

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: P709318

Luminaire Tested: DL2W-BB-M-150U-075D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709318
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-940-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: 9322.8 lumens
Efficiency: N/A
Efficacy: 112.9 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

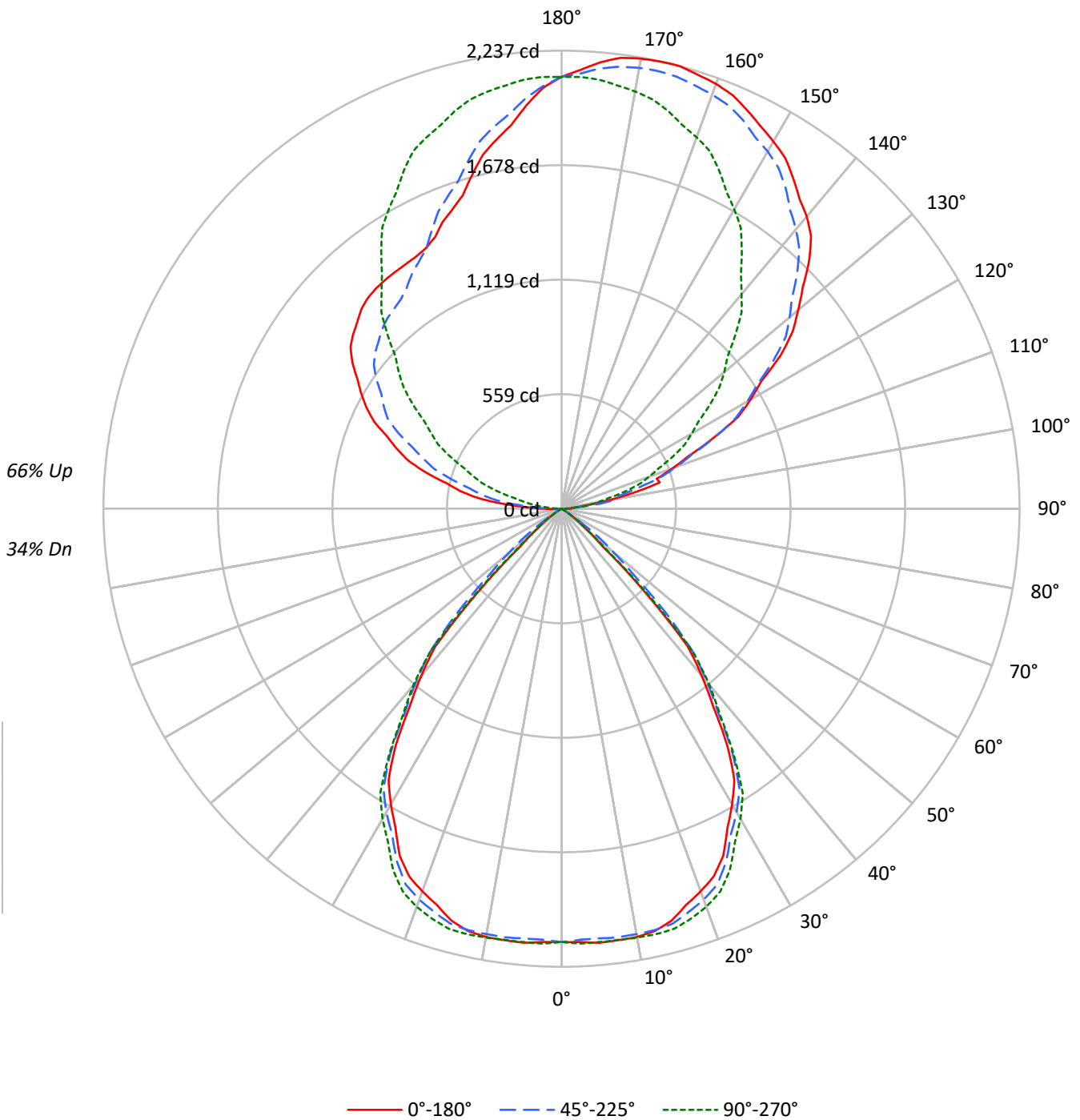
Input Watts (W): 82.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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CATALOG NUMBER: DL2W-BB-M-150U-075D-940-UNV-STD-W-WM-4

