

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: P709267

Luminaire Tested: DL2W-BB-M-075U-050D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

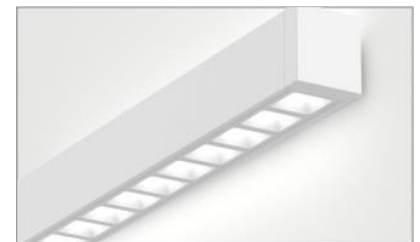
Test Information

Test Method: LM-79-2019
Report Number: P709267
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-3, G3-2104-222-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-BB-M-075U-050D-940-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5183.5 lumens
Efficiency: N/A
Efficacy: 124.3 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

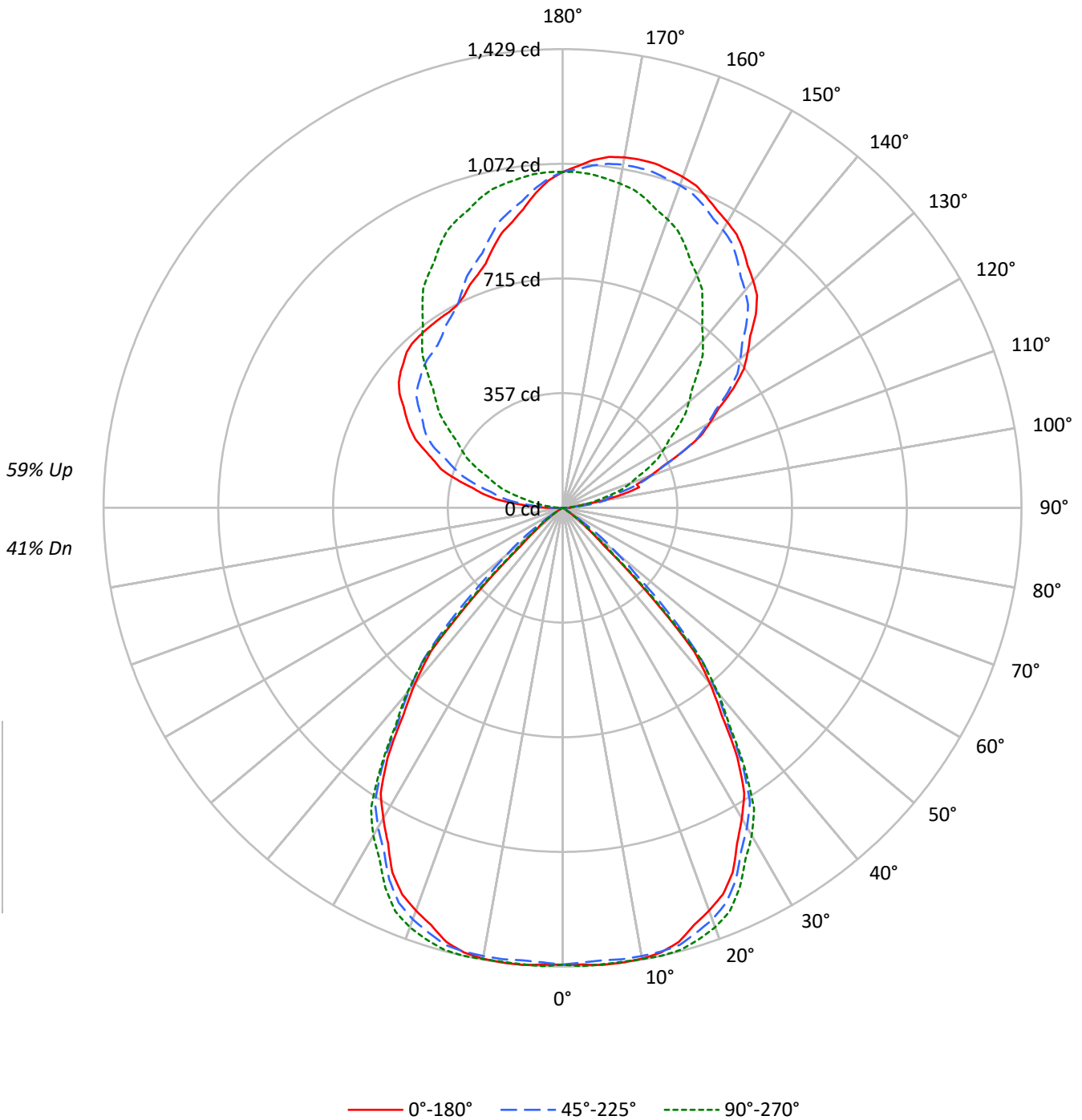
Input Watts (W): 41.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P709267

