

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: P709405

Luminaire Tested: DL2W-WB-M-150U-100D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709405  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-6, 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-150U-100D-940-UNV-STD-W-WM-4  
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10771.1 lumens  
Efficiency: N/A  
Efficacy: 115.6 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

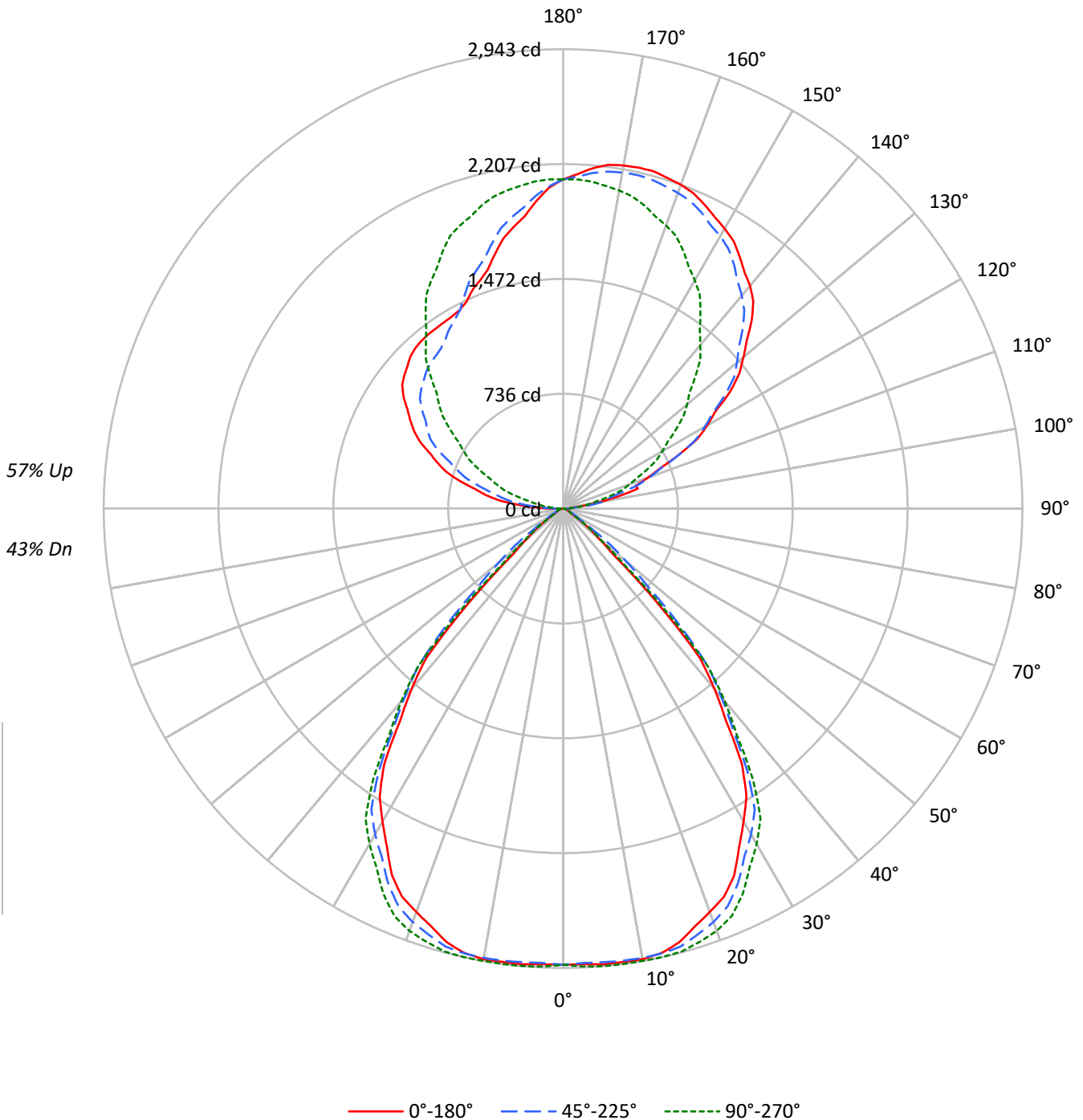
Input Watts (W): 93.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43				
1	98	94	91	88	89	86	83	81	72	70	68	58	57	56	46	45	45	39				
2	90	84	79	74	83	77	73	69	65	62	59	53	51	49	43	41	40	35				
3	83	75	69	64	76	70	64	60	59	55	52	49	46	44	39	38	36	32				
4	77	68	61	56	71	63	57	52	53	49	46	44	41	39	36	34	33	29				
5	71	61	54	49	66	57	51	46	48	44	40	41	37	35	34	31	30	26				
6	66	56	48	43	61	52	45	41	44	40	36	37	34	31	31	29	27	24				
7	62	51	43	38	57	47	41	36	41	36	32	35	31	28	29	26	25	22				
8	57	46	39	34	53	43	37	33	37	33	29	32	28	26	27	24	22	20				
9	54	43	36	31	50	40	34	30	35	30	27	30	26	24	25	22	21	19				
10	50	39	33	28	46	37	31	27	32	27	24	28	24	22	23	21	19	17				

