

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: P709387

Luminaire Tested: DL2W-WB-M-125U-050D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709387
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-5, G3-2104-222-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-M-125U-050D-940-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7512.5 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.17
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

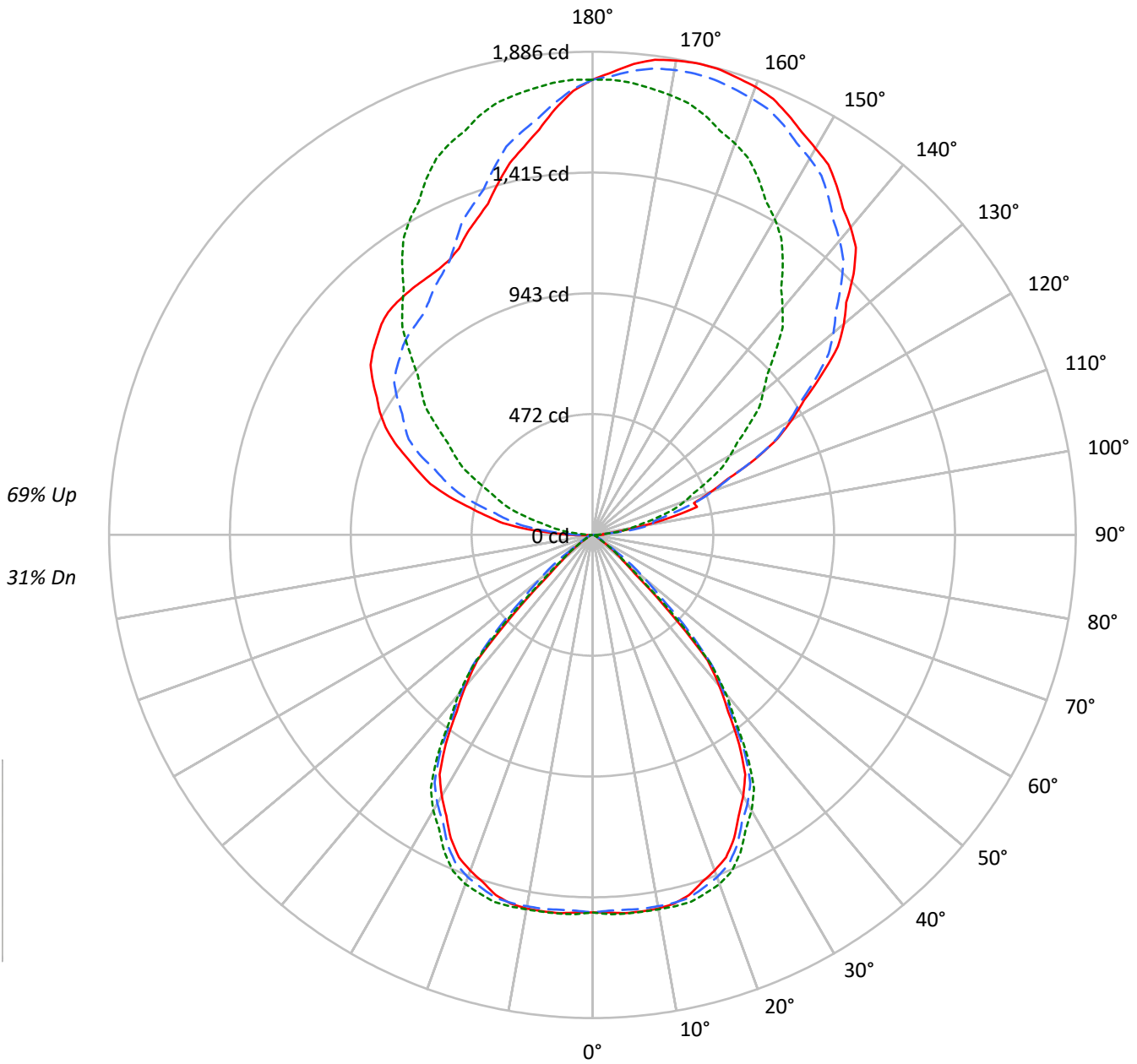
Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	95	91	87	84	85	82	79	77	65	63	62	50	49	48	36	35	35	28
2	87	81	75	71	78	73	68	65	59	56	53	45	43	42	33	32	31	26
3	80	72	65	60	72	65	60	55	53	49	46	41	39	37	30	29	28	23
4	74	64	57	52	67	59	53	48	48	43	40	37	35	32	28	26	25	21
5	68	58	51	45	61	53	47	42	43	39	35	34	31	29	26	24	23	19
6	63	52	45	40	57	48	42	37	39	35	31	31	28	26	24	22	20	17
7	59	47	40	35	53	43	37	33	36	31	28	29	26	23	22	20	19	16
8	54	43	36	31	49	40	34	29	33	28	25	26	23	21	20	18	17	15
9	51	40	33	28	46	36	30	26	30	26	23	24	21	19	19	17	16	13
10	47	36	30	25	43	33	28	24	28	24	21	23	20	17	18	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	23791	23791	23791	23791	23791
5°	24018	23803	24052	23803	24018
10°	24279	24128	24330	24128	24279
15°	24329	24495	24789	24495	24329
20°	23953	24430	24917	24430	23953
25°	23291	23802	24346	23802	23291
30°	21929	22565	23152	22565	21929
35°	19681	20408	20808	20408	19681
40°	16252	16737	17100	16737	16252
45°	9757	12085	10821	12085	9757
50°	3853	6664	4197	6664	3853
55°	2055	3023	2024	3023	2055
60°	888	1506	956	1506	888
65°	810	917	848	917	810
70°	798	854	850	854	798
75°	724	852	792	852	724
80°	688	790	790	790	688
85°	593	778	778	778	593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 12166 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	1.9
10°-20°	414.0	5.5
20°-30°	613.0	8.2
30°-40°	635.0	8.5
40°-50°	381.7	5.1
50°-60°	91.1	1.2
60°-70°	24.9	0.3
70°-80°	13.9	0.2
80°-90°	11.8	0.2
90°-100°	141.0	1.9
100°-110°	411.6	5.5
110°-120°	672.3	8.9
120°-130°	853.9	11.4
130°-140°	913.7	12.2
140°-150°	853.2	11.4
150°-160°	702.2	9.3
160°-170°	471.0	6.3
170°-180°	167.2	2.2
0°-30°	1168.1	15.5
0°-40°	1803.1	24.0
0°-60°	2275.9	30.3
0°-90°	2326.4	31.0
90°-120°	1224.9	16.3
90°-150°	3845.7	51.2
90°-180°	5186.0	69.0
0°-180°	7512.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1474	1474	1474	1474	1474	
5°	1482	1469	1484	1469	1482	141
