

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: P709393

Luminaire Tested: DL2W-WB-M-125U-100D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709393
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-5, 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-125U-100D-940-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9804.8 lumens
Efficiency: N/A
Efficacy: 119.4 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: General Diffuse

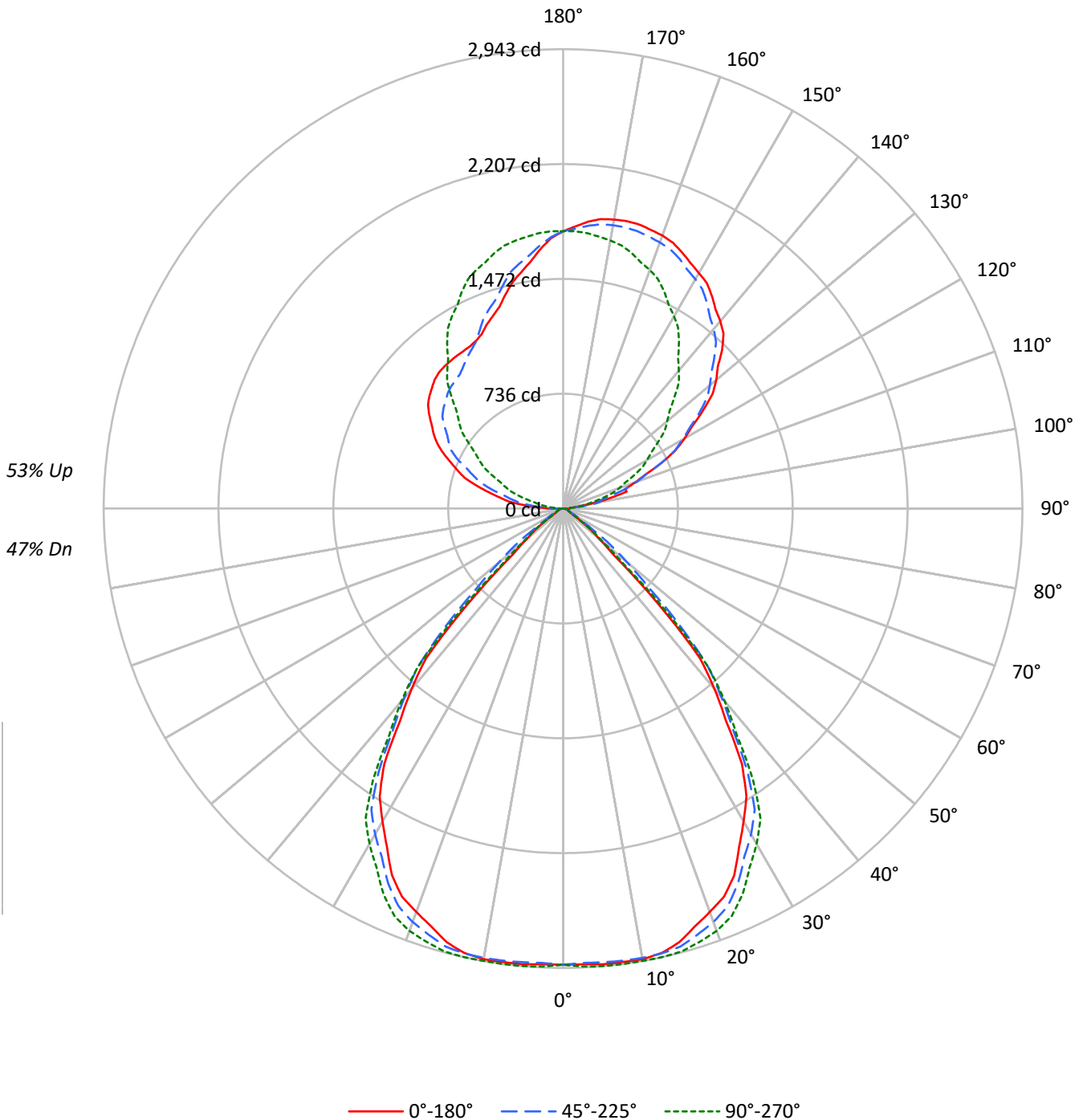
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47		
1	99	95	92	89	91	88	85	83	74	72	70	61	60	59	50	49	48	43		
2	91	85	80	76	84	79	74	71	67	64	61	56	54	52	46	45	44	39		
3	85	76	70	65	78	71	66	61	61	57	54	51	49	46	42	41	39	35		
4	78	69	62	57	72	64	58	54	55	51	47	47	44	41	39	37	35	32		
5	73	62	55	50	67	58	52	47	50	46	42	43	40	37	36	34	32	29		
6	67	57	50	44	62	53	47	42	46	41	38	40	36	33	34	31	29	26		
7	63	52	45	40	58	49	42	38	42	37	34	37	33	30	31	29	27	24		
8	59	47	40	36	54	45	38	34	39	34	31	34	30	28	29	26	24	22		
9	55	44	37	32	51	41	35	31	36	31	28	31	28	25	27	24	22	20		
10	51	40	34	29	48	38	32	28	33	29	25	29	26	23	25	23	21	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	47180	47180	47180	47180	47180
5°	47496	47285	47686	47285	47496
10°	48063	47909	48237	47909	48063
15°	48084	48563	49091	48563	48084
20°	47245	48426	49462	48426	47245
25°	46198	47227	48515	47227	46198
30°	43121	44909	46236	44909	43121
35°	39356	40628	41837	40628	39356
40°	31809	33312	33970	33312	31809
45°	19559	24077	21758	24077	19559
50°	7676	13366	8528	13366	7676
55°	4020	6086	4020	6086	4020
60°	1741	2990	1912	2990	1741
65°	1616	1805	1738	1805	1616
70°	1548	1704	1648	1704	1548
75°	1516	1650	1647	1650	1516
80°	1478	1585	1571	1585	1478
85°	1371	1389	1371	1389	1371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 24318 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.9	2.9
10°-20°	820.3	8.4
20°-30°	1217.5	12.4
30°-40°	1264.6	12.9
40°-50°	761.0	7.8
50°-60°	182.3	1.9
60°-70°	49.4	0.5
70°-80°	27.8	0.3
80°-90°	16.1	0.2
90°-100°	141.0	1.4
100°-110°	411.6	4.2
110°-120°	672.3	6.9
120°-130°	853.9	8.7
