

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: P709406

Luminaire Tested: DL2W-WB-M-150U-125D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

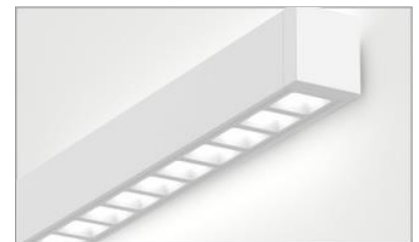
Test Information

Test Method: LM-79-2019
Report Number: P709406
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-6, G3-2104-222-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-M-150U-125D-930-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

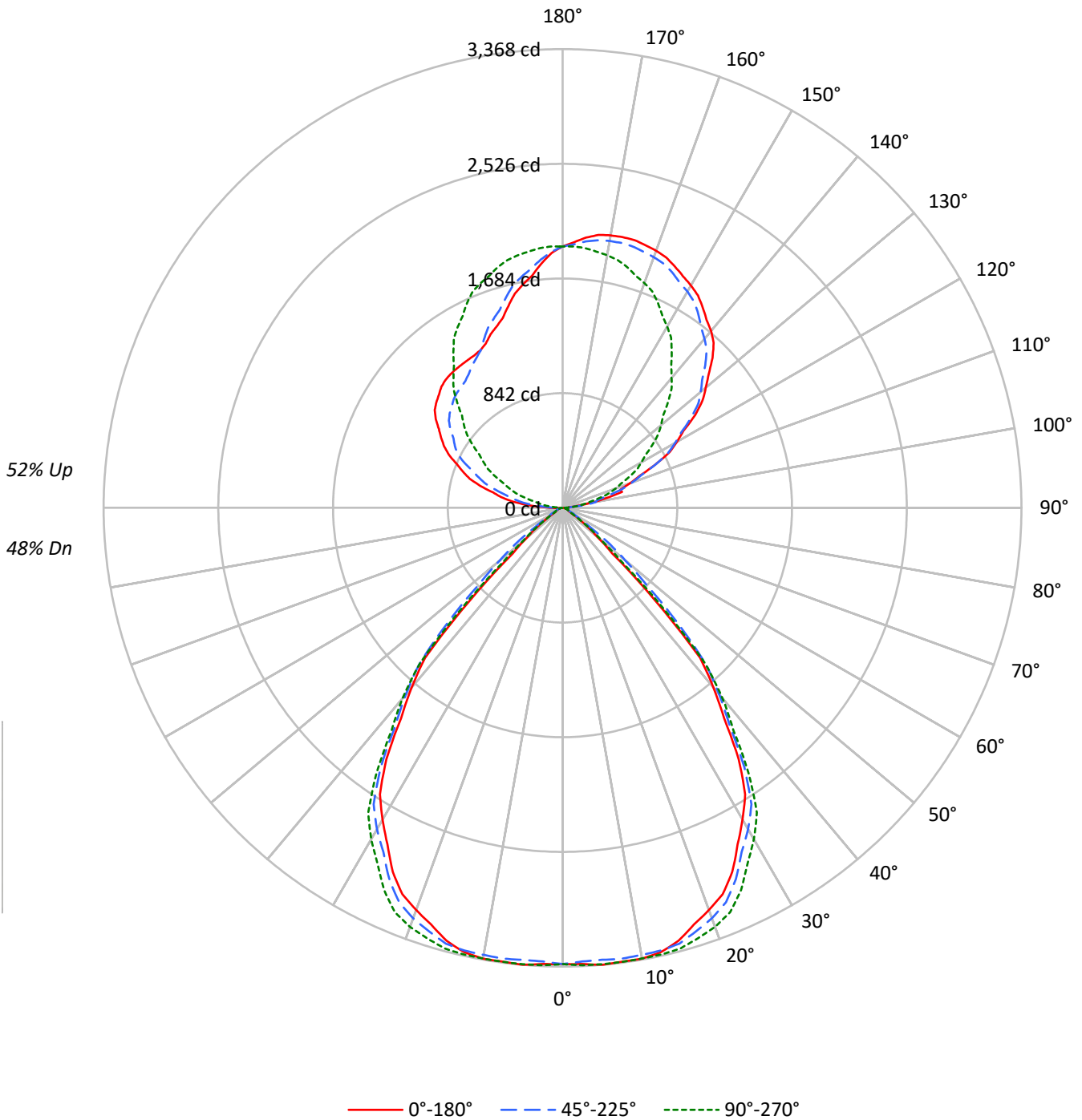
Lumens per Lamp: N/A
Luminaire Lumens: 10837.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.17
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 104.8
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