15°	1456	1465	1483	1465	1456	409
25°	1307	1336	1367	1336	1307	597
35°	998	1035	1056	1035	998	615
45°	427	529	474	529	427	337
55°	73	107	72	107	73	70
65°	21	24	22	24	21	22
75°	12	14	13	14	12	13
85°	3	4	4	4	3	5
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°	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5
2.5°	1475.2	1476.7	1478.2	1474.0	1468.0	1467.6	1472.9	1477.4	1479.7	1481.9	1479.7
5°	1481.9	1482.9	1483.8	1477.7	1469.2	1468.1	1474.2	1479.3	1481.7	1484.0	1481.7
7.5°	1481.7	1483.1	1484.5	1479.6	1472.6	1471.6	1476.8	1481.0	1482.5	1484.0	1482.5
10°	1480.9	1482.3	1483.7	1478.8	1471.7	1471.7	1478.8	1484.0	1484.0	1484.0	1484.0
12.5°	1474.1	1476.3	1478.4	1475.1	1469.9	1472.2	1481.9	1488.7	1486.8	1484.9	1486.8
15°	1455.5	1458.8	1462.1	1462.5	1462.1	1468.7	1482.3	1491.5	1487.2	1483.0	1487.2
17.5°	1421.2	1425.7	1430.2	1434.1	1437.8	1449.0	1467.8	1480.3	1473.7	1467.1	1473.7
20°	1394.1	1397.9	1401.7	1407.9	1414.9	1428.8	1449.5	1463.4	1456.8	1450.2	1456.8
22.5°	1362.0	1366.1	1370.3	1376.3	1383.0	1397.4	1419.6	1434.5	1427.5	1420.6	1427.5
25°	1307.4	1311.2	1314.9	1321.5	1329.0	1343.1	1363.8	1377.9	1372.3	1366.6	1372.3
27.5°	1235.5	1239.6	1243.7	1250.1	1257.1	1269.6	1287.4	1300.2	1297.7	1295.1	1297.7
30°	1176.2	1181.9	1187.5	1195.6	1204.6	1216.1	1230.2	1240.9	1241.3	1241.8	1241.3
32.5°	1109.4	1116.9	1124.4	1132.7	1141.3	1152.0	1165.0	1174.6	1173.9	1173.3	1173.9
35°	998.5	1006.5	1014.5	1022.9	1031.3	1039.5	1047.5	1053.8	1054.7	1055.7	1054.7
37.5°	870.1	873.2	876.3	883.9	893.1	901.9	910.5	916.7	916.0	915.4	916.0
40°	771.1	771.6	772.1	779.6	789.4	798.8	807.8	814.1	812.7	811.3	812.7
42.5°	665.3	667.3	669.3	677.5	687.7	696.2	702.9	705.2	694.8	684.4	694.8
45°	427.3	462.1	496.9	514.4	526.2	532.3	532.8	526.5	500.2	473.9	500.2
47.5°	223.6	257.9	292.2	327.0	361.9	370.1	351.5	329.4	296.5	263.6	296.5
50°	153.4	165.1	176.9	214.7	261.3	269.3	238.7	210.4	188.8	167.1	188.8
52.5°	111.9	119.2	126.4	155.8	192.5	195.8	165.6	140.3	129.6	118.9	129.6
55°	73.0	74.9	76.7	89.9	106.8	108.0	93.4	81.3	76.6	71.9	76.6
57.5°	43.6	47.5	51.5	57.5	64.1	64.3	58.0	52.3	48.1	44.0	48.1
60°	27.5	30.3	33.1	39.1	46.2	47.1	42.0	37.1	33.4	29.6	33.4
62.5°	25.0	25.9	26.8	31.0	36.1	36.5	32.1	28.5	27.4	26.2	27.4
65°	21.2	21.6	22.1	22.9	23.9	24.1	23.6	23.2	22.7	22.2	22.7
67.5°	18.6	19.1	19.6	20.0	20.3	20.6	20.7	20.6	20.1	19.7	20.1
70°	16.9	17.4	17.9	18.0	18.0	18.2	18.7	18.9	18.5	18.0	18.5
