

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: P709380

Luminaire Tested: DL2W-WB-M-100U-100D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

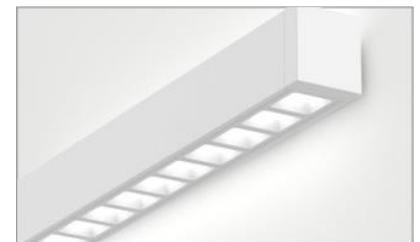
**Test Information**

Test Method: LM-79-2019  
Report Number: P709380  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-4, G3-2104-222-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: DL2W-WB-M-100U-100D-935-UNV-STD-W-WM-4  
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8235.6 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.18  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

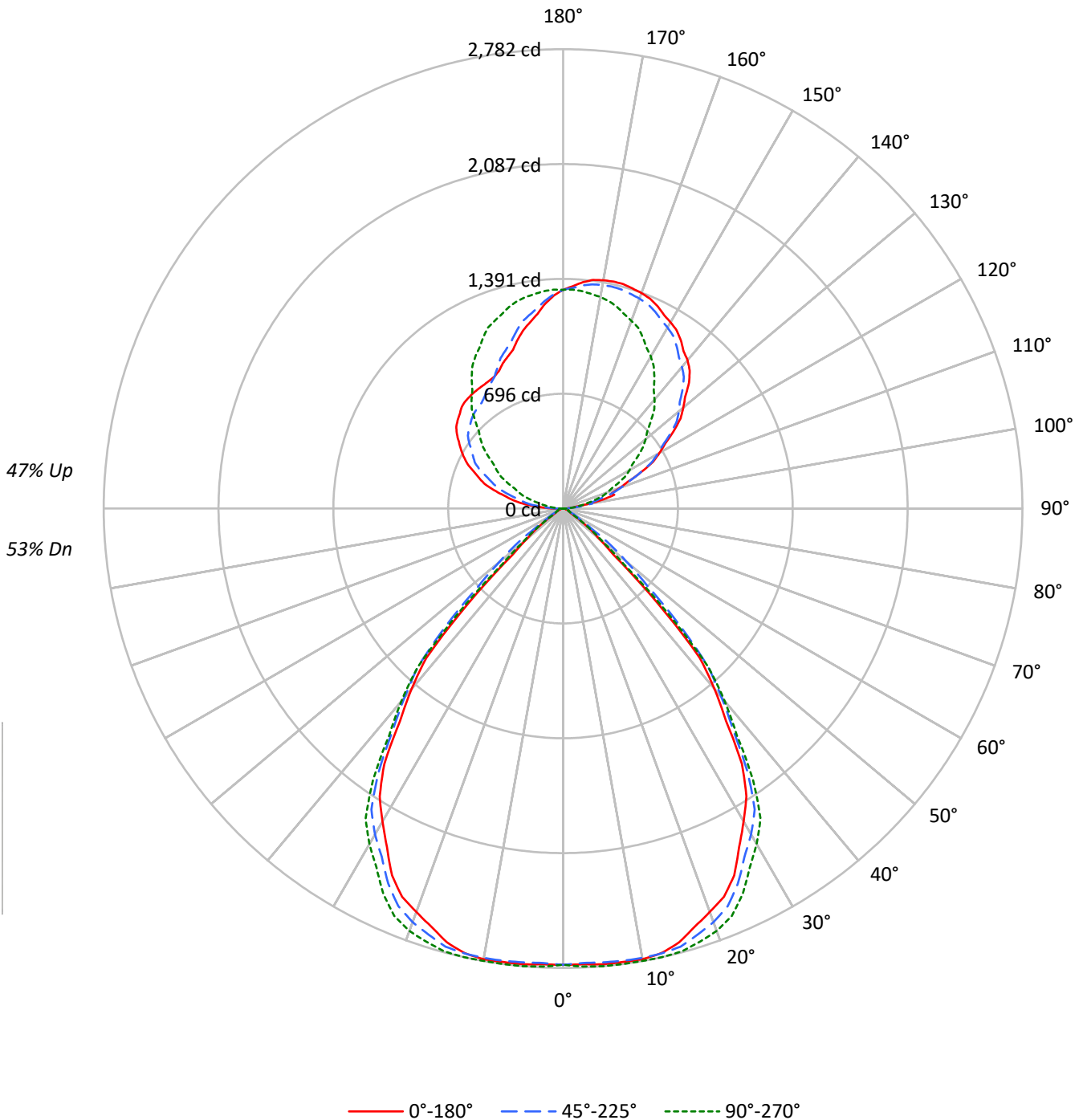
Input Watts (W): 71.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P709380