TEST NUMBER: P709406

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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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55	48				
1	99	95	92	89	91	88	85	83	75	73	71	62	61	60	51	50	49	44				
2	92	85	80	76	85	79	75	71	68	65	62	57	55	53	47	46	44	40				
3	85	77	71	66	78	72	66	62	61	58	54	52	49	47	43	42	40	36				
4	79	69	62	57	73	65	59	54	56	51	48	48	45	42	40	38	36	33				
5	73	63	56	50	67	59	52	48	51	46	43	44	40	38	37	35	33	30				
6	68	57	50	45	63	53	47	43	47	42	38	40	37	34	34	32	30	27				
7	63	52	45	40	59	49	43	38	43	38	34	37	34	31	32	29	27	25				
8	59	48	41	36	55	45	39	34	40	35	31	34	31	28	30	27	25	23				
9	55	44	37	33	51	41	35	31	37	32	28	32	28	26	28	25	23	21				
10	52	41	34	30	48	38	32	28	34	29	26	30	26	24	26	23	21	19				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	54077	54077	54077	54077	54077
5°	54579	53986	54501	53986	54579
10°	55100	54644	55085	54644	55100
15°	55005	55362	55968	55362	55005
20°	53983	55098	56244	55098	53983
25°	52533	53597	55184	53597	52533
30°	49264	50781	52361	50781	49264
35°	44415	45849	46952	45849	44415
40°	36320	37693	38545	37693	36320
45°	21866	27223	24103	27223	21866
50°	8518	15123	9530	15123	8518
55°	4569	6853	4622	6853	4569
60°	1986	3389	2170	3389	1986
65°	1872	2071	1945	2071	1872
70°	1770	1950	1902	1950	1770
75°	1678	1865	1859	1865	1678
80°	1609	1795	1785	1795	1609
85°	1593	1621	1593	1621	1593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 27414 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.0	3.0
10°-20°	935.4	8.6
20°-30°	1382.9	12.8
30°-40°	1428.9	13.2
40°-50°	859.8	7.9
50°-60°	206.4	1.9
60°-70°	56.4	0.5
70°-80°	31.4	0.3
80°-90°	17.8	0.2
90°-100°	151.8	1.4
100°-110°	443.3	4.1
110°-120°	725.6	6.7
120°-130°	921.7	8.5
130°-140°	986.6	9.1
140°-150°	921.4	8.5
150°-160°	758.3	7.0
160°-170°	508.6	4.7
170°-180°	180.6	1.7
0°-30°	2638.4	24.3
0°-40°	4067.3	37.5
0°-60°	5133.5	47.4
0°-90°	5239.1	48.3
90°-120°	1320.7	12.2
90°-150°	4150.5	38.3
90°-180°	5598.0	51.7
0°-180°	10837.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3349	3349	3349	3349	3349	
5°	3368	3331	3363	3331	3368	321
15°	3291	3312	3348	3312	3291	924
25°	2949	3009	3098	3009	2949	1346
35°	2253	2326	2382	2326	2253	1382
45°	958	1192	1056	1192	958	753
55°	162	243	164	243	162	158
65°	49	54	51	54	49	48
75°	27	30	30	30	27	29
85°	9	9	9	9	9	10
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°	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3