72.5°	15.2	15.3	15.4	15.7	16.1	16.3	16.4	16.5	16.4	16.3	16.4
75°	11.6	12.1	12.6	13.0	13.5	13.8	13.8	13.6	13.2	12.7	13.2
77.5°	9.1	9.6	10.0	10.2	10.2	10.3	10.7	10.9	10.5	10.2	10.5
80°	7.4	7.9	8.3	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
82.5°	5.7	6.2	6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
85°	3.2	3.6	4.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	8.5	8.5	8.2	8.5	8.3	8.5	7.8	6.1	4.4	3.0	4.2
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°	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5
2.5°	1477.4	1472.9	1467.6	1468.0	1474.0	1478.2	1476.7	1475.2
5°	1479.3	1474.2	1468.1	1469.2	1477.7	1483.8	1482.9	1481.9
7.5°	1481.0	1476.8	1471.6	1472.6	1479.6	1484.5	1483.1	1481.7
10°	1484.0	1478.8	1471.7	1471.7	1478.8	1483.7	1482.3	1480.9
12.5°	1488.7	1481.9	1472.2	1469.9	1475.1	1478.4	1476.3	1474.1
15°	1491.5	1482.3	1468.7	1462.1	1462.5	1462.1	1458.8	1455.5
17.5°	1480.3	1467.8	1449.0	1437.8	1434.1	1430.2	1425.7	1421.2
20°	1463.4	1449.5	1428.8	1414.9	1407.9	1401.7	1397.9	1394.1
22.5°	1434.5	1419.6	1397.4	1383.0	1376.3	1370.3	1366.1	1362.0
25°	1377.9	1363.8	1343.1	1329.0	1321.5	1314.9	1311.2	1307.4
27.5°	1300.2	1287.4	1269.6	1257.1	1250.1	1243.7	1239.6	1235.5
30°	1240.9	1230.2	1216.1	1204.6	1195.6	1187.5	1181.9	1176.2
32.5°	1174.6	1165.0	1152.0	1141.3	1132.7	1124.4	1116.9	1109.4
35°	1053.8	1047.5	1039.5	1031.3	1022.9	1014.5	1006.5	998.5
37.5°	916.7	910.5	901.9	893.1	883.9	876.3	873.2	870.1
40°	814.1	807.8	798.8	789.4	779.6	772.1	771.6	771.1
42.5°	705.2	702.9	696.2	687.7	677.5	669.3	667.3	665.3
45°	526.5	532.8	532.3	526.2	514.4	496.9	462.1	427.3
47.5°	329.4	351.5	370.1	361.9	327.0	292.2	257.9	223.6
50°	210.4	238.7	269.3	261.3	214.7	176.9	165.1	153.4
52.5°	140.3	165.6	195.8	192.5	155.8	126.4	119.2	111.9
55°	81.3	93.4	108.0	106.8	89.9	76.7	74.9	73.0
57.5°	52.3	58.0	64.3	64.1	57.5	51.5	47.5	43.6
60°	37.1	42.0	47.1	46.2	39.1	33.1	30.3	27.5
62.5°	28.5	32.1	36.5	36.1	31.0	26.8	25.9	25.0
65°	23.2	23.6	24.1	23.9	22.9	22.1	21.6	21.2
67.5°	20.6	20.7	20.6	20.3	20.0	19.6	19.1	18.6
70°	18.9	18.7	18.2	18.0	18.0	17.9	17.4	16.9
72.5°	16.5	16.4	16.3	16.1	15.7	15.4	15.3	15.2
75°	13.6	13.8	13.8	13.5	13.0	12.6	12.1	11.6
77.5°	10.9	10.7	10.3	10.2	10.2	10.0	9.6	9.1
80°	8.5	8.5	8.5	8.5	8.5	8.3	7.9	7.4
82.5°	6.8	6.8	6.8	6.8	6.8	6.7	6.2	5.7
85°	4.2	4.2	4.2	4.2	4.2	4.1	3.6	3.2
87.5°	5.7	7.8	10.1	12.5	14.4	15.4	16.9	17.8
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)