

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: P709404

Luminaire Tested: DL2W-WB-M-150U-100D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

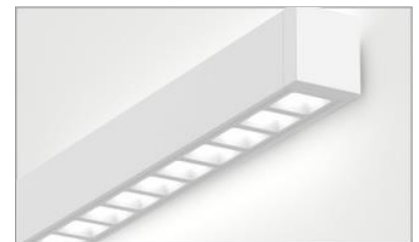
**Test Information**

Test Method: LM-79-2019  
Report Number: P709404  
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-935-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: 10188.1 lumens  
Efficiency: N/A  
Efficacy: 109.3 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

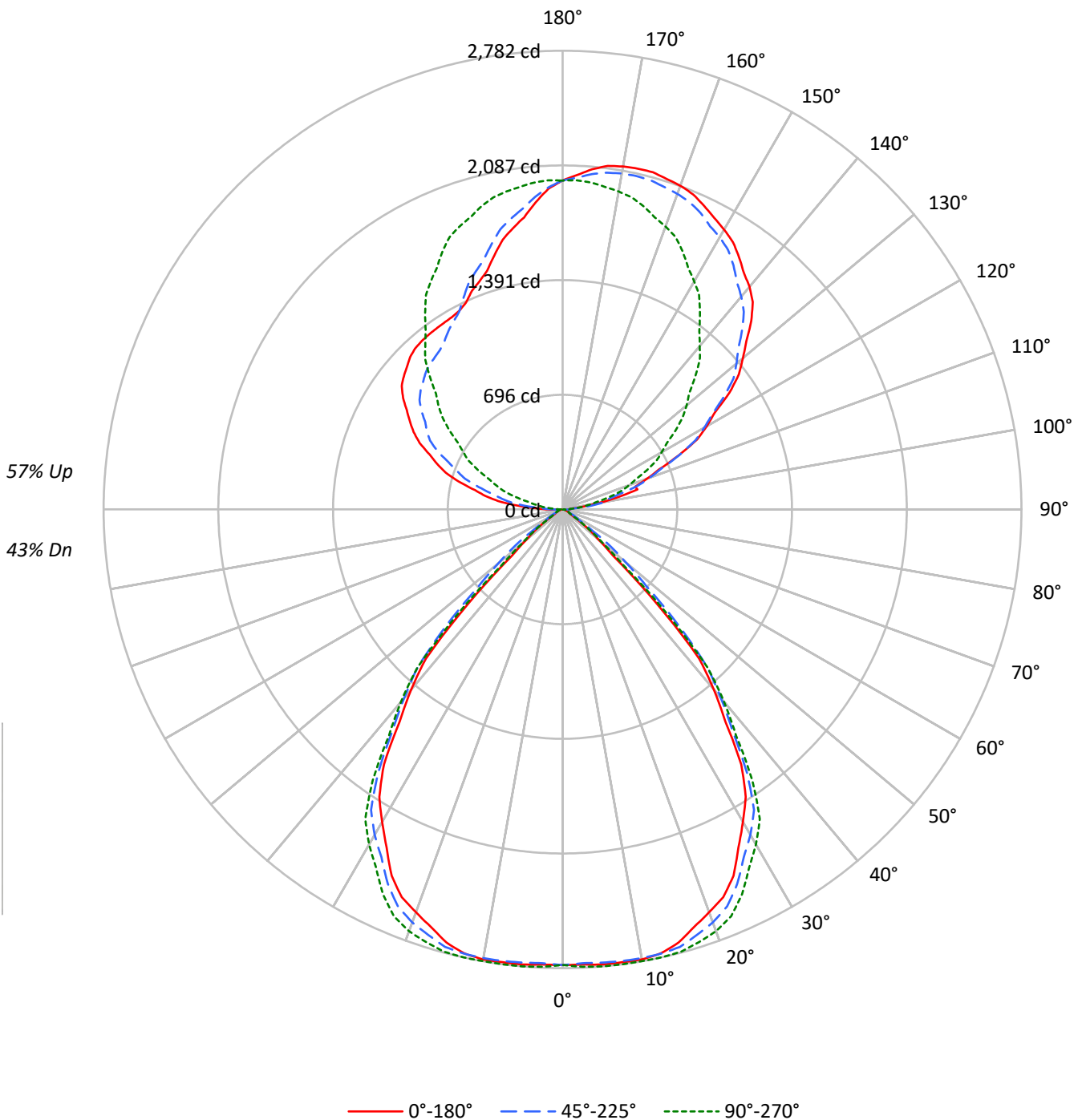
Input Watts (W): 93.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	45	44	41	39	36	34	33	29				
5	71	61	54	49	66	57	51	46	48	44	40	41	37	35	33	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	24	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°	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

