

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: P709390

Luminaire Tested: DL2W-WB-M-125U-075D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

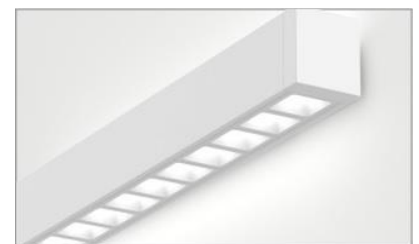
Test Information

Test Method: LM-79-2019
Report Number: P709390
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-5, G3-2104-222-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-M-125U-075D-940-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: 8646.8 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.17
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

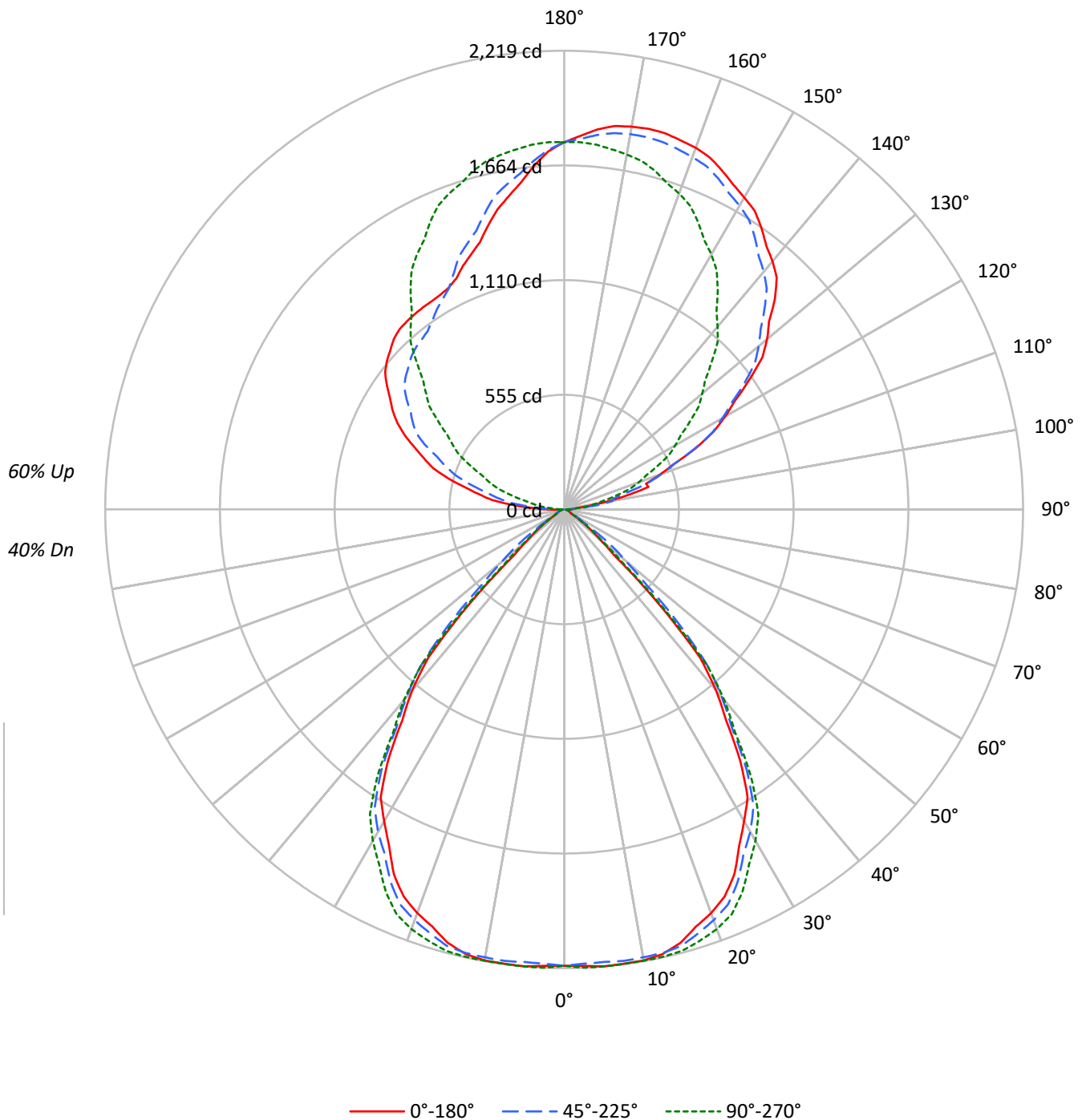
Input Watts (W): 71.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47
1	97	93	90	87	88	85	82	80	70	68	67	56	55	54	44	43	42
2	90	83	78	73	82	76	72	68	63	60	58	51	49	48	40	39	38
3	83	74	68	63	75	69	63	59	57	53	50	47	44	42	37	36	34
4	76	67	60	55	70	62	56	51	52	48	44	43	40	37	34	32	31
