

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: P709268

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

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709268
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-3, 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-075U-075D-930-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5660.0 lumens
Efficiency: N/A
Efficacy: 110.5 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: General Diffuse

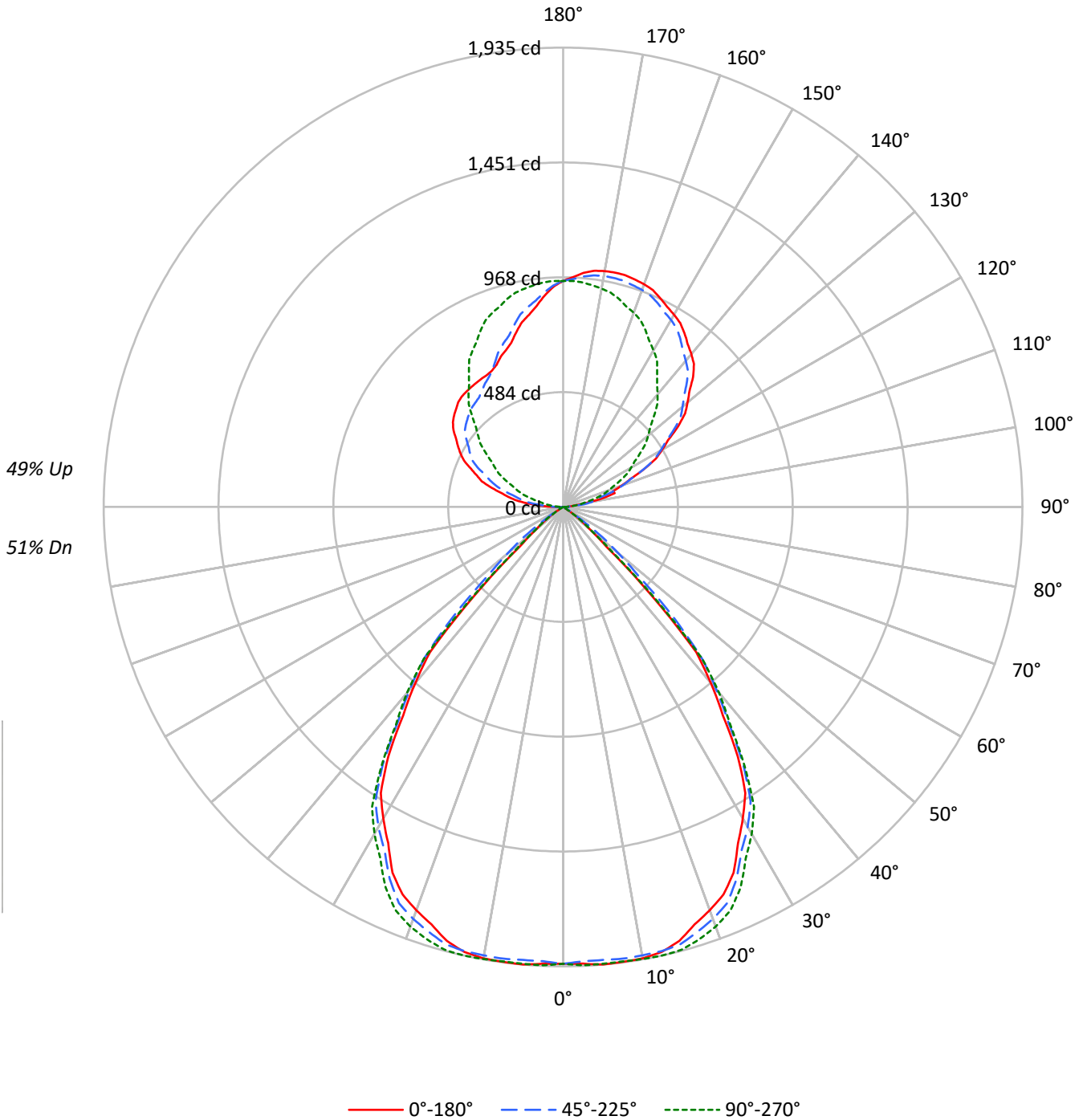
Input Watts (W): 51.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	100	96	93	90	92	89	87	84	76	75	73	64	63	62	53	53	52	47
2	93	87	82	77	86	81	76	73	69	66	64	59	57	55	50	48	47	43
3	86	78	72	67	80	73	68	63	63	59	56	54	52	49	46	44	43	39
4	80	71	64	59	74	66	60	56	58	53	50	50	47	44	43	40	39	35
5	74	64	57	52	69	60	54	50	53	48	45	46	43	40	40	37	35	32
6	69	59	51	46	64	55	49	44	49	44	40	42	39	36	37	34	32	29
7	64	54	46	42	60	50	44	40	45	40	36	39	36	33	34	31	29	27
8	60	49	42	37	56	46	40	36	41	36	33	36	33	30	32	29	27	25
9	56	45	39	34	53	43	37	33	38	33	30	34	30	27	30	27	25	23
10	53	42	35	31	49	40	34	30	35	31	27	32	28	25	28	25	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	31065	31065	31065	31065	31065
5°	31355	31041	31308	31041	31355
10°	31654	31445	31701	31445	31654
15°	31629	31880	32272	31880	31629
20°	31057	31728	32314	31728	31057
25°	30280	30797	31515	30797	30280
30°	28243	29004	29625	29004	28243
35°	25306	26076	26294	26076	25306
40°	20407	21196	21564	21196	20407
45°	12065	14998	12855	14998	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: 15052 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.0	3.3
10°-20°	538.9	9.5
20°-30°	792.8	14.0
30°-40°	810.3	14.3
40°-50°	466.8	8.2
50°-60°	80.3	1.4
60°-70°	2.9	0.1
70°-80°	0.0	0.0
80°-90°	5.1	0.1
90°-100°	75.8	1.3
100°-110°	221.0	3.9
110°-120°	360.6	6.4
120°-130°	457.6	8.1
130°-140°	489.7	8.7
140°-150°	457.2	8.1
150°-160°	376.3	6.6
160°-170°	252.3	4.5
170°-180°	89.6	1.6
0°-30°	1515.6	26.8
0°-40°	2325.9	41.1
0°-60°	2873.0	50.8
0°-90°	2880.9	50.9
90°-120°	657.4	11.6
90°-150°	2062.0	36.4
90°-180°	2780.0	49.1
0°-180°	5660.0	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	2
90°	21	19	3	26	41	10
95°	22	29	30	96	130	37
105°	225	169	140	252	310	210
115°	373	374	269	400	460	369
125°	592	572	398	498	564	525
135°	774	737	542	559	624	593
145°	892	862	692	595	638	558
155°	970	946	821	676	662	448
165°	1011	986	908	794	762	285
175°	990	974	949	907	894	95