CATALOG NUMBER: DL2W-BB-M-075U-050D-940-UNV-STD-W-WM-4

Luminous Intensity Polar Plot



TEST NUMBER: P709267

CATALOG NUMBER: DL2W-BB-M-075U-050D-940-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	105	105	105	105	96	96	96	96	78	78	78	63	63	63	48	48	48	41
1	97	94	90	88	89	86	83	81	71	69	67	57	56	55	45	44	44	38
2	90	84	79	74	82	77	73	69	64	61	59	52	50	49	42	40	39	34
3	83	75	69	64	76	69	64	60	58	55	51	48	45	43	38	37	36	31
4	77	68	61	56	71	63	57	52	53	49	45	44	41	39	36	34	32	29
5	71	61	54	49	65	57	51	46	48	44	40	40	37	35	33	31	29	26
6	66	56	49	43	61	52	45	41	44	40	36	37	34	31	31	28	27	24
7	62	51	44	39	57	47	41	37	41	36	32	34	31	28	28	26	24	22
8	58	46	39	35	53	43	37	33	37	33	29	32	28	26	26	24	22	20
9	54	43	36	31	49	40	34	30	34	30	27	29	26	24	25	22	21	18
10	50	39	33	28	46	37	31	27	32	27	24	27	24	22	23	21	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	22976	22976	22976	22976	22976
5°	23165	22933	23131	22933	23165
10°	23381	23242	23399	23242	23381
15°	23397	23564	23821	23564	23397
20°	22941	23437	23886	23437	22941
25°	22335	22751	23257	22751	22335
30°	20810	21414	21973	21414	20810
35°	18705	19250	19476	19250	18705
40°	15051	15665	15898	15665	15051
45°	8720	10992	9373	10992	8720
50°	2816	5669	3162	5669	2816
55°	1132	1996	1072	1996	1132
60°	36	562	103	562	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: 11038 cd/sqm

TEST NUMBER: P709267

CATALOG NUMBER: DL2W-BB-M-075U-050D-940-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	2.6
10°-20°	398.0	7.7
20°-30°	585.7	11.3
30°-40°	598.4	11.5
40°-50°	344.0	6.6
50°-60°	60.1	1.2
60°-70°	2.2	0.0
70°-80°	0.0	0.0
80°-90°	5.5	0.1
90°-100°	83.3	1.6
100°-110°	242.8	4.7
110°-120°	396.3	7.6
120°-130°	502.8	9.7
130°-140°	538.1	10.4
140°-150°	502.4	9.7
150°-160°	413.4	8.0
160°-170°	277.3	5.3
170°-180°	98.4	1.9
0°-30°	1119.7	21.6
0°-40°	1718.1	33.1
0°-60°	2122.1	40.9
0°-90°	2129.9	41.1
90°-120°	722.4	13.9
90°-150°	2265.7	43.7
90°-180°	3055.0	58.9
0°-180°	5183.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1423	1423	1423	1423	1423	
5°	1429	1415	1427	1415	1429	136
15°	1400	1410	1425	1410	1400	393
25°	1254	1277	1306	1277	1254	571
35°	949	977	988	977	949	581
45°	382	481	410	481	382	299
55°	40	71	38	71	40	41
65°	0	1	0	1	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	2
90°	23	21	3	28	45	11
95°	24	32	33	106	143	41
105°	247	186	154	276	340	231
115°	410	411	296	439	505	405
125°	650	629	438	547	619	576
135°	851	810	595	615	686	652
145°	981	947	760	654	701	613
155°	1065	1039	902	742	727	492
165°	1111	1084	998	872	837	314
175°	1088	1071	1043	997	982	104
180°	1046	1046	1046	1046	1046	