CATALOG NUMBER: DL2W-WB-M-100U-100D-935-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot



TEST NUMBER: P709380

CATALOG NUMBER: DL2W-WB-M-100U-100D-935-UNV-STD-W-WM-4

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53		
1	100	97	93	91	93	90	87	85	77	75	74	66	64	63	55	54	53	48		
2	93	87	82	77	86	81	77	73	70	67	64	60	58	56	51	49	48	44		
3	86	78	72	67	80	73	68	63	64	60	56	55	52	50	47	45	43	40		
4	80	71	64	59	74	66	60	56	58	54	50	50	47	45	43	41	39	36		
5	74	64	57	52	69	60	54	49	53	48	45	46	43	40	40	38	36	33		
6	69	58	51	46	64	55	49	44	49	44	40	43	39	36	37	34	32	30		
7	64	53	46	41	60	50	44	39	45	40	36	39	36	33	35	32	30	27		
8	60	49	42	37	56	46	40	36	41	36	33	37	33	30	32	29	27	25		
9	56	45	38	34	53	43	37	32	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°	44603	44603	44603	44603	44603
5°	44903	44704	45081	44704	44903
10°	45439	45293	45602	45293	45439
15°	45458	45911	46410	45911	45458
20°	44665	45782	46761	45782	44665
25°	43675	44648	45865	44648	43675
30°	40766	42456	43712	42456	40766
35°	37207	38409	39551	38409	37207
40°	30070	31493	32115	31493	30070
45°	18493	22761	20569	22761	18493
50°	7257	12636	8061	12636	7257
55°	3800	5754	3800	5754	3800
60°	1647	2827	1808	2827	1647
65°	1528	1706	1643	1706	1528
70°	1463	1610	1558	1610	1463
75°	1435	1560	1560	1560	1435
80°	1395	1497	1488	1497	1395
85°	1297	1315	1297	1315	1297

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 60°  
 Vertical Angle: 45°  
 Luminance: 22989 cd/sqm

TEST NUMBER: P709380

CATALOG NUMBER: DL2W-WB-M-100U-100D-935-UNV-STD-W-WM-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.6	3.2
10°-20°	775.5	9.4
20°-30°	1151.0	14.0
30°-40°	1195.5	14.5
40°-50°	719.4	8.7
50°-60°	172.3	2.1
60°-70°	46.7	0.6
70°-80°	26.2	0.3
80°-90°	13.7	0.2
90°-100°	105.4	1.3
100°-110°	307.9	3.7
110°-120°	502.1	6.1
120°-130°	637.2	7.7
130°-140°	681.7	8.3
140°-150°	636.5	7.7
150°-160°	523.7	6.4
160°-170°	351.2	4.3
170°-180°	124.7	1.5
0°-30°	2191.1	26.6
0°-40°	3386.6	41.1
0°-60°	4278.3	51.9
0°-90°	4365.1	53.0
90°-120°	915.4	11.1
90°-150°	2870.9	34.9
90°-180°	3870.0	47.0
0°-180°	8235.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2762	2762	2762	2762	2762	
5°	2770	2758	2782	2758	2770	264
15°	2720	2747	2776	2747	2720	764
25°	2452	2506	2574	2506	2452	1116
35°	1888	1949	2007	1949	1888	1150
45°	810	997	901	997	810	627
55°	135	204	135	204	135	132
65°	40	45	43	45	40	40
75°	23	25	25	25	23	24
85°	7	7	7	7	7	8
90°	28	26	4	36	63	13
95°	31	40	41	136	181	51
105°	321	234	196	350	434	295
115°	522	519	373	556	638	514
125°	818	796	553	694	785	729
135°	1079	1024	752	779	869	826
145°	1244	1200	964	828	888	777
155°	1353	1317	1144	940	919	623
165°	1408	1373	1264	1104	1060	397
175°	1376	1358	1322	1264	1245	132
180°	1325	1325	1325	1325	1325	

