

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: P244170

Luminaire Tested: **LSR8B10D010 EC8B10835 8LBDW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244170  
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: LSR8B10D010 EC8B10835 8LBDW0LI  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1198.0 lumens  
Efficiency: N/A  
Efficacy: 117.4 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

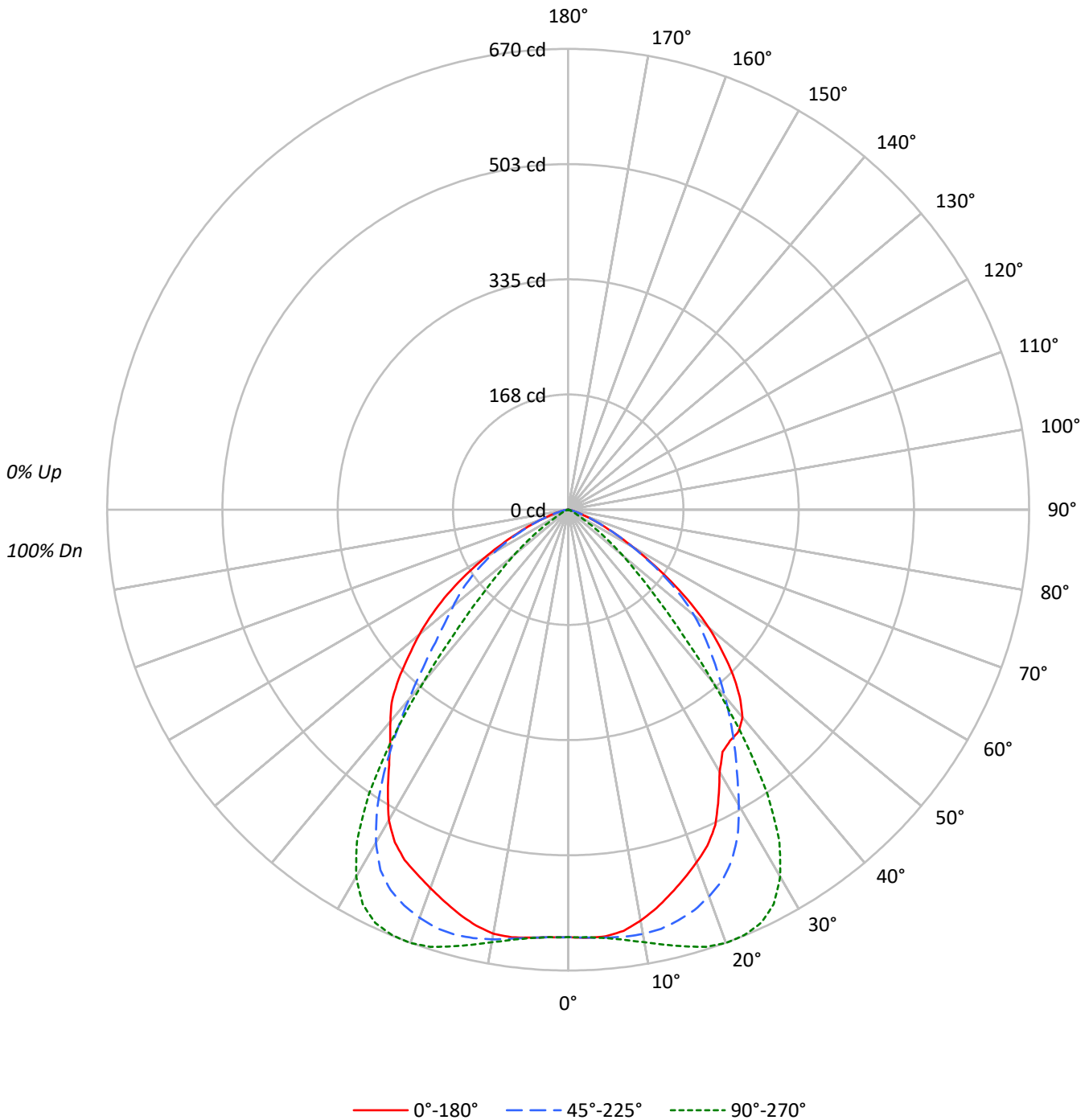
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	75	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°	19165	19165	19165
5°	19278	19349	19331
10°	18994	19996	19604
15°	18439	20987	19451
20°	17904	21996	19213
25°	17216	22558	19125
30°	15667	21941	18558
35°	15434	19010	17075
40°	15856	13187	16186
45°	14762	7967	15220
50°	12804	4922	13562
55°	9822	2570	11510
60°	6691	1036	8690
65°	4166	533	5990
70°	2263	325	3660
75°	1180	155	2156
80°	533	178	1172
85°	354	106	1061



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.8	5.0
10°-20°	177.1	14.8
20°-30°	270.1	22.5
30°-40°	281.9	23.5
40°-50°	211.7	17.7
50°-60°	130.3	10.9
60°-70°	53.0	4.4
70°-80°	12.5	1.0
80°-90°	1.7	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°	506.9	42.3
0°-40°	788.8	65.8
0°-60°	1130.8	94.4
0°-90°	1198.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1198.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	622	622	622	622	622	
5°	623	624	625	624	624	59
15°	578	618	657	639	609	163
25°	506	563	663	611	562	230
35°	410	422	505	467	454	259
45°	338	293	183	273	349	258
55°	183	174	48	174	214	164
65°	57	58	7	78	82	60
75°	10	10	1	18	18	12
85°	1	1	0	2	3	1
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°	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5
2.5°	623.1	622.1	623.1	623.1	623.5	622.8	623.1	623.5	622.8	622.8	622.8
5°	622.8	622.1	622.8	622.5	623.1	623.1	623.8	623.8	624.5	624.5	625.4
7.5°	617.5	616.2	617.5	618.5	619.2	620.5	622.1	623.5	624.8	626.1	627.8
10°	606.6	606.6	607.6	609.6	611.6	613.9	616.9	620.2	623.5	626.4	629.4