180°	952	952	952	952	952	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0
2.5°	1925.5	1927.2	1928.9	1923.5	1915.6	1915.1	1921.9	1927.7	1930.1	1932.4	1930.1
5°	1934.6	1935.4	1936.3	1927.8	1916.3	1914.1	1921.4	1927.4	1929.5	1931.7	1929.5
7.5°	1932.3	1934.4	1936.5	1929.9	1920.4	1918.3	1923.4	1927.6	1929.1	1930.5	1929.1
10°	1930.7	1932.9	1935.0	1928.1	1918.3	1917.7	1926.2	1932.7	1933.2	1933.6	1933.2
12.5°	1919.9	1923.8	1927.6	1922.8	1915.0	1917.8	1931.1	1940.4	1937.8	1935.1	1937.8
15°	1892.2	1897.8	1903.3	1903.8	1902.5	1911.9	1932.0	1945.3	1938.0	1930.7	1938.0
17.5°	1843.7	1851.6	1859.4	1864.9	1869.7	1885.4	1912.2	1929.7	1919.4	1909.2	1919.4
20°	1807.5	1814.4	1821.2	1829.0	1837.1	1856.0	1885.5	1904.6	1892.6	1880.7	1892.6
22.5°	1766.7	1772.2	1777.7	1786.7	1796.8	1816.0	1844.2	1862.5	1851.6	1840.6	1851.6
25°	1699.7	1702.7	1705.7	1712.2	1719.9	1737.5	1764.8	1783.6	1776.3	1769.0	1776.3
27.5°	1595.8	1599.6	1603.5	1611.6	1621.2	1636.3	1656.8	1671.7	1669.6	1667.6	1669.6
30°	1514.9	1522.2	1529.5	1539.0	1549.3	1562.1	1577.5	1589.0	1589.0	1589.0	1589.0
32.5°	1428.7	1436.0	1443.2	1453.5	1464.8	1475.9	1486.9	1495.4	1496.4	1497.4	1496.4
35°	1283.9	1290.4	1296.8	1306.7	1317.8	1328.1	1337.5	1343.4	1338.7	1334.0	1338.7
37.5°	1106.1	1111.5	1116.9	1127.2	1139.2	1148.7	1155.8	1160.7	1158.9	1157.1	1158.9
40°	968.2	976.4	984.5	992.9	1001.5	1009.8	1018.0	1024.0	1023.5	1023.1	1023.5
42.5°	830.4	833.8	837.1	848.2	861.9	872.6	880.4	884.1	875.4	866.8	875.4
45°	528.4	572.5	616.5	639.1	654.5	659.2	653.2	639.2	601.1	563.0	601.1
47.5°	248.9	295.5	342.1	386.7	430.6	438.6	410.6	377.8	330.4	283.0	330.4
50°	151.1	166.9	182.8	235.8	301.3	309.4	260.2	216.2	188.0	159.8	188.0
52.5°	101.8	110.8	119.8	158.6	207.2	210.1	167.0	131.6	119.1	106.6	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°	4.2	4.2	4.0	3.8	3.8	3.7	3.1	2.3	1.3	0.6	1.3
90°	21.2	21.2	20.2	19.2	19.2	18.3	15.4	11.5	6.7	2.9	6.7
92.5°	25.0	25.0	24.0	23.9	22.3	20.6	16.9	16.9	16.7	10.6	18.3
95°	22.1	22.1	22.1	22.1	26.0	32.7	48.1	49.1	32.7	29.8	42.3
97.5°	50.6	53.5	59.8	71.2	87.3	90.4	85.6	63.9	61.2	56.9	77.5
100°	102.9	105.8	110.6	125.0	136.6	113.5	89.4	88.5	82.7	80.8	102.9
102.5°	169.1	169.7	172.9	177.4	137.3	124.3	118.7	114.6	105.8	104.6	126.8
105°	225.1	218.3	187.6	168.3	169.3	169.3	165.4	157.7	141.4	140.4	165.4
107.5°	220.3	219.5	220.6	223.5	228.5	227.4	222.9	202.4	183.1	178.7	201.2
110°	262.6	262.6	264.5	267.4	269.3	267.4	260.6	234.7	211.6	204.9	225.1

