

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: P709316

Luminaire Tested: DL2W-BB-M-150U-075D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709316
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-6, 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-150U-075D-930-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8482.0 lumens
Efficiency: N/A
Efficacy: 102.7 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

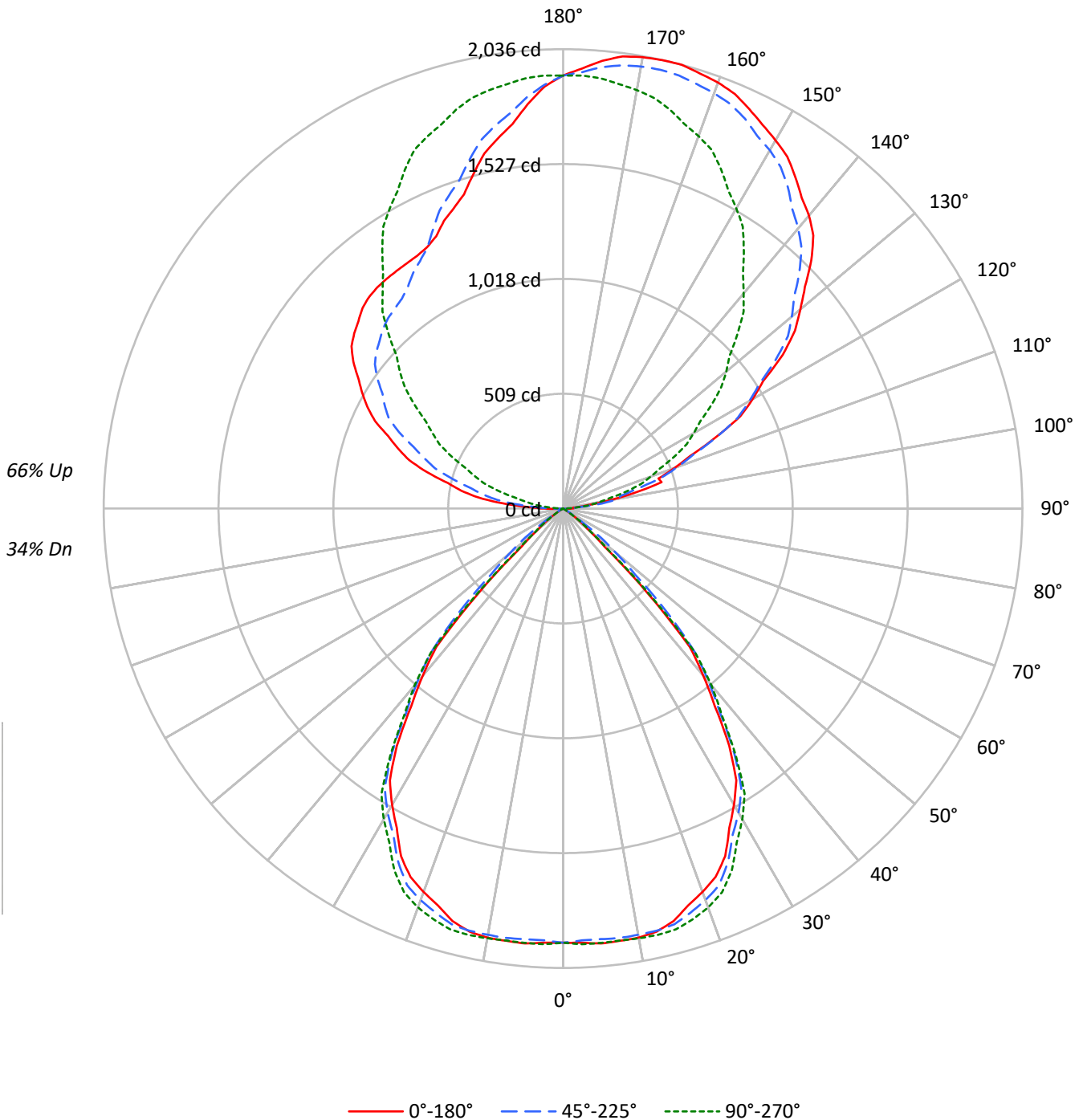
Input Watts (W): 82.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	96	92	88	86	86	83	80	78	67	65	64	52	51	50	39	38	37	31
2	88	82	77	72	80	74	70	66	60	57	55	48	46	44	36	35	34	28
3	81	73	67	62	74	67	61	57	55	51	48	43	41	39	33	32	30	26
4	75	66	59	54	68	60	54	50	49	45	42	40	37	35	30	29	28	24
5	69	59	52	47	63	54	48	44	45	41	37	36	33	31	28	26	25	22
6	64	54	46	41	58	49	43	39	41	37	33	33	30	28	26	24	23	20
7	60	49	42	37	54	45	39	34	38	33	30	31	28	25	24	22	21	18
8	56	45	38	33	51	41	35	31	35	30	27	28	25	23	23	20	19	17
9	52	41	34	29	47	38	32	28	32	27	24	26	23	21	21	19	17	15
10	49	38	31	27	44	35	29	25	29	25	22	24	21	19	20	18	16	14

