

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: P709312

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

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709312
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-5, G3-2104-222-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-BB-M-125U-125D-940-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10463.1 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.17
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

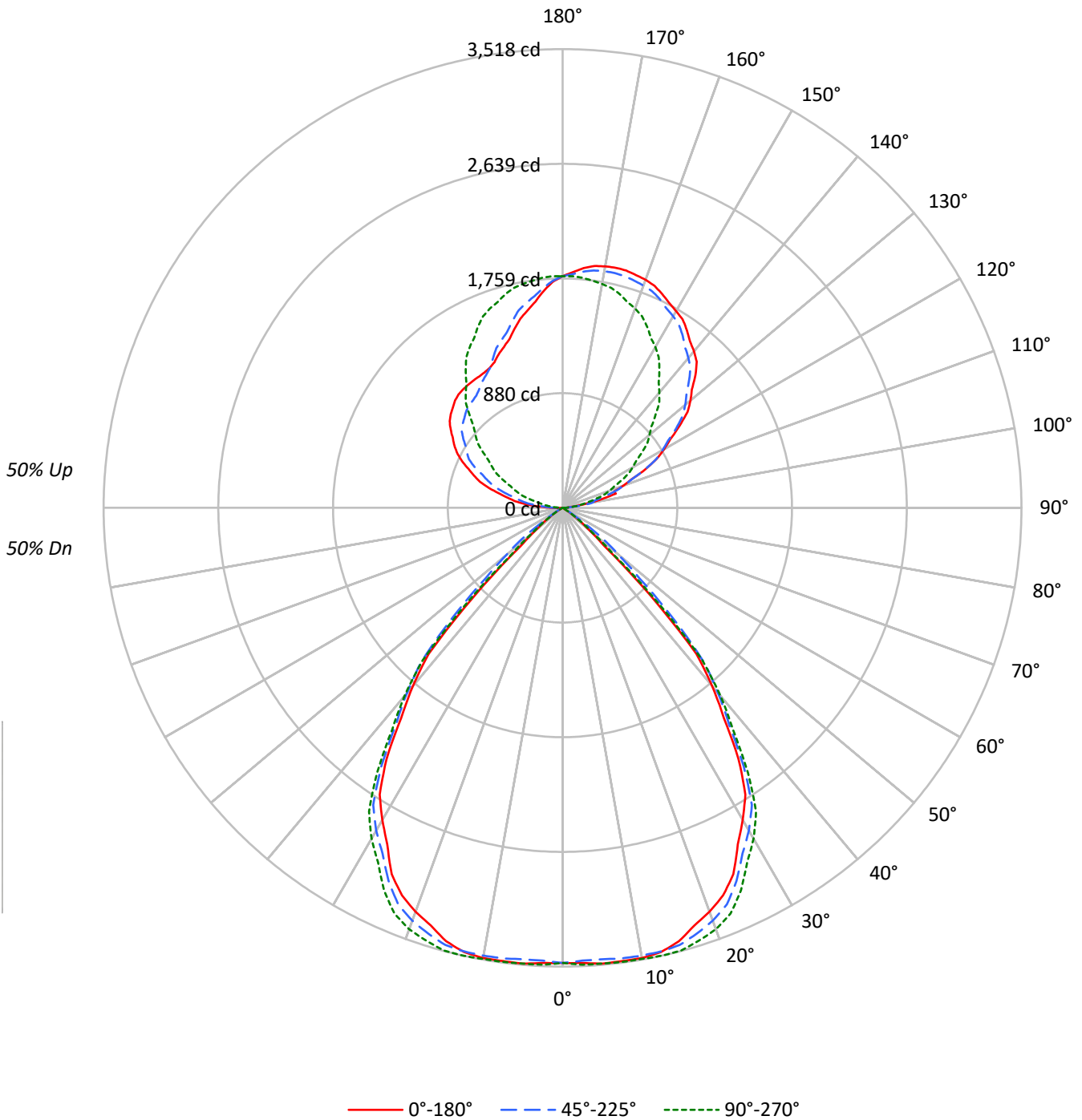
Input Watts (W): 93.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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CATALOG NUMBER: DL2W-BB-M-125U-125D-940-UNV-STD-W-WM-4

