

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: P709294

Luminaire Tested: DL2W-BB-M-100U-075D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709294
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-940-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: 7260.2 lumens
Efficiency: N/A
Efficacy: 119.6 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

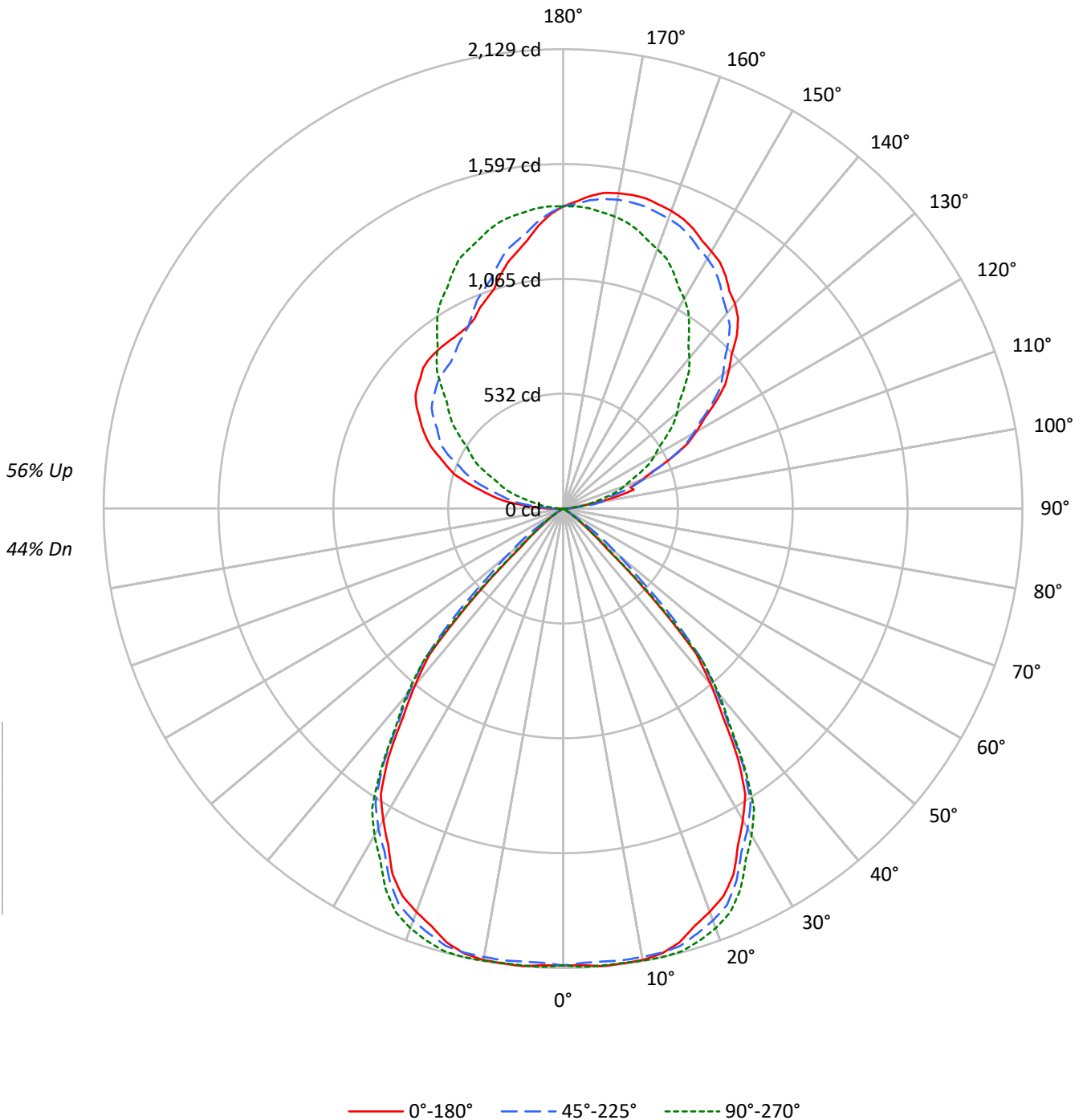
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P709294