130°-140°	913.7	9.3
140°-150°	853.2	8.7
150°-160°	702.2	7.2
160°-170°	471.0	4.8
170°-180°	167.2	1.7
0°-30°	2317.7	23.6
0°-40°	3582.3	36.5
0°-60°	4525.5	46.2
0°-90°	4618.8	47.1
90°-120°	1224.9	12.5
90°-150°	3845.7	39.2
90°-180°	5186.0	52.9
0°-180°	9804.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2922	2922	2922	2922	2922	
5°	2930	2918	2942	2918	2930	280
15°	2877	2905	2937	2905	2877	808
25°	2593	2651	2723	2651	2593	1181
35°	1997	2061	2123	2061	1997	1216
45°	857	1054	953	1054	857	663
55°	143	216	143	216	143	140
65°	42	47	46	47	42	42
75°	24	26	26	26	24	26
85°	7	8	7	8	7	9
90°	38	34	6	49	84	18
95°	41	52	55	182	252	69
105°	423	313	262	471	579	392
115°	702	696	498	745	851	688
125°	1093	1063	743	929	1046	976
135°	1442	1370	1008	1045	1165	1106
145°	1662	1607	1295	1112	1192	1040
155°	1808	1765	1533	1261	1233	834
165°	1884	1840	1696	1483	1421	532
175°	1845	1818	1771	1692	1669	177
180°	1776	1776	1776	1776	1776	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1
2.5°	2922.1	2926.6	2931.1	2924.3	2913.8	2913.3	2922.7	2930.5	2933.5	2936.5	2933.5
5°	2930.5	2935.7	2940.9	2932.0	2918.3	2916.7	2927.0	2935.6	2938.9	2942.2	2938.9
7.5°	2929.9	2935.6	2941.4	2933.8	2921.8	2921.9	2934.2	2943.4	2943.2	2943.0	2943.2
10°	2931.6	2935.8	2940.1	2932.7	2921.4	2923.0	2937.6	2947.8	2945.0	2942.2	2945.0
12.5°	2916.4	2922.9	2929.3	2924.8	2916.5	2921.5	2939.9	2952.4	2947.7	2943.0	2947.7
15°	2876.6	2886.0	2895.4	2898.1	2898.6	2912.0	2938.3	2955.7	2946.3	2936.9	2946.3
17.5°	2807.2	2818.3	2829.4	2840.2	2850.8	2873.9	2909.5	2933.3	2921.7	2910.0	2921.7
20°	2749.7	2761.9	2774.1	2788.8	2804.3	2832.5	2873.4	2901.3	2890.0	2878.7	2890.0
22.5°	2692.2	2701.0	2709.8	2724.5	2741.2	2772.0	2817.0	2847.9	2836.2	2824.6	2836.2
25°	2593.2	2600.2	2607.3	2620.7	2636.2	2665.8	2709.5	2740.2	2731.7	2723.3	2731.7
27.5°	2443.2	2455.2	2467.3	2483.8	2501.7	2529.7	2567.7	2595.5	2592.7	2590.0	2592.7
30°	2312.9	2333.6	2354.3	2374.6	2394.8	2422.8	2458.5	2484.7	2482.4	2480.0	2482.4
32.5°	2186.0	2207.4	2228.9	2250.8	2272.9	2297.5	2324.6	2345.9	2349.9	2354.0	2349.9
35°	1996.7	2007.0	2017.4	2033.7	2052.1	2070.4	2088.7	2104.7	2113.6	2122.6	2113.6
