

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: P709303

Luminaire Tested: DL2W-BB-M-125U-050D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709303
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-5, 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-125U-050D-940-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7318.0 lumens
Efficiency: N/A
Efficacy: 117.8 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: Semi-Indirect

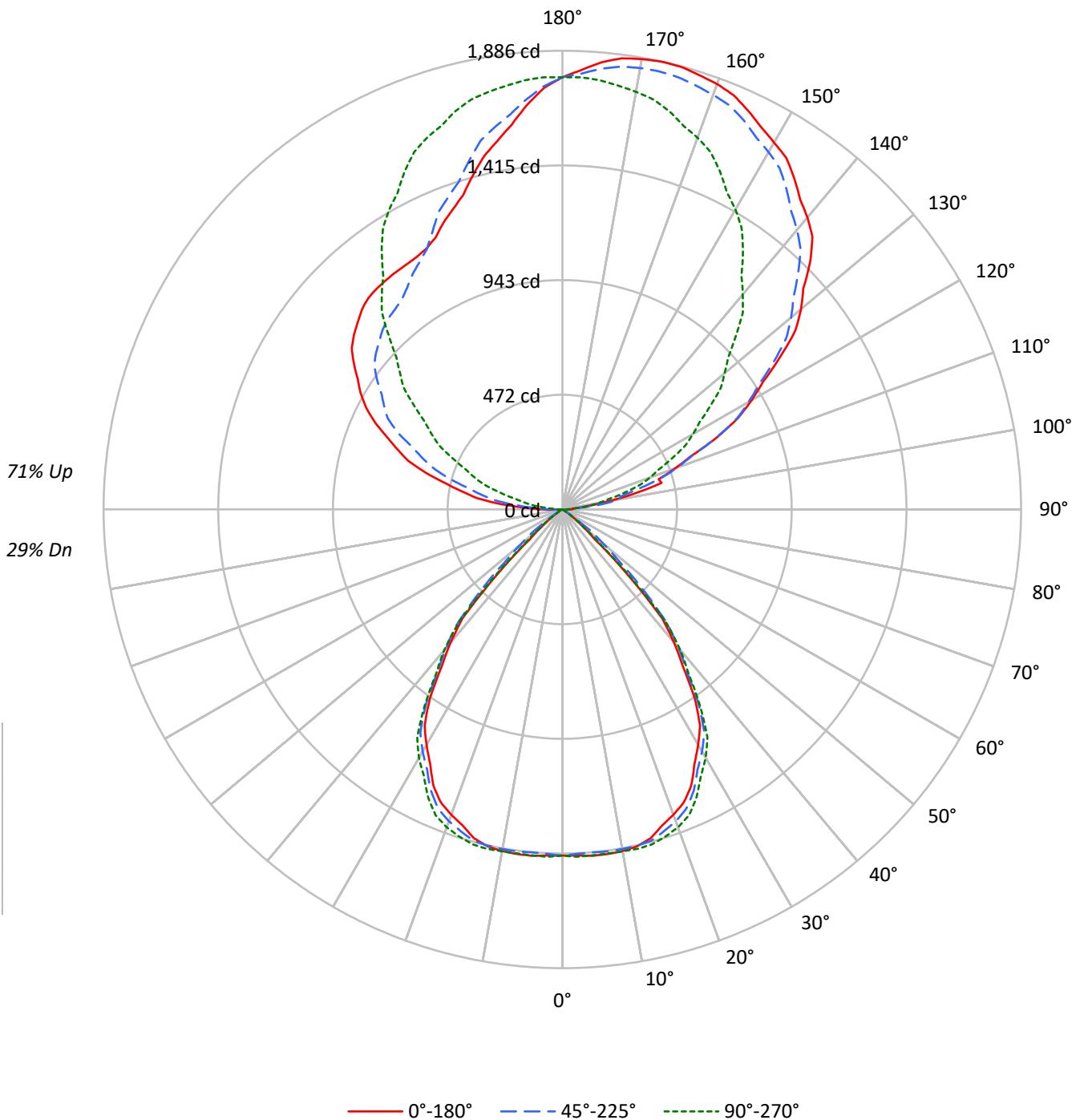
Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29
1	94	90	87	84	84	81	79	76	64	63	61	49	48	47	34	34	33	27
2	87	80	75	71	78	73	68	64	58	55	52	44	42	41	32	31	30	24
3	80	72	65	60	72	65	60	55	52	48	45	40	38	36	29	28	27	22
4	74	64	57	52	66	58	52	48	47	43	40	37	34	32	27	26	24	20
5	68	58	51	45	61	53	46	42	43	38	35	33	31	28	25	23	22	18
6	63	52	45	40	57	48	41	37	39	34	31	31	28	25	23	21	20	17
7	58	47	40	35	53	43	37	33	36	31	28	28	25	23	21	20	18	15
8	54	43	36	31	49	40	33	29	33	28	25	26	23	21	20	18	17	14
9	51	40	33	28	46	36	30	26	30	26	23	24	21	19	18	17	15	13
10	47	36	30	25	43	33	28	24	28	23	20	22	19	17	17	15	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	22977	22977	22977	22977	22977
5°	23169	22935	23133	22935	23169
10°	23384	23246	23400	23246	23384
15°	23398	23565	23823	23565	23398
20°	22943	23441	23888	23441	22943
25°	22336	22754	23261	22754	22336
30°	20812	21416	21975	21416	20812
35°	18707	19252	19478	19252	18707
40°	15053	15668	15900	15668	15053
45°	8722	10992	9373	10992	8722
50°	2818	5669	3162	5669	2818
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	1.9
10°-20°	398.1	5.4
20°-30°	585.8	8.0
30°-40°	598.4	8.2
40°-50°	344.1	4.7
50°-60°	60.1	0.8
60°-70°	2.2	0.0
70°-80°	0.0	0.0
80°-90°	9.5	0.1
90°-100°	141.0	1.9
100°-110°	411.6	5.6
110°-120°	672.3	9.2
120°-130°	853.9	11.7
130°-140°	913.7	12.5
140°-150°	853.2	11.7
150°-160°	702.2	9.6
160°-170°	471.0	6.4
170°-180°	167.2	2.3
0°-30°	1119.8	15.3
0°-40°	1718.2	23.5
0°-60°	2122.4	29.0
0°-90°	2134.0	29.2
90°-120°	1224.9	16.7
90°-150°	3845.7	52.6
90°-180°	5186.0	70.9
0°-180°	7318.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1423	1423	1423	1423	1423	
