

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: P709351

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

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709351
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-3, G3-2104-222-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-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: 5378.2 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.17
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

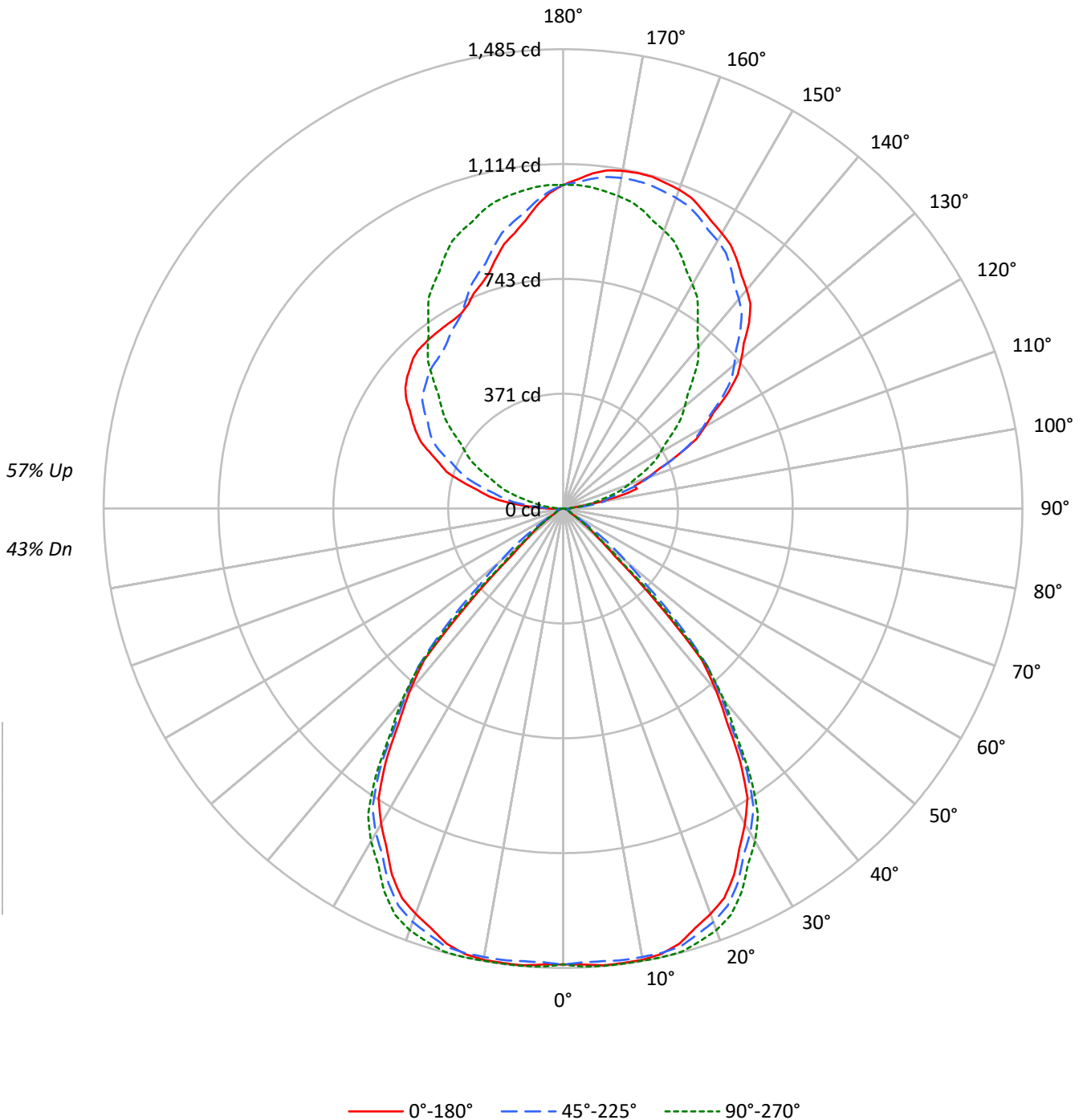
Input Watts (W): 41.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	96	96	96	96	80	80	80	64	64	64	50	50	50	43
1	98	94	91	88	89	86	84	81	72	70	68	59	57	56	46	46	45	39
2	90	84	79	74	83	77	73	69	65	62	59	53	51	50	43	42	40	36
3	84	75	69	64	77	70	64	60	59	55	52	49	46	44	40	38	36	32
4	77	68	61	56	71	63	57	52	53	49	46	45	42	39	36	35	33	29
5	72	61	54	49	66	57	51	46	49	44	41	41	38	35	34	32	30	27
6	66	56	48	43	61	52	45	41	44	40	36	38	34	32	31	29	27	24
7	62	51	44	39	57	47	41	37	41	36	33	35	31	29	29	27	25	22
8	58	46	39	35	53	43	37	33	38	33	29	32	29	26	27	24	23	20
9	54	43	36	31	50	40	34	30	35	30	27	30	26	24	25	23	21	19
10	50	39	33	28	47	37	31	27	32	28	24	28	24	22	23	21	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	23791	23791	23791	23791	23791
5°	24018	23803	24052	23803	24018
10°	24279	24128	24330	24128	24279
15°	24329	24495	24789	24495	24329
20°	23953	24430	24917	24430	23953
25°	23291	23802	24346	23802	23291
30°	21929	22565	23152	22565	21929
35°	19681	20408	20808	20408	19681
40°	16252	16737	17100	16737	16252
45°	9757	12085	10821	12085	9757
50°	3853	6664	4197	6664	3853
55°	2055	3023	2024	3023	2055
60°	888	1506	956	1506	888
65°	810	917	848	917	810
70°	798	854	850	854	798
75°	724	852	792	852	724
80°	688	790	790	790	688
85°	593	778	778	778	593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 12166 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	2.6
10°-20°	414.0	7.7
20°-30°	613.0	11.4
30°-40°	635.0	11.8
40°-50°	381.7	7.1
50°-60°	91.1	1.7
60°-70°	24.9	0.5
70°-80°	13.9	0.3
80°-90°	8.8	0.2
90°-100°	83.3	1.5
100°-110°	242.8	4.5
110°-120°	396.3	7.4
120°-130°	502.8	9.3
130°-140°	538.1	10.0
140°-150°	502.4	9.3
150°-160°	413.4	7.7
160°-170°	277.3	5.2
170°-180°	98.4	1.8
0°-30°	1168.1	21.7
0°-40°	1803.1	33.5
0°-60°	2275.9	42.3
0°-90°	2323.4	43.2
90°-120°	722.4	13.4
90°-150°	2265.7	42.1
90°-180°	3055.0	56.8
0°-180°	5378.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1474	1474	1474	1474	1474	