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.6	2.6
10°-20°	775.5	7.6
20°-30°	1151.0	11.3
30°-40°	1195.5	11.7
40°-50°	719.4	7.1
50°-60°	172.3	1.7
60°-70°	46.7	0.5
70°-80°	26.2	0.3
80°-90°	16.5	0.2
90°-100°	157.8	1.5
100°-110°	461.0	4.5
110°-120°	754.4	7.4
120°-130°	958.3	9.4
130°-140°	1025.8	10.1
140°-150°	958.0	9.4
150°-160°	788.4	7.7
160°-170°	528.8	5.2
170°-180°	187.7	1.8
0°-30°	2191.1	21.5
0°-40°	3386.6	33.2
0°-60°	4278.3	42.0
0°-90°	4367.8	42.9
90°-120°	1373.2	13.5
90°-150°	4315.3	42.4
90°-180°	5820.0	57.1
0°-180°	10188.1	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	9
90°	42	38	7	54	88	20
95°	46	62	64	204	283	78
105°	470	351	297	526	649	436
115°	776	782	564	834	956	768
125°	1236	1196	836	1044	1180	1094
135°	1618	1540	1136	1173	1307	1241
145°	1866	1806	1452	1247	1337	1168
155°	2031	1982	1724	1418	1384	937
165°	2117	2066	1903	1664	1596	597
175°	2071	2042	1990	1903	1870	199
180°	1995	1995	1995	1995	1995	

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**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°	10.8	11.0	10.8	10.4	10.2	10.0	8.8	7.2	5.4	3.8	5.4
90°	42.0	43.0	42.0	40.0	39.0	38.0	32.0	24.0	15.0	7.0	15.0
92.5°	51.6	51.0	50.8	48.8	47.0	42.0	34.4	34.4	35.0	22.2	37.4
95°	46.0	46.0	45.0	45.0	53.0	71.0	98.0	97.0	70.0	64.0	90.0
97.5°	106.8	107.0	120.8	149.8	174.2	187.0	174.4	131.0	128.6	123.6	161.4
100°	214.0	211.0	232.0	257.0	283.0	231.0	184.0	183.0	175.0	166.0	215.0
102.5°	340.4	352.6	360.8	361.0	287.0	256.6	247.2	239.0	222.2	216.4	264.6
105°	470.0	450.0	388.0	352.0	347.0	355.0	356.0	326.0	300.0	297.0	345.0
107.5°	461.2	454.2	458.8	467.8	475.8	476.6	464.2	420.8	381.2	375.4	417.4
110°	546.0	543.0	550.0	555.0	563.0	559.0	541.0	492.0	442.0	429.0	471.0

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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	634.0	639.8	639.6	648.6	651.0	646.2	617.0	561.6	503.6	483.4	523.8
115°	776.0	774.0	781.0	783.0	788.0	775.0	731.0	667.0	594.0	564.0	600.0
117.5°	920.2	914.2	914.2	925.4	921.6	894.4	849.6	773.6	691.6	642.0	669.4
120°	1009.0	1007.0	1007.0	1011.0	1008.0	976.0	928.0	844.0	754.0	694.0	715.0
122.5°	1093.0	1100.6	1094.2	1096.6	1090.4	1059.2	999.2	914.4	816.4	750.8	759.0
125°	1236.0	1228.0	1223.0	1221.0	1214.0	1179.0	1114.0	1022.0	916.0	836.0	825.0
127.5°	1347.0	1350.0	1344.2	1337.0	1323.4	1288.6	1222.2	1129.4	1018.8	918.0	893.8
130°	1427.0	1430.0	1425.0	1417.0	1397.0	1355.0	1295.0	1203.0	1090.0	982.0	941.0
132.5°	1511.8	1509.2	1502.6	1485.0	1464.2	1424.6	1360.6	1274.2	1154.0	1039.6	989.0
135°	1618.0	1619.0	1604.0	1586.0	1562.0	1518.0	1465.0	1380.0	1260.0	1136.0	1063.0
137.5°	1707.0	1705.4	1690.6	1675.6	1645.8	1607.6	1556.6	1476.0	1358.8	1231.6	1140.2
140°	1763.0	1763.0	1749.0	1730.0	1705.0	1666.0	1615.0	1536.0	1426.0	1294.0	1197.0
142.5°	1806.2	1807.0	1793.0	1778.8	1753.8	1719.6	1669.4	1593.6	1483.6	1362.0	1253.0
145°	1866.0	1870.0	1859.0	1847.0	1823.0	1790.0	1750.0	1672.0	1574.0	1452.0	1342.0
147.5°	1923.0	1927.0	1920.4	1908.0	1884.0	1849.6	1813.2	1742.4	1649.8	1541.0	1429.0
150°	1959.0	1963.0	1954.0	1944.0	1924.0	1888.0	1854.0	1784.0	1697.0	1597.0	1489.0
152.5°	1992.6	1996.6	1989.2	1977.6	1954.4	1919.2	1890.0	1822.4	1741.8	1650.6	1545.8
155°	2031.0	2040.0	2033.0	2022.0	1999.0	1966.0	1939.0	1877.0	1804.0	1724.0	1627.0
157.5°	2068.2	2078.0	2068.2	2057.8	2030.8	2003.0	1977.8	1920.8	1857.8	1789.2	1701.4
160°	2089.0	2098.0	2089.0	2077.0	2050.0	2023.0	2001.0	1948.0	1889.0	1826.0	1751.0
162.5°	2101.8	2111.6	2104.2	2090.6	2062.8	2038.2	2017.8	1969.6	1915.4	1858.0	1789.4
165°	2117.0	2128.0	2119.0	2103.0	2076.0	2056.0	2039.0	1996.0	1950.0	1903.0	1848.0
167.5°	2116.8	2129.4	2120.2	2109.6	2079.0	2063.6	2049.0	2014.0	1975.4	1938.0	1894.0
170°	2112.0	2123.0	2117.0	2108.0	2075.0	2062.0	2053.0	2022.0	1989.0	1958.0	1922.0
172.5°	2101.6	2111.8	2105.0	2096.0	2065.4	2054.8	2050.6	2025.2	1997.0	1973.2	1942.8
175°	2071.0	2085.0	2080.0	2072.0	2045.0	2039.0	2040.0	2023.0	2005.0	1990.0	1972.0
177.5°	2030.2	2039.0	2038.2	2031.0	2012.6	2014.2	2020.6	2010.2	2003.0	1997.4	1988.6
180°	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0

