

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: P245448

Luminaire Tested: **LSR8B10D010 EC8B109730 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245448  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B10D010 EC8B109730 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 856.0 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

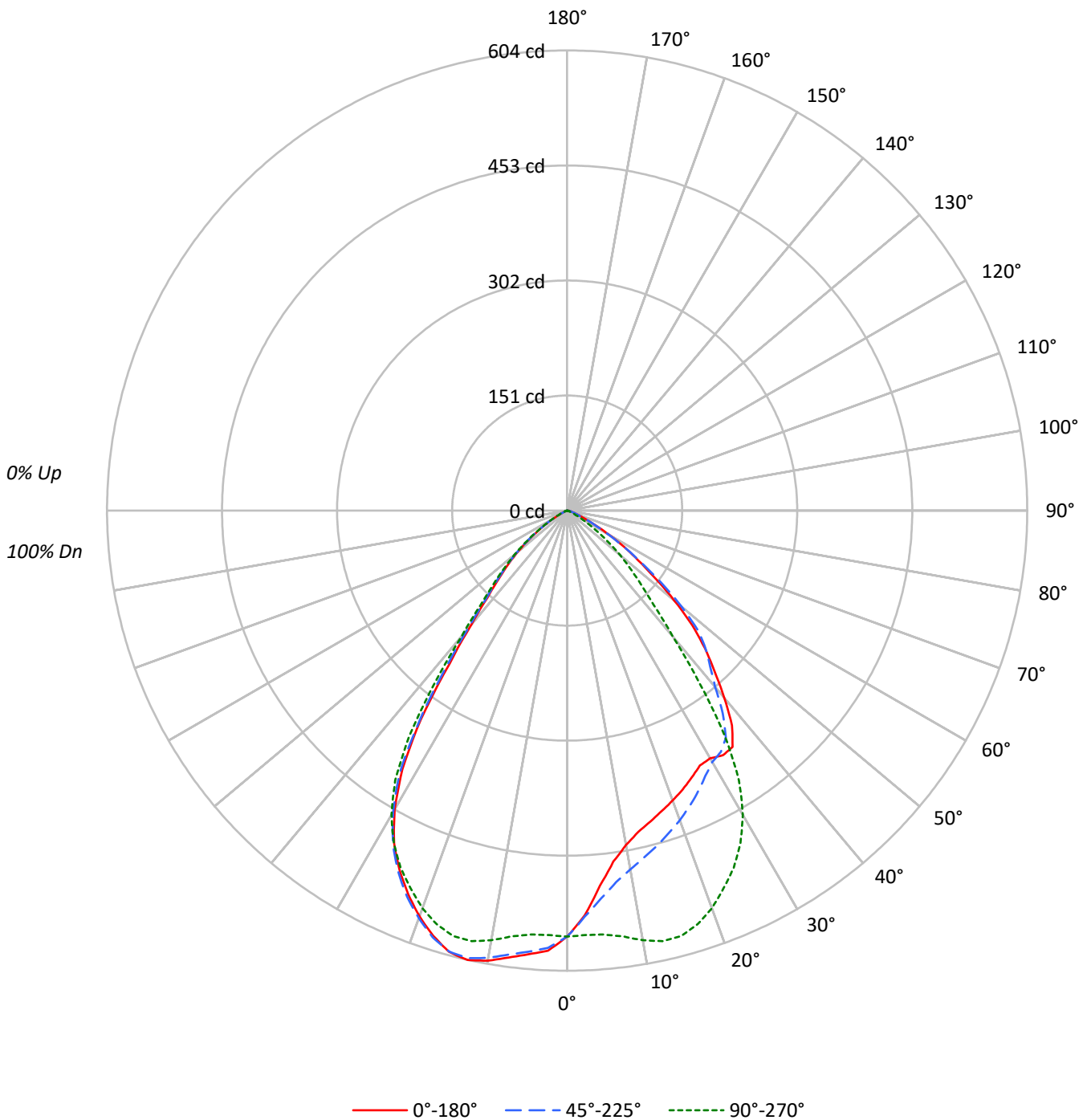
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39

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

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.1	6.1
10°-20°	150.5	17.6
20°-30°	218.5	25.5
30°-40°	215.2	25.1
40°-50°	134.9	15.8
50°-60°	65.1	7.6
60°-70°	15.7	1.8
70°-80°	3.2	0.4
80°-90°	0.7	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°	421.2	49.2
0°-40°	636.3	74.3
0°-60°	836.3	97.7
0°-90°	856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	856.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	559	559	559	559	559	
5°	494	511	558	581	585	46
15°	422	456	578	599	600	119
25°	387	407	517	524	520	179
35°	379	363	361	340	335	229
45°	256	257	136	131	127	195
55°	114	117	50	49	47	105
65°	27	26	7	6	6	30
75°	6	6	2	1	1	7
85°	2	2	0	0	0	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2
2.5°	531.6	528.2	521.9	529.5	529.5	525.3	533.8	528.6	532.8	539.2	533.5
5°	494.3	491.5	486.2	494.3	495.3	491.3	501.6	497.8	503.8	511.7	511.0
7.5°	464.7	461.2	456.4	464.7	466.3	463.7	473.5	471.8	479.7	490.0	491.8
10°	445.5	441.8	437.6	445.2	446.4	444.6	454.6	453.6	461.4	473.3	478.0
12.5°	431.8	428.7	424.0	432.1	433.4	430.9	440.3	439.9	448.0	460.5	466.3
15°	422.3	418.6	414.3	421.2	423.0	420.2	429.2	428.3	436.5	448.9	455.5
17.5°	413.3	409.9	405.5	412.0	413.7	410.8	419.6	418.2	425.2	437.0	443.7
20°	404.9	401.3	397.3	403.9	404.9	401.6	410.4	408.5	414.8	425.7	432.3
22.5°	396.3	392.4	388.3	394.8	395.8	392.4	400.5	398.3	404.2	414.0	420.1
25°	386.7	383.2	379.1	385.1	386.0	382.3	390.8	388.0	393.2	401.8	406.8
