

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P709260

Luminaire Tested: DL2W-BB-M-050U-100D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

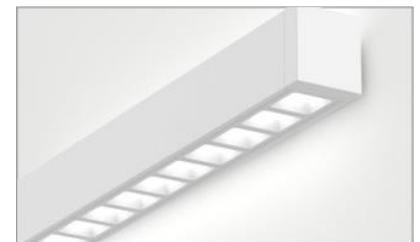
Test Information

Test Method: LM-79-2019
Report Number: P709260
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-2, G3-2104-222-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-BB-M-050U-100D-935-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5897.9 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.22 / 1.16
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

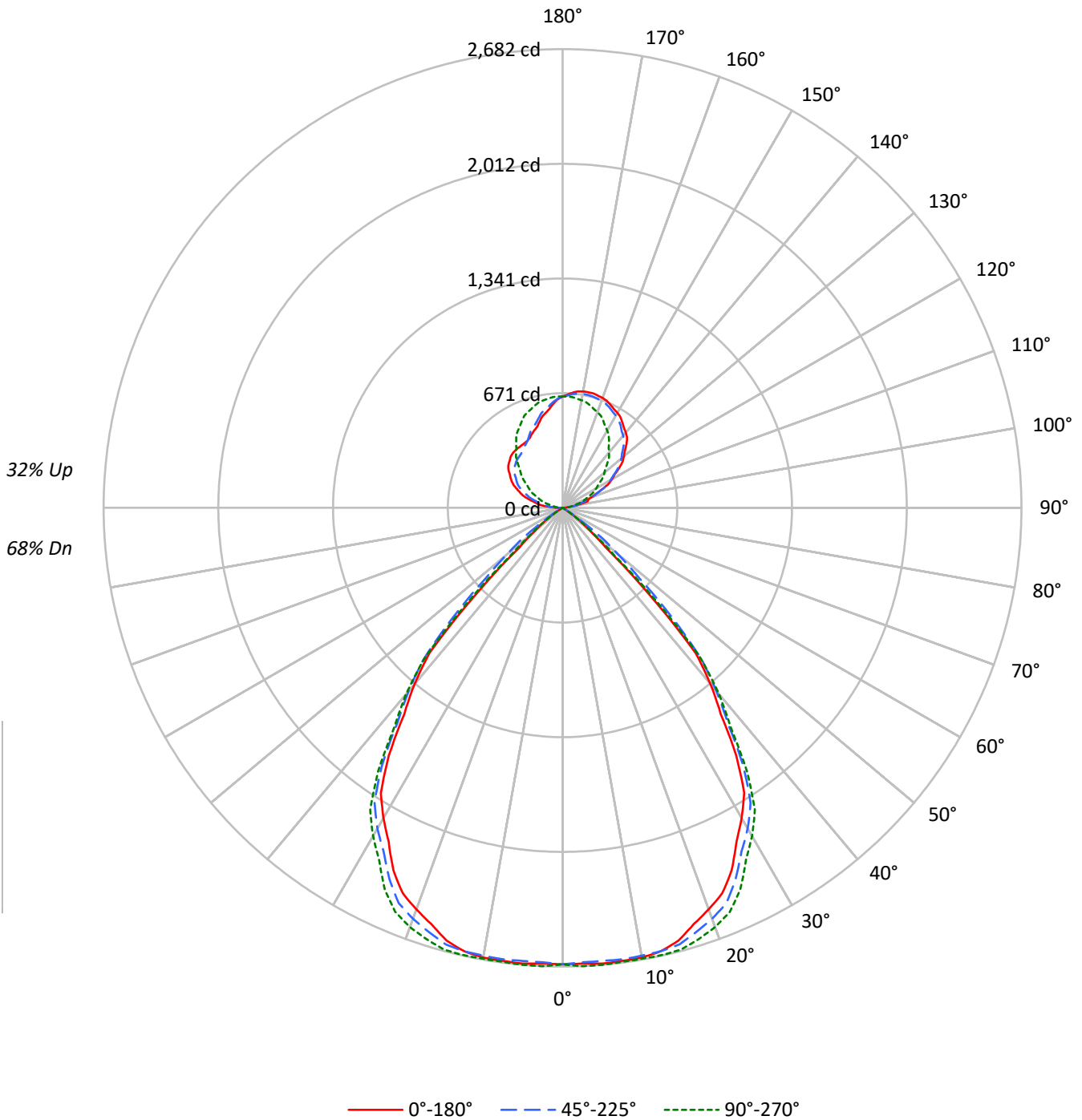
Input Watts (W): 53
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P709260