37.5°	1716.4	1728.9	1741.3	1760.9	1782.9	1800.6	1814.0	1824.7	1826.9	1829.2	1826.9
40°	1509.2	1524.2	1539.2	1555.0	1571.0	1590.0	1612.1	1626.8	1619.3	1611.7	1619.3
42.5°	1296.8	1309.6	1322.4	1342.6	1365.4	1386.5	1405.9	1415.9	1397.5	1379.1	1397.5
45°	856.6	925.3	993.9	1026.9	1048.1	1060.8	1065.0	1055.3	1004.1	952.9	1004.1
47.5°	439.3	509.5	579.8	650.6	721.5	738.8	702.3	658.8	594.3	529.8	594.3
50°	305.6	329.6	353.6	429.7	523.3	540.9	482.6	427.8	383.7	339.5	383.7
52.5°	225.3	238.3	251.4	310.2	384.1	392.5	335.4	286.5	262.2	238.0	262.2
55°	142.8	148.4	154.1	181.2	215.5	216.9	185.4	159.7	151.2	142.8	151.2
57.5°	84.4	93.3	102.3	113.7	126.0	126.1	113.9	102.7	94.5	86.3	94.5
60°	53.9	61.0	68.0	79.3	92.0	93.2	82.8	73.3	66.3	59.2	66.3
62.5°	48.9	51.4	53.9	61.8	71.5	72.1	63.7	56.7	54.1	51.6	54.1
65°	42.3	43.7	45.1	46.2	47.1	47.4	46.9	46.4	45.9	45.5	45.9
67.5°	37.0	38.0	39.1	39.6	40.0	40.4	40.9	41.0	40.1	39.1	40.1
70°	32.8	34.2	35.6	36.0	36.0	36.2	36.7	36.8	35.8	34.9	35.8
72.5°	29.4	30.4	31.5	32.0	32.4	32.8	33.3	33.4	32.5	31.5	32.5
75°	24.3	24.8	25.3	25.7	26.2	26.7	27.1	27.4	26.9	26.4	26.9
77.5°	19.2	19.7	20.2	20.6	21.0	21.2	21.3	21.2	20.8	20.3	20.8
80°	15.9	16.3	16.8	16.9	16.9	17.2	17.6	17.9	17.4	16.9	17.4
82.5°	12.5	12.6	12.7	13.0	13.3	13.6	13.7	13.7	13.6	13.5	13.6
85°	7.4	7.4	7.4	7.4	7.4	7.6	8.1	8.3	7.9	7.4	7.9
87.5°	10.1	10.1	9.9	9.9	9.3	9.3	8.7	7.0	5.3	3.8	5.1
90°	38.0	38.0	37.0	37.0	33.8	33.8	30.6	22.2	13.7	6.3	12.7
92.5°	45.7	45.7	44.6	43.8	41.4	38.0	31.5	31.5	29.8	19.0	34.7
95°	41.2	41.2	40.2	41.2	45.4	58.1	84.5	93.0	63.4	55.0	79.3
97.5°	96.4	99.3	109.5	128.1	161.3	167.2	158.9	118.4	114.8	110.5	145.0
100°	190.2	196.6	209.3	226.2	265.3	210.3	164.9	164.9	155.4	151.1	188.1
102.5°	306.1	309.0	322.5	324.2	259.3	229.8	218.1	213.9	195.9	193.4	237.2
105°	422.7	400.5	351.9	316.0	312.8	312.8	311.8	292.7	267.4	262.1	307.5
107.5°	414.7	409.0	411.7	415.5	420.4	424.2	413.2	381.7	340.1	333.7	377.1
110°	492.5	485.1	490.4	496.7	499.9	502.0	480.9	437.5	394.2	383.6	422.7

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	572.0	568.8	569.0	577.9	577.7	577.2	550.2	497.6	445.8	428.4	465.8