TEST NUMBER: P709380

CATALOG NUMBER: DL2W-WB-M-100U-100D-935-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5
2.5°	2762.5	2766.8	2771.0	2764.6	2754.7	2754.2	2763.0	2770.4	2773.3	2776.1	2773.3
5°	2770.5	2775.4	2780.3	2771.8	2759.0	2757.4	2767.2	2775.3	2778.4	2781.5	2778.4
7.5°	2769.9	2775.3	2780.7	2773.6	2762.2	2762.3	2774.0	2782.7	2782.5	2782.3	2782.5
10°	2771.5	2775.5	2779.5	2772.5	2761.8	2763.4	2777.2	2786.8	2784.2	2781.5	2784.2
12.5°	2757.1	2763.2	2769.4	2765.0	2757.2	2762.0	2779.3	2791.2	2786.7	2782.3	2786.7
15°	2719.5	2728.4	2737.3	2739.8	2740.3	2753.0	2777.8	2794.3	2785.4	2776.5	2785.4
17.5°	2653.9	2664.4	2674.9	2685.1	2695.1	2717.0	2750.6	2773.1	2762.1	2751.1	2762.1
20°	2599.5	2611.1	2622.6	2636.5	2651.2	2677.9	2716.5	2742.8	2732.2	2721.5	2732.2
22.5°	2545.1	2553.5	2561.9	2575.7	2591.5	2620.6	2663.2	2692.4	2681.3	2670.3	2681.3
25°	2451.6	2458.2	2464.9	2477.6	2492.2	2520.2	2561.5	2590.5	2582.5	2574.5	2582.5
27.5°	2309.8	2321.2	2332.5	2348.1	2365.1	2391.5	2427.4	2453.7	2451.1	2448.6	2451.1
30°	2186.6	2206.2	2225.7	2244.9	2264.0	2290.5	2324.3	2349.0	2346.8	2344.6	2346.8
32.5°	2066.6	2086.9	2107.2	2127.9	2148.8	2172.0	2197.6	2217.8	2221.6	2225.4	2221.6
35°	1887.7	1897.4	1907.2	1922.7	1940.0	1957.3	1974.6	1989.8	1998.2	2006.6	1998.2
37.5°	1622.7	1634.4	1646.2	1664.7	1685.5	1702.3	1715.0	1725.0	1727.2	1729.3	1727.2
40°	1426.7	1441.0	1455.2	1470.1	1485.2	1503.2	1524.1	1537.9	1530.8	1523.7	1530.8
42.5°	1226.0	1238.1	1250.2	1269.3	1290.8	1310.8	1329.2	1338.6	1321.2	1303.8	1321.2
45°	809.9	874.7	939.6	970.8	990.8	1002.8	1006.8	997.7	949.3	900.8	949.3
47.5°	415.3	481.7	548.1	615.0	682.1	698.4	663.9	622.8	561.9	500.9	561.9
50°	288.9	311.6	334.3	406.3	494.7	511.4	456.3	404.5	362.7	320.9	362.7
52.5°	213.0	225.3	237.7	293.2	363.2	371.1	317.1	270.8	247.9	225.0	247.9
55°	135.0	140.3	145.6	171.3	203.7	205.1	175.3	151.0	143.0	135.0	143.0
57.5°	79.8	88.2	96.7	107.5	119.2	119.2	107.6	97.0	89.3	81.6	89.3
60°	51.0	57.7	64.3	75.0	87.0	88.1	78.3	69.3	62.7	56.0	62.7
62.5°	46.2	48.6	51.0	58.5	67.6	68.2	60.2	53.6	51.2	48.8	51.2
65°	40.0	41.3	42.7	43.7	44.5	44.8	44.3	43.9	43.4	43.0	43.4
67.5°	35.0	36.0	36.9	37.5	37.8	38.2	38.7	38.8	37.9	37.0	37.9
70°	31.0	32.3	33.7	34.0	34.0	34.2	34.7	34.8	33.9	33.0	33.9
72.5°	27.8	28.8	29.8	30.3	30.6	31.0	31.5	31.6	30.7	29.8	30.7
75°	23.0	23.4	23.9	24.3	24.8	25.2	25.7	25.9	25.4	25.0	25.4
77.5°	18.2	18.6	19.1	19.5	19.8	20.0	20.1	20.1	19.6	19.2	19.6
80°	15.0	15.4	15.9	16.0	16.0	16.2	16.7	16.9	16.4	16.0	16.4
82.5°	11.8	11.9	12.0	12.3	12.6	12.8	12.9	13.0	12.9	12.8	12.9
85°	7.0	7.0	7.0	7.0	7.0	7.2	7.7	7.9	7.4	7.0	7.4
87.5°	8.0	8.2	8.2	7.6	7.6	7.4	6.6	5.8	4.4	3.2	4.2
90°	28.0	29.0	29.0	26.0	26.0	25.0	21.0	17.0	10.0	4.0	9.0
92.5°	34.4	33.8	33.8	32.4	30.8	28.2	23.4	22.6	24.4	15.2	25.8
95°	31.0	31.0	30.0	30.0	35.0	44.0	65.0	71.0	46.0	41.0	59.0
97.5°	71.0	75.6	84.2	97.2	119.4	127.4	117.8	88.8	84.0	81.0	107.8
100°	135.0	146.0	157.0	170.0	197.0	161.0	125.0	120.0	112.0	113.0	143.0
102.5°	235.8	236.4	241.0	246.0	193.8	171.4	165.8	159.2	146.4	146.6	177.4
105°	321.0	300.0	262.0	236.0	232.0	236.0	236.0	221.0	195.0	196.0	228.0
107.5°	309.8	307.4	309.0	310.0	316.4	317.8	309.2	282.2	255.4	249.8	282.2
110°	365.0	365.0	369.0	370.0	378.0	373.0	362.0	327.0	293.0	285.0	315.0

