

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: P709292

Luminaire Tested: DL2W-BB-M-100U-075D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709292
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-4, G3-2104-222-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-BB-M-100U-075D-930-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: 6604.8 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.22 / 1.16
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

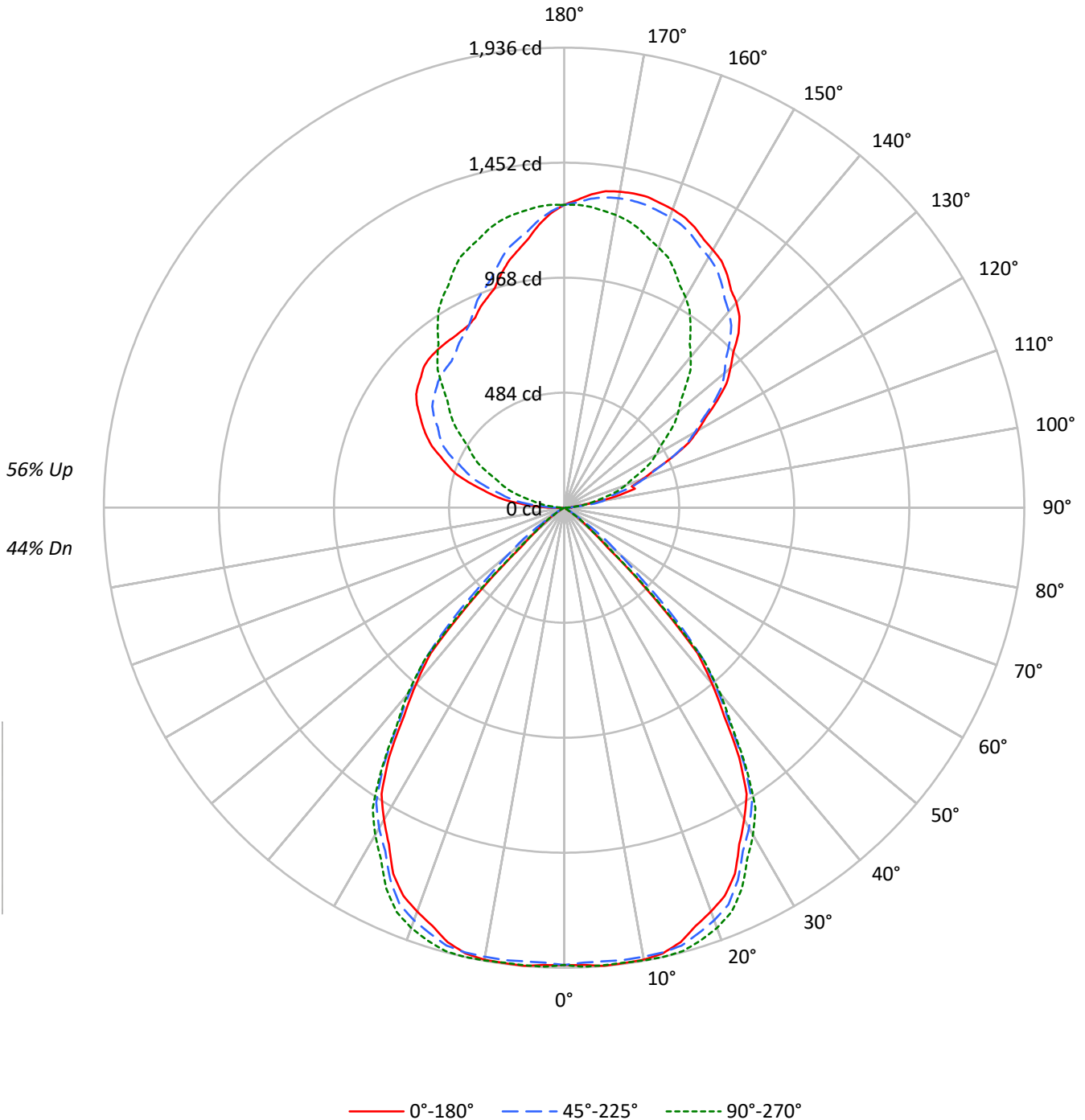
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44
1	98	94	91	88	90	87	84	82	72	71	69	59	58	57	47	46	46	40
2	91	85	79	75	83	78	74	70	66	63	60	54	52	50	44	42	41	37
3	84	76	70	65	77	70	65	61	60	56	53	50	47	45	40	39	37	33
4	78	69	62	57	71	64	58	53	54	50	47	46	43	40	37	35	34	30
5	72	62	55	50	66	58	52	47	49	45	41	42	39	36	35	33	31	28
6	67	56	49	44	62	53	46	42	45	41	37	38	35	33	32	30	28	25
7	62	51	44	39	58	48	42	37	42	37	33	36	32	30	30	27	26	23
8	58	47	40	35	54	44	38	34	38	34	30	33	29	27	28	25	24	21
9	54	43	37	32	50	41	35	31	35	31	28	31	27	25	26	23	22	20
10	51	40	33	29	47	38	32	28	33	28	25	28	25	23	24	22	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	31074	31074	31074	31074	31074
5°	31365	31051	31318	31051	31365
10°	31665	31456	31713	31456	31665
15°	31641	31890	32284	31890	31641
20°	31067	31739	32325	31739	31067
25°	30291	30807	31525	30807	30291
30°	28253	29013	29636	29013	28253
35°	25316	26086	26302	26086	25316
40°	20415	21203	21572	21203	20415
45°	12070	15003	12860	15003	12070
50°	3798	7672	4014	7672	3798
55°	1517	2698	1517	2698	1517
60°	32	733	94	733	32
65°	0	27	0	27	0
70°	0	0	0	0	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: 50°
 Vertical Angle: 45°
 Luminance: 15057 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.0	2.8
10°-20°	539.1	8.2
20°-30°	793.0	12.0
30°-40°	810.5	12.3
40°-50°	466.9	7.1
50°-60°	80.4	1.2
60°-70°	2.9	0.0
70°-80°	0.0	0.0
80°-90°	6.8	0.1
90°-100°	101.4	1.5
100°-110°	296.2	4.5
110°-120°	483.0	7.3
120°-130°	612.9	9.3
130°-140°	655.7	9.9
140°-150°	612.2	9.3
150°-160°	503.7	7.6
160°-170°	337.8	5.1
170°-180°	120.0	1.8
0°-30°	1516.1	23.0
0°-40°	2326.7	35.2
0°-60°	2874.0	43.5
0°-90°	2883.7	43.7
90°-120°	880.5	13.3
90°-150°	2761.2	41.8
90°-180°	3723.0	56.4
0°-180°	6604.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1925	1925	1925	1925	1925	
