

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: P709317

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

Issue Date: 3/5/2020

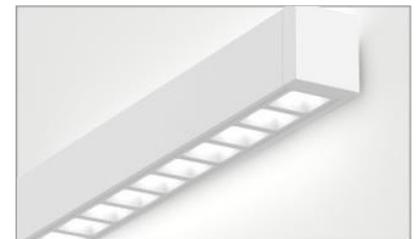
Test Information

Test Method: LM-79-2019
Report Number: P709317
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-6, G3-2104-222-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-BB-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: 8818.9 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.22 / 1.16
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

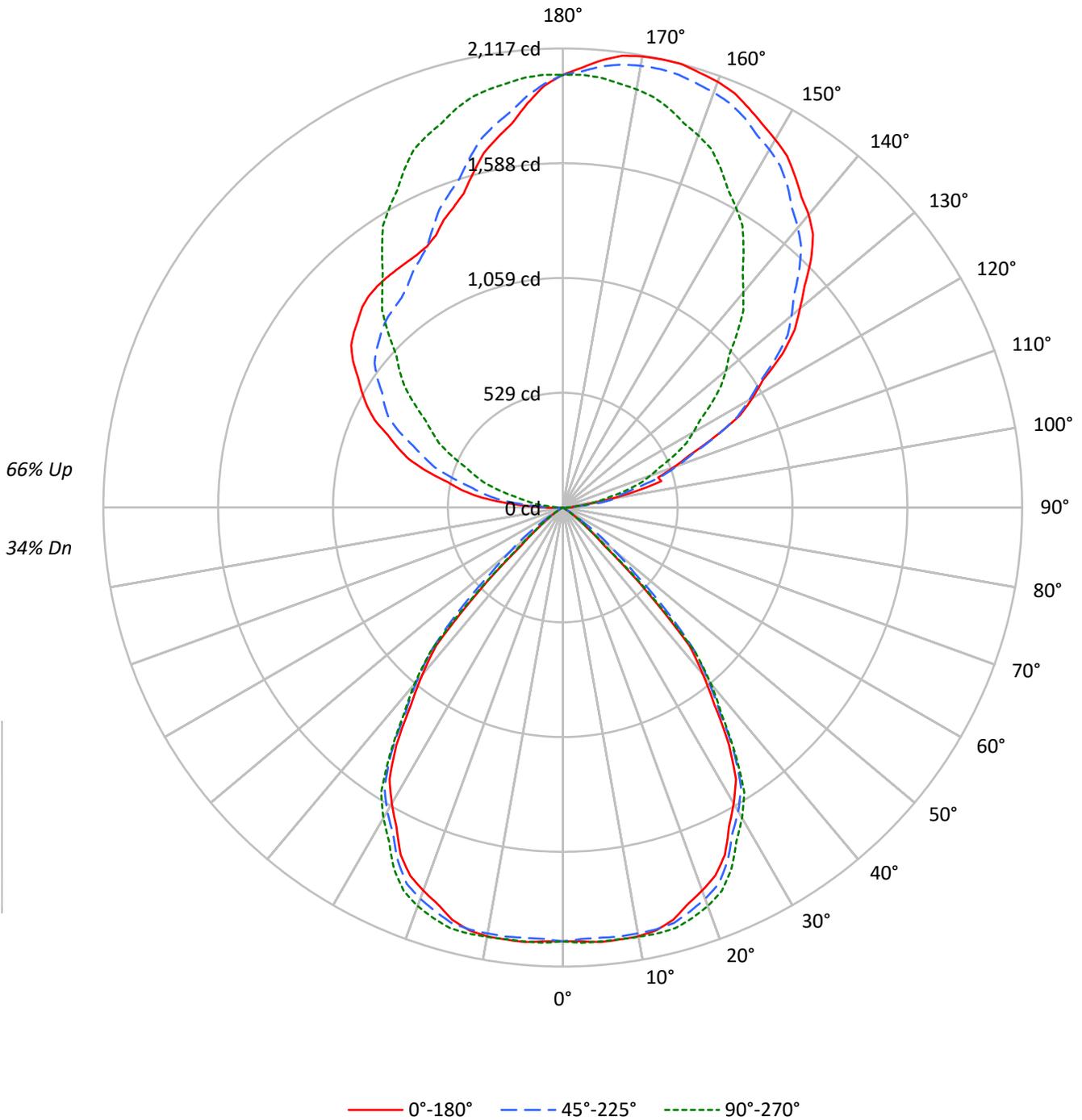
Input Watts (W): 82.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P709317

