

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: P709293

Luminaire Tested: DL2W-BB-M-100U-075D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709293  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-4, 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-100U-075D-935-UNV-STD-W-WM-4  
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6867.1 lumens  
Efficiency: N/A  
Efficacy: 113.1 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: General Diffuse

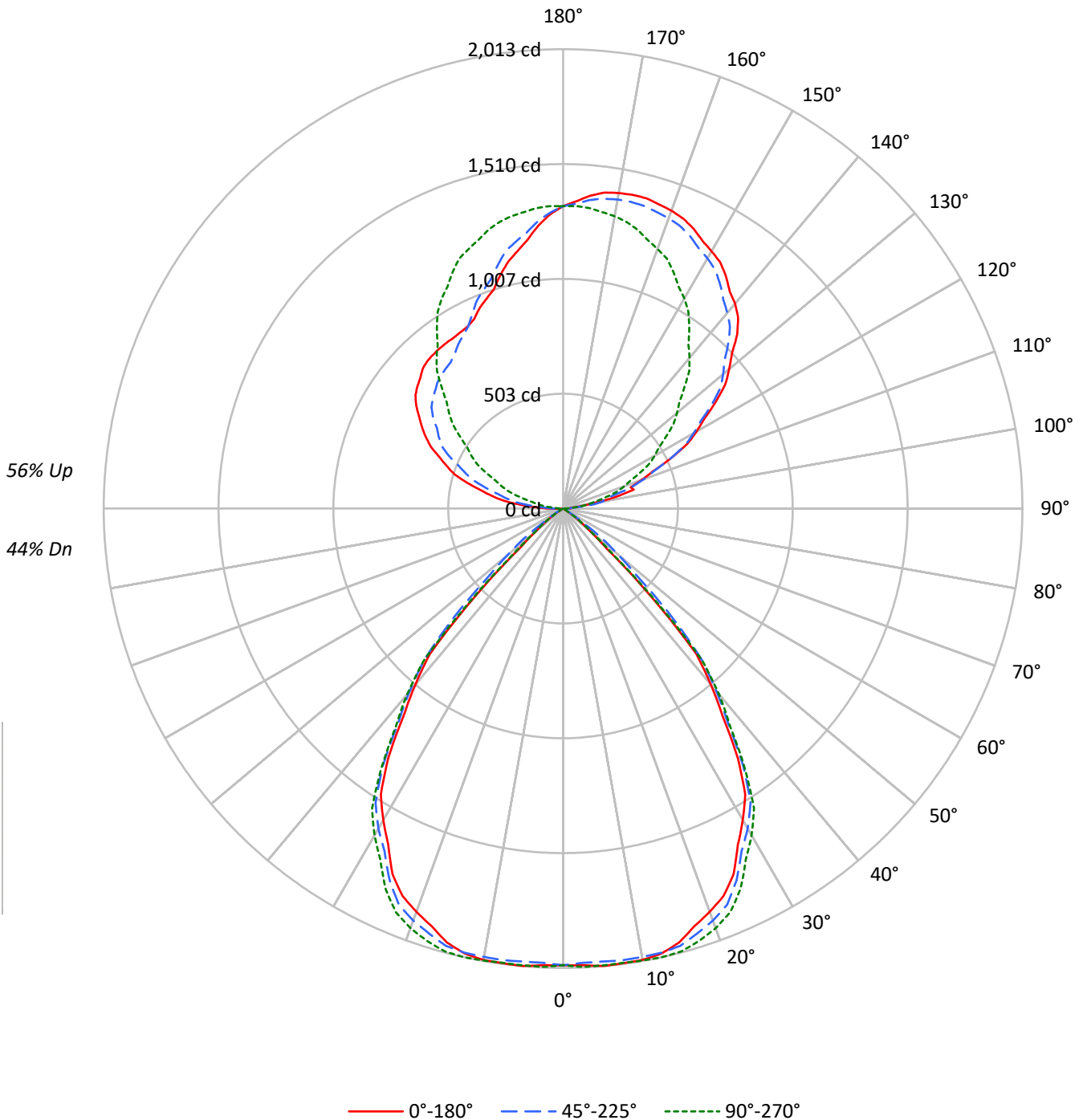
Input Watts (W): 60.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44		
1	98	94	91	88	90	87	84	82	72	71	69	59	58	57	47	46	46	40		
2	91	85	79	75	83	78	74	70	66	63	60	54	52	50	44	42	41	37		
3	84	76	70	65	77	70	65	61	60	56	53	50	47	45	40	39	37	33		
4	78	69	62	57	71	64	58	53	54	50	47	46	43	40	37	35	34	30		
5	72	62	55	50	66	58	52	47	49	45	41	42	39	36	35	33	31	28		
6	67	56	49	44	62	53	46	42	45	41	37	38	35	33	32	30	28	25		
7	62	51	44	39	58	48	42	37	42	37	33	36	32	30	30	27	26	23		
8	58	47	40	35	54	44	38	34	38	34	30	33	29	27	28	25	24	21		
9	54	43	37	32	50	41	35	31	35	31	28	31	27	25	26	23	22	20		
10	51	40	33	29	47	38	32	28	33	28	25	28	25	23	24	22	20	18		

