

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: P245508

Luminaire Tested: **LSR8B10D010 EC8B10950 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245508  
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 EC8B10950 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1074.0 lumens  
Efficiency: N/A  
Efficacy: 105.3 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

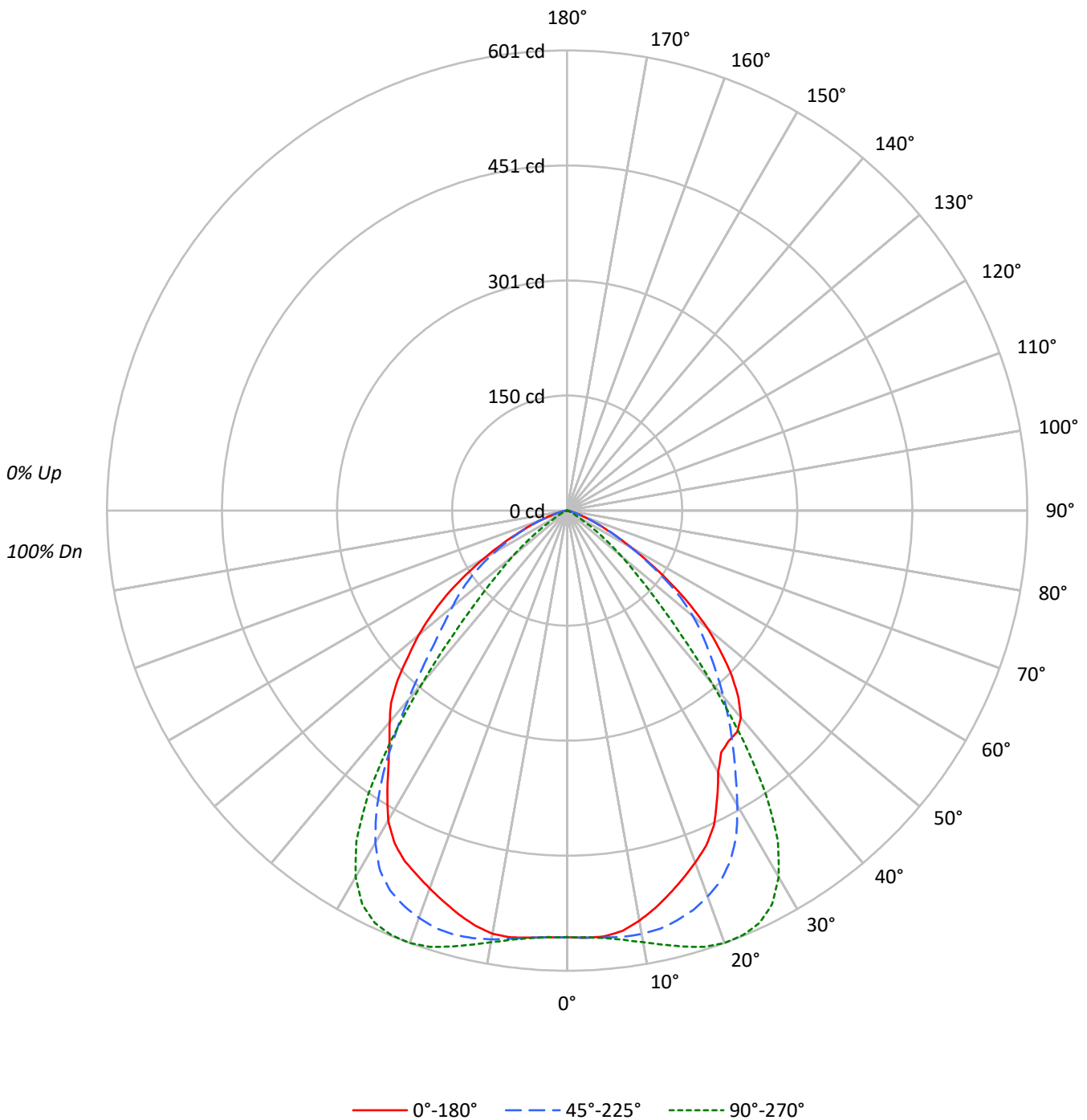
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

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

	0°	90°	180°
0°	17182	17182	17182
5°	17282	17347	17328
10°	17027	17926	17575
15°	16530	18816	17437
20°	16050	19719	17225
25°	15433	20224	17145
30°	14047	19669	16639
35°	13838	17045	15306
40°	14214	11823	14512
45°	13231	7143	13645
50°	11475	4413	12156
55°	8806	2306	10317
60°	6001	931	7789
65°	3736	474	5370
70°	2029	298	3282
75°	1060	143	1942
80°	479	160	1048
85°	318	106	955



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.6	5.0
10°-20°	158.7	14.8
20°-30°	242.2	22.5
30°-40°	252.7	23.5
40°-50°	189.8	17.7
50°-60°	116.8	10.9
60°-70°	47.5	4.4
70°-80°	11.2	1.0
80°-90°	1.6	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°	454.5	42.3
0°-40°	707.1	65.8
0°-60°	1013.7	94.4
0°-90°	1074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1074.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	557	557	557	557	557	
5°	558	560	560	560	560	53
15°	518	554	589	573	546	146
25°	454	504	594	547	504	206
35°	368	378	453	418	407	232
45°	303	263	164	245	313	231
55°	164	156	43	156	192	147
65°	51	52	6	70	74	53
75°	9	9	1	16	16	11
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°	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2
2.5°	558.6	557.7	558.6	558.6	558.9	558.3	558.6	558.9	558.3	558.3	558.3
5°	558.3	557.7	558.3	558.0	558.6	558.6	559.2	559.2	559.8	559.8	560.7
7.5°	553.6	552.4	553.6	554.5	555.1	556.3	557.7	558.9	560.1	561.3	562.8
10°	543.8	543.8	544.7	546.5	548.3	550.4	553.0	556.0	558.9	561.6	564.3
