

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: P709401

Luminaire Tested: DL2W-WB-M-150U-075D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709401
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-935-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: 9093.3 lumens
Efficiency: N/A
Efficacy: 110.0 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

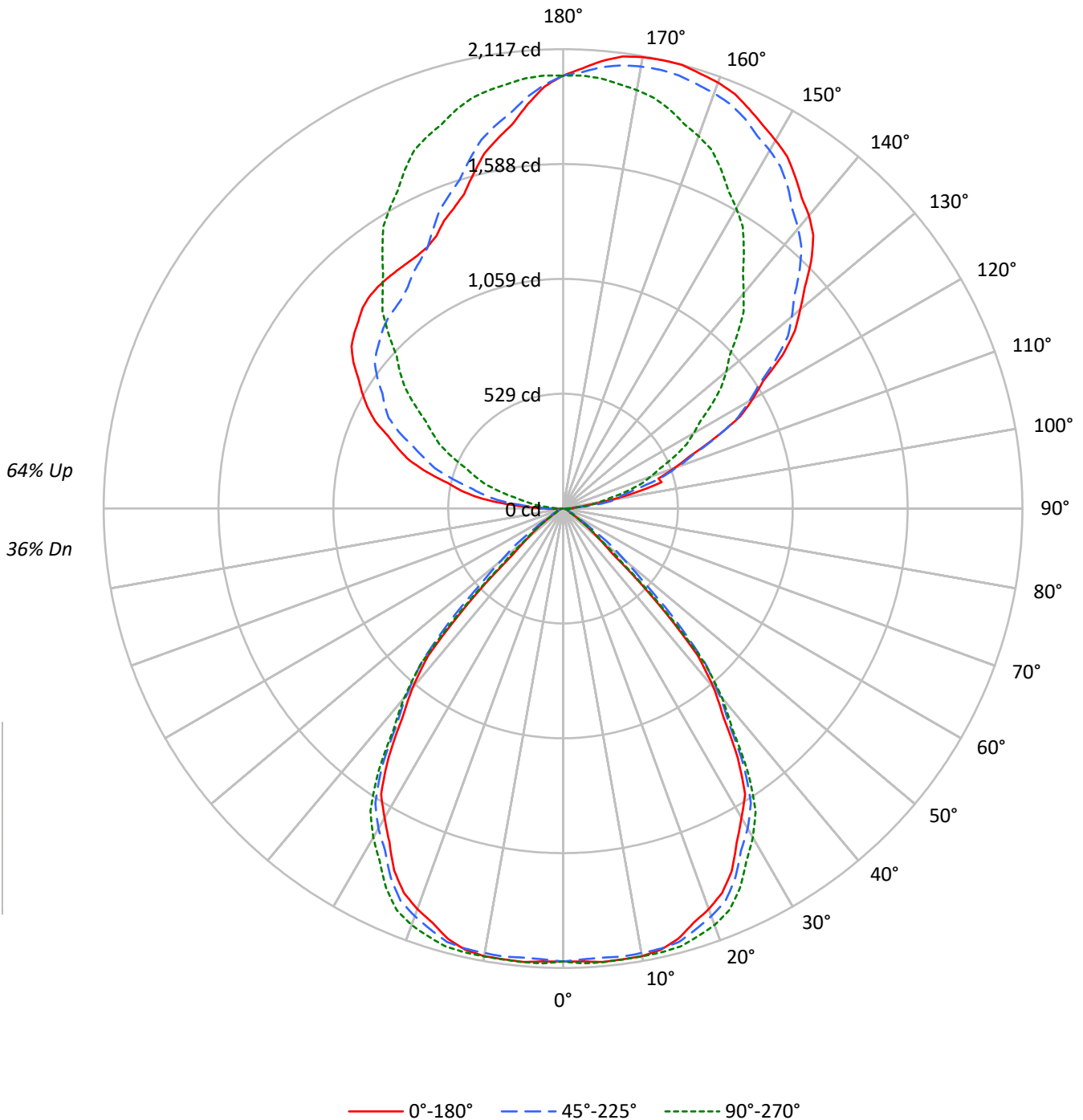
Input Watts (W): 82.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P709401

CATALOG NUMBER: DL2W-WB-M-150U-075D-935-UNV-STD-W-WM-4

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	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	39	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	21	19	20	18	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	33700	33700	33700	33700	33700
5°	33990	33669	34007	33669	33990
10°	34334	34101	34351	34101	34334
15°	34302	34550	34922	34550	34302
20°	33747	34343	35087	34343	33747
25°	32797	33456	34367	33456	32797
30°	30667	31725	32608	31725	30667
35°	27670	28706	29325	28706	27670
40°	22776	23639	24040	23639	22776
45°	14118	17022	15034	17022	14118
50°	5378	9315	5880	9315	5378
55°	2874	4322	2902	4322	2874
60°	1227	2101	1356	2101	1227
65°	1146	1287	1223	1287	1146
70°	1133	1223	1180	1223	1133
75°	1061	1179	1185	1179	1061
80°	1023	1125	1116	1125	1023
85°	926	945	1112	945	926