5	71	60	53	48	65	56	50	45	47	43	39	39	36	33	32	30	28
6	66	55	48	42	60	51	44	40	43	38	35	36	33	30	29	27	25
7	61	50	43	38	56	46	40	36	40	35	31	33	30	27	27	25	23
8	57	46	39	34	52	42	36	32	36	32	28	31	27	25	25	23	21
9	53	42	35	30	49	39	33	29	34	29	26	28	25	23	24	21	19
10	50	39	32	28	46	36	30	26	31	26	23	26	23	21	22	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	35645	35645	35645	35645	35645
5°	35953	35614	35971	35614	35953
10°	36316	36070	36334	36070	36316
15°	36284	36546	36939	36546	36284
20°	35697	36327	37115	36327	35697
25°	34693	35389	36351	35389	34693
30°	32438	33557	34491	33557	32438
35°	29268	30364	31020	30364	29268
40°	24091	25004	25429	25004	24091
45°	14936	18007	15901	18007	14936
50°	5689	9854	6222	9854	5689
55°	3040	4571	3068	4571	3040
60°	1298	2222	1437	2222	1298
65°	1215	1360	1295	1360	1215
70°	1199	1293	1251	1293	1199
75°	1123	1248	1254	1248	1123
80°	1079	1190	1181	1190	1079
85°	982	1000	1186	1000	982

