

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: P709354

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

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709354  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-3, G3-2104-222-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: DL2W-WB-M-075U-075D-940-UNV-STD-W-WM-4  
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6512.5 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.17  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

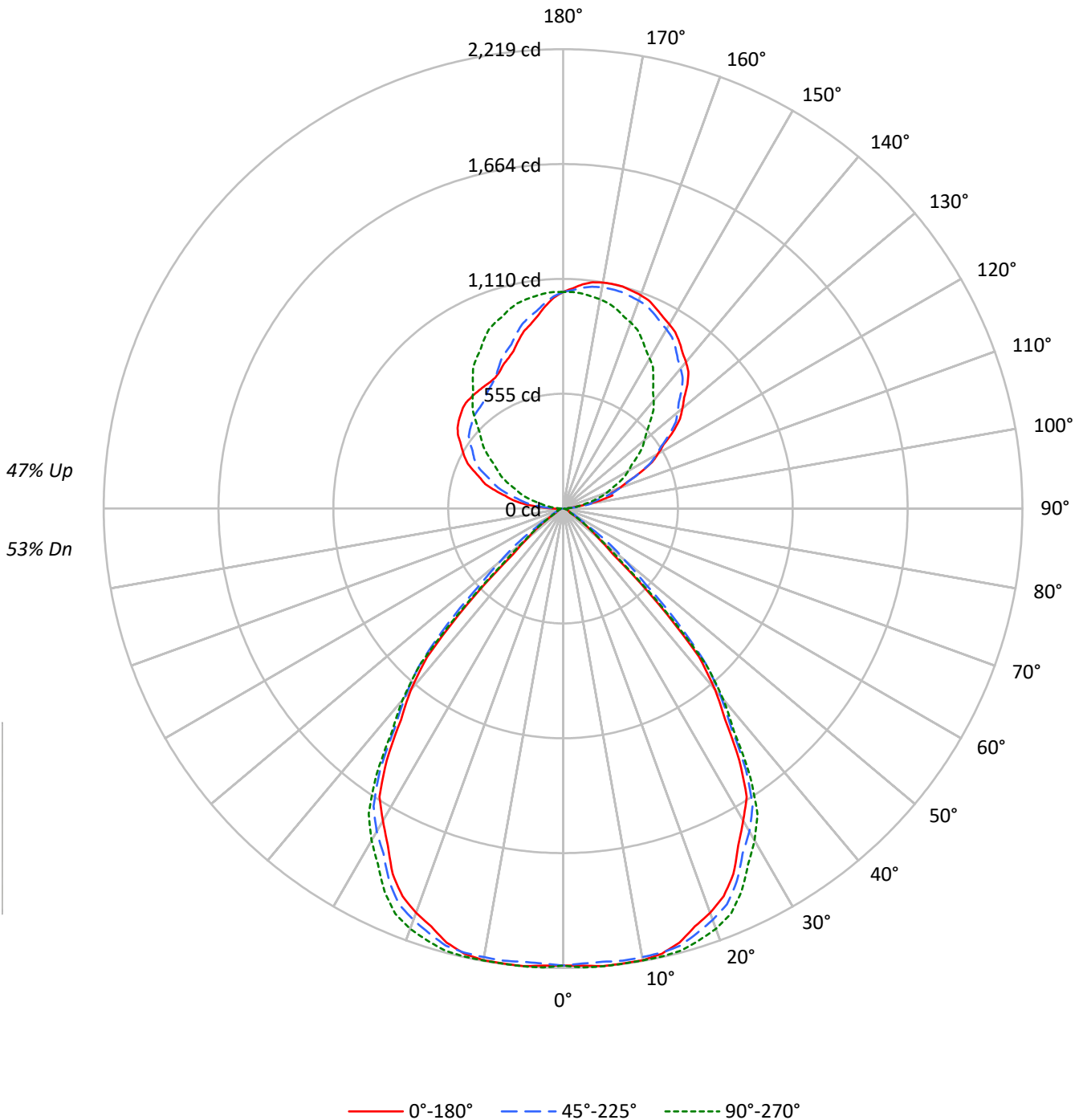
Input Watts (W): 51.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	100	97	94	91	93	90	87	85	77	75	74	66	64	63	55	54	53	48
2	93	87	82	77	86	81	77	73	70	67	64	60	58	56	51	49	48	44
3	86	78	72	67	80	73	68	63	64	60	57	55	52	50	47	45	43	40
4	80	71	64	59	74	66	60	56	58	54	50	51	47	45	43	41	39	36
5	74	64	57	52	69	60	54	49	53	48	45	46	43	40	40	38	36	33
6	69	58	51	46	64	55	49	44	49	44	40	43	39	36	37	35	32	30
7	64	53	46	41	60	50	44	40	45	40	36	40	36	33	35	32	30	27
8	60	49	42	37	56	46	40	36	41	36	33	37	33	30	32	29	27	25
9	56	45	38	34	53	43	37	32	38	33	30	34	30	27	30	27	25	23
10	53	42	35	31	49	40	34	30	36	31	27	32	28	25	28	25	23	21