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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	57	57	57	50
1	100	96	93	90	92	89	87	84	76	74	73	64	63	62	53	52	52	46
2	93	87	81	77	86	81	76	73	69	66	64	59	57	55	49	48	47	42
3	86	78	72	67	80	73	68	63	63	59	56	54	51	49	46	44	42	38
4	80	71	64	59	74	66	60	56	58	53	50	50	47	44	42	40	38	35
5	74	64	57	52	69	60	54	49	53	48	44	46	42	40	39	37	35	32
6	69	58	51	46	64	55	49	44	48	43	40	42	39	36	36	34	32	29
7	64	53	46	41	60	50	44	40	44	40	36	39	35	33	34	31	29	27
8	60	49	42	37	56	46	40	36	41	36	33	36	32	30	31	29	27	24
9	56	45	38	34	52	43	37	32	38	33	30	34	30	27	29	27	25	23
10	53	42	35	31	49	39	34	30	35	31	27	31	28	25	27	25	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	56359	56359	56359	56359	56359
5°	56866	56315	56866	56315	56866
10°	57471	57166	57592	57166	57471
15°	57536	58014	58753	58014	57536
20°	56606	57874	59089	57874	56606
25°	55216	56226	57658	56226	55216
30°	51492	53260	54598	53260	51492
35°	46353	47732	48827	47732	46353
40°	37586	39135	39764	39135	37586
45°	21866	27360	24272	27360	21866
50°	6968	14122	7920	14122	6968
55°	2790	4918	2702	4918	2790
60°	68	1351	203	1351	68
65°	0	73	42	73	0
70°	0	45	0	45	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: 60°
 Vertical Angle: 45°
 Luminance: 27579 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.1	3.2
10°-20°	980.9	9.4
20°-30°	1449.7	13.9
30°-40°	1489.8	14.2
40°-50°	860.5	8.2
50°-60°	148.9	1.4
60°-70°	5.6	0.1
70°-80°	0.1	0.0
80°-90°	9.5	0.1
90°-100°	141.0	1.3
100°-110°	411.6	3.9
110°-120°	672.3	6.4
120°-130°	853.9	8.2
130°-140°	913.7	8.7
140°-150°	853.2	8.2
150°-160°	702.2	6.7
160°-170°	471.0	4.5
170°-180°	167.2	1.6
0°-30°	2764.7	26.4
0°-40°	4254.5	40.7
0°-60°	5263.9	50.3
0°-90°	5279.1	50.5
90°-120°	1224.9	11.7
90°-150°	3845.7	36.8
90°-180°	5186.0	49.6
0°-180°	10463.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3491	3491	3491	3491	3491	
5°	3509	3475	3509	3475	3509	334
15°	3442	3471	3515	3471	3442	967
25°	3099	3156	3236	3156	3099	1410
35°	2352	2422	2477	2422	2352	1442
45°	958	1198	1063	1198	958	745
55°	99	175	96	175	99	101
65°	0	2	1	2	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	3
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°	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6
2.5°	3493.2	3496.5	3499.9	3490.1	3475.8	3474.9	3487.3	3497.7	3502.2	3506.7	3502.2
5°	3508.6	3511.8	3515.1	3499.1	3476.6	3472.6	3487.1	3499.2	3503.9	3508.6	3503.9
7.5°	3505.4	3510.6	3515.9	3503.9	3486.2	3483.6	3496.0	3506.1	3509.0	3511.9	3509.0
10°	3505.4	3509.1	3512.9	3502.2	3486.8	3486.8	3502.2	3513.7	3513.2	3512.8	3513.2
12.5°	3489.4	3495.7	3502.1	3494.4	3481.9	3487.3	3510.7	3527.0	3522.4	3517.8	3522.4
15°	3442.1	3453.4	3464.6	3465.3	3462.5	3478.9	3514.5	3538.3	3526.6	3514.9	3526.6
17.5°	3358.6	3372.7	3386.7	3398.3	3409.1	3437.4	3483.1	3513.2	3496.3	3479.5	3496.3
20°	3294.5	3308.5	3322.6	3337.0	3351.5	3385.1	3437.6	3472.7	3455.8	3439.0	3455.8
22.5°	3216.9	3229.8	3242.7	3258.0	3274.0	3310.2	3366.4	3404.0	3385.6	3367.2	3385.6
25°	3099.4	3104.5	3109.7	3122.9	3138.9	3173.3	3226.3	3262.7	3249.6	3236.5	3249.6
27.5°	2908.7	2920.8	2932.9	2951.6	2972.5	3003.4	3044.3	3073.7	3069.1	3064.4	3069.1