12.5°	593.1	592.1	594.1	596.7	599.7	603.3	608.0	612.9	618.2	624.1	628.7
15°	577.6	576.6	578.9	581.6	585.2	590.5	596.1	602.7	610.3	618.2	625.8
17.5°	561.8	561.4	563.8	567.4	570.4	576.0	583.2	591.1	599.7	610.3	620.2
20°	545.6	545.3	547.6	550.6	554.5	559.8	567.1	576.3	586.5	598.4	609.9
22.5°	528.8	529.1	531.1	534.4	537.7	543.3	550.9	560.1	571.3	584.2	597.1
25°	506.0	504.4	507.0	510.3	515.9	520.5	527.8	537.7	549.2	562.8	577.9
27.5°	473.0	472.7	475.0	478.0	482.9	488.5	496.5	506.7	518.9	533.7	548.6
30°	440.0	440.7	441.7	444.7	448.0	453.6	461.5	470.1	481.6	495.8	511.6
32.5°	417.6	417.6	418.9	420.9	423.2	426.2	431.8	438.1	447.0	456.9	468.4
35°	410.0	408.7	410.0	410.4	410.7	411.4	412.3	414.3	417.3	421.6	425.9
37.5°	406.7	405.7	405.7	404.4	402.8	400.8	398.2	395.2	391.9	387.6	384.3
40°	393.9	393.2	392.5	391.2	387.6	383.6	379.4	372.4	364.8	354.3	343.7
42.5°	369.1	368.5	368.1	365.5	362.2	357.6	352.6	345.4	335.8	322.3	307.1
45°	338.5	337.1	336.1	333.8	331.5	327.6	322.9	316.3	306.8	292.9	274.8
47.5°	302.8	302.2	301.8	300.8	298.5	296.2	293.3	288.0	279.4	266.2	247.4
50°	266.9	265.6	266.2	265.9	264.9	263.2	261.3	257.6	251.0	239.2	222.0
52.5°	225.6	225.6	225.3	226.3	226.6	226.3	226.6	222.7	217.1	208.1	193.6
55°	182.7	182.7	183.7	185.1	186.4	186.7	186.4	184.7	180.8	173.5	160.6
57.5°	142.5	141.8	143.8	145.8	147.1	148.4	147.5	146.1	143.8	137.9	128.0
60°	108.5	108.5	109.8	111.2	112.5	113.8	113.5	113.1	111.2	107.2	99.3
62.5°	79.8	80.2	80.2	81.2	82.5	83.8	84.8	83.8	82.8	80.2	74.9
65°	57.1	56.7	57.1	58.1	59.1	60.4	61.0	60.7	59.7	57.7	53.8
67.5°	38.3	37.9	39.3	39.6	40.2	41.6	41.2	41.6	41.2	39.6	36.3
70°	25.1	24.4	25.1	24.7	25.7	26.1	26.7	27.0	26.7	25.7	24.7
72.5°	15.5	15.2	15.5	15.8	16.2	16.5	17.2	17.2	16.8	16.2	14.8
75°	9.9	8.9	9.2	8.6	9.2	9.2	9.9	10.2	9.9	9.9	9.2
77.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.3	6.6	5.9	5.6
80°	3.0	3.0	3.3	3.3	3.3	3.6	3.3	3.3	3.3	3.6	2.6
82.5°	2.3	2.0	2.0	2.0	2.3	2.0	2.0	2.0	2.0	2.0	2.0
85°	1.0	1.3	1.0	0.7	1.0	1.0	1.3	1.0	1.0	1.0	1.3
