

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: P246078

Luminaire Tested: **LSR8B10D010 EC8B10940 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246078  
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: LSR8B10D010 EC8B10940 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1006.0 lumens  
Efficiency: N/A  
Efficacy: 98.6 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

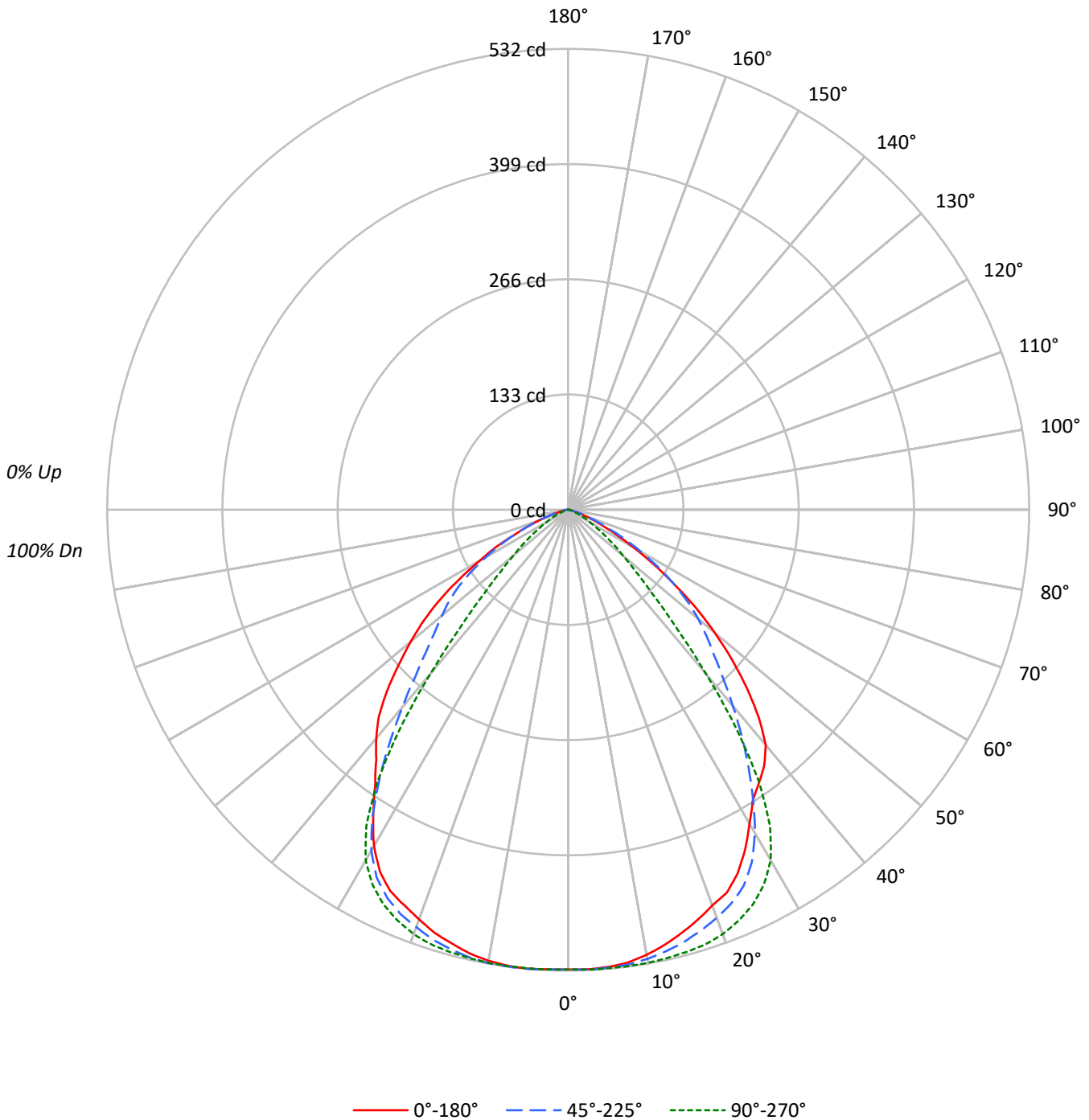
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	16368	16368	16368
5°	16403	16449	16464
10°	16335	16630	16558
15°	16154	16872	16553
20°	15958	17110	16513
25°	15753	17128	16529
30°	14901	16646	15966
35°	14459	14467	14617
40°	14278	9955	13876
45°	12721	5974	12895
50°	10578	3977	11398
55°	7935	2742	9666
60°	5378	1826	7290
65°	3240	1182	5013
70°	1794	640	3083
75°	810	274	1597
80°	710	302	1119
85°	814	389	1097



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.7	5.0
10°-20°	147.1	14.6
20°-30°	223.3	22.2
30°-40°	234.5	23.3
40°-50°	175.8	17.5
50°-60°	112.8	11.2
60°-70°	48.3	4.8
70°-80°	11.4	1.1
80°-90°	2.1	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°	421.1	41.9
0°-40°	655.6	65.2
0°-60°	944.2	93.9
0°-90°	1006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1006.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	531	531	531	531	531	
5°	530	531	531	532	532	50
15°	506	516	528	525	518	143
25°	463	479	503	494	486	212
35°	384	363	384	380	388	241
45°	292	238	137	232	296	223
55°	148	148	51	154	180	134
65°	44	52	16	68	69	47
75°	7	8	2	14	13	10
85°	2	1	1	2	3	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°	530.8	530.8	530.8	530.8	530.8	530.8	530.8	530.8	530.8	530.8	530.8
2.5°	531.1	531.6	531.4	531.4	531.1	531.4	531.4	531.9	531.9	531.4	531.1
5°	529.9	530.5	530.5	529.9	529.9	531.4	530.5	531.1	531.1	530.8	530.8
7.5°	527.4	527.4	528.5	527.7	527.7	528.5	528.2	528.8	529.4	529.6	529.6
10°	521.7	522.2	522.5	522.5	522.8	523.7	524.2	525.4	525.9	526.5	526.8