5°	1935	1916	1932	1916	1935	184
15°	1893	1908	1931	1908	1893	532
25°	1700	1729	1770	1729	1700	774
35°	1284	1323	1334	1323	1284	788
45°	529	657	563	657	529	410
55°	54	96	54	96	54	55
65°	0	1	0	1	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	2
90°	27	24	4	35	61	13
95°	30	38	39	131	174	49
105°	309	225	188	337	417	283
115°	502	499	359	534	614	495
125°	787	765	532	668	755	701
135°	1038	984	723	749	836	794
145°	1196	1154	927	796	854	748
155°	1301	1267	1100	905	884	599
165°	1354	1321	1216	1062	1020	382
175°	1323	1306	1272	1215	1197	127
180°	1274	1274	1274	1274	1274	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6
2.5°	1926.2	1927.9	1929.6	1924.1	1916.2	1915.7	1922.6	1928.3	1930.7	1933.1	1930.7
5°	1935.2	1936.1	1936.9	1928.5	1916.9	1914.8	1922.1	1928.1	1930.2	1932.3	1930.2
7.5°	1932.9	1935.0	1937.2	1930.6	1921.1	1918.9	1924.0	1928.3	1929.7	1931.2	1929.7
10°	1931.4	1933.5	1935.6	1928.8	1919.0	1918.3	1926.9	1933.4	1933.8	1934.3	1933.8
12.5°	1920.6	1924.4	1928.3	1923.4	1915.6	1918.4	1931.8	1941.1	1938.4	1935.8	1938.4
15°	1892.9	1898.4	1904.0	1904.4	1903.1	1912.5	1932.7	1945.9	1938.6	1931.4	1938.6
17.5°	1844.3	1852.2	1860.1	1865.6	1870.3	1886.0	1912.8	1930.3	1920.1	1909.8	1920.1
20°	1808.1	1815.0	1821.8	1829.6	1837.8	1856.6	1886.1	1905.3	1893.3	1881.3	1893.3
22.5°	1767.3	1772.8	1778.3	1787.3	1797.5	1816.6	1844.8	1863.2	1852.2	1841.2	1852.2
25°	1700.3	1703.3	1706.3	1712.8	1720.5	1738.1	1765.4	1784.2	1776.9	1769.6	1776.9
27.5°	1596.3	1600.2	1604.0	1612.2	1621.8	1636.8	1657.4	1672.2	1670.2	1668.1	1670.2
30°	1515.4	1522.7	1530.0	1539.5	1549.8	1562.6	1578.0	1589.6	1589.6	1589.6	1589.6
32.5°	1429.2	1436.4	1443.7	1454.0	1465.3	1476.4	1487.4	1495.9	1496.9	1497.9	1496.9
35°	1284.4	1290.8	1297.2	1307.2	1318.3	1328.6	1338.0	1343.8	1339.1	1334.4	1339.1
37.5°	1106.4	1111.8	1117.2	1127.6	1139.5	1149.1	1156.2	1161.1	1159.3	1157.5	1159.3
40°	968.6	976.7	984.8	993.3	1001.8	1010.2	1018.3	1024.3	1023.9	1023.5	1023.9
42.5°	830.7	834.0	837.4	848.5	862.2	872.9	880.7	884.4	875.7	867.1	875.7
45°	528.6	572.6	616.7	639.3	654.7	659.4	653.4	639.4	601.3	563.2	601.3
47.5°	249.0	295.6	342.3	386.9	430.8	438.7	410.7	377.9	330.5	283.1	330.5
50°	151.2	167.0	182.8	235.9	301.4	309.5	260.3	216.3	188.1	159.8	188.1
52.5°	101.9	110.8	119.8	158.6	207.3	210.1	167.1	131.7	119.2	106.7	119.2
