

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: P709398

Luminaire Tested: DL2W-WB-M-150U-050D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

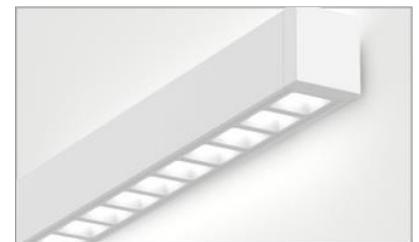
Test Information

Test Method: LM-79-2019
Report Number: P709398
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-6, 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-150U-050D-935-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8020.9 lumens
Efficiency: N/A
Efficacy: 109.6 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

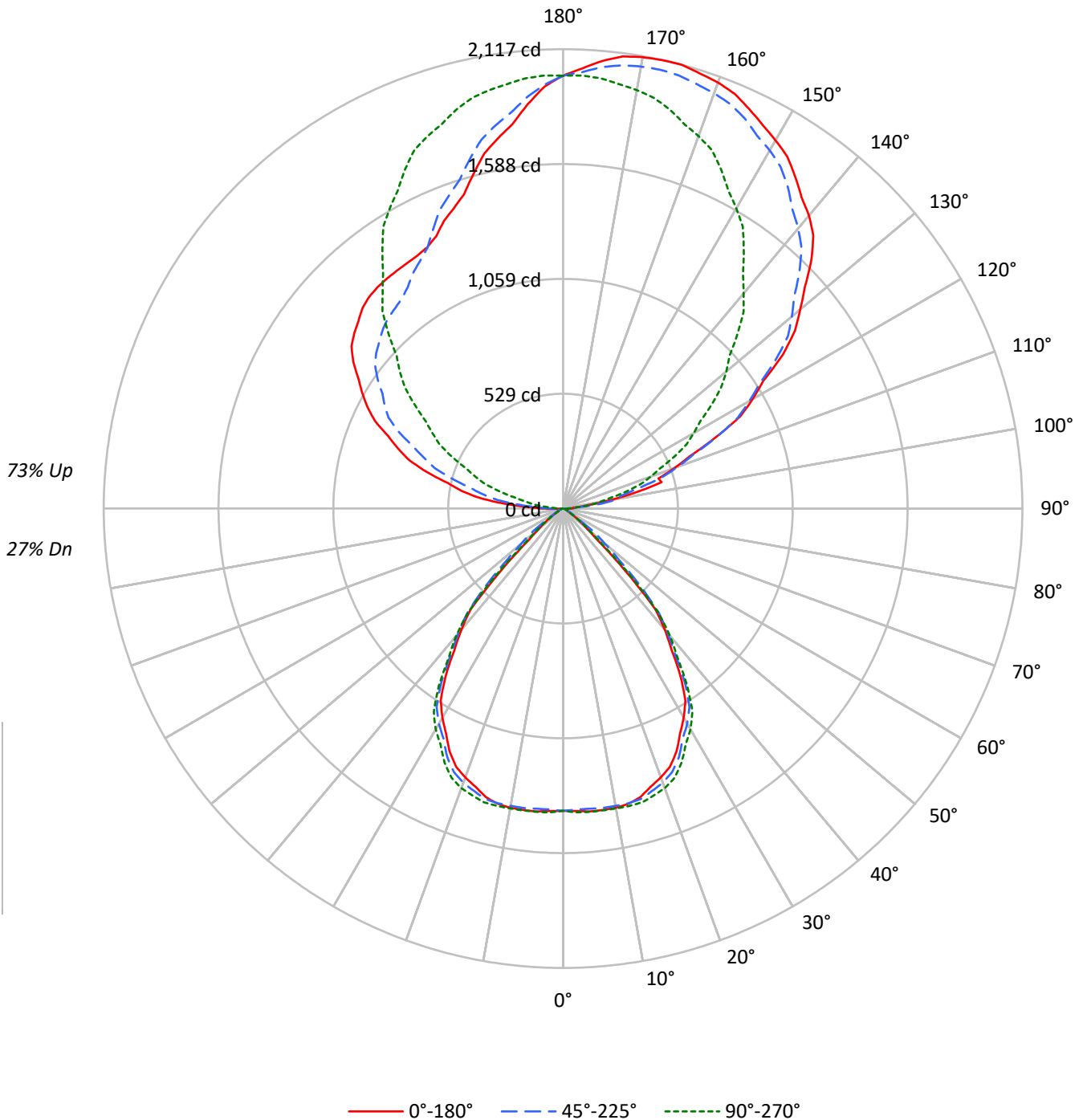
Input Watts (W): 73.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27				
1	94	90	86	83	84	81	78	75	63	61	60	47	46	45	33	32	32	25				
2	86	80	74	70	77	72	67	63	57	54	51	43	41	39	30	29	28	23				
3	79	71	64	59	71	64	59	54	51	47	44	39	37	35	28	26	25	20				
4	73	63	56	51	65	57	51	47	46	42	39	35	33	31	25	24	23	19				
5	67	57	50	44	60	52	45	41	41	37	34	32	29	27	23	22	20	17				
6	62	51	44	39	56	47	40	36	38	33	30	29	26	24	22	20	19	15				
7	58	47	39	34	52	42	36	32	34	30	27	27	24	22	20	18	17	14				
8	54	42	35	30	48	39	33	28	31	27	24	25	22	20	19	17	15	13				
9	50	39	32	27	45	35	29	25	29	25	22	23	20	18	17	15	14	12				
10	47	36	29	24	42	33	27	23	27	22	19	21	18	16	16	14	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	22491	22491	22491	22491	22491
5°	22707	22503	22739	22503	22707
10°	22953	22810	23002	22810	22953
15°	23000	23156	23435	23156	23000
20°	22646	23097	23557	23097	22646
25°	22019	22502	23017	22502	22019
30°	20732	21333	21888	21333	20732
35°	18607	19295	19671	19295	18607
40°	15365	15823	16166	15823	15365
45°	9225	11424	10229	11424	9225
50°	3642	6300	3969	6300	3642
55°	1942	2859	1914	2859	1942
60°	840	1426	904	1426	840
65°	764	867	802	867	764
70°	755	807	803	807	755
75°	686	805	749	805	686
80°	651	744	744	744	651
85°	556	741	741	741	556

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 11501 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	1.7
10°-20°	391.4	4.9
20°-30°	579.5	7.2
30°-40°	600.3	7.5
40°-50°	360.8	4.5
50°-60°	86.2	1.1
60°-70°	23.5	0.3
70°-80°	13.1	0.2
80°-90°	12.4	0.2