12.5°	531.7	530.8	532.6	535.0	537.6	540.9	545.0	549.5	554.2	559.5	563.7
15°	517.8	516.9	519.0	521.4	524.6	529.4	534.4	540.3	547.1	554.2	561.0
17.5°	503.6	503.3	505.4	508.7	511.3	516.3	522.9	529.9	537.6	547.1	556.0
20°	489.1	488.8	490.9	493.6	497.1	501.9	508.4	516.6	525.8	536.5	546.8
22.5°	474.1	474.4	476.1	479.1	482.0	487.1	493.9	502.2	512.2	523.7	535.3
25°	453.6	452.2	454.5	457.5	462.5	466.7	473.2	482.0	492.4	504.5	518.1
27.5°	424.1	423.8	425.9	428.5	432.9	438.0	445.1	454.2	465.2	478.5	491.8
30°	394.5	395.1	396.0	398.6	401.6	406.6	413.7	421.4	431.8	444.5	458.7
32.5°	374.4	374.4	375.6	377.4	379.4	382.1	387.1	392.7	400.7	409.6	419.9
35°	367.6	366.4	367.6	367.9	368.2	368.8	369.7	371.4	374.1	377.9	381.8
37.5°	364.6	363.7	363.7	362.6	361.1	359.3	356.9	354.3	351.3	347.5	344.5
40°	353.1	352.5	351.9	350.7	347.5	343.9	340.1	333.9	327.1	317.6	308.2
42.5°	330.9	330.3	330.0	327.7	324.7	320.6	316.1	309.6	301.1	288.9	275.3
45°	303.4	302.2	301.4	299.3	297.2	293.7	289.5	283.6	275.0	262.6	246.3
47.5°	271.5	270.9	270.6	269.7	267.6	265.6	262.9	258.2	250.5	238.7	221.8
50°	239.2	238.1	238.7	238.4	237.5	236.0	234.2	231.0	225.0	214.4	199.0
52.5°	202.3	202.3	202.0	202.9	203.2	202.9	203.2	199.6	194.6	186.6	173.6
55°	163.8	163.8	164.7	165.9	167.1	167.4	167.1	165.6	162.1	155.6	144.0
57.5°	127.8	127.2	128.9	130.7	131.9	133.1	132.2	131.0	128.9	123.6	114.7
60°	97.3	97.3	98.5	99.7	100.8	102.0	101.7	101.4	99.7	96.1	89.0
62.5°	71.6	71.9	71.9	72.8	73.9	75.1	76.0	75.1	74.2	71.9	67.1
65°	51.2	50.9	51.2	52.0	52.9	54.1	54.7	54.4	53.5	51.8	48.2
67.5°	34.3	34.0	35.2	35.5	36.1	37.3	37.0	37.3	37.0	35.5	32.5
70°	22.5	21.9	22.5	22.2	23.1	23.4	24.0	24.2	24.0	23.1	22.2
72.5°	13.9	13.6	13.9	14.2	14.5	14.8	15.4	15.4	15.1	14.5	13.3
75°	8.9	8.0	8.3	7.7	8.3	8.3	8.9	9.2	8.9	8.9	8.3
77.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.6	5.9	5.3	5.0
80°	2.7	2.7	3.0	3.0	3.0	3.3	3.0	3.0	3.0	3.3	2.4
82.5°	2.1	1.8	1.8	1.8	2.1	1.8	1.8	1.8	1.8	1.8	1.8
85°	0.9	1.2	0.9	0.6	0.9	0.9	1.2	0.9	0.9	0.9	1.2