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

	0°	45°	90°	135°	180°
0°	32309	32309	32309	32309	32309
5°	32611	32285	32563	32285	32611
10°	32923	32705	32972	32705	32923
15°	32896	33157	33566	33157	32896
20°	32301	32999	33608	32999	32301
25°	31493	32031	32778	32031	31493
30°	29375	30165	30812	30165	29375
35°	26321	27121	27346	27121	26321
40°	21224	22045	22428	22045	21224
45°	12549	15599	13371	15599	12549
50°	3949	7976	4175	7976	3949
55°	1579	2805	1579	2805	1579
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: 15655 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.3	2.8
10°-20°	560.5	8.2
20°-30°	824.5	12.0
30°-40°	842.7	12.3
40°-50°	485.5	7.1
50°-60°	83.5	1.2
60°-70°	3.0	0.0
70°-80°	0.0	0.0
80°-90°	7.1	0.1
90°-100°	105.4	1.5
100°-110°	307.9	4.5
110°-120°	502.1	7.3
120°-130°	637.2	9.3
130°-140°	681.7	9.9
140°-150°	636.5	9.3
150°-160°	523.7	7.6
160°-170°	351.2	5.1
170°-180°	124.7	1.8
0°-30°	1576.3	23.0
0°-40°	2419.1	35.2
0°-60°	2988.1	43.5
0°-90°	2998.2	43.7
90°-120°	915.4	13.3
90°-150°	2870.9	41.8
90°-180°	3870.0	56.4
0°-180°	6867.1	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	1984	2008	1984	1968	553
25°	1768	1798	1840	1798	1768	805
35°	1335	1376	1387	1376	1335	819
45°	550	683	586	683	550	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	2
90°	28	26	4	36	63	13
95°	31	40	41	136	181	51
105°	321	234	196	350	434	295
115°	522	519	373	556	638	514
125°	818	796	553	694	785	729
135°	1079	1024	752	779	869	826
145°	1244	1200	964	828	888	777
155°	1353	1317	1144	940	919	623
165°	1408	1373	1264	1104	1060	397
175°	1376	1358	1322	1264	1245	132
180°	1325	1325	1325	1325	1325	