115°	701.7	696.4	688.0	698.6	700.7	692.2	655.2	593.9	529.5	497.8	533.7
117.5°	813.8	812.1	814.6	818.8	815.9	802.8	755.2	685.9	614.4	571.3	596.7
120°	898.3	894.1	898.3	902.5	896.2	872.9	825.4	753.5	671.1	620.4	637.3
122.5°	979.5	978.6	977.8	972.7	973.1	946.5	891.3	816.1	731.1	669.4	675.3
125°	1092.8	1097.0	1091.7	1085.4	1078.0	1048.4	990.2	913.1	816.9	742.9	735.5
127.5°	1207.3	1207.9	1197.6	1191.5	1178.8	1144.5	1085.8	1009.9	905.9	821.8	795.4
130°	1280.9	1279.8	1270.3	1260.8	1243.9	1212.2	1150.9	1071.6	970.2	870.8	835.9
132.5°	1343.4	1344.9	1333.7	1325.9	1304.8	1271.4	1215.1	1136.7	1028.5	924.9	879.9
135°	1441.5	1443.6	1429.9	1411.9	1387.6	1352.7	1305.2	1230.1	1122.3	1008.2	949.0
137.5°	1521.6	1520.1	1506.6	1490.3	1468.8	1431.4	1387.6	1313.4	1212.2	1098.2	1015.2
140°	1567.3	1568.3	1555.6	1537.7	1518.7	1483.8	1438.3	1367.5	1267.1	1154.0	1068.4
142.5°	1606.2	1608.1	1598.8	1583.3	1560.9	1530.3	1489.9	1420.8	1322.1	1209.8	1117.5
145°	1662.4	1666.6	1658.2	1644.4	1623.3	1590.5	1556.7	1489.1	1398.2	1294.6	1194.2
147.5°	1713.7	1716.1	1709.3	1700.0	1678.4	1647.2	1615.9	1553.5	1468.1	1372.0	1270.1
150°	1741.6	1749.0	1740.6	1732.1	1713.1	1679.3	1653.9	1591.6	1515.5	1423.5	1324.2
152.5°	1771.2	1777.8	1769.3	1760.0	1741.0	1708.9	1685.2	1623.7	1553.5	1467.5	1375.8
155°	1808.2	1816.7	1810.3	1799.8	1780.7	1750.1	1726.8	1670.8	1607.4	1533.4	1447.8
157.5°	1842.5	1848.6	1843.1	1833.4	1809.9	1785.0	1760.7	1712.5	1655.4	1590.9	1516.3
160°	1861.1	1866.3	1860.0	1849.4	1825.1	1801.9	1781.8	1735.3	1682.5	1626.4	1557.8
162.5°	1872.1	1879.9	1873.5	1862.1	1837.8	1817.1	1797.9	1754.7	1707.0	1654.3	1595.0
165°	1884.3	1893.8	1886.4	1874.8	1848.4	1831.5	1816.7	1778.6	1737.4	1696.2	1645.5
167.5°	1886.0	1894.7	1887.9	1878.2	1852.0	1837.6	1826.0	1794.3	1759.4	1726.8	1684.8
170°	1880.1	1889.6	1885.4	1874.8	1849.4	1836.8	1829.4	1801.9	1771.2	1743.8	1711.0
172.5°	1870.8	1879.4	1874.4	1866.3	1841.0	1831.7	1826.8	1803.6	1778.8	1757.3	1732.1
175°	1845.2	1854.7	1849.4	1844.2	1820.9	1815.6	1816.7	1802.9	1786.0	1771.2	1755.4
177.5°	1808.6	1815.4	1811.2	1808.6	1794.3	1793.4	1798.5	1791.7	1784.1	1778.2	1771.4