87.5°	0.3	0.3	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.7	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°	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5
2.5°	623.1	622.5	622.5	622.1	622.8	622.1	622.5	622.1	622.1	622.8	622.1
5°	625.4	625.8	625.1	624.8	625.8	625.8	625.8	625.1	625.1	625.4	625.1
7.5°	628.7	629.4	629.7	630.1	630.7	631.1	631.1	630.7	630.4	631.4	630.1
10°	632.4	633.4	635.3	636.3	638.0	638.0	638.6	638.6	638.0	638.6	638.3
12.5°	631.1	637.0	640.3	642.6	644.9	646.9	647.5	647.9	647.5	648.9	647.5
15°	633.4	638.3	643.6	647.5	651.8	654.1	654.8	657.4	658.1	658.4	656.5
17.5°	629.7	638.6	644.2	650.2	656.5	660.7	664.7	666.3	666.7	667.3	664.7
20°	621.5	631.4	640.0	648.5	655.8	662.4	665.7	670.3	669.0	671.6	668.0
22.5°	610.3	621.5	632.4	643.6	651.2	659.1	666.0	669.3	671.0	671.0	667.0
25°	592.5	605.7	617.5	629.1	640.6	650.2	658.1	663.0	664.0	663.7	659.1
27.5°	564.7	578.9	592.8	606.0	620.2	631.4	640.6	646.6	648.2	648.2	643.3
30°	526.5	541.7	555.2	571.0	585.5	598.1	610.9	616.2	619.2	619.2	613.6
32.5°	481.0	493.8	506.4	521.9	537.7	551.9	564.1	571.3	575.0	574.6	569.7
35°	431.5	437.7	447.3	458.9	473.0	486.2	498.1	505.0	511.3	511.0	506.4
37.5°	382.0	380.3	381.3	385.6	394.5	403.8	413.0	419.6	424.9	427.2	426.2
40°	333.5	324.9	316.7	313.7	314.4	317.7	322.6	327.6	333.5	336.5	337.8
42.5°	290.0	275.4	260.9	250.0	243.8	241.8	244.1	245.8	249.4	253.7	258.0
45°	255.0	235.5	216.4	199.6	189.0	182.7	181.4	182.7	184.7	189.0	194.6
47.5°	226.3	203.5	182.1	163.3	147.8	139.5	137.2	136.6	138.5	142.5	150.1
50°	200.9	178.1	154.4	132.6	116.4	107.2	103.9	102.6	104.9	107.9	114.8
52.5°	173.2	150.8	126.3	105.2	88.4	78.8	75.2	73.2	74.5	78.5	85.4
55°	143.2	122.4	100.3	78.5	62.3	53.4	49.1	47.8	49.1	53.4	60.4
57.5°	113.1	95.7	77.2	56.7	42.2	33.3	29.0	27.7	31.3	33.0	40.2
60°	88.4	74.2	58.4	41.6	29.0	22.1	17.8	16.8	18.5	21.4	27.4
62.5°	66.3	57.4	44.9	29.7	21.4	14.2	11.9	10.9	11.9	14.2	18.8
65°	48.2	41.2	31.3	21.8	14.5	10.6	7.9	7.3	8.2	9.9	13.9