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	31730	32318	31730	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	2.2
10°-20°	538.9	6.4
20°-30°	792.9	9.3
30°-40°	810.4	9.6
40°-50°	466.8	5.5
50°-60°	80.3	0.9
60°-70°	2.9	0.0
70°-80°	0.0	0.0
80°-90°	10.2	0.1
90°-100°	151.8	1.8
100°-110°	443.3	5.2
110°-120°	725.6	8.6
120°-130°	921.7	10.9
130°-140°	986.6	11.6
140°-150°	921.4	10.9
150°-160°	758.3	8.9
160°-170°	508.6	6.0
170°-180°	180.6	2.1
0°-30°	1515.8	17.9
0°-40°	2326.1	27.4
0°-60°	2873.3	33.9
0°-90°	2886.3	34.0
90°-120°	1320.7	15.6
90°-150°	4150.5	48.9
90°-180°	5598.0	66.0
0°-180°	8482.0	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°	40	37	7	51	85	19
95°	44	60	62	196	272	75
105°	452	338	286	505	624	419
115°	746	752	542	803	920	739
125°	1189	1151	804	1004	1135	1052
135°	1556	1481	1093	1128	1257	1194
145°	1795	1738	1396	1199	1286	1124
155°	1953	1907	1658	1364	1331	901
165°	2036	1987	1830	1601	1535	575
175°	1992	1964	1914	1830	1799	191
180°	1919	1919	1919	1919	1919	

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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	1927.8	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°	1932.4	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	1856.1	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	1671.8	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°	8.1	8.3	8.1	7.7	7.5	7.3	6.2	4.6	2.9	1.3	2.9
90°	40.4	41.4	40.4	38.5	37.5	36.5	30.8	23.1	14.4	6.7	14.4
92.5°	49.6	49.1	48.9	46.9	45.2	40.4	33.1	33.1	33.7	21.4	36.0
95°	44.2	44.2	43.3	43.3	51.0	68.3	94.3	93.3	67.3	61.6	86.6
97.5°	102.7	102.9	116.2	144.1	167.5	179.9	167.7	126.0	123.7	118.9	155.2
100°	205.8	202.9	223.1	247.2	272.2	222.2	177.0	176.0	168.3	159.7	206.8
102.5°	327.4	339.1	347.0	347.2	276.0	246.8	237.8	229.9	213.7	208.1	254.5
105°	452.0	432.8	373.2	338.6	333.7	341.4	342.4	313.5	288.5	285.7	331.8
107.5°	443.6	436.8	441.3	449.9	457.6	458.4	446.5	404.7	366.6	361.1	401.5
110°	525.1	522.3	529.0	533.8	541.5	537.6	520.3	473.2	425.1	412.6	453.0