5°	1430	1415	1427	1415	1430	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	3
90°	38	34	6	49	84	18
95°	41	52	55	182	252	69
105°	423	313	262	471	579	392
115°	702	696	498	745	851	688
125°	1093	1063	743	929	1046	976
135°	1442	1370	1008	1045	1165	1106
145°	1662	1607	1295	1112	1192	1040
155°	1808	1765	1533	1261	1233	834
165°	1884	1840	1696	1483	1421	532
175°	1845	1818	1771	1692	1669	177
180°	1776	1776	1776	1776	1776	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1423.1	1423.1	1423.1	1423.1	1423.1	1423.1	1423.1	1423.1	1423.1	1423.1	1423.1
2.5°	1424.0	1425.5	1427.0	1423.1	1417.5	1417.1	1422.0	1426.0	1427.5	1429.0	1427.5
5°	1429.5	1430.4	1431.3	1424.9	1415.9	1414.3	1419.9	1424.5	1425.9	1427.3	1425.9
7.5°	1428.8	1430.7	1432.6	1427.2	1419.4	1417.4	1421.1	1424.2	1425.4	1426.5	1425.4
10°	1426.3	1428.2	1430.0	1425.2	1418.2	1417.5	1423.1	1427.3	1427.3	1427.3	1427.3
12.5°	1418.7	1421.3	1423.9	1420.4	1414.9	1416.8	1426.2	1432.8	1430.9	1429.0	1430.9
15°	1399.8	1403.1	1406.4	1406.9	1406.4	1413.2	1427.3	1436.5	1430.9	1425.2	1430.9
17.5°	1362.4	1367.4	1372.3	1376.9	1381.3	1393.2	1412.5	1425.0	1417.4	1409.8	1417.4
20°	1335.3	1339.5	1343.8	1350.1	1357.2	1371.3	1392.4	1406.3	1398.3	1390.3	1398.3
22.5°	1304.0	1308.6	1313.2	1318.8	1324.7	1338.8	1361.1	1375.9	1368.3	1360.7	1368.3
25°	1253.8	1256.6	1259.5	1264.7	1270.9	1283.6	1302.8	1316.0	1310.8	1305.7	1310.8
27.5°	1177.2	1181.9	1186.6	1192.5	1198.8	1210.3	1227.1	1239.0	1236.3	1233.7	1236.3
30°	1116.3	1122.8	1129.4	1136.4	1143.4	1154.0	1168.1	1178.7	1178.7	1178.7	1178.7
32.5°	1053.6	1059.8	1066.0	1073.7	1081.9	1090.6	1099.8	1107.1	1108.6	1110.1	1108.6
35°	949.1	954.3	959.4	966.0	973.1	980.4	987.9	992.9	990.6	988.2	990.6
37.5°	814.9	818.5	822.1	829.0	837.1	845.0	852.7	858.0	855.7	853.4	855.7
40°	714.2	718.9	723.6	731.1	739.6	747.1	753.7	758.2	756.3	754.4	756.3
42.5°	606.7	612.9	619.1	627.6	636.8	644.5	650.7	652.8	642.7	632.5	642.7
45°	382.0	417.2	452.5	469.1	479.4	483.4	481.1	471.7	441.1	410.5	441.1
47.5°	179.9	214.8	249.7	284.3	318.8	324.9	302.6	277.9	245.9	213.9	245.9
50°	112.2	124.9	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°	7.6	7.6	7.4	7.4	6.8	6.8	6.1	4.4	2.7	1.3	2.5