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	306.4	304.9	306.8	308.9	313.2	307.4	296.0	266.2	240.1	230.3	250.5
115°	373.2	373.2	374.1	374.1	375.1	372.2	349.1	318.4	283.7	269.3	286.6
117.5°	441.1	439.2	440.3	441.5	437.6	429.9	403.2	367.4	328.5	305.5	319.1
120°	481.9	483.8	481.9	483.8	479.9	468.4	442.4	402.0	357.8	330.9	341.4
122.5°	524.2	525.3	524.9	524.6	519.9	506.9	476.3	434.3	390.9	357.8	362.2
125°	591.5	586.7	584.8	583.8	580.0	564.6	532.8	489.6	438.6	398.2	392.4
127.5°	647.9	645.8	641.7	639.6	633.6	615.0	582.5	540.7	484.7	439.0	426.1
130°	684.8	685.8	681.0	678.1	667.5	647.3	615.5	576.1	519.4	467.4	449.2
132.5°	721.7	720.4	718.7	710.4	701.3	679.6	650.2	609.2	551.7	497.4	472.2
135°	774.2	771.4	766.6	758.9	747.3	726.2	698.3	657.9	600.2	541.5	506.9
137.5°	816.0	813.7	808.7	800.6	787.5	769.2	741.2	705.2	649.8	587.8	544.2
140°	840.6	840.6	834.8	825.2	813.7	795.4	770.4	732.9	679.0	619.4	570.3
142.5°	862.9	862.9	856.4	849.1	836.8	820.0	798.1	760.6	708.3	649.4	597.3
145°	892.5	892.5	888.7	882.9	869.5	854.1	835.8	798.3	750.2	691.5	639.6
147.5°	918.7	920.8	916.0	911.4	900.8	882.7	867.3	831.4	787.5	735.6	682.3
150°	934.9	937.8	932.9	929.1	918.5	901.2	885.8	852.2	809.8	761.7	710.8
152.5°	950.3	952.4	949.1	945.3	933.1	915.8	902.7	871.4	832.9	787.1	735.4
155°	969.5	974.3	970.5	965.6	954.1	937.8	926.2	897.4	861.8	821.4	777.1
157.5°	989.1	991.2	987.4	981.4	970.6	956.6	944.3	917.7	886.8	852.0	813.3
160°	998.3	1001.2	997.4	990.7	979.1	966.6	955.1	930.1	902.2	870.4	834.8
162.5°	1004.5	1008.2	1004.3	998.3	984.5	973.5	963.5	940.8	914.5	885.8	854.1
165°	1010.8	1014.7	1011.8	1005.1	990.7	982.0	973.3	954.1	931.0	907.9	881.0
167.5°	1011.2	1016.0	1012.4	1006.8	992.4	983.9	977.6	961.0	942.4	924.7	903.7
170°	1008.9	1013.7	1010.8	1006.0	991.6	983.9	979.1	965.6	949.3	933.9	917.6
172.5°	1003.5	1007.6	1005.5	1000.7	987.0	980.8	978.3	966.4	953.1	941.6	927.6
175°	989.7	995.5	991.6	987.8	976.2	972.4	973.3	965.6	956.0	949.3	940.6
177.5°	969.1	972.2	971.4	969.1	960.6	960.6	963.7	959.1	956.0	952.9	949.1
180°	952.2	952.2	952.2	952.2	952.2	952.2	952.2	952.2	952.2	952.2	952.2