5°	1482	1469	1484	1469	1482	141
15°	1456	1465	1483	1465	1456	409
25°	1307	1336	1367	1336	1307	597
35°	998	1035	1056	1035	998	615
45°	427	529	474	529	427	337
55°	73	107	72	107	73	70
65°	21	24	22	24	21	22
75°	12	14	13	14	12	13
85°	3	4	4	4	3	4
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°	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5
2.5°	1475.2	1476.7	1478.2	1474.0	1468.0	1467.6	1472.9	1477.4	1479.7	1481.9	1479.7
5°	1481.9	1482.9	1483.8	1477.7	1469.2	1468.1	1474.2	1479.3	1481.7	1484.0	1481.7
7.5°	1481.7	1483.1	1484.5	1479.6	1472.6	1471.6	1476.8	1481.0	1482.5	1484.0	1482.5
10°	1480.9	1482.3	1483.7	1478.8	1471.7	1471.7	1478.8	1484.0	1484.0	1484.0	1484.0
12.5°	1474.1	1476.3	1478.4	1475.1	1469.9	1472.2	1481.9	1488.7	1486.8	1484.9	1486.8
15°	1455.5	1458.8	1462.1	1462.5	1462.1	1468.7	1482.3	1491.5	1487.2	1483.0	1487.2
17.5°	1421.2	1425.7	1430.2	1434.1	1437.8	1449.0	1467.8	1480.3	1473.7	1467.1	1473.7
20°	1394.1	1397.9	1401.7	1407.9	1414.9	1428.8	1449.5	1463.4	1456.8	1450.2	1456.8
22.5°	1362.0	1366.1	1370.3	1376.3	1383.0	1397.4	1419.6	1434.5	1427.5	1420.6	1427.5
25°	1307.4	1311.2	1314.9	1321.5	1329.0	1343.1	1363.8	1377.9	1372.3	1366.6	1372.3
27.5°	1235.5	1239.6	1243.7	1250.1	1257.1	1269.6	1287.4	1300.2	1297.7	1295.1	1297.7
30°	1176.2	1181.9	1187.5	1195.6	1204.6	1216.1	1230.2	1240.9	1241.3	1241.8	1241.3
32.5°	1109.4	1116.9	1124.4	1132.7	1141.3	1152.0	1165.0	1174.6	1173.9	1173.3	1173.9
35°	998.5	1006.5	1014.5	1022.9	1031.3	1039.5	1047.5	1053.8	1054.7	1055.7	1054.7
37.5°	870.1	873.2	876.3	883.9	893.1	901.9	910.5	916.7	916.0	915.4	916.0
40°	771.1	771.6	772.1	779.6	789.4	798.8	807.8	814.1	812.7	811.3	812.7
42.5°	665.3	667.3	669.3	677.5	687.7	696.2	702.9	705.2	694.8	684.4	694.8
45°	427.3	462.1	496.9	514.4	526.2	532.3	532.8	526.5	500.2	473.9	500.2
47.5°	223.6	257.9	292.2	327.0	361.9	370.1	351.5	329.4	296.5	263.6	296.5
50°	153.4	165.1	176.9	214.7	261.3	269.3	238.7	210.4	188.8	167.1	188.8
52.5°	111.9	119.2	126.4	155.8	192.5	195.8	165.6	140.3	129.6	118.9	129.6
55°	73.0	74.9	76.7	89.9	106.8	108.0	93.4	81.3	76.6	71.9	76.6
57.5°	43.6	47.5	51.5	57.5	64.1	64.3	58.0	52.3	48.1	44.0	48.1
60°	27.5	30.3	33.1	39.1	46.2	47.1	42.0	37.1	33.4	29.6	33.4
62.5°	25.0	25.9	26.8	31.0	36.1	36.5	32.1	28.5	27.4	26.2	27.4
65°	21.2	21.6	22.1	22.9	23.9	24.1	23.6	23.2	22.7	22.2	22.7
67.5°	18.6	19.1	19.6	20.0	20.3	20.6	20.7	20.6	20.1	19.7	20.1
70°	16.9	17.4	17.9	18.0	18.0	18.2	18.7	18.9	18.5	18.0	18.5
72.5°	15.2	15.3	15.4	15.7	16.1	16.3	16.4	16.5	16.4	16.3	16.4
