

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: P245442

Luminaire Tested: **LSR8B10D010 EC8B10927 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245442
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 EC8B10927 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 910.1 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

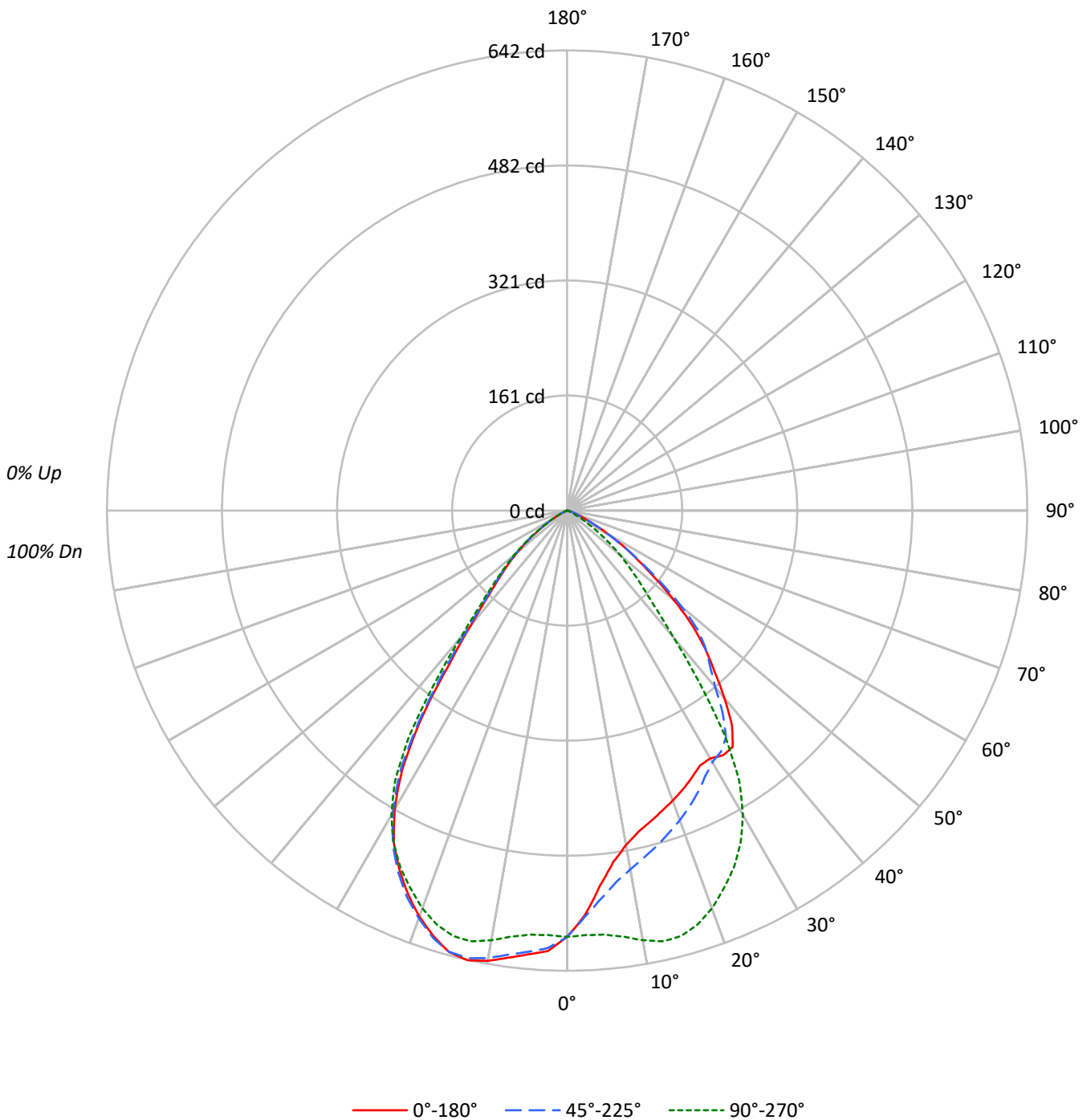
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	18335	18335	18335
5°	16266	18381	19241
10°	14829	19060	19974
15°	14334	19621	20352
20°	14127	19377	19778
25°	13991	18710	18826
30°	14218	17462	17138
35°	15152	14448	13405
40°	13735	9250	8377
45°	11853	6328	5892
50°	9355	4615	4346
55°	6489	2839	2672
60°	4132	1437	1283
65°	2058	569	438
70°	1136	289	153
75°	822	203	83
80°	657	142	18
85°	708	106	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.4	6.1
10°-20°	160.1	17.6
20°-30°	232.3	25.5
30°-40°	228.8	25.1
40°-50°	143.4	15.8
50°-60°	69.2	7.6
60°-70°	16.7	1.8
70°-80°	3.4	0.4
80°-90°	0.8	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°	447.8	49.2
0°-40°	676.6	74.3
0°-60°	889.2	97.7
0°-90°	910.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	910.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	595	595	595	595	595	
5°	526	543	594	618	622	49
15°	449	484	615	637	638	127
25°	411	433	550	557	553	190
35°	402	386	384	362	356	244
45°	272	274	145	139	135	208
55°	121	125	53	52	50	111
65°	28	28	8	7	6	32
75°	7	6	2	1	1	8
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°	594.6	594.6	594.6	594.6	594.6	594.6	594.6	594.6	594.6	594.6	594.6
2.5°	565.2	561.6	554.8	563.1	563.1	558.4	567.6	562.1	566.4	573.3	567.2
5°	525.5	522.6	516.9	525.5	526.6	522.3	533.4	529.3	535.7	544.2	543.4
7.5°	494.1	490.4	485.2	494.1	495.8	493.0	503.4	501.6	510.1	521.0	522.9
10°	473.6	469.8	465.2	473.3	474.6	472.7	483.3	482.3	490.5	503.2	508.2
12.5°	459.1	455.8	450.9	459.4	460.8	458.2	468.2	467.7	476.3	489.6	495.8
15°	449.0	445.0	440.6	447.9	449.8	446.7	456.3	455.4	464.2	477.2	484.3
