

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: P709402

Luminaire Tested: DL2W-WB-M-150U-075D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709402  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-6, G3-2104-222-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: DL2W-WB-M-150U-075D-940-UNV-STD-W-WM-4  
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9613.1 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.17  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

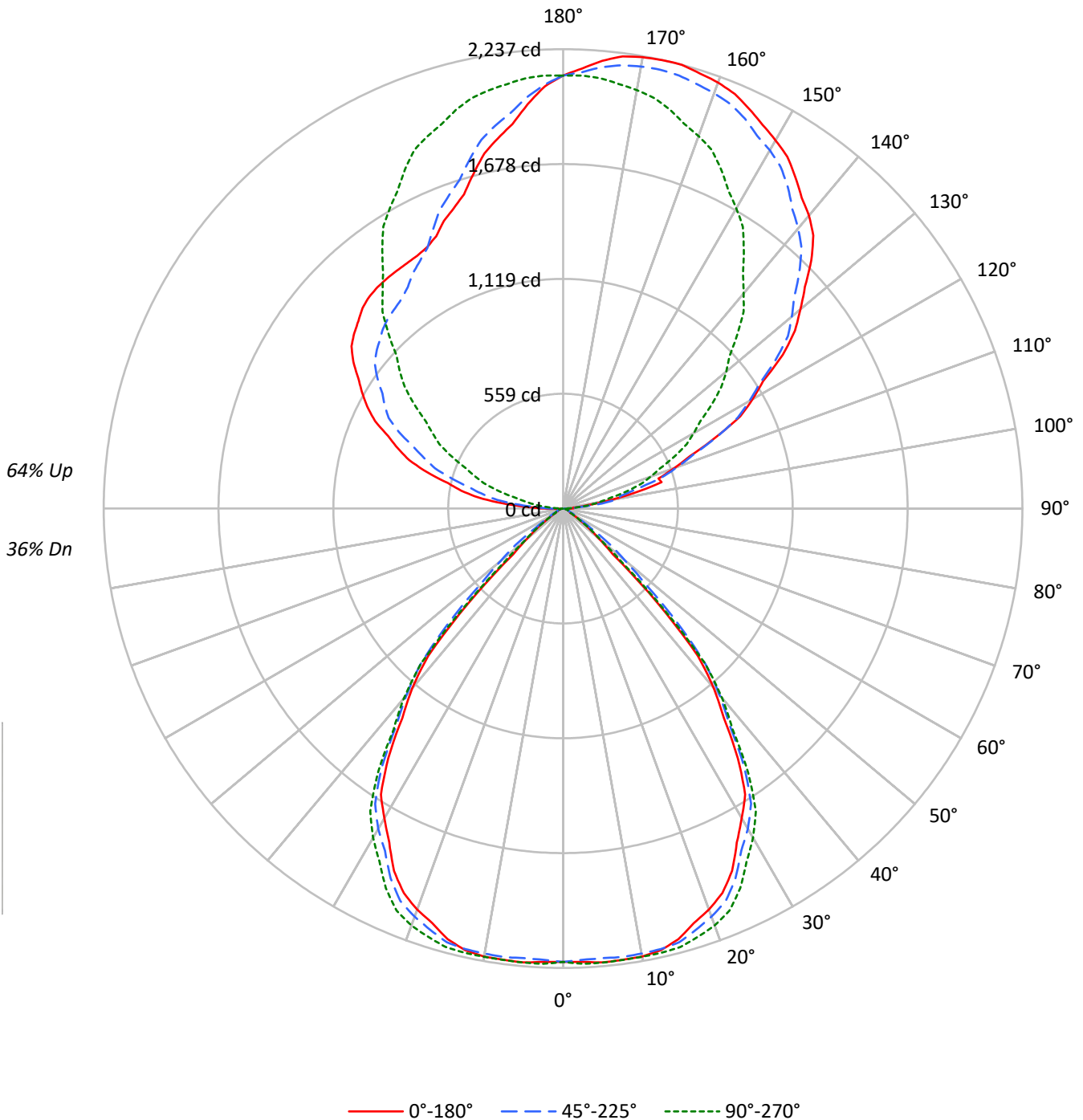
Input Watts (W): 82.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot



