

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: P709304

Luminaire Tested: DL2W-BB-M-125U-075D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709304
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-5, 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-125U-075D-930-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7602.7 lumens
Efficiency: N/A
Efficacy: 106.2 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

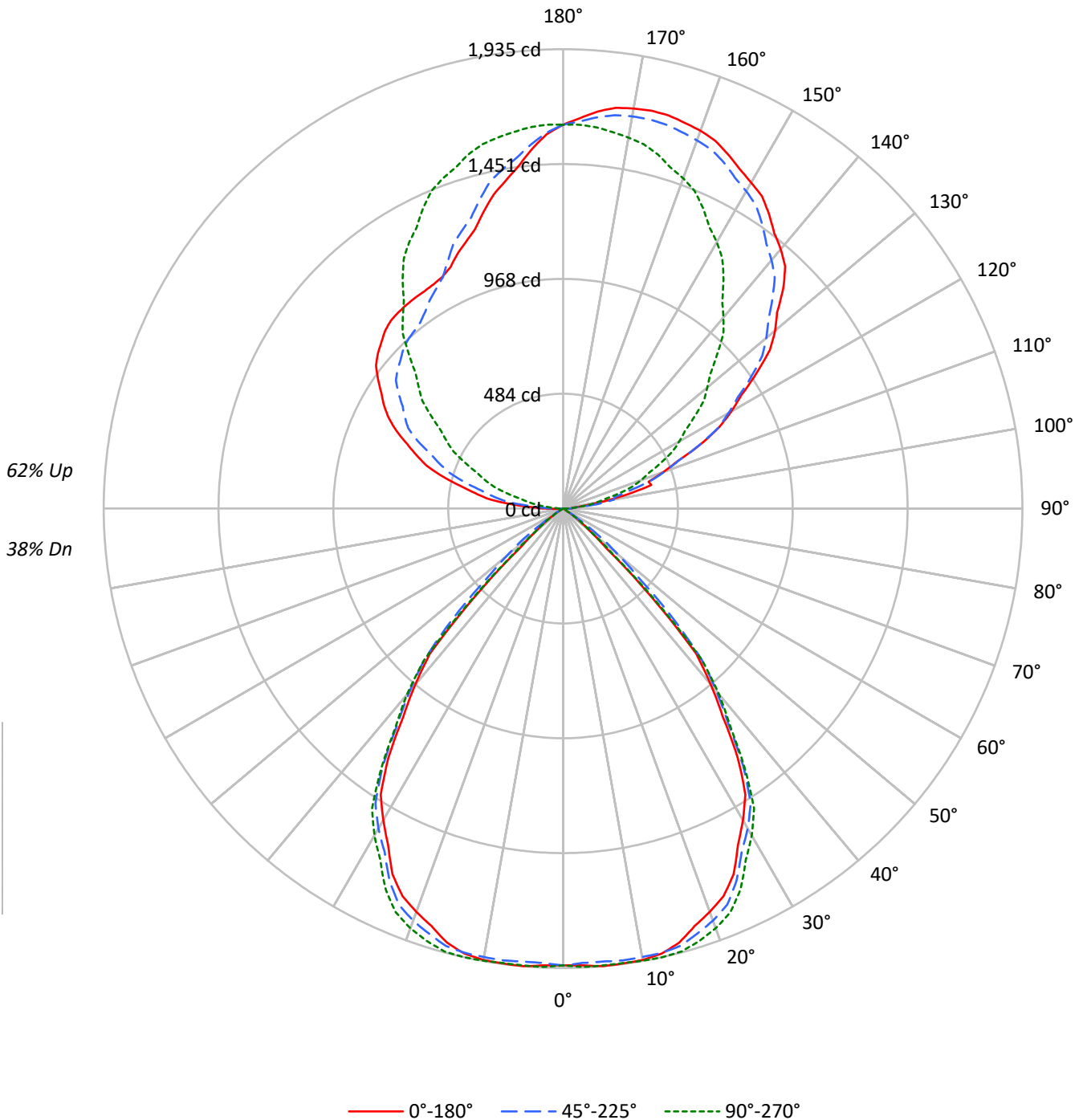
Input Watts (W): 71.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	97	93	90	87	88	85	82	79	69	67	66	55	54	53	42	41	41	35
2	89	83	78	73	81	76	71	68	63	60	57	50	48	47	39	38	37	32
3	82	74	68	63	75	68	63	59	57	53	50	46	43	41	36	35	33	29
4	76	67	60	55	69	62	56	51	51	47	44	42	39	37	33	32	30	26
5	71	60	53	48	64	56	50	45	47	42	39	39	35	33	31	29	27	24
6	65	55	48	42	60	51	44	40	43	38	35	35	32	30	29	26	25	22
7	61	50	43	38	56	46	40	36	39	35	31	33	29	27	27	24	23	20
8	57	46	39	34	52	42	36	32	36	31	28	30	27	24	25	22	21	18
9	53	42	35	30	49	39	33	29	33	29	26	28	25	22	23	21	19	17
10	50	39	32	28	45	36	30	26	31	26	23	26	23	20	22	19	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	31068	31068	31068	31068	31068
5°	31358	31044	31311	31044	31358
10°	31657	31449	31704	31449	31657
15°	31632	31883	32276	31883	31632
20°	31060	31731	32318	31731	31060
25°	30284	30799	31518	30799	30284
30°	28247	29006	29628	29006	28247
35°	25310	26079	26296	26079	25310
40°	20409	21198	21566	21198	20409
45°	12065	14999	12858	14999	12065
50°	3795	7670	4014	7670	3795
55°	1517	2697	1517	2697	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: 15054 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.0	2.4
10°-20°	538.9	7.1
20°-30°	792.9	10.4
30°-40°	810.4	10.7
40°-50°	466.8	6.1
50°-60°	80.3	1.1
60°-70°	2.9	0.0
70°-80°	0.0	0.0
80°-90°	8.6	0.1
90°-100°	128.3	1.7
100°-110°	374.6	4.9
110°-120°	611.8	8.0
120°-130°	777.1	10.2
130°-140°	831.5	10.9
140°-150°	776.5	10.2
150°-160°	639.0	8.4
160°-170°	428.7	5.6
170°-180°	152.2	2.0
0°-30°	1515.8	19.9
0°-40°	2326.1	30.6
0°-60°	2873.3	37.8
0°-90°	2884.8	37.9
90°-120°	1114.8	14.7
90°-150°	3499.9	46.0
90°-180°	4720.0	62.1
0°-180°	7602.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1924	1924	1924	1924	1924	
