

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: P709378

Luminaire Tested: DL2W-WB-M-100U-075D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709378
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-4, G3-2104-222-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-M-100U-075D-940-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7549.6 lumens
Efficiency: N/A
Efficacy: 124.4 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

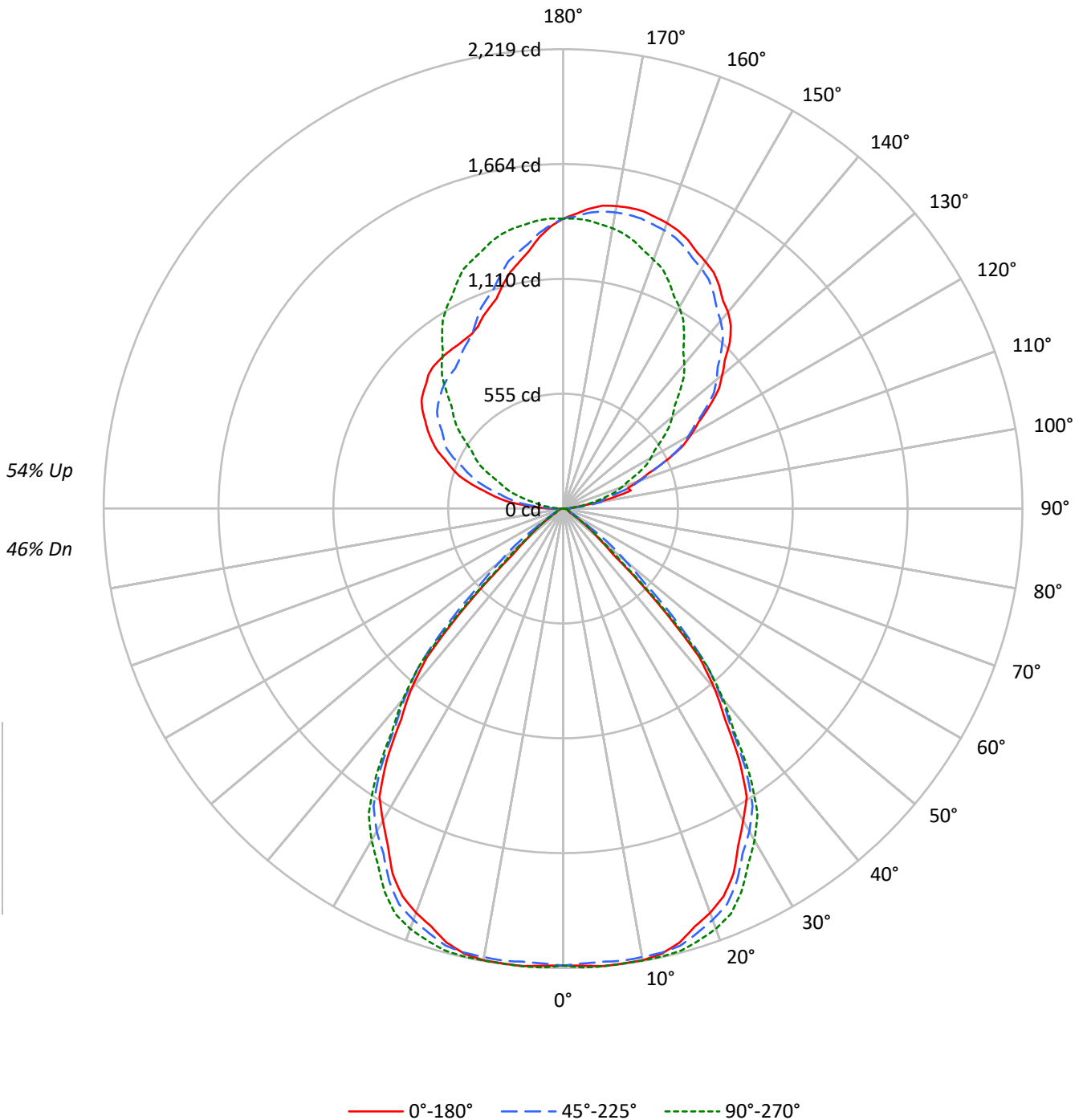
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46				
1	98	95	92	89	90	87	85	82	73	71	70	60	59	58	49	48	47	42				
2	91	85	80	75	84	78	74	70	66	63	61	55	53	51	45	44	43	38				
3	84	76	70	65	77	71	65	61	60	56	53	50	48	46	42	40	38	34				
4	78	69	62	56	72	64	58	53	55	50	47	46	43	41	38	36	35	31				
5	72	62	55	50	67	58	52	47	50	45	42	42	39	36	35	33	31	28				
6	67	56	49	44	62	53	46	42	46	41	37	39	35	33	33	30	28	26				
7	62	51	44	39	58	48	42	37	42	37	33	36	32	30	30	28	26	23				
8	58	47	40	35	54	44	38	34	39	34	30	33	30	27	28	26	24	22				
9	54	43	36	32	50	41	35	30	36	31	28	31	27	25	26	24	22	20				
10	51	40	33	29	47	38	32	28	33	28	25	29	25	23	25	22	20	18				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	35645	35645	35645	35645	35645
5°	35953	35614	35971	35614	35953
10°	36316	36070	36334	36070	36316
15°	36284	36546	36939	36546	36284
20°	35697	36327	37115	36327	35697
25°	34693	35389	36351	35389	34693
30°	32438	33557	34491	33557	32438
35°	29268	30364	31020	30364	29268
40°	24091	25004	25429	25004	24091
45°	14936	18007	15901	18007	14936
50°	5689	9854	6222	9854	5689
55°	3040	4571	3068	4571	3040
60°	1298	2222	1437	2222	1298
65°	1215	1360	1295	1360	1215
70°	1199	1293	1251	1293	1199
75°	1123	1248	1254	1248	1123
80°	1079	1190	1181	1190	1079
85°	982	1000	1186	1000	982

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 18100 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	2.8
10°-20°	617.2	8.2
20°-30°	912.6	12.1
30°-40°	944.2	12.5
40°-50°	568.0	7.5
50°-60°	135.8	1.8
60°-70°	37.1	0.5
70°-80°	20.8	0.3
80°-90°	12.4	0.2
90°-100°	111.4	1.5
100°-110°	325.4	4.3