90°-100°	157.8	2.0
100°-110°	461.0	5.7
110°-120°	754.4	9.4
120°-130°	958.3	11.9
130°-140°	1025.8	12.8
140°-150°	958.0	11.9
150°-160°	788.4	9.8
160°-170°	528.8	6.6
170°-180°	187.7	2.3
0°-30°	1104.3	13.8
0°-40°	1704.6	21.3
0°-60°	2151.6	26.8
0°-90°	2200.6	27.4
90°-120°	1373.2	17.1
90°-150°	4315.3	53.8
90°-180°	5820.0	72.6
0°-180°	8020.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1393	1393	1393	1393	1393	
5°	1401	1388	1403	1388	1401	134
15°	1376	1385	1402	1385	1376	387
25°	1236	1263	1292	1263	1236	565
35°	944	979	998	979	944	582
45°	404	500	448	500	404	318
55°	69	102	68	102	69	67
65°	20	23	21	23	20	20
75°	11	13	12	13	11	12
85°	3	4	4	4	3	4
90°	42	38	7	54	88	20
95°	46	62	64	204	283	78
105°	470	351	297	526	649	436
115°	776	782	564	834	956	768
125°	1236	1196	836	1044	1180	1094
135°	1618	1540	1136	1173	1307	1241
145°	1866	1806	1452	1247	1337	1168
155°	2031	1982	1724	1418	1384	937
165°	2117	2066	1903	1664	1596	597
175°	2071	2042	1990	1903	1870	199
180°	1995	1995	1995	1995	1995	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0
2.5°	1394.6	1396.0	1397.4	1393.5	1387.8	1387.5	1392.5	1396.7	1398.9	1401.0	1398.9
5°	1401.0	1401.9	1402.8	1397.0	1389.0	1387.9	1393.7	1398.6	1400.8	1403.0	1400.8
7.5°	1400.8	1402.1	1403.5	1398.8	1392.1	1391.2	1396.1	1400.2	1401.6	1403.0	1401.6
10°	1400.0	1401.3	1402.7	1398.0	1391.3	1391.3	1398.0	1403.0	1403.0	1403.0	1403.0
12.5°	1393.6	1395.6	1397.7	1394.5	1389.6	1391.8	1400.9	1407.4	1405.6	1403.8	1405.6
15°	1376.0	1379.1	1382.2	1382.7	1382.2	1388.4	1401.3	1410.0	1406.0	1402.0	1406.0
17.5°	1343.6	1347.9	1352.1	1355.8	1359.3	1369.9	1387.7	1399.4	1393.2	1387.0	1393.2
20°	1318.0	1321.6	1325.1	1331.0	1337.7	1350.8	1370.3	1383.4	1377.2	1371.0	1377.2
22.5°	1287.6	1291.5	1295.4	1301.1	1307.4	1321.1	1342.1	1356.2	1349.6	1343.0	1349.6
25°	1236.0	1239.6	1243.1	1249.3	1256.4	1269.8	1289.3	1302.7	1297.3	1292.0	1297.3
27.5°	1168.0	1171.9	1175.8	1181.8	1188.5	1200.2	1217.1	1229.2	1226.8	1224.4	1226.8
30°	1112.0	1117.3	1122.7	1130.3	1138.8	1149.7	1163.0	1173.1	1173.6	1174.0	1173.6
32.5°	1048.8	1055.9	1063.0	1070.9	1079.0	1089.1	1101.4	1110.4	1109.8	1109.2	1109.8