27.5°	377.2	373.8	369.2	375.4	375.8	372.3	380.1	376.3	380.5	388.5	392.7
30°	375.5	371.7	367.0	372.0	372.2	367.6	375.0	370.4	372.8	378.6	381.1
32.5°	380.7	376.9	372.0	376.1	375.7	370.7	377.8	372.2	372.9	376.0	375.4
35°	378.6	374.1	368.3	372.8	372.8	366.7	373.8	367.2	366.4	366.9	363.2
37.5°	355.3	351.7	346.3	350.6	350.1	345.6	351.0	345.6	343.1	342.0	335.4
40°	320.9	316.6	312.5	317.1	317.5	312.7	319.7	313.5	312.8	309.9	302.1
42.5°	286.1	284.6	280.6	284.5	286.5	282.4	288.3	285.3	285.8	285.0	277.7
45°	255.7	253.2	250.2	254.6	255.9	253.9	259.8	258.0	259.8	263.4	257.4
47.5°	222.9	220.4	217.2	221.9	224.2	220.4	225.4	224.8	227.4	233.8	233.2
50°	183.4	181.6	181.0	181.6	183.1	181.3	184.8	185.0	186.7	195.4	196.0
52.5°	145.2	144.7	142.7	144.6	144.6	141.8	145.3	143.7	145.5	151.3	155.2
55°	113.6	113.1	111.8	113.6	111.7	110.6	111.7	110.0	108.7	113.3	117.2
57.5°	88.5	87.0	85.4	86.1	86.0	83.7	84.9	83.0	82.0	83.6	87.1
60°	63.0	62.6	61.1	61.9	62.4	60.8	62.0	61.1	59.4	60.7	60.8
62.5°	41.9	42.2	41.3	41.4	41.0	40.7	41.4	41.9	41.4	40.8	41.0
65°	26.6	26.4	26.3	26.4	26.7	26.2	26.6	26.9	26.4	26.4	26.3
67.5°	17.6	17.2	16.7	17.0	17.3	16.9	17.3	17.2	17.3	17.2	16.7
70°	11.9	11.8	11.6	11.8	11.8	11.5	11.8	11.6	11.8	11.6	11.2
72.5°	8.7	8.7	8.5	8.7	8.7	8.4	8.5	8.2	8.4	8.2	7.9
75°	6.5	6.5	6.3	6.5	6.3	6.2	6.3	6.2	5.9	5.9	5.6
77.5°	4.7	4.7	4.7	4.7	4.7	4.6	4.6	4.4	4.3	4.1	4.1
80°	3.5	3.4	3.4	3.4	3.4	3.2	3.4	3.2	3.1	2.9	2.8
82.5°	2.5	2.6	2.5	2.5	2.5	2.4	2.5	2.4	2.4	2.2	1.9
85°	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.6	1.6	1.5
87.5°	1.0	1.0	1.0	1.2	1.0	1.0	1.0	0.9	0.9	0.7	0.7
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2
2.5°	541.1	541.9	540.3	542.8	552.4	544.7	547.9	548.9	556.3	557.6	556.7
5°	520.6	523.8	525.9	531.4	542.2	536.6	542.3	546.0	555.4	558.5	559.2
7.5°	504.4	511.2	516.2	525.3	537.9	533.6	542.3	548.3	559.8	563.8	565.7
10°	492.4	502.6	511.3	523.8	538.0	535.3	546.6	555.1	567.9	572.6	574.9