110°-120°	530.7	7.0
120°-130°	673.4	8.9
130°-140°	720.5	9.5
140°-150°	672.7	8.9
150°-160°	553.4	7.3
160°-170°	371.2	4.9
170°-180°	131.8	1.7
0°-30°	1740.9	23.1
0°-40°	2685.2	35.6
0°-60°	3388.9	44.9
0°-90°	3459.2	45.8
90°-120°	967.5	12.8
90°-150°	3034.0	40.2
90°-180°	4090.0	54.2
0°-180°	7549.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2208	2208	2208	2208	2208	
5°	2218	2197	2219	2197	2218	211
15°	2171	2186	2210	2186	2171	610
25°	1947	1986	2040	1986	1947	888
35°	1485	1540	1574	1540	1485	913
45°	654	789	696	789	654	500
55°	108	162	109	162	108	105
65°	32	36	34	36	32	32
75°	18	20	20	20	18	19
85°	5	5	6	5	5	7
90°	30	27	4	39	67	14
95°	33	42	43	144	191	54
105°	339	247	207	370	459	311
115°	552	548	394	587	674	544
125°	864	841	584	734	830	771
135°	1140	1082	795	823	918	873
145°	1315	1268	1019	875	938	822
155°	1430	1392	1209	994	971	659
165°	1488	1451	1336	1167	1120	420
175°	1454	1435	1397	1335	1316	140
180°	1400	1400	1400	1400	1400	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7
2.5°	2209.4	2211.3	2213.2	2207.5	2199.2	2199.0	2206.9	2213.5	2216.1	2218.7	2216.1
5°	2218.3	2219.7	2221.1	2211.6	2198.4	2196.3	2205.3	2212.8	2216.1	2219.4	2216.1
7.5°	2216.0	2218.2	2220.3	2213.4	2203.4	2201.9	2208.7	2214.2	2215.6	2217.0	2215.6
10°	2215.1	2216.6	2218.0	2210.6	2200.2	2200.0	2209.9	2217.1	2216.7	2216.2	2216.7
12.5°	2202.4	2205.7	2209.0	2203.8	2195.7	2198.8	2213.2	2223.1	2219.2	2215.4	2219.2
15°	2170.7	2175.4	2180.1	2181.3	2181.3	2191.4	2211.6	2224.9	2217.4	2209.9	2217.4
17.5°	2116.5	2122.2	2128.0	2134.8	2142.1	2159.2	2186.2	2204.2	2195.3	2186.4	2195.3
20°	2077.6	2079.9	2082.3	2091.7	2103.4	2125.1	2156.6	2178.0	2169.0	2160.1	2169.0
22.5°	2026.8	2030.6	2034.5	2045.1	2058.0	2081.3	2115.1	2138.0	2128.3	2118.6	2128.3
25°	1947.4	1952.6	1957.7	1966.1	1975.5	1997.4	2031.7	2055.6	2048.0	2040.5	2048.0
27.5°	1833.1	1840.2	1847.4	1857.2	1867.9	1889.4	1921.6	1944.6	1940.5	1936.4	1940.5
30°	1739.9	1751.2	1762.5	1775.9	1790.0	1809.8	1835.2	1853.8	1851.9	1850.0	1851.9
32.5°	1651.0	1660.1	1669.1	1681.4	1694.7	1712.6	1735.0	1751.3	1749.4	1747.6	1749.4