5°	1935	1915	1932	1915	1935	184
15°	1892	1907	1931	1907	1892	531
25°	1700	1729	1769	1729	1700	774
35°	1284	1323	1334	1323	1284	788
45°	528	657	563	657	528	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	3
90°	35	31	6	44	77	16
95°	38	47	50	165	229	63
105°	385	285	238	428	527	356
115°	639	634	453	678	774	626
125°	994	968	676	846	952	889
135°	1312	1247	918	951	1060	1007
145°	1513	1462	1178	1012	1085	946
155°	1646	1607	1396	1148	1122	759
165°	1715	1674	1544	1349	1294	484
175°	1679	1655	1612	1540	1519	161
180°	1617	1617	1617	1617	1617	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1924.2	1924.2	1924.2	1924.2	1924.2	1924.2	1924.2	1924.2	1924.2	1924.2	1924.2
2.5°	1925.7	1927.4	1929.1	1923.7	1915.8	1915.3	1922.1	1927.9	1930.2	1932.6	1930.2
5°	1934.8	1935.6	1936.5	1928.0	1916.5	1914.3	1921.6	1927.6	1929.7	1931.9	1929.7
7.5°	1932.5	1934.6	1936.7	1930.1	1920.6	1918.5	1923.6	1927.8	1929.3	1930.7	1929.3
10°	1930.9	1933.0	1935.2	1928.3	1918.5	1917.9	1926.4	1932.9	1933.4	1933.8	1933.4
12.5°	1920.1	1924.0	1927.8	1923.0	1915.2	1917.9	1931.3	1940.6	1938.0	1935.3	1938.0
15°	1892.4	1898.0	1903.5	1904.0	1902.7	1912.1	1932.2	1945.5	1938.2	1930.9	1938.2
17.5°	1843.9	1851.8	1859.6	1865.1	1869.8	1885.6	1912.4	1929.9	1919.6	1909.3	1919.6
20°	1807.7	1814.5	1821.4	1829.2	1837.3	1856.2	1885.7	1904.8	1892.8	1880.9	1892.8
22.5°	1766.9	1772.4	1777.8	1786.8	1797.0	1816.2	1844.3	1862.7	1851.8	1840.8	1851.8
25°	1699.9	1702.9	1705.9	1712.4	1720.1	1737.6	1765.0	1783.7	1776.5	1769.2	1776.5
27.5°	1595.9	1599.8	1603.6	1611.8	1621.4	1636.4	1657.0	1671.9	1669.8	1667.7	1669.8
30°	1515.1	1522.4	1529.6	1539.1	1549.4	1562.2	1577.6	1589.2	1589.2	1589.2	1589.2
32.5°	1428.8	1436.1	1443.4	1453.7	1465.0	1476.1	1487.0	1495.5	1496.5	1497.6	1496.5
35°	1284.1	1290.5	1296.9	1306.8	1318.0	1328.2	1337.6	1343.5	1338.8	1334.1	1338.8
37.5°	1106.2	1111.6	1117.0	1127.3	1139.3	1148.8	1155.9	1160.8	1159.0	1157.2	1159.0
40°	968.3	976.5	984.6	993.0	1001.6	1009.9	1018.1	1024.1	1023.6	1023.2	1023.6
42.5°	830.5	833.8	837.2	848.3	862.0	872.7	880.5	884.2	875.5	866.9	875.5
45°	528.4	572.5	616.6	639.1	654.5	659.3	653.3	639.3	601.2	563.1	601.2
47.5°	248.9	295.6	342.2	386.8	430.7	438.6	410.6	377.8	330.4	283.0	330.4
50°	151.1	167.0	182.8	235.8	301.3	309.4	260.2	216.3	188.0	159.8	188.0