180°	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1
2.5°	2930.5	2922.7	2913.3	2913.8	2924.3	2931.1	2926.6	2922.1
5°	2935.6	2927.0	2916.7	2918.3	2932.0	2940.9	2935.7	2930.5
7.5°	2943.4	2934.2	2921.9	2921.8	2933.8	2941.4	2935.6	2929.9
10°	2947.8	2937.6	2923.0	2921.4	2932.7	2940.1	2935.8	2931.6
12.5°	2952.4	2939.9	2921.5	2916.5	2924.8	2929.3	2922.9	2916.4
15°	2955.7	2938.3	2912.0	2898.6	2898.1	2895.4	2886.0	2876.6
17.5°	2933.3	2909.5	2873.9	2850.8	2840.2	2829.4	2818.3	2807.2
20°	2901.3	2873.4	2832.5	2804.3	2788.8	2774.1	2761.9	2749.7
22.5°	2847.9	2817.0	2772.0	2741.2	2724.5	2709.8	2701.0	2692.2
25°	2740.2	2709.5	2665.8	2636.2	2620.7	2607.3	2600.2	2593.2
27.5°	2595.5	2567.7	2529.7	2501.7	2483.8	2467.3	2455.2	2443.2
30°	2484.7	2458.5	2422.8	2394.8	2374.6	2354.3	2333.6	2312.9
32.5°	2345.9	2324.6	2297.5	2272.9	2250.8	2228.9	2207.4	2186.0
35°	2104.7	2088.7	2070.4	2052.1	2033.7	2017.4	2007.0	1996.7
37.5°	1824.7	1814.0	1800.6	1782.9	1760.9	1741.3	1728.9	1716.4
40°	1626.8	1612.1	1590.0	1571.0	1555.0	1539.2	1524.2	1509.2
42.5°	1415.9	1405.9	1386.5	1365.4	1342.6	1322.4	1309.6	1296.8
45°	1055.3	1065.0	1060.8	1048.1	1026.9	993.9	925.3	856.6
47.5°	658.8	702.3	738.8	721.5	650.6	579.8	509.5	439.3
50°	427.8	482.6	540.9	523.3	429.7	353.6	329.6	305.6
52.5°	286.5	335.4	392.5	384.1	310.2	251.4	238.3	225.3
55°	159.7	185.4	216.9	215.5	181.2	154.1	148.4	142.8
57.5°	102.7	113.9	126.1	126.0	113.7	102.3	93.3	84.4
60°	73.3	82.8	93.2	92.0	79.3	68.0	61.0	53.9
62.5°	56.7	63.7	72.1	71.5	61.8	53.9	51.4	48.9
65°	46.4	46.9	47.4	47.1	46.2	45.1	43.7	42.3
67.5°	41.0	40.9	40.4	40.0	39.6	39.1	38.0	37.0
70°	36.8	36.7	36.2	36.0	36.0	35.6	34.2	32.8
72.5°	33.4	33.3	32.8	32.4	32.0	31.5	30.4	29.4
75°	27.4	27.1	26.7	26.2	25.7	25.3	24.8	24.3
77.5°	21.2	21.3	21.2	21.0	20.6	20.2	19.7	19.2
80°	17.9	17.6	17.2	16.9	16.9	16.8	16.3	15.9
82.5°	13.7	13.7	13.6	13.3	13.0	12.7	12.6	12.5
85°	8.3	8.1	7.6	7.4	7.4	7.4	7.4	7.4
87.5°	6.6	8.7	11.0	13.5	15.9	17.1	18.6	19.4
90°	20.1	30.6	42.3	55.0	66.6	72.9	80.3	84.5
92.5°	48.8	65.3	85.4	104.8	121.5	131.3	137.8	139.5