CATALOG NUMBER: DL2W-BB-M-050U-100D-935-UNV-STD-W-WM-4

Luminous Intensity Polar Plot



TEST NUMBER: P709260

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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	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	68	68	68	68	
1	104	101	98	95	99	96	93	91	86	84	82	77	75	74	68	67	66	62	62	62	62	
2	97	92	87	83	92	87	83	79	79	75	73	71	68	66	63	62	60	57	57	57	57	
3	91	83	77	72	86	79	74	70	72	68	65	65	62	60	59	57	55	52	52	52	52	
4	85	76	69	64	80	72	67	62	66	61	58	60	57	54	55	52	50	47	47	47	47	
5	79	69	62	57	75	66	60	55	61	56	52	56	52	49	51	48	45	43	43	43	43	
6	74	63	56	51	70	61	54	50	56	51	47	51	47	44	47	44	41	39	39	39	39	
7	69	58	51	46	66	56	50	45	52	47	43	48	43	40	44	41	38	36	36	36	36	
8	65	54	47	42	62	52	45	41	48	43	39	44	40	37	41	38	35	33	33	33	33	
9	61	50	43	38	58	48	42	38	45	39	36	41	37	34	38	35	32	30	30	30	30	
10	57	46	40	35	54	45	38	34	41	36	33	39	34	31	36	32	30	28	28	28	28	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	43092	43092	43092	43092	43092
5°	43353	43096	43467	43096	43353
10°	43773	43593	43888	43593	43773
15°	43776	44156	44695	44156	43776
20°	42919	43924	44809	43924	42919
25°	41667	42645	43805	42645	41667
30°	39019	40349	41294	40349	39019
35°	34885	36296	36995	36296	34885
40°	28346	29478	30011	29478	28346
45°	16395	20577	18267	20577	16395
50°	5325	10758	5827	10758	5325
55°	2083	3835	2027	3835	2083
60°	32	1058	161	1058	32
65°	0	69	0	69	0
70°	0	0	0	0	0
75°	0	0	0	0	0
80°	0	0	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 20658 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.1	4.3
10°-20°	745.9	12.6
20°-30°	1099.4	18.6
30°-40°	1125.8	19.1
40°-50°	648.7	11.0
50°-60°	113.4	1.9
60°-70°	4.3	0.1
70°-80°	0.0	0.0
80°-90°	3.5	0.1
90°-100°	52.0	0.9
100°-110°	151.3	2.6
110°-120°	246.7	4.2
120°-130°	313.2	5.3
130°-140°	335.0	5.7
140°-150°	312.8	5.3
150°-160°	257.5	4.4
160°-170°	172.7	2.9
170°-180°	61.3	1.0
0°-30°	2100.4	35.6
0°-40°	3226.2	54.7
0°-60°	3988.3	67.6
0°-90°	3996.2	67.8
90°-120°	450.0	7.6
90°-150°	1410.9	23.9
90°-180°	1903.0	32.3
0°-180°	5897.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2669	2669	2669	2669	2669	
5°	2675	2659	2682	2659	2675	255
15°	2619	2642	2674	2642	2619	735
25°	2339	2394	2459	2394	2339	1067
35°	1770	1841	1877	1841	1770	1087
45°	718	901	800	901	718	565
55°	74	136	72	136	74	76
65°	0	2	0	2	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	1
90°	14	13	2	18	30	7
95°	15	20	20	67	91	26
105°	155	116	95	172	213	144
115°	253	255	183	274	315	252
125°	402	390	273	341	385	359
135°	529	503	371	383	427	406
145°	609	590	473	406	436	382
155°	664	648	562	463	452	306
165°	693	674	621	542	520	196
175°	676	667	650	622	612	65
180°	651	651	651	651	651	

