

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: P709344

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

Issue Date: 3/5/2020

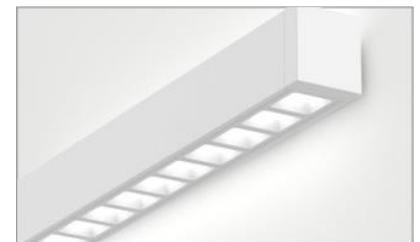
Test Information

Test Method: LM-79-2019
Report Number: P709344
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-2, G3-2104-222-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-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: 6264.8 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.18
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

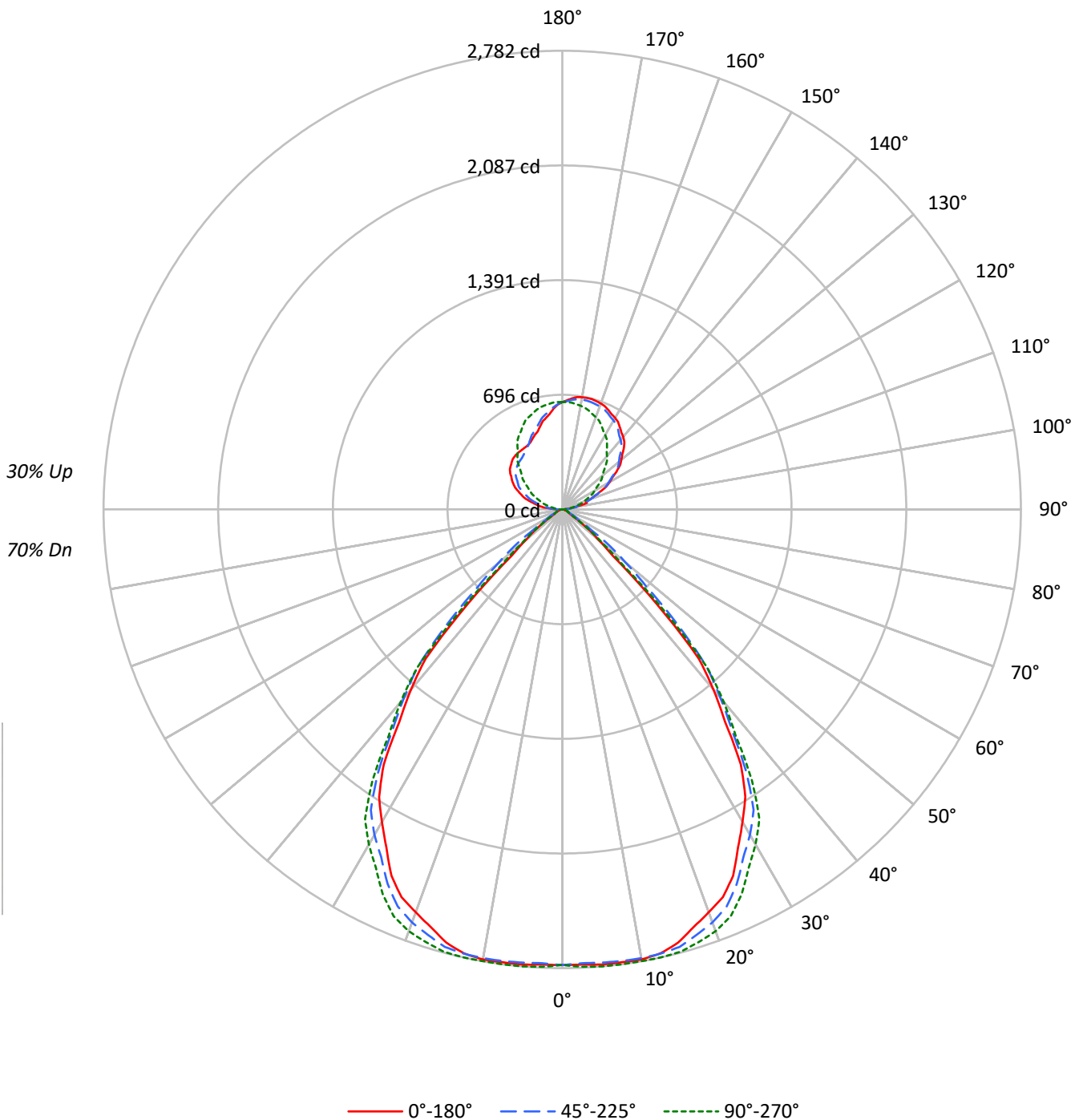
Input Watts (W): 53
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0	
RCR																						
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	70	
1	105	101	98	95	99	96	93	91	86	84	83	78	76	75	69	68	67	67	67	67	64	
2	97	91	86	82	92	87	83	79	79	76	73	71	69	67	64	63	61	61	61	61	58	
3	91	83	77	72	86	79	74	69	72	68	64	66	62	60	60	57	55	55	55	55	52	
4	85	75	69	64	80	72	66	62	66	61	58	60	57	54	55	52	50	50	50	50	47	