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**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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36		
1	96	92	89	86	87	84	81	78	68	66	64	53	52	51	40	40	39	33		
2	88	82	77	72	80	75	70	67	61	58	56	49	47	45	37	36	35	30		
3	82	73	67	62	74	67	62	57	55	51	48	44	42	40	34	33	31	27		
4	75	66	59	54	68	60	54	50	50	46	42	40	38	35	31	30	28	24		
5	70	59	52	47	63	54	48	44	45	41	37	37	34	31	29	27	26	22		
6	64	54	46	41	59	49	43	39	41	37	33	34	31	28	27	25	23	20		
7	60	49	42	37	55	45	39	34	38	33	30	31	28	25	25	23	21	18		
8	56	45	38	33	51	41	35	31	35	30	27	29	25	23	23	21	19	17		
9	52	41	34	29	47	38	32	28	32	28	24	27	23	21	22	19	18	16		
10	49	38	31	27	44	35	29	25	30	25	22	25	22	19	20	18	16	14		

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

	0°	45°	90°	135°	180°
0°	35645	35645	35645	35645	35645
5°	35953	35614	35971	35614	35953
10°	36316	36070	36334	36070	36316
15°	36284	36546	36939	36546	36284
20°	35697	36327	37115	36327	35697
25°	34693	35389	36351	35389	34693
30°	32438	33557	34491	33557	32438
35°	29268	30364	31020	30364	29268
40°	24091	25004	25429	25004	24091
45°	14936	18007	15901	18007	14936
50°	5689	9854	6222	9854	5689
55°	3040	4571	3068	4571	3040
60°	1298	2222	1437	2222	1298
65°	1215	1360	1295	1360	1215
70°	1199	1293	1251	1293	1199
75°	1123	1248	1254	1248	1123
80°	1079	1190	1181	1190	1079
85°	982	1000	1186	1000	982