95°	115.2	138.4	165.9	197.6	215.6	234.6	248.4	251.5
97.5°	177.8	219.4	257.7	286.0	314.3	335.0	348.1	352.3
100°	225.1	268.4	316.0	347.7	379.4	398.4	417.4	413.2
102.5°	279.2	320.0	368.4	406.0	443.7	466.9	480.9	487.6
105°	357.2	404.8	446.0	495.6	527.4	554.8	574.9	579.1
107.5°	430.3	484.9	526.3	573.4	611.3	635.6	656.3	663.3
110°	481.9	539.0	589.7	626.7	663.7	692.2	711.2	720.8

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	528.4	586.3	643.8	685.9	725.4	751.4	770.4	780.8
115°	595.0	657.3	713.4	775.7	809.5	831.7	845.5	850.7
117.5°	656.1	719.5	779.9	837.4	878.2	893.0	903.8	910.1
120°	693.3	756.7	818.0	872.9	916.3	939.5	951.1	957.5
122.5°	727.9	792.2	852.6	907.6	950.9	977.6	992.6	997.2
125°	779.9	844.4	904.6	954.3	997.6	1027.2	1044.1	1046.3
127.5°	827.5	883.3	948.8	1001.0	1041.8	1069.3	1084.7	1091.1
130°	857.1	907.8	973.3	1027.2	1066.3	1098.0	1111.8	1118.1
132.5°	887.5	930.6	991.9	1048.4	1090.8	1119.2	1133.8	1140.1
135°	937.4	962.8	1016.7	1073.7	1116.0	1144.5	1159.3	1164.6
137.5°	993.2	999.3	1034.8	1088.3	1133.3	1161.0	1173.1	1179.8
140°	1030.4	1027.2	1048.4	1095.9	1139.3	1167.8	1181.5	1185.8
142.5°	1070.1	1057.7	1067.8	1103.5	1143.5	1170.3	1184.9	1189.1
145°	1132.9	1107.5	1102.3	1122.3	1148.8	1174.1	1187.9	1192.1
147.5°	1201.6	1167.6	1143.1	1149.4	1162.9	1179.6	1192.5	1193.4
150°	1248.1	1209.0	1175.2	1173.1	1177.3	1188.9	1198.4	1198.4
152.5°	1298.0	1249.6	1210.7	1201.8	1198.4	1204.1	1210.3	1209.4
155°	1372.8	1320.0	1271.4	1251.3	1242.8	1236.5	1236.5	1233.3
157.5°	1445.1	1389.1	1338.6	1313.8	1297.4	1288.3	1282.8	1276.4
160°	1493.3	1437.3	1379.2	1357.0	1337.9	1326.3	1320.0	1313.6
162.5°	1536.4	1484.6	1429.9	1397.5	1381.1	1370.3	1363.1	1355.1
165°	1596.9	1551.4	1499.6	1465.8	1448.9	1435.2	1428.8	1421.4
167.5°	1649.1	1612.9	1569.0	1536.6	1524.6	1506.6	1501.5	1487.2
170°	1680.3	1651.8	1609.5	1583.1	1573.6	1559.9	1551.4	1538.7
172.5°	1707.4	1683.9	1650.1	1626.2	1625.2	1609.7	1603.0	1595.4
175°	1742.7	1727.9	1701.5	1683.5	1689.9	1682.5	1681.4	1668.7
177.5°	1765.5	1762.1	1745.2	1737.6	1742.7	1743.5	1743.5	1734.2
180°	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5

(END OF REPORT)