90°	38.0	38.0	37.0	37.0	33.8	33.8	30.6	22.2	13.7	6.3	12.7
92.5°	45.7	45.7	44.6	43.8	41.4	38.0	31.5	31.5	29.8	19.0	34.7
95°	41.2	41.2	40.2	41.2	45.4	58.1	84.5	93.0	63.4	55.0	79.3
97.5°	96.4	99.3	109.5	128.1	161.3	167.2	158.9	118.4	114.8	110.5	145.0
100°	190.2	196.6	209.3	226.2	265.3	210.3	164.9	164.9	155.4	151.1	188.1
102.5°	306.1	309.0	322.5	324.2	259.3	229.8	218.1	213.9	195.9	193.4	237.2
105°	422.7	400.5	351.9	316.0	312.8	312.8	311.8	292.7	267.4	262.1	307.5
107.5°	414.7	409.0	411.7	415.5	420.4	424.2	413.2	381.7	340.1	333.7	377.1
110°	492.5	485.1	490.4	496.7	499.9	502.0	480.9	437.5	394.2	383.6	422.7

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	572.0	568.8	569.0	577.9	577.7	577.2	550.2	497.6	445.8	428.4	465.8
115°	701.7	696.4	688.0	698.6	700.7	692.2	655.2	593.9	529.5	497.8	533.7
117.5°	813.8	812.1	814.6	818.8	815.9	802.8	755.2	685.9	614.4	571.3	596.7
120°	898.3	894.1	898.3	902.5	896.2	872.9	825.4	753.5	671.1	620.4	637.3
122.5°	979.5	978.6	977.8	972.7	973.1	946.5	891.3	816.1	731.1	669.4	675.3
125°	1092.8	1097.0	1091.7	1085.4	1078.0	1048.4	990.2	913.1	816.9	742.9	735.5
127.5°	1207.3	1207.9	1197.6	1191.5	1178.8	1144.5	1085.8	1009.9	905.9	821.8	795.4
130°	1280.9	1279.8	1270.3	1260.8	1243.9	1212.2	1150.9	1071.6	970.2	870.8	835.9
132.5°	1343.4	1344.9	1333.7	1325.9	1304.8	1271.4	1215.1	1136.7	1028.5	924.9	879.9
135°	1441.5	1443.6	1429.9	1411.9	1387.6	1352.7	1305.2	1230.1	1122.3	1008.2	949.0
137.5°	1521.6	1520.1	1506.6	1490.3	1468.8	1431.4	1387.6	1313.4	1212.2	1098.2	1015.2
140°	1567.3	1568.3	1555.6	1537.7	1518.7	1483.8	1438.3	1367.5	1267.1	1154.0	1068.4
142.5°	1606.2	1608.1	1598.8	1583.3	1560.9	1530.3	1489.9	1420.8	1322.1	1209.8	1117.5
145°	1662.4	1666.6	1658.2	1644.4	1623.3	1590.5	1556.7	1489.1	1398.2	1294.6	1194.2
147.5°	1713.7	1716.1	1709.3	1700.0	1678.4	1647.2	1615.9	1553.5	1468.1	1372.0	1270.1
150°	1741.6	1749.0	1740.6	1732.1	1713.1	1679.3	1653.9	1591.6	1515.5	1423.5	1324.2
152.5°	1771.2	1777.8	1769.3	1760.0	1741.0	1708.9	1685.2	1623.7	1553.5	1467.5	1375.8
155°	1808.2	1816.7	1810.3	1799.8	1780.7	1750.1	1726.8	1670.8	1607.4	1533.4	1447.8
157.5°	1842.5	1848.6	1843.1	1833.4	1809.9	1785.0	1760.7	1712.5	1655.4	1590.9	1516.3