TEST NUMBER: P709267

CATALOG NUMBER: DL2W-BB-M-075U-050D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0
2.5°	1423.8	1425.3	1426.8	1423.0	1417.3	1416.9	1421.8	1425.9	1427.4	1428.9	1427.4
5°	1429.3	1430.2	1431.2	1424.7	1415.8	1414.1	1419.8	1424.4	1425.8	1427.2	1425.8
7.5°	1428.7	1430.6	1432.4	1427.1	1419.2	1417.2	1421.0	1424.1	1425.2	1426.3	1425.2
10°	1426.1	1428.0	1429.9	1425.1	1418.0	1417.3	1423.0	1427.2	1427.2	1427.2	1427.2
12.5°	1418.5	1421.2	1423.8	1420.3	1414.7	1416.7	1426.1	1432.6	1430.8	1428.9	1430.8
15°	1399.7	1403.0	1406.3	1406.7	1406.3	1413.1	1427.2	1436.4	1430.7	1425.1	1430.7
17.5°	1362.2	1367.2	1372.2	1376.8	1381.2	1393.0	1412.3	1424.9	1417.2	1409.6	1417.2
20°	1335.2	1339.4	1343.6	1350.0	1357.0	1371.1	1392.3	1406.2	1398.2	1390.2	1398.2
22.5°	1303.8	1308.4	1313.1	1318.6	1324.6	1338.7	1361.0	1375.8	1368.2	1360.5	1368.2
25°	1253.7	1256.5	1259.3	1264.6	1270.7	1283.4	1302.7	1315.9	1310.7	1305.5	1310.7
27.5°	1177.1	1181.8	1186.5	1192.4	1198.7	1210.2	1227.0	1238.9	1236.2	1233.6	1236.2
30°	1116.2	1122.7	1129.3	1136.3	1143.3	1153.9	1168.0	1178.6	1178.6	1178.6	1178.6
32.5°	1053.5	1059.7	1065.9	1073.6	1081.8	1090.5	1099.7	1107.0	1108.5	1110.0	1108.5
35°	949.0	954.2	959.3	965.9	973.0	980.3	987.8	992.8	990.5	988.1	990.5
37.5°	814.8	818.4	822.0	828.9	837.0	844.9	852.6	857.9	855.6	853.4	855.6
40°	714.1	718.8	723.5	731.1	739.5	747.0	753.6	758.1	756.2	754.3	756.2
42.5°	606.6	612.8	619.0	627.5	636.7	644.4	650.6	652.8	642.6	632.5	642.6
45°	381.9	417.2	452.5	469.0	479.4	483.4	481.0	471.6	441.1	410.5	441.1
47.5°	179.9	214.7	249.6	284.2	318.8	324.9	302.6	277.9	245.9	213.9	245.9
50°	112.1	124.8	137.5	175.6	222.2	229.2	196.8	167.3	146.6	125.9	146.6
52.5°	75.8	82.1	88.4	117.5	154.3	156.8	125.1	99.1	90.1	81.0	90.1
55°	40.2	42.1	44.0	55.7	70.8	71.0	56.4	44.7	41.4	38.1	41.4
57.5°	15.4	18.2	20.9	26.2	32.3	32.2	26.0	20.6	17.4	14.2	17.4
60°	1.1	3.4	5.8	10.9	17.0	17.8	13.0	8.8	6.0	3.2	6.0
62.5°	0.2	0.7	1.2	4.7	9.3	9.7	5.7	2.5	1.6	0.6	1.6
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°	4.6	4.6	4.4	4.2	4.2	4.0	3.4	2.5	1.5	0.6	1.5
90°	23.2	23.2	22.2	21.1	21.1	20.1	16.9	12.7	7.4	3.2	7.4
92.5°	27.5	27.5	26.4	26.2	24.5	22.6	18.6	18.6	18.4	11.6	20.1
95°	24.3	24.3	24.3	24.3	28.5	35.9	52.8	53.9	35.9	32.8	46.5
97.5°	55.6	58.8	65.7	78.2	96.0	99.3	94.1	70.2	67.2	62.6	85.2
100°	113.1	116.2	121.5	137.4	150.1	124.7	98.3	97.2	90.9	88.8	113.1
102.5°	185.8	186.4	190.0	194.9	150.9	136.5	130.4	126.0	116.2	115.0	139.3
105°	247.3	239.9	206.1	184.9	186.0	186.0	181.8	173.3	155.4	154.3	181.8
107.5°	242.0	241.2	242.4	245.6	251.1	249.8	245.0	222.4	201.2	196.4	221.1
110°	288.5	288.5	290.6	293.8	295.9	293.8	286.4	257.9	232.5	225.1	247.3

