

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: P709381

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

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709381
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-4, 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-100U-100D-940-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

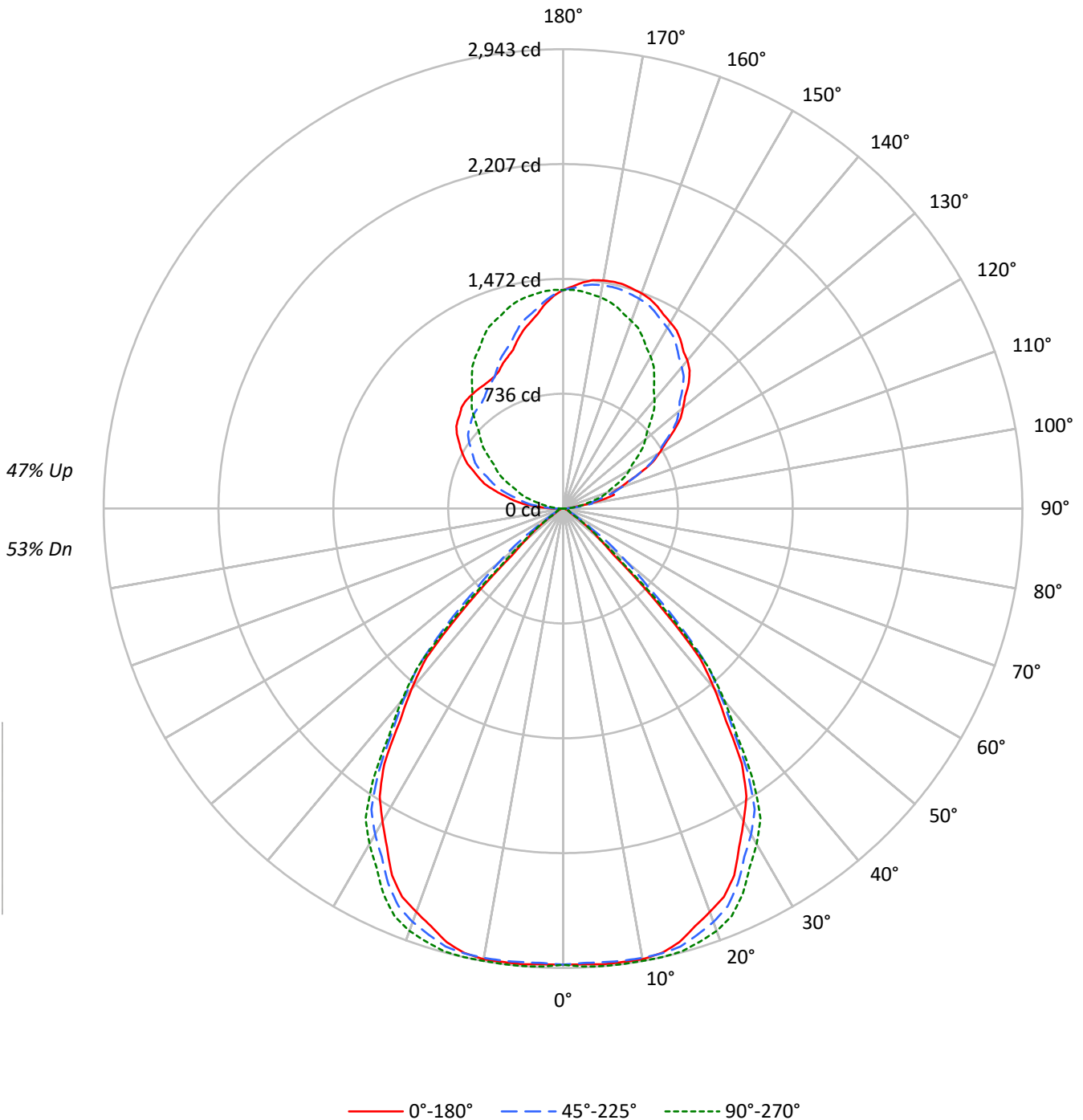
Lumens per Lamp: N/A
Luminaire Lumens: 8707.6 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.18
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 71.2
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	0
RCR																		
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	100	97	93	91	93	90	87	85	77	75	74	66	64	63	55	54	53	48
2	93	87	82	77	86	81	77	73	70	67	64	60	58	56	51	49	48	44
3	86	78	72	67	80	73	68	63	64	60	57	55	52	50	47	45	43	40
4	80	71	64	59	74	66	60	56	58	54	50	50	47	45	43	41	39	36
5	74	64	57	52	69	60	54	49	53	48	45	46	43	40	40	38	36	33
6	69	58	51	46	64	55	49	44	49	44	40	43	39	36	37	34	32	30
7	64	53	46	41	60	50	44	40	45	40	36	39	36	33	35	32	30	27
8	60	49	42	37	56	46	40	36	41	36	33	37	33	30	32	29	27	25
9	56	45	38	34	53	43	37	32	38	33	30	34	30	27	30	27	25	23
10	53	42	35	31	49	40	34	30	35	31	27	32	28	25	28	25	23	21

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	3.2
10°-20°	820.3	9.4
20°-30°	1217.5	14.0
30°-40°	1264.6	14.5
40°-50°	761.0	8.7
50°-60°	182.3	2.1
60°-70°	49.4	0.6
70°-80°	27.8	0.3
80°-90°	14.5	0.2
90°-100°	111.4	1.3
100°-110°	325.4	3.7
110°-120°	530.7	6.1
120°-130°	673.4	7.7
130°-140°	720.5	8.3
140°-150°	672.7	7.7
150°-160°	553.4	6.4
160°-170°	371.2	4.3
170°-180°	131.8	1.5
0°-30°	2317.7	26.6
0°-40°	3582.3	41.1
0°-60°	4525.5	52.0
0°-90°	4617.2	53.0
90°-120°	967.5	11.1
90°-150°	3034.0	34.8
90°-180°	4090.0	47.0
0°-180°	8707.6	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°	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°	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°	8.5	8.7	8.7	8.0	8.0	7.8	7.0	6.1	4.7	3.4	4.4
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°	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°	5.9	7.4	9.1	11.4	13.1	14.4	15.0	15.9
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: P709381

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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)