

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: P246037

Luminaire Tested: **LSR8B15D010 EC8B15830 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246037  
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 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1472.0 lumens  
Efficiency: N/A  
Efficacy: 102.2 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

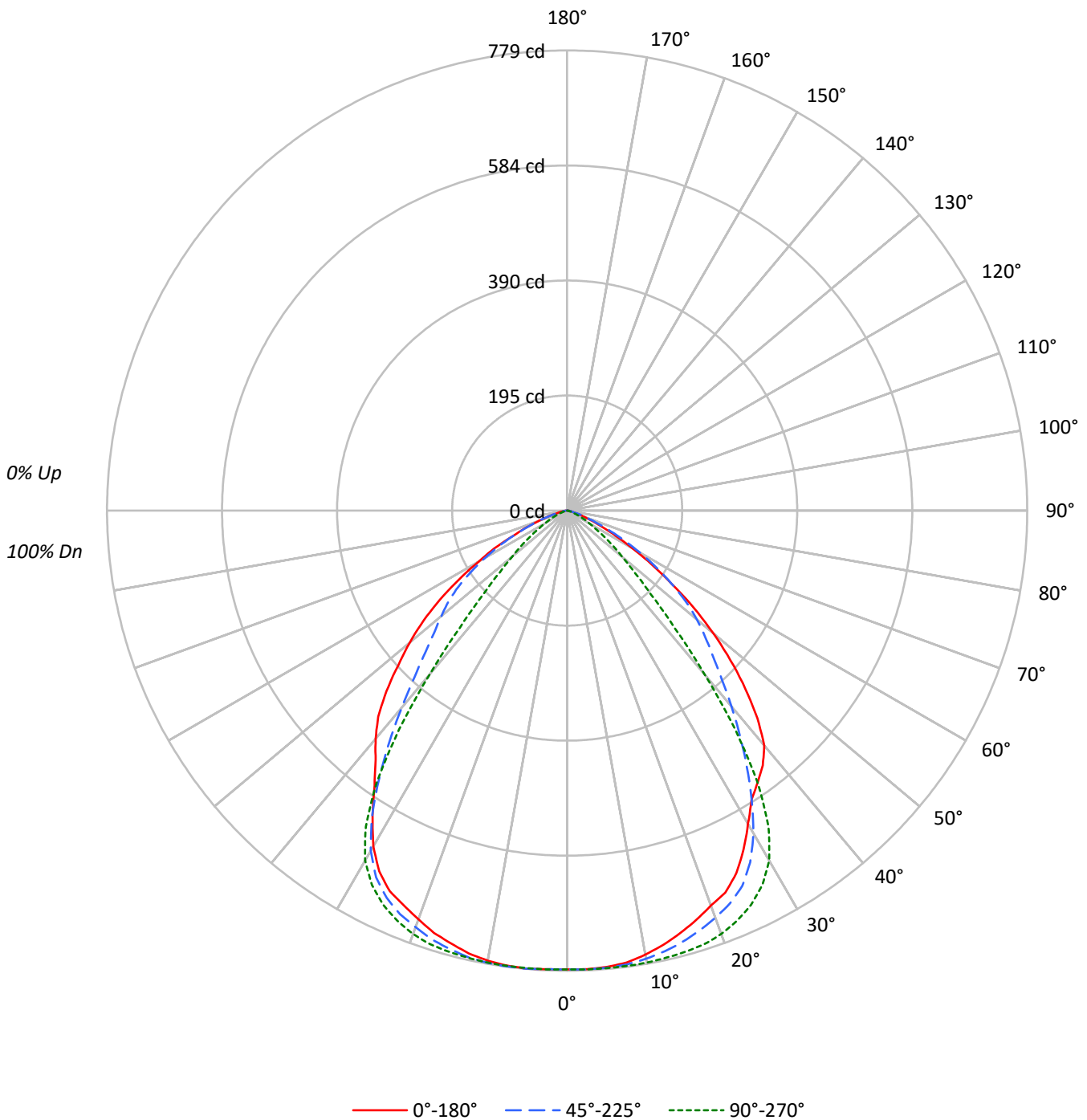
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	51	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°	23951	23951	23951
5°	24002	24067	24092
10°	23900	24333	24226
15°	23637	24687	24221
20°	23351	25035	24159
25°	23048	25062	24184
30°	21806	24359	23365
35°	21156	21171	21389
40°	20892	14568	20304
45°	18617	8744	18870
50°	15481	5819	16680
55°	11607	4011	14145
60°	7869	2677	10669
65°	4743	1737	7333
70°	2633	938	4508
75°	1191	393	2335
80°	1030	444	1634
85°	1168	601	1628



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.1	5.0
10°-20°	215.3	14.6
20°-30°	326.7	22.2
30°-40°	343.2	23.3
40°-50°	257.3	17.5
50°-60°	165.1	11.2
60°-70°	70.6	4.8
70°-80°	16.7	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°	616.1	41.9
0°-40°	959.2	65.2
0°-60°	1381.6	93.9
0°-90°	1472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1472.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	777	777	777	777	777	
5°	775	777	778	779	778	74
15°	740	756	773	768	759	209
25°	677	701	737	723	711	309
35°	562	531	562	556	568	353
45°	427	349	200	339	433	327
55°	216	216	75	225	263	196
65°	65	77	24	99	100	69
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°	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7
2.5°	777.1	777.9	777.5	777.5	777.1	777.5	777.5	778.3	778.3	777.5	777.1
5°	775.4	776.2	776.2	775.4	775.4	777.5	776.2	777.1	777.1	776.7	776.7
7.5°	771.7	771.7	773.3	772.1	772.1	773.3	772.9	773.7	774.6	775.0	775.0
10°	763.3	764.2	764.6	764.6	765.0	766.2	767.1	768.7	769.6	770.4	770.8
12.5°	752.9	754.1	754.6	754.1	755.4	757.1	759.2	761.2	762.5	764.2	765.4
15°	740.4	740.4	741.2	742.5	743.3	745.8	747.9	750.4	753.7	755.8	757.9
17.5°	726.6	727.5	728.7	728.7	730.4	734.5	735.8	739.6	743.3	745.4	749.6
20°	711.6	712.5	713.7	714.5	716.6	720.0	722.5	725.8	730.0	733.7	737.9
22.5°	699.9	698.3	699.1	699.9	702.0	705.0	707.9	712.0	716.2	720.0	724.1
25°	677.4	677.9	679.1	679.9	682.4	684.9	688.3	693.3	697.0	701.2	705.8
27.5°	647.0	647.4	649.5	649.5	651.6	655.8	657.8	662.0	667.0	671.2	676.6