TEST NUMBER: P709267

CATALOG NUMBER: DL2W-BB-M-075U-050D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	336.7	335.0	337.1	339.4	344.1	337.8	325.3	292.5	263.8	253.0	275.2
115°	410.0	410.0	411.1	411.1	412.2	409.0	383.6	349.8	311.8	295.9	314.9
117.5°	484.7	482.5	483.8	485.1	480.9	472.4	443.0	403.7	361.0	335.6	350.7
120°	529.5	531.6	529.5	531.6	527.4	514.7	486.1	441.7	393.1	363.5	375.2
122.5°	576.0	577.2	576.8	576.4	571.3	556.9	523.3	477.3	429.5	393.1	398.0
125°	649.9	644.7	642.5	641.5	637.3	620.4	585.5	537.9	481.9	437.5	431.2
127.5°	711.9	709.5	705.1	702.8	696.2	675.7	640.0	594.1	532.6	482.3	468.2
130°	752.5	753.5	748.2	745.1	733.4	711.2	676.4	633.0	570.7	513.6	493.5
132.5°	793.0	791.6	789.7	780.6	770.6	746.7	714.4	669.4	606.2	546.6	518.9
135°	850.7	847.6	842.3	833.8	821.1	797.9	767.2	722.9	659.5	595.0	556.9
137.5°	896.6	894.1	888.6	879.7	865.3	845.2	814.4	774.9	714.0	645.9	597.9
140°	923.7	923.7	917.3	906.7	894.1	874.0	846.5	805.3	746.1	680.6	626.7
142.5°	948.2	948.2	941.0	933.0	919.4	901.0	876.9	835.7	778.2	713.6	656.3
145°	980.7	980.7	976.5	970.2	955.4	938.5	918.4	877.2	824.3	759.9	702.8
147.5°	1009.5	1011.8	1006.5	1001.4	989.8	969.9	953.0	913.5	865.3	808.3	749.7
150°	1027.2	1030.4	1025.1	1020.9	1009.3	990.2	973.3	936.3	889.8	837.0	781.0
152.5°	1044.1	1046.5	1042.9	1038.6	1025.3	1006.3	991.9	957.5	915.2	864.9	808.0
155°	1065.3	1070.6	1066.3	1061.0	1048.4	1030.4	1017.7	986.0	946.9	902.5	853.9
157.5°	1086.8	1089.2	1084.9	1078.4	1066.5	1051.1	1037.6	1008.4	974.4	936.1	893.6
160°	1097.0	1100.1	1095.9	1088.5	1075.8	1062.1	1049.4	1021.9	991.3	956.4	917.3
162.5°	1103.7	1107.8	1103.5	1097.0	1081.8	1069.7	1058.7	1033.8	1004.8	973.3	938.5
165°	1110.7	1114.9	1111.8	1104.4	1088.5	1079.0	1069.5	1048.4	1023.0	997.6	968.0
167.5°	1111.1	1116.4	1112.4	1106.3	1090.4	1081.1	1074.1	1056.0	1035.5	1016.0	993.0
170°	1108.6	1113.9	1110.7	1105.4	1089.6	1081.1	1075.8	1061.0	1043.1	1026.2	1008.2
172.5°	1102.7	1107.1	1104.8	1099.5	1084.5	1077.7	1075.0	1061.9	1047.3	1034.6	1019.2
175°	1087.5	1093.8	1089.6	1085.4	1072.7	1068.4	1069.5	1061.0	1050.5	1043.1	1033.6
177.5°	1064.8	1068.2	1067.4	1064.8	1055.5	1055.5	1058.9	1053.9	1050.5	1047.1	1042.9
180°	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2