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0
2.5°	1927.7	1921.9	1915.1	1915.6	1923.5	1928.9	1927.2	1925.5
5°	1927.4	1921.4	1914.1	1916.3	1927.8	1936.3	1935.4	1934.6
7.5°	1927.6	1923.4	1918.3	1920.4	1929.9	1936.5	1934.4	1932.3
10°	1932.7	1926.2	1917.7	1918.3	1928.1	1935.0	1932.9	1930.7
12.5°	1940.4	1931.1	1917.8	1915.0	1922.8	1927.6	1923.8	1919.9
15°	1945.3	1932.0	1911.9	1902.5	1903.8	1903.3	1897.8	1892.2
17.5°	1929.7	1912.2	1885.4	1869.7	1864.9	1859.4	1851.6	1843.7
20°	1904.6	1885.5	1856.0	1837.1	1829.0	1821.2	1814.4	1807.5
22.5°	1862.5	1844.2	1816.0	1796.8	1786.7	1777.7	1772.2	1766.7
25°	1783.6	1764.8	1737.5	1719.9	1712.2	1705.7	1702.7	1699.7
27.5°	1671.7	1656.8	1636.3	1621.2	1611.6	1603.5	1599.6	1595.8
30°	1589.0	1577.5	1562.1	1549.3	1539.0	1529.5	1522.2	1514.9
32.5°	1495.4	1486.9	1475.9	1464.8	1453.5	1443.2	1436.0	1428.7
35°	1343.4	1337.5	1328.1	1317.8	1306.7	1296.8	1290.4	1283.9
37.5°	1160.7	1155.8	1148.7	1139.2	1127.2	1116.9	1111.5	1106.1
40°	1024.0	1018.0	1009.8	1001.5	992.9	984.5	976.4	968.2
42.5°	884.1	880.4	872.6	861.9	848.2	837.1	833.8	830.4
45°	639.2	653.2	659.2	654.5	639.1	616.5	572.5	528.4
47.5°	377.8	410.6	438.6	430.6	386.7	342.1	295.5	248.9
50°	216.2	260.2	309.4	301.3	235.8	182.8	166.9	151.1
52.5°	131.6	167.0	210.1	207.2	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°	2.1	3.5	4.4	5.8	7.1	7.9	8.7	8.3
90°	10.6	17.3	22.1	28.9	35.6	39.4	43.3	41.4
92.5°	26.0	37.3	44.4	55.8	64.1	71.0	74.1	73.7
95°	59.6	75.0	89.4	102.9	116.4	126.0	131.8	129.8
97.5°	94.6	119.5	137.9	156.0	171.0	180.0	185.8	189.7
100°	119.3	143.3	170.2	187.6	204.9	215.4	225.1	228.9
102.5°	149.3	169.5	196.4	219.1	237.9	249.3	257.4	261.2
105°	191.4	216.4	239.5	263.5	283.7	298.2	306.8	309.7
107.5°	232.4	259.9	282.6	307.4	326.0	342.0	352.6	358.8
110°	257.8	287.6	316.4	336.6	356.8	371.3	381.8	385.7