CATALOG NUMBER: DL2W-BB-M-100U-075D-940-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	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	36	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	39	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°	34176	34176	34176	34176	34176
5°	34494	34149	34443	34149	34494
10°	34824	34594	34877	34594	34824
15°	34796	35072	35505	35072	34796
20°	34166	34904	35550	34904	34166
25°	33314	33881	34671	33881	33314
30°	31073	31908	32593	31908	31073
35°	27841	28688	28927	28688	27841
40°	22451	23319	23724	23319	22451
45°	13273	16500	14143	16500	13273
50°	4175	8437	4416	8437	4175
55°	1669	2968	1669	2968	1669
60°	36	806	103	806	36
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: 16559 cd/sqm

TEST NUMBER: P709294

CATALOG NUMBER: DL2W-BB-M-100U-075D-940-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.4	2.8
10°-20°	592.8	8.2
20°-30°	872.2	12.0
30°-40°	891.4	12.3
40°-50°	513.5	7.1
50°-60°	88.4	1.2
60°-70°	3.2	0.0
70°-80°	0.0	0.0
80°-90°	7.5	0.1
90°-100°	111.4	1.5
100°-110°	325.4	4.5
110°-120°	530.7	7.3
120°-130°	673.4	9.3
130°-140°	720.5	9.9
140°-150°	672.7	9.3
150°-160°	553.4	7.6
160°-170°	371.2	5.1
170°-180°	131.8	1.8
0°-30°	1667.4	23.0
0°-40°	2558.8	35.2
0°-60°	3160.7	43.5
0°-90°	3171.4	43.7
90°-120°	967.5	13.3
90°-150°	3034.0	41.8
90°-180°	4090.0	56.3
0°-180°	7260.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2117	2117	2117	2117	2117	
5°	2128	2107	2125	2107	2128	203
15°	2082	2098	2124	2098	2082	585
25°	1870	1902	1946	1902	1870	851
35°	1412	1455	1468	1455	1412	866
45°	581	723	619	723	581	451
55°	59	105	59	105	59	61
65°	0	1	0	1	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	2
90°	30	27	4	39	67	14
95°	33	42	43	144	191	54
105°	339	247	207	370	459	311
115°	552	548	394	587	674	544
125°	864	841	584	734	830	771
135°	1140	1082	795	823	918	873
145°	1315	1268	1019	875	938	822
155°	1430	1392	1209	994	971	659
165°	1488	1451	1336	1167	1120	420
175°	1454	1435	1397	1335	1316	140
180°	1400	1400	1400	1400	1400	

