.3	43.3
65°	68.7	59.8	48.8	38.2	30.1	25.5	23.8	24.2	25.0	26.7	32.2
67.5°	47.9	41.6	33.9	26.7	20.8	18.7	17.0	16.5	17.0	19.9	22.9
70°	32.2	28.4	22.9	20.4	14.4	11.5	11.9	10.6	12.3	12.3	14.8
72.5°	21.2	18.7	15.3	11.9	10.2	8.1	8.1	7.6	8.5	8.9	11.0
75°	11.0	8.5	8.5	5.9	4.2	2.1	3.8	3.4	3.0	3.4	4.2
77.5°	7.6	6.4	5.9	4.7	4.2	3.4	3.4	3.4	3.4	3.8	4.2
80°	4.7	4.7	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°	0.9	1.3	1.3	1.3	0.9	0.4	0.9	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°	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4	790.4
2.5°	791.7	792.1	792.1	791.7	791.7	790.8	792.5	791.2	791.7	793.3	792.1
5°	792.5	792.9	792.9	792.5	792.5	792.5	792.9	792.9	792.5	792.1	792.9
7.5°	794.2	793.8	793.8	792.9	792.9	792.1	792.9	791.7	792.5	791.7	792.9
10°	792.1	792.5	792.1	791.7	791.7	791.2	791.2	789.9	790.4	789.1	789.9
12.5°	790.8	790.4	790.4	789.5	788.7	787.8	787.4	786.1	786.1	783.2	784.4
15°	787.4	787.8	786.6	784.9	784.0	781.9	781.0	779.3	777.6	775.5	776.0
17.5°	784.4	783.2	781.5	779.8	776.4	774.7	773.0	770.4	769.6	767.0	766.2
20°	775.5	774.7	772.6	769.6	767.5	763.6	762.0	759.4	757.3	754.7	753.5
22.5°	764.1	763.2	760.7	757.7	754.3	752.6	750.9	746.3	744.1	741.6	741.2
25°	749.7	748.4	745.8	742.4	740.7	736.1	734.4	731.0	730.1	727.6	727.2
27.5°	727.6	725.9	722.9	718.7	715.7	712.7	711.0	708.5	707.7	705.1	704.7
30°	694.5	692.4	686.4	684.7	679.6	676.7	676.7	673.3	673.7	672.0	672.0
32.5°	642.3	638.9	634.2	630.9	627.5	625.8	625.8	624.5	625.3	625.3	626.2
35°	573.2	568.5	565.9	563.8	563.8	565.5	570.6	571.9	574.4	576.6	578.3
37.5°	484.5	484.1	487.0	489.6	495.9	503.2	512.1	519.7	526.9	532.0	537.1
40°	388.6	399.2	407.7	419.6	429.3	443.3	459.5	472.6	484.9	493.8	503.2
42.5°	303.3	316.9	334.7	352.1	369.5	388.6	409.8	428.1	444.2	456.5	466.2
45°	236.3	255.0	276.6	298.7	321.2	344.9	367.0	385.6	402.6	415.3	425.1
47.5°	190.5	210.9	235.5	259.6	285.1	310.1	334.7	350.9	364.8	375.0	383.9
50°	157.4	179.0	204.9	232.5	257.9	283.0	304.2	319.9	331.3	340.2	345.8
52.5°	131.5	154.4	182.0	209.6	235.0	257.9	277.0	288.9	298.2	304.6	309.7
55°	108.6	130.7	156.6	182.4	207.5	229.1	244.8	253.7	260.9	264.7	267.7
57.5°	88.7	109.0	132.8	156.6	178.2	196.0	208.3	217.2	220.6	223.6	223.2
60°	69.6	88.7	110.3	130.7	149.3	163.8	172.7	177.8	180.3	181.6	180.7
62.5°	54.7	72.1	88.7	106.5	120.1	132.4	140.9	140.9	142.1	142.5	143.8
65°	40.7	53.9	68.3	81.5	92.5	100.5	105.2	106.5	108.2	107.8	106.9
67.5°	30.1	39.9	50.5	60.2	67.9	73.0	76.4	79.3	78.9	78.1	77.6
70°	20.8	27.2	36.5	42.4	47.9	53.0	53.9	54.3	54.7	55.2	54.3
72.5°	14.4	19.1	24.2	29.3	32.7	34.8	36.9	37.3	37.3	37.3	36.9
75°	7.2	9.8	14.4	16.5	19.5	20.4	22.1	22.1	23.3	21.6	21.2
77.5°	6.4	7.6	10.2	11.9	13.2	14.4	14.8	16.1	15.7	14.8	15.3
80°	3.8	4.7	6.4	7.2	8.9	9.3	9.8	10.2	9.8	10.2	10.2
82.5°	3.0	3.4	4.2	4.2	5.5	5.5	5.9	5.9	6.4	6.4	6.4
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°	790.4	790.4	790.4	790.4
2.5°	791.7	792.5	791.2	790.8
5°	792.9	792.9	792.1	792.1
7.5°	792.9	792.9	791.7	790.8
10°	789.5	789.5	788.3	787.4
12.5°	783.2	783.2	782.7	781.5
15°	775.1	775.1	773.4	772.1
17.5°	764.1	764.9	762.8	762.8
20°	752.2	751.8	750.1	749.2
22.5°	739.9	739.0	738.6	736.1
25°	726.7	725.9	724.6	723.3
27.5°	704.3	703.8	702.6	700.9
30°	669.9	669.5	667.8	667.8
32.5°	625.3	624.9	623.2	623.6
35°	579.1	580.8	579.9	578.3
37.5°	540.5	541.8	542.6	541.8
40°	508.2	512.1	512.5	513.3
42.5°	473.9	479.0	480.7	481.5
45°	432.7	437.4	441.2	440.4
47.5°	390.7	394.1	397.5	395.0
50°	350.4	352.5	353.8	353.8
52.5°	312.3	312.3	311.8	312.3
55°	268.5	268.5	266.9	267.7
57.5°	222.7	223.6	222.3	220.2
60°	180.3	178.2	177.3	176.1
62.5°	140.4	140.4	137.5	141.3
65°	105.2	103.9	102.7	102.2
67.5°	76.4	75.9	74.7	74.2
70°	53.9	52.2	51.8	50.9
72.5°	36.1	36.1	35.2	35.2
75°	22.1	19.9	19.5	19.9
77.5°	15.3	14.8	14.8	14.4
80°	10.2	9.8	10.6	9.3
82.5°	6.4	6.8	6.4	6.8
85°	4.2	5.1	4.7	4.7
87.5°	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0

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