TEST NUMBER: P709268

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	283.9	314.5	344.9	367.4	387.6	402.0	414.1	419.5
115°	317.4	351.1	384.7	414.5	432.8	446.3	454.9	459.7
117.5°	351.6	386.3	417.8	449.0	469.0	479.4	483.4	486.9
120°	373.2	407.8	438.6	467.4	490.5	504.0	508.8	510.7
122.5°	391.6	425.5	457.8	485.1	507.4	524.0	531.9	533.8
125°	417.4	452.0	484.7	510.7	533.8	550.1	558.8	563.6
127.5°	441.8	473.6	508.2	536.3	557.5	572.3	580.7	584.6
130°	458.8	486.7	521.3	550.1	571.3	587.7	595.4	599.2
132.5°	476.5	498.2	531.3	561.7	583.6	598.4	606.9	610.7
135°	503.0	515.5	543.4	575.2	598.2	612.7	620.4	624.2
137.5°	531.3	536.1	554.0	582.8	606.9	622.1	629.0	631.5
140°	552.1	549.2	561.7	586.7	610.7	625.2	632.9	633.8
142.5°	573.6	566.9	571.7	591.3	612.3	626.7	634.4	636.1
145°	608.8	594.4	589.6	601.1	615.5	629.0	635.7	637.7
147.5°	644.2	625.6	612.1	615.7	623.2	632.1	638.6	640.0
150°	670.4	646.3	629.0	628.1	630.9	636.7	642.5	641.5
152.5°	695.0	670.2	648.3	642.7	642.5	645.2	647.9	647.7
155°	734.8	706.9	681.0	670.4	664.6	662.7	662.7	661.7
157.5°	772.9	744.4	716.9	702.1	693.5	688.8	687.5	685.4
160°	798.3	767.5	741.5	725.2	716.5	708.8	706.0	703.1
162.5°	822.1	793.7	764.6	749.0	739.6	732.7	729.8	725.4
165°	855.0	832.0	802.1	785.8	775.2	769.4	765.6	761.7
167.5°	883.3	864.1	839.6	821.8	814.8	808.3	804.6	797.7
170°	900.2	884.9	862.7	846.4	842.5	836.8	830.0	822.3
172.5°	914.9	902.5	882.7	871.8	867.9	862.2	860.0	853.9
175°	932.9	926.2	911.8	903.1	903.1	902.2	899.3	893.5
177.5°	946.8	944.5	936.0	931.4	934.5	934.5	933.7	928.3
180°	952.2	952.2	952.2	952.2	952.2	952.2	952.2	952.2

(END OF REPORT)