87.5°	0.3	0.3	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.6	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°	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2
2.5°	558.6	558.0	558.0	557.7	558.3	557.7	558.0	557.7	557.7	558.3	557.7
5°	560.7	561.0	560.4	560.1	561.0	561.0	561.0	560.4	560.4	560.7	560.4
7.5°	563.7	564.3	564.5	564.8	565.4	565.7	565.7	565.4	565.1	566.0	564.8
10°	566.9	567.8	569.6	570.5	571.9	571.9	572.5	572.5	571.9	572.5	572.2
12.5°	565.7	571.1	574.0	576.1	578.2	579.9	580.5	580.8	580.5	581.7	580.5
15°	567.8	572.2	577.0	580.5	584.4	586.4	587.0	589.4	590.0	590.3	588.5
17.5°	564.5	572.5	577.6	582.9	588.5	592.3	595.9	597.4	597.7	598.3	595.9
20°	557.2	566.0	573.7	581.4	587.9	593.8	596.8	600.9	599.7	602.1	598.9
22.5°	547.1	557.2	566.9	577.0	583.8	590.9	597.1	600.0	601.5	601.5	598.0
25°	531.1	543.0	553.6	564.0	574.3	582.9	590.0	594.4	595.3	595.0	590.9
27.5°	506.3	519.0	531.4	543.3	556.0	566.0	574.3	579.6	581.1	581.1	576.7
30°	472.0	485.6	497.7	511.9	524.9	536.2	547.7	552.4	555.1	555.1	550.1
32.5°	431.2	442.7	453.9	467.8	482.0	494.8	505.7	512.2	515.5	515.2	510.7
35°	386.8	392.4	401.0	411.4	424.1	435.9	446.6	452.8	458.4	458.1	453.9
37.5°	342.5	341.0	341.9	345.7	353.7	362.0	370.3	376.2	380.9	383.0	382.1
40°	299.0	291.3	283.9	281.2	281.8	284.8	289.2	293.7	299.0	301.6	302.8
42.5°	259.9	246.9	233.9	224.2	218.5	216.8	218.8	220.3	223.6	227.4	231.3
45°	228.6	211.2	194.0	178.9	169.5	163.8	162.7	163.8	165.6	169.5	174.5
47.5°	202.9	182.5	163.2	146.4	132.5	125.1	123.0	122.4	124.2	127.8	134.6
50°	180.1	159.7	138.4	118.9	104.4	96.1	93.2	92.0	94.0	96.7	102.9
52.5°	155.3	135.1	113.3	94.3	79.3	70.7	67.4	65.7	66.8	70.4	76.6
55°	128.3	109.7	89.9	70.4	55.9	47.9	44.1	42.9	44.1	47.9	54.1
57.5°	101.4	85.8	69.2	50.9	37.9	29.9	26.0	24.8	28.1	29.6	36.1
60°	79.3	66.5	52.3	37.3	26.0	19.8	16.0	15.1	16.6	19.2	24.5
62.5°	59.4	51.5	40.2	26.6	19.2	12.7	10.6	9.8	10.6	12.7	16.9
65°	43.2	37.0	28.1	19.5	13.0	9.5	7.1	6.5	7.4	8.9	12.4