55°	53.9	56.5	59.1	75.1	95.6	96.1	76.4	60.8	57.3	53.9	57.3
57.5°	20.2	24.4	28.6	35.1	42.4	42.2	34.5	27.5	22.9	18.3	22.9
60°	1.0	4.8	8.7	15.1	22.4	23.0	17.0	11.4	7.2	2.9	7.2
62.5°	0.2	1.3	2.4	7.1	13.0	13.2	7.5	3.0	1.8	0.6	1.8
65°	0.0	0.0	0.0	0.3	0.7	0.7	0.3	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	5.4	5.6	5.6	5.0	5.0	4.8	4.0	3.3	1.9	0.8	1.7
90°	26.9	27.9	27.9	25.0	25.0	24.0	20.2	16.4	9.6	3.8	8.7
92.5°	33.1	32.5	32.5	31.2	29.6	27.1	22.5	21.7	23.5	14.6	24.8
95°	29.8	29.8	28.9	28.9	33.7	42.3	62.5	68.3	44.2	39.4	56.7
97.5°	68.3	72.7	81.0	93.5	114.8	122.5	113.3	85.4	80.8	77.9	103.7
100°	129.8	140.4	151.0	163.5	189.5	154.8	120.2	115.4	107.7	108.7	137.5
102.5°	226.8	227.4	231.8	236.6	186.4	164.9	159.5	153.1	140.8	141.0	170.6
105°	308.7	288.5	252.0	227.0	223.1	227.0	227.0	212.6	187.6	188.5	219.3
107.5°	298.0	295.7	297.2	298.2	304.3	305.7	297.4	271.4	245.6	240.3	271.4
110°	351.1	351.1	354.9	355.9	363.6	358.8	348.2	314.5	281.8	274.1	303.0

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	408.8	409.5	411.1	415.9	419.7	412.6	395.9	359.1	321.8	306.4	334.5
115°	502.1	501.1	501.1	504.9	503.0	495.3	470.3	428.0	379.9	358.8	382.8
117.5°	590.7	585.9	587.1	585.5	588.4	573.0	543.6	491.9	440.3	410.9	428.6
120°	649.2	644.4	646.3	646.3	645.4	626.1	590.5	539.6	481.9	446.3	457.8
122.5°	706.2	702.9	703.3	701.0	698.5	680.0	638.2	585.0	521.9	477.8	484.7
125°	786.8	788.7	782.9	782.9	774.2	756.0	711.7	655.0	586.7	531.9	528.0
127.5°	862.9	865.6	859.8	856.4	849.7	822.1	781.7	724.8	651.5	587.1	571.7
130°	913.7	915.6	913.7	904.1	893.5	867.5	827.1	773.3	695.4	627.1	600.2
132.5°	964.5	968.7	959.1	951.8	935.8	909.1	869.5	817.1	739.2	664.8	630.9
135°	1037.8	1034.9	1025.3	1013.7	997.4	971.4	934.9	880.0	806.0	723.3	680.0
137.5°	1092.0	1092.4	1083.0	1070.3	1053.6	1029.3	994.7	943.1	867.7	786.8	731.2
140°	1128.2	1126.3	1117.6	1104.1	1089.7	1064.7	1033.9	983.9	907.0	829.1	766.6
142.5°	1153.6	1155.5	1148.4	1137.2	1120.5	1098.6	1067.0	1017.0	949.3	868.3	802.7
145°	1196.5	1196.5	1189.7	1182.1	1166.7	1141.7	1117.6	1068.6	1004.1	927.2	855.0
147.5°	1231.5	1232.1	1227.8	1218.8	1203.8	1182.2	1158.0	1114.1	1054.3	983.2	913.1
150°	1252.3	1255.1	1249.4	1242.6	1229.2	1206.1	1184.9	1142.6	1085.9	1022.4	949.3
152.5°	1272.3	1275.9	1270.9	1262.6	1249.2	1226.1	1208.0	1166.5	1113.6	1054.7	984.7