67.5°	33.0	27.7	21.8	15.2	9.9	6.6	5.6	5.6	5.9	7.3	10.2
70°	21.4	18.1	13.9	9.9	6.6	4.9	4.3	3.6	4.3	5.3	6.9
72.5°	13.5	11.5	8.9	6.9	4.9	3.6	3.0	2.6	3.3	4.0	5.3
75°	8.2	6.3	4.6	3.6	2.6	2.6	2.6	1.3	1.6	2.6	3.3
77.5°	4.9	4.3	3.6	3.0	2.3	1.3	1.3	1.3	1.6	2.0	3.0
80°	2.6	2.3	1.6	1.6	1.3	1.0	1.3	1.0	0.7	1.6	2.0
82.5°	1.6	1.3	1.3	1.3	1.6	0.7	1.0	0.7	1.0	1.3	1.0
85°	1.0	1.0	1.0	0.7	1.6	0.7	0.7	0.3	0.3	0.7	0.7
87.5°	0.0	0.3	0.3	0.0	0.3	0.0	0.3	0.3	0.3	0.3	0.3
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°	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5
2.5°	622.5	622.1	622.5	622.1	622.1	622.1	622.5	622.5	622.1	622.1	622.8
5°	625.1	625.1	625.1	624.8	624.5	624.5	625.1	625.1	624.1	625.1	625.1
7.5°	630.7	629.7	630.7	629.4	628.7	629.1	629.4	628.7	628.1	628.4	628.4
10°	638.0	637.0	637.0	636.0	635.0	634.3	633.7	632.0	630.4	630.1	628.7
12.5°	646.6	644.9	643.9	641.9	640.3	638.0	636.0	633.4	630.1	627.8	625.4
15°	655.1	652.5	650.2	646.9	643.3	639.3	635.0	630.7	625.4	620.8	616.9
17.5°	662.1	658.4	654.1	648.9	643.6	637.6	631.4	625.1	617.5	611.6	607.0
20°	664.4	659.1	653.5	646.6	639.6	631.4	623.5	615.2	606.6	600.4	595.1
22.5°	661.4	655.1	648.2	640.9	631.7	622.8	613.6	604.0	596.4	587.8	582.9
25°	653.2	645.6	638.0	629.4	620.5	610.6	600.7	590.8	581.6	576.9	570.7
27.5°	636.3	628.1	619.8	610.9	600.7	590.8	580.6	571.0	563.1	556.8	553.2
30°	606.6	597.1	587.5	577.9	569.0	558.8	549.2	541.3	533.4	528.5	524.8
32.5°	561.1	552.5	543.0	533.7	525.5	516.9	509.0	502.1	496.5	493.2	490.5
35°	499.8	491.2	483.9	477.3	470.4	466.8	461.8	457.9	455.6	454.2	453.9
37.5°	422.6	417.6	415.3	414.0	412.7	411.7	412.3	414.0	415.3	417.6	420.3
40°	340.1	344.4	345.7	350.3	354.6	360.2	366.5	373.7	379.7	387.3	392.5
42.5°	264.9	272.8	282.0	291.9	302.5	312.7	325.3	336.8	347.4	356.9	365.2
45°	203.5	215.7	229.6	243.8	258.0	272.8	288.0	302.2	314.7	324.9	333.5
47.5°	158.7	172.2	190.0	207.5	224.6	242.1	258.9	273.8	284.4	294.2	301.8
50°	125.7	141.2	160.6	180.8	199.6	218.0	235.9	249.7	260.3	268.2	273.8