17.5°	439.4	435.8	431.2	438.1	439.9	436.8	446.2	444.6	452.1	464.6	471.8
20°	430.5	426.6	422.4	429.4	430.5	426.9	436.3	434.2	441.0	452.6	459.6
22.5°	421.3	417.3	412.9	419.7	420.9	417.3	425.8	423.6	429.8	440.2	446.6
25°	411.2	407.4	403.1	409.5	410.4	406.5	415.6	412.5	418.0	427.3	432.6
27.5°	401.1	397.5	392.6	399.2	399.6	395.9	404.1	400.0	404.6	413.0	417.6
30°	399.3	395.2	390.3	395.6	395.7	390.8	398.7	393.9	396.3	402.5	405.2
32.5°	404.8	400.7	395.6	399.9	399.5	394.1	401.6	395.7	396.4	399.7	399.2
35°	402.5	397.7	391.6	396.3	396.3	389.9	397.5	390.4	389.6	390.0	386.2
37.5°	377.8	374.0	368.2	372.7	372.3	367.4	373.2	367.4	364.7	363.7	356.6
40°	341.2	336.6	332.3	337.2	337.6	332.4	340.0	333.3	332.6	329.5	321.2
42.5°	304.2	302.6	298.3	302.4	304.7	300.3	306.4	303.4	303.9	303.1	295.2
45°	271.8	269.2	266.1	270.7	272.1	270.0	276.2	274.3	276.2	280.1	273.7
47.5°	237.0	234.3	230.8	235.9	238.4	234.3	239.6	239.1	241.9	248.5	248.0
50°	195.0	193.0	192.5	193.0	194.6	192.8	196.5	196.6	198.6	207.8	208.4
52.5°	154.4	153.9	151.6	153.7	153.7	150.8	154.5	152.8	154.7	160.9	164.9
55°	120.7	120.3	118.9	120.7	118.7	117.7	118.7	117.0	115.6	120.5	124.6
57.5°	94.0	92.5	90.8	91.6	91.4	89.1	90.3	88.3	87.2	88.9	92.6
60°	67.0	66.6	65.0	65.8	66.4	64.7	65.9	65.0	63.1	64.5	64.7
62.5°	44.6	44.9	43.9	44.1	43.5	43.3	44.1	44.6	44.1	43.4	43.5
65°	28.2	28.1	28.0	28.1	28.5	27.8	28.2	28.6	28.1	28.1	28.0
67.5°	18.8	18.2	17.8	18.1	18.4	18.0	18.4	18.2	18.4	18.2	17.8
70°	12.6	12.5	12.4	12.5	12.5	12.2	12.5	12.4	12.5	12.4	11.9
72.5°	9.2	9.2	9.1	9.2	9.2	8.9	9.1	8.8	8.9	8.8	8.4
75°	6.9	6.9	6.8	6.9	6.8	6.5	6.8	6.5	6.3	6.3	6.0
77.5°	5.0	5.0	5.0	5.0	5.0	4.8	4.8	4.7	4.5	4.4	4.4
80°	3.7	3.6	3.6	3.6	3.6	3.5	3.6	3.5	3.3	3.2	2.9
82.5°	2.7	2.8	2.7	2.7	2.7	2.5	2.7	2.5	2.5	2.4	2.0
85°	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.7	1.7	1.6
87.5°	1.1	1.1	1.1	1.2	1.1	1.1	1.1	0.9	0.9	0.8	0.8
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°	594.6	594.6	594.6	594.6	594.6	594.6	594.6	594.6	594.6	594.6	594.6