155°	1301.3	1304.2	1300.4	1292.7	1277.3	1256.1	1239.8	1201.3	1154.2	1100.3	1037.8
157.5°	1322.9	1327.5	1321.9	1315.0	1298.4	1279.8	1264.4	1228.6	1186.5	1141.5	1085.7
160°	1335.9	1339.8	1335.0	1327.3	1310.0	1293.6	1278.2	1245.5	1208.0	1163.8	1115.7
162.5°	1344.4	1350.6	1345.0	1336.5	1318.4	1302.9	1289.8	1258.6	1224.2	1186.9	1142.6
165°	1354.2	1359.0	1354.2	1345.6	1327.3	1313.8	1303.2	1276.3	1246.5	1215.7	1178.2
167.5°	1354.2	1360.2	1355.6	1348.1	1328.8	1318.4	1310.4	1287.8	1263.0	1237.4	1209.6
170°	1350.4	1357.1	1353.3	1346.5	1327.3	1317.7	1311.9	1291.7	1271.5	1251.3	1227.3
172.5°	1343.4	1350.2	1345.6	1339.6	1320.4	1313.8	1310.4	1294.0	1276.9	1260.5	1241.1
175°	1323.4	1332.1	1329.2	1322.5	1308.0	1303.2	1304.2	1292.7	1281.1	1271.5	1259.0
177.5°	1296.7	1302.9	1299.8	1298.2	1286.7	1285.2	1290.5	1285.2	1279.8	1275.9	1270.5
180°	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6
2.5°	1928.3	1922.6	1915.7	1916.2	1924.1	1929.6	1927.9	1926.2
5°	1928.1	1922.1	1914.8	1916.9	1928.5	1936.9	1936.1	1935.2
7.5°	1928.3	1924.0	1918.9	1921.1	1930.6	1937.2	1935.0	1932.9
10°	1933.4	1926.9	1918.3	1919.0	1928.8	1935.6	1933.5	1931.4
12.5°	1941.1	1931.8	1918.4	1915.6	1923.4	1928.3	1924.4	1920.6
15°	1945.9	1932.7	1912.5	1903.1	1904.4	1904.0	1898.4	1892.9
17.5°	1930.3	1912.8	1886.0	1870.3	1865.6	1860.1	1852.2	1844.3
20°	1905.3	1886.1	1856.6	1837.8	1829.6	1821.8	1815.0	1808.1
22.5°	1863.2	1844.8	1816.6	1797.5	1787.3	1778.3	1772.8	1767.3
25°	1784.2	1765.4	1738.1	1720.5	1712.8	1706.3	1703.3	1700.3
27.5°	1672.2	1657.4	1636.8	1621.8	1612.2	1604.0	1600.2	1596.3
30°	1589.6	1578.0	1562.6	1549.8	1539.5	1530.0	1522.7	1515.4
32.5°	1495.9	1487.4	1476.4	1465.3	1454.0	1443.7	1436.4	1429.2
35°	1343.8	1338.0	1328.6	1318.3	1307.2	1297.2	1290.8	1284.4
37.5°	1161.1	1156.2	1149.1	1139.5	1127.6	1117.2	1111.8	1106.4
40°	1024.3	1018.3	1010.2	1001.8	993.3	984.8	976.7	968.6
42.5°	884.4	880.7	872.9	862.2	848.5	837.4	834.0	830.7
45°	639.4	653.4	659.4	654.7	639.3	616.7	572.6	528.6
47.5°	377.9	410.7	438.7	430.8	386.9	342.3	295.6	249.0
50°	216.3	260.3	309.5	301.4	235.9	182.8	167.0	151.2
52.5°	131.7	167.1	210.1	207.3	158.6	119.8	110.8	101.9
55°	60.8	76.4	96.1	95.6	75.1	59.1	56.5	53.9
57.5°	27.5	34.5	42.2	42.4	35.1	28.6	24.4	20.2
60°	11.4	17.0	23.0	22.4	15.1	8.7	4.8	1.0
62.5°	3.0	7.5	13.2	13.0	7.1	2.4	1.3	0.2