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 50°  
 Vertical Angle: 45°  
 Luminance: 18100 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.1	2.2
10°-20°	617.2	6.4
20°-30°	912.6	9.5
30°-40°	944.2	9.8
40°-50°	568.0	5.9
50°-60°	135.8	1.4
60°-70°	37.1	0.4
70°-80°	20.8	0.2
80°-90°	15.3	0.2
90°-100°	166.8	1.7
100°-110°	487.2	5.1
110°-120°	797.3	8.3
120°-130°	1012.7	10.5
130°-140°	1084.1	11.3
140°-150°	1012.5	10.5
150°-160°	833.2	8.7
160°-170°	558.9	5.8
170°-180°	198.4	2.1
0°-30°	1740.9	18.1
0°-40°	2685.2	27.9
0°-60°	3388.9	35.3
0°-90°	3462.1	36.0
90°-120°	1451.2	15.1
90°-150°	4560.5	47.4
90°-180°	6151.0	64.0
0°-180°	9613.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2208	2208	2208	2208	2208	
5°	2218	2197	2219	2197	2218	211
15°	2171	2186	2210	2186	2171	610
25°	1947	1986	2040	1986	1947	888
35°	1485	1540	1574	1540	1485	913
45°	654	789	696	789	654	500
55°	108	162	109	162	108	105
65°	32	36	34	36	32	32
75°	18	20	20	20	18	19
85°	5	5	6	5	5	7
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°	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7
2.5°	2209.4	2211.3	2213.2	2207.5	2199.2	2199.0	2206.9	2213.5	2216.1	2218.7	2216.1
5°	2218.3	2219.7	2221.1	2211.6	2198.4	2196.3	2205.3	2212.8	2216.1	2219.4	2216.1
7.5°	2216.0	2218.2	2220.3	2213.4	2203.4	2201.9	2208.7	2214.2	2215.6	2217.0	2215.6
10°	2215.1	2216.6	2218.0	2210.6	2200.2	2200.0	2209.9	2217.1	2216.7	2216.2	2216.7
12.5°	2202.4	2205.7	2209.0	2203.8	2195.7	2198.8	2213.2	2223.1	2219.2	2215.4	2219.2
15°	2170.7	2175.4	2180.1	2181.3	2181.3	2191.4	2211.6	2224.9	2217.4	2209.9	2217.4
17.5°	2116.5	2122.2	2128.0	2134.8	2142.1	2159.2	2186.2	2204.2	2195.3	2186.4	2195.3
20°	2077.6	2079.9	2082.3	2091.7	2103.4	2125.1	2156.6	2178.0	2169.0	2160.1	2169.0
22.5°	2026.8	2030.6	2034.5	2045.1	2058.0	2081.3	2115.1	2138.0	2128.3	2118.6	2128.3
25°	1947.4	1952.6	1957.7	1966.1	1975.5	1997.4	2031.7	2055.6	2048.0	2040.5	2048.0
27.5°	1833.1	1840.2	1847.4	1857.2	1867.9	1889.4	1921.6	1944.6	1940.5	1936.4	1940.5
30°	1739.9	1751.2	1762.5	1775.9	1790.0	1809.8	1835.2	1853.8	1851.9	1850.0	1851.9
32.5°	1651.0	1660.1	1669.1	1681.4	1694.7	1712.6	1735.0	1751.3	1749.4	1747.6	1749.4
35°	1484.9	1494.3	1503.7	1517.7	1533.2	1547.8	1561.4	1571.9	1572.8	1573.8	1572.8
37.5°	1286.1	1295.6	1305.1	1316.7	1328.9	1340.4	1351.2	1359.0	1357.7	1356.4	1357.7
40°	1143.0	1145.4	1147.7	1161.7	1179.6	1193.0	1201.9	1208.4	1207.5	1206.5	1207.5
42.5°	972.0	983.0	994.0	1007.1	1020.8	1033.8	1046.2	1051.9	1037.8	1023.6	1037.8
45°	654.1	699.2	744.4	768.0	784.5	792.7	792.7	782.0	739.2	696.4	739.2
47.5°	328.9	383.8	438.6	489.0	538.0	549.2	522.8	490.7	442.0	393.3	442.0
50°	226.5	244.8	263.2	318.6	386.3	398.3	354.5	313.5	280.6	247.7	280.6
52.5°	166.4	176.1	185.8	231.1	288.3	293.9	247.9	209.2	192.4	175.7	192.4
55°	108.0	111.7	115.5	135.8	161.7	163.1	140.1	121.2	115.1	109.0	115.1
57.5°	65.6	71.5	77.5	85.7	94.8	94.8	85.7	77.4	71.1	64.8	71.1