12.5°	483.2	495.7	507.3	523.2	538.6	537.3	551.0	560.7	574.2	578.9	581.7
15°	473.3	487.7	501.2	518.9	535.6	535.3	550.0	560.2	574.0	578.0	580.7
17.5°	461.4	476.8	491.6	510.9	527.3	527.6	542.5	552.6	566.1	569.3	571.1
20°	449.3	464.6	479.4	499.3	515.4	515.9	530.4	539.8	552.7	555.4	555.8
22.5°	436.5	450.8	465.6	485.3	500.9	501.2	515.6	524.4	535.4	536.7	537.9
25°	422.0	435.9	449.9	469.4	484.3	485.2	498.2	506.0	516.2	517.2	517.6
27.5°	406.8	418.3	431.7	448.4	463.4	462.8	475.2	484.0	493.1	492.5	492.4
30°	391.6	401.1	409.3	425.5	436.5	437.0	448.6	452.8	462.4	461.2	461.1
32.5°	380.8	383.3	385.5	393.8	404.2	400.5	408.5	413.7	420.4	419.9	420.1
35°	361.1	356.6	350.0	351.2	357.5	351.7	356.0	355.9	362.6	361.0	362.9
37.5°	327.5	314.6	299.9	291.5	292.7	285.5	284.0	287.5	289.9	285.3	287.0
40°	291.7	272.6	249.6	230.5	229.5	220.5	218.9	215.4	220.0	216.1	217.3
42.5°	265.2	239.9	209.8	186.6	181.6	174.1	169.7	169.1	170.4	167.8	167.1
45°	244.9	218.0	183.5	156.9	151.3	143.3	138.8	137.2	137.4	136.5	135.8
47.5°	221.1	194.1	159.1	131.9	125.6	118.0	113.6	112.5	113.1	112.0	111.1
50°	188.2	164.0	132.1	107.3	101.7	96.1	92.6	91.5	91.4	90.5	89.9
52.5°	152.8	132.7	105.1	84.3	79.3	73.9	71.4	70.1	70.2	69.3	68.5
55°	118.3	105.8	81.4	63.8	59.2	55.0	52.6	51.0	50.5	49.7	49.2
57.5°	88.0	79.6	61.0	46.0	43.3	39.2	36.9	35.0	34.7	34.2	34.1
60°	61.7	55.7	42.9	32.8	29.7	27.2	24.8	22.9	22.0	21.9	21.5
62.5°	40.0	36.3	28.2	21.9	19.5	17.8	15.4	14.1	13.5	12.9	13.1
65°	24.8	22.0	17.6	14.1	12.8	11.5	9.7	8.5	7.9	7.3	7.5
67.5°	15.4	13.8	11.2	9.1	8.2	7.2	5.9	5.0	4.6	4.1	3.8
70°	10.4	9.0	7.6	6.5	5.9	5.1	4.3	3.5	3.2	2.9	2.6
72.5°	7.3	6.6	5.6	4.8	4.4	3.8	3.2	2.8	2.5	2.2	1.9
75°	5.3	4.7	4.1	3.5	3.2	2.9	2.5	2.2	1.9	1.6	1.3
77.5°	3.8	3.4	2.9	2.6	2.5	2.1	1.8	1.6	1.5	1.2	0.9
80°	2.6	2.4	1.9	1.8	1.8	1.5	1.3	1.2	1.0	0.7	0.6
82.5°	1.8	1.6	1.5	1.3	1.2	1.0	1.0	0.7	0.6	0.4	0.3
85°	1.3	1.2	1.0	0.9	0.9	0.7	0.6	0.4	0.4	0.3	0.1