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

	0°	45°	90°	135°	180°
0°	47180	47180	47180	47180	47180
5°	47496	47285	47686	47285	47496
10°	48063	47909	48237	47909	48063
15°	48084	48563	49091	48563	48084
20°	47245	48426	49462	48426	47245
25°	46198	47227	48515	47227	46198
30°	43121	44909	46236	44909	43121
35°	39356	40628	41837	40628	39356
40°	31809	33312	33970	33312	31809
45°	19559	24077	21758	24077	19559
50°	7676	13366	8528	13366	7676
55°	4020	6086	4020	6086	4020
60°	1741	2990	1912	2990	1741
65°	1616	1805	1738	1805	1616
70°	1548	1704	1648	1704	1548
75°	1516	1650	1647	1650	1516
80°	1478	1585	1571	1585	1478
85°	1371	1389	1371	1389	1371

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 60°  
 Vertical Angle: 45°  
 Luminance: 24318 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.9	2.6
10°-20°	820.3	7.6
20°-30°	1217.5	11.3
30°-40°	1264.6	11.7
40°-50°	761.0	7.1
50°-60°	182.3	1.7
60°-70°	49.4	0.5
70°-80°	27.8	0.3
80°-90°	17.4	0.2
90°-100°	166.8	1.5
100°-110°	487.2	4.5
110°-120°	797.3	7.4
120°-130°	1012.7	9.4
130°-140°	1084.1	10.1
140°-150°	1012.5	9.4
150°-160°	833.2	7.7
160°-170°	558.9	5.2
170°-180°	198.4	1.8
0°-30°	2317.7	21.5
0°-40°	3582.3	33.3
0°-60°	4525.5	42.0
0°-90°	4620.1	42.9
90°-120°	1451.2	13.5
90°-150°	4560.5	42.3
90°-180°	6151.0	57.1
0°-180°	10771.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2922	2922	2922	2922	2922	
5°	2930	2918	2942	2918	2930	280
15°	2877	2905	2937	2905	2877	808
25°	2593	2651	2723	2651	2593	1181
35°	1997	2061	2123	2061	1997	1216
45°	857	1054	953	1054	857	663
55°	143	216	143	216	143	140
65°	42	47	46	47	42	42
75°	24	26	26	26	24	26
85°	7	8	7	8	7	9
90°	44	41	7	57	93	21
95°	49	66	68	216	299	82
105°	497	371	314	555	686	460
115°	820	826	596	882	1010	812
125°	1306	1264	884	1103	1247	1156
135°	1710	1628	1200	1240	1381	1312
145°	1972	1909	1534	1318	1413	1235
155°	2146	2095	1822	1499	1463	991
165°	2237	2183	2011	1759	1687	631
175°	2189	2158	2103	2011	1976	210
180°	2108	2108	2108	2108	2108	