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

Luminous Intensity Polar Plot



TEST NUMBER: P709317

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

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	0
RCR																		
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	96	92	88	86	86	83	80	78	67	65	64	52	51	50	39	38	37	31
2	88	82	77	72	80	74	70	66	60	57	55	48	46	44	36	35	34	28
3	81	73	67	62	74	67	61	57	55	51	48	43	41	39	33	32	30	26
4	75	66	59	54	68	60	54	50	49	45	42	40	37	35	30	29	28	24
5	69	59	52	47	63	54	48	44	45	41	37	36	33	31	28	26	25	22
6	64	54	46	41	58	49	43	39	41	37	33	33	30	28	26	24	23	20
7	60	49	42	37	54	45	39	34	38	33	30	31	28	25	24	22	21	18
8	56	45	38	33	51	41	35	31	35	30	27	28	25	23	23	20	19	17
9	52	41	34	29	47	38	32	28	32	27	24	26	23	21	21	19	17	15
10	49	38	31	27	44	35	29	25	29	25	22	24	21	19	20	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	32301	32301	32301	32301	32301
5°	32603	32277	32554	32277	32603
10°	32914	32697	32964	32697	32914
15°	32889	33148	33558	33148	32889
20°	32294	32991	33601	32991	32294
25°	31486	32023	32771	32023	31486
30°	29369	30159	30805	30159	29369
35°	26315	27115	27340	27115	26315
40°	21220	22041	22422	22041	21220
45°	12545	15594	13369	15594	12545
50°	3946	7975	4172	7975	3946
55°	1576	2805	1576	2805	1576
60°	32	760	97	760	32
65°	0	31	0	31	0
70°	0	0	0	0	0
75°	0	0	0	0	0
80°	0	0	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 15650 cd/sqm

TEST NUMBER: P709317

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.3	2.2
10°-20°	560.3	6.4
20°-30°	824.3	9.3
30°-40°	842.5	9.6
40°-50°	485.4	5.5
50°-60°	83.5	0.9
60°-70°	3.0	0.0
70°-80°	0.0	0.0
80°-90°	10.6	0.1
90°-100°	157.8	1.8
100°-110°	461.0	5.2
110°-120°	754.4	8.6
120°-130°	958.3	10.9
130°-140°	1025.8	11.6
140°-150°	958.0	10.9
150°-160°	788.4	8.9
160°-170°	528.8	6.0
170°-180°	187.7	2.1
0°-30°	1576.0	17.9
0°-40°	2418.5	27.4
0°-60°	2987.4	33.9
0°-90°	3001.0	34.0
90°-120°	1373.2	15.6
90°-150°	4315.3	48.9
90°-180°	5820.0	66.0
0°-180°	8818.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2001	2001	2001	2001	2001	
5°	2012	1992	2009	1992	2012	192
15°	1968	1983	2008	1983	1968	552
25°	1767	1798	1840	1798	1767	805
35°	1335	1376	1387	1376	1335	819
45°	549	683	586	683	549	426
55°	56	100	56	100	56	57
65°	0	1	0	1	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	3
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: P709317

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

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2000.6	2000.6	2000.6	2000.6	2000.6	2000.6	2000.6	2000.6	2000.6	2000.6	2000.6
2.5°	2002.2	2004.0	2005.8	2000.1	1991.9	1991.3	1998.5	2004.4	2006.9	2009.4	2006.9
5°	2011.6	2012.5	2013.4	2004.6	1992.6	1990.4	1997.9	2004.2	2006.4	2008.6	2006.4
7.5°	2009.2	2011.4	2013.7	2006.8	1996.9	1994.7	2000.0	2004.4	2005.9	2007.4	2005.9
10°	2007.6	2009.8	2012.1	2004.9	1994.7	1994.0	2002.9	2009.7	2010.2	2010.6	2010.2
12.5°	1996.4	2000.4	2004.4	1999.3	1991.2	1994.1	2008.0	2017.7	2015.0	2012.2	2015.0
15°	1967.6	1973.4	1979.1	1979.6	1978.2	1988.0	2008.9	2022.7	2015.2	2007.6	2015.2
17.5°	1917.1	1925.3	1933.5	1939.2	1944.1	1960.5	1988.3	2006.5	1995.9	1985.2	1995.9
20°	1879.5	1886.6	1893.7	1901.9	1910.3	1929.9	1960.6	1980.5	1968.0	1955.6	1968.0
22.5°	1837.1	1842.8	1848.5	1857.8	1868.4	1888.3	1917.6	1936.7	1925.3	1913.9	1925.3
25°	1767.4	1770.5	1773.6	1780.4	1788.4	1806.7	1835.1	1854.6	1847.0	1839.5	1847.0
27.5°	1659.3	1663.3	1667.3	1675.8	1685.8	1701.4	1722.8	1738.3	1736.1	1734.0	1736.1
30°	1575.3	1582.8	1590.4	1600.3	1611.0	1624.3	1640.3	1652.3	1652.3	1652.3	1652.3
32.5°	1485.6	1493.1	1500.7	1511.4	1523.1	1534.7	1546.1	1554.9	1556.0	1557.0	1556.0
35°	1335.1	1341.7	1348.4	1358.8	1370.3	1381.0	1390.8	1396.9	1392.0	1387.1	1392.0
37.5°	1150.1	1155.7	1161.3	1172.1	1184.5	1194.4	1201.8	1206.9	1205.0	1203.2	1205.0
40°	1006.8	1015.3	1023.7	1032.5	1041.4	1050.1	1058.5	1064.7	1064.3	1063.8	1064.3
42.5°	863.5	867.0	870.4	882.0	896.2	907.4	915.5	919.3	910.3	901.3	910.3
45°	549.4	595.3	641.1	664.5	680.5	685.4	679.2	664.6	625.1	585.5	625.1
47.5°	258.8	307.3	355.8	402.1	447.8	456.0	426.9	392.8	343.5	294.2	343.5
50°	157.1	173.6	190.0	245.2	313.3	321.7	270.5	224.8	195.5	166.1	195.5
52.5°	105.9	115.2	124.6	164.9	215.5	218.4	173.7	136.9	123.9	110.9	123.9
55°	56.0	58.7	61.4	78.1	99.4	99.9	79.4	63.2	59.6	56.0	59.6
57.5°	21.0	25.4	29.7	36.5	44.1	43.8	35.8	28.6	23.8	19.0	23.8
60°	1.0	5.0	9.0	15.7	23.2	23.9	17.7	11.9	7.5	3.0	7.5
62.5°	0.2	1.4	2.5	7.4	13.5	13.7	7.8	3.1	1.8	0.6	1.8
65°	0.0	0.0	0.0	0.3	0.8	0.8	0.3	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.4	8.6	8.4	8.0	7.8	7.6	6.4	4.8	3.0	1.4	3.0
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: P709317