52.5°	101.8	110.8	119.8	158.6	207.3	210.1	167.0	131.6	119.1	106.7	119.1
55°	53.9	56.5	59.0	75.1	95.6	96.0	76.4	60.7	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°	6.9	6.9	6.7	6.7	6.2	6.2	5.6	4.0	2.5	1.2	2.3
90°	34.6	34.6	33.7	33.7	30.8	30.8	27.9	20.2	12.5	5.8	11.5
92.5°	41.5	41.5	40.6	39.8	37.7	34.6	28.7	28.7	27.1	17.3	31.5
95°	37.5	37.5	36.5	37.5	41.4	52.9	76.9	84.6	57.7	50.0	72.1
97.5°	87.7	90.4	99.6	116.6	146.8	152.2	144.7	107.7	104.5	100.6	132.0
100°	173.1	178.9	190.4	205.8	241.4	191.4	150.0	150.0	141.4	137.5	171.2
102.5°	278.5	281.2	293.5	295.1	236.0	209.1	198.5	194.7	178.3	176.0	215.8
105°	384.7	364.5	320.3	287.6	284.7	284.7	283.7	266.4	243.3	238.5	279.9
107.5°	377.4	372.2	374.7	378.2	382.6	386.1	376.1	347.4	309.5	303.7	343.2
110°	448.2	441.5	446.3	452.0	454.9	456.9	437.6	398.2	358.8	349.1	384.7

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	520.5	517.6	517.8	525.9	525.7	525.3	500.7	452.8	405.7	389.9	424.0
115°	638.6	633.8	626.1	635.7	637.7	630.0	596.3	540.5	481.9	453.0	485.7
117.5°	740.6	739.0	741.4	745.2	742.5	730.6	687.3	624.2	559.2	519.9	543.0
120°	817.5	813.7	817.5	821.4	815.6	794.4	751.2	685.8	610.7	564.6	580.0
122.5°	891.4	890.6	889.9	885.2	885.6	861.4	811.2	742.7	665.4	609.2	614.6
125°	994.5	998.3	993.5	987.8	981.0	954.1	901.2	831.0	743.5	676.1	669.4
127.5°	1098.8	1099.3	1089.9	1084.3	1072.8	1041.6	988.2	919.1	824.5	747.9	723.8
130°	1165.7	1164.7	1156.1	1147.4	1132.0	1103.2	1047.4	975.3	882.9	792.5	760.8
132.5°	1222.6	1224.0	1213.8	1206.7	1187.4	1157.0	1105.9	1034.5	936.0	841.8	800.8
135°	1311.9	1313.8	1301.3	1285.0	1262.8	1231.1	1187.8	1119.5	1021.4	917.6	863.7
137.5°	1384.8	1383.5	1371.1	1356.3	1336.7	1302.7	1262.8	1195.3	1103.2	999.5	923.9
140°	1426.3	1427.3	1415.8	1399.4	1382.1	1350.4	1309.0	1244.6	1153.2	1050.3	972.4
142.5°	1461.7	1463.5	1455.0	1441.0	1420.6	1392.7	1355.9	1293.0	1203.2	1101.1	1017.0
145°	1512.9	1516.8	1509.1	1496.6	1477.3	1447.5	1416.7	1355.2	1272.5	1178.2	1086.8
147.5°	1559.7	1561.8	1555.6	1547.1	1527.5	1499.1	1470.6	1413.8	1336.1	1248.6	1155.9
150°	1585.0	1591.8	1584.1	1576.4	1559.1	1528.3	1505.2	1448.5	1379.2	1295.5	1205.1
152.5°	1612.0	1617.9	1610.2	1601.8	1584.5	1555.2	1533.7	1477.7	1413.8	1335.6	1252.1