60°	40.2	45.4	50.6	58.9	68.3	69.3	61.7	54.8	49.6	44.5	49.6
62.5°	36.8	38.6	40.4	46.5	54.0	54.6	48.2	42.9	40.7	38.5	40.7
65°	31.8	32.7	33.6	34.6	35.5	35.7	35.3	34.8	34.3	33.9	34.3
67.5°	27.9	28.8	29.6	29.9	30.0	30.2	30.6	30.8	30.3	29.8	30.3
70°	25.4	25.9	26.3	26.8	27.3	27.5	27.5	27.4	26.9	26.5	26.9
72.5°	22.0	22.9	23.7	24.0	24.1	24.3	24.7	24.9	24.4	23.9	24.4
75°	18.0	18.5	18.9	19.4	19.9	20.1	20.1	20.1	20.1	20.1	20.1
77.5°	14.2	14.7	15.1	15.2	15.2	15.5	15.9	16.2	15.7	15.2	15.7
80°	11.6	12.1	12.6	12.7	12.7	12.9	13.4	13.6	13.2	12.7	13.2
82.5°	9.1	9.6	10.0	10.2	10.2	10.2	10.3	10.3	10.3	10.2	10.3
85°	5.3	5.3	5.3	5.3	5.3	5.5	6.0	6.4	6.4	6.4	6.4
87.5°	10.6	10.8	10.6	10.1	9.9	9.9	9.0	7.5	5.2	3.2	5.2
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°	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7
2.5°	2213.5	2206.9	2199.0	2199.2	2207.5	2213.2	2211.3	2209.4
5°	2212.8	2205.3	2196.3	2198.4	2211.6	2221.1	2219.7	2218.3
7.5°	2214.2	2208.7	2201.9	2203.4	2213.4	2220.3	2218.2	2216.0
10°	2217.1	2209.9	2200.0	2200.2	2210.6	2218.0	2216.6	2215.1
12.5°	2223.1	2213.2	2198.8	2195.7	2203.8	2209.0	2205.7	2202.4
15°	2224.9	2211.6	2191.4	2181.3	2181.3	2180.1	2175.4	2170.7
17.5°	2204.2	2186.2	2159.2	2142.1	2134.8	2128.0	2122.2	2116.5
20°	2178.0	2156.6	2125.1	2103.4	2091.7	2082.3	2079.9	2077.6
22.5°	2138.0	2115.1	2081.3	2058.0	2045.1	2034.5	2030.6	2026.8
25°	2055.6	2031.7	1997.4	1975.5	1966.1	1957.7	1952.6	1947.4
27.5°	1944.6	1921.6	1889.4	1867.9	1857.2	1847.4	1840.2	1833.1
30°	1853.8	1835.2	1809.8	1790.0	1775.9	1762.5	1751.2	1739.9
32.5°	1751.3	1735.0	1712.6	1694.7	1681.4	1669.1	1660.1	1651.0
35°	1571.9	1561.4	1547.8	1533.2	1517.7	1503.7	1494.3	1484.9
37.5°	1359.0	1351.2	1340.4	1328.9	1316.7	1305.1	1295.6	1286.1
40°	1208.4	1201.9	1193.0	1179.6	1161.7	1147.7	1145.4	1143.0
42.5°	1051.9	1046.2	1033.8	1020.8	1007.1	994.0	983.0	972.0
45°	782.0	792.7	792.7	784.5	768.0	744.4	699.2	654.1
47.5°	490.7	522.8	549.2	538.0	489.0	438.6	383.8	328.9
50°	313.5	354.5	398.3	386.3	318.6	263.2	244.8	226.5
52.5°	209.2	247.9	293.9	288.3	231.1	185.8	176.1	166.4
55°	121.2	140.1	163.1	161.7	135.8	115.5	111.7	108.0
57.5°	77.4	85.7	94.8	94.8	85.7	77.5	71.5	65.6
60°	54.8	61.7	69.3	68.3	58.9	50.6	45.4	40.2
62.5°	42.9	48.2	54.6	54.0	46.5	40.4	38.6	36.8
65°	34.8	35.3	35.7	35.5	34.6	33.6	32.7	31.8
67.5°	30.8	30.6	30.2	30.0	29.9	29.6	28.8	27.9
70°	27.4	27.5	27.5	27.3	26.8	26.3	25.9	25.4
72.5°	24.9	24.7	24.3	24.1	24.0	23.7	22.9	22.0
75°	20.1	20.1	20.1	19.9	19.4	18.9	18.5	18.0
77.5°	16.2	15.9	15.5	15.2	15.2	15.1	14.7	14.2
80°	13.6	13.4	12.9	12.7	12.7	12.6	12.1	11.6
82.5°	10.3	10.3	10.2	10.2	10.2	10.0	9.6	9.1
85°	6.4	6.0	5.5	5.3	5.3	5.3	5.3	5.3
87.5°	7.5	9.4	12.0	14.2	17.1	19.7	20.7	20.3
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: P709402

CATALOG NUMBER: DL2W-WB-M-150U-075D-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)