87.5°	0.7	0.7	0.6	0.4	0.4	0.3	0.3	0.1	0.1	0.1	0.1
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2
2.5°	564.2	564.6	567.1	565.2	570.1	573.6	571.8	575.8	574.5	574.2	578.7
5°	568.0	569.1	572.4	570.7	576.0	579.8	578.0	582.4	581.1	580.8	585.5
7.5°	575.4	576.4	579.3	577.9	583.5	586.8	584.6	589.5	587.7	587.6	592.1
10°	584.6	586.1	588.6	587.1	592.3	595.2	593.0	597.7	596.1	595.4	600.3
12.5°	591.5	592.6	595.1	593.9	598.9	601.1	599.2	603.7	601.7	601.1	605.5
15°	589.9	590.9	593.0	592.0	596.7	598.7	596.2	601.2	599.2	598.0	602.0
17.5°	579.6	580.2	581.7	580.7	585.7	587.0	584.2	589.2	587.3	585.2	589.0
20°	564.5	564.2	565.1	564.6	568.8	569.5	567.7	571.4	569.2	568.0	570.2
22.5°	545.7	545.4	546.0	544.8	548.9	549.4	546.7	551.1	548.9	546.7	550.4
25°	524.8	523.2	522.9	523.4	526.1	526.6	523.8	527.0	524.2	522.5	526.0
27.5°	499.1	497.1	496.6	497.1	499.8	497.8	495.4	497.8	495.0	493.4	495.6
30°	467.4	464.4	463.1	462.2	465.2	464.4	459.0	461.6	457.2	454.9	456.5
32.5°	424.6	423.0	419.5	417.4	420.2	414.6	411.3	411.3	409.5	405.5	406.4
35°	365.3	362.8	359.5	357.8	358.2	350.7	345.1	346.3	340.4	339.4	339.8
37.5°	290.2	286.1	284.9	281.2	282.1	275.5	267.8	268.0	264.9	261.7	260.7
40°	218.0	217.3	216.1	213.0	214.2	207.0	204.1	204.2	202.2	199.8	201.0
42.5°	168.5	166.2	165.4	164.4	164.7	163.5	159.7	160.2	158.4	157.8	157.2
45°	136.9	134.4	132.7	133.6	133.6	132.2	130.8	131.6	130.8	129.6	130.2
47.5°	112.8	110.5	109.6	109.5	110.5	109.6	108.1	108.4	108.3	107.8	107.6
50°	90.1	89.5	88.7	88.3	88.7	88.5	87.1	87.9	88.3	86.8	87.3
52.5°	68.6	68.6	68.5	67.4	68.3	67.4	67.3	67.6	67.1	66.6	66.4
55°	50.2	49.8	49.1	48.9	49.2	48.9	48.6	48.8	49.1	47.6	47.6
57.5°	34.4	34.1	33.6	33.6	34.2	33.5	33.1	33.6	33.1	32.5	32.5
60°	22.0	21.9	21.5	21.5	21.5	21.3	20.9	21.0	21.3	20.4	20.6
62.5°	13.2	12.8	12.6	12.5	12.6	12.5	12.5	12.3	12.2	12.2	11.8
65°	7.2	6.9	6.6	6.8	6.8	6.6	6.6	6.6	6.3	6.2	6.0
67.5°	3.7	3.4	3.4	3.2	3.2	3.2	3.2	3.1	3.1	3.1	2.9