2.5°	3352.4	3354.8	3357.2	3347.5	3333.8	3332.8	3344.4	3354.1	3357.8	3361.6	3357.8
5°	3367.5	3368.4	3369.3	3353.8	3332.9	3329.0	3342.3	3353.4	3358.1	3362.7	3358.1
7.5°	3360.1	3363.4	3366.7	3355.4	3339.3	3336.9	3348.1	3357.2	3359.7	3362.2	3359.7
10°	3360.8	3362.1	3363.4	3350.6	3333.1	3332.9	3349.9	3362.4	3361.1	3359.9	3361.1
12.5°	3340.8	3344.2	3347.5	3339.1	3326.7	3331.8	3354.3	3369.8	3364.0	3358.3	3364.0
15°	3290.7	3297.1	3303.5	3304.8	3304.4	3319.7	3350.9	3371.4	3359.9	3348.3	3359.9
17.5°	3207.9	3216.0	3224.1	3234.9	3246.6	3272.7	3313.1	3339.8	3325.8	3311.8	3325.8
20°	3141.8	3149.9	3158.1	3173.2	3190.7	3222.7	3269.3	3300.7	3287.1	3273.4	3287.1
22.5°	3070.4	3077.1	3083.9	3098.9	3116.8	3151.5	3203.2	3238.8	3226.1	3213.5	3226.1
25°	2948.8	2952.6	2956.5	2971.5	2990.3	3026.8	3081.0	3119.0	3108.3	3097.6	3108.3
27.5°	2783.8	2790.3	2796.9	2812.3	2830.7	2864.7	2914.4	2950.5	2946.0	2941.5	2946.0
30°	2642.4	2654.7	2667.1	2686.5	2708.3	2739.3	2779.4	2809.4	2809.0	2808.5	2809.0
32.5°	2494.1	2509.5	2525.0	2545.2	2566.9	2593.3	2624.2	2648.1	2651.1	2654.1	2651.1
35°	2253.4	2265.7	2278.1	2295.9	2315.6	2336.7	2359.3	2376.9	2379.5	2382.1	2379.5
37.5°	1946.8	1959.2	1971.7	1987.5	2004.4	2023.6	2045.2	2061.6	2062.0	2062.4	2062.0
40°	1723.2	1730.8	1738.5	1756.5	1777.8	1798.9	1819.8	1834.8	1831.8	1828.8	1831.8
42.5°	1494.2	1499.1	1504.1	1522.9	1546.3	1567.0	1585.2	1593.3	1571.2	1549.1	1571.2
45°	957.6	1037.5	1117.3	1157.7	1185.1	1199.4	1200.6	1185.4	1120.5	1055.6	1120.5
47.5°	495.8	574.0	652.2	735.4	820.3	840.2	795.1	743.8	673.8	603.8	673.8
50°	339.1	369.8	400.5	487.0	592.0	612.1	547.2	485.3	432.3	379.4	432.3
52.5°	253.0	268.0	283.1	350.2	434.7	443.9	377.6	321.4	295.5	269.5	295.5
55°	162.3	168.7	175.1	204.9	242.5	244.4	210.7	183.0	173.6	164.2	173.6
57.5°	99.9	108.3	116.6	129.6	144.1	144.2	130.0	117.1	108.3	99.5	108.3
60°	61.5	69.2	76.8	89.6	104.2	105.7	94.1	83.5	75.3	67.2	75.3
62.5°	55.3	58.2	61.1	70.4	81.9	82.9	73.4	65.5	62.5	59.6	62.5
65°	49.0	49.8	50.7	52.2	53.9	54.5	54.1	53.5	52.2	50.9	52.2
67.5°	42.1	43.4	44.6	45.3	45.7	46.1	46.6	46.7	45.8	45.0	45.8
70°	37.5	38.7	40.0	40.7	41.1	41.5	41.9	42.0	41.2	40.3	41.2
72.5°	33.6	34.6	35.5	36.1	36.5	36.9	37.3	37.4	36.6	35.7	36.6
75°	26.9	27.7	28.6	29.1	29.6	30.2	31.1	31.5	30.6	29.8	30.6
77.5°	21.1	22.0	22.8	23.3	23.6	24.0	24.5	24.6	23.8	23.1	23.8
80°	17.3	18.1	19.0	19.2	19.2	19.4	19.9	20.1	19.6	19.2	19.6
