

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: P246180

Luminaire Tested: **LSR8B10D010 EC8B10830 8LBDW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246180  
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 EC8B10830 8LBDW0MW  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1099.0 lumens  
Efficiency: N/A  
Efficacy: 107.7 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

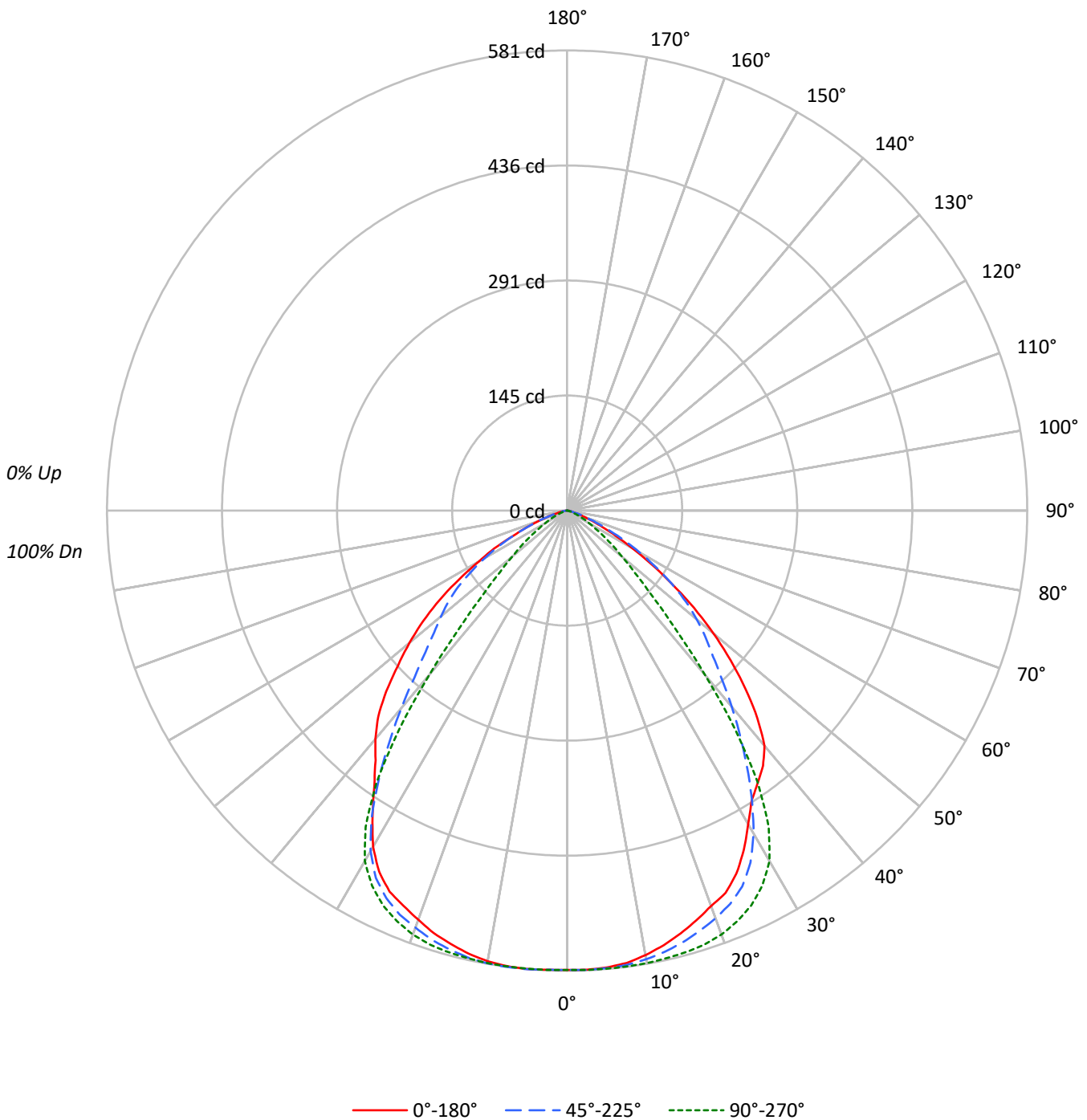
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	17882	17882	17882
5°	17919	17969	17987
10°	17845	18167	18089
15°	17648	18433	18085
20°	17435	18692	18039
25°	17209	18713	18057
30°	16279	18188	17444
35°	15796	15807	15969
40°	15598	10877	15160
45°	13898	6528	14090
50°	11557	4346	12454
55°	8666	2995	10559
60°	5871	1998	7968
65°	3546	1291	5472
70°	1965	703	3363
75°	894	298	1739
80°	781	337	1208
85°	885	425	1203



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.3	5.0
10°-20°	160.7	14.6
20°-30°	243.9	22.2
30°-40°	256.2	23.3
40°-50°	192.1	17.5
50°-60°	123.2	11.2
60°-70°	52.7	4.8
70°-80°	12.5	1.1
80°-90°	2.3	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°	460.0	41.9
0°-40°	716.2	65.2
0°-60°	1031.5	93.9
0°-90°	1099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1099.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	580	580	580	580	580	
5°	579	580	580	581	581	55
15°	553	564	577	574	566	156
25°	506	524	550	540	531	231
35°	420	396	420	415	424	263
45°	319	260	150	253	323	244
55°	161	161	56	168	196	146
65°	49	57	18	74	75	52
75°	8	9	2	15	15	11
85°	2	2	1	2	3	3
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°	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9
2.5°	580.2	580.8	580.5	580.5	580.2	580.5	580.5	581.1	581.1	580.5	580.2
5°	578.9	579.5	579.5	578.9	578.9	580.5	579.5	580.2	580.2	579.9	579.9
7.5°	576.1	576.1	577.4	576.4	576.4	577.4	577.1	577.7	578.3	578.6	578.6
10°	569.9	570.5	570.8	570.8	571.1	572.1	572.7	573.9	574.6	575.2	575.5
12.5°	562.1	563.0	563.4	563.0	564.0	565.2	566.8	568.3	569.3	570.5	571.5