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	609.8	615.4	615.2	623.8	626.1	621.5	593.4	540.1	484.4	464.9	503.8
115°	746.4	744.4	751.2	753.1	757.9	745.4	703.1	641.5	571.3	542.5	577.1
117.5°	885.0	879.3	879.3	890.0	886.4	860.2	817.1	744.0	665.2	617.5	643.8
120°	970.5	968.5	968.5	972.4	969.5	938.7	892.5	811.8	725.2	667.5	687.7
122.5°	1051.2	1058.6	1052.4	1054.7	1048.7	1018.7	961.0	879.5	785.2	722.1	730.0
125°	1188.8	1181.1	1176.3	1174.4	1167.6	1134.0	1071.4	983.0	881.0	804.1	793.5
127.5°	1295.5	1298.8	1292.8	1285.9	1272.8	1239.4	1175.5	1086.3	979.9	882.9	859.7
130°	1372.5	1375.4	1370.6	1362.9	1343.6	1303.2	1245.5	1157.0	1048.4	944.5	905.1
132.5°	1454.0	1451.5	1445.2	1428.3	1408.3	1370.2	1308.6	1225.5	1109.9	999.9	951.2
135°	1556.2	1557.1	1542.7	1525.4	1502.3	1460.0	1409.0	1327.3	1211.9	1092.6	1022.4
137.5°	1641.8	1640.2	1626.0	1611.6	1582.9	1546.2	1497.1	1419.6	1306.9	1184.5	1096.6
140°	1695.6	1695.6	1682.2	1663.9	1639.9	1602.4	1553.3	1477.3	1371.5	1244.6	1151.3
142.5°	1737.2	1738.0	1724.5	1710.8	1686.8	1653.9	1605.6	1532.7	1426.9	1310.0	1205.1
145°	1794.7	1798.6	1788.0	1776.4	1753.4	1721.6	1683.1	1608.1	1513.9	1396.5	1290.7
147.5°	1849.5	1853.4	1847.0	1835.1	1812.0	1778.9	1743.9	1675.8	1586.8	1482.1	1374.4
150°	1884.2	1888.0	1879.4	1869.7	1850.5	1815.9	1783.2	1715.8	1632.2	1536.0	1432.1
152.5°	1916.5	1920.3	1913.2	1902.1	1879.7	1845.9	1817.8	1752.8	1675.3	1587.5	1486.7
155°	1953.4	1962.1	1955.3	1944.8	1922.6	1890.9	1864.9	1805.3	1735.1	1658.1	1564.8
157.5°	1989.2	1998.6	1989.2	1979.2	1953.2	1926.5	1902.2	1847.4	1786.8	1720.8	1636.4
160°	2009.2	2017.9	2009.2	1997.7	1971.7	1945.7	1924.6	1873.6	1816.8	1756.2	1684.1
162.5°	2021.5	2030.9	2023.8	2010.7	1984.0	1960.3	1940.7	1894.4	1842.2	1787.0	1721.0
165°	2036.1	2046.7	2038.0	2022.7	1996.7	1977.5	1961.1	1919.7	1875.5	1830.3	1777.4
167.5°	2035.9	2048.1	2039.2	2029.0	1999.6	1984.8	1970.7	1937.1	1899.9	1864.0	1821.6
170°	2031.3	2041.9	2036.1	2027.5	1995.7	1983.2	1974.6	1944.8	1913.0	1883.2	1848.6
172.5°	2021.3	2031.1	2024.6	2015.9	1986.5	1976.3	1972.3	1947.8	1920.7	1897.8	1868.6
175°	1991.9	2005.3	2000.5	1992.8	1966.9	1961.1	1962.1	1945.7	1928.4	1914.0	1896.7
177.5°	1952.6	1961.1	1960.3	1953.4	1935.7	1937.3	1943.4	1933.4	1926.5	1921.1	1912.6
180°	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8