TEST NUMBER: P709260

CATALOG NUMBER: DL2W-BB-M-050U-100D-935-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2668.9	2668.9	2668.9	2668.9	2668.9	2668.9	2668.9	2668.9	2668.9	2668.9	2668.9
2.5°	2666.5	2670.7	2675.0	2668.9	2659.3	2659.1	2668.3	2676.1	2679.3	2682.5	2679.3
5°	2674.9	2679.3	2683.8	2674.2	2660.0	2658.0	2668.2	2676.5	2679.2	2681.9	2679.2
7.5°	2671.5	2676.5	2681.6	2674.5	2663.3	2661.6	2669.5	2675.6	2676.2	2676.9	2676.2
10°	2669.9	2673.9	2677.9	2670.2	2658.6	2659.3	2672.2	2681.3	2679.1	2676.9	2679.1
12.5°	2655.5	2661.2	2667.0	2661.7	2652.6	2657.4	2675.9	2688.6	2683.5	2678.5	2683.5
15°	2618.9	2626.0	2633.1	2634.9	2634.9	2648.4	2675.5	2693.4	2683.6	2673.9	2683.6
17.5°	2551.5	2561.0	2570.5	2579.6	2588.6	2610.1	2644.3	2667.0	2655.4	2643.9	2655.4
20°	2497.9	2508.1	2518.3	2530.5	2543.4	2569.4	2608.5	2634.5	2621.2	2607.9	2621.2
22.5°	2439.5	2449.7	2459.9	2473.5	2488.1	2515.4	2555.2	2581.8	2568.8	2555.9	2568.8
25°	2338.9	2350.4	2362.0	2371.9	2381.2	2406.3	2447.2	2475.8	2467.3	2458.9	2467.3
27.5°	2200.9	2211.3	2221.7	2236.6	2252.9	2277.0	2308.7	2331.2	2326.3	2321.3	2326.3
30°	2092.9	2105.8	2118.7	2135.2	2153.0	2175.4	2202.6	2222.0	2218.4	2214.9	2218.4
32.5°	1976.1	1988.3	2000.5	2017.1	2035.2	2054.1	2073.8	2088.8	2090.3	2091.7	2090.3
35°	1769.9	1783.2	1796.6	1814.6	1834.1	1848.8	1858.6	1867.1	1872.0	1876.9	1872.0
37.5°	1519.3	1533.3	1547.2	1563.4	1580.3	1593.6	1603.4	1610.9	1611.8	1612.7	1611.8
40°	1344.9	1354.3	1363.6	1377.3	1392.4	1404.8	1414.6	1422.1	1423.0	1423.9	1423.0
42.5°	1151.3	1157.1	1162.9	1178.3	1197.0	1212.3	1224.2	1228.9	1212.0	1195.1	1212.0
45°	718.0	783.3	848.6	879.0	897.6	904.7	900.3	886.2	843.1	800.0	843.1
47.5°	340.8	409.5	478.2	540.8	601.3	611.7	572.1	528.0	470.4	412.8	470.4
50°	212.0	235.5	259.1	332.0	421.3	435.3	374.0	317.3	274.7	232.0	274.7
52.5°	142.4	154.2	166.0	221.1	290.5	296.8	240.1	192.4	171.8	151.2	171.8
55°	74.0	77.6	81.1	105.0	135.7	136.8	108.3	85.3	78.7	72.0	78.7
57.5°	25.0	32.0	39.0	49.2	60.4	60.3	48.8	38.6	32.2	25.8	32.2
60°	1.0	5.9	10.8	20.7	32.2	33.3	24.0	15.7	10.3	5.0	10.3
62.5°	1.0	2.0	3.0	9.5	17.8	18.2	10.7	4.6	3.2	1.8	3.2
65°	0.0	0.4	0.9	1.3	1.8	1.8	1.3	0.9	0.4	0.0	0.4
67.5°	0.0	0.0	0.0	0.3	0.6	0.8	0.8	0.7	0.4	0.0	0.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	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	0.0	0.0	0.0
87.5°	2.8	2.8	2.8	2.8	2.6	2.6	2.2	1.6	1.0	0.4	1.0
90°	14.0	14.0	14.0	14.0	13.0	13.0	11.0	8.0	5.0	2.0	5.0
92.5°	17.2	17.2	16.4	16.4	15.4	13.8	11.8	11.2	12.2	6.8	13.0
95°	15.0	15.0	15.0	15.0	17.0	23.0	32.0	34.0	23.0	20.0	28.0
97.5°	35.4	37.8	41.2	49.6	58.4	63.0	59.2	43.0	41.6	39.8	53.2
100°	73.0	73.0	78.0	84.0	96.0	79.0	60.0	59.0	56.0	55.0	70.0
102.5°	115.4	117.8	120.4	121.6	94.4	85.4	82.4	76.6	72.0	71.0	86.8
105°	155.0	148.0	127.0	115.0	115.0	117.0	115.0	108.0	98.0	95.0	112.0
107.5°	151.6	148.6	151.2	152.4	157.2	155.8	151.6	138.8	124.8	122.2	137.2
110°	178.0	179.0	180.0	182.0	186.0	183.0	178.0	162.0	144.0	139.0	154.0