TEST NUMBER: P709267

CATALOG NUMBER: DL2W-BB-M-075U-050D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0
2.5°	1425.9	1421.8	1416.9	1417.3	1423.0	1426.8	1425.3	1423.8
5°	1424.4	1419.8	1414.1	1415.8	1424.7	1431.2	1430.2	1429.3
7.5°	1424.1	1421.0	1417.2	1419.2	1427.1	1432.4	1430.6	1428.7
10°	1427.2	1423.0	1417.3	1418.0	1425.1	1429.9	1428.0	1426.1
12.5°	1432.6	1426.1	1416.7	1414.7	1420.3	1423.8	1421.2	1418.5
15°	1436.4	1427.2	1413.1	1406.3	1406.7	1406.3	1403.0	1399.7
17.5°	1424.9	1412.3	1393.0	1381.2	1376.8	1372.2	1367.2	1362.2
20°	1406.2	1392.3	1371.1	1357.0	1350.0	1343.6	1339.4	1335.2
22.5°	1375.8	1361.0	1338.7	1324.6	1318.6	1313.1	1308.4	1303.8
25°	1315.9	1302.7	1283.4	1270.7	1264.6	1259.3	1256.5	1253.7
27.5°	1238.9	1227.0	1210.2	1198.7	1192.4	1186.5	1181.8	1177.1
30°	1178.6	1168.0	1153.9	1143.3	1136.3	1129.3	1122.7	1116.2
32.5°	1107.0	1099.7	1090.5	1081.8	1073.6	1065.9	1059.7	1053.5
35°	992.8	987.8	980.3	973.0	965.9	959.3	954.2	949.0
37.5°	857.9	852.6	844.9	837.0	828.9	822.0	818.4	814.8
40°	758.1	753.6	747.0	739.5	731.1	723.5	718.8	714.1
42.5°	652.8	650.6	644.4	636.7	627.5	619.0	612.8	606.6
45°	471.6	481.0	483.4	479.4	469.0	452.5	417.2	381.9
47.5°	277.9	302.6	324.9	318.8	284.2	249.6	214.7	179.9
50°	167.3	196.8	229.2	222.2	175.6	137.5	124.8	112.1
52.5°	99.1	125.1	156.8	154.3	117.5	88.4	82.1	75.8
55°	44.7	56.4	71.0	70.8	55.7	44.0	42.1	40.2
57.5°	20.6	26.0	32.2	32.3	26.2	20.9	18.2	15.4
60°	8.8	13.0	17.8	17.0	10.9	5.8	3.4	1.1
62.5°	2.5	5.7	9.7	9.3	4.7	1.2	0.7	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°	2.3	3.8	4.9	6.3	7.8	8.7	9.5	9.1
90°	11.6	19.0	24.3	31.7	39.1	43.3	47.6	45.4
92.5°	28.5	41.0	48.8	61.3	70.4	78.0	81.4	81.0
95°	65.5	82.4	98.3	113.1	127.9	138.4	144.8	142.7
97.5°	104.0	131.3	151.5	171.4	187.9	197.8	204.2	208.4
100°	131.0	157.5	187.1	206.1	225.1	236.7	247.3	251.5
102.5°	164.0	186.2	215.8	240.7	261.5	273.9	282.8	287.0
105°	210.3	237.8	263.1	289.6	311.8	327.6	337.1	340.3
107.5°	255.3	285.6	310.5	337.8	358.3	375.8	387.4	394.2
110°	283.2	316.0	347.7	369.9	392.1	407.9	419.6	423.8

TEST NUMBER: P709267

CATALOG NUMBER: DL2W-BB-M-075U-050D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	312.0	345.6	379.0	403.7	425.9	441.7	455.1	461.0
115°	348.7	385.7	422.7	455.5	475.6	490.4	499.9	505.2
117.5°	386.4	424.4	459.1	493.3	515.3	526.7	531.2	535.0
120°	410.0	448.1	481.9	513.6	539.0	553.8	559.1	561.2
122.5°	430.3	467.5	503.0	533.1	557.6	575.8	584.4	586.5
125°	458.7	496.7	532.6	561.2	586.5	604.5	614.0	619.3
127.5°	485.5	520.4	558.4	589.3	612.5	628.8	638.1	642.3
130°	504.1	534.7	572.8	604.5	627.7	645.7	654.2	658.4
132.5°	523.5	547.4	583.8	617.2	641.3	657.6	666.9	671.1
135°	552.7	566.5	597.1	632.0	657.3	673.2	681.6	685.9
137.5°	583.8	589.1	608.7	640.4	666.9	683.5	691.2	693.9
140°	606.6	603.4	617.2	644.7	671.1	686.9	695.4	696.4
142.5°	630.3	622.9	628.2	649.7	672.8	688.6	697.1	699.0
145°	669.0	653.1	647.8	660.5	676.4	691.2	698.6	700.7
147.5°	707.9	687.4	672.6	676.6	684.8	694.5	701.7	703.2
150°	736.6	710.2	691.2	690.1	693.3	699.6	706.0	704.9
152.5°	763.7	736.4	712.3	706.2	706.0	708.9	711.9	711.7
155°	807.4	776.8	748.2	736.6	730.3	728.1	728.1	727.1
157.5°	849.3	818.0	787.8	771.5	762.0	756.9	755.4	753.1
160°	877.2	843.3	814.8	796.8	787.3	778.9	775.7	772.5
162.5°	903.4	872.1	840.2	823.0	812.7	805.1	801.9	797.1
165°	939.5	914.1	881.4	863.4	851.8	845.5	841.2	837.0
167.5°	970.6	949.4	922.6	902.9	895.3	888.1	884.1	876.5
170°	989.2	972.3	948.0	930.0	925.8	919.4	912.0	903.6
172.5°	1005.2	991.7	969.9	957.9	953.7	947.3	945.0	938.2
175°	1025.1	1017.7	1001.9	992.4	992.4	991.3	988.1	981.8
177.5°	1040.3	1037.8	1028.5	1023.4	1026.8	1026.8	1026.0	1020.0
180°	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2

(END OF REPORT)