12.5°	514.5	515.4	515.7	515.4	516.3	517.4	518.8	520.2	521.1	522.2	523.1
15°	506.0	506.0	506.6	507.4	508.0	509.7	511.1	512.8	515.1	516.5	518.0
17.5°	496.6	497.2	498.0	498.0	499.2	502.0	502.9	505.4	508.0	509.4	512.3
20°	486.3	486.9	487.8	488.3	489.8	492.0	493.7	496.0	498.9	501.4	504.3
22.5°	478.4	477.2	477.8	478.4	479.8	481.8	483.8	486.6	489.5	492.0	494.9
25°	463.0	463.3	464.1	464.7	466.4	468.1	470.4	473.8	476.4	479.2	482.3
27.5°	442.2	442.5	443.9	443.9	445.3	448.2	449.6	452.4	455.9	458.7	462.4
30°	418.5	419.1	419.1	420.2	421.1	422.5	423.9	426.8	428.5	431.1	436.2
32.5°	396.9	397.4	397.2	396.9	396.0	395.7	395.5	396.0	396.6	397.4	399.4
35°	384.1	382.6	381.5	379.5	377.2	374.4	371.8	368.4	365.3	362.7	359.8
37.5°	371.8	371.5	369.8	367.0	362.4	357.3	351.3	343.9	336.5	328.5	320.8
40°	354.7	353.9	352.4	348.4	343.3	337.0	329.1	320.0	308.0	295.7	283.2
42.5°	325.6	325.9	324.2	321.1	316.3	310.3	302.0	292.0	279.2	264.7	248.4
45°	291.7	291.7	291.2	288.6	285.2	280.3	274.1	265.8	253.3	238.5	221.1
47.5°	256.4	256.7	255.8	255.3	253.9	250.7	246.2	239.9	231.1	216.8	199.4
50°	220.5	220.5	221.9	221.7	221.7	220.5	218.5	214.8	207.1	195.7	179.5
52.5°	184.6	185.2	186.0	187.2	188.6	190.9	188.6	186.9	182.1	173.2	159.3
55°	147.6	148.2	149.6	151.6	153.3	155.6	156.1	156.1	153.6	147.6	137.0
57.5°	116.0	115.1	116.2	118.0	120.2	122.5	124.2	126.2	125.9	121.9	113.4
60°	87.2	87.5	88.3	90.0	91.7	93.7	96.0	97.7	98.6	96.6	91.2
62.5°	63.5	63.5	64.7	66.4	67.2	70.1	71.5	72.4	73.2	72.9	69.5
65°	44.4	45.0	45.6	46.4	47.3	49.0	49.9	51.6	52.1	52.4	49.9
67.5°	31.3	30.5	31.1	31.6	32.5	33.6	35.3	35.3	36.2	36.2	34.5
70°	19.9	19.9	20.2	21.1	21.7	21.9	22.5	23.1	23.9	23.6	23.6
72.5°	13.4	13.1	13.4	13.7	14.0	14.8	14.8	15.1	15.7	16.0	14.8
75°	6.8	7.1	7.7	7.4	8.3	7.7	8.0	8.8	8.5	8.0	8.0
77.5°	5.7	5.7	5.7	5.4	6.0	6.0	5.7	6.3	6.0	6.0	5.7
80°	4.0	4.3	4.0	3.7	4.0	3.7	3.7	3.7	3.7	3.7	3.4
82.5°	3.1	2.6	2.9	2.6	2.9	2.9	2.6	2.3	2.3	2.6	2.3
85°	2.3	1.7	2.0	2.0	1.7	1.7	1.7	1.7	1.7	1.4	1.4
87.5°	1.4	0.9	0.9	0.9	1.1	1.1	1.1	0.9	1.1	1.1	0.6