2.5°	575.3	576.1	574.4	577.1	587.4	579.2	582.5	583.6	591.4	592.9	591.9
5°	553.5	556.9	559.1	565.1	576.4	570.5	576.6	580.5	590.5	593.8	594.6
7.5°	536.3	543.5	548.8	558.4	571.9	567.3	576.6	583.0	595.2	599.4	601.4
10°	523.5	534.4	543.6	556.9	572.1	569.1	581.2	590.2	603.8	608.7	611.3
12.5°	513.8	527.1	539.4	556.3	572.7	571.3	585.8	596.1	610.5	615.5	618.4
15°	503.2	518.5	532.9	551.8	569.4	569.1	584.8	595.7	610.3	614.6	617.4
17.5°	490.5	506.9	522.7	543.2	560.7	560.9	576.8	587.6	601.9	605.4	607.3
20°	477.7	494.0	509.7	530.8	548.0	548.4	564.0	574.0	587.7	590.5	591.0
22.5°	464.2	479.2	495.0	516.0	532.6	532.9	548.2	557.6	569.2	570.7	571.9
25°	448.6	463.5	478.4	499.2	514.9	515.8	529.8	538.0	548.8	549.9	550.4
27.5°	432.6	444.7	459.0	476.8	492.8	492.1	505.2	514.6	524.2	523.7	523.5
30°	416.4	426.5	435.3	452.4	464.2	464.6	476.9	481.5	491.6	490.4	490.2
32.5°	404.9	407.6	410.0	418.6	429.8	425.8	434.2	439.9	447.0	446.5	446.6
35°	384.0	379.1	372.2	373.4	380.0	374.0	378.6	378.3	385.5	383.8	385.9
37.5°	348.2	334.5	318.8	309.9	311.2	303.5	302.0	305.8	308.2	303.4	305.1
40°	310.0	289.8	265.4	245.1	244.0	234.4	232.8	229.0	233.9	229.8	231.1
42.5°	281.9	255.2	223.1	198.5	193.0	185.1	180.5	179.8	181.2	178.4	177.6
45°	260.4	231.9	195.1	166.8	160.9	152.3	147.6	145.9	146.0	145.1	144.3
47.5°	235.1	206.3	169.2	140.3	133.5	125.4	120.7	119.7	120.3	119.0	118.1
50°	200.1	174.4	140.4	114.1	108.1	102.1	98.4	97.3	97.2	96.2	95.6
52.5°	162.5	141.1	111.7	89.7	84.4	78.5	75.9	74.5	74.7	73.7	72.8
55°	125.8	112.5	86.5	67.8	63.0	58.4	55.9	54.2	53.8	52.8	52.3
57.5°	93.6	84.7	64.8	48.9	46.1	41.7	39.3	37.1	36.9	36.4	36.2
60°	65.6	59.2	45.6	34.9	31.5	28.9	26.4	24.4	23.4	23.3	22.8
62.5°	42.5	38.6	30.0	23.3	20.8	18.9	16.4	15.0	14.4	13.7	14.0
65°	26.4	23.4	18.8	15.0	13.6	12.2	10.4	9.1	8.4	7.8	8.0
67.5°	16.4	14.7	11.9	9.7	8.8	7.6	6.3	5.3	4.8	4.4	4.0
70°	11.1	9.6	8.1	6.9	6.3	5.5	4.5	3.7	3.5	3.2	2.8
72.5°	7.8	7.0	6.0	5.2	4.7	4.0	3.5	2.9	2.7	2.4	2.0
75°	5.6	5.0	4.4	3.7	3.5	3.2	2.7	2.4	2.0	1.7	1.3
77.5°	4.0	3.6	3.2	2.8	2.7	2.1	1.9	1.7	1.6	1.2	0.9
