

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: P709315

Luminaire Tested: DL2W-BB-M-150U-050D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

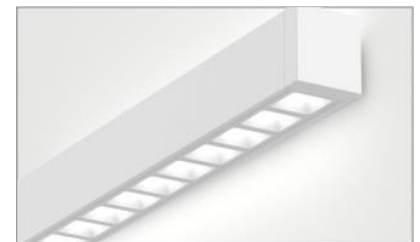
Test Information

Test Method: LM-79-2019
Report Number: P709315
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-6, G3-2104-222-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-BB-M-150U-050D-940-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: 8284.1 lumens
Efficiency: N/A
Efficacy: 113.2 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: Semi-Indirect

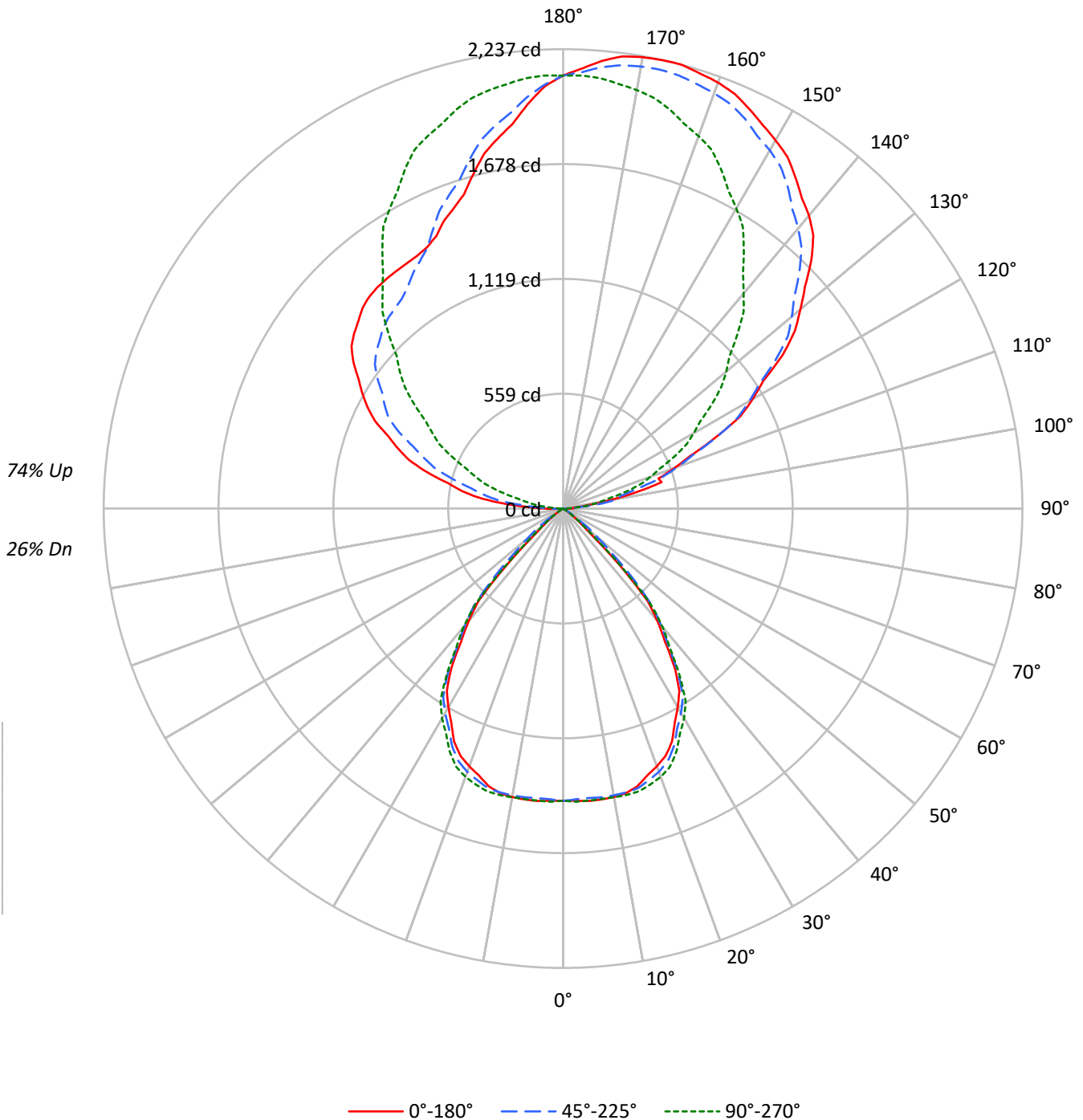
Input Watts (W): 73.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26			26
1	93	90	86	83	83	80	77	75	63	61	59	46	45	44	31	31	30	24			24
2	86	79	74	70	77	71	67	63	56	53	51	42	40	39	29	28	27	22			22
3	79	71	64	59	70	64	58	54	50	47	44	38	36	34	27	25	25	20			20
4	73	63	56	51	65	57	51	47	45	41	38	35	32	30	25	23	22	18			18
5	67	57	50	44	60	51	45	41	41	37	34	32	29	27	23	21	20	16			16
6	62	51	44	39	55	46	40	36	37	33	30	29	26	24	21	19	18	15			15
7	57	46	39	34	51	42	36	32	34	30	26	27	24	21	19	18	16	14			14
8	53	42	35	30	48	38	32	28	31	27	24	24	21	19	18	16	15	13			13
9	50	39	32	27	45	35	29	25	29	24	21	23	20	18	17	15	14	12			12
10	47	35	29	24	42	32	27	23	26	22	19	21	18	16	16	14	13	11			11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	22976	22976	22976	22976	22976
5°	23167	22934	23131	22934	23167
10°	23382	23244	23399	23244	23382
15°	23397	23564	23821	23564	23397
20°	22941	23439	23886	23439	22941
25°	22335	22752	23259	22752	22335
30°	20810	21414	21973	21414	20810
35°	18705	19250	19478	19250	18705
40°	15051	15666	15900	15666	15051
45°	8720	10992	9373	10992	8720
50°	2816	5669	3162	5669	2816
55°	1132	1996	1072	1996	1132
60°	36	562	103	562	36
65°	0	31	0	31	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: 11038 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	1.6
