

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: P709306

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

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709306
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-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: 8356.6 lumens
Efficiency: N/A
Efficacy: 116.7 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

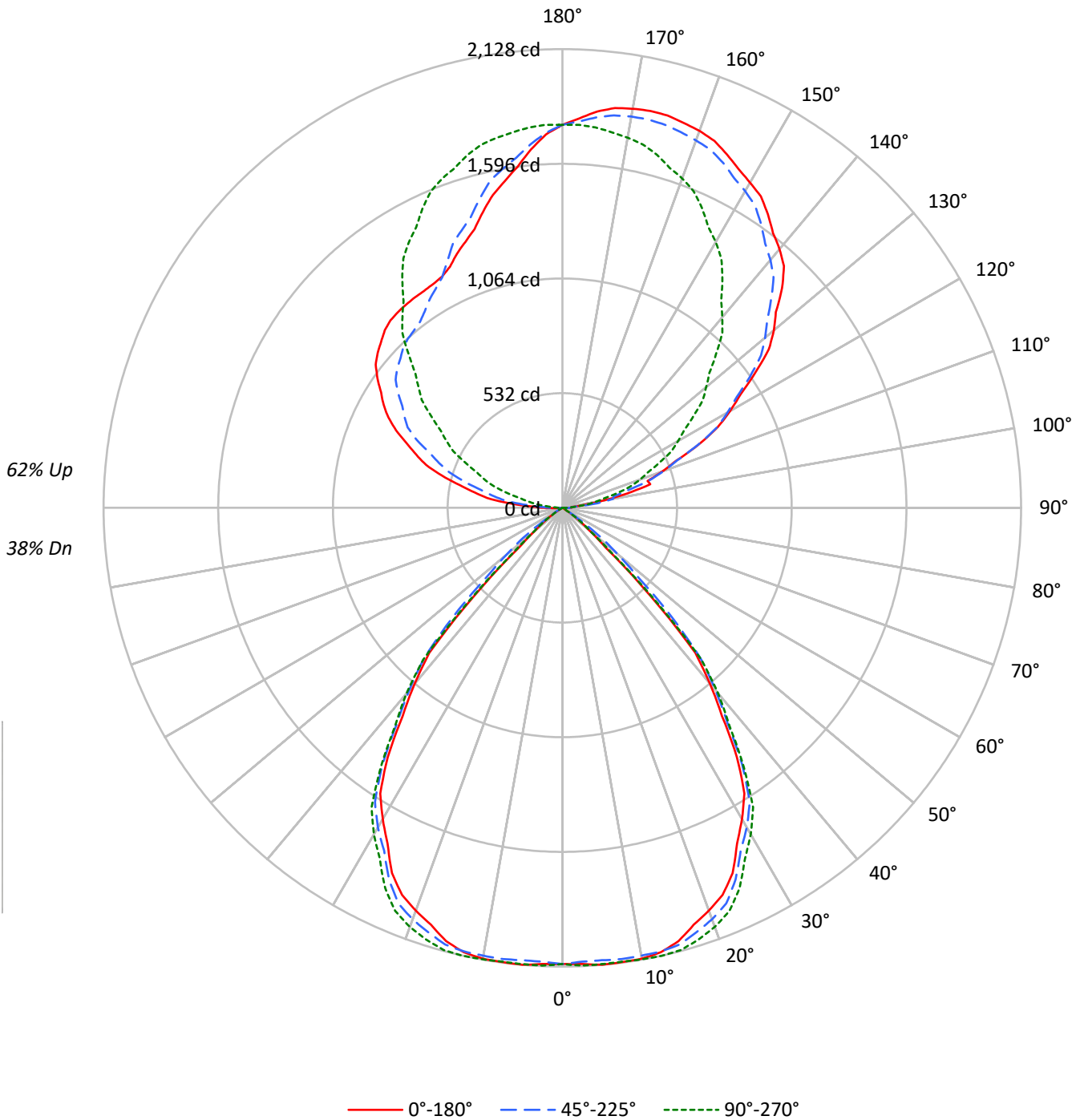
Input Watts (W): 71.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	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	2.4
10°-20°	592.7	7.1
20°-30°	872.0	10.4
30°-40°	891.2	10.7
40°-50°	513.4	6.1
50°-60°	88.4	1.1
60°-70°	3.2	0.0
70°-80°	0.0	0.0
80°-90°	9.5	0.1
90°-100°	141.0	1.7
100°-110°	411.6	4.9
110°-120°	672.3	8.0
120°-130°	853.9	10.2
130°-140°	913.7	10.9
140°-150°	853.2	10.2
150°-160°	702.2	8.4
160°-170°	471.0	5.6
170°-180°	167.2	2.0
0°-30°	1667.0	19.9
0°-40°	2558.2	30.6
0°-60°	3160.0	37.8
0°-90°	3172.6	38.0
90°-120°	1224.9	14.7
90°-150°	3845.7	46.0
90°-180°	5186.0	62.1
0°-180°	8356.6	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	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	

TEST NUMBER: P709306

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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	2087.4	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	1783.2	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	1253.0	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°	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°	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	2087.4	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	1783.2	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	1253.0	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°	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: P709306

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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)