15°	552.8	552.8	553.4	554.3	555.0	556.8	558.4	560.2	562.7	564.3	565.8
17.5°	542.5	543.1	544.1	544.1	545.3	548.4	549.4	552.2	555.0	556.5	559.6
20°	531.3	531.9	532.9	533.5	535.0	537.5	539.4	541.9	545.0	547.8	550.9
22.5°	522.6	521.3	522.0	522.6	524.1	526.3	528.5	531.6	534.7	537.5	540.6
25°	505.8	506.1	507.0	507.6	509.5	511.4	513.9	517.6	520.4	523.5	526.9
27.5°	483.1	483.4	484.9	484.9	486.5	489.6	491.1	494.3	498.0	501.1	505.2
30°	457.2	457.8	457.8	459.1	460.0	461.6	463.1	466.3	468.1	470.9	476.5
32.5°	433.6	434.2	433.9	433.6	432.6	432.3	432.0	432.6	433.3	434.2	436.4
35°	419.6	418.0	416.8	414.6	412.1	409.0	406.2	402.4	399.0	396.2	393.1
37.5°	406.2	405.9	404.0	400.9	395.9	390.3	383.8	375.7	367.6	358.9	350.5
40°	387.5	386.6	385.0	380.7	375.1	368.2	359.5	349.5	336.5	323.1	309.4
42.5°	355.8	356.1	354.2	350.8	345.5	338.9	329.9	319.0	305.0	289.1	271.4
45°	318.7	318.7	318.1	315.3	311.6	306.3	299.4	290.4	276.7	260.5	241.5
47.5°	280.1	280.4	279.5	278.9	277.3	273.9	268.9	262.1	252.4	236.9	217.9
50°	240.9	240.9	242.5	242.1	242.1	240.9	238.7	234.7	226.3	213.8	196.1
52.5°	201.7	202.3	203.2	204.5	206.0	208.5	206.0	204.2	198.9	189.2	174.0
55°	161.2	161.8	163.4	165.6	167.5	169.9	170.6	170.6	167.8	161.2	149.7
57.5°	126.7	125.7	127.0	128.9	131.3	133.8	135.7	137.9	137.6	133.2	123.9
60°	95.2	95.6	96.5	98.4	100.2	102.4	104.9	106.8	107.7	105.5	99.6
62.5°	69.4	69.4	70.7	72.5	73.5	76.6	78.1	79.1	80.0	79.7	75.9
65°	48.6	49.2	49.8	50.7	51.7	53.5	54.5	56.3	57.0	57.3	54.5
67.5°	34.2	33.3	33.9	34.5	35.5	36.7	38.6	38.6	39.5	39.5	37.7
70°	21.8	21.8	22.1	23.0	23.7	24.0	24.6	25.2	26.1	25.8	25.8
72.5°	14.6	14.3	14.6	14.9	15.3	16.2	16.2	16.5	17.1	17.4	16.2
75°	7.5	7.8	8.4	8.1	9.0	8.4	8.7	9.6	9.3	8.7	8.7
77.5°	6.2	6.2	6.2	5.9	6.5	6.5	6.2	6.8	6.5	6.5	6.2
80°	4.4	4.7	4.4	4.0	4.4	4.0	4.0	4.0	4.0	4.0	3.7
82.5°	3.4	2.8	3.1	2.8	3.1	3.1	2.8	2.5	2.5	2.8	2.5
85°	2.5	1.9	2.2	2.2	1.9	1.9	1.9	1.9	1.9	1.6	1.6