67.5°	29.6	24.8	19.5	13.6	8.9	5.9	5.0	5.0	5.3	6.5	9.2
70°	19.2	16.3	12.4	8.9	5.9	4.4	3.8	3.3	3.8	4.7	6.2
72.5°	12.1	10.3	8.0	6.2	4.4	3.3	2.7	2.4	3.0	3.5	4.7
75°	7.4	5.6	4.1	3.3	2.4	2.4	2.4	1.2	1.5	2.4	3.0
77.5°	4.4	3.8	3.3	2.7	2.1	1.2	1.2	1.2	1.5	1.8	2.7
80°	2.4	2.1	1.5	1.5	1.2	0.9	1.2	0.9	0.6	1.5	1.8
82.5°	1.5	1.2	1.2	1.2	1.5	0.6	0.9	0.6	0.9	1.2	0.9
85°	0.9	0.9	0.9	0.6	1.5	0.6	0.6	0.3	0.3	0.6	0.6
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°	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2
2.5°	558.0	557.7	558.0	557.7	557.7	557.7	558.0	558.0	557.7	557.7	558.3
5°	560.4	560.4	560.4	560.1	559.8	559.8	560.4	560.4	559.5	560.4	560.4
7.5°	565.4	564.5	565.4	564.3	563.7	564.0	564.3	563.7	563.1	563.4	563.4
10°	571.9	571.1	571.1	570.2	569.3	568.7	568.1	566.6	565.1	564.8	563.7
12.5°	579.6	578.2	577.3	575.5	574.0	571.9	570.2	567.8	564.8	562.8	560.7
15°	587.3	585.0	582.9	579.9	576.7	573.1	569.3	565.4	560.7	556.6	553.0
17.5°	593.5	590.3	586.4	581.7	577.0	571.6	566.0	560.4	553.6	548.3	544.1
20°	595.6	590.9	585.8	579.6	573.4	566.0	558.9	551.5	543.8	538.2	533.5
22.5°	592.9	587.3	581.1	574.6	566.3	558.3	550.1	541.5	534.7	527.0	522.6
25°	585.5	578.7	571.9	564.3	556.3	547.4	538.5	529.7	521.4	517.2	511.6
27.5°	570.5	563.1	555.7	547.7	538.5	529.7	520.5	511.9	504.8	499.2	495.9
30°	543.8	535.3	526.7	518.1	510.1	501.0	492.4	485.3	478.2	473.8	470.5
32.5°	503.0	495.4	486.8	478.5	471.1	463.4	456.3	450.1	445.1	442.1	439.7
35°	448.0	440.3	433.8	427.9	421.7	418.5	414.0	410.5	408.4	407.2	406.9
37.5°	378.8	374.4	372.3	371.1	370.0	369.1	369.7	371.1	372.3	374.4	376.8
40°	304.9	308.7	309.9	314.1	317.9	322.9	328.6	335.1	340.4	347.2	351.9
42.5°	237.5	244.6	252.8	261.7	271.2	280.4	291.6	301.9	311.4	320.0	327.4
45°	182.5	193.4	205.8	218.5	231.3	244.6	258.2	270.9	282.1	291.3	299.0
47.5°	142.2	154.4	170.3	186.0	201.4	217.1	232.1	245.5	254.9	263.8	270.6
50°	112.7	126.6	144.0	162.1	178.9	195.5	211.4	223.9	233.3	240.4	245.5
