

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: P709273

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

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709273
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-3, G3-2104-222-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-BB-M-075U-100D-940-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7282.9 lumens
Efficiency: N/A
Efficacy: 118.0 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

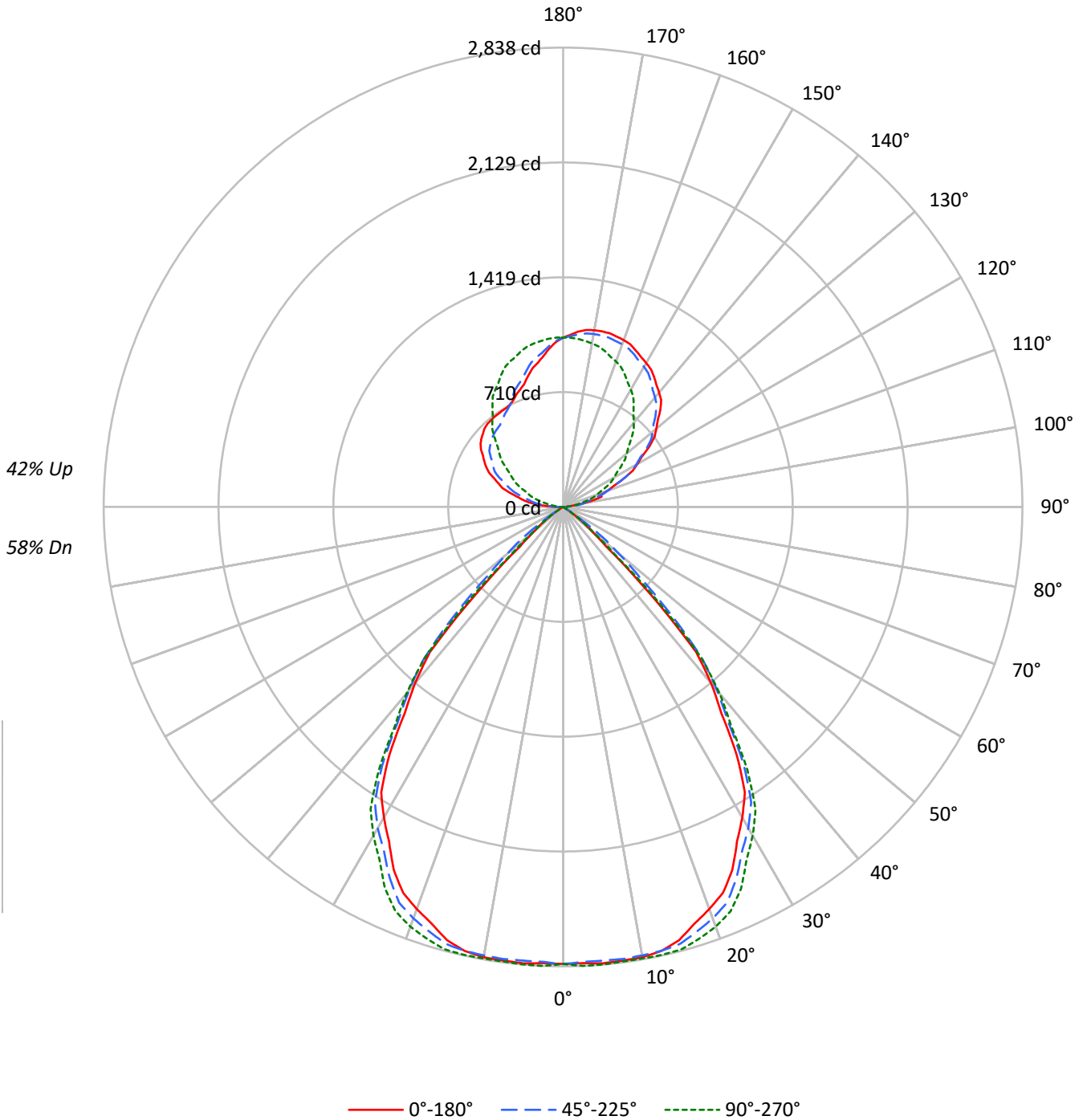
Input Watts (W): 61.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64	58
1	102	98	95	92	95	92	89	87	80	78	77	70	68	67	60	59	58	53
2	95	89	84	80	89	83	79	75	73	70	68	64	62	60	56	54	53	49
3	88	80	74	69	82	76	70	66	67	63	60	59	56	54	52	50	48	44
4	82	73	66	61	77	69	63	58	61	57	53	54	51	48	48	45	43	40
5	76	66	59	54	71	63	57	52	56	51	48	50	46	44	44	42	40	37
6	71	61	54	48	67	57	51	47	52	47	43	46	42	40	41	38	36	34
7	66	56	49	44	62	53	47	42	48	43	39	43	39	36	38	35	33	31
8	62	51	44	39	58	49	42	38	44	39	35	40	36	33	36	33	30	28
9	58	47	40	36	55	45	39	35	41	36	32	37	33	30	33	30	28	26
10	55	44	37	33	52	42	36	32	38	33	30	35	31	28	31	28	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	45585	45585	45585	45585	45585
5°	45861	45589	45981	45589	45861
10°	46306	46116	46427	46116	46306
15°	46308	46711	47281	46711	46308
20°	45402	46466	47402	46466	45402
25°	44078	45113	46340	45113	44078
30°	41277	42684	43684	42684	41277
35°	36904	38397	39135	38397	36904
40°	29988	31183	31748	31183	29988
45°	17342	21768	19322	21768	17342
50°	5634	11381	6164	11381	5634
55°	2204	4056	2145	4056	2204
60°	36	1121	171	1121	36
65°	0	73	0	73	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: 21854 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.8	3.7
10°-20°	789.0	10.8
20°-30°	1163.0	16.0
30°-40°	1191.0	16.4
40°-50°	686.2	9.4
50°-60°	120.0	1.6
60°-70°	4.6	0.1
70°-80°	0.0	0.0
80°-90°	5.5	0.1
90°-100°	83.3	1.1
100°-110°	242.8	3.3
110°-120°	396.3	5.4
120°-130°	502.8	6.9
130°-140°	538.1	7.4
140°-150°	502.4	6.9
150°-160°	413.4	5.7
160°-170°	277.3	3.8
170°-180°	98.4	1.4
0°-30°	2221.9	30.5
0°-40°	3412.9	46.9
0°-60°	4219.1	57.9
0°-90°	4229.2	58.1
90°-120°	722.4	9.9
90°-150°	2265.7	31.1
90°-180°	3055.0	41.9
0°-180°	7282.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2823	2823	2823	2823	2823	
5°	2830	2813	2837	2813	2830	270
15°	2770	2794	2829	2794	2770	778