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

	0°	45°	90°	135°	180°
0°	35645	35645	35645	35645	35645
5°	35953	35614	35971	35614	35953
10°	36316	36070	36334	36070	36316
15°	36284	36546	36939	36546	36284
20°	35697	36327	37115	36327	35697
25°	34693	35389	36351	35389	34693
30°	32438	33557	34491	33557	32438
35°	29268	30364	31020	30364	29268
40°	24091	25004	25429	25004	24091
45°	14936	18007	15901	18007	14936
50°	5689	9854	6222	9854	5689
55°	3040	4571	3068	4571	3040
60°	1298	2222	1437	2222	1298
65°	1215	1360	1295	1360	1215
70°	1199	1293	1251	1293	1199
75°	1123	1248	1254	1248	1123
80°	1079	1190	1181	1190	1079
85°	982	1000	1186	1000	982

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 50°  
 Vertical Angle: 45°  
 Luminance: 18100 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.1	3.2
10°-20°	617.2	9.5
20°-30°	912.6	14.0
30°-40°	944.2	14.5
40°-50°	568.0	8.7
50°-60°	135.8	2.1
60°-70°	37.1	0.6
70°-80°	20.8	0.3
80°-90°	10.9	0.2
90°-100°	83.3	1.3
100°-110°	242.8	3.7
110°-120°	396.3	6.1
120°-130°	502.8	7.7
130°-140°	538.1	8.3
140°-150°	502.4	7.7
150°-160°	413.4	6.3
160°-170°	277.3	4.3
170°-180°	98.4	1.5
0°-30°	1740.9	26.7
0°-40°	2685.2	41.2
0°-60°	3388.9	52.0
0°-90°	3457.7	53.1
90°-120°	722.4	11.1
90°-150°	2265.7	34.8
90°-180°	3055.0	46.9
0°-180°	6512.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2208	2208	2208	2208	2208	
5°	2218	2197	2219	2197	2218	211
15°	2171	2186	2210	2186	2171	610
25°	1947	1986	2040	1986	1947	888
35°	1485	1540	1574	1540	1485	913
45°	654	789	696	789	654	500
55°	108	162	109	162	108	105
65°	32	36	34	36	32	32
75°	18	20	20	20	18	19
85°	5	5	6	5	5	6
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°	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7
2.5°	2209.4	2211.3	2213.2	2207.5	2199.2	2199.0	2206.9	2213.5	2216.1	2218.7	2216.1
5°	2218.3	2219.7	2221.1	2211.6	2198.4	2196.3	2205.3	2212.8	2216.1	2219.4	2216.1
7.5°	2216.0	2218.2	2220.3	2213.4	2203.4	2201.9	2208.7	2214.2	2215.6	2217.0	2215.6
10°	2215.1	2216.6	2218.0	2210.6	2200.2	2200.0	2209.9	2217.1	2216.7	2216.2	2216.7
12.5°	2202.4	2205.7	2209.0	2203.8	2195.7	2198.8	2213.2	2223.1	2219.2	2215.4	2219.2