10°-20°	398.0	4.8
20°-30°	585.7	7.1
30°-40°	598.4	7.2
40°-50°	344.0	4.2
50°-60°	60.1	0.7
60°-70°	2.2	0.0
70°-80°	0.0	0.0
80°-90°	11.2	0.1
90°-100°	166.8	2.0
100°-110°	487.2	5.9
110°-120°	797.3	9.6
120°-130°	1012.7	12.2
130°-140°	1084.1	13.1
140°-150°	1012.5	12.2
150°-160°	833.2	10.1
160°-170°	558.9	6.7
170°-180°	198.4	2.4
0°-30°	1119.7	13.5
0°-40°	1718.1	20.7
0°-60°	2122.2	25.6
0°-90°	2135.6	25.8
90°-120°	1451.2	17.5
90°-150°	4560.5	55.1
90°-180°	6151.0	74.3
0°-180°	8284.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1423	1423	1423	1423	1423	
5°	1429	1415	1427	1415	1429	136
15°	1400	1410	1425	1410	1400	393
25°	1254	1277	1306	1277	1254	571
35°	949	977	988	977	949	581
45°	382	481	410	481	382	299
55°	40	71	38	71	40	41
65°	0	1	0	1	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	4
90°	44	41	7	57	93	21
95°	49	66	68	216	299	82
105°	497	371	314	555	686	460
115°	820	826	596	882	1010	812
125°	1306	1264	884	1103	1247	1156
135°	1710	1628	1200	1240	1381	1312
145°	1972	1909	1534	1318	1413	1235
155°	2146	2095	1822	1499	1463	991
165°	2237	2183	2011	1759	1687	631
175°	2189	2158	2103	2011	1976	210
180°	2108	2108	2108	2108	2108	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0
2.5°	1423.9	1425.4	1426.9	1423.0	1417.4	1417.0	1421.9	1425.9	1427.4	1428.9	1427.4
5°	1429.4	1430.3	1431.2	1424.8	1415.8	1414.2	1419.8	1424.4	1425.8	1427.2	1425.8
7.5°	1428.7	1430.6	1432.5	1427.1	1419.3	1417.3	1421.0	1424.1	1425.3	1426.4	1425.3
10°	1426.2	1428.1	1429.9	1425.1	1418.1	1417.4	1423.0	1427.2	1427.2	1427.2	1427.2
12.5°	1418.6	1421.2	1423.8	1420.3	1414.8	1416.7	1426.1	1432.7	1430.8	1428.9	1430.8
15°	1399.7	1403.0	1406.3	1406.8	1406.3	1413.1	1427.2	1436.4	1430.8	1425.1	1430.8
17.5°	1362.3	1367.3	1372.2	1376.8	1381.2	1393.1	1412.4	1424.9	1417.3	1409.7	1417.3
20°	1335.2	1339.4	1343.7	1350.0	1357.1	1371.2	1392.3	1406.2	1398.2	1390.2	1398.2