80°	2.8	2.5	2.0	1.9	1.9	1.6	1.3	1.2	1.1	0.8	0.7
82.5°	1.9	1.7	1.6	1.3	1.2	1.1	1.1	0.8	0.7	0.4	0.3
85°	1.3	1.2	1.1	0.9	0.9	0.8	0.7	0.4	0.4	0.3	0.1
87.5°	0.8	0.8	0.7	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°	594.6	594.6	594.6	594.6	594.6	594.6	594.6	594.6	594.6	594.6	594.6
2.5°	599.8	600.3	603.0	601.0	606.2	609.9	607.9	612.2	610.8	610.5	615.4
5°	603.9	605.0	608.6	606.7	612.3	616.4	614.6	619.2	617.8	617.5	622.6
7.5°	611.8	612.8	615.9	614.4	620.3	623.9	621.6	626.7	624.8	624.7	629.6
10°	621.6	623.1	625.8	624.3	629.7	632.8	630.4	635.5	633.8	633.0	638.3
12.5°	629.0	630.0	632.7	631.5	636.8	639.1	637.1	641.9	639.7	639.1	643.7
15°	627.2	628.3	630.4	629.4	634.4	636.6	633.9	639.2	637.1	635.8	640.0
17.5°	616.3	616.9	618.4	617.4	622.7	624.0	621.1	626.4	624.4	622.2	626.3
20°	600.2	599.8	600.9	600.3	604.7	605.5	603.7	607.5	605.1	603.9	606.3
22.5°	580.2	579.9	580.5	579.3	583.6	584.1	581.3	586.0	583.6	581.3	585.2
25°	558.0	556.3	556.0	556.4	559.5	559.9	556.9	560.4	557.4	555.5	559.2
27.5°	530.7	528.5	528.0	528.5	531.4	529.3	526.7	529.3	526.3	524.6	526.9
30°	496.9	493.8	492.4	491.5	494.6	493.8	488.0	490.8	486.1	483.6	485.3
32.5°	451.5	449.8	446.0	443.8	446.7	440.9	437.3	437.3	435.4	431.2	432.1
35°	388.3	385.7	382.3	380.4	380.8	372.9	367.0	368.2	361.9	360.9	361.3
37.5°	308.5	304.2	303.0	299.0	299.9	293.0	284.7	285.0	281.7	278.2	277.1
40°	231.9	231.1	229.8	226.5	227.8	220.2	217.0	217.1	215.0	212.5	213.8
42.5°	179.2	176.7	176.0	174.8	175.2	173.9	169.8	170.3	168.4	167.7	167.2
45°	145.6	143.0	141.1	142.0	142.0	140.6	139.0	140.0	139.0	137.8	138.4
47.5°	119.9	117.4	116.6	116.4	117.4	116.6	115.0	115.3	115.1	114.6	114.3
50°	95.7	95.2	94.4	93.9	94.4	94.0	92.6	93.4	93.9	92.4	92.8
52.5°	72.9	72.9	72.8	71.7	72.7	71.7	71.6	71.9	71.4	70.8	70.6
55°	53.4	53.0	52.2	52.0	52.3	52.0	51.8	51.9	52.2	50.6	50.6
57.5°	36.6	36.2	35.8	35.8	36.4	35.7	35.1	35.8	35.1	34.5	34.5
60°	23.4	23.3	22.8	22.8	22.8	22.6	22.2	22.4	22.6	21.7	21.8
62.5°	14.1	13.6	13.4	13.3	13.4	13.3	13.3	13.2	12.9	12.9	12.5