87.5°	1.6	0.9	0.9	0.9	1.2	1.2	1.2	0.9	1.2	1.2	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°	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9
2.5°	580.8	580.5	581.1	580.8	580.8	580.5	580.8	580.5	581.1	579.9	580.2
5°	580.8	580.2	580.5	580.8	581.1	580.5	580.5	580.5	581.1	580.5	580.8
7.5°	579.5	579.2	580.2	580.8	580.5	580.2	580.8	580.5	581.1	580.8	581.4
10°	577.1	577.4	578.0	578.9	579.2	579.5	580.2	580.2	581.1	579.9	580.5
12.5°	573.3	574.6	576.1	576.7	578.0	578.0	578.6	578.9	579.5	579.2	580.2
15°	568.7	570.2	572.1	573.6	575.2	576.1	577.1	577.4	578.3	577.4	577.7
17.5°	563.0	564.9	567.7	569.6	572.1	573.0	574.2	574.9	575.8	575.2	575.5
20°	555.3	557.4	560.6	563.4	564.9	567.1	568.7	569.6	570.2	569.6	569.9
22.5°	544.4	547.5	551.5	553.7	556.8	558.7	559.0	561.2	562.7	561.2	561.8
25°	531.6	534.7	537.8	542.5	545.3	547.5	549.7	550.0	551.5	551.2	550.9
27.5°	510.4	514.5	519.8	523.5	527.3	530.7	533.2	533.8	535.3	534.7	535.0
30°	481.5	485.9	490.8	496.8	502.0	505.5	508.6	510.8	512.3	511.4	511.1
32.5°	440.4	444.8	450.1	456.0	462.2	467.2	470.9	473.7	475.6	475.0	473.4
35°	393.4	394.7	398.1	402.8	408.0	413.3	416.8	419.9	422.0	422.7	422.7
37.5°	345.2	341.1	338.6	338.6	341.7	343.9	347.0	348.9	352.3	353.6	354.5
40°	298.5	289.1	280.4	273.9	269.5	269.2	269.2	270.2	273.3	277.3	281.1
42.5°	256.8	241.8	228.5	216.3	207.6	202.6	200.4	200.8	203.2	207.0	213.2
45°	223.5	204.8	188.0	173.4	161.5	153.8	150.0	149.7	151.6	155.9	162.8
47.5°	197.6	177.7	158.7	141.9	129.2	120.8	116.4	115.2	116.4	120.5	128.5
50°	176.2	155.6	136.0	118.6	104.9	96.2	92.1	90.6	92.1	95.6	103.6
52.5°	156.2	135.1	116.7	99.9	85.3	77.8	73.5	72.5	73.5	77.5	84.0
55°	133.2	115.2	97.1	80.3	67.5	60.1	56.6	55.7	56.6	60.4	67.2
57.5°	110.5	94.9	79.1	63.8	52.9	46.4	43.3	42.0	44.2	46.7	54.8
60°	89.3	76.9	63.5	50.1	41.1	35.2	32.7	32.4	33.0	36.1	41.7
62.5°	70.0	59.8	49.2	38.3	30.8	28.3	25.2	24.9	25.5	27.4	31.7
65°	50.4	43.9	35.8	28.0	22.1	18.7	17.4	17.7	18.4	19.6	23.7
67.5°	35.2	30.5	24.9	19.6	15.3	13.7	12.5	12.1	12.5	14.6	16.8
70°	23.7	20.9	16.8	14.9	10.6	8.4	8.7	7.8	9.0	9.0	10.9