70°	2.4	2.2	2.1	2.1	2.1	1.9	1.9	1.9	1.9	1.9	1.8
72.5°	1.6	1.5	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.0	1.0
75°	1.2	1.0	0.9	0.9	0.9	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.3
80°	0.4	0.4	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1
82.5°	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
85°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
87.5°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2
2.5°	577.1	576.0	576.7	582.1	579.8	579.0	572.9	578.3
5°	584.0	583.2	583.2	589.3	586.5	585.9	579.9	584.6
7.5°	590.5	589.6	589.8	596.1	593.9	593.0	587.0	591.7
10°	598.9	598.3	598.4	604.5	602.1	601.2	595.1	599.9
12.5°	603.9	603.0	603.0	609.5	606.8	605.5	599.6	604.3
15°	600.1	598.7	598.7	605.2	602.3	600.3	595.2	599.6
17.5°	587.0	585.7	585.7	591.2	589.0	586.2	581.0	585.1
20°	568.8	567.1	566.7	573.2	570.1	567.6	562.9	566.8
22.5°	548.2	547.5	546.1	552.6	549.8	547.2	542.2	545.2
25°	523.5	522.3	521.0	527.3	524.5	521.9	517.9	520.4
27.5°	492.8	492.9	492.2	497.2	494.4	492.9	488.1	492.2
30°	455.6	454.0	453.4	459.3	456.7	454.7	448.7	452.7
32.5°	407.1	404.8	401.7	408.3	403.8	402.1	397.0	402.7
35°	336.6	335.9	333.1	338.7	336.2	333.2	330.0	334.8
37.5°	260.2	260.8	260.5	262.0	260.5	258.6	255.1	253.3
40°	198.6	197.2	196.0	198.6	195.6	195.6	193.5	195.7
42.5°	155.7	155.2	156.6	157.2	155.4	155.2	154.9	154.7
45°	128.6	128.6	128.9	129.4	128.9	128.6	127.7	127.1
47.5°	105.9	106.5	105.9	107.8	106.8	106.5	104.8	105.5
50°	85.8	85.1	85.8	86.4	86.5	85.7	84.8	85.2
52.5°	66.6	65.4	65.1	66.0	65.4	65.4	64.8	64.6
55°	46.9	47.3	46.6	47.3	47.0	46.6	46.1	46.7
57.5°	31.7	31.9	31.6	32.0	31.3	31.4	31.3	31.1
60°	20.6	20.0	20.0	20.4	19.7	19.7	19.5	19.5
62.5°	11.8	11.6	11.6	11.5	11.3	11.3	11.3	11.0
65°	6.0	5.9	5.7	5.7	5.7	5.7	5.6	5.6
67.5°	2.9	2.8	2.8	2.9	2.8	2.8	2.8	2.8
70°	1.8	1.8	1.6	1.8	1.6	1.6	1.6	1.6
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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