65°	7.6	7.3	7.0	7.2	7.2	7.0	7.0	7.0	6.8	6.5	6.4
67.5°	3.9	3.6	3.6	3.5	3.5	3.5	3.5	3.3	3.3	3.3	3.2
70°	2.5	2.4	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.9
72.5°	1.7	1.6	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.1	1.1
75°	1.2	1.1	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.7	0.7	0.7	0.7	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°	594.6	594.6	594.6	594.6	594.6	594.6	594.6	594.6
2.5°	613.6	612.3	613.1	619.0	616.4	615.6	609.1	614.9
5°	621.0	620.0	620.0	626.6	623.6	623.0	616.6	621.6
7.5°	627.9	626.8	627.1	633.8	631.5	630.4	624.0	629.1
10°	636.8	636.1	636.3	642.7	640.2	639.2	632.7	637.9
12.5°	642.0	641.1	641.1	648.0	645.2	643.7	637.5	642.5
15°	638.0	636.6	636.6	643.5	640.4	638.3	632.8	637.5
17.5°	624.0	622.7	622.7	628.6	626.3	623.4	617.7	622.0
20°	604.7	603.0	602.6	609.4	606.2	603.4	598.5	602.7
22.5°	582.9	582.1	580.6	587.6	584.6	581.7	576.4	579.7
25°	556.6	555.3	553.9	560.7	557.7	554.8	550.7	553.3
27.5°	523.9	524.1	523.4	528.6	525.7	524.1	519.0	523.4
30°	484.4	482.7	482.1	488.4	485.6	483.5	477.1	481.3
32.5°	432.9	430.4	427.0	434.1	429.3	427.6	422.1	428.2
35°	357.9	357.1	354.2	360.1	357.4	354.3	350.9	356.1
37.5°	276.6	277.3	277.0	278.6	277.0	275.0	271.2	269.3
40°	211.2	209.7	208.4	211.2	207.9	207.9	205.8	208.1
42.5°	165.6	164.9	166.5	167.2	165.3	164.9	164.7	164.5
45°	136.7	136.7	137.0	137.6	137.0	136.7	135.8	135.1
47.5°	112.6	113.3	112.6	114.6	113.6	113.3	111.4	112.2
50°	91.2	90.4	91.2	91.9	92.0	91.1	90.1	90.6
52.5°	70.8	69.5	69.2	70.1	69.5	69.5	68.9	68.7
55°	49.8	50.3	49.5	50.3	49.9	49.5	49.1	49.7
57.5°	33.8	33.9	33.6	34.1	33.3	33.4	33.3	33.1
60°	21.8	21.3	21.3	21.7	20.9	20.9	20.8	20.8
62.5°	12.5	12.4	12.4	12.2	12.0	12.0	12.0	11.7
65°	6.4	6.3	6.1	6.1	6.1	6.1	6.0	6.0
67.5°	3.2	2.9	2.9	3.2	2.9	2.9	2.9	2.9
70°	1.9	1.9	1.7	1.9	1.7	1.7	1.7	1.7
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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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