65°	0.0	0.3	0.7	0.7	0.3	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	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°	3.1	4.4	6.0	8.1	9.6	10.8	11.3	12.1
90°	15.4	22.1	29.8	40.4	48.1	53.9	56.7	60.6
92.5°	35.4	49.1	59.8	72.7	86.6	93.9	98.3	99.8
95°	81.8	99.1	121.2	140.4	157.7	169.3	176.0	174.1
97.5°	126.8	159.1	184.3	206.6	226.8	240.6	251.6	250.6
100°	164.5	191.4	225.1	252.0	272.2	287.6	300.1	303.0
102.5°	202.2	227.6	264.3	294.3	317.6	334.5	343.9	353.0
105°	254.9	290.5	318.4	354.9	378.9	401.1	407.8	417.4
107.5°	310.1	349.1	380.1	410.5	439.0	457.4	471.9	479.6
110°	346.2	383.8	423.2	452.0	479.0	498.2	512.6	520.3

TEST NUMBER: P709292

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	378.6	419.9	462.4	494.4	519.0	541.3	553.4	561.9
115°	426.1	471.3	513.6	555.0	579.0	596.3	606.9	613.6
117.5°	469.5	516.7	557.8	599.6	629.6	642.3	646.3	651.3
120°	497.2	544.4	584.8	624.2	658.8	672.3	681.0	686.7
122.5°	521.9	569.0	611.7	648.8	681.9	700.8	711.0	718.3
125°	559.8	604.0	648.3	687.7	714.6	734.8	748.3	755.0
127.5°	591.7	634.2	679.6	717.5	746.5	767.9	779.1	784.3
130°	615.6	651.1	697.3	736.7	766.6	788.7	798.3	801.2
132.5°	638.6	667.3	711.2	752.9	782.7	802.5	812.9	815.8
135°	674.2	690.6	729.0	769.4	800.2	820.4	830.0	835.8
137.5°	713.5	717.7	741.5	781.2	812.9	832.3	842.0	845.4
140°	739.6	737.7	753.1	785.8	817.5	837.7	847.3	849.3
142.5°	767.3	759.2	764.6	791.2	819.8	839.3	849.7	852.3
145°	813.7	796.4	789.6	803.1	824.3	840.6	852.2	854.1
147.5°	863.5	835.6	820.4	822.9	834.5	846.0	855.0	855.2
150°	897.4	865.6	843.5	840.6	844.5	852.2	858.9	859.8
152.5°	929.7	895.6	868.9	861.4	859.1	863.7	866.6	866.8
155°	983.9	947.4	912.7	896.4	889.7	887.7	886.8	883.9
157.5°	1035.3	996.4	958.1	940.4	929.7	923.7	919.3	916.2
160°	1067.6	1027.2	989.7	970.5	958.9	952.2	945.4	941.6
162.5°	1100.7	1062.6	1024.3	1002.0	990.5	983.0	975.5	969.3
165°	1144.5	1112.8	1074.3	1050.3	1035.9	1031.0	1024.3	1019.5
167.5°	1183.0	1158.4	1124.0	1101.3	1090.3	1081.4	1074.7	1066.1
170°	1206.1	1186.9	1153.2	1132.0	1127.2	1117.6	1110.9	1102.2
172.5°	1224.6	1209.2	1182.4	1165.1	1161.1	1155.3	1150.1	1143.0
175°	1249.4	1241.7	1221.5	1209.0	1209.0	1207.1	1206.1	1197.4
177.5°	1266.7	1262.8	1251.3	1245.1	1250.5	1252.1	1248.2	1241.3
180°	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4

(END OF REPORT)