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°

Vertical Angle: 45°

Luminance: 18100 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	2.4
10°-20°	617.2	7.1
20°-30°	912.6	10.6
30°-40°	944.2	10.9
40°-50°	568.0	6.6
50°-60°	135.8	1.6
60°-70°	37.1	0.4
70°-80°	20.8	0.2
80°-90°	14.0	0.2
90°-100°	141.0	1.6
100°-110°	411.6	4.8
110°-120°	672.3	7.8
120°-130°	853.9	9.9
130°-140°	913.7	10.6
140°-150°	853.2	9.9
150°-160°	702.2	8.1
160°-170°	471.0	5.4
170°-180°	167.2	1.9
0°-30°	1740.9	20.1
0°-40°	2685.2	31.1
0°-60°	3388.9	39.2
0°-90°	3460.8	40.0
90°-120°	1224.9	14.2
90°-150°	3845.7	44.5
90°-180°	5186.0	60.0
0°-180°	8646.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2208	2208	2208	2208	2208	
5°	2218	2197	2219	2197	2218	211
15°	2171	2186	2210	2186	2171	610
25°	1947	1986	2040	1986	1947	888
35°	1485	1540	1574	1540	1485	913
45°	654	789	696	789	654	500
55°	108	162	109	162	108	105
65°	32	36	34	36	32	32
75°	18	20	20	20	18	19
85°	5	5	6	5	5	7
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°	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7
2.5°	2209.4	2211.3	2213.2	2207.5	2199.2	2199.0	2206.9	2213.5	2216.1	2218.7	2216.1
5°	2218.3	2219.7	2221.1	2211.6	2198.4	2196.3	2205.3	2212.8	2216.1	2219.4	2216.1
7.5°	2216.0	2218.2	2220.3	2213.4	2203.4	2201.9	2208.7	2214.2	2215.6	2217.0	2215.6
10°	2215.1	2216.6	2218.0	2210.6	2200.2	2200.0	2209.9	2217.1	2216.7	2216.2	2216.7
12.5°	2202.4	2205.7	2209.0	2203.8	2195.7	2198.8	2213.2	2223.1	2219.2	2215.4	2219.2
15°	2170.7	2175.4	2180.1	2181.3	2181.3	2191.4	2211.6	2224.9	2217.4	2209.9	2217.4
17.5°	2116.5	2122.2	2128.0	2134.8	2142.1	2159.2	2186.2	2204.2	2195.3	2186.4	2195.3
20°	2077.6	2079.9	2082.3	2091.7	2103.4	2125.1	2156.6	2178.0	2169.0	2160.1	2169.0
22.5°	2026.8	2030.6	2034.5	2045.1	2058.0	2081.3	2115.1	2138.0	2128.3	2118.6	2128.3
25°	1947.4	1952.6	1957.7	1966.1	1975.5	1997.4	2031.7	2055.6	2048.0	2040.5	2048.0
27.5°	1833.1	1840.2	1847.4	1857.2	1867.9	1889.4	1921.6	1944.6	1940.5	1936.4	1940.5
30°	1739.9	1751.2	1762.5	1775.9	1790.0	1809.8	1835.2	1853.8	1851.9	1850.0	1851.9
32.5°	1651.0	1660.1	1669.1	1681.4	1694.7	1712.6	1735.0	1751.3	1749.4	1747.6	1749.4
35°	1484.9	1494.3	1503.7	1517.7	1533.2	1547.8	1561.4	1571.9	1572.8	1573.8	1572.8
37.5°	1286.1	1295.6	1305.1	1316.7	1328.9	1340.4	1351.2	1359.0	1357.7	1356.4	1357.7
40°	1143.0	1145.4	1147.7	1161.7	1179.6	1193.0	1201.9	1208.4	1207.5	1206.5	1207.5
42.5°	972.0	983.0	994.0	1007.1	1020.8	1033.8	1046.2	1051.9	1037.8	1023.6	1037.8
45°	654.1	699.2	744.4	768.0	784.5	792.7	792.7	782.0	739.2	696.4	739.2
47.5°	328.9	383.8	438.6	489.0	538.0	549.2	522.8	490.7	442.0	393.3	442.0
50°	226.5	244.8	263.2	318.6	386.3	398.3	354.5	313.5	280.6	247.7	280.6
52.5°	166.4	176.1	185.8	231.1	288.3	293.9	247.9	209.2	192.4	175.7	192.4
55°	108.0	111.7	115.5	135.8	161.7	163.1	140.1	121.2	115.1	109.0	115.1
57.5°	65.6	71.5	77.5	85.7	94.8	94.8	85.7	77.4	71.1	64.8	71.1