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	530.8	530.8	530.8	530.8	530.8	530.8	530.8	530.8	530.8	530.8	530.8
2.5°	531.6	531.4	531.9	531.6	531.6	531.4	531.6	531.4	531.9	530.8	531.1
5°	531.6	531.1	531.4	531.6	531.9	531.4	531.4	531.4	531.9	531.4	531.6
7.5°	530.5	530.2	531.1	531.6	531.4	531.1	531.6	531.4	531.9	531.6	532.2
10°	528.2	528.5	529.1	529.9	530.2	530.5	531.1	531.1	531.9	530.8	531.4
12.5°	524.8	525.9	527.4	527.9	529.1	529.1	529.6	529.9	530.5	530.2	531.1
15°	520.5	522.0	523.7	525.1	526.5	527.4	528.2	528.5	529.4	528.5	528.8
17.5°	515.4	517.1	519.7	521.4	523.7	524.5	525.7	526.2	527.1	526.5	526.8
20°	508.3	510.3	513.1	515.7	517.1	519.1	520.5	521.4	522.0	521.4	521.7
22.5°	498.3	501.2	504.9	506.9	509.7	511.4	511.7	513.7	515.1	513.7	514.3
25°	486.6	489.5	492.3	496.6	499.2	501.2	503.2	503.4	504.9	504.6	504.3
27.5°	467.2	471.0	475.8	479.2	482.6	485.8	488.1	488.6	490.0	489.5	489.8
30°	440.8	444.7	449.3	454.7	459.6	462.7	465.5	467.5	469.0	468.1	467.8
32.5°	403.1	407.1	412.0	417.4	423.1	427.6	431.1	433.6	435.3	434.8	433.3
35°	360.1	361.3	364.4	368.7	373.5	378.4	381.5	384.3	386.3	386.9	386.9
37.5°	316.0	312.3	310.0	310.0	312.8	314.8	317.7	319.4	322.5	323.7	324.5
40°	273.2	264.7	256.7	250.7	246.7	246.4	246.4	247.3	250.2	253.9	257.3
42.5°	235.1	221.4	209.1	198.0	190.0	185.5	183.5	183.8	186.0	189.5	195.2
45°	204.6	187.5	172.1	158.7	147.9	140.7	137.3	137.0	138.7	142.7	149.0
47.5°	180.9	162.7	145.3	129.9	118.2	110.5	106.6	105.4	106.6	110.3	117.7
50°	161.3	142.5	124.5	108.5	96.0	88.0	84.3	82.9	84.3	87.5	94.9
52.5°	143.0	123.6	106.8	91.5	78.1	71.2	67.2	66.4	67.2	70.9	76.9
55°	121.9	105.4	88.9	73.5	61.8	55.0	51.9	51.0	51.9	55.3	61.5
57.5°	101.1	86.9	72.4	58.4	48.4	42.4	39.6	38.5	40.5	42.7	50.1
60°	81.8	70.4	58.1	45.9	37.6	32.2	29.9	29.6	30.2	33.1	38.2
62.5°	64.1	54.7	45.0	35.0	28.2	25.9	23.1	22.8	23.4	25.1	29.1
65°	46.2	40.2	32.8	25.6	20.2	17.1	16.0	16.2	16.8	18.0	21.7
67.5°	32.2	27.9	22.8	18.0	14.0	12.5	11.4	11.1	11.4	13.4	15.4