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	209.2	208.6	211.2	212.4	212.4	211.0	202.8	182.8	163.2	157.4	170.8
115°	253.0	255.0	256.0	257.0	256.0	254.0	239.0	217.0	193.0	183.0	195.0
117.5°	303.4	298.8	300.2	301.0	301.6	294.4	278.0	252.0	224.2	209.4	218.6
120°	333.0	330.0	329.0	329.0	328.0	320.0	302.0	276.0	245.0	227.0	233.0
122.5°	359.4	358.8	358.6	357.8	357.6	346.4	326.8	299.2	267.4	245.4	247.4
125°	402.0	403.0	400.0	396.0	395.0	385.0	364.0	335.0	301.0	273.0	270.0
127.5°	442.4	444.4	441.2	439.0	433.6	419.8	399.8	370.8	332.8	301.4	291.6
130°	468.0	470.0	466.0	463.0	456.0	443.0	423.0	394.0	356.0	319.0	306.0
132.5°	493.6	494.0	490.0	486.2	478.4	465.4	445.4	417.2	376.8	339.8	322.8
135°	529.0	530.0	525.0	520.0	508.0	498.0	479.0	451.0	410.0	371.0	348.0
137.5°	558.2	558.4	554.0	546.6	538.6	525.8	508.2	481.8	444.0	402.0	372.8
140°	575.0	576.0	570.0	565.0	557.0	545.0	529.0	501.0	464.0	422.0	392.0
142.5°	589.4	590.4	586.0	581.0	573.0	561.0	546.6	520.2	484.0	442.8	410.4
145°	609.0	612.0	608.0	603.0	596.0	585.0	570.0	546.0	513.0	473.0	437.0
147.5°	629.8	630.0	627.0	624.0	616.0	604.2	593.4	569.4	538.0	502.8	465.2
150°	641.0	642.0	639.0	636.0	628.0	617.0	607.0	583.0	554.0	522.0	486.0
152.5°	650.6	652.4	650.2	646.4	639.2	627.4	618.2	595.8	569.2	538.8	504.4
155°	664.0	667.0	665.0	661.0	653.0	642.0	633.0	614.0	589.0	562.0	531.0
157.5°	676.8	679.6	677.4	672.6	664.4	654.6	646.0	628.0	606.8	583.2	554.8
160°	684.0	686.0	683.0	679.0	670.0	661.0	654.0	636.0	618.0	596.0	570.0
162.5°	688.0	690.8	687.8	683.0	674.0	665.8	659.6	643.2	626.0	606.4	583.6
165°	693.0	694.0	692.0	688.0	678.0	671.0	666.0	653.0	637.0	621.0	603.0
167.5°	692.6	696.6	693.6	689.8	679.0	674.0	669.4	657.8	646.0	632.6	619.2
170°	691.0	695.0	692.0	689.0	679.0	674.0	671.0	661.0	650.0	639.0	628.0
172.5°	687.0	690.2	688.0	685.0	675.8	671.6	670.2	661.8	652.4	643.8	634.4
175°	676.0	680.0	679.0	676.0	668.0	666.0	667.0	661.0	655.0	650.0	643.0
177.5°	662.2	666.2	664.6	663.0	657.4	656.6	659.8	656.6	653.4	651.8	648.6
180°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2668.9	2668.9	2668.9	2668.9	2668.9	2668.9	2668.9	2668.9
2.5°	2676.1	2668.3	2659.1	2659.3	2668.9	2675.0	2670.7	2666.5
5°	2676.5	2668.2	2658.0	2660.0	2674.2	2683.8	2679.3	2674.9
7.5°	2675.6	2669.5	2661.6	2663.3	2674.5	2681.6	2676.5	2671.5
10°	2681.3	2672.2	2659.3	2658.6	2670.2	2677.9	2673.9	2669.9
12.5°	2688.6	2675.9	2657.4	2652.6	2661.7	2667.0	2661.2	2655.5
15°	2693.4	2675.5	2648.4	2634.9	2634.9	2633.1	2626.0	2618.9
17.5°	2667.0	2644.3	2610.1	2588.6	2579.6	2570.5	2561.0	2551.5
20°	2634.5	2608.5	2569.4	2543.4	2530.5	2518.3	2508.1	2497.9
22.5°	2581.8	2555.2	2515.4	2488.1	2473.5	2459.9	2449.7	2439.5
25°	2475.8	2447.2	2406.3	2381.2	2371.9	2362.0	2350.4	2338.9
27.5°	2331.2	2308.7	2277.0	2252.9	2236.6	2221.7	2211.3	2200.9
30°	2222.0	2202.6	2175.4	2153.0	2135.2	2118.7	2105.8	2092.9
32.5°	2088.8	2073.8	2054.1	2035.2	2017.1	2000.5	1988.3	1976.1
35°	1867.1	1858.6	1848.8	1834.1	1814.6	1796.6	1783.2	1769.9
37.5°	1610.9	1603.4	1593.6	1580.3	1563.4	1547.2	1533.3	1519.3
40°	1422.1	1414.6	1404.8	1392.4	1377.3	1363.6	1354.3	1344.9
42.5°	1228.9	1224.2	1212.3	1197.0	1178.3	1162.9	1157.1	1151.3
45°	886.2	900.3	904.7	897.6	879.0	848.6	783.3	718.0
47.5°	528.0	572.1	611.7	601.3	540.8	478.2	409.5	340.8
50°	317.3	374.0	435.3	421.3	332.0	259.1	235.5	212.0
52.5°	192.4	240.1	296.8	290.5	221.1	166.0	154.2	142.4
55°	85.3	108.3	136.8	135.7	105.0	81.1	77.6	74.0
57.5°	38.6	48.8	60.3	60.4	49.2	39.0	32.0	25.0
60°	15.7	24.0	33.3	32.2	20.7	10.8	5.9	1.0
62.5°	4.6	10.7	18.2	17.8	9.5	3.0	2.0	1.0
65°	0.9	1.3	1.8	1.8	1.3	0.9	0.4	0.0
67.5°	0.7	0.8	0.8	0.6	0.3	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1.4	2.2	3.2	4.2	5.0	5.4	5.8	6.0
90°	7.0	11.0	16.0	21.0	25.0	27.0	29.0	30.0
92.5°	18.2	24.6	32.0	37.8	44.2	48.6	50.6	50.8
95°	42.0	51.0	62.0	72.0	80.0	86.0	90.0	91.0
97.5°	64.6	81.4	93.6	105.2	116.8	124.0	128.6	129.2
100°	83.0	99.0	116.0	126.0	140.0	148.0	151.0	154.0
102.5°	103.0	116.6	135.2	150.0	163.2	170.4	176.6	179.6
105°	131.0	148.0	164.0	181.0	196.0	204.0	210.0	213.0
107.5°	157.6	178.4	194.4	211.0	224.2	234.0	241.2	244.2
110°	176.0	196.0	216.0	231.0	245.0	254.0	262.0	265.0