72.5°	15.6	13.7	11.2	8.7	7.5	5.9	5.9	5.6	6.2	6.5	8.1
75°	8.1	6.2	6.2	4.4	3.1	1.6	2.8	2.5	2.2	2.5	3.1
77.5°	5.6	4.7	4.4	3.4	3.1	2.5	2.5	2.5	2.5	2.8	3.1
80°	3.4	3.4	2.5	2.2	1.9	1.6	1.9	1.9	1.9	1.9	2.2
82.5°	2.2	1.9	1.9	1.6	1.6	1.2	1.2	1.2	1.2	1.2	1.9
85°	1.9	1.2	1.2	0.9	1.2	2.2	0.9	1.2	1.2	1.2	0.9
87.5°	0.6	0.9	0.9	0.9	0.6	0.3	0.6	0.9	0.9	1.6	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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9
2.5°	580.8	581.1	581.1	580.8	580.8	580.2	581.4	580.5	580.8	582.0	581.1
5°	581.4	581.7	581.7	581.4	581.4	581.4	581.7	581.7	581.4	581.1	581.7
7.5°	582.7	582.3	582.3	581.7	581.7	581.1	581.7	580.8	581.4	580.8	581.7
10°	581.1	581.4	581.1	580.8	580.8	580.5	580.5	579.5	579.9	578.9	579.5
12.5°	580.2	579.9	579.9	579.2	578.6	578.0	577.7	576.7	576.7	574.6	575.5
15°	577.7	578.0	577.1	575.8	575.2	573.6	573.0	571.8	570.5	569.0	569.3
17.5°	575.5	574.6	573.3	572.1	569.6	568.3	567.1	565.2	564.6	562.7	562.1
20°	569.0	568.3	566.8	564.6	563.0	560.2	559.0	557.1	555.6	553.7	552.8
22.5°	560.6	559.9	558.1	555.9	553.4	552.2	550.9	547.5	545.9	544.1	543.7
25°	550.0	549.0	547.2	544.7	543.4	540.0	538.8	536.3	535.7	533.8	533.5
27.5°	533.8	532.5	530.4	527.3	525.1	522.9	521.7	519.8	519.2	517.3	517.0
30°	509.5	508.0	503.6	502.4	498.6	496.4	496.4	493.9	494.3	493.0	493.0
32.5°	471.2	468.7	465.3	462.8	460.3	459.1	459.1	458.2	458.8	458.8	459.4
35°	420.5	417.1	415.2	413.6	413.6	414.9	418.6	419.6	421.4	423.0	424.2
37.5°	355.4	355.1	357.3	359.2	363.8	369.1	375.7	381.3	386.6	390.3	394.0
40°	285.1	292.9	299.1	307.8	315.0	325.3	337.1	346.7	355.8	362.3	369.1
42.5°	222.5	232.5	245.6	258.3	271.1	285.1	300.7	314.0	325.9	334.9	342.1
45°	173.4	187.1	202.9	219.1	235.6	253.0	269.2	282.9	295.4	304.7	311.9
47.5°	139.7	154.7	172.7	190.5	209.2	227.5	245.6	257.4	267.7	275.1	281.7
50°	115.5	131.3	150.3	170.6	189.2	207.6	223.2	234.7	243.1	249.6	253.7
52.5°	96.5	113.3	133.5	153.8	172.4	189.2	203.2	212.0	218.8	223.5	227.2