TEST NUMBER: P709294

CATALOG NUMBER: DL2W-BB-M-100U-075D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7
2.5°	2118.4	2120.2	2122.1	2116.1	2107.4	2106.9	2114.4	2120.7	2123.4	2126.0	2123.4
5°	2128.3	2129.3	2130.2	2120.9	2108.2	2105.8	2113.8	2120.4	2122.8	2125.1	2122.8
7.5°	2125.8	2128.1	2130.5	2123.2	2112.8	2110.4	2116.0	2120.7	2122.3	2123.9	2122.3
10°	2124.1	2126.4	2128.8	2121.3	2110.4	2109.7	2119.1	2126.3	2126.8	2127.3	2126.8
12.5°	2112.2	2116.5	2120.7	2115.3	2106.8	2109.8	2124.5	2134.8	2131.9	2129.0	2131.9
15°	2081.7	2087.8	2094.0	2094.4	2093.0	2103.4	2125.5	2140.1	2132.1	2124.1	2132.1
17.5°	2028.4	2037.0	2045.7	2051.7	2056.9	2074.2	2103.7	2123.0	2111.7	2100.4	2111.7
20°	1988.5	1996.1	2003.6	2012.2	2021.1	2041.8	2074.3	2095.4	2082.2	2069.0	2082.2
22.5°	1943.6	1949.7	1955.7	1965.6	1976.8	1997.9	2028.9	2049.1	2037.0	2025.0	2037.0
25°	1870.0	1873.2	1876.5	1883.7	1892.2	1911.5	1941.6	1962.2	1954.2	1946.2	1954.2
27.5°	1755.6	1759.8	1764.1	1773.0	1783.6	1800.1	1822.7	1839.1	1836.8	1834.6	1836.8
30°	1666.7	1674.7	1682.7	1693.1	1704.4	1718.5	1735.5	1748.2	1748.2	1748.2	1748.2
32.5°	1571.8	1579.8	1587.8	1599.1	1611.5	1623.8	1635.8	1645.1	1646.3	1647.4	1646.3
35°	1412.5	1419.6	1426.6	1437.6	1449.8	1461.1	1471.5	1477.9	1472.8	1467.6	1472.8
37.5°	1216.8	1222.8	1228.7	1240.1	1253.2	1263.7	1271.6	1276.9	1274.9	1273.0	1274.9
40°	1065.2	1074.2	1083.1	1092.4	1101.8	1111.0	1119.9	1126.5	1126.0	1125.6	1126.0
42.5°	913.6	917.3	920.9	933.1	948.2	960.0	968.6	972.6	963.1	953.6	963.1
45°	581.3	629.8	678.3	703.1	720.0	725.2	718.6	703.2	661.3	619.4	661.3
47.5°	273.8	325.1	376.4	425.5	473.7	482.5	451.7	415.6	363.4	311.3	363.4
50°	166.2	183.7	201.1	259.4	331.4	340.4	286.2	237.9	206.8	175.8	206.8
52.5°	112.0	121.9	131.8	174.4	228.0	231.1	183.7	144.8	131.1	117.3	131.1
55°	59.3	62.1	64.9	82.6	105.2	105.7	84.0	66.8	63.1	59.3	63.1
57.5°	22.2	26.8	31.5	38.6	46.6	46.4	37.9	30.3	25.2	20.1	25.2
60°	1.1	5.3	9.5	16.6	24.6	25.3	18.7	12.6	7.9	3.2	7.9
62.5°	0.2	1.4	2.7	7.8	14.3	14.5	8.3	3.3	2.0	0.6	2.0
65°	0.0	0.0	0.0	0.4	0.8	0.8	0.4	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°	5.9	6.1	6.1	5.5	5.5	5.3	4.4	3.6	2.1	0.8	1.9
90°	29.6	30.6	30.6	27.5	27.5	26.4	22.2	18.0	10.6	4.2	9.5
92.5°	36.4	35.7	35.7	34.2	32.6	29.8	24.7	23.9	25.8	16.1	27.3
95°	32.8	32.8	31.7	31.7	37.0	46.5	68.7	75.0	48.6	43.3	62.4
97.5°	75.0	79.9	89.0	102.7	126.2	134.6	124.5	93.8	88.8	85.6	113.9
100°	142.7	154.3	165.9	179.7	208.2	170.1	132.1	126.8	118.4	119.4	151.1
102.5°	249.2	249.8	254.7	260.0	204.8	181.1	175.2	168.2	154.7	154.9	187.5
105°	339.2	317.0	276.9	249.4	245.2	249.4	249.4	233.6	206.1	207.1	241.0
107.5°	327.4	324.9	326.6	327.6	334.4	335.9	326.8	298.2	269.9	264.0	298.2
110°	385.7	385.7	390.0	391.0	399.5	394.2	382.6	345.6	309.6	301.2	332.9