25°	2474	2532	2601	2532	2474	1129
35°	1872	1948	1986	1948	1872	1150
45°	760	953	846	953	760	597
55°	78	144	76	144	78	81
65°	0	2	0	2	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	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2823.3	2823.3	2823.3	2823.3	2823.3	2823.3	2823.3	2823.3	2823.3	2823.3	2823.3
2.5°	2820.8	2825.3	2829.8	2823.3	2813.1	2813.0	2822.7	2830.9	2834.3	2837.7	2834.3
5°	2829.6	2834.3	2839.0	2828.9	2813.9	2811.8	2822.6	2831.4	2834.2	2837.0	2834.2
7.5°	2826.0	2831.4	2836.8	2829.2	2817.4	2815.6	2824.0	2830.4	2831.1	2831.8	2831.1
10°	2824.4	2828.6	2832.8	2824.7	2812.5	2813.2	2826.8	2836.5	2834.1	2831.8	2834.1
12.5°	2809.1	2815.2	2821.3	2815.7	2806.1	2811.1	2830.8	2844.2	2838.8	2833.5	2838.8
15°	2770.4	2777.9	2785.5	2787.3	2787.3	2801.7	2830.3	2849.3	2838.9	2828.6	2838.9
17.5°	2699.1	2709.2	2719.2	2728.9	2738.4	2761.2	2797.3	2821.3	2809.1	2796.9	2809.1
20°	2642.4	2653.2	2664.0	2677.0	2690.6	2718.1	2759.5	2787.0	2772.9	2758.8	2772.9
22.5°	2580.6	2591.4	2602.3	2616.6	2632.1	2660.9	2703.1	2731.2	2717.5	2703.8	2717.5
25°	2474.2	2486.4	2498.7	2509.1	2519.0	2545.6	2588.8	2619.0	2610.1	2601.2	2610.1
27.5°	2328.2	2339.2	2350.2	2366.0	2383.3	2408.7	2442.3	2466.1	2460.9	2455.6	2460.9
30°	2214.0	2227.6	2241.3	2258.8	2277.6	2301.3	2330.0	2350.6	2346.8	2343.1	2346.8
32.5°	2090.4	2103.3	2116.2	2133.8	2153.0	2173.0	2193.8	2209.7	2211.2	2212.7	2211.2
35°	1872.3	1886.4	1900.5	1919.6	1940.3	1955.8	1966.1	1975.2	1980.3	1985.5	1980.3
37.5°	1607.2	1622.0	1636.8	1653.9	1671.7	1685.8	1696.2	1704.2	1705.1	1706.0	1705.1
40°	1422.8	1432.6	1442.5	1457.0	1472.9	1486.1	1496.4	1504.4	1505.4	1506.3	1505.4
42.5°	1218.0	1224.1	1230.2	1246.5	1266.3	1282.4	1295.0	1300.0	1282.2	1264.3	1282.2
45°	759.5	828.6	897.7	929.8	949.6	957.1	952.4	937.5	891.9	846.2	891.9
47.5°	360.5	433.2	505.9	572.1	636.1	647.1	605.2	558.5	497.6	436.7	497.6
50°	224.3	249.2	274.1	351.2	445.7	460.5	395.6	335.7	290.5	245.4	290.5
52.5°	150.6	163.1	175.6	233.8	307.3	314.0	254.0	203.6	181.8	159.9	181.8
55°	78.3	82.0	85.8	111.1	143.5	144.7	114.6	90.3	83.2	76.2	83.2
57.5°	26.4	33.9	41.3	52.0	63.9	63.8	51.6	40.8	34.1	27.3	34.1
60°	1.1	6.2	11.4	21.9	34.1	35.3	25.4	16.6	10.9	5.3	10.9
62.5°	1.1	2.1	3.1	10.0	18.9	19.3	11.3	4.9	3.4	1.9	3.4
65°	0.0	0.5	0.9	1.4	1.9	1.9	1.4	0.9	0.5	0.0	0.5
67.5°	0.0	0.0	0.0	0.3	0.7	0.8	0.8	0.8	0.4	0.0	0.4
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