5	79	69	62	57	75	66	60	55	61	56	52	56	52	48	51	48	45	45	45	45	43	
6	74	63	56	51	70	60	54	49	56	51	47	51	47	44	47	44	41	41	41	41	39	
7	69	58	51	46	65	56	49	45	51	46	42	48	43	40	44	40	38	38	38	38	36	
8	64	53	46	41	61	51	45	40	48	42	39	44	40	37	41	37	35	35	35	35	33	
9	60	49	42	38	58	48	41	37	44	39	35	41	37	34	38	35	32	32	32	32	30	
10	57	46	39	35	54	44	38	34	41	36	32	38	34	31	36	32	29	29	29	29	28	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	44603	44603	44603	44603	44603
5°	44903	44704	45081	44704	44903
10°	45439	45293	45602	45293	45439
15°	45458	45911	46410	45911	45458
20°	44665	45782	46761	45782	44665
25°	43675	44648	45865	44648	43675
30°	40766	42456	43712	42456	40766
35°	37207	38409	39551	38409	37207
40°	30070	31493	32115	31493	30070
45°	18493	22761	20569	22761	18493
50°	7257	12636	8061	12636	7257
55°	3800	5754	3800	5754	3800
60°	1647	2827	1808	2827	1647
65°	1528	1706	1643	1706	1528
70°	1463	1610	1558	1610	1463
75°	1435	1560	1560	1560	1435
80°	1395	1497	1488	1497	1395
85°	1297	1315	1297	1315	1297