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	29
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	31	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°	34168	34168	34168	34168	34168
5°	34486	34141	34434	34141	34486
10°	34816	34586	34869	34586	34816
15°	34788	35064	35497	35064	34788
20°	34160	34898	35541	34898	34160
25°	33305	33872	34663	33872	33305
30°	31066	31900	32585	31900	31066
35°	27835	28682	28919	28682	27835
40°	22447	23313	23718	23313	22447
45°	13271	16496	14141	16496	13271
50°	4175	8435	4413	8435	4175
55°	1669	2967	1669	2967	1669
60°	36	806	103	806	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: 16554 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	2.2
10°-20°	592.7	6.4
20°-30°	872.0	9.4
30°-40°	891.2	9.6
40°-50°	513.4	5.5
50°-60°	88.4	0.9
60°-70°	3.2	0.0
70°-80°	0.0	0.0
80°-90°	11.2	0.1
90°-100°	166.8	1.8
100°-110°	487.2	5.2
110°-120°	797.3	8.6
120°-130°	1012.7	10.9
130°-140°	1084.1	11.6
140°-150°	1012.5	10.9
150°-160°	833.2	8.9
160°-170°	558.9	6.0
170°-180°	198.4	2.1
0°-30°	1667.0	17.9
0°-40°	2558.2	27.4
0°-60°	3160.0	33.9
0°-90°	3174.3	34.0
90°-120°	1451.2	15.6
90°-150°	4560.5	48.9
90°-180°	6151.0	66.0
0°-180°	9322.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2116	2116	2116	2116	2116	
5°	2128	2106	2125	2106	2128	203
15°	2081	2098	2124	2098	2081	584
25°	1870	1901	1946	1901	1870	851
35°	1412	1455	1467	1455	1412	866
45°	581	722	619	722	581	450
55°	59	105	59	105	59	61
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	