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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

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2823.3	2823.3	2823.3	2823.3	2823.3	2823.3	2823.3	2823.3
2.5°	2830.9	2822.7	2813.0	2813.1	2823.3	2829.8	2825.3	2820.8
5°	2831.4	2822.6	2811.8	2813.9	2828.9	2839.0	2834.3	2829.6
7.5°	2830.4	2824.0	2815.6	2817.4	2829.2	2836.8	2831.4	2826.0
10°	2836.5	2826.8	2813.2	2812.5	2824.7	2832.8	2828.6	2824.4
12.5°	2844.2	2830.8	2811.1	2806.1	2815.7	2821.3	2815.2	2809.1
15°	2849.3	2830.3	2801.7	2787.3	2787.3	2785.5	2777.9	2770.4
17.5°	2821.3	2797.3	2761.2	2738.4	2728.9	2719.2	2709.2	2699.1
20°	2787.0	2759.5	2718.1	2690.6	2677.0	2664.0	2653.2	2642.4
22.5°	2731.2	2703.1	2660.9	2632.1	2616.6	2602.3	2591.4	2580.6
25°	2619.0	2588.8	2545.6	2519.0	2509.1	2498.7	2486.4	2474.2
27.5°	2466.1	2442.3	2408.7	2383.3	2366.0	2350.2	2339.2	2328.2
30°	2350.6	2330.0	2301.3	2277.6	2258.8	2241.3	2227.6	2214.0
32.5°	2209.7	2193.8	2173.0	2153.0	2133.8	2116.2	2103.3	2090.4
35°	1975.2	1966.1	1955.8	1940.3	1919.6	1900.5	1886.4	1872.3
37.5°	1704.2	1696.2	1685.8	1671.7	1653.9	1636.8	1622.0	1607.2
40°	1504.4	1496.4	1486.1	1472.9	1457.0	1442.5	1432.6	1422.8
42.5°	1300.0	1295.0	1282.4	1266.3	1246.5	1230.2	1224.1	1218.0
45°	937.5	952.4	957.1	949.6	929.8	897.7	828.6	759.5
47.5°	558.5	605.2	647.1	636.1	572.1	505.9	433.2	360.5
50°	335.7	395.6	460.5	445.7	351.2	274.1	249.2	224.3
52.5°	203.6	254.0	314.0	307.3	233.8	175.6	163.1	150.6
55°	90.3	114.6	144.7	143.5	111.1	85.8	82.0	78.3
57.5°	40.8	51.6	63.8	63.9	52.0	41.3	33.9	26.4
60°	16.6	25.4	35.3	34.1	21.9	11.4	6.2	1.1
62.5°	4.9	11.3	19.3	18.9	10.0	3.1	2.1	1.1
65°	0.9	1.4	1.9	1.9	1.4	0.9	0.5	0.0
67.5°	0.8	0.8	0.8	0.7	0.3	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: P709273

CATALOG NUMBER: DL2W-BB-M-075U-100D-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)