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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2001.1	2001.1	2001.1	2001.1	2001.1	2001.1	2001.1	2001.1	2001.1	2001.1	2001.1
2.5°	2002.7	2004.5	2006.2	2000.5	1992.4	1991.8	1998.9	2004.9	2007.4	2009.9	2007.4
5°	2012.1	2013.0	2013.9	2005.1	1993.1	1990.8	1998.4	2004.6	2006.9	2009.1	2006.9
7.5°	2009.7	2011.9	2014.1	2007.3	1997.4	1995.1	2000.5	2004.9	2006.4	2007.9	2006.4
10°	2008.1	2010.3	2012.5	2005.4	1995.2	1994.5	2003.4	2010.2	2010.6	2011.1	2010.6
12.5°	1996.9	2000.9	2004.9	1999.8	1991.7	1994.6	2008.5	2018.2	2015.4	2012.7	2015.4
15°	1968.0	1973.8	1979.6	1980.1	1978.7	1988.5	2009.4	2023.2	2015.6	2008.1	2015.6
17.5°	1917.6	1925.8	1934.0	1939.7	1944.6	1960.9	1988.8	2007.0	1996.3	1985.7	1996.3
20°	1879.9	1887.1	1894.2	1902.3	1910.8	1930.3	1961.0	1980.9	1968.5	1956.0	1968.5
22.5°	1837.5	1843.2	1848.9	1858.3	1868.8	1888.8	1918.1	1937.2	1925.8	1914.4	1925.8
25°	1767.8	1770.9	1774.1	1780.8	1788.9	1807.1	1835.6	1855.0	1847.5	1839.9	1847.5
27.5°	1659.7	1663.7	1667.7	1676.2	1686.2	1701.8	1723.2	1738.7	1736.5	1734.4	1736.5
30°	1575.6	1583.2	1590.8	1600.7	1611.3	1624.7	1640.7	1652.7	1652.7	1652.7	1652.7
32.5°	1485.9	1493.5	1501.1	1511.8	1523.5	1535.1	1546.5	1555.3	1556.3	1557.4	1556.3
35°	1335.4	1342.1	1348.7	1359.1	1370.6	1381.3	1391.1	1397.2	1392.3	1387.4	1392.3
37.5°	1150.4	1156.0	1161.6	1172.3	1184.8	1194.7	1202.1	1207.2	1205.3	1203.4	1205.3
40°	1007.0	1015.5	1023.9	1032.7	1041.6	1050.3	1058.8	1065.0	1064.5	1064.1	1064.5
42.5°	863.7	867.2	870.6	882.2	896.4	907.6	915.7	919.5	910.5	901.5	910.5
45°	549.6	595.4	641.2	664.7	680.7	685.6	679.4	664.8	625.2	585.6	625.2
47.5°	258.9	307.4	355.9	402.2	447.9	456.1	427.0	392.9	343.6	294.3	343.6
50°	157.2	173.6	190.1	245.3	313.3	321.8	270.6	224.9	195.5	166.2	195.5
52.5°	105.9	115.3	124.6	164.9	215.5	218.5	173.7	136.9	123.9	110.9	123.9
55°	56.1	58.7	61.4	78.1	99.4	99.9	79.4	63.2	59.6	56.1	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°	5.6	5.8	5.8	5.2	5.2	5.0	4.2	3.4	2.0	0.8	1.8
90°	28.0	29.0	29.0	26.0	26.0	25.0	21.0	17.0	10.0	4.0	9.0
92.5°	34.4	33.8	33.8	32.4	30.8	28.2	23.4	22.6	24.4	15.2	25.8
95°	31.0	31.0	30.0	30.0	35.0	44.0	65.0	71.0	46.0	41.0	59.0
97.5°	71.0	75.6	84.2	97.2	119.4	127.4	117.8	88.8	84.0	81.0	107.8
100°	135.0	146.0	157.0	170.0	197.0	161.0	125.0	120.0	112.0	113.0	143.0
102.5°	235.8	236.4	241.0	246.0	193.8	171.4	165.8	159.2	146.4	146.6	177.4
105°	321.0	300.0	262.0	236.0	232.0	236.0	236.0	221.0	195.0	196.0	228.0
107.5°	309.8	307.4	309.0	310.0	316.4	317.8	309.2	282.2	255.4	249.8	282.2
110°	365.0	365.0	369.0	370.0	378.0	373.0	362.0	327.0	293.0	285.0	315.0