160°	1861.1	1866.3	1860.0	1849.4	1825.1	1801.9	1781.8	1735.3	1682.5	1626.4	1557.8
162.5°	1872.1	1879.9	1873.5	1862.1	1837.8	1817.1	1797.9	1754.7	1707.0	1654.3	1595.0
165°	1884.3	1893.8	1886.4	1874.8	1848.4	1831.5	1816.7	1778.6	1737.4	1696.2	1645.5
167.5°	1886.0	1894.7	1887.9	1878.2	1852.0	1837.6	1826.0	1794.3	1759.4	1726.8	1684.8
170°	1880.1	1889.6	1885.4	1874.8	1849.4	1836.8	1829.4	1801.9	1771.2	1743.8	1711.0
172.5°	1870.8	1879.4	1874.4	1866.3	1841.0	1831.7	1826.8	1803.6	1778.8	1757.3	1732.1
175°	1845.2	1854.7	1849.4	1844.2	1820.9	1815.6	1816.7	1802.9	1786.0	1771.2	1755.4
177.5°	1808.6	1815.4	1811.2	1808.6	1794.3	1793.4	1798.5	1791.7	1784.1	1778.2	1771.4
180°	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1423.1	1423.1	1423.1	1423.1	1423.1	1423.1	1423.1	1423.1
2.5°	1426.0	1422.0	1417.1	1417.5	1423.1	1427.0	1425.5	1424.0
5°	1424.5	1419.9	1414.3	1415.9	1424.9	1431.3	1430.4	1429.5
7.5°	1424.2	1421.1	1417.4	1419.4	1427.2	1432.6	1430.7	1428.8
10°	1427.3	1423.1	1417.5	1418.2	1425.2	1430.0	1428.2	1426.3
12.5°	1432.8	1426.2	1416.8	1414.9	1420.4	1423.9	1421.3	1418.7
15°	1436.5	1427.3	1413.2	1406.4	1406.9	1406.4	1403.1	1399.8
17.5°	1425.0	1412.5	1393.2	1381.3	1376.9	1372.3	1367.4	1362.4
20°	1406.3	1392.4	1371.3	1357.2	1350.1	1343.8	1339.5	1335.3
22.5°	1375.9	1361.1	1338.8	1324.7	1318.8	1313.2	1308.6	1304.0
25°	1316.0	1302.8	1283.6	1270.9	1264.7	1259.5	1256.6	1253.8
27.5°	1239.0	1227.1	1210.3	1198.8	1192.5	1186.6	1181.9	1177.2
30°	1178.7	1168.1	1154.0	1143.4	1136.4	1129.4	1122.8	1116.3
32.5°	1107.1	1099.8	1090.6	1081.9	1073.7	1066.0	1059.8	1053.6
35°	992.9	987.9	980.4	973.1	966.0	959.4	954.3	949.1
37.5°	858.0	852.7	845.0	837.1	829.0	822.1	818.5	814.9
40°	758.2	753.7	747.1	739.6	731.1	723.6	718.9	714.2
42.5°	652.8	650.7	644.5	636.8	627.6	619.1	612.9	606.7
45°	471.7	481.1	483.4	479.4	469.1	452.5	417.2	382.0
47.5°	277.9	302.6	324.9	318.8	284.3	249.7	214.8	179.9
50°	167.3	196.8	229.2	222.2	175.6	137.5	124.9	112.2
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°	4.0	6.1	8.5	11.0	13.3	14.6	16.1	16.9
90°	20.1	30.6	42.3	55.0	66.6	72.9	80.3	84.5
92.5°	48.8	65.3	85.4	104.8	121.5	131.3	137.8	139.5