TEST NUMBER: P709380

CATALOG NUMBER: DL2W-WB-M-100U-100D-935-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	425.0	425.8	427.4	432.4	436.4	429.0	411.6	373.4	334.6	318.6	347.8
115°	522.0	521.0	521.0	525.0	523.0	515.0	489.0	445.0	395.0	373.0	398.0
117.5°	614.2	609.2	610.4	608.8	611.8	595.8	565.2	511.4	457.8	427.2	445.6
120°	675.0	670.0	672.0	672.0	671.0	651.0	614.0	561.0	501.0	464.0	476.0
122.5°	734.2	730.8	731.2	728.8	726.2	707.0	663.6	608.2	542.6	496.8	504.0
125°	818.0	820.0	814.0	814.0	805.0	786.0	740.0	681.0	610.0	553.0	549.0
127.5°	897.2	900.0	894.0	890.4	883.4	854.8	812.8	753.6	677.4	610.4	594.4
130°	950.0	952.0	950.0	940.0	929.0	902.0	860.0	804.0	723.0	652.0	624.0
132.5°	1002.8	1007.2	997.2	989.6	973.0	945.2	904.0	849.6	768.6	691.2	656.0
135°	1079.0	1076.0	1066.0	1054.0	1037.0	1010.0	972.0	915.0	838.0	752.0	707.0
137.5°	1135.4	1135.8	1126.0	1112.8	1095.4	1070.2	1034.2	980.6	902.2	818.0	760.2
140°	1173.0	1171.0	1162.0	1148.0	1133.0	1107.0	1075.0	1023.0	943.0	862.0	797.0
142.5°	1199.4	1201.4	1194.0	1182.4	1165.0	1142.2	1109.4	1057.4	987.0	902.8	834.6
145°	1244.0	1244.0	1237.0	1229.0	1213.0	1187.0	1162.0	1111.0	1044.0	964.0	889.0
147.5°	1280.4	1281.0	1276.6	1267.2	1251.6	1229.2	1204.0	1158.4	1096.2	1022.2	949.4
150°	1302.0	1305.0	1299.0	1292.0	1278.0	1254.0	1232.0	1188.0	1129.0	1063.0	987.0
152.5°	1322.8	1326.6	1321.4	1312.8	1298.8	1274.8	1256.0	1212.8	1157.8	1096.6	1023.8
155°	1353.0	1356.0	1352.0	1344.0	1328.0	1306.0	1289.0	1249.0	1200.0	1144.0	1079.0
157.5°	1375.4	1380.2	1374.4	1367.2	1350.0	1330.6	1314.6	1277.4	1233.6	1186.8	1128.8
160°	1389.0	1393.0	1388.0	1380.0	1362.0	1345.0	1329.0	1295.0	1256.0	1210.0	1160.0
162.5°	1397.8	1404.2	1398.4	1389.6	1370.8	1354.6	1341.0	1308.6	1272.8	1234.0	1188.0
165°	1408.0	1413.0	1408.0	1399.0	1380.0	1366.0	1355.0	1327.0	1296.0	1264.0	1225.0
167.5°	1408.0	1414.2	1409.4	1401.6	1381.6	1370.8	1362.4	1339.0	1313.2	1286.6	1257.6
170°	1404.0	1411.0	1407.0	1400.0	1380.0	1370.0	1364.0	1343.0	1322.0	1301.0	1276.0
172.5°	1396.8	1403.8	1399.0	1392.8	1372.8	1366.0	1362.4	1345.4	1327.6	1310.6	1290.4
175°	1376.0	1385.0	1382.0	1375.0	1360.0	1355.0	1356.0	1344.0	1332.0	1322.0	1309.0
177.5°	1348.2	1354.6	1351.4	1349.8	1337.8	1336.2	1341.8	1336.2	1330.6	1326.6	1321.0
180°	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0