35°	944.0	951.6	959.1	967.0	975.0	982.8	990.3	996.2	997.1	998.0	997.1
37.5°	822.6	825.5	828.5	835.7	844.3	852.6	860.7	866.6	866.0	865.4	866.0
40°	729.0	729.4	729.9	737.0	746.3	755.2	763.7	769.7	768.3	767.0	768.3
42.5°	629.0	630.9	632.7	640.5	650.2	658.2	664.5	666.7	656.9	647.0	656.9
45°	404.0	436.9	469.8	486.3	497.4	503.2	503.7	497.8	472.9	448.0	472.9
47.5°	211.4	243.8	276.3	309.1	342.1	349.8	332.3	311.4	280.3	249.2	280.3
50°	145.0	156.1	167.2	203.0	247.0	254.6	225.7	198.9	178.4	158.0	178.4
52.5°	105.8	112.6	119.5	147.3	182.0	185.1	156.6	132.7	122.5	112.4	122.5
55°	69.0	70.8	72.6	85.0	101.0	102.1	88.3	76.9	72.4	68.0	72.4
57.5°	41.2	44.9	48.7	54.3	60.6	60.8	54.9	49.4	45.5	41.6	45.5
60°	26.0	28.7	31.3	37.0	43.7	44.6	39.7	35.1	31.6	28.0	31.6
62.5°	23.6	24.5	25.4	29.3	34.2	34.5	30.3	26.9	25.9	24.8	25.9
65°	20.0	20.4	20.9	21.7	22.6	22.8	22.3	21.9	21.4	21.0	21.4
67.5°	17.6	18.0	18.5	18.9	19.2	19.4	19.5	19.5	19.0	18.6	19.0
70°	16.0	16.4	16.9	17.0	17.0	17.2	17.7	17.9	17.4	17.0	17.4
72.5°	14.4	14.5	14.6	14.9	15.2	15.4	15.5	15.6	15.5	15.4	15.5
75°	11.0	11.4	11.9	12.3	12.8	13.0	13.0	12.9	12.4	12.0	12.4
77.5°	8.6	9.0	9.5	9.6	9.6	9.8	10.1	10.3	10.0	9.6	10.0
80°	7.0	7.4	7.9	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
82.5°	5.4	5.8	6.3	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
85°	3.0	3.4	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
87.5°	9.2	9.4	9.2	9.1	9.2	9.2	8.0	6.4	4.6	3.0	4.6
90°	42.0	43.0	42.0	40.0	39.0	38.0	32.0	24.0	15.0	7.0	15.0
92.5°	51.6	51.0	50.8	48.8	47.0	42.0	34.4	34.4	35.0	22.2	37.4
95°	46.0	46.0	45.0	45.0	53.0	71.0	98.0	97.0	70.0	64.0	90.0
97.5°	106.8	107.0	120.8	149.8	174.2	187.0	174.4	131.0	128.6	123.6	161.4
100°	214.0	211.0	232.0	257.0	283.0	231.0	184.0	183.0	175.0	166.0	215.0
102.5°	340.4	352.6	360.8	361.0	287.0	256.6	247.2	239.0	222.2	216.4	264.6
105°	470.0	450.0	388.0	352.0	347.0	355.0	356.0	326.0	300.0	297.0	345.0
107.5°	461.2	454.2	458.8	467.8	475.8	476.6	464.2	420.8	381.2	375.4	417.4
110°	546.0	543.0	550.0	555.0	563.0	559.0	541.0	492.0	442.0	429.0	471.0

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	634.0	639.8	639.6	648.6	651.0	646.2	617.0	561.6	503.6	483.4	523.8