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 17112 cd/sqm

TEST NUMBER: P709401

CATALOG NUMBER: DL2W-WB-M-150U-075D-935-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.6	2.2
10°-20°	583.5	6.4
20°-30°	862.8	9.5
30°-40°	892.7	9.8
40°-50°	536.9	5.9
50°-60°	128.4	1.4
60°-70°	35.1	0.4
70°-80°	19.6	0.2
80°-90°	14.4	0.2
90°-100°	157.8	1.7
100°-110°	461.0	5.1
110°-120°	754.4	8.3
120°-130°	958.3	10.5
130°-140°	1025.8	11.3
140°-150°	958.0	10.5
150°-160°	788.4	8.7
160°-170°	528.8	5.8
170°-180°	187.7	2.1
0°-30°	1645.8	18.1
0°-40°	2538.5	27.9
0°-60°	3203.8	35.2
0°-90°	3273.0	36.0
90°-120°	1373.2	15.1
90°-150°	4315.3	47.5
90°-180°	5820.0	64.0
0°-180°	9093.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2087	2087	2087	2087	2087	
5°	2097	2077	2098	2077	2097	200
15°	2052	2067	2089	2067	2052	577
25°	1841	1878	1929	1878	1841	840
35°	1404	1456	1488	1456	1404	863
45°	618	746	658	746	618	473
55°	102	154	103	154	102	99
65°	30	34	32	34	30	30
75°	17	19	19	19	17	18
85°	5	5	6	5	5	7
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	

TEST NUMBER: P709401

CATALOG NUMBER: DL2W-WB-M-150U-075D-935-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2
2.5°	2088.8	2090.5	2092.3	2086.9	2079.1	2078.9	2086.4	2092.6	2095.1	2097.6	2095.1
5°	2097.2	2098.5	2099.8	2090.8	2078.4	2076.4	2084.8	2091.9	2095.1	2098.2	2095.1
7.5°	2095.0	2097.0	2099.1	2092.5	2083.1	2081.6	2088.1	2093.3	2094.6	2096.0	2094.6
10°	2094.2	2095.5	2096.8	2089.8	2080.1	2079.8	2089.2	2096.1	2095.6	2095.2	2095.6
12.5°	2082.2	2085.3	2088.4	2083.4	2075.8	2078.8	2092.4	2101.7	2098.0	2094.4	2098.0
15°	2052.1	2056.6	2061.0	2062.2	2062.2	2071.7	2090.8	2103.4	2096.3	2089.2	2096.3
17.5°	2000.9	2006.3	2011.8	2018.3	2025.1	2041.3	2066.8	2083.9	2075.4	2067.0	2075.4
20°	1964.1	1966.3	1968.5	1977.4	1988.6	2009.0	2038.8	2059.0	2050.6	2042.1	2050.6
22.5°	1916.1	1919.7	1923.4	1933.4	1945.6	1967.7	1999.6	2021.2	2012.1	2002.9	2012.1
25°	1841.0	1845.9	1850.8	1858.7	1867.6	1888.3	1920.7	1943.3	1936.2	1929.1	1936.2
27.5°	1733.0	1739.7	1746.5	1755.8	1765.9	1786.2	1816.6	1838.4	1834.5	1830.6	1834.5
30°	1644.9	1655.6	1666.3	1678.9	1692.3	1711.0	1735.0	1752.5	1750.8	1749.0	1750.8
32.5°	1560.9	1569.4	1577.9	1589.6	1602.2	1619.1	1640.2	1655.7	1653.9	1652.1	1653.9
35°	1403.8	1412.7	1421.6	1434.8	1449.5	1463.3	1476.2	1486.1	1486.9	1487.8	1486.9
37.5°	1215.9	1224.9	1233.8	1244.8	1256.3	1267.2	1277.4	1284.8	1283.6	1282.3	1283.6
40°	1080.6	1082.8	1085.1	1098.3	1115.2	1127.9	1136.3	1142.4	1141.5	1140.6	1141.5
42.5°	918.9	929.3	939.7	952.1	965.0	977.4	989.0	994.4	981.1	967.7	981.1
45°	618.3	661.0	703.7	726.1	741.6	749.4	749.4	739.3	698.8	658.4	698.8
47.5°	311.0	362.8	414.7	462.3	508.6	519.2	494.2	463.9	417.9	371.8	417.9
50°	214.1	231.5	248.8	301.2	365.2	376.5	335.2	296.4	265.3	234.1	265.3
52.5°	157.3	166.4	175.6	218.5	272.5	277.8	234.3	197.8	181.9	166.1	181.9
55°	102.1	105.6	109.2	128.4	152.9	154.2	132.4	114.6	108.8	103.1	108.8
57.5°	62.0	67.6	73.2	81.0	89.6	89.6	81.0	73.2	67.2	61.2	67.2
60°	38.0	42.9	47.8	55.7	64.6	65.5	58.4	51.8	46.9	42.0	46.9
62.5°	34.8	36.5	38.2	44.0	51.1	51.6	45.6	40.5	38.5	36.4	38.5
65°	30.0	30.9	31.8	32.7	33.6	33.8	33.4	32.9	32.5	32.0	32.5
67.5°	26.4	27.2	28.0	28.3	28.4	28.6	28.9	29.1	28.7	28.2	28.7
70°	24.0	24.5	24.9	25.3	25.8	26.0	26.0	25.9	25.5	25.0	25.5
72.5°	20.8	21.6	22.4	22.7	22.8	23.0	23.3	23.5	23.1	22.6	23.1
75°	17.0	17.5	17.9	18.3	18.8	19.0	19.0	19.0	19.0	19.0	19.0
77.5°	13.4	13.9	14.3	14.4	14.4	14.6	15.1	15.3	14.9	14.4	14.9
80°	11.0	11.5	11.9	12.0	12.0	12.2	12.7	12.9	12.5	12.0	12.5
82.5°	8.6	9.0	9.5	9.6	9.6	9.6	9.7	9.8	9.7	9.6	9.7
85°	5.0	5.0	5.0	5.0	5.0	5.2	5.7	6.0	6.0	6.0	6.0
87.5°	10.0	10.2	10.0	9.6	9.4	9.4	8.5	7.1	5.0	3.0	5.0
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