35°	1484.9	1494.3	1503.7	1517.7	1533.2	1547.8	1561.4	1571.9	1572.8	1573.8	1572.8
37.5°	1286.1	1295.6	1305.1	1316.7	1328.9	1340.4	1351.2	1359.0	1357.7	1356.4	1357.7
40°	1143.0	1145.4	1147.7	1161.7	1179.6	1193.0	1201.9	1208.4	1207.5	1206.5	1207.5
42.5°	972.0	983.0	994.0	1007.1	1020.8	1033.8	1046.2	1051.9	1037.8	1023.6	1037.8
45°	654.1	699.2	744.4	768.0	784.5	792.7	792.7	782.0	739.2	696.4	739.2
47.5°	328.9	383.8	438.6	489.0	538.0	549.2	522.8	490.7	442.0	393.3	442.0
50°	226.5	244.8	263.2	318.6	386.3	398.3	354.5	313.5	280.6	247.7	280.6
52.5°	166.4	176.1	185.8	231.1	288.3	293.9	247.9	209.2	192.4	175.7	192.4
55°	108.0	111.7	115.5	135.8	161.7	163.1	140.1	121.2	115.1	109.0	115.1
57.5°	65.6	71.5	77.5	85.7	94.8	94.8	85.7	77.4	71.1	64.8	71.1
60°	40.2	45.4	50.6	58.9	68.3	69.3	61.7	54.8	49.6	44.5	49.6
62.5°	36.8	38.6	40.4	46.5	54.0	54.6	48.2	42.9	40.7	38.5	40.7
65°	31.8	32.7	33.6	34.6	35.5	35.7	35.3	34.8	34.3	33.9	34.3
67.5°	27.9	28.8	29.6	29.9	30.0	30.2	30.6	30.8	30.3	29.8	30.3
70°	25.4	25.9	26.3	26.8	27.3	27.5	27.5	27.4	26.9	26.5	26.9
72.5°	22.0	22.9	23.7	24.0	24.1	24.3	24.7	24.9	24.4	23.9	24.4
75°	18.0	18.5	18.9	19.4	19.9	20.1	20.1	20.1	20.1	20.1	20.1
77.5°	14.2	14.7	15.1	15.2	15.2	15.5	15.9	16.2	15.7	15.2	15.7
80°	11.6	12.1	12.6	12.7	12.7	12.9	13.4	13.6	13.2	12.7	13.2
82.5°	9.1	9.6	10.0	10.2	10.2	10.2	10.3	10.3	10.3	10.2	10.3
85°	5.3	5.3	5.3	5.3	5.3	5.5	6.0	6.4	6.4	6.4	6.4
87.5°	7.6	7.8	7.8	7.2	7.2	7.2	6.7	6.0	4.2	2.5	4.0
90°	29.6	30.6	30.6	27.5	27.5	26.4	22.2	18.0	10.6	4.2	9.5
92.5°	36.4	35.7	35.7	34.2	32.6	29.8	24.7	23.9	25.8	16.1	27.3
95°	32.8	32.8	31.7	31.7	37.0	46.5	68.7	75.0	48.6	43.3	62.4
97.5°	75.0	79.9	89.0	102.7	126.2	134.6	124.5	93.8	88.8	85.6	113.9
100°	142.7	154.3	165.9	179.7	208.2	170.1	132.1	126.8	118.4	119.4	151.1
102.5°	249.2	249.8	254.7	260.0	204.8	181.1	175.2	168.2	154.7	154.9	187.5
105°	339.2	317.0	276.9	249.4	245.2	249.4	249.4	233.6	206.1	207.1	241.0
107.5°	327.4	324.9	326.6	327.6	334.4	335.9	326.8	298.2	269.9	264.0	298.2
110°	385.7	385.7	390.0	391.0	399.5	394.2	382.6	345.6	309.6	301.2	332.9