115°	776.0	774.0	781.0	783.0	788.0	775.0	731.0	667.0	594.0	564.0	600.0
117.5°	920.2	914.2	914.2	925.4	921.6	894.4	849.6	773.6	691.6	642.0	669.4
120°	1009.0	1007.0	1007.0	1011.0	1008.0	976.0	928.0	844.0	754.0	694.0	715.0
122.5°	1093.0	1100.6	1094.2	1096.6	1090.4	1059.2	999.2	914.4	816.4	750.8	759.0
125°	1236.0	1228.0	1223.0	1221.0	1214.0	1179.0	1114.0	1022.0	916.0	836.0	825.0
127.5°	1347.0	1350.0	1344.2	1337.0	1323.4	1288.6	1222.2	1129.4	1018.8	918.0	893.8
130°	1427.0	1430.0	1425.0	1417.0	1397.0	1355.0	1295.0	1203.0	1090.0	982.0	941.0
132.5°	1511.8	1509.2	1502.6	1485.0	1464.2	1424.6	1360.6	1274.2	1154.0	1039.6	989.0
135°	1618.0	1619.0	1604.0	1586.0	1562.0	1518.0	1465.0	1380.0	1260.0	1136.0	1063.0
137.5°	1707.0	1705.4	1690.6	1675.6	1645.8	1607.6	1556.6	1476.0	1358.8	1231.6	1140.2
140°	1763.0	1763.0	1749.0	1730.0	1705.0	1666.0	1615.0	1536.0	1426.0	1294.0	1197.0
142.5°	1806.2	1807.0	1793.0	1778.8	1753.8	1719.6	1669.4	1593.6	1483.6	1362.0	1253.0
145°	1866.0	1870.0	1859.0	1847.0	1823.0	1790.0	1750.0	1672.0	1574.0	1452.0	1342.0
147.5°	1923.0	1927.0	1920.4	1908.0	1884.0	1849.6	1813.2	1742.4	1649.8	1541.0	1429.0
150°	1959.0	1963.0	1954.0	1944.0	1924.0	1888.0	1854.0	1784.0	1697.0	1597.0	1489.0
152.5°	1992.6	1996.6	1989.2	1977.6	1954.4	1919.2	1890.0	1822.4	1741.8	1650.6	1545.8
155°	2031.0	2040.0	2033.0	2022.0	1999.0	1966.0	1939.0	1877.0	1804.0	1724.0	1627.0
157.5°	2068.2	2078.0	2068.2	2057.8	2030.8	2003.0	1977.8	1920.8	1857.8	1789.2	1701.4
160°	2089.0	2098.0	2089.0	2077.0	2050.0	2023.0	2001.0	1948.0	1889.0	1826.0	1751.0
162.5°	2101.8	2111.6	2104.2	2090.6	2062.8	2038.2	2017.8	1969.6	1915.4	1858.0	1789.4
165°	2117.0	2128.0	2119.0	2103.0	2076.0	2056.0	2039.0	1996.0	1950.0	1903.0	1848.0
167.5°	2116.8	2129.4	2120.2	2109.6	2079.0	2063.6	2049.0	2014.0	1975.4	1938.0	1894.0
170°	2112.0	2123.0	2117.0	2108.0	2075.0	2062.0	2053.0	2022.0	1989.0	1958.0	1922.0
172.5°	2101.6	2111.8	2105.0	2096.0	2065.4	2054.8	2050.6	2025.2	1997.0	1973.2	1942.8
175°	2071.0	2085.0	2080.0	2072.0	2045.0	2039.0	2040.0	2023.0	2005.0	1990.0	1972.0