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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	425.0	425.8	427.4	432.4	436.4	429.0	411.6	373.4	334.6	318.6	347.8
115°	522.0	521.0	521.0	525.0	523.0	515.0	489.0	445.0	395.0	373.0	398.0
117.5°	614.2	609.2	610.4	608.8	611.8	595.8	565.2	511.4	457.8	427.2	445.6
120°	675.0	670.0	672.0	672.0	671.0	651.0	614.0	561.0	501.0	464.0	476.0
122.5°	734.2	730.8	731.2	728.8	726.2	707.0	663.6	608.2	542.6	496.8	504.0
125°	818.0	820.0	814.0	814.0	805.0	786.0	740.0	681.0	610.0	553.0	549.0
127.5°	897.2	900.0	894.0	890.4	883.4	854.8	812.8	753.6	677.4	610.4	594.4
130°	950.0	952.0	950.0	940.0	929.0	902.0	860.0	804.0	723.0	652.0	624.0
132.5°	1002.8	1007.2	997.2	989.6	973.0	945.2	904.0	849.6	768.6	691.2	656.0
135°	1079.0	1076.0	1066.0	1054.0	1037.0	1010.0	972.0	915.0	838.0	752.0	707.0
137.5°	1135.4	1135.8	1126.0	1112.8	1095.4	1070.2	1034.2	980.6	902.2	818.0	760.2
140°	1173.0	1171.0	1162.0	1148.0	1133.0	1107.0	1075.0	1023.0	943.0	862.0	797.0
142.5°	1199.4	1201.4	1194.0	1182.4	1165.0	1142.2	1109.4	1057.4	987.0	902.8	834.6
145°	1244.0	1244.0	1237.0	1229.0	1213.0	1187.0	1162.0	1111.0	1044.0	964.0	889.0
147.5°	1280.4	1281.0	1276.6	1267.2	1251.6	1229.2	1204.0	1158.4	1096.2	1022.2	949.4
150°	1302.0	1305.0	1299.0	1292.0	1278.0	1254.0	1232.0	1188.0	1129.0	1063.0	987.0
152.5°	1322.8	1326.6	1321.4	1312.8	1298.8	1274.8	1256.0	1212.8	1157.8	1096.6	1023.8
155°	1353.0	1356.0	1352.0	1344.0	1328.0	1306.0	1289.0	1249.0	1200.0	1144.0	1079.0
157.5°	1375.4	1380.2	1374.4	1367.2	1350.0	1330.6	1314.6	1277.4	1233.6	1186.8	1128.8
160°	1389.0	1393.0	1388.0	1380.0	1362.0	1345.0	1329.0	1295.0	1256.0	1210.0	1160.0
162.5°	1397.8	1404.2	1398.4	1389.6	1370.8	1354.6	1341.0	1308.6	1272.8	1234.0	1188.0
165°	1408.0	1413.0	1408.0	1399.0	1380.0	1366.0	1355.0	1327.0	1296.0	1264.0	1225.0
167.5°	1408.0	1414.2	1409.4	1401.6	1381.6	1370.8	1362.4	1339.0	1313.2	1286.6	1257.6
170°	1404.0	1411.0	1407.0	1400.0	1380.0	1370.0	1364.0	1343.0	1322.0	1301.0	1276.0
172.5°	1396.8	1403.8	1399.0	1392.8	1372.8	1366.0	1362.4	1345.4	1327.6	1310.6	1290.4
175°	1376.0	1385.0	1382.0	1375.0	1360.0	1355.0	1356.0	1344.0	1332.0	1322.0	1309.0
177.5°	1348.2	1354.6	1351.4	1349.8	1337.8	1336.2	1341.8	1336.2	1330.6	1326.6	1321.0
180°	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0

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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2001.1	2001.1	2001.1	2001.1	2001.1	2001.1	2001.1	2001.1
2.5°	2004.9	1998.9	1991.8	1992.4	2000.5	2006.2	2004.5	2002.7
5°	2004.6	1998.4	1990.8	1993.1	2005.1	2013.9	2013.0	2012.1
7.5°	2004.9	2000.5	1995.1	1997.4	2007.3	2014.1	2011.9	2009.7
10°	2010.2	2003.4	1994.5	1995.2	2005.4	2012.5	2010.3	2008.1
12.5°	2018.2	2008.5	1994.6	1991.7	1999.8	2004.9	2000.9	1996.9
15°	2023.2	2009.4	1988.5	1978.7	1980.1	1979.6	1973.8	1968.0
17.5°	2007.0	1988.8	1960.9	1944.6	1939.7	1934.0	1925.8	1917.6
20°	1980.9	1961.0	1930.3	1910.8	1902.3	1894.2	1887.1	1879.9
22.5°	1937.2	1918.1	1888.8	1868.8	1858.3	1848.9	1843.2	1837.5
25°	1855.0	1835.6	1807.1	1788.9	1780.8	1774.1	1770.9	1767.8
27.5°	1738.7	1723.2	1701.8	1686.2	1676.2	1667.7	1663.7	1659.7
30°	1652.7	1640.7	1624.7	1611.3	1600.7	1590.8	1583.2	1575.6
32.5°	1555.3	1546.5	1535.1	1523.5	1511.8	1501.1	1493.5	1485.9
35°	1397.2	1391.1	1381.3	1370.6	1359.1	1348.7	1342.1	1335.4
37.5°	1207.2	1202.1	1194.7	1184.8	1172.3	1161.6	1156.0	1150.4
40°	1065.0	1058.8	1050.3	1041.6	1032.7	1023.9	1015.5	1007.0
42.5°	919.5	915.7	907.6	896.4	882.2	870.6	867.2	863.7
45°	664.8	679.4	685.6	680.7	664.7	641.2	595.4	549.6
47.5°	392.9	427.0	456.1	447.9	402.2	355.9	307.4	258.9
50°	224.9	270.6	321.8	313.3	245.3	190.1	173.6	157.2
52.5°	136.9	173.7	218.5	215.5	164.9	124.6	115.3	105.9
55°	63.2	79.4	99.9	99.4	78.1	61.4	58.7	56.1
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°	3.2	4.6	6.2	8.4	10.0	11.2	11.8	12.6
90°	16.0	23.0	31.0	42.0	50.0	56.0	59.0	63.0
92.5°	36.8	51.0	62.2	75.6	90.0	97.6	102.2	103.8
95°	85.0	103.0	126.0	146.0	164.0	176.0	183.0	181.0
97.5°	131.8	165.4	191.6	214.8	235.8	250.2	261.6	260.6
100°	171.0	199.0	234.0	262.0	283.0	299.0	312.0	315.0
102.5°	210.2	236.6	274.8	306.0	330.2	347.8	357.6	367.0
105°	265.0	302.0	331.0	369.0	394.0	417.0	424.0	434.0
107.5°	322.4	363.0	395.2	426.8	456.4	475.6	490.6	498.6
110°	360.0	399.0	440.0	470.0	498.0	518.0	533.0	541.0