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	449.1	450.0	451.7	457.0	461.2	453.4	435.0	394.6	353.6	336.7	367.6
115°	551.7	550.6	550.6	554.8	552.7	544.3	516.8	470.3	417.4	394.2	420.6
117.5°	649.1	643.8	645.1	643.4	646.6	629.7	597.3	540.5	483.8	451.5	470.9
120°	713.4	708.1	710.2	710.2	709.1	688.0	648.9	592.9	529.5	490.4	503.0
122.5°	775.9	772.3	772.7	770.2	767.5	747.2	701.3	642.8	573.4	525.0	532.6
125°	864.5	866.6	860.3	860.3	850.7	830.7	782.0	719.7	644.7	584.4	580.2
127.5°	948.2	951.1	944.8	941.0	933.6	903.4	859.0	796.4	715.9	645.1	628.2
130°	1004.0	1006.1	1004.0	993.4	981.8	953.3	908.9	849.7	764.1	689.0	659.5
132.5°	1059.8	1064.4	1053.9	1045.8	1028.3	998.9	955.4	897.9	812.3	730.5	693.3
135°	1140.3	1137.1	1126.6	1113.9	1095.9	1067.4	1027.2	967.0	885.6	794.7	747.2
137.5°	1199.9	1200.3	1190.0	1176.0	1157.6	1131.0	1093.0	1036.3	953.5	864.5	803.4
140°	1239.6	1237.5	1228.0	1213.2	1197.4	1169.9	1136.1	1081.1	996.6	911.0	842.3
142.5°	1267.5	1269.7	1261.8	1249.6	1231.2	1207.1	1172.4	1117.5	1043.1	954.1	882.0
145°	1314.7	1314.7	1307.3	1298.8	1281.9	1254.4	1228.0	1174.1	1103.3	1018.8	939.5
147.5°	1353.2	1353.8	1349.1	1339.2	1322.7	1299.0	1272.4	1224.2	1158.5	1080.3	1003.3
150°	1376.0	1379.2	1372.8	1365.4	1350.6	1325.3	1302.0	1255.5	1193.1	1123.4	1043.1
152.5°	1398.0	1402.0	1396.5	1387.4	1372.6	1347.2	1327.4	1281.7	1223.6	1158.9	1082.0
155°	1429.9	1433.0	1428.8	1420.4	1403.5	1380.2	1362.2	1320.0	1268.2	1209.0	1140.3
157.5°	1453.6	1458.6	1452.5	1444.9	1426.7	1406.2	1389.3	1350.0	1303.7	1254.2	1192.9
160°	1467.9	1472.2	1466.9	1458.4	1439.4	1421.4	1404.5	1368.6	1327.4	1278.8	1225.9
162.5°	1477.2	1484.0	1477.9	1468.6	1448.7	1431.6	1417.2	1383.0	1345.1	1304.1	1255.5
165°	1488.0	1493.3	1488.0	1478.5	1458.4	1443.6	1432.0	1402.4	1369.6	1335.8	1294.6
167.5°	1488.0	1494.6	1489.5	1481.2	1460.1	1448.7	1439.8	1415.1	1387.8	1359.7	1329.1
170°	1483.8	1491.2	1486.9	1479.5	1458.4	1447.8	1441.5	1419.3	1397.1	1374.9	1348.5
172.5°	1476.2	1483.6	1478.5	1471.9	1450.8	1443.6	1439.8	1421.8	1403.0	1385.1	1363.7
175°	1454.2	1463.7	1460.5	1453.1	1437.3	1432.0	1433.0	1420.4	1407.7	1397.1	1383.4