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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1
2.5°	2922.1	2926.6	2931.1	2924.3	2913.8	2913.3	2922.7	2930.5	2933.5	2936.5	2933.5
5°	2930.5	2935.7	2940.9	2932.0	2918.3	2916.7	2927.0	2935.6	2938.9	2942.2	2938.9
7.5°	2929.9	2935.6	2941.4	2933.8	2921.8	2921.9	2934.2	2943.4	2943.2	2943.0	2943.2
10°	2931.6	2935.8	2940.1	2932.7	2921.4	2923.0	2937.6	2947.8	2945.0	2942.2	2945.0
12.5°	2916.4	2922.9	2929.3	2924.8	2916.5	2921.5	2939.9	2952.4	2947.7	2943.0	2947.7
15°	2876.6	2886.0	2895.4	2898.1	2898.6	2912.0	2938.3	2955.7	2946.3	2936.9	2946.3
17.5°	2807.2	2818.3	2829.4	2840.2	2850.8	2873.9	2909.5	2933.3	2921.7	2910.0	2921.7
20°	2749.7	2761.9	2774.1	2788.8	2804.3	2832.5	2873.4	2901.3	2890.0	2878.7	2890.0
22.5°	2692.2	2701.0	2709.8	2724.5	2741.2	2772.0	2817.0	2847.9	2836.2	2824.6	2836.2
25°	2593.2	2600.2	2607.3	2620.7	2636.2	2665.8	2709.5	2740.2	2731.7	2723.3	2731.7
27.5°	2443.2	2455.2	2467.3	2483.8	2501.7	2529.7	2567.7	2595.5	2592.7	2590.0	2592.7
30°	2312.9	2333.6	2354.3	2374.6	2394.8	2422.8	2458.5	2484.7	2482.4	2480.0	2482.4
32.5°	2186.0	2207.4	2228.9	2250.8	2272.9	2297.5	2324.6	2345.9	2349.9	2354.0	2349.9
35°	1996.7	2007.0	2017.4	2033.7	2052.1	2070.4	2088.7	2104.7	2113.6	2122.6	2113.6
37.5°	1716.4	1728.9	1741.3	1760.9	1782.9	1800.6	1814.0	1824.7	1826.9	1829.2	1826.9
40°	1509.2	1524.2	1539.2	1555.0	1571.0	1590.0	1612.1	1626.8	1619.3	1611.7	1619.3
42.5°	1296.8	1309.6	1322.4	1342.6	1365.4	1386.5	1405.9	1415.9	1397.5	1379.1	1397.5
45°	856.6	925.3	993.9	1026.9	1048.1	1060.8	1065.0	1055.3	1004.1	952.9	1004.1
47.5°	439.3	509.5	579.8	650.6	721.5	738.8	702.3	658.8	594.3	529.8	594.3
50°	305.6	329.6	353.6	429.7	523.3	540.9	482.6	427.8	383.7	339.5	383.7
52.5°	225.3	238.3	251.4	310.2	384.1	392.5	335.4	286.5	262.2	238.0	262.2
55°	142.8	148.4	154.1	181.2	215.5	216.9	185.4	159.7	151.2	142.8	151.2
57.5°	84.4	93.3	102.3	113.7	126.0	126.1	113.9	102.7	94.5	86.3	94.5
60°	53.9	61.0	68.0	79.3	92.0	93.2	82.8	73.3	66.3	59.2	66.3
62.5°	48.9	51.4	53.9	61.8	71.5	72.1	63.7	56.7	54.1	51.6	54.1
65°	42.3	43.7	45.1	46.2	47.1	47.4	46.9	46.4	45.9	45.5	45.9
67.5°	37.0	38.0	39.1	39.6	40.0	40.4	40.9	41.0	40.1	39.1	40.1
70°	32.8	34.2	35.6	36.0	36.0	36.2	36.7	36.8	35.8	34.9	35.8
72.5°	29.4	30.4	31.5	32.0	32.4	32.8	33.3	33.4	32.5	31.5	32.5
75°	24.3	24.8	25.3	25.7	26.2	26.7	27.1	27.4	26.9	26.4	26.9
77.5°	19.2	19.7	20.2	20.6	21.0	21.2	21.3	21.2	20.8	20.3	20.8
80°	15.9	16.3	16.8	16.9	16.9	17.2	17.6	17.9	17.4	16.9	17.4
82.5°	12.5	12.6	12.7	13.0	13.3	13.6	13.7	13.7	13.6	13.5	13.6
85°	7.4	7.4	7.4	7.4	7.4	7.6	8.1	8.3	7.9	7.4	7.9
87.5°	11.4	11.6	11.4	11.0	10.8	10.6	9.3	7.6	5.7	4.0	5.7
90°	44.4	45.4	44.4	42.3	41.2	40.2	33.8	25.4	15.9	7.4	15.9
92.5°	54.5	53.9	53.7	51.6	49.7	44.4	36.4	36.4	37.0	23.5	39.5
95°	48.6	48.6	47.6	47.6	56.0	75.0	103.6	102.5	74.0	67.6	95.1
97.5°	112.9	113.1	127.7	158.3	184.1	197.6	184.3	138.4	135.9	130.6	170.6
100°	226.2	223.0	245.2	271.6	299.1	244.1	194.5	193.4	184.9	175.4	227.2
102.5°	359.7	372.6	381.3	381.5	303.3	271.2	261.2	252.6	234.8	228.7	279.6
105°	496.7	475.6	410.0	372.0	366.7	375.2	376.2	344.5	317.0	313.9	364.6
107.5°	487.4	480.0	484.9	494.4	502.8	503.7	490.6	444.7	402.9	396.7	441.1
110°	577.0	573.9	581.3	586.5	595.0	590.8	571.7	520.0	467.1	453.4	497.8