22.5°	1303.9	1308.5	1313.1	1318.7	1324.6	1338.7	1361.0	1375.8	1368.2	1360.6	1368.2
25°	1253.7	1256.5	1259.4	1264.7	1270.8	1283.5	1302.7	1315.9	1310.7	1305.6	1310.7
27.5°	1177.1	1181.8	1186.5	1192.4	1198.7	1210.3	1227.0	1238.9	1236.3	1233.6	1236.3
30°	1116.2	1122.8	1129.4	1136.3	1143.3	1153.9	1168.0	1178.6	1178.6	1178.6	1178.6
32.5°	1053.6	1059.8	1066.0	1073.7	1081.8	1090.5	1099.8	1107.0	1108.5	1110.1	1108.5
35°	949.0	954.2	959.4	966.0	973.0	980.3	987.8	992.9	990.5	988.2	990.5
37.5°	814.9	818.4	822.0	829.0	837.1	845.0	852.7	857.9	855.6	853.4	855.6
40°	714.1	718.9	723.6	731.1	739.5	747.1	753.6	758.1	756.2	754.4	756.2
42.5°	606.7	612.9	619.1	627.5	636.7	644.5	650.7	652.8	642.6	632.5	642.6
45°	381.9	417.2	452.5	469.0	479.4	483.4	481.0	471.6	441.1	410.5	441.1
47.5°	179.9	214.8	249.6	284.2	318.8	324.9	302.6	277.9	245.9	213.9	245.9
50°	112.1	124.8	137.5	175.6	222.2	229.2	196.8	167.3	146.6	125.9	146.6
52.5°	75.8	82.1	88.4	117.5	154.3	156.8	125.1	99.1	90.1	81.0	90.1
55°	40.2	42.1	44.0	55.7	70.8	71.0	56.4	44.7	41.4	38.1	41.4
57.5°	15.4	18.2	20.9	26.2	32.3	32.2	26.0	20.6	17.4	14.2	17.4
60°	1.1	3.4	5.8	10.9	17.0	17.8	13.0	8.8	6.0	3.2	6.0
62.5°	0.2	0.7	1.2	4.7	9.3	9.7	5.7	2.5	1.6	0.6	1.6
65°	0.0	0.0	0.0	0.4	0.8	0.8	0.4	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°	8.9	9.1	8.9	8.5	8.2	8.0	6.8	5.1	3.2	1.5	3.2
90°	44.4	45.4	44.4	42.3	41.2	40.2	33.8	25.4	15.9	7.4	15.9
92.5°	54.5	53.9	53.7	51.6	49.7	44.4	36.4	36.4	37.0	23.5	39.5
95°	48.6	48.6	47.6	47.6	56.0	75.0	103.6	102.5	74.0	67.6	95.1
97.5°	112.9	113.1	127.7	158.3	184.1	197.6	184.3	138.4	135.9	130.6	170.6
100°	226.2	223.0	245.2	271.6	299.1	244.1	194.5	193.4	184.9	175.4	227.2
102.5°	359.7	372.6	381.3	381.5	303.3	271.2	261.2	252.6	234.8	228.7	279.6
105°	496.7	475.6	410.0	372.0	366.7	375.2	376.2	344.5	317.0	313.9	364.6
107.5°	487.4	480.0	484.9	494.4	502.8	503.7	490.6	444.7	402.9	396.7	441.1
110°	577.0	573.9	581.3	586.5	595.0	590.8	571.7	520.0	467.1	453.4	497.8