30°	2761.9	2779.3	2796.6	2818.9	2842.8	2870.7	2902.5	2926.7	2927.6	2928.5	2927.6
32.5°	2608.4	2626.1	2643.8	2665.0	2687.4	2714.8	2747.0	2770.0	2765.3	2760.7	2765.3
35°	2351.7	2365.3	2378.9	2394.6	2411.0	2432.3	2458.6	2478.1	2477.7	2477.2	2477.7
37.5°	2033.0	2040.7	2048.4	2067.0	2089.3	2109.5	2127.6	2141.8	2144.1	2146.5	2144.1
40°	1783.3	1791.7	1800.2	1821.2	1846.6	1866.9	1882.4	1893.2	1889.9	1886.6	1889.9
42.5°	1518.4	1528.7	1539.0	1563.9	1593.7	1614.3	1625.7	1628.8	1607.1	1585.4	1607.1
45°	957.6	1040.5	1123.5	1164.2	1191.0	1205.5	1207.8	1193.3	1128.2	1063.0	1128.2
47.5°	436.8	534.2	631.6	714.4	792.3	808.2	762.0	707.1	625.5	543.9	625.5
50°	277.4	305.0	332.7	430.6	552.0	572.4	491.8	418.4	366.9	315.3	366.9
52.5°	184.6	200.6	216.6	292.3	387.8	395.4	315.2	248.9	224.3	199.7	224.3
55°	99.1	103.8	108.5	137.4	174.5	174.9	138.9	110.0	103.0	96.0	103.0
57.5°	37.5	44.7	51.8	64.3	78.5	78.3	63.6	50.6	42.8	35.0	42.8
60°	2.1	7.7	13.4	26.0	41.0	42.7	30.9	20.4	13.4	6.3	13.4
62.5°	1.3	2.4	3.5	12.0	22.8	23.3	13.5	5.7	3.9	2.1	3.9
65°	0.0	0.5	0.9	1.4	1.9	1.9	1.4	1.1	1.1	1.1	1.1
67.5°	0.0	0.0	0.0	0.4	0.8	1.1	1.1	0.9	0.5	0.0	0.5
70°	0.0	0.0	0.0	0.4	0.8	1.1	1.1	0.9	0.5	0.0	0.5
72.5°	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.1	0.0	0.1
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°	7.6	7.6	7.4	7.4	6.8	6.8	6.1	4.4	2.7	1.3	2.5
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°	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6
2.5°	3497.7	3487.3	3474.9	3475.8	3490.1	3499.9	3496.5	3493.2
5°	3499.2	3487.1	3472.6	3476.6	3499.1	3515.1	3511.8	3508.6
7.5°	3506.1	3496.0	3483.6	3486.2	3503.9	3515.9	3510.6	3505.4
10°	3513.7	3502.2	3486.8	3486.8	3502.2	3512.9	3509.1	3505.4
12.5°	3527.0	3510.7	3487.3	3481.9	3494.4	3502.1	3495.7	3489.4
15°	3538.3	3514.5	3478.9	3462.5	3465.3	3464.6	3453.4	3442.1
17.5°	3513.2	3483.1	3437.4	3409.1	3398.3	3386.7	3372.7	3358.6
20°	3472.7	3437.6	3385.1	3351.5	3337.0	3322.6	3308.5	3294.5
22.5°	3404.0	3366.4	3310.2	3274.0	3258.0	3242.7	3229.8	3216.9
25°	3262.7	3226.3	3173.3	3138.9	3122.9	3109.7	3104.5	3099.4
27.5°	3073.7	3044.3	3003.4	2972.5	2951.6	2932.9	2920.8	2908.7
30°	2926.7	2902.5	2870.7	2842.8	2818.9	2796.6	2779.3	2761.9
32.5°	2770.0	2747.0	2714.8	2687.4	2665.0	2643.8	2626.1	2608.4
35°	2478.1	2458.6	2432.3	2411.0	2394.6	2378.9	2365.3	2351.7
37.5°	2141.8	2127.6	2109.5	2089.3	2067.0	2048.4	2040.7	2033.0
40°	1893.2	1882.4	1866.9	1846.6	1821.2	1800.2	1791.7	1783.3
42.5°	1628.8	1625.7	1614.3	1593.7	1563.9	1539.0	1528.7	1518.4
45°	1193.3	1207.8	1205.5	1191.0	1164.2	1123.5	1040.5	957.6
47.5°	707.1	762.0	808.2	792.3	714.4	631.6	534.2	436.8
50°	418.4	491.8	572.4	552.0	430.6	332.7	305.0	277.4
52.5°	248.9	315.2	395.4	387.8	292.3	216.6	200.6	184.6
55°	110.0	138.9	174.9	174.5	137.4	108.5	103.8	99.1
57.5°	50.6	63.6	78.3	78.5	64.3	51.8	44.7	37.5
60°	20.4	30.9	42.7	41.0	26.0	13.4	7.7	2.1
62.5°	5.7	13.5	23.3	22.8	12.0	3.5	2.4	1.3
65°	1.1	1.4	1.9	1.9	1.4	0.9	0.5	0.0
67.5°	0.9	1.1	1.1	0.8	0.4	0.0	0.0	0.0
70°	0.9	1.1	1.1	0.8	0.4	0.0	0.0	0.0
72.5°	0.2	0.2	0.2	0.2	0.1	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°	4.0	6.1	8.5	11.0	13.3	14.6	16.1	16.9
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)