15°	2170.7	2175.4	2180.1	2181.3	2181.3	2191.4	2211.6	2224.9	2217.4	2209.9	2217.4
17.5°	2116.5	2122.2	2128.0	2134.8	2142.1	2159.2	2186.2	2204.2	2195.3	2186.4	2195.3
20°	2077.6	2079.9	2082.3	2091.7	2103.4	2125.1	2156.6	2178.0	2169.0	2160.1	2169.0
22.5°	2026.8	2030.6	2034.5	2045.1	2058.0	2081.3	2115.1	2138.0	2128.3	2118.6	2128.3
25°	1947.4	1952.6	1957.7	1966.1	1975.5	1997.4	2031.7	2055.6	2048.0	2040.5	2048.0
27.5°	1833.1	1840.2	1847.4	1857.2	1867.9	1889.4	1921.6	1944.6	1940.5	1936.4	1940.5
30°	1739.9	1751.2	1762.5	1775.9	1790.0	1809.8	1835.2	1853.8	1851.9	1850.0	1851.9
32.5°	1651.0	1660.1	1669.1	1681.4	1694.7	1712.6	1735.0	1751.3	1749.4	1747.6	1749.4
35°	1484.9	1494.3	1503.7	1517.7	1533.2	1547.8	1561.4	1571.9	1572.8	1573.8	1572.8
37.5°	1286.1	1295.6	1305.1	1316.7	1328.9	1340.4	1351.2	1359.0	1357.7	1356.4	1357.7
40°	1143.0	1145.4	1147.7	1161.7	1179.6	1193.0	1201.9	1208.4	1207.5	1206.5	1207.5
42.5°	972.0	983.0	994.0	1007.1	1020.8	1033.8	1046.2	1051.9	1037.8	1023.6	1037.8
45°	654.1	699.2	744.4	768.0	784.5	792.7	792.7	782.0	739.2	696.4	739.2
47.5°	328.9	383.8	438.6	489.0	538.0	549.2	522.8	490.7	442.0	393.3	442.0
50°	226.5	244.8	263.2	318.6	386.3	398.3	354.5	313.5	280.6	247.7	280.6
52.5°	166.4	176.1	185.8	231.1	288.3	293.9	247.9	209.2	192.4	175.7	192.4
55°	108.0	111.7	115.5	135.8	161.7	163.1	140.1	121.2	115.1	109.0	115.1
57.5°	65.6	71.5	77.5	85.7	94.8	94.8	85.7	77.4	71.1	64.8	71.1
60°	40.2	45.4	50.6	58.9	68.3	69.3	61.7	54.8	49.6	44.5	49.6
62.5°	36.8	38.6	40.4	46.5	54.0	54.6	48.2	42.9	40.7	38.5	40.7
65°	31.8	32.7	33.6	34.6	35.5	35.7	35.3	34.8	34.3	33.9	34.3
67.5°	27.9	28.8	29.6	29.9	30.0	30.2	30.6	30.8	30.3	29.8	30.3
70°	25.4	25.9	26.3	26.8	27.3	27.5	27.5	27.4	26.9	26.5	26.9
72.5°	22.0	22.9	23.7	24.0	24.1	24.3	24.7	24.9	24.4	23.9	24.4
75°	18.0	18.5	18.9	19.4	19.9	20.1	20.1	20.1	20.1	20.1	20.1
77.5°	14.2	14.7	15.1	15.2	15.2	15.5	15.9	16.2	15.7	15.2	15.7
80°	11.6	12.1	12.6	12.7	12.7	12.9	13.4	13.6	13.2	12.7	13.2
82.5°	9.1	9.6	10.0	10.2	10.2	10.2	10.3	10.3	10.3	10.2	10.3
85°	5.3	5.3	5.3	5.3	5.3	5.5	6.0	6.4	6.4	6.4	6.4
87.5°	6.3	6.3	6.1	5.9	5.9	5.9	5.6	5.0	3.5	2.3	3.5