30°	612.4	613.2	613.2	614.9	616.2	618.2	620.3	624.5	627.0	630.7	638.3
32.5°	580.7	581.6	581.1	580.7	579.5	579.1	578.6	579.5	580.3	581.6	584.5
35°	562.0	559.9	558.2	555.3	552.0	547.8	544.0	539.0	534.4	530.7	526.5
37.5°	544.0	543.6	541.1	536.9	530.3	522.8	514.0	503.2	492.3	480.7	469.4
40°	519.0	517.8	515.7	509.9	502.3	493.2	481.5	468.2	450.6	432.7	414.4
42.5°	476.5	476.9	474.4	469.8	462.7	454.0	441.9	427.3	408.6	387.3	363.5
45°	426.9	426.9	426.1	422.3	417.3	410.2	401.0	389.0	370.6	348.9	323.5
47.5°	375.2	375.6	374.4	373.5	371.4	366.9	360.2	351.0	338.1	317.2	291.8
50°	322.7	322.7	324.8	324.3	324.3	322.7	319.8	314.3	303.1	286.4	262.6
52.5°	270.1	271.0	272.2	273.9	276.0	279.3	276.0	273.5	266.4	253.5	233.0
55°	215.9	216.8	218.9	221.8	224.3	227.6	228.5	228.5	224.7	215.9	200.5
57.5°	169.7	168.4	170.1	172.6	175.9	179.3	181.8	184.7	184.3	178.4	165.9
60°	127.6	128.0	129.2	131.7	134.2	137.2	140.5	143.0	144.2	141.3	133.4
62.5°	93.0	93.0	94.6	97.1	98.4	102.6	104.6	105.9	107.1	106.7	101.7
65°	65.0	65.9	66.7	68.0	69.2	71.7	73.0	75.5	76.3	76.7	73.0
67.5°	45.9	44.6	45.4	46.3	47.5	49.2	51.7	51.7	52.9	52.9	50.4
70°	29.2	29.2	29.6	30.8	31.7	32.1	32.9	33.8	35.0	34.6	34.6
72.5°	19.6	19.2	19.6	20.0	20.4	21.7	21.7	22.1	22.9	23.3	21.7
75°	10.0	10.4	11.3	10.8	12.1	11.3	11.7	12.9	12.5	11.7	11.7
77.5°	8.3	8.3	8.3	7.9	8.8	8.8	8.3	9.2	8.8	8.8	8.3
80°	5.8	6.3	5.8	5.4	5.8	5.4	5.4	5.4	5.4	5.4	5.0
82.5°	4.6	3.8	4.2	3.8	4.2	4.2	3.8	3.3	3.3	3.8	3.3
85°	3.3	2.5	2.9	2.9	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°	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7
2.5°	777.9	777.5	778.3	777.9	777.9	777.5	777.9	777.5	778.3	776.7	777.1
5°	777.9	777.1	777.5	777.9	778.3	777.5	777.5	777.5	778.3	777.5	777.9
7.5°	776.2	775.8	777.1	777.9	777.5	777.1	777.9	777.5	778.3	777.9	778.7
10°	772.9	773.3	774.2	775.4	775.8	776.2	777.1	777.1	778.3	776.7	777.5
12.5°	767.9	769.6	771.7	772.5	774.2	774.2	775.0	775.4	776.2	775.8	777.1
15°	761.7	763.7	766.2	768.3	770.4	771.7	772.9	773.3	774.6	773.3	773.7
17.5°	754.1	756.6	760.4	762.9	766.2	767.5	769.1	770.0	771.2	770.4	770.8
20°	743.7	746.6	750.8	754.6	756.6	759.6	761.7	762.9	763.7	762.9	763.3
22.5°	729.1	733.3	738.7	741.6	745.8	748.3	748.7	751.6	753.7	751.6	752.5
25°	712.0	716.2	720.4	726.6	730.4	733.3	736.2	736.6	738.7	738.3	737.9
27.5°	683.7	689.1	696.2	701.2	706.2	710.8	714.1	715.0	717.0	716.2	716.6
30°	644.9	650.8	657.4	665.3	672.4	677.0	681.2	684.1	686.2	684.9	684.5