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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	670.0	676.2	675.9	685.5	688.0	682.9	652.1	593.5	532.2	510.9	553.6
115°	820.1	818.0	825.4	827.5	832.8	819.0	772.5	704.9	627.8	596.0	634.1
117.5°	972.5	966.1	966.1	978.0	974.0	945.2	897.9	817.6	730.9	678.5	707.4
120°	1066.3	1064.2	1064.2	1068.4	1065.3	1031.5	980.7	892.0	796.8	733.4	755.6
122.5°	1155.1	1163.1	1156.4	1158.9	1152.4	1119.4	1056.0	966.4	862.8	793.5	802.1
125°	1306.2	1297.8	1292.5	1290.4	1283.0	1246.0	1177.3	1080.1	968.0	883.5	871.9
127.5°	1423.5	1426.7	1420.6	1413.0	1398.6	1361.8	1291.6	1193.6	1076.7	970.2	944.6
130°	1508.1	1511.3	1506.0	1497.5	1476.4	1432.0	1368.6	1271.4	1151.9	1037.8	994.5
132.5°	1597.7	1595.0	1588.0	1569.4	1547.4	1505.5	1437.9	1346.6	1219.6	1098.7	1045.2
135°	1709.9	1711.0	1695.1	1676.1	1650.8	1604.3	1548.2	1458.4	1331.6	1200.5	1123.4
137.5°	1804.0	1802.3	1786.7	1770.8	1739.3	1698.9	1645.0	1559.9	1436.0	1301.6	1205.0
140°	1863.2	1863.2	1848.4	1828.3	1801.9	1760.7	1706.8	1623.3	1507.0	1367.5	1265.0
142.5°	1908.8	1909.7	1894.9	1879.9	1853.4	1817.3	1764.3	1684.1	1567.9	1439.4	1324.2
145°	1972.0	1976.3	1964.6	1951.9	1926.6	1891.7	1849.4	1767.0	1663.4	1534.5	1418.3
147.5°	2032.3	2036.5	2029.5	2016.4	1991.0	1954.7	1916.2	1841.4	1743.5	1628.6	1510.2
150°	2070.3	2074.5	2065.0	2054.5	2033.3	1995.3	1959.3	1885.4	1793.4	1687.7	1573.6
152.5°	2105.8	2110.0	2102.2	2090.0	2065.4	2028.2	1997.4	1925.9	1840.8	1744.4	1633.6
155°	2146.4	2155.9	2148.5	2136.9	2112.6	2077.7	2049.2	1983.6	1906.5	1822.0	1719.4
157.5°	2185.7	2196.1	2185.7	2174.7	2146.2	2116.8	2090.2	2029.9	1963.4	1890.9	1798.1
160°	2207.7	2217.2	2207.7	2195.0	2166.5	2137.9	2114.7	2058.7	1996.3	1929.8	1850.5
162.5°	2221.2	2231.6	2223.8	2209.4	2180.0	2154.0	2132.4	2081.5	2024.2	1963.6	1891.1
165°	2237.3	2248.9	2239.4	2222.5	2194.0	2172.8	2154.9	2109.4	2060.8	2011.1	1953.0
167.5°	2237.1	2250.4	2240.7	2229.5	2197.1	2180.9	2165.4	2128.4	2087.6	2048.1	2001.6
170°	2232.0	2243.6	2237.3	2227.8	2192.9	2179.2	2169.6	2136.9	2102.0	2069.3	2031.2
172.5°	2221.0	2231.8	2224.6	2215.1	2182.8	2171.6	2167.1	2140.3	2110.5	2085.3	2053.2
175°	2188.7	2203.5	2198.2	2189.7	2161.2	2154.9	2155.9	2137.9	2118.9	2103.1	2084.0
177.5°	2145.6	2154.9	2154.0	2146.4	2127.0	2128.6	2135.4	2124.4	2116.8	2110.9	2101.6
180°	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4