155°	1645.6	1653.3	1647.6	1637.9	1620.6	1592.7	1571.6	1520.6	1462.9	1395.6	1317.7
157.5°	1676.8	1682.4	1677.4	1668.5	1647.2	1624.5	1602.4	1558.5	1506.6	1447.9	1380.0
160°	1693.7	1698.5	1692.8	1683.1	1661.0	1639.9	1621.6	1579.3	1531.2	1480.2	1417.7
162.5°	1703.7	1710.8	1705.1	1694.7	1672.6	1653.7	1636.2	1597.0	1553.5	1505.6	1451.5
165°	1714.9	1723.5	1716.8	1706.2	1682.2	1666.8	1653.3	1618.7	1581.2	1543.7	1497.5
167.5°	1716.4	1724.3	1718.2	1709.3	1685.5	1672.4	1661.8	1632.9	1601.2	1571.6	1533.3
170°	1711.0	1719.7	1715.8	1706.2	1683.1	1671.6	1664.9	1639.9	1612.0	1587.0	1557.2
172.5°	1702.6	1710.5	1705.8	1698.5	1675.5	1667.0	1662.6	1641.4	1618.9	1599.3	1576.4
175°	1679.3	1688.0	1683.1	1678.3	1657.2	1652.4	1653.3	1640.8	1625.4	1612.0	1597.5
177.5°	1646.0	1652.2	1648.3	1646.0	1632.9	1632.2	1636.8	1630.6	1623.7	1618.3	1612.2
180°	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1924.2	1924.2	1924.2	1924.2	1924.2	1924.2	1924.2	1924.2
2.5°	1927.9	1922.1	1915.3	1915.8	1923.7	1929.1	1927.4	1925.7
5°	1927.6	1921.6	1914.3	1916.5	1928.0	1936.5	1935.6	1934.8
7.5°	1927.8	1923.6	1918.5	1920.6	1930.1	1936.7	1934.6	1932.5
10°	1932.9	1926.4	1917.9	1918.5	1928.3	1935.2	1933.0	1930.9
12.5°	1940.6	1931.3	1917.9	1915.2	1923.0	1927.8	1924.0	1920.1
15°	1945.5	1932.2	1912.1	1902.7	1904.0	1903.5	1898.0	1892.4
17.5°	1929.9	1912.4	1885.6	1869.8	1865.1	1859.6	1851.8	1843.9
20°	1904.8	1885.7	1856.2	1837.3	1829.2	1821.4	1814.5	1807.7
22.5°	1862.7	1844.3	1816.2	1797.0	1786.8	1777.8	1772.4	1766.9
25°	1783.7	1765.0	1737.6	1720.1	1712.4	1705.9	1702.9	1699.9
27.5°	1671.9	1657.0	1636.4	1621.4	1611.8	1603.6	1599.8	1595.9
30°	1589.2	1577.6	1562.2	1549.4	1539.1	1529.6	1522.4	1515.1
32.5°	1495.5	1487.0	1476.1	1465.0	1453.7	1443.4	1436.1	1428.8
35°	1343.5	1337.6	1328.2	1318.0	1306.8	1296.9	1290.5	1284.1
37.5°	1160.8	1155.9	1148.8	1139.3	1127.3	1117.0	1111.6	1106.2
40°	1024.1	1018.1	1009.9	1001.6	993.0	984.6	976.5	968.3
42.5°	884.2	880.5	872.7	862.0	848.3	837.2	833.8	830.5
45°	639.3	653.3	659.3	654.5	639.1	616.6	572.5	528.4
47.5°	377.8	410.6	438.6	430.7	386.8	342.2	295.6	248.9
50°	216.3	260.2	309.4	301.3	235.8	182.8	167.0	151.1
52.5°	131.6	167.0	210.1	207.3	158.6	119.8	110.8	101.8
55°	60.7	76.4	96.0	95.6	75.1	59.0	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°	3.7	5.6	7.7	10.0	12.1	13.3	14.6	15.4