82.5°	13.4	14.0	14.5	14.6	14.6	14.8	15.2	15.5	15.5	15.4	15.5
85°	8.6	8.6	8.6	8.6	8.6	8.9	9.3	9.5	9.1	8.6	9.1
87.5°	10.4	10.9	11.1	10.8	10.6	10.4	9.2	7.7	6.0	4.4	6.0
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	1298.4	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°	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3
2.5°	3354.1	3344.4	3332.8	3333.8	3347.5	3357.2	3354.8	3352.4
5°	3353.4	3342.3	3329.0	3332.9	3353.8	3369.3	3368.4	3367.5
7.5°	3357.2	3348.1	3336.9	3339.3	3355.4	3366.7	3363.4	3360.1
10°	3362.4	3349.9	3332.9	3333.1	3350.6	3363.4	3362.1	3360.8
12.5°	3369.8	3354.3	3331.8	3326.7	3339.1	3347.5	3344.2	3340.8
15°	3371.4	3350.9	3319.7	3304.4	3304.8	3303.5	3297.1	3290.7
17.5°	3339.8	3313.1	3272.7	3246.6	3234.9	3224.1	3216.0	3207.9
20°	3300.7	3269.3	3222.7	3190.7	3173.2	3158.1	3149.9	3141.8
22.5°	3238.8	3203.2	3151.5	3116.8	3098.9	3083.9	3077.1	3070.4
25°	3119.0	3081.0	3026.8	2990.3	2971.5	2956.5	2952.6	2948.8
27.5°	2950.5	2914.4	2864.7	2830.7	2812.3	2796.9	2790.3	2783.8
30°	2809.4	2779.4	2739.3	2708.3	2686.5	2667.1	2654.7	2642.4
32.5°	2648.1	2624.2	2593.3	2566.9	2545.2	2525.0	2509.5	2494.1
35°	2376.9	2359.3	2336.7	2315.6	2295.9	2278.1	2265.7	2253.4
37.5°	2061.6	2045.2	2023.6	2004.4	1987.5	1971.7	1959.2	1946.8
40°	1834.8	1819.8	1798.9	1777.8	1756.5	1738.5	1730.8	1723.2
42.5°	1593.3	1585.2	1567.0	1546.3	1522.9	1504.1	1499.1	1494.2
45°	1185.4	1200.6	1199.4	1185.1	1157.7	1117.3	1037.5	957.6
47.5°	743.8	795.1	840.2	820.3	735.4	652.2	574.0	495.8
50°	485.3	547.2	612.1	592.0	487.0	400.5	369.8	339.1
52.5°	321.4	377.6	443.9	434.7	350.2	283.1	268.0	253.0
55°	183.0	210.7	244.4	242.5	204.9	175.1	168.7	162.3
57.5°	117.1	130.0	144.2	144.1	129.6	116.6	108.3	99.9
60°	83.5	94.1	105.7	104.2	89.6	76.8	69.2	61.5
62.5°	65.5	73.4	82.9	81.9	70.4	61.1	58.2	55.3
65°	53.5	54.1	54.5	53.9	52.2	50.7	49.8	49.0
67.5°	46.7	46.6	46.1	45.7	45.3	44.6	43.4	42.1
70°	42.0	41.9	41.5	41.1	40.7	40.0	38.7	37.5
72.5°	37.4	37.3	36.9	36.5	36.1	35.5	34.6	33.6
75°	31.5	31.1	30.2	29.6	29.1	28.6	27.7	26.9
77.5°	24.6	24.5	24.0	23.6	23.3	22.8	22.0	21.1
80°	20.1	19.9	19.4	19.2	19.2	19.0	18.1	17.3
82.5°	15.5	15.2	14.8	14.6	14.6	14.5	14.0	13.4
85°	9.5	9.3	8.9	8.6	8.6	8.6	8.6	8.6
87.5°	7.7	9.6	12.3	14.4	17.1	19.3	20.0	19.2
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: P709406

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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)