TEST NUMBER: P709293

CATALOG NUMBER: DL2W-BB-M-100U-075D-935-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	393.6	436.6	480.8	514.0	539.6	562.8	575.4	584.2
115°	443.0	490.0	534.0	577.0	602.0	620.0	631.0	638.0
117.5°	488.2	537.2	580.0	623.4	654.6	667.8	672.0	677.2
120°	517.0	566.0	608.0	649.0	685.0	699.0	708.0	714.0
122.5°	542.6	591.6	636.0	674.6	709.0	728.6	739.2	746.8
125°	582.0	628.0	674.0	715.0	743.0	764.0	778.0	785.0
127.5°	615.2	659.4	706.6	746.0	776.2	798.4	810.0	815.4
130°	640.0	677.0	725.0	766.0	797.0	820.0	830.0	833.0
132.5°	664.0	693.8	739.4	782.8	813.8	834.4	845.2	848.2
135°	701.0	718.0	758.0	800.0	832.0	853.0	863.0	869.0
137.5°	741.8	746.2	771.0	812.2	845.2	865.4	875.4	879.0
140°	769.0	767.0	783.0	817.0	850.0	871.0	881.0	883.0
142.5°	797.8	789.4	795.0	822.6	852.4	872.6	883.4	886.2
145°	846.0	828.0	821.0	835.0	857.0	874.0	886.0	888.0
147.5°	897.8	868.8	853.0	855.6	867.6	879.6	889.0	889.2
150°	933.0	900.0	877.0	874.0	878.0	886.0	893.0	894.0
152.5°	966.6	931.2	903.4	895.6	893.2	898.0	901.0	901.2
155°	1023.0	985.0	949.0	932.0	925.0	923.0	922.0	919.0
157.5°	1076.4	1036.0	996.2	977.8	966.6	960.4	955.8	952.6
160°	1110.0	1068.0	1029.0	1009.0	997.0	990.0	983.0	979.0
162.5°	1144.4	1104.8	1065.0	1041.8	1029.8	1022.0	1014.2	1007.8
165°	1190.0	1157.0	1117.0	1092.0	1077.0	1072.0	1065.0	1060.0
167.5°	1230.0	1204.4	1168.6	1145.0	1133.6	1124.4	1117.4	1108.4
170°	1254.0	1234.0	1199.0	1177.0	1172.0	1162.0	1155.0	1146.0
172.5°	1273.2	1257.2	1229.4	1211.4	1207.2	1201.2	1195.8	1188.4
175°	1299.0	1291.0	1270.0	1257.0	1257.0	1255.0	1254.0	1245.0
177.5°	1317.0	1313.0	1301.0	1294.6	1300.2	1301.8	1297.8	1290.6
180°	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0

(END OF REPORT)