177.5°	1424.8	1431.6	1428.2	1426.5	1413.8	1412.1	1418.0	1412.1	1406.2	1402.0	1396.1
180°	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7
2.5°	2213.5	2206.9	2199.0	2199.2	2207.5	2213.2	2211.3	2209.4
5°	2212.8	2205.3	2196.3	2198.4	2211.6	2221.1	2219.7	2218.3
7.5°	2214.2	2208.7	2201.9	2203.4	2213.4	2220.3	2218.2	2216.0
10°	2217.1	2209.9	2200.0	2200.2	2210.6	2218.0	2216.6	2215.1
12.5°	2223.1	2213.2	2198.8	2195.7	2203.8	2209.0	2205.7	2202.4
15°	2224.9	2211.6	2191.4	2181.3	2181.3	2180.1	2175.4	2170.7
17.5°	2204.2	2186.2	2159.2	2142.1	2134.8	2128.0	2122.2	2116.5
20°	2178.0	2156.6	2125.1	2103.4	2091.7	2082.3	2079.9	2077.6
22.5°	2138.0	2115.1	2081.3	2058.0	2045.1	2034.5	2030.6	2026.8
25°	2055.6	2031.7	1997.4	1975.5	1966.1	1957.7	1952.6	1947.4
27.5°	1944.6	1921.6	1889.4	1867.9	1857.2	1847.4	1840.2	1833.1
30°	1853.8	1835.2	1809.8	1790.0	1775.9	1762.5	1751.2	1739.9
32.5°	1751.3	1735.0	1712.6	1694.7	1681.4	1669.1	1660.1	1651.0
35°	1571.9	1561.4	1547.8	1533.2	1517.7	1503.7	1494.3	1484.9
37.5°	1359.0	1351.2	1340.4	1328.9	1316.7	1305.1	1295.6	1286.1
40°	1208.4	1201.9	1193.0	1179.6	1161.7	1147.7	1145.4	1143.0
42.5°	1051.9	1046.2	1033.8	1020.8	1007.1	994.0	983.0	972.0
45°	782.0	792.7	792.7	784.5	768.0	744.4	699.2	654.1
47.5°	490.7	522.8	549.2	538.0	489.0	438.6	383.8	328.9
50°	313.5	354.5	398.3	386.3	318.6	263.2	244.8	226.5
52.5°	209.2	247.9	293.9	288.3	231.1	185.8	176.1	166.4
55°	121.2	140.1	163.1	161.7	135.8	115.5	111.7	108.0
57.5°	77.4	85.7	94.8	94.8	85.7	77.5	71.5	65.6
60°	54.8	61.7	69.3	68.3	58.9	50.6	45.4	40.2
62.5°	42.9	48.2	54.6	54.0	46.5	40.4	38.6	36.8
65°	34.8	35.3	35.7	35.5	34.6	33.6	32.7	31.8
67.5°	30.8	30.6	30.2	30.0	29.9	29.6	28.8	27.9
70°	27.4	27.5	27.5	27.3	26.8	26.3	25.9	25.4
72.5°	24.9	24.7	24.3	24.1	24.0	23.7	22.9	22.0
75°	20.1	20.1	20.1	19.9	19.4	18.9	18.5	18.0
77.5°	16.2	15.9	15.5	15.2	15.2	15.1	14.7	14.2
80°	13.6	13.4	12.9	12.7	12.7	12.6	12.1	11.6
82.5°	10.3	10.3	10.2	10.2	10.2	10.0	9.6	9.1
85°	6.4	6.0	5.5	5.3	5.3	5.3	5.3	5.3
87.5°	5.8	7.1	8.4	10.6	12.3	13.5	14.2	15.0
90°	16.9	24.3	32.8	44.4	52.8	59.2	62.4	66.6
92.5°	38.9	53.9	65.7	79.9	95.1	103.1	108.0	109.7