177.5°	2030.2	2039.0	2038.2	2031.0	2012.6	2014.2	2020.6	2010.2	2003.0	1997.4	1988.6
180°	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0
2.5°	1396.7	1392.5	1387.5	1387.8	1393.5	1397.4	1396.0	1394.6
5°	1398.6	1393.7	1387.9	1389.0	1397.0	1402.8	1401.9	1401.0
7.5°	1400.2	1396.1	1391.2	1392.1	1398.8	1403.5	1402.1	1400.8
10°	1403.0	1398.0	1391.3	1391.3	1398.0	1402.7	1401.3	1400.0
12.5°	1407.4	1400.9	1391.8	1389.6	1394.5	1397.7	1395.6	1393.6
15°	1410.0	1401.3	1388.4	1382.2	1382.7	1382.2	1379.1	1376.0
17.5°	1399.4	1387.7	1369.9	1359.3	1355.8	1352.1	1347.9	1343.6
20°	1383.4	1370.3	1350.8	1337.7	1331.0	1325.1	1321.6	1318.0
22.5°	1356.2	1342.1	1321.1	1307.4	1301.1	1295.4	1291.5	1287.6
25°	1302.7	1289.3	1269.8	1256.4	1249.3	1243.1	1239.6	1236.0
27.5°	1229.2	1217.1	1200.2	1188.5	1181.8	1175.8	1171.9	1168.0
30°	1173.1	1163.0	1149.7	1138.8	1130.3	1122.7	1117.3	1112.0
32.5°	1110.4	1101.4	1089.1	1079.0	1070.9	1063.0	1055.9	1048.8
35°	996.2	990.3	982.8	975.0	967.0	959.1	951.6	944.0
37.5°	866.6	860.7	852.6	844.3	835.7	828.5	825.5	822.6
40°	769.7	763.7	755.2	746.3	737.0	729.9	729.4	729.0
42.5°	666.7	664.5	658.2	650.2	640.5	632.7	630.9	629.0
45°	497.8	503.7	503.2	497.4	486.3	469.8	436.9	404.0
47.5°	311.4	332.3	349.8	342.1	309.1	276.3	243.8	211.4
50°	198.9	225.7	254.6	247.0	203.0	167.2	156.1	145.0
52.5°	132.7	156.6	185.1	182.0	147.3	119.5	112.6	105.8
55°	76.9	88.3	102.1	101.0	85.0	72.6	70.8	69.0
57.5°	49.4	54.9	60.8	60.6	54.3	48.7	44.9	41.2
60°	35.1	39.7	44.6	43.7	37.0	31.3	28.7	26.0
62.5°	26.9	30.3	34.5	34.2	29.3	25.4	24.5	23.6
65°	21.9	22.3	22.8	22.6	21.7	20.9	20.4	20.0
67.5°	19.5	19.5	19.4	19.2	18.9	18.5	18.0	17.6
70°	17.9	17.7	17.2	17.0	17.0	16.9	16.4	16.0
72.5°	15.6	15.5	15.4	15.2	14.9	14.6	14.5	14.4
75°	12.9	13.0	13.0	12.8	12.3	11.9	11.4	11.0
77.5°	10.3	10.1	9.8	9.6	9.6	9.5	9.0	8.6
80°	8.0	8.0	8.0	8.0	8.0	7.9	7.4	7.0
82.5°	6.4	6.4	6.4	6.4	6.4	6.3	5.8	5.4
85°	4.0	4.0	4.0	4.0	4.0	3.9	3.4	3.0
87.5°	6.4	8.4	11.2	13.2	15.7	17.8	18.8	18.4
90°	24.0	34.0	48.0	59.0	73.0	85.0	90.0	88.0
92.5°	54.4	74.8	96.0	115.8	137.0	149.0	154.0	155.2
95°	126.0	155.0	189.0	219.0	245.0	264.0	269.0	283.0