TEST NUMBER: P709380

CATALOG NUMBER: DL2W-WB-M-100U-100D-935-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5
2.5°	2770.4	2763.0	2754.2	2754.7	2764.6	2771.0	2766.8	2762.5
5°	2775.3	2767.2	2757.4	2759.0	2771.8	2780.3	2775.4	2770.5
7.5°	2782.7	2774.0	2762.3	2762.2	2773.6	2780.7	2775.3	2769.9
10°	2786.8	2777.2	2763.4	2761.8	2772.5	2779.5	2775.5	2771.5
12.5°	2791.2	2779.3	2762.0	2757.2	2765.0	2769.4	2763.2	2757.1
15°	2794.3	2777.8	2753.0	2740.3	2739.8	2737.3	2728.4	2719.5
17.5°	2773.1	2750.6	2717.0	2695.1	2685.1	2674.9	2664.4	2653.9
20°	2742.8	2716.5	2677.9	2651.2	2636.5	2622.6	2611.1	2599.5
22.5°	2692.4	2663.2	2620.6	2591.5	2575.7	2561.9	2553.5	2545.1
25°	2590.5	2561.5	2520.2	2492.2	2477.6	2464.9	2458.2	2451.6
27.5°	2453.7	2427.4	2391.5	2365.1	2348.1	2332.5	2321.2	2309.8
30°	2349.0	2324.3	2290.5	2264.0	2244.9	2225.7	2206.2	2186.6
32.5°	2217.8	2197.6	2172.0	2148.8	2127.9	2107.2	2086.9	2066.6
35°	1989.8	1974.6	1957.3	1940.0	1922.7	1907.2	1897.4	1887.7
37.5°	1725.0	1715.0	1702.3	1685.5	1664.7	1646.2	1634.4	1622.7
40°	1537.9	1524.1	1503.2	1485.2	1470.1	1455.2	1441.0	1426.7
42.5°	1338.6	1329.2	1310.8	1290.8	1269.3	1250.2	1238.1	1226.0
45°	997.7	1006.8	1002.8	990.8	970.8	939.6	874.7	809.9
47.5°	622.8	663.9	698.4	682.1	615.0	548.1	481.7	415.3
50°	404.5	456.3	511.4	494.7	406.3	334.3	311.6	288.9
52.5°	270.8	317.1	371.1	363.2	293.2	237.7	225.3	213.0
55°	151.0	175.3	205.1	203.7	171.3	145.6	140.3	135.0
57.5°	97.0	107.6	119.2	119.2	107.5	96.7	88.2	79.8
60°	69.3	78.3	88.1	87.0	75.0	64.3	57.7	51.0
62.5°	53.6	60.2	68.2	67.6	58.5	51.0	48.6	46.2
65°	43.9	44.3	44.8	44.5	43.7	42.7	41.3	40.0
67.5°	38.8	38.7	38.2	37.8	37.5	36.9	36.0	35.0
70°	34.8	34.7	34.2	34.0	34.0	33.7	32.3	31.0
72.5°	31.6	31.5	31.0	30.6	30.3	29.8	28.8	27.8
75°	25.9	25.7	25.2	24.8	24.3	23.9	23.4	23.0
77.5°	20.1	20.1	20.0	19.8	19.5	19.1	18.6	18.2
80°	16.9	16.7	16.2	16.0	16.0	15.9	15.4	15.0
82.5°	13.0	12.9	12.8	12.6	12.3	12.0	11.9	11.8
85°	7.9	7.7	7.2	7.0	7.0	7.0	7.0	7.0
87.5°	5.6	7.0	8.6	10.8	12.4	13.6	14.2	15.0
90°	16.0	23.0	31.0	42.0	50.0	56.0	59.0	63.0
92.5°	36.8	51.0	62.2	75.6	90.0	97.6	102.2	103.8
95°	85.0	103.0	126.0	146.0	164.0	176.0	183.0	181.0
97.5°	131.8	165.4	191.6	214.8	235.8	250.2	261.6	260.6
100°	171.0	199.0	234.0	262.0	283.0	299.0	312.0	315.0
102.5°	210.2	236.6	274.8	306.0	330.2	347.8	357.6	367.0
105°	265.0	302.0	331.0	369.0	394.0	417.0	424.0	434.0
107.5°	322.4	363.0	395.2	426.8	456.4	475.6	490.6	498.6
110°	360.0	399.0	440.0	470.0	498.0	518.0	533.0	541.0



