

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: P709324

Luminaire Tested: DL2W-BB-M-150U-125D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709324  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-6, G3-2104-222-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: DL2W-BB-M-150U-125D-940-UNV-STD-W-WM-4  
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11439.2 lumens  
Efficiency: N/A  
Efficacy: 109.6 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

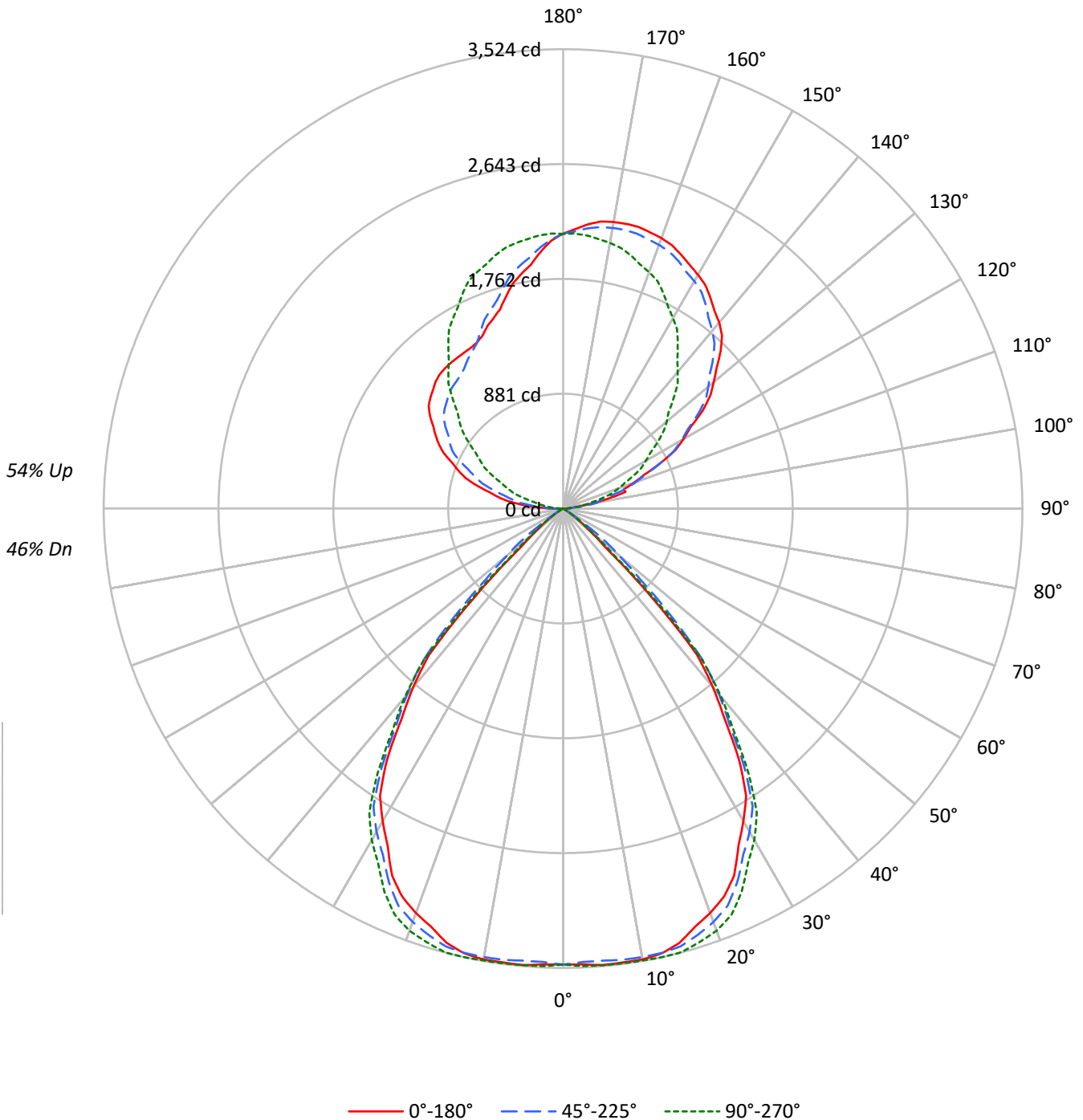
Input Watts (W): 104.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20				
RC	80					70					50					30				
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	98	98	98	98	81	81	81	66	66	66	53	53	53	46		
1	99	95	92	89	91	88	85	83	74	72	70	61	60	59	49	49	48	43		
2	91	85	80	76	84	79	75	71	67	64	61	56	54	52	46	45	43	39		
3	85	77	71	66	78	71	66	62	61	57	54	51	49	46	42	41	39	35		
4	79	69	63	57	72	65	59	54	55	51	48	47	44	42	39	37	36	32		
5	73	63	56	51	67	59	52	48	51	46	43	43	40	37	36	34	32	29		
6	68	57	50	45	63	53	47	43	46	42	38	40	36	34	34	31	29	27		
7	63	52	45	40	58	49	43	38	43	38	34	37	33	31	31	29	27	24		
8	59	48	41	36	55	45	39	34	39	35	31	34	31	28	29	27	25	22		
9	55	44	37	33	51	41	35	31	36	32	28	32	28	26	27	25	23	21		
10	52	41	34	30	48	38	32	28	34	29	26	29	26	23	25	23	21	19		