TEST NUMBER: P709294

CATALOG NUMBER: DL2W-BB-M-100U-075D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	449.1	450.0	451.7	457.0	461.2	453.4	435.0	394.6	353.6	336.7	367.6
115°	551.7	550.6	550.6	554.8	552.7	544.3	516.8	470.3	417.4	394.2	420.6
117.5°	649.1	643.8	645.1	643.4	646.6	629.7	597.3	540.5	483.8	451.5	470.9
120°	713.4	708.1	710.2	710.2	709.1	688.0	648.9	592.9	529.5	490.4	503.0
122.5°	775.9	772.3	772.7	770.2	767.5	747.2	701.3	642.8	573.4	525.0	532.6
125°	864.5	866.6	860.3	860.3	850.7	830.7	782.0	719.7	644.7	584.4	580.2
127.5°	948.2	951.1	944.8	941.0	933.6	903.4	859.0	796.4	715.9	645.1	628.2
130°	1004.0	1006.1	1004.0	993.4	981.8	953.3	908.9	849.7	764.1	689.0	659.5
132.5°	1059.8	1064.4	1053.9	1045.8	1028.3	998.9	955.4	897.9	812.3	730.5	693.3
135°	1140.3	1137.1	1126.6	1113.9	1095.9	1067.4	1027.2	967.0	885.6	794.7	747.2
137.5°	1199.9	1200.3	1190.0	1176.0	1157.6	1131.0	1093.0	1036.3	953.5	864.5	803.4
140°	1239.6	1237.5	1228.0	1213.2	1197.4	1169.9	1136.1	1081.1	996.6	911.0	842.3
142.5°	1267.5	1269.7	1261.8	1249.6	1231.2	1207.1	1172.4	1117.5	1043.1	954.1	882.0
145°	1314.7	1314.7	1307.3	1298.8	1281.9	1254.4	1228.0	1174.1	1103.3	1018.8	939.5
147.5°	1353.2	1353.8	1349.1	1339.2	1322.7	1299.0	1272.4	1224.2	1158.5	1080.3	1003.3
150°	1376.0	1379.2	1372.8	1365.4	1350.6	1325.3	1302.0	1255.5	1193.1	1123.4	1043.1
152.5°	1398.0	1402.0	1396.5	1387.4	1372.6	1347.2	1327.4	1281.7	1223.6	1158.9	1082.0
155°	1429.9	1433.0	1428.8	1420.4	1403.5	1380.2	1362.2	1320.0	1268.2	1209.0	1140.3
157.5°	1453.6	1458.6	1452.5	1444.9	1426.7	1406.2	1389.3	1350.0	1303.7	1254.2	1192.9
160°	1467.9	1472.2	1466.9	1458.4	1439.4	1421.4	1404.5	1368.6	1327.4	1278.8	1225.9
162.5°	1477.2	1484.0	1477.9	1468.6	1448.7	1431.6	1417.2	1383.0	1345.1	1304.1	1255.5
165°	1488.0	1493.3	1488.0	1478.5	1458.4	1443.6	1432.0	1402.4	1369.6	1335.8	1294.6
167.5°	1488.0	1494.6	1489.5	1481.2	1460.1	1448.7	1439.8	1415.1	1387.8	1359.7	1329.1
170°	1483.8	1491.2	1486.9	1479.5	1458.4	1447.8	1441.5	1419.3	1397.1	1374.9	1348.5
172.5°	1476.2	1483.6	1478.5	1471.9	1450.8	1443.6	1439.8	1421.8	1403.0	1385.1	1363.7
175°	1454.2	1463.7	1460.5	1453.1	1437.3	1432.0	1433.0	1420.4	1407.7	1397.1	1383.4
177.5°	1424.8	1431.6	1428.2	1426.5	1413.8	1412.1	1418.0	1412.1	1406.2	1402.0	1396.1
180°	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3

TEST NUMBER: P709294

CATALOG NUMBER: DL2W-BB-M-100U-075D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7
2.5°	2120.7	2114.4	2106.9	2107.4	2116.1	2122.1	2120.2	2118.4
5°	2120.4	2113.8	2105.8	2108.2	2120.9	2130.2	2129.3	2128.3
7.5°	2120.7	2116.0	2110.4	2112.8	2123.2	2130.5	2128.1	2125.8
10°	2126.3	2119.1	2109.7	2110.4	2121.3	2128.8	2126.4	2124.1
12.5°	2134.8	2124.5	2109.8	2106.8	2115.3	2120.7	2116.5	2112.2
15°	2140.1	2125.5	2103.4	2093.0	2094.4	2094.0	2087.8	2081.7
17.5°	2123.0	2103.7	2074.2	2056.9	2051.7	2045.7	2037.0	2028.4
20°	2095.4	2074.3	2041.8	2021.1	2012.2	2003.6	1996.1	1988.5
22.5°	2049.1	2028.9	1997.9	1976.8	1965.6	1955.7	1949.7	1943.6
25°	1962.2	1941.6	1911.5	1892.2	1883.7	1876.5	1873.2	1870.0
27.5°	1839.1	1822.7	1800.1	1783.6	1773.0	1764.1	1759.8	1755.6
30°	1748.2	1735.5	1718.5	1704.4	1693.1	1682.7	1674.7	1666.7
32.5°	1645.1	1635.8	1623.8	1611.5	1599.1	1587.8	1579.8	1571.8
35°	1477.9	1471.5	1461.1	1449.8	1437.6	1426.6	1419.6	1412.5
37.5°	1276.9	1271.6	1263.7	1253.2	1240.1	1228.7	1222.8	1216.8
40°	1126.5	1119.9	1111.0	1101.8	1092.4	1083.1	1074.2	1065.2
42.5°	972.6	968.6	960.0	948.2	933.1	920.9	917.3	913.6
45°	703.2	718.6	725.2	720.0	703.1	678.3	629.8	581.3
47.5°	415.6	451.7	482.5	473.7	425.5	376.4	325.1	273.8
50°	237.9	286.2	340.4	331.4	259.4	201.1	183.7	166.2
52.5°	144.8	183.7	231.1	228.0	174.4	131.8	121.9	112.0
55°	66.8	84.0	105.7	105.2	82.6	64.9	62.1	59.3
57.5°	30.3	37.9	46.4	46.6	38.6	31.5	26.8	22.2
60°	12.6	18.7	25.3	24.6	16.6	9.5	5.3	1.1
62.5°	3.3	8.3	14.5	14.3	7.8	2.7	1.4	0.2
65°	0.0	0.4	0.8	0.8	0.4	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°	3.4	4.9	6.6	8.9	10.6	11.8	12.5	13.3
90°	16.9	24.3	32.8	44.4	52.8	59.2	62.4	66.6
92.5°	38.9	53.9	65.7	79.9	95.1	103.1	108.0	109.7
95°	89.8	108.9	133.2	154.3	173.3	186.0	193.4	191.3
97.5°	139.3	174.8	202.5	227.0	249.2	264.4	276.5	275.4
100°	180.7	210.3	247.3	276.9	299.1	316.0	329.7	332.9
102.5°	222.1	250.0	290.4	323.4	349.0	367.6	377.9	387.9
105°	280.1	319.2	349.8	390.0	416.4	440.7	448.1	458.7
107.5°	340.7	383.6	417.7	451.1	482.3	502.6	518.5	526.9
110°	380.5	421.7	465.0	496.7	526.3	547.4	563.3	571.7