60°	40.2	45.4	50.6	58.9	68.3	69.3	61.7	54.8	49.6	44.5	49.6
62.5°	36.8	38.6	40.4	46.5	54.0	54.6	48.2	42.9	40.7	38.5	40.7
65°	31.8	32.7	33.6	34.6	35.5	35.7	35.3	34.8	34.3	33.9	34.3
67.5°	27.9	28.8	29.6	29.9	30.0	30.2	30.6	30.8	30.3	29.8	30.3
70°	25.4	25.9	26.3	26.8	27.3	27.5	27.5	27.4	26.9	26.5	26.9
72.5°	22.0	22.9	23.7	24.0	24.1	24.3	24.7	24.9	24.4	23.9	24.4
75°	18.0	18.5	18.9	19.4	19.9	20.1	20.1	20.1	20.1	20.1	20.1
77.5°	14.2	14.7	15.1	15.2	15.2	15.5	15.9	16.2	15.7	15.2	15.7
80°	11.6	12.1	12.6	12.7	12.7	12.9	13.4	13.6	13.2	12.7	13.2
82.5°	9.1	9.6	10.0	10.2	10.2	10.2	10.3	10.3	10.3	10.2	10.3
85°	5.3	5.3	5.3	5.3	5.3	5.5	6.0	6.4	6.4	6.4	6.4
87.5°	9.3	9.3	9.1	9.1	8.5	8.6	8.4	6.9	4.8	3.0	4.6
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°	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7
2.5°	2213.5	2206.9	2199.0	2199.2	2207.5	2213.2	2211.3	2209.4
5°	2212.8	2205.3	2196.3	2198.4	2211.6	2221.1	2219.7	2218.3
7.5°	2214.2	2208.7	2201.9	2203.4	2213.4	2220.3	2218.2	2216.0
10°	2217.1	2209.9	2200.0	2200.2	2210.6	2218.0	2216.6	2215.1
12.5°	2223.1	2213.2	2198.8	2195.7	2203.8	2209.0	2205.7	2202.4
15°	2224.9	2211.6	2191.4	2181.3	2181.3	2180.1	2175.4	2170.7
17.5°	2204.2	2186.2	2159.2	2142.1	2134.8	2128.0	2122.2	2116.5
20°	2178.0	2156.6	2125.1	2103.4	2091.7	2082.3	2079.9	2077.6
22.5°	2138.0	2115.1	2081.3	2058.0	2045.1	2034.5	2030.6	2026.8
25°	2055.6	2031.7	1997.4	1975.5	1966.1	1957.7	1952.6	1947.4
27.5°	1944.6	1921.6	1889.4	1867.9	1857.2	1847.4	1840.2	1833.1
30°	1853.8	1835.2	1809.8	1790.0	1775.9	1762.5	1751.2	1739.9
32.5°	1751.3	1735.0	1712.6	1694.7	1681.4	1669.1	1660.1	1651.0
35°	1571.9	1561.4	1547.8	1533.2	1517.7	1503.7	1494.3	1484.9
37.5°	1359.0	1351.2	1340.4	1328.9	1316.7	1305.1	1295.6	1286.1
40°	1208.4	1201.9	1193.0	1179.6	1161.7	1147.7	1145.4	1143.0
42.5°	1051.9	1046.2	1033.8	1020.8	1007.1	994.0	983.0	972.0
45°	782.0	792.7	792.7	784.5	768.0	744.4	699.2	654.1
47.5°	490.7	522.8	549.2	538.0	489.0	438.6	383.8	328.9
50°	313.5	354.5	398.3	386.3	318.6	263.2	244.8	226.5
52.5°	209.2	247.9	293.9	288.3	231.1	185.8	176.1	166.4
55°	121.2	140.1	163.1	161.7	135.8	115.5	111.7	108.0
57.5°	77.4	85.7	94.8	94.8	85.7	77.5	71.5	65.6
60°	54.8	61.7	69.3	68.3	58.9	50.6	45.4	40.2
62.5°	42.9	48.2	54.6	54.0	46.5	40.4	38.6	36.8
65°	34.8	35.3	35.7	35.5	34.6	33.6	32.7	31.8
67.5°	30.8	30.6	30.2	30.0	29.9	29.6	28.8	27.9
70°	27.4	27.5	27.5	27.3	26.8	26.3	25.9	25.4
72.5°	24.9	24.7	24.3	24.1	24.0	23.7	22.9	22.0
75°	20.1	20.1	20.1	19.9	19.4	18.9	18.5	18.0
77.5°	16.2	15.9	15.5	15.2	15.2	15.1	14.7	14.2
80°	13.6	13.4	12.9	12.7	12.7	12.6	12.1	11.6
82.5°	10.3	10.3	10.2	10.2	10.2	10.0	9.6	9.1
85°	6.4	6.0	5.5	5.3	5.3	5.3	5.3	5.3
87.5°	6.5	8.4	10.3	12.7	15.0	16.3	17.8	18.6
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: P709390

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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)