

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: P709271

Luminaire Tested: DL2W-BB-M-075U-100D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

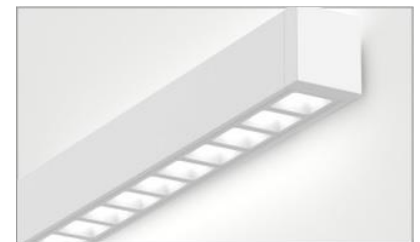
**Test Information**

Test Method: LM-79-2019  
Report Number: P709271  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-3, G3-2104-222-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: DL2W-BB-M-075U-100D-930-UNV-STD-W-WM-4  
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6624.6 lumens  
Efficiency: N/A  
Efficacy: 107.4 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

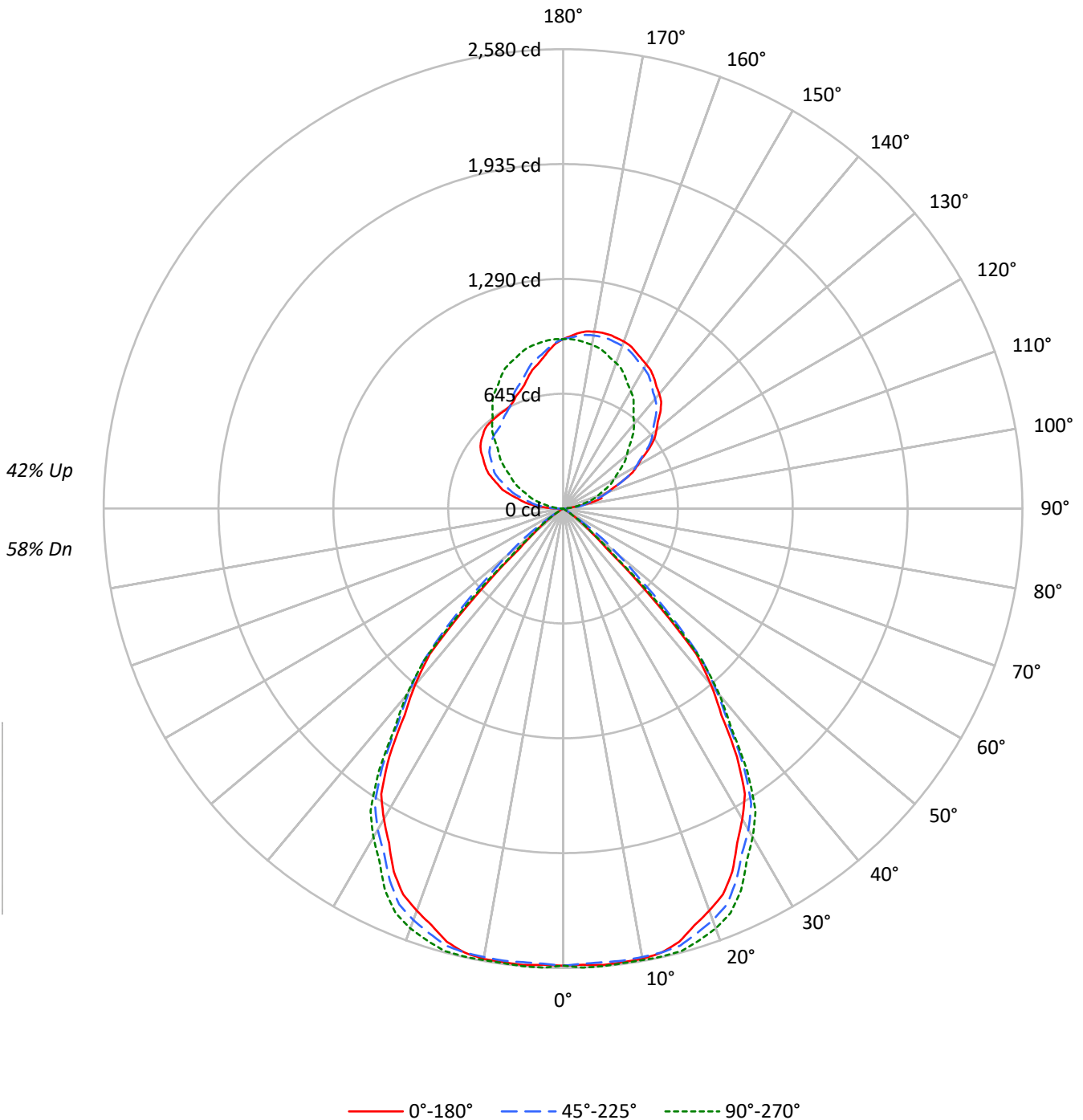
Input Watts (W): 61.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P709271

CATALOG NUMBER: DL2W-BB-M-075U-100D-930-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot