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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°	1927.8	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	1932.4
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	1856.1	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°	1671.8	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°	4.6	6.5	9.2	11.3	14.0	16.4	17.3	16.9
90°	23.1	32.7	46.2	56.7	70.2	81.8	86.6	84.6
92.5°	52.3	71.9	92.3	111.4	131.8	143.3	148.1	149.3
95°	121.2	149.1	181.8	210.6	235.6	253.9	258.7	272.2
97.5°	190.2	239.1	278.0	311.2	342.6	363.0	374.7	379.3
100°	243.3	291.4	339.5	375.1	412.6	429.9	446.3	457.8
102.5°	300.3	343.0	396.5	441.3	478.0	502.3	512.4	522.4
105°	385.7	434.7	480.9	530.0	568.4	599.2	620.4	624.2
107.5°	465.5	523.4	570.9	620.4	658.3	686.5	707.7	715.0
110°	519.4	578.0	634.8	674.2	717.5	747.3	764.6	778.1

TEST NUMBER: P709316

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	568.6	631.1	693.3	743.5	782.1	811.9	831.6	838.9
115°	643.4	706.0	771.4	833.9	875.2	896.4	910.8	919.5
117.5°	709.8	777.9	839.5	902.9	945.6	967.8	972.0	978.9
120°	748.3	819.5	884.9	940.6	988.7	1014.7	1024.3	1028.2
122.5°	788.3	856.4	920.2	977.6	1024.1	1055.5	1071.2	1075.9
125°	843.5	910.8	974.3	1033.9	1077.2	1109.0	1126.3	1134.9
127.5°	891.8	955.1	1021.8	1080.7	1123.2	1154.0	1172.6	1181.9
130°	927.2	982.0	1050.3	1109.9	1153.2	1184.0	1200.3	1208.0
132.5°	961.0	1005.1	1072.6	1132.2	1177.8	1207.8	1224.2	1230.3
135°	1014.7	1040.7	1096.4	1159.9	1206.1	1234.9	1251.3	1257.1
137.5°	1072.8	1078.8	1116.8	1176.3	1223.6	1253.4	1267.6	1272.5
140°	1112.8	1108.0	1133.0	1184.0	1232.1	1261.9	1275.3	1280.2
142.5°	1156.7	1142.6	1153.8	1192.4	1235.1	1265.0	1279.2	1284.0
145°	1223.4	1197.4	1188.8	1209.9	1241.7	1266.7	1282.1	1285.9
147.5°	1299.6	1261.7	1234.2	1240.3	1256.1	1274.0	1286.7	1289.0
150°	1350.4	1303.2	1269.6	1265.7	1271.5	1284.0	1293.6	1293.6
152.5°	1401.1	1350.9	1308.0	1296.5	1294.6	1299.4	1305.9	1305.2
155°	1482.1	1423.5	1374.4	1353.2	1340.7	1336.9	1335.0	1331.1
157.5°	1560.2	1499.4	1444.4	1415.6	1399.8	1390.2	1385.6	1379.6
160°	1614.9	1549.5	1493.7	1461.0	1447.5	1430.2	1426.3	1415.8
162.5°	1657.9	1602.5	1542.9	1510.2	1492.1	1477.9	1472.5	1460.4
165°	1724.5	1676.4	1616.8	1585.0	1562.9	1550.4	1539.8	1535.0
167.5°	1783.6	1742.4	1690.6	1658.1	1646.8	1627.9	1619.1	1612.0
170°	1815.9	1783.2	1739.9	1708.2	1697.6	1684.1	1674.5	1665.8
172.5°	1843.6	1820.9	1780.7	1758.9	1749.1	1737.2	1729.9	1718.2
175°	1880.3	1865.9	1839.9	1820.7	1825.5	1813.9	1812.0	1798.6
177.5°	1906.5	1901.9	1884.2	1876.5	1885.7	1881.9	1881.1	1872.6
180°	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8

(END OF REPORT)