TEST NUMBER: P709401

CATALOG NUMBER: DL2W-WB-M-150U-075D-935-UNV-STD-W-WM-4

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

TEST NUMBER: P709401

CATALOG NUMBER: DL2W-WB-M-150U-075D-935-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2
2.5°	2092.6	2086.4	2078.9	2079.1	2086.9	2092.3	2090.5	2088.8
5°	2091.9	2084.8	2076.4	2078.4	2090.8	2099.8	2098.5	2097.2
7.5°	2093.3	2088.1	2081.6	2083.1	2092.5	2099.1	2097.0	2095.0
10°	2096.1	2089.2	2079.8	2080.1	2089.8	2096.8	2095.5	2094.2
12.5°	2101.7	2092.4	2078.8	2075.8	2083.4	2088.4	2085.3	2082.2
15°	2103.4	2090.8	2071.7	2062.2	2062.2	2061.0	2056.6	2052.1
17.5°	2083.9	2066.8	2041.3	2025.1	2018.3	2011.8	2006.3	2000.9
20°	2059.0	2038.8	2009.0	1988.6	1977.4	1968.5	1966.3	1964.1
22.5°	2021.2	1999.6	1967.7	1945.6	1933.4	1923.4	1919.7	1916.1
25°	1943.3	1920.7	1888.3	1867.6	1858.7	1850.8	1845.9	1841.0
27.5°	1838.4	1816.6	1786.2	1765.9	1755.8	1746.5	1739.7	1733.0
30°	1752.5	1735.0	1711.0	1692.3	1678.9	1666.3	1655.6	1644.9
32.5°	1655.7	1640.2	1619.1	1602.2	1589.6	1577.9	1569.4	1560.9
35°	1486.1	1476.2	1463.3	1449.5	1434.8	1421.6	1412.7	1403.8
37.5°	1284.8	1277.4	1267.2	1256.3	1244.8	1233.8	1224.9	1215.9
40°	1142.4	1136.3	1127.9	1115.2	1098.3	1085.1	1082.8	1080.6
42.5°	994.4	989.0	977.4	965.0	952.1	939.7	929.3	918.9
45°	739.3	749.4	749.4	741.6	726.1	703.7	661.0	618.3
47.5°	463.9	494.2	519.2	508.6	462.3	414.7	362.8	311.0
50°	296.4	335.2	376.5	365.2	301.2	248.8	231.5	214.1
52.5°	197.8	234.3	277.8	272.5	218.5	175.6	166.4	157.3
55°	114.6	132.4	154.2	152.9	128.4	109.2	105.6	102.1
57.5°	73.2	81.0	89.6	89.6	81.0	73.2	67.6	62.0
60°	51.8	58.4	65.5	64.6	55.7	47.8	42.9	38.0
62.5°	40.5	45.6	51.6	51.1	44.0	38.2	36.5	34.8
65°	32.9	33.4	33.8	33.6	32.7	31.8	30.9	30.0
67.5°	29.1	28.9	28.6	28.4	28.3	28.0	27.2	26.4
70°	25.9	26.0	26.0	25.8	25.3	24.9	24.5	24.0
72.5°	23.5	23.3	23.0	22.8	22.7	22.4	21.6	20.8
75°	19.0	19.0	19.0	18.8	18.3	17.9	17.5	17.0
77.5°	15.3	15.1	14.6	14.4	14.4	14.3	13.9	13.4
80°	12.9	12.7	12.2	12.0	12.0	11.9	11.5	11.0
82.5°	9.8	9.7	9.6	9.6	9.6	9.5	9.0	8.6
85°	6.0	5.7	5.2	5.0	5.0	5.0	5.0	5.0
87.5°	7.1	8.9	11.4	13.4	16.2	18.6	19.6	19.2
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: P709401

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