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 22989 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.6	4.2
10°-20°	775.5	12.4
20°-30°	1151.0	18.4
30°-40°	1195.5	19.1
40°-50°	719.4	11.5
50°-60°	172.3	2.8
60°-70°	46.7	0.7
70°-80°	26.2	0.4
80°-90°	11.0	0.2
90°-100°	52.0	0.8
100°-110°	151.3	2.4
110°-120°	246.7	3.9
120°-130°	313.2	5.0
130°-140°	335.0	5.3
140°-150°	312.8	5.0
150°-160°	257.5	4.1
160°-170°	172.7	2.8
170°-180°	61.3	1.0
0°-30°	2191.1	35.0
0°-40°	3386.6	54.1
0°-60°	4278.3	68.3
0°-90°	4362.3	69.6
90°-120°	450.0	7.2
90°-150°	1410.9	22.5
90°-180°	1903.0	30.4
0°-180°	6264.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2762	2762	2762	2762	2762	
5°	2770	2758	2782	2758	2770	264
15°	2720	2747	2776	2747	2720	764
25°	2452	2506	2574	2506	2452	1116
35°	1888	1949	2007	1949	1888	1150
45°	810	997	901	997	810	627
55°	135	204	135	204	135	132
65°	40	45	43	45	40	40
75°	23	25	25	25	23	24
85°	7	7	7	7	7	8
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	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5
2.5°	2762.5	2766.8	2771.0	2764.6	2754.7	2754.2	2763.0	2770.4	2773.3	2776.1	2773.3
5°	2770.5	2775.4	2780.3	2771.8	2759.0	2757.4	2767.2	2775.3	2778.4	2781.5	2778.4
7.5°	2769.9	2775.3	2780.7	2773.6	2762.2	2762.3	2774.0	2782.7	2782.5	2782.3	2782.5
10°	2771.5	2775.5	2779.5	2772.5	2761.8	2763.4	2777.2	2786.8	2784.2	2781.5	2784.2
12.5°	2757.1	2763.2	2769.4	2765.0	2757.2	2762.0	2779.3	2791.2	2786.7	2782.3	2786.7
15°	2719.5	2728.4	2737.3	2739.8	2740.3	2753.0	2777.8	2794.3	2785.4	2776.5	2785.4
17.5°	2653.9	2664.4	2674.9	2685.1	2695.1	2717.0	2750.6	2773.1	2762.1	2751.1	2762.1
20°	2599.5	2611.1	2622.6	2636.5	2651.2	2677.9	2716.5	2742.8	2732.2	2721.5	2732.2
22.5°	2545.1	2553.5	2561.9	2575.7	2591.5	2620.6	2663.2	2692.4	2681.3	2670.3	2681.3
25°	2451.6	2458.2	2464.9	2477.6	2492.2	2520.2	2561.5	2590.5	2582.5	2574.5	2582.5
27.5°	2309.8	2321.2	2332.5	2348.1	2365.1	2391.5	2427.4	2453.7	2451.1	2448.6	2451.1
30°	2186.6	2206.2	2225.7	2244.9	2264.0	2290.5	2324.3	2349.0	2346.8	2344.6	2346.8
32.5°	2066.6	2086.9	2107.2	2127.9	2148.8	2172.0	2197.6	2217.8	2221.6	2225.4	2221.6
35°	1887.7	1897.4	1907.2	1922.7	1940.0	1957.3	1974.6	1989.8	1998.2	2006.6	1998.2
37.5°	1622.7	1634.4	1646.2	1664.7	1685.5	1702.3	1715.0	1725.0	1727.2	1729.3	1727.2
40°	1426.7	1441.0	1455.2	1470.1	1485.2	1503.2	1524.1	1537.9	1530.8	1523.7	1530.8
42.5°	1226.0	1238.1	1250.2	1269.3	1290.8	1310.8	1329.2	1338.6	1321.2	1303.8	1321.2
45°	809.9	874.7	939.6	970.8	990.8	1002.8	1006.8	997.7	949.3	900.8	949.3
47.5°	415.3	481.7	548.1	615.0	682.1	698.4	663.9	622.8	561.9	500.9	561.9
50°	288.9	311.6	334.3	406.3	494.7	511.4	456.3	404.5	362.7	320.9	362.7
52.5°	213.0	225.3	237.7	293.2	363.2	371.1	317.1	270.8	247.9	225.0	247.9
55°	135.0	140.3	145.6	171.3	203.7	205.1	175.3	151.0	143.0	135.0	143.0