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	670.0	676.2	675.9	685.5	688.0	682.9	652.1	593.5	532.2	510.9	553.6
115°	820.1	818.0	825.4	827.5	832.8	819.0	772.5	704.9	627.8	596.0	634.1
117.5°	972.5	966.1	966.1	978.0	974.0	945.2	897.9	817.6	730.9	678.5	707.4
120°	1066.3	1064.2	1064.2	1068.4	1065.3	1031.5	980.7	892.0	796.8	733.4	755.6
122.5°	1155.1	1163.1	1156.4	1158.9	1152.4	1119.4	1056.0	966.4	862.8	793.5	802.1
125°	1306.2	1297.8	1292.5	1290.4	1283.0	1246.0	1177.3	1080.1	968.0	883.5	871.9
127.5°	1423.5	1426.7	1420.6	1413.0	1398.6	1361.8	1291.6	1193.6	1076.7	970.2	944.6
130°	1508.1	1511.3	1506.0	1497.5	1476.4	1432.0	1368.6	1271.4	1151.9	1037.8	994.5
132.5°	1597.7	1595.0	1588.0	1569.4	1547.4	1505.5	1437.9	1346.6	1219.6	1098.7	1045.2
135°	1709.9	1711.0	1695.1	1676.1	1650.8	1604.3	1548.2	1458.4	1331.6	1200.5	1123.4
137.5°	1804.0	1802.3	1786.7	1770.8	1739.3	1698.9	1645.0	1559.9	1436.0	1301.6	1205.0
140°	1863.2	1863.2	1848.4	1828.3	1801.9	1760.7	1706.8	1623.3	1507.0	1367.5	1265.0
142.5°	1908.8	1909.7	1894.9	1879.9	1853.4	1817.3	1764.3	1684.1	1567.9	1439.4	1324.2
145°	1972.0	1976.3	1964.6	1951.9	1926.6	1891.7	1849.4	1767.0	1663.4	1534.5	1418.3
147.5°	2032.3	2036.5	2029.5	2016.4	1991.0	1954.7	1916.2	1841.4	1743.5	1628.6	1510.2
150°	2070.3	2074.5	2065.0	2054.5	2033.3	1995.3	1959.3	1885.4	1793.4	1687.7	1573.6
152.5°	2105.8	2110.0	2102.2	2090.0	2065.4	2028.2	1997.4	1925.9	1840.8	1744.4	1633.6
155°	2146.4	2155.9	2148.5	2136.9	2112.6	2077.7	2049.2	1983.6	1906.5	1822.0	1719.4
157.5°	2185.7	2196.1	2185.7	2174.7	2146.2	2116.8	2090.2	2029.9	1963.4	1890.9	1798.1
160°	2207.7	2217.2	2207.7	2195.0	2166.5	2137.9	2114.7	2058.7	1996.3	1929.8	1850.5
162.5°	2221.2	2231.6	2223.8	2209.4	2180.0	2154.0	2132.4	2081.5	2024.2	1963.6	1891.1
165°	2237.3	2248.9	2239.4	2222.5	2194.0	2172.8	2154.9	2109.4	2060.8	2011.1	1953.0
167.5°	2237.1	2250.4	2240.7	2229.5	2197.1	2180.9	2165.4	2128.4	2087.6	2048.1	2001.6
170°	2232.0	2243.6	2237.3	2227.8	2192.9	2179.2	2169.6	2136.9	2102.0	2069.3	2031.2
172.5°	2221.0	2231.8	2224.6	2215.1	2182.8	2171.6	2167.1	2140.3	2110.5	2085.3	2053.2
175°	2188.7	2203.5	2198.2	2189.7	2161.2	2154.9	2155.9	2137.9	2118.9	2103.1	2084.0
177.5°	2145.6	2154.9	2154.0	2146.4	2127.0	2128.6	2135.4	2124.4	2116.8	2110.9	2101.6
180°	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0
2.5°	1425.9	1421.9	1417.0	1417.4	1423.0	1426.9	1425.4	1423.9
5°	1424.4	1419.8	1414.2	1415.8	1424.8	1431.2	1430.3	1429.4
7.5°	1424.1	1421.0	1417.3	1419.3	1427.1	1432.5	1430.6	1428.7
10°	1427.2	1423.0	1417.4	1418.1	1425.1	1429.9	1428.1	1426.2
12.5°	1432.7	1426.1	1416.7	1414.8	1420.3	1423.8	1421.2	1418.6
15°	1436.4	1427.2	1413.1	1406.3	1406.8	1406.3	1403.0	1399.7
17.5°	1424.9	1412.4	1393.1	1381.2	1376.8	1372.2	1367.3	1362.3
20°	1406.2	1392.3	1371.2	1357.1	1350.0	1343.7	1339.4	1335.2
22.5°	1375.8	1361.0	1338.7	1324.6	1318.7	1313.1	1308.5	1303.9
25°	1315.9	1302.7	1283.5	1270.8	1264.7	1259.4	1256.5	1253.7
27.5°	1238.9	1227.0	1210.3	1198.7	1192.4	1186.5	1181.8	1177.1
30°	1178.6	1168.0	1153.9	1143.3	1136.3	1129.4	1122.8	1116.2
32.5°	1107.0	1099.8	1090.5	1081.8	1073.7	1066.0	1059.8	1053.6
35°	992.9	987.8	980.3	973.0	966.0	959.4	954.2	949.0
37.5°	857.9	852.7	845.0	837.1	829.0	822.0	818.4	814.9
40°	758.1	753.6	747.1	739.5	731.1	723.6	718.9	714.1
42.5°	652.8	650.7	644.5	636.7	627.5	619.1	612.9	606.7
45°	471.6	481.0	483.4	479.4	469.0	452.5	417.2	381.9
47.5°	277.9	302.6	324.9	318.8	284.2	249.6	214.8	179.9
50°	167.3	196.8	229.2	222.2	175.6	137.5	124.8	112.1
52.5°	99.1	125.1	156.8	154.3	117.5	88.4	82.1	75.8
55°	44.7	56.4	71.0	70.8	55.7	44.0	42.1	40.2
57.5°	20.6	26.0	32.2	32.3	26.2	20.9	18.2	15.4
60°	8.8	13.0	17.8	17.0	10.9	5.8	3.4	1.1
62.5°	2.5	5.7	9.7	9.3	4.7	1.2	0.7	0.2
65°	0.0	0.4	0.8	0.8	0.4	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°	5.1	7.2	10.1	12.5	15.4	18.0	19.0	18.6
90°	25.4	35.9	50.7	62.4	77.1	89.8	95.1	93.0
92.5°	57.5	79.1	101.5	122.4	144.8	157.5	162.8	164.0
95°	133.2	163.8	199.7	231.4	258.9	279.0	284.3	299.1
97.5°	209.0	262.7	305.4	342.0	376.4	398.8	411.7	416.8
100°	267.4	320.2	373.1	412.2	453.4	472.4	490.4	503.0
102.5°	329.9	376.9	435.6	484.9	525.2	551.9	563.1	574.1
105°	423.8	477.7	528.4	582.3	624.6	658.4	681.6	685.9
107.5°	511.5	575.1	627.3	681.6	723.3	754.4	777.6	785.6
110°	570.7	635.1	697.5	740.8	788.4	821.1	840.2	855.0