97.5°	197.8	248.6	289.0	323.6	356.2	377.4	389.6	394.4
100°	253.0	303.0	353.0	390.0	429.0	447.0	464.0	476.0
102.5°	312.2	356.6	412.2	458.8	497.0	522.2	532.8	543.2
105°	401.0	452.0	500.0	551.0	591.0	623.0	645.0	649.0
107.5°	484.0	544.2	593.6	645.0	684.4	713.8	735.8	743.4
110°	540.0	601.0	660.0	701.0	746.0	777.0	795.0	809.0

TEST NUMBER: P709398

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	591.2	656.2	720.8	773.0	813.2	844.2	864.6	872.2
115°	669.0	734.0	802.0	867.0	910.0	932.0	947.0	956.0
117.5°	738.0	808.8	872.8	938.8	983.2	1006.2	1010.6	1017.8
120°	778.0	852.0	920.0	978.0	1028.0	1055.0	1065.0	1069.0
122.5°	819.6	890.4	956.8	1016.4	1064.8	1097.4	1113.8	1118.6
125°	877.0	947.0	1013.0	1075.0	1120.0	1153.0	1171.0	1180.0
127.5°	927.2	993.0	1062.4	1123.6	1167.8	1199.8	1219.2	1228.8
130°	964.0	1021.0	1092.0	1154.0	1199.0	1231.0	1248.0	1256.0
132.5°	999.2	1045.0	1115.2	1177.2	1224.6	1255.8	1272.8	1279.2
135°	1055.0	1082.0	1140.0	1206.0	1254.0	1284.0	1301.0	1307.0
137.5°	1115.4	1121.6	1161.2	1223.0	1272.2	1303.2	1318.0	1323.0
140°	1157.0	1152.0	1178.0	1231.0	1281.0	1312.0	1326.0	1331.0
142.5°	1202.6	1188.0	1199.6	1239.8	1284.2	1315.2	1330.0	1335.0
145°	1272.0	1245.0	1236.0	1258.0	1291.0	1317.0	1333.0	1337.0
147.5°	1351.2	1311.8	1283.2	1289.6	1306.0	1324.6	1337.8	1340.2
150°	1404.0	1355.0	1320.0	1316.0	1322.0	1335.0	1345.0	1345.0
152.5°	1456.8	1404.6	1360.0	1348.0	1346.0	1351.0	1357.8	1357.0
155°	1541.0	1480.0	1429.0	1407.0	1394.0	1390.0	1388.0	1384.0
157.5°	1622.2	1559.0	1501.8	1471.8	1455.4	1445.4	1440.6	1434.4
160°	1679.0	1611.0	1553.0	1519.0	1505.0	1487.0	1483.0	1472.0
162.5°	1723.8	1666.2	1604.2	1570.2	1551.4	1536.6	1531.0	1518.4
165°	1793.0	1743.0	1681.0	1648.0	1625.0	1612.0	1601.0	1596.0
167.5°	1854.4	1811.6	1757.8	1724.0	1712.2	1692.6	1683.4	1676.0
170°	1888.0	1854.0	1809.0	1776.0	1765.0	1751.0	1741.0	1732.0
172.5°	1916.8	1893.2	1851.4	1828.8	1818.6	1806.2	1798.6	1786.4
175°	1955.0	1940.0	1913.0	1893.0	1898.0	1886.0	1884.0	1870.0
177.5°	1982.2	1977.4	1959.0	1951.0	1960.6	1956.6	1955.8	1947.0
180°	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0

(END OF REPORT)