57.5°	79.8	88.2	96.7	107.5	119.2	119.2	107.6	97.0	89.3	81.6	89.3
60°	51.0	57.7	64.3	75.0	87.0	88.1	78.3	69.3	62.7	56.0	62.7
62.5°	46.2	48.6	51.0	58.5	67.6	68.2	60.2	53.6	51.2	48.8	51.2
65°	40.0	41.3	42.7	43.7	44.5	44.8	44.3	43.9	43.4	43.0	43.4
67.5°	35.0	36.0	36.9	37.5	37.8	38.2	38.7	38.8	37.9	37.0	37.9
70°	31.0	32.3	33.7	34.0	34.0	34.2	34.7	34.8	33.9	33.0	33.9
72.5°	27.8	28.8	29.8	30.3	30.6	31.0	31.5	31.6	30.7	29.8	30.7
75°	23.0	23.4	23.9	24.3	24.8	25.2	25.7	25.9	25.4	25.0	25.4
77.5°	18.2	18.6	19.1	19.5	19.8	20.0	20.1	20.1	19.6	19.2	19.6
80°	15.0	15.4	15.9	16.0	16.0	16.2	16.7	16.9	16.4	16.0	16.4
82.5°	11.8	11.9	12.0	12.3	12.6	12.8	12.9	13.0	12.9	12.8	12.9
85°	7.0	7.0	7.0	7.0	7.0	7.2	7.7	7.9	7.4	7.0	7.4
87.5°	5.2	5.2	5.2	5.2	5.0	5.0	4.6	4.0	3.4	2.8	3.4
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°	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5
2.5°	2770.4	2763.0	2754.2	2754.7	2764.6	2771.0	2766.8	2762.5
5°	2775.3	2767.2	2757.4	2759.0	2771.8	2780.3	2775.4	2770.5
7.5°	2782.7	2774.0	2762.3	2762.2	2773.6	2780.7	2775.3	2769.9
10°	2786.8	2777.2	2763.4	2761.8	2772.5	2779.5	2775.5	2771.5
12.5°	2791.2	2779.3	2762.0	2757.2	2765.0	2769.4	2763.2	2757.1
15°	2794.3	2777.8	2753.0	2740.3	2739.8	2737.3	2728.4	2719.5
17.5°	2773.1	2750.6	2717.0	2695.1	2685.1	2674.9	2664.4	2653.9
20°	2742.8	2716.5	2677.9	2651.2	2636.5	2622.6	2611.1	2599.5
22.5°	2692.4	2663.2	2620.6	2591.5	2575.7	2561.9	2553.5	2545.1
25°	2590.5	2561.5	2520.2	2492.2	2477.6	2464.9	2458.2	2451.6
27.5°	2453.7	2427.4	2391.5	2365.1	2348.1	2332.5	2321.2	2309.8
30°	2349.0	2324.3	2290.5	2264.0	2244.9	2225.7	2206.2	2186.6
32.5°	2217.8	2197.6	2172.0	2148.8	2127.9	2107.2	2086.9	2066.6
35°	1989.8	1974.6	1957.3	1940.0	1922.7	1907.2	1897.4	1887.7
37.5°	1725.0	1715.0	1702.3	1685.5	1664.7	1646.2	1634.4	1622.7
40°	1537.9	1524.1	1503.2	1485.2	1470.1	1455.2	1441.0	1426.7
42.5°	1338.6	1329.2	1310.8	1290.8	1269.3	1250.2	1238.1	1226.0
45°	997.7	1006.8	1002.8	990.8	970.8	939.6	874.7	809.9
47.5°	622.8	663.9	698.4	682.1	615.0	548.1	481.7	415.3
50°	404.5	456.3	511.4	494.7	406.3	334.3	311.6	288.9
52.5°	270.8	317.1	371.1	363.2	293.2	237.7	225.3	213.0
55°	151.0	175.3	205.1	203.7	171.3	145.6	140.3	135.0
57.5°	97.0	107.6	119.2	119.2	107.5	96.7	88.2	79.8
60°	69.3	78.3	88.1	87.0	75.0	64.3	57.7	51.0
62.5°	53.6	60.2	68.2	67.6	58.5	51.0	48.6	46.2
65°	43.9	44.3	44.8	44.5	43.7	42.7	41.3	40.0
67.5°	38.8	38.7	38.2	37.8	37.5	36.9	36.0	35.0
70°	34.8	34.7	34.2	34.0	34.0	33.7	32.3	31.0
72.5°	31.6	31.5	31.0	30.6	30.3	29.8	28.8	27.8
75°	25.9	25.7	25.2	24.8	24.3	23.9	23.4	23.0
77.5°	20.1	20.1	20.0	19.8	19.5	19.1	18.6	18.2
80°	16.9	16.7	16.2	16.0	16.0	15.9	15.4	15.0
82.5°	13.0	12.9	12.8	12.6	12.3	12.0	11.9	11.8
85°	7.9	7.7	7.2	7.0	7.0	7.0	7.0	7.0
87.5°	3.8	4.6	5.6	6.6	7.4	7.8	8.2	8.4
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)