32.5°	589.9	595.7	602.8	610.7	619.1	625.7	630.7	634.5	637.0	636.2	634.1
35°	526.9	528.6	533.2	539.5	546.5	553.6	558.2	562.4	565.3	566.1	566.1
37.5°	462.3	456.9	453.6	453.6	457.7	460.7	464.8	467.3	471.9	473.6	474.8
40°	399.8	387.3	375.6	366.9	361.0	360.6	360.6	361.9	366.0	371.4	376.4
42.5°	343.9	323.9	306.0	289.7	278.1	271.4	268.5	268.9	272.2	277.2	285.6
45°	299.3	274.3	251.8	232.2	216.4	205.9	200.9	200.5	203.0	208.9	218.0
47.5°	264.7	238.0	212.6	190.1	173.0	161.7	155.9	154.3	155.9	161.3	172.2
50°	236.0	208.4	182.2	158.8	140.5	128.8	123.4	121.3	123.4	128.0	138.8
52.5°	209.3	180.9	156.3	133.8	114.2	104.2	98.4	97.1	98.4	103.8	112.6
55°	178.4	154.3	130.1	107.6	90.5	80.5	75.9	74.6	75.9	80.9	90.0
57.5°	148.0	127.1	105.9	85.5	70.9	62.1	57.9	56.3	59.2	62.5	73.4
60°	119.6	103.0	85.0	67.1	55.0	47.1	43.8	43.4	44.2	48.4	55.9
62.5°	93.8	80.0	65.9	51.3	41.3	37.9	33.8	33.4	34.2	36.7	42.5
65°	67.5	58.8	47.9	37.5	29.6	25.0	23.3	23.8	24.6	26.3	31.7
67.5°	47.1	40.9	33.4	26.3	20.4	18.3	16.7	16.3	16.7	19.6	22.5
70°	31.7	27.9	22.5	20.0	14.2	11.3	11.7	10.4	12.1	12.1	14.6
72.5°	20.8	18.3	15.0	11.7	10.0	7.9	7.9	7.5	8.3	8.8	10.8
75°	10.8	8.3	8.3	5.8	4.2	2.1	3.8	3.3	2.9	3.3	4.2
77.5°	7.5	6.3	5.8	4.6	4.2	3.3	3.3	3.3	3.3	3.8	4.2
80°	4.6	4.6	3.3	2.9	2.5	2.1	2.5	2.5	2.5	2.5	2.9
82.5°	2.9	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	2.9	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°	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7
2.5°	777.9	778.3	778.3	777.9	777.9	777.1	778.7	777.5	777.9	779.6	778.3
5°	778.7	779.2	779.2	778.7	778.7	778.7	779.2	779.2	778.7	778.3	779.2
7.5°	780.4	780.0	780.0	779.2	779.2	778.3	779.2	777.9	778.7	777.9	779.2
10°	778.3	778.7	778.3	777.9	777.9	777.5	777.5	776.2	776.7	775.4	776.2
12.5°	777.1	776.7	776.7	775.8	775.0	774.2	773.7	772.5	772.5	769.6	770.8
15°	773.7	774.2	772.9	771.2	770.4	768.3	767.5	765.8	764.2	762.1	762.5
17.5°	770.8	769.6	767.9	766.2	762.9	761.2	759.6	757.1	756.2	753.7	752.9
20°	762.1	761.2	759.2	756.2	754.1	750.4	748.7	746.2	744.1	741.6	740.4
22.5°	750.8	750.0	747.5	744.6	741.2	739.6	737.9	733.3	731.2	728.7	728.3
25°	736.6	735.4	732.9	729.6	727.9	723.3	721.6	718.3	717.5	715.0	714.5
27.5°	715.0	713.3	710.4	706.2	703.3	700.4	698.7	696.2	695.4	692.9	692.5
30°	682.4	680.4	674.5	672.9	667.8	664.9	664.9	661.6	662.0	660.3	660.3
32.5°	631.2	627.8	623.2	619.9	616.6	614.9	614.9	613.7	614.5	614.5	615.3
35°	563.2	558.6	556.1	554.0	554.0	555.7	560.7	562.0	564.5	566.5	568.2