TEST NUMBER: P709271

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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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64	64	64	64	58	
1	102	98	95	92	95	92	89	87	80	78	77	70	68	67	60	59	58	58	58	58	53	
2	95	89	84	80	89	83	79	75	73	70	68	64	62	60	55	54	53	53	53	53	49	
3	88	80	74	69	82	76	70	66	67	63	60	59	56	54	51	50	48	48	48	48	44	
4	82	73	66	61	77	69	63	58	61	57	53	54	51	48	48	45	43	43	43	43	40	
5	76	66	59	54	71	63	57	52	56	51	48	50	46	44	44	42	40	40	40	40	37	
6	71	61	54	48	67	57	51	47	52	47	43	46	42	40	41	38	36	36	36	36	34	
7	66	56	48	44	62	53	47	42	48	43	39	43	39	36	38	35	33	33	33	33	31	
8	62	51	44	39	58	49	42	38	44	39	35	40	36	33	36	33	30	30	30	30	28	
9	58	47	40	36	55	45	39	35	41	36	32	37	33	30	33	30	28	28	28	28	26	
10	55	44	37	33	52	42	36	32	38	33	30	34	31	28	31	28	26	26	26	26	24	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	41448	41448	41448	41448	41448
5°	41700	41453	41809	41453	41700
10°	42104	41932	42214	41932	42104
15°	42108	42473	42992	42473	42108
20°	41283	42251	43101	42251	41283
25°	40078	41020	42136	41020	40078
30°	37531	38810	39720	38810	37531
35°	33557	34912	35585	34912	33557
40°	27267	28355	28869	28355	27267
45°	15769	19792	17571	19792	15769
50°	5122	10349	5604	10349	5122
55°	2004	3689	1951	3689	2004
60°	32	1019	155	1019	32
65°	0	65	0	65	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: 19870 cd/sqm