55°	79.7	95.9	114.9	133.8	152.2	168.1	179.6	186.1	191.4	194.2	196.4
57.5°	65.1	80.0	97.4	114.9	130.7	143.8	152.8	159.4	161.8	164.0	163.7
60°	51.0	65.1	80.9	95.9	109.6	120.1	126.7	130.4	132.3	133.2	132.6
62.5°	40.2	52.9	65.1	78.1	88.1	97.1	103.3	103.3	104.3	104.6	105.5
65°	29.9	39.5	50.1	59.8	67.8	73.8	77.2	78.1	79.4	79.1	78.4
67.5°	22.1	29.3	37.0	44.2	49.8	53.5	56.0	58.2	57.9	57.3	57.0
70°	15.3	19.9	26.8	31.1	35.2	38.9	39.5	39.8	40.2	40.5	39.8
72.5°	10.6	14.0	17.7	21.5	24.0	25.5	27.1	27.4	27.4	27.4	27.1
75°	5.3	7.2	10.6	12.1	14.3	14.9	16.2	16.2	17.1	15.9	15.6
77.5°	4.7	5.6	7.5	8.7	9.6	10.6	10.9	11.8	11.5	10.9	11.2
80°	2.8	3.4	4.7	5.3	6.5	6.8	7.2	7.5	7.2	7.5	7.5
82.5°	2.2	2.5	3.1	3.1	4.0	4.0	4.4	4.4	4.7	4.7	4.7
85°	1.2	2.2	1.9	3.7	2.5	2.5	3.1	3.7	3.1	3.1	3.7
87.5°	1.2	1.2	0.9	1.2	1.2	1.2	1.6	1.9	1.9	2.2	1.9
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):**

	165°	170°	175°	180°
0°	579.9	579.9	579.9	579.9
2.5°	580.8	581.4	580.5	580.2
5°	581.7	581.7	581.1	581.1
7.5°	581.7	581.7	580.8	580.2
10°	579.2	579.2	578.3	577.7
12.5°	574.6	574.6	574.2	573.3
15°	568.7	568.7	567.4	566.5
17.5°	560.6	561.2	559.6	559.6
20°	551.8	551.5	550.3	549.7
22.5°	542.8	542.2	541.9	540.0
25°	533.2	532.5	531.6	530.7
27.5°	516.7	516.4	515.4	514.2
30°	491.5	491.1	489.9	489.9
32.5°	458.8	458.5	457.2	457.5
35°	424.9	426.1	425.5	424.2
37.5°	396.5	397.5	398.1	397.5
40°	372.9	375.7	376.0	376.6
42.5°	347.7	351.4	352.6	353.3
45°	317.5	320.9	323.7	323.1
47.5°	286.7	289.1	291.6	289.8
50°	257.1	258.6	259.6	259.6
52.5°	229.1	229.1	228.8	229.1
55°	197.0	197.0	195.8	196.4
57.5°	163.4	164.0	163.1	161.5
60°	132.3	130.7	130.1	129.2
62.5°	103.0	103.0	100.8	103.6
65°	77.2	76.3	75.3	75.0
67.5°	56.0	55.7	54.8	54.5
70°	39.5	38.3	38.0	37.3
72.5°	26.5	26.5	25.8	25.8
75°	16.2	14.6	14.3	14.6
77.5°	11.2	10.9	10.9	10.6
80°	7.5	7.2	7.8	6.8
82.5°	4.7	5.0	4.7	5.0
85°	3.1	3.7	3.4	3.4
87.5°	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0

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