52.5°	87.2	103.8	121.5	140.5	158.5	176.6	191.3	202.9	210.6	216.8	220.6
55°	65.1	81.3	100.3	119.8	138.1	155.6	169.5	179.5	186.3	189.9	191.9
57.5°	47.0	61.8	80.7	100.3	116.8	133.4	144.6	153.8	157.6	159.7	160.6
60°	34.3	47.9	64.8	81.6	97.3	110.6	120.4	126.6	129.5	130.7	130.4
62.5°	25.1	37.0	51.5	65.7	78.4	89.3	97.0	101.1	102.6	103.2	102.3
65°	19.2	28.4	40.8	51.8	61.5	69.5	75.1	77.8	78.7	78.4	77.8
67.5°	14.2	21.3	30.5	38.7	45.8	52.0	55.0	57.4	58.0	57.1	56.2
70°	10.1	15.7	22.2	27.8	33.1	36.7	39.9	40.2	40.2	39.9	39.3
72.5°	7.1	10.9	15.1	18.9	22.2	24.8	26.0	26.9	26.6	26.3	25.7
75°	4.7	6.8	10.9	11.8	14.8	15.7	16.9	16.9	17.1	16.3	16.3
77.5°	3.0	4.7	6.5	7.7	8.9	10.1	10.6	10.6	10.9	10.6	10.6
80°	1.8	3.0	3.5	5.3	5.3	6.2	6.5	6.8	6.2	7.1	6.2
82.5°	1.2	1.8	2.7	2.7	3.3	3.8	3.8	4.1	4.1	3.8	3.8
85°	0.9	1.2	1.5	1.8	1.8	2.1	1.8	1.8	2.1	2.4	2.1
87.5°	0.3	0.6	0.3	0.6	0.6	1.2	0.9	0.9	0.9	1.2	1.2
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°	557.2	557.2	557.2	557.2
2.5°	557.7	558.0	557.7	557.7
5°	560.4	560.1	560.4	559.8
7.5°	562.5	562.5	562.2	562.2
10°	562.5	561.3	561.3	561.3
12.5°	558.0	556.6	555.7	555.1
15°	550.4	547.7	546.5	546.2
17.5°	540.3	537.9	536.5	535.6
20°	528.8	526.4	524.6	524.9
22.5°	518.7	516.1	514.9	514.3
25°	508.7	505.4	504.5	503.9
27.5°	492.4	490.6	489.7	488.8
30°	467.5	466.7	465.2	467.3
32.5°	438.9	437.4	436.2	437.1
35°	407.2	406.3	407.2	406.6
37.5°	378.2	379.1	380.3	380.9
40°	355.5	358.7	359.9	360.5
42.5°	332.7	336.5	338.9	340.4
45°	304.6	308.4	311.1	312.9
47.5°	275.6	278.9	281.5	281.2
50°	249.3	251.1	252.3	253.4
52.5°	222.7	222.7	223.0	223.0
55°	192.5	191.9	191.6	191.9
57.5°	159.4	158.8	158.5	157.6
60°	129.2	127.5	126.3	126.3
62.5°	101.1	99.1	98.2	97.9
65°	76.0	75.7	73.9	73.6
67.5°	55.0	53.8	52.6	52.9
70°	38.7	37.0	37.0	36.4
72.5°	25.1	24.2	24.0	24.0
75°	15.7	15.7	15.1	16.3
77.5°	10.3	10.3	10.1	10.3
80°	6.2	6.2	6.2	5.9
82.5°	3.8	4.1	3.8	3.8
85°	2.1	2.4	1.8	2.7
87.5°	1.2	1.5	1.2	1.5
90°	0.0	0.0	0.0	0.0

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