TEST NUMBER: P709318

CATALOG NUMBER: DL2W-BB-M-150U-075D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2
2.5°	2117.9	2119.7	2121.6	2115.6	2106.9	2106.4	2113.9	2120.2	2122.8	2125.5	2122.8
5°	2127.8	2128.8	2129.7	2120.4	2107.7	2105.3	2113.3	2119.9	2122.3	2124.6	2122.3
7.5°	2125.3	2127.6	2130.0	2122.7	2112.3	2109.9	2115.5	2120.2	2121.8	2123.4	2121.8
10°	2123.6	2125.9	2128.3	2120.8	2109.9	2109.2	2118.6	2125.8	2126.3	2126.8	2126.3
12.5°	2111.7	2116.0	2120.2	2114.8	2106.3	2109.3	2124.0	2134.3	2131.4	2128.4	2131.4
15°	2081.2	2087.3	2093.5	2093.9	2092.5	2102.9	2125.0	2139.6	2131.6	2123.6	2131.6
17.5°	2027.9	2036.5	2045.2	2051.2	2056.4	2073.7	2103.2	2122.4	2111.2	2099.9	2111.2
20°	1988.1	1995.6	2003.1	2011.7	2020.7	2041.4	2073.8	2094.9	2081.7	2068.5	2081.7
22.5°	1943.2	1949.2	1955.2	1965.1	1976.3	1997.4	2028.4	2048.6	2036.5	2024.5	2036.5
25°	1869.5	1872.8	1876.1	1883.3	1891.7	1911.0	1941.1	1961.7	1953.7	1945.7	1953.7
27.5°	1755.2	1759.4	1763.6	1772.6	1783.1	1799.7	1822.3	1838.7	1836.4	1834.2	1836.4
30°	1666.3	1674.3	1682.3	1692.7	1704.0	1718.1	1735.1	1747.8	1747.8	1747.8	1747.8
32.5°	1571.4	1579.4	1587.4	1598.7	1611.1	1623.4	1635.4	1644.7	1645.9	1647.0	1645.9
35°	1412.2	1419.2	1426.3	1437.2	1449.5	1460.8	1471.1	1477.6	1472.4	1467.2	1472.4
37.5°	1216.6	1222.5	1228.4	1239.8	1252.9	1263.4	1271.3	1276.6	1274.6	1272.7	1274.6
40°	1065.0	1073.9	1082.8	1092.1	1101.5	1110.7	1119.7	1126.2	1125.8	1125.3	1125.8
42.5°	913.4	917.0	920.7	932.9	948.0	959.8	968.3	972.4	962.9	953.4	962.9
45°	581.2	629.6	678.1	702.9	719.9	725.0	718.4	703.0	661.2	619.3	661.2
47.5°	273.8	325.0	376.3	425.4	473.6	482.4	451.6	415.5	363.4	311.2	363.4
50°	166.2	183.6	201.0	259.4	331.3	340.3	286.2	237.8	206.8	175.7	206.8
52.5°	112.0	121.9	131.8	174.4	227.9	231.0	183.7	144.8	131.0	117.3	131.0
55°	59.3	62.1	64.9	82.6	105.2	105.6	84.0	66.8	63.0	59.3	63.0
57.5°	22.2	26.8	31.5	38.6	46.6	46.4	37.9	30.3	25.2	20.1	25.2
60°	1.1	5.3	9.5	16.6	24.6	25.3	18.7	12.6	7.9	3.2	7.9
62.5°	0.2	1.4	2.7	7.8	14.3	14.5	8.3	3.3	2.0	0.6	2.0
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°	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2
2.5°	2120.2	2113.9	2106.4	2106.9	2115.6	2121.6	2119.7	2117.9
5°	2119.9	2113.3	2105.3	2107.7	2120.4	2129.7	2128.8	2127.8
7.5°	2120.2	2115.5	2109.9	2112.3	2122.7	2130.0	2127.6	2125.3
10°	2125.8	2118.6	2109.2	2109.9	2120.8	2128.3	2125.9	2123.6
12.5°	2134.3	2124.0	2109.3	2106.3	2114.8	2120.2	2116.0	2111.7
15°	2139.6	2125.0	2102.9	2092.5	2093.9	2093.5	2087.3	2081.2
17.5°	2122.4	2103.2	2073.7	2056.4	2051.2	2045.2	2036.5	2027.9
20°	2094.9	2073.8	2041.4	2020.7	2011.7	2003.1	1995.6	1988.1
22.5°	2048.6	2028.4	1997.4	1976.3	1965.1	1955.2	1949.2	1943.2
25°	1961.7	1941.1	1911.0	1891.7	1883.3	1876.1	1872.8	1869.5
27.5°	1838.7	1822.3	1799.7	1783.1	1772.6	1763.6	1759.4	1755.2
30°	1747.8	1735.1	1718.1	1704.0	1692.7	1682.3	1674.3	1666.3
32.5°	1644.7	1635.4	1623.4	1611.1	1598.7	1587.4	1579.4	1571.4
35°	1477.6	1471.1	1460.8	1449.5	1437.2	1426.3	1419.2	1412.2
37.5°	1276.6	1271.3	1263.4	1252.9	1239.8	1228.4	1222.5	1216.6
40°	1126.2	1119.7	1110.7	1101.5	1092.1	1082.8	1073.9	1065.0
42.5°	972.4	968.3	959.8	948.0	932.9	920.7	917.0	913.4
45°	703.0	718.4	725.0	719.9	702.9	678.1	629.6	581.2
47.5°	415.5	451.6	482.4	473.6	425.4	376.3	325.0	273.8
50°	237.8	286.2	340.3	331.3	259.4	201.0	183.6	166.2
52.5°	144.8	183.7	231.0	227.9	174.4	131.8	121.9	112.0
55°	66.8	84.0	105.6	105.2	82.6	64.9	62.1	59.3
57.5°	30.3	37.9	46.4	46.6	38.6	31.5	26.8	22.2
60°	12.6	18.7	25.3	24.6	16.6	9.5	5.3	1.1
62.5°	3.3	8.3	14.5	14.3	7.8	2.7	1.4	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: P709318

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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)