75°	11.6	12.1	12.6	13.0	13.5	13.8	13.8	13.6	13.2	12.7	13.2
77.5°	9.1	9.6	10.0	10.2	10.2	10.3	10.7	10.9	10.5	10.2	10.5
80°	7.4	7.9	8.3	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
82.5°	5.7	6.2	6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
85°	3.2	3.6	4.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	5.5	5.5	5.3	5.4	5.7	5.7	5.1	4.2	3.2	2.3	3.2
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°	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5
2.5°	1477.4	1472.9	1467.6	1468.0	1474.0	1478.2	1476.7	1475.2
5°	1479.3	1474.2	1468.1	1469.2	1477.7	1483.8	1482.9	1481.9
7.5°	1481.0	1476.8	1471.6	1472.6	1479.6	1484.5	1483.1	1481.7
10°	1484.0	1478.8	1471.7	1471.7	1478.8	1483.7	1482.3	1480.9
12.5°	1488.7	1481.9	1472.2	1469.9	1475.1	1478.4	1476.3	1474.1
15°	1491.5	1482.3	1468.7	1462.1	1462.5	1462.1	1458.8	1455.5
17.5°	1480.3	1467.8	1449.0	1437.8	1434.1	1430.2	1425.7	1421.2
20°	1463.4	1449.5	1428.8	1414.9	1407.9	1401.7	1397.9	1394.1
22.5°	1434.5	1419.6	1397.4	1383.0	1376.3	1370.3	1366.1	1362.0
25°	1377.9	1363.8	1343.1	1329.0	1321.5	1314.9	1311.2	1307.4
27.5°	1300.2	1287.4	1269.6	1257.1	1250.1	1243.7	1239.6	1235.5
30°	1240.9	1230.2	1216.1	1204.6	1195.6	1187.5	1181.9	1176.2
32.5°	1174.6	1165.0	1152.0	1141.3	1132.7	1124.4	1116.9	1109.4
35°	1053.8	1047.5	1039.5	1031.3	1022.9	1014.5	1006.5	998.5
37.5°	916.7	910.5	901.9	893.1	883.9	876.3	873.2	870.1
40°	814.1	807.8	798.8	789.4	779.6	772.1	771.6	771.1
42.5°	705.2	702.9	696.2	687.7	677.5	669.3	667.3	665.3
45°	526.5	532.8	532.3	526.2	514.4	496.9	462.1	427.3
47.5°	329.4	351.5	370.1	361.9	327.0	292.2	257.9	223.6
50°	210.4	238.7	269.3	261.3	214.7	176.9	165.1	153.4
52.5°	140.3	165.6	195.8	192.5	155.8	126.4	119.2	111.9
55°	81.3	93.4	108.0	106.8	89.9	76.7	74.9	73.0
57.5°	52.3	58.0	64.3	64.1	57.5	51.5	47.5	43.6
60°	37.1	42.0	47.1	46.2	39.1	33.1	30.3	27.5
62.5°	28.5	32.1	36.5	36.1	31.0	26.8	25.9	25.0
65°	23.2	23.6	24.1	23.9	22.9	22.1	21.6	21.2
67.5°	20.6	20.7	20.6	20.3	20.0	19.6	19.1	18.6
70°	18.9	18.7	18.2	18.0	18.0	17.9	17.4	16.9
72.5°	16.5	16.4	16.3	16.1	15.7	15.4	15.3	15.2
75°	13.6	13.8	13.8	13.5	13.0	12.6	12.1	11.6
77.5°	10.9	10.7	10.3	10.2	10.2	10.0	9.6	9.1
80°	8.5	8.5	8.5	8.5	8.5	8.3	7.9	7.4
82.5°	6.8	6.8	6.8	6.8	6.8	6.7	6.2	5.7
85°	4.2	4.2	4.2	4.2	4.2	4.1	3.6	3.2
87.5°	4.0	5.5	6.6	7.8	8.9	9.5	10.4	9.9
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: P709351

CATALOG NUMBER: DL2W-WB-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)