37.5°	476.1	475.7	478.6	481.1	487.3	494.4	503.2	510.7	517.8	522.8	527.8
40°	381.9	392.3	400.6	412.3	421.9	435.6	451.5	464.4	476.5	485.3	494.4
42.5°	298.1	311.4	328.9	346.0	363.1	381.9	402.7	420.6	436.5	448.6	458.2
45°	232.2	250.5	271.8	293.5	315.6	338.9	360.6	378.9	395.6	408.1	417.7
47.5°	187.2	207.2	231.4	255.1	280.1	304.7	328.9	344.8	358.5	368.5	377.3
50°	154.7	175.9	201.4	228.5	253.5	278.1	298.9	314.3	325.6	334.3	339.8
52.5°	129.2	151.7	178.8	205.9	230.9	253.5	272.2	283.9	293.1	299.3	304.3
55°	106.7	128.4	153.8	179.3	203.9	225.1	240.5	249.3	256.4	260.1	263.1
57.5°	87.1	107.1	130.5	153.8	175.1	192.6	204.7	213.4	216.8	219.7	219.3
60°	68.4	87.1	108.4	128.4	146.7	160.9	169.7	174.7	177.2	178.4	177.6
62.5°	53.8	70.9	87.1	104.6	118.0	130.1	138.4	138.4	139.7	140.1	141.3
65°	40.0	52.9	67.1	80.0	90.9	98.8	103.4	104.6	106.3	105.9	105.1
67.5°	29.6	39.2	49.6	59.2	66.7	71.7	75.0	78.0	77.5	76.7	76.3
70°	20.4	26.7	35.9	41.7	47.1	52.1	52.9	53.4	53.8	54.2	53.4
72.5°	14.2	18.8	23.8	28.8	32.1	34.2	36.3	36.7	36.7	36.7	36.3
75°	7.1	9.6	14.2	16.3	19.2	20.0	21.7	21.7	22.9	21.3	20.8
77.5°	6.3	7.5	10.0	11.7	12.9	14.2	14.6	15.8	15.4	14.6	15.0
80°	3.8	4.6	6.3	7.1	8.8	9.2	9.6	10.0	9.6	10.0	10.0
82.5°	2.9	3.3	4.2	4.2	5.4	5.4	5.8	5.8	6.3	6.3	6.3
85°	1.7	2.9	2.5	5.0	3.3	3.3	4.2	5.0	4.2	4.2	5.0
87.5°	1.7	1.7	1.3	1.7	1.7	1.7	2.1	2.5	2.5	2.9	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°	776.7	776.7	776.7	776.7
2.5°	777.9	778.7	777.5	777.1
5°	779.2	779.2	778.3	778.3
7.5°	779.2	779.2	777.9	777.1
10°	775.8	775.8	774.6	773.7
12.5°	769.6	769.6	769.1	767.9
15°	761.7	761.7	760.0	758.7
17.5°	750.8	751.6	749.6	749.6
20°	739.1	738.7	737.1	736.2
22.5°	727.1	726.2	725.8	723.3
25°	714.1	713.3	712.0	710.8
27.5°	692.0	691.6	690.4	688.7
30°	658.3	657.8	656.2	656.2
32.5°	614.5	614.1	612.4	612.8
35°	569.0	570.7	569.9	568.2
37.5°	531.1	532.4	533.2	532.4
40°	499.4	503.2	503.6	504.4
42.5°	465.7	470.7	472.3	473.2
45°	425.2	429.8	433.6	432.7
47.5°	383.9	387.3	390.6	388.1
50°	344.3	346.4	347.7	347.7
52.5°	306.8	306.8	306.4	306.8
55°	263.9	263.9	262.2	263.1
57.5°	218.9	219.7	218.4	216.4
60°	177.2	175.1	174.3	173.0
62.5°	138.0	138.0	135.1	138.8
65°	103.4	102.1	100.9	100.5
67.5°	75.0	74.6	73.4	73.0
70°	52.9	51.3	50.9	50.0
72.5°	35.4	35.4	34.6	34.6
75°	21.7	19.6	19.2	19.6
77.5°	15.0	14.6	14.6	14.2
80°	10.0	9.6	10.4	9.2
82.5°	6.3	6.7	6.3	6.7
85°	4.2	5.0	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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