TEST NUMBER: P709271

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.3	3.7
10°-20°	717.5	10.8
20°-30°	1057.5	16.0
30°-40°	1082.9	16.3
40°-50°	624.0	9.4
50°-60°	109.1	1.6
60°-70°	4.2	0.1
70°-80°	0.0	0.0
80°-90°	5.1	0.1
90°-100°	75.8	1.1
100°-110°	221.0	3.3
110°-120°	360.6	5.4
120°-130°	457.6	6.9
130°-140°	489.7	7.4
140°-150°	457.2	6.9
150°-160°	376.3	5.7
160°-170°	252.3	3.8
170°-180°	89.6	1.4
0°-30°	2020.3	30.5
0°-40°	3103.2	46.8
0°-60°	3836.3	57.9
0°-90°	3845.5	58.0
90°-120°	657.4	9.9
90°-150°	2062.0	31.1
90°-180°	2780.0	42.0
0°-180°	6624.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2567	2567	2567	2567	2567	
5°	2573	2558	2580	2558	2573	245
15°	2519	2541	2572	2541	2519	707
25°	2250	2303	2365	2303	2250	1027
35°	1702	1771	1805	1771	1702	1045
45°	691	867	770	867	691	543
55°	71	131	69	131	71	73
65°	0	2	0	2	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°	2567.1	2567.1	2567.1	2567.1	2567.1	2567.1	2567.1	2567.1	2567.1	2567.1	2567.1
2.5°	2564.8	2568.9	2573.0	2567.1	2557.9	2557.7	2566.6	2574.1	2577.1	2580.2	2577.1
5°	2572.9	2577.2	2581.5	2572.3	2558.6	2556.7	2566.5	2574.5	2577.1	2579.6	2577.1
7.5°	2569.6	2574.5	2579.4	2572.5	2561.8	2560.2	2567.8	2573.6	2574.2	2574.8	2574.2
10°	2568.1	2572.0	2575.8	2568.4	2557.3	2558.0	2570.4	2579.1	2577.0	2574.8	2577.0
12.5°	2554.3	2559.8	2565.4	2560.2	2551.5	2556.1	2573.9	2586.1	2581.3	2576.4	2581.3
15°	2519.1	2525.9	2532.7	2534.4	2534.4	2547.5	2573.6	2590.8	2581.4	2572.0	2581.4
17.5°	2454.2	2463.4	2472.5	2481.3	2489.9	2510.7	2543.5	2565.3	2554.2	2543.1	2554.2
20°	2402.7	2412.5	2422.3	2434.1	2446.5	2471.5	2509.1	2534.1	2521.3	2508.5	2521.3
22.5°	2346.5	2356.3	2366.2	2379.2	2393.3	2419.5	2457.8	2483.4	2470.9	2458.5	2470.9
25°	2249.7	2260.9	2272.0	2281.5	2290.5	2314.6	2353.9	2381.4	2373.3	2365.2	2373.3
27.5°	2117.0	2127.0	2137.0	2151.3	2167.0	2190.2	2220.7	2242.4	2237.6	2232.8	2237.6
30°	2013.1	2025.5	2037.9	2053.8	2070.9	2092.5	2118.6	2137.3	2133.9	2130.5	2133.9
32.5°	1900.8	1912.5	1924.2	1940.2	1957.7	1975.8	1994.7	2009.2	2010.6	2012.0	2010.6
35°	1702.5	1715.3	1728.1	1745.4	1764.2	1778.3	1787.7	1796.0	1800.7	1805.4	1800.7
37.5°	1461.4	1474.8	1488.3	1503.8	1520.0	1532.9	1542.3	1549.5	1550.4	1551.3	1550.4
40°	1293.7	1302.6	1311.6	1324.8	1339.3	1351.3	1360.7	1367.9	1368.8	1369.7	1368.8
42.5°	1107.5	1113.0	1118.6	1133.4	1151.4	1166.1	1177.5	1182.1	1165.8	1149.6	1165.8
45°	690.6	753.4	816.3	845.5	863.4	870.2	866.0	852.4	810.9	769.5	810.9
47.5°	327.8	393.9	460.0	520.2	578.4	588.4	550.3	507.9	452.4	397.0	452.4
50°	203.9	226.6	249.2	319.3	405.3	418.7	359.7	305.2	264.2	223.1	264.2
52.5°	137.0	148.3	159.7	212.6	279.4	285.5	231.0	185.1	165.3	145.4	165.3
55°	71.2	74.6	78.0	101.0	130.5	131.6	104.2	82.1	75.7	69.3	75.7
57.5°	24.0	30.8	37.6	47.3	58.1	58.0	46.9	37.1	31.0	24.8	31.0
60°	1.0	5.7	10.4	19.9	31.0	32.1	23.1	15.1	9.9	4.8	9.9
62.5°	1.0	1.9	2.8	9.1	17.1	17.5	10.3	4.5	3.1	1.7	3.1
65°	0.0	0.4	0.9	1.3	1.7	1.7	1.3	0.9	0.4	0.0	0.4
67.5°	0.0	0.0	0.0	0.3	0.6	0.8	0.8	0.7	0.3	0.0	0.3
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°	2567.1	2567.1	2567.1	2567.1	2567.1	2567.1	2567.1	2567.1
2.5°	2574.1	2566.6	2557.7	2557.9	2567.1	2573.0	2568.9	2564.8
5°	2574.5	2566.5	2556.7	2558.6	2572.3	2581.5	2577.2	2572.9
7.5°	2573.6	2567.8	2560.2	2561.8	2572.5	2579.4	2574.5	2569.6
10°	2579.1	2570.4	2558.0	2557.3	2568.4	2575.8	2572.0	2568.1
12.5°	2586.1	2573.9	2556.1	2551.5	2560.2	2565.4	2559.8	2554.3
15°	2590.8	2573.6	2547.5	2534.4	2534.4	2532.7	2525.9	2519.1
17.5°	2565.3	2543.5	2510.7	2489.9	2481.3	2472.5	2463.4	2454.2
20°	2534.1	2509.1	2471.5	2446.5	2434.1	2422.3	2412.5	2402.7
22.5°	2483.4	2457.8	2419.5	2393.3	2379.2	2366.2	2356.3	2346.5
25°	2381.4	2353.9	2314.6	2290.5	2281.5	2272.0	2260.9	2249.7
27.5°	2242.4	2220.7	2190.2	2167.0	2151.3	2137.0	2127.0	2117.0
30°	2137.3	2118.6	2092.5	2070.9	2053.8	2037.9	2025.5	2013.1
32.5°	2009.2	1994.7	1975.8	1957.7	1940.2	1924.2	1912.5	1900.8
35°	1796.0	1787.7	1778.3	1764.2	1745.4	1728.1	1715.3	1702.5
37.5°	1549.5	1542.3	1532.9	1520.0	1503.8	1488.3	1474.8	1461.4
40°	1367.9	1360.7	1351.3	1339.3	1324.8	1311.6	1302.6	1293.7
42.5°	1182.1	1177.5	1166.1	1151.4	1133.4	1118.6	1113.0	1107.5
45°	852.4	866.0	870.2	863.4	845.5	816.3	753.4	690.6
47.5°	507.9	550.3	588.4	578.4	520.2	460.0	393.9	327.8
50°	305.2	359.7	418.7	405.3	319.3	249.2	226.6	203.9
52.5°	185.1	231.0	285.5	279.4	212.6	159.7	148.3	137.0
55°	82.1	104.2	131.6	130.5	101.0	78.0	74.6	71.2
57.5°	37.1	46.9	58.0	58.1	47.3	37.6	30.8	24.0
60°	15.1	23.1	32.1	31.0	19.9	10.4	5.7	1.0
62.5°	4.5	10.3	17.5	17.1	9.1	2.8	1.9	1.0
65°	0.9	1.3	1.7	1.7	1.3	0.9	0.4	0.0
67.5°	0.7	0.8	0.8	0.6	0.3	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: P709271

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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)