CATALOG NUMBER: DL2W-BB-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: P709317

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

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2000.6	2000.6	2000.6	2000.6	2000.6	2000.6	2000.6	2000.6
2.5°	2004.4	1998.5	1991.3	1991.9	2000.1	2005.8	2004.0	2002.2
5°	2004.2	1997.9	1990.4	1992.6	2004.6	2013.4	2012.5	2011.6
7.5°	2004.4	2000.0	1994.7	1996.9	2006.8	2013.7	2011.4	2009.2
10°	2009.7	2002.9	1994.0	1994.7	2004.9	2012.1	2009.8	2007.6
12.5°	2017.7	2008.0	1994.1	1991.2	1999.3	2004.4	2000.4	1996.4
15°	2022.7	2008.9	1988.0	1978.2	1979.6	1979.1	1973.4	1967.6
17.5°	2006.5	1988.3	1960.5	1944.1	1939.2	1933.5	1925.3	1917.1
20°	1980.5	1960.6	1929.9	1910.3	1901.9	1893.7	1886.6	1879.5
22.5°	1936.7	1917.6	1888.3	1868.4	1857.8	1848.5	1842.8	1837.1
25°	1854.6	1835.1	1806.7	1788.4	1780.4	1773.6	1770.5	1767.4
27.5°	1738.3	1722.8	1701.4	1685.8	1675.8	1667.3	1663.3	1659.3
30°	1652.3	1640.3	1624.3	1611.0	1600.3	1590.4	1582.8	1575.3
32.5°	1554.9	1546.1	1534.7	1523.1	1511.4	1500.7	1493.1	1485.6
35°	1396.9	1390.8	1381.0	1370.3	1358.8	1348.4	1341.7	1335.1
37.5°	1206.9	1201.8	1194.4	1184.5	1172.1	1161.3	1155.7	1150.1
40°	1064.7	1058.5	1050.1	1041.4	1032.5	1023.7	1015.3	1006.8
42.5°	919.3	915.5	907.4	896.2	882.0	870.4	867.0	863.5
45°	664.6	679.2	685.4	680.5	664.5	641.1	595.3	549.4
47.5°	392.8	426.9	456.0	447.8	402.1	355.8	307.3	258.8
50°	224.8	270.5	321.7	313.3	245.2	190.0	173.6	157.1
52.5°	136.9	173.7	218.4	215.5	164.9	124.6	115.2	105.9
55°	63.2	79.4	99.9	99.4	78.1	61.4	58.7	56.0
57.5°	28.6	35.8	43.8	44.1	36.5	29.7	25.4	21.0
60°	11.9	17.7	23.9	23.2	15.7	9.0	5.0	1.0
62.5°	3.1	7.8	13.7	13.5	7.4	2.5	1.4	0.2
65°	0.0	0.3	0.8	0.8	0.3	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	6.8	9.6	11.8	14.6	17.0	18.0	17.6
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: P709317

CATALOG NUMBER: DL2W-BB-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)