90°	18.3	27.9	38.5	50.0	60.6	66.4	73.1	76.9
92.5°	44.4	59.4	77.7	95.4	110.6	119.5	125.4	127.0
95°	104.8	126.0	151.0	179.9	196.2	213.5	226.0	228.9
97.5°	161.8	199.7	234.5	260.3	286.0	304.9	316.8	320.7
100°	204.9	244.3	287.6	316.4	345.3	362.6	379.9	376.1
102.5°	254.1	291.2	335.3	369.5	403.8	424.9	437.6	443.8
105°	325.1	368.4	405.9	451.1	479.9	504.9	523.2	527.1
107.5°	391.6	441.3	479.0	521.9	556.3	578.4	597.3	603.6
110°	438.6	490.5	536.7	570.3	604.0	630.0	647.3	655.9

TEST NUMBER: P709304

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	480.9	533.6	585.9	624.2	660.2	683.8	701.2	710.6
115°	541.5	598.2	649.2	706.0	736.7	756.9	769.4	774.2
117.5°	597.1	654.8	709.8	762.1	799.3	812.7	822.5	828.3
120°	630.9	688.6	744.4	794.4	833.9	855.0	865.6	871.4
122.5°	662.5	721.0	776.0	826.0	865.4	889.7	903.3	907.6
125°	709.8	768.5	823.3	868.5	907.9	934.9	950.3	952.2
127.5°	753.1	803.9	863.5	911.0	948.1	973.1	987.2	993.0
130°	780.0	826.2	885.8	934.9	970.5	999.3	1011.8	1017.6
132.5°	807.7	847.0	902.7	954.1	992.8	1018.5	1031.8	1037.6
135°	853.1	876.2	925.2	977.2	1015.7	1041.6	1055.1	1059.9
137.5°	903.9	909.5	941.8	990.5	1031.4	1056.6	1067.6	1073.8
140°	937.8	934.9	954.1	997.4	1036.8	1062.8	1075.3	1079.1
142.5°	973.9	962.6	971.8	1004.3	1040.7	1065.1	1078.4	1082.2
145°	1031.0	1008.0	1003.2	1021.4	1045.5	1068.6	1081.1	1084.9
147.5°	1093.6	1062.6	1040.3	1046.1	1058.4	1073.6	1085.3	1086.1
150°	1135.9	1100.3	1069.5	1067.6	1071.4	1082.0	1090.7	1090.7
152.5°	1181.3	1137.2	1101.8	1093.8	1090.7	1095.9	1101.5	1100.7
155°	1249.4	1201.3	1157.0	1138.8	1131.1	1125.3	1125.3	1122.4
157.5°	1315.2	1264.2	1218.2	1195.7	1180.7	1172.4	1167.4	1161.7
160°	1359.0	1308.0	1255.1	1234.9	1217.6	1207.1	1201.3	1195.5
162.5°	1398.3	1351.1	1301.3	1271.9	1256.9	1247.1	1240.5	1233.2
165°	1453.3	1411.9	1364.8	1334.0	1318.6	1306.1	1300.4	1293.6
167.5°	1500.8	1467.9	1427.9	1398.5	1387.5	1371.1	1366.5	1353.4
170°	1529.3	1503.3	1464.8	1440.8	1432.1	1419.6	1411.9	1400.4
172.5°	1553.9	1532.5	1501.8	1480.0	1479.1	1465.0	1458.9	1451.9
175°	1586.0	1572.5	1548.5	1532.1	1537.9	1531.2	1530.2	1518.7
177.5°	1606.8	1603.7	1588.3	1581.4	1586.0	1586.8	1586.8	1578.3
180°	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8

(END OF REPORT)