95°	89.8	108.9	133.2	154.3	173.3	186.0	193.4	191.3
97.5°	139.3	174.8	202.5	227.0	249.2	264.4	276.5	275.4
100°	180.7	210.3	247.3	276.9	299.1	316.0	329.7	332.9
102.5°	222.1	250.0	290.4	323.4	349.0	367.6	377.9	387.9
105°	280.1	319.2	349.8	390.0	416.4	440.7	448.1	458.7
107.5°	340.7	383.6	417.7	451.1	482.3	502.6	518.5	526.9
110°	380.5	421.7	465.0	496.7	526.3	547.4	563.3	571.7

TEST NUMBER: P709378

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	416.0	461.4	508.1	543.2	570.3	594.8	608.1	617.4
115°	468.2	517.8	564.3	609.8	636.2	655.2	666.9	674.3
117.5°	515.9	567.7	613.0	658.8	691.8	705.7	710.2	715.7
120°	546.4	598.2	642.5	685.9	723.9	738.7	748.2	754.6
122.5°	573.4	625.2	672.1	712.9	749.3	770.0	781.2	789.2
125°	615.1	663.7	712.3	755.6	785.2	807.4	822.2	829.6
127.5°	650.2	696.9	746.7	788.4	820.3	843.8	856.0	861.7
130°	676.4	715.5	766.2	809.5	842.3	866.6	877.2	880.3
132.5°	701.7	733.2	781.4	827.3	860.0	881.8	893.2	896.4
135°	740.8	758.8	801.1	845.5	879.3	901.5	912.0	918.4
137.5°	783.9	788.6	814.8	858.3	893.2	914.6	925.1	928.9
140°	812.7	810.6	827.5	863.4	898.3	920.5	931.1	933.2
142.5°	843.1	834.3	840.2	869.3	900.8	922.2	933.6	936.6
145°	894.1	875.0	867.6	882.4	905.7	923.7	936.3	938.5
147.5°	948.8	918.2	901.5	904.2	916.9	929.6	939.5	939.7
150°	986.0	951.1	926.8	923.7	927.9	936.3	943.7	944.8
152.5°	1021.5	984.1	954.7	946.5	944.0	949.0	952.2	952.4
155°	1081.1	1041.0	1002.9	985.0	977.6	975.4	974.4	971.2
157.5°	1137.6	1094.9	1052.8	1033.4	1021.5	1015.0	1010.1	1006.7
160°	1173.1	1128.7	1087.5	1066.3	1053.6	1046.3	1038.9	1034.6
162.5°	1209.4	1167.6	1125.5	1101.0	1088.3	1080.1	1071.8	1065.1
165°	1257.6	1222.7	1180.5	1154.0	1138.2	1132.9	1125.5	1120.2
167.5°	1299.9	1272.8	1235.0	1210.1	1198.0	1188.3	1180.9	1171.4
170°	1325.3	1304.1	1267.1	1243.9	1238.6	1228.0	1220.6	1211.1
172.5°	1345.5	1328.6	1299.3	1280.2	1275.8	1269.5	1263.7	1255.9
175°	1372.8	1364.4	1342.2	1328.4	1328.4	1326.3	1325.3	1315.7
177.5°	1391.8	1387.6	1374.9	1368.2	1374.1	1375.8	1371.5	1363.9
180°	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3

(END OF REPORT)