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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1
2.5°	2930.5	2922.7	2913.3	2913.8	2924.3	2931.1	2926.6	2922.1
5°	2935.6	2927.0	2916.7	2918.3	2932.0	2940.9	2935.7	2930.5
7.5°	2943.4	2934.2	2921.9	2921.8	2933.8	2941.4	2935.6	2929.9
10°	2947.8	2937.6	2923.0	2921.4	2932.7	2940.1	2935.8	2931.6
12.5°	2952.4	2939.9	2921.5	2916.5	2924.8	2929.3	2922.9	2916.4
15°	2955.7	2938.3	2912.0	2898.6	2898.1	2895.4	2886.0	2876.6
17.5°	2933.3	2909.5	2873.9	2850.8	2840.2	2829.4	2818.3	2807.2
20°	2901.3	2873.4	2832.5	2804.3	2788.8	2774.1	2761.9	2749.7
22.5°	2847.9	2817.0	2772.0	2741.2	2724.5	2709.8	2701.0	2692.2
25°	2740.2	2709.5	2665.8	2636.2	2620.7	2607.3	2600.2	2593.2
27.5°	2595.5	2567.7	2529.7	2501.7	2483.8	2467.3	2455.2	2443.2
30°	2484.7	2458.5	2422.8	2394.8	2374.6	2354.3	2333.6	2312.9
32.5°	2345.9	2324.6	2297.5	2272.9	2250.8	2228.9	2207.4	2186.0
35°	2104.7	2088.7	2070.4	2052.1	2033.7	2017.4	2007.0	1996.7
37.5°	1824.7	1814.0	1800.6	1782.9	1760.9	1741.3	1728.9	1716.4
40°	1626.8	1612.1	1590.0	1571.0	1555.0	1539.2	1524.2	1509.2
42.5°	1415.9	1405.9	1386.5	1365.4	1342.6	1322.4	1309.6	1296.8
45°	1055.3	1065.0	1060.8	1048.1	1026.9	993.9	925.3	856.6
47.5°	658.8	702.3	738.8	721.5	650.6	579.8	509.5	439.3
50°	427.8	482.6	540.9	523.3	429.7	353.6	329.6	305.6
52.5°	286.5	335.4	392.5	384.1	310.2	251.4	238.3	225.3
55°	159.7	185.4	216.9	215.5	181.2	154.1	148.4	142.8
57.5°	102.7	113.9	126.1	126.0	113.7	102.3	93.3	84.4
60°	73.3	82.8	93.2	92.0	79.3	68.0	61.0	53.9
62.5°	56.7	63.7	72.1	71.5	61.8	53.9	51.4	48.9
65°	46.4	46.9	47.4	47.1	46.2	45.1	43.7	42.3
67.5°	41.0	40.9	40.4	40.0	39.6	39.1	38.0	37.0
70°	36.8	36.7	36.2	36.0	36.0	35.6	34.2	32.8
72.5°	33.4	33.3	32.8	32.4	32.0	31.5	30.4	29.4
75°	27.4	27.1	26.7	26.2	25.7	25.3	24.8	24.3
77.5°	21.2	21.3	21.2	21.0	20.6	20.2	19.7	19.2
80°	17.9	17.6	17.2	16.9	16.9	16.8	16.3	15.9
82.5°	13.7	13.7	13.6	13.3	13.0	12.7	12.6	12.5
85°	8.3	8.1	7.6	7.4	7.4	7.4	7.4	7.4
87.5°	7.6	9.7	12.7	15.0	18.0	20.5	21.6	21.1
90°	25.4	35.9	50.7	62.4	77.1	89.8	95.1	93.0
92.5°	57.5	79.1	101.5	122.4	144.8	157.5	162.8	164.0
95°	133.2	163.8	199.7	231.4	258.9	279.0	284.3	299.1
97.5°	209.0	262.7	305.4	342.0	376.4	398.8	411.7	416.8
100°	267.4	320.2	373.1	412.2	453.4	472.4	490.4	503.0
102.5°	329.9	376.9	435.6	484.9	525.2	551.9	563.1	574.1
105°	423.8	477.7	528.4	582.3	624.6	658.4	681.6	685.9
107.5°	511.5	575.1	627.3	681.6	723.3	754.4	777.6	785.6
110°	570.7	635.1	697.5	740.8	788.4	821.1	840.2	855.0