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	193.6	214.4	236.0	252.6	265.8	277.2	282.8	288.2
115°	218.0	241.0	263.0	284.0	298.0	306.0	311.0	315.0
117.5°	239.6	262.8	285.4	306.4	320.8	327.4	330.4	334.2
120°	254.0	278.0	299.0	320.0	336.0	345.0	348.0	351.0
122.5°	267.6	290.8	312.6	332.8	348.8	358.6	363.2	365.4
125°	286.0	309.0	331.0	351.0	365.0	377.0	383.0	385.0
127.5°	301.2	324.2	347.4	366.6	381.4	391.4	397.4	400.2
130°	314.0	333.0	357.0	377.0	391.0	401.0	407.0	409.0
132.5°	325.2	341.0	363.4	384.2	399.0	409.8	414.2	417.0
135°	345.0	353.0	372.0	394.0	410.0	419.0	424.0	427.0
137.5°	364.2	366.4	378.4	398.6	414.6	424.6	429.6	431.6
140°	377.0	376.0	384.0	401.0	417.0	427.0	432.0	434.0
142.5°	391.4	388.0	392.0	404.2	418.6	428.6	434.4	435.6
145°	415.0	406.0	403.0	410.0	421.0	430.0	435.0	436.0
147.5°	441.4	427.6	419.0	420.2	426.4	432.8	436.6	437.4
150°	459.0	442.0	431.0	429.0	432.0	436.0	439.0	439.0
152.5°	475.0	458.8	443.8	440.2	439.2	441.6	443.8	443.0
155°	503.0	483.0	466.0	460.0	455.0	454.0	453.0	452.0
157.5°	531.0	509.2	490.0	481.0	475.6	472.4	470.2	467.6
160°	547.0	526.0	506.0	497.0	490.0	486.0	483.0	482.0
162.5°	562.2	543.6	524.4	512.2	506.0	500.4	499.0	495.6
165°	584.0	569.0	548.0	536.0	531.0	527.0	524.0	520.0
167.5°	605.6	591.6	574.0	562.4	556.8	552.8	549.4	547.2
170°	616.0	606.0	590.0	580.0	576.0	572.0	567.0	564.0
172.5°	626.4	618.0	605.2	596.0	594.4	589.6	587.8	584.0
175°	639.0	634.0	624.0	619.0	619.0	617.0	617.0	612.0
177.5°	647.8	646.2	639.8	636.6	639.0	639.0	638.2	635.8
180°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0

(END OF REPORT)