95°	115.2	138.4	165.9	197.6	215.6	234.6	248.4	251.5
97.5°	177.8	219.4	257.7	286.0	314.3	335.0	348.1	352.3
100°	225.1	268.4	316.0	347.7	379.4	398.4	417.4	413.2
102.5°	279.2	320.0	368.4	406.0	443.7	466.9	480.9	487.6
105°	357.2	404.8	446.0	495.6	527.4	554.8	574.9	579.1
107.5°	430.3	484.9	526.3	573.4	611.3	635.6	656.3	663.3
110°	481.9	539.0	589.7	626.7	663.7	692.2	711.2	720.8

TEST NUMBER: P709303

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	528.4	586.3	643.8	685.9	725.4	751.4	770.4	780.8
115°	595.0	657.3	713.4	775.7	809.5	831.7	845.5	850.7
117.5°	656.1	719.5	779.9	837.4	878.2	893.0	903.8	910.1
120°	693.3	756.7	818.0	872.9	916.3	939.5	951.1	957.5
122.5°	727.9	792.2	852.6	907.6	950.9	977.6	992.6	997.2
125°	779.9	844.4	904.6	954.3	997.6	1027.2	1044.1	1046.3
127.5°	827.5	883.3	948.8	1001.0	1041.8	1069.3	1084.7	1091.1
130°	857.1	907.8	973.3	1027.2	1066.3	1098.0	1111.8	1118.1
132.5°	887.5	930.6	991.9	1048.4	1090.8	1119.2	1133.8	1140.1
135°	937.4	962.8	1016.7	1073.7	1116.0	1144.5	1159.3	1164.6
137.5°	993.2	999.3	1034.8	1088.3	1133.3	1161.0	1173.1	1179.8
140°	1030.4	1027.2	1048.4	1095.9	1139.3	1167.8	1181.5	1185.8
142.5°	1070.1	1057.7	1067.8	1103.5	1143.5	1170.3	1184.9	1189.1
145°	1132.9	1107.5	1102.3	1122.3	1148.8	1174.1	1187.9	1192.1
147.5°	1201.6	1167.6	1143.1	1149.4	1162.9	1179.6	1192.5	1193.4
150°	1248.1	1209.0	1175.2	1173.1	1177.3	1188.9	1198.4	1198.4
152.5°	1298.0	1249.6	1210.7	1201.8	1198.4	1204.1	1210.3	1209.4
155°	1372.8	1320.0	1271.4	1251.3	1242.8	1236.5	1236.5	1233.3
157.5°	1445.1	1389.1	1338.6	1313.8	1297.4	1288.3	1282.8	1276.4
160°	1493.3	1437.3	1379.2	1357.0	1337.9	1326.3	1320.0	1313.6
162.5°	1536.4	1484.6	1429.9	1397.5	1381.1	1370.3	1363.1	1355.1
165°	1596.9	1551.4	1499.6	1465.8	1448.9	1435.2	1428.8	1421.4
167.5°	1649.1	1612.9	1569.0	1536.6	1524.6	1506.6	1501.5	1487.2
170°	1680.3	1651.8	1609.5	1583.1	1573.6	1559.9	1551.4	1538.7
172.5°	1707.4	1683.9	1650.1	1626.2	1625.2	1609.7	1603.0	1595.4
175°	1742.7	1727.9	1701.5	1683.5	1689.9	1682.5	1681.4	1668.7
177.5°	1765.5	1762.1	1745.2	1737.6	1742.7	1743.5	1743.5	1734.2
180°	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5

(END OF REPORT)