70°	21.7	19.1	15.4	13.7	9.7	7.7	8.0	7.1	8.3	8.3	10.0
72.5°	14.2	12.5	10.3	8.0	6.8	5.4	5.4	5.1	5.7	6.0	7.4
75°	7.4	5.7	5.7	4.0	2.9	1.4	2.6	2.3	2.0	2.3	2.9
77.5°	5.1	4.3	4.0	3.1	2.9	2.3	2.3	2.3	2.3	2.6	2.9
80°	3.1	3.1	2.3	2.0	1.7	1.4	1.7	1.7	1.7	1.7	2.0
82.5°	2.0	1.7	1.7	1.4	1.4	1.1	1.1	1.1	1.1	1.1	1.7
85°	1.7	1.1	1.1	0.9	1.1	2.0	0.9	1.1	1.1	1.1	0.9
87.5°	0.6	0.9	0.9	0.9	0.6	0.3	0.6	0.9	0.9	1.4	1.1
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°	530.8	530.8	530.8	530.8	530.8	530.8	530.8	530.8	530.8	530.8	530.8
2.5°	531.6	531.9	531.9	531.6	531.6	531.1	532.2	531.4	531.6	532.8	531.9
5°	532.2	532.5	532.5	532.2	532.2	532.2	532.5	532.5	532.2	531.9	532.5
7.5°	533.4	533.1	533.1	532.5	532.5	531.9	532.5	531.6	532.2	531.6	532.5
10°	531.9	532.2	531.9	531.6	531.6	531.4	531.4	530.5	530.8	529.9	530.5
12.5°	531.1	530.8	530.8	530.2	529.6	529.1	528.8	527.9	527.9	525.9	526.8
15°	528.8	529.1	528.2	527.1	526.5	525.1	524.5	523.4	522.2	520.8	521.1
17.5°	526.8	525.9	524.8	523.7	521.4	520.2	519.1	517.4	516.8	515.1	514.5
20°	520.8	520.2	518.8	516.8	515.4	512.8	511.7	510.0	508.6	506.9	506.0
22.5°	513.1	512.5	510.8	508.8	506.6	505.4	504.3	501.2	499.7	498.0	497.7
25°	503.4	502.6	500.9	498.6	497.4	494.3	493.2	490.9	490.3	488.6	488.3
27.5°	488.6	487.5	485.5	482.6	480.6	478.6	477.5	475.8	475.2	473.5	473.2
30°	466.4	465.0	461.0	459.8	456.4	454.4	454.4	452.1	452.4	451.3	451.3
32.5°	431.4	429.1	425.9	423.7	421.4	420.2	420.2	419.4	420.0	420.0	420.5
35°	384.9	381.8	380.1	378.6	378.6	379.8	383.2	384.1	385.8	387.2	388.3
37.5°	325.4	325.1	327.1	328.8	333.1	337.9	343.9	349.0	353.9	357.3	360.7
40°	261.0	268.1	273.8	281.8	288.3	297.7	308.6	317.4	325.6	331.6	337.9
42.5°	203.7	212.8	224.8	236.5	248.2	261.0	275.2	287.5	298.3	306.6	313.1
45°	158.7	171.2	185.8	200.6	215.7	231.6	246.4	259.0	270.4	278.9	285.5
47.5°	127.9	141.6	158.1	174.4	191.5	208.3	224.8	235.6	245.0	251.9	257.8
50°	105.7	120.2	137.6	156.1	173.2	190.0	204.3	214.8	222.5	228.5	232.2