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**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°	7.2	9.2	12.0	14.2	17.0	19.4	20.4	20.0
90°	24.0	34.0	48.0	59.0	73.0	85.0	90.0	88.0
92.5°	54.4	74.8	96.0	115.8	137.0	149.0	154.0	155.2
95°	126.0	155.0	189.0	219.0	245.0	264.0	269.0	283.0
97.5°	197.8	248.6	289.0	323.6	356.2	377.4	389.6	394.4
100°	253.0	303.0	353.0	390.0	429.0	447.0	464.0	476.0
102.5°	312.2	356.6	412.2	458.8	497.0	522.2	532.8	543.2
105°	401.0	452.0	500.0	551.0	591.0	623.0	645.0	649.0
107.5°	484.0	544.2	593.6	645.0	684.4	713.8	735.8	743.4
110°	540.0	601.0	660.0	701.0	746.0	777.0	795.0	809.0



TEST NUMBER: P709404

CATALOG NUMBER: DL2W-WB-M-150U-100D-935-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	591.2	656.2	720.8	773.0	813.2	844.2	864.6	872.2
115°	669.0	734.0	802.0	867.0	910.0	932.0	947.0	956.0
117.5°	738.0	808.8	872.8	938.8	983.2	1006.2	1010.6	1017.8
120°	778.0	852.0	920.0	978.0	1028.0	1055.0	1065.0	1069.0
122.5°	819.6	890.4	956.8	1016.4	1064.8	1097.4	1113.8	1118.6
125°	877.0	947.0	1013.0	1075.0	1120.0	1153.0	1171.0	1180.0
127.5°	927.2	993.0	1062.4	1123.6	1167.8	1199.8	1219.2	1228.8
130°	964.0	1021.0	1092.0	1154.0	1199.0	1231.0	1248.0	1256.0
132.5°	999.2	1045.0	1115.2	1177.2	1224.6	1255.8	1272.8	1279.2
135°	1055.0	1082.0	1140.0	1206.0	1254.0	1284.0	1301.0	1307.0
137.5°	1115.4	1121.6	1161.2	1223.0	1272.2	1303.2	1318.0	1323.0
140°	1157.0	1152.0	1178.0	1231.0	1281.0	1312.0	1326.0	1331.0
142.5°	1202.6	1188.0	1199.6	1239.8	1284.2	1315.2	1330.0	1335.0
145°	1272.0	1245.0	1236.0	1258.0	1291.0	1317.0	1333.0	1337.0
147.5°	1351.2	1311.8	1283.2	1289.6	1306.0	1324.6	1337.8	1340.2
150°	1404.0	1355.0	1320.0	1316.0	1322.0	1335.0	1345.0	1345.0
152.5°	1456.8	1404.6	1360.0	1348.0	1346.0	1351.0	1357.8	1357.0
155°	1541.0	1480.0	1429.0	1407.0	1394.0	1390.0	1388.0	1384.0
157.5°	1622.2	1559.0	1501.8	1471.8	1455.4	1445.4	1440.6	1434.4
160°	1679.0	1611.0	1553.0	1519.0	1505.0	1487.0	1483.0	1472.0
162.5°	1723.8	1666.2	1604.2	1570.2	1551.4	1536.6	1531.0	1518.4
165°	1793.0	1743.0	1681.0	1648.0	1625.0	1612.0	1601.0	1596.0
167.5°	1854.4	1811.6	1757.8	1724.0	1712.2	1692.6	1683.4	1676.0
170°	1888.0	1854.0	1809.0	1776.0	1765.0	1751.0	1741.0	1732.0
172.5°	1916.8	1893.2	1851.4	1828.8	1818.6	1806.2	1798.6	1786.4
175°	1955.0	1940.0	1913.0	1893.0	1898.0	1886.0	1884.0	1870.0
177.5°	1982.2	1977.4	1959.0	1951.0	1960.6	1956.6	1955.8	1947.0
180°	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0

(END OF REPORT)