52.5°	97.3	115.8	135.6	156.7	176.8	196.9	213.4	226.3	234.9	241.8	246.1
55°	72.6	90.7	111.8	133.6	154.1	173.5	189.0	200.2	207.8	211.8	214.1
57.5°	52.4	68.9	90.1	111.8	130.3	148.8	161.3	171.5	175.8	178.1	179.1
60°	38.3	53.4	72.2	91.0	108.5	123.4	134.3	141.2	144.5	145.8	145.5
62.5°	28.0	41.2	57.4	73.2	87.4	99.6	108.2	112.8	114.5	115.1	114.1
65°	21.4	31.7	45.5	57.7	68.6	77.5	83.8	86.8	87.7	87.4	86.8
67.5°	15.8	23.8	34.0	43.2	51.1	58.1	61.4	64.0	64.7	63.7	62.7
70°	11.2	17.5	24.7	31.0	36.9	40.9	44.5	44.9	44.9	44.5	43.9
72.5°	7.9	12.2	16.8	21.1	24.7	27.7	29.0	30.0	29.7	29.4	28.7
75°	5.3	7.6	12.2	13.2	16.5	17.5	18.8	18.8	19.1	18.1	18.1
77.5°	3.3	5.3	7.3	8.6	9.9	11.2	11.9	11.9	12.2	11.9	11.9
80°	2.0	3.3	4.0	5.9	5.9	6.9	7.3	7.6	6.9	7.9	6.9
82.5°	1.3	2.0	3.0	3.0	3.6	4.3	4.3	4.6	4.6	4.3	4.3
85°	1.0	1.3	1.6	2.0	2.0	2.3	2.0	2.0	2.3	2.6	2.3
87.5°	0.3	0.7	0.3	0.7	0.7	1.3	1.0	1.0	1.0	1.3	1.3
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°	621.5	621.5	621.5	621.5
2.5°	622.1	622.5	622.1	622.1
5°	625.1	624.8	625.1	624.5
7.5°	627.4	627.4	627.1	627.1
10°	627.4	626.1	626.1	626.1
12.5°	622.5	620.8	619.8	619.2
15°	613.9	610.9	609.6	609.3
17.5°	602.7	600.0	598.4	597.4
20°	589.8	587.2	585.2	585.5
22.5°	578.6	575.6	574.3	573.6
25°	567.4	563.8	562.8	562.1
27.5°	549.2	547.3	546.3	545.3
30°	521.5	520.5	518.9	521.2
32.5°	489.5	487.9	486.6	487.6
35°	454.2	453.2	454.2	453.6
37.5°	421.9	422.9	424.2	424.9
40°	396.5	400.1	401.5	402.1
42.5°	371.1	375.4	378.0	379.7
45°	339.8	344.1	347.0	349.0
47.5°	307.4	311.1	314.0	313.7
50°	278.1	280.1	281.4	282.7
52.5°	248.4	248.4	248.7	248.7
55°	214.7	214.1	213.8	214.1
57.5°	177.8	177.1	176.8	175.8
60°	144.2	142.2	140.9	140.9
62.5°	112.8	110.5	109.5	109.2
65°	84.8	84.4	82.5	82.1
67.5°	61.4	60.0	58.7	59.1
70°	43.2	41.2	41.2	40.6
72.5°	28.0	27.0	26.7	26.7
75°	17.5	17.5	16.8	18.1
77.5°	11.5	11.5	11.2	11.5
80°	6.9	6.9	6.9	6.6
82.5°	4.3	4.6	4.3	4.3
85°	2.3	2.6	2.0	3.0
87.5°	1.3	1.6	1.3	1.6
90°	0.0	0.0	0.0	0.0

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