TEST NUMBER: P709315

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	624.8	693.5	761.8	816.9	859.4	892.2	913.7	921.8
115°	707.0	775.7	847.6	916.3	961.7	985.0	1000.8	1010.3
117.5°	779.9	854.8	922.4	992.1	1039.1	1063.4	1068.0	1075.6
120°	822.2	900.4	972.3	1033.6	1086.4	1114.9	1125.5	1129.7
122.5°	866.2	941.0	1011.2	1074.2	1125.3	1159.8	1177.1	1182.2
125°	926.8	1000.8	1070.6	1136.1	1183.6	1218.5	1237.5	1247.0
127.5°	979.9	1049.4	1122.8	1187.4	1234.2	1268.0	1288.5	1298.6
130°	1018.8	1079.0	1154.0	1219.6	1267.1	1300.9	1318.9	1327.4
132.5°	1056.0	1104.4	1178.6	1244.1	1294.2	1327.2	1345.1	1351.9
135°	1114.9	1143.5	1204.8	1274.5	1325.3	1357.0	1374.9	1381.3
137.5°	1178.8	1185.3	1227.2	1292.5	1344.5	1377.2	1392.9	1398.2
140°	1222.7	1217.5	1244.9	1300.9	1353.8	1386.5	1401.3	1406.6
142.5°	1270.9	1255.5	1267.8	1310.2	1357.2	1389.9	1405.6	1410.9
145°	1344.3	1315.7	1306.2	1329.5	1364.4	1391.8	1408.7	1413.0
147.5°	1428.0	1386.3	1356.1	1362.9	1380.2	1399.9	1413.8	1416.3
150°	1483.8	1432.0	1395.0	1390.8	1397.1	1410.9	1421.4	1421.4
152.5°	1539.6	1484.4	1437.3	1424.6	1422.5	1427.8	1434.9	1434.1
155°	1628.6	1564.1	1510.2	1486.9	1473.2	1469.0	1466.9	1462.6
157.5°	1714.4	1647.6	1587.1	1555.4	1538.1	1527.5	1522.5	1515.9
160°	1774.4	1702.5	1641.2	1605.3	1590.5	1571.5	1567.3	1555.6
162.5°	1821.7	1760.9	1695.3	1659.4	1639.5	1623.9	1618.0	1604.7
165°	1894.9	1842.0	1776.5	1741.6	1717.3	1703.6	1692.0	1686.7
167.5°	1959.8	1914.5	1857.7	1822.0	1809.5	1788.8	1779.0	1771.2
170°	1995.3	1959.3	1911.8	1876.9	1865.3	1850.5	1839.9	1830.4
172.5°	2025.7	2000.8	1956.6	1932.7	1921.9	1908.8	1900.8	1887.9
175°	2066.1	2050.2	2021.7	2000.6	2005.8	1993.2	1991.0	1976.3
177.5°	2094.8	2089.8	2070.3	2061.9	2072.0	2067.8	2066.9	2057.6
180°	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4

(END OF REPORT)