TEST NUMBER: P709405

CATALOG NUMBER: DL2W-WB-M-150U-100D-940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	624.8	693.5	761.8	816.9	859.4	892.2	913.7	921.8
115°	707.0	775.7	847.6	916.3	961.7	985.0	1000.8	1010.3
117.5°	779.9	854.8	922.4	992.1	1039.1	1063.4	1068.0	1075.6
120°	822.2	900.4	972.3	1033.6	1086.4	1114.9	1125.5	1129.7
122.5°	866.2	941.0	1011.2	1074.2	1125.3	1159.8	1177.1	1182.2
125°	926.8	1000.8	1070.6	1136.1	1183.6	1218.5	1237.5	1247.0
127.5°	979.9	1049.4	1122.8	1187.4	1234.2	1268.0	1288.5	1298.6
130°	1018.8	1079.0	1154.0	1219.6	1267.1	1300.9	1318.9	1327.4
132.5°	1056.0	1104.4	1178.6	1244.1	1294.2	1327.2	1345.1	1351.9
135°	1114.9	1143.5	1204.8	1274.5	1325.3	1357.0	1374.9	1381.3
137.5°	1178.8	1185.3	1227.2	1292.5	1344.5	1377.2	1392.9	1398.2
140°	1222.7	1217.5	1244.9	1300.9	1353.8	1386.5	1401.3	1406.6
142.5°	1270.9	1255.5	1267.8	1310.2	1357.2	1389.9	1405.6	1410.9
145°	1344.3	1315.7	1306.2	1329.5	1364.4	1391.8	1408.7	1413.0
147.5°	1428.0	1386.3	1356.1	1362.9	1380.2	1399.9	1413.8	1416.3
150°	1483.8	1432.0	1395.0	1390.8	1397.1	1410.9	1421.4	1421.4
152.5°	1539.6	1484.4	1437.3	1424.6	1422.5	1427.8	1434.9	1434.1
155°	1628.6	1564.1	1510.2	1486.9	1473.2	1469.0	1466.9	1462.6
157.5°	1714.4	1647.6	1587.1	1555.4	1538.1	1527.5	1522.5	1515.9
160°	1774.4	1702.5	1641.2	1605.3	1590.5	1571.5	1567.3	1555.6
162.5°	1821.7	1760.9	1695.3	1659.4	1639.5	1623.9	1618.0	1604.7
165°	1894.9	1842.0	1776.5	1741.6	1717.3	1703.6	1692.0	1686.7
167.5°	1959.8	1914.5	1857.7	1822.0	1809.5	1788.8	1779.0	1771.2
170°	1995.3	1959.3	1911.8	1876.9	1865.3	1850.5	1839.9	1830.4
172.5°	2025.7	2000.8	1956.6	1932.7	1921.9	1908.8	1900.8	1887.9
175°	2066.1	2050.2	2021.7	2000.6	2005.8	1993.2	1991.0	1976.3
177.5°	2094.8	2089.8	2070.3	2061.9	2072.0	2067.8	2066.9	2057.6
180°	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4

(END OF REPORT)