TEST NUMBER: P709294

CATALOG NUMBER: DL2W-BB-M-100U-075D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	416.0	461.4	508.1	543.2	570.3	594.8	608.1	617.4
115°	468.2	517.8	564.3	609.8	636.2	655.2	666.9	674.3
117.5°	515.9	567.7	613.0	658.8	691.8	705.7	710.2	715.7
120°	546.4	598.2	642.5	685.9	723.9	738.7	748.2	754.6
122.5°	573.4	625.2	672.1	712.9	749.3	770.0	781.2	789.2
125°	615.1	663.7	712.3	755.6	785.2	807.4	822.2	829.6
127.5°	650.2	696.9	746.7	788.4	820.3	843.8	856.0	861.7
130°	676.4	715.5	766.2	809.5	842.3	866.6	877.2	880.3
132.5°	701.7	733.2	781.4	827.3	860.0	881.8	893.2	896.4
135°	740.8	758.8	801.1	845.5	879.3	901.5	912.0	918.4
137.5°	783.9	788.6	814.8	858.3	893.2	914.6	925.1	928.9
140°	812.7	810.6	827.5	863.4	898.3	920.5	931.1	933.2
142.5°	843.1	834.3	840.2	869.3	900.8	922.2	933.6	936.6
145°	894.1	875.0	867.6	882.4	905.7	923.7	936.3	938.5
147.5°	948.8	918.2	901.5	904.2	916.9	929.6	939.5	939.7
150°	986.0	951.1	926.8	923.7	927.9	936.3	943.7	944.8
152.5°	1021.5	984.1	954.7	946.5	944.0	949.0	952.2	952.4
155°	1081.1	1041.0	1002.9	985.0	977.6	975.4	974.4	971.2
157.5°	1137.6	1094.9	1052.8	1033.4	1021.5	1015.0	1010.1	1006.7
160°	1173.1	1128.7	1087.5	1066.3	1053.6	1046.3	1038.9	1034.6
162.5°	1209.4	1167.6	1125.5	1101.0	1088.3	1080.1	1071.8	1065.1
165°	1257.6	1222.7	1180.5	1154.0	1138.2	1132.9	1125.5	1120.2
167.5°	1299.9	1272.8	1235.0	1210.1	1198.0	1188.3	1180.9	1171.4
170°	1325.3	1304.1	1267.1	1243.9	1238.6	1228.0	1220.6	1211.1
172.5°	1345.5	1328.6	1299.3	1280.2	1275.8	1269.5	1263.7	1255.9
175°	1372.8	1364.4	1342.2	1328.4	1328.4	1326.3	1325.3	1315.7
177.5°	1391.8	1387.6	1374.9	1368.2	1374.1	1375.8	1371.5	1363.9
180°	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3

(END OF REPORT)