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°	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7	2207.7
2.5°	2213.5	2206.9	2199.0	2199.2	2207.5	2213.2	2211.3	2209.4
5°	2212.8	2205.3	2196.3	2198.4	2211.6	2221.1	2219.7	2218.3
7.5°	2214.2	2208.7	2201.9	2203.4	2213.4	2220.3	2218.2	2216.0
10°	2217.1	2209.9	2200.0	2200.2	2210.6	2218.0	2216.6	2215.1
12.5°	2223.1	2213.2	2198.8	2195.7	2203.8	2209.0	2205.7	2202.4
15°	2224.9	2211.6	2191.4	2181.3	2181.3	2180.1	2175.4	2170.7
17.5°	2204.2	2186.2	2159.2	2142.1	2134.8	2128.0	2122.2	2116.5
20°	2178.0	2156.6	2125.1	2103.4	2091.7	2082.3	2079.9	2077.6
22.5°	2138.0	2115.1	2081.3	2058.0	2045.1	2034.5	2030.6	2026.8
25°	2055.6	2031.7	1997.4	1975.5	1966.1	1957.7	1952.6	1947.4
27.5°	1944.6	1921.6	1889.4	1867.9	1857.2	1847.4	1840.2	1833.1
30°	1853.8	1835.2	1809.8	1790.0	1775.9	1762.5	1751.2	1739.9
32.5°	1751.3	1735.0	1712.6	1694.7	1681.4	1669.1	1660.1	1651.0
35°	1571.9	1561.4	1547.8	1533.2	1517.7	1503.7	1494.3	1484.9
37.5°	1359.0	1351.2	1340.4	1328.9	1316.7	1305.1	1295.6	1286.1
40°	1208.4	1201.9	1193.0	1179.6	1161.7	1147.7	1145.4	1143.0
42.5°	1051.9	1046.2	1033.8	1020.8	1007.1	994.0	983.0	972.0
45°	782.0	792.7	792.7	784.5	768.0	744.4	699.2	654.1
47.5°	490.7	522.8	549.2	538.0	489.0	438.6	383.8	328.9
50°	313.5	354.5	398.3	386.3	318.6	263.2	244.8	226.5
52.5°	209.2	247.9	293.9	288.3	231.1	185.8	176.1	166.4
55°	121.2	140.1	163.1	161.7	135.8	115.5	111.7	108.0
57.5°	77.4	85.7	94.8	94.8	85.7	77.5	71.5	65.6
60°	54.8	61.7	69.3	68.3	58.9	50.6	45.4	40.2
62.5°	42.9	48.2	54.6	54.0	46.5	40.4	38.6	36.8
65°	34.8	35.3	35.7	35.5	34.6	33.6	32.7	31.8
67.5°	30.8	30.6	30.2	30.0	29.9	29.6	28.8	27.9
70°	27.4	27.5	27.5	27.3	26.8	26.3	25.9	25.4
72.5°	24.9	24.7	24.3	24.1	24.0	23.7	22.9	22.0
75°	20.1	20.1	20.1	19.9	19.4	18.9	18.5	18.0
77.5°	16.2	15.9	15.5	15.2	15.2	15.1	14.7	14.2
80°	13.6	13.4	12.9	12.7	12.7	12.6	12.1	11.6
82.5°	10.3	10.3	10.2	10.2	10.2	10.0	9.6	9.1
85°	6.4	6.0	5.5	5.3	5.3	5.3	5.3	5.3
87.5°	4.8	6.1	6.7	8.0	9.5	10.4	11.2	10.8
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: P709354

CATALOG NUMBER: DL2W-WB-M-075U-075D-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)