52.5°	88.3	103.7	122.2	140.7	157.8	173.2	186.0	194.0	200.3	204.6	208.0
55°	72.9	87.8	105.1	122.5	139.3	153.8	164.4	170.4	175.2	177.8	179.8
57.5°	59.5	73.2	89.2	105.1	119.7	131.6	139.9	145.9	148.2	150.1	149.9
60°	46.7	59.5	74.1	87.8	100.3	110.0	116.0	119.4	121.1	121.9	121.4
62.5°	36.8	48.4	59.5	71.5	80.6	88.9	94.6	94.6	95.4	95.7	96.6
65°	27.3	36.2	45.9	54.7	62.1	67.5	70.7	71.5	72.7	72.4	71.8
67.5°	20.2	26.8	33.9	40.5	45.6	49.0	51.3	53.3	53.0	52.4	52.1
70°	14.0	18.2	24.5	28.5	32.2	35.6	36.2	36.5	36.8	37.0	36.5
72.5°	9.7	12.8	16.2	19.7	21.9	23.4	24.8	25.1	25.1	25.1	24.8
75°	4.8	6.6	9.7	11.1	13.1	13.7	14.8	14.8	15.7	14.5	14.2
77.5°	4.3	5.1	6.8	8.0	8.8	9.7	10.0	10.8	10.5	10.0	10.3
80°	2.6	3.1	4.3	4.8	6.0	6.3	6.6	6.8	6.6	6.8	6.8
82.5°	2.0	2.3	2.9	2.9	3.7	3.7	4.0	4.0	4.3	4.3	4.3
85°	1.1	2.0	1.7	3.4	2.3	2.3	2.9	3.4	2.9	2.9	3.4
87.5°	1.1	1.1	0.9	1.1	1.1	1.1	1.4	1.7	1.7	2.0	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°	530.8	530.8	530.8	530.8
2.5°	531.6	532.2	531.4	531.1
5°	532.5	532.5	531.9	531.9
7.5°	532.5	532.5	531.6	531.1
10°	530.2	530.2	529.4	528.8
12.5°	525.9	525.9	525.7	524.8
15°	520.5	520.5	519.4	518.5
17.5°	513.1	513.7	512.3	512.3
20°	505.1	504.9	503.7	503.2
22.5°	496.9	496.3	496.0	494.3
25°	488.1	487.5	486.6	485.8
27.5°	473.0	472.7	471.8	470.7
30°	449.9	449.6	448.4	448.4
32.5°	420.0	419.7	418.5	418.8
35°	388.9	390.0	389.5	388.3
37.5°	363.0	363.8	364.4	363.8
40°	341.3	343.9	344.2	344.7
42.5°	318.2	321.7	322.8	323.4
45°	290.6	293.7	296.3	295.7
47.5°	262.4	264.7	267.0	265.2
50°	235.3	236.8	237.6	237.6
52.5°	209.7	209.7	209.4	209.7
55°	180.3	180.3	179.2	179.8
57.5°	149.6	150.1	149.3	147.9
60°	121.1	119.7	119.1	118.2
62.5°	94.3	94.3	92.3	94.9
65°	70.7	69.8	68.9	68.7
67.5°	51.3	51.0	50.1	49.9
70°	36.2	35.0	34.8	34.2
72.5°	24.2	24.2	23.6	23.6
75°	14.8	13.4	13.1	13.4
77.5°	10.3	10.0	10.0	9.7
80°	6.8	6.6	7.1	6.3
82.5°	4.3	4.6	4.3	4.6
85°	2.9	3.4	3.1	3.1
87.5°	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0

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