TEST NUMBER: P709380

CATALOG NUMBER: DL2W-WB-M-100U-100D-935-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	393.6	436.6	480.8	514.0	539.6	562.8	575.4	584.2
115°	443.0	490.0	534.0	577.0	602.0	620.0	631.0	638.0
117.5°	488.2	537.2	580.0	623.4	654.6	667.8	672.0	677.2
120°	517.0	566.0	608.0	649.0	685.0	699.0	708.0	714.0
122.5°	542.6	591.6	636.0	674.6	709.0	728.6	739.2	746.8
125°	582.0	628.0	674.0	715.0	743.0	764.0	778.0	785.0
127.5°	615.2	659.4	706.6	746.0	776.2	798.4	810.0	815.4
130°	640.0	677.0	725.0	766.0	797.0	820.0	830.0	833.0
132.5°	664.0	693.8	739.4	782.8	813.8	834.4	845.2	848.2
135°	701.0	718.0	758.0	800.0	832.0	853.0	863.0	869.0
137.5°	741.8	746.2	771.0	812.2	845.2	865.4	875.4	879.0
140°	769.0	767.0	783.0	817.0	850.0	871.0	881.0	883.0
142.5°	797.8	789.4	795.0	822.6	852.4	872.6	883.4	886.2
145°	846.0	828.0	821.0	835.0	857.0	874.0	886.0	888.0
147.5°	897.8	868.8	853.0	855.6	867.6	879.6	889.0	889.2
150°	933.0	900.0	877.0	874.0	878.0	886.0	893.0	894.0
152.5°	966.6	931.2	903.4	895.6	893.2	898.0	901.0	901.2
155°	1023.0	985.0	949.0	932.0	925.0	923.0	922.0	919.0
157.5°	1076.4	1036.0	996.2	977.8	966.6	960.4	955.8	952.6
160°	1110.0	1068.0	1029.0	1009.0	997.0	990.0	983.0	979.0
162.5°	1144.4	1104.8	1065.0	1041.8	1029.8	1022.0	1014.2	1007.8
165°	1190.0	1157.0	1117.0	1092.0	1077.0	1072.0	1065.0	1060.0
167.5°	1230.0	1204.4	1168.6	1145.0	1133.6	1124.4	1117.4	1108.4
170°	1254.0	1234.0	1199.0	1177.0	1172.0	1162.0	1155.0	1146.0
172.5°	1273.2	1257.2	1229.4	1211.4	1207.2	1201.2	1195.8	1188.4
175°	1299.0	1291.0	1270.0	1257.0	1257.0	1255.0	1254.0	1245.0
177.5°	1317.0	1313.0	1301.0	1294.6	1300.2	1301.8	1297.8	1290.6
180°	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0

(END OF REPORT)