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

	0°	45°	90°	135°	180°
0°	56465	56465	56465	56465	56465
5°	56973	56420	56973	56420	56973
10°	57579	57272	57700	57272	57579
15°	57645	58124	58863	58124	57645
20°	56713	57983	59199	57983	56713
25°	55319	56332	57767	56332	55319
30°	51589	53360	54702	53360	51589
35°	46440	47821	48917	47821	46440
40°	37656	39208	39840	39208	37656
45°	21907	27412	24318	27412	21907
50°	6980	14148	7935	14148	6980
55°	2795	4928	2705	4928	2795
60°	68	1353	203	1353	68
65°	0	73	42	73	0
70°	0	45	0	45	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: 60°  
 Vertical Angle: 45°  
 Luminance: 27631 cd/sqm

TEST NUMBER: P709324

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.7	2.9
10°-20°	982.8	8.6
20°-30°	1452.4	12.7
30°-40°	1492.6	13.0
40°-50°	862.1	7.5
50°-60°	149.1	1.3
60°-70°	5.6	0.0
70°-80°	0.1	0.0
80°-90°	11.2	0.1
90°-100°	166.8	1.5
100°-110°	487.2	4.3
110°-120°	797.3	7.0
120°-130°	1012.7	8.9
130°-140°	1084.1	9.5
140°-150°	1012.5	8.9
150°-160°	833.2	7.3
160°-170°	558.9	4.9
170°-180°	198.4	1.7
0°-30°	2769.9	24.2
0°-40°	4262.5	37.3
0°-60°	5273.8	46.1
0°-90°	5290.7	46.3
90°-120°	1451.2	12.7
90°-150°	4560.5	39.9
90°-180°	6151.0	53.8
0°-180°	11439.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3497	3497	3497	3497	3497	
5°	3515	3481	3515	3481	3515	335
15°	3449	3477	3522	3477	3449	969
25°	3105	3162	3243	3162	3105	1413
35°	2356	2426	2482	2426	2356	1445
45°	959	1200	1065	1200	959	746
55°	99	175	96	175	99	101
65°	0	2	1	2	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	4
90°	44	41	7	57	93	21
95°	49	66	68	216	299	82
105°	497	371	314	555	686	460
115°	820	826	596	882	1010	812
125°	1306	1264	884	1103	1247	1156
135°	1710	1628	1200	1240	1381	1312
145°	1972	1909	1534	1318	1413	1235
155°	2146	2095	1822	1499	1463	991
165°	2237	2183	2011	1759	1687	631
175°	2189	2158	2103	2011	1976	210
180°	2108	2108	2108	2108	2108	

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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2
2.5°	3499.7	3503.1	3506.5	3496.6	3482.4	3481.4	3493.8	3504.2	3508.8	3513.3	3508.8
5°	3515.2	3518.4	3521.7	3505.7	3483.1	3479.1	3493.7	3505.8	3510.5	3515.2	3510.5
7.5°	3512.0	3517.3	3522.5	3510.5	3492.8	3490.1	3502.6	3512.7	3515.6	3518.5	3515.6
10°	3512.0	3515.7	3519.5	3508.8	3493.3	3493.3	3508.8	3520.3	3519.9	3519.4	3519.9
12.5°	3495.9	3502.3	3508.7	3500.9	3488.4	3493.9	3517.3	3533.7	3529.1	3524.5	3529.1
15°	3448.6	3459.9	3471.1	3471.8	3469.0	3485.5	3521.1	3545.0	3533.2	3521.5	3533.2
17.5°	3364.9	3379.0	3393.1	3404.7	3415.5	3443.8	3489.7	3519.8	3502.9	3486.0	3502.9
20°	3300.7	3314.8	3328.9	3343.3	3357.9	3391.4	3444.0	3479.2	3462.3	3445.4	3462.3
22.5°	3222.9	3235.9	3248.8	3264.1	3280.2	3316.4	3372.7	3410.4	3392.0	3373.6	3392.0
25°	3105.2	3110.4	3115.5	3128.8	3144.8	3179.3	3232.4	3268.9	3255.7	3242.6	3255.7
27.5°	2914.2	2926.3	2938.4	2957.2	2978.1	3009.0	3050.0	3079.5	3074.8	3070.1	3074.8
30°	2767.1	2784.5	2801.9	2824.2	2848.1	2876.1	2908.0	2932.2	2933.1	2934.1	2933.1
32.5°	2613.3	2631.0	2648.8	2670.1	2692.5	2719.9	2752.2	2775.2	2770.5	2765.9	2770.5
35°	2356.1	2369.7	2383.4	2399.1	2415.5	2436.9	2463.2	2482.8	2482.3	2481.8	2482.3
37.5°	2036.8	2044.5	2052.2	2070.9	2093.3	2113.5	2131.6	2145.8	2148.2	2150.5	2148.2
40°	1786.6	1795.1	1803.5	1824.7	1850.0	1870.5	1886.0	1896.8	1893.5	1890.2	1893.5
42.5°	1521.2	1531.6	1541.9	1566.9	1596.7	1617.4	1628.7	1631.8	1610.1	1588.4	1610.1
45°	959.4	1042.5	1125.6	1166.4	1193.2	1207.8	1210.1	1195.6	1130.3	1065.0	1130.3
47.5°	437.6	535.2	632.8	715.7	793.8	809.7	763.5	708.4	626.7	545.0	626.7
50°	277.9	305.6	333.3	431.4	553.0	573.5	492.7	419.2	367.6	315.9	367.6
52.5°	184.9	201.0	217.0	292.8	388.5	396.2	315.8	249.3	224.7	200.1	224.7
55°	99.3	104.0	108.7	137.7	174.8	175.3	139.1	110.2	103.2	96.1	103.2
57.5°	37.6	44.8	51.9	64.4	78.7	78.4	63.7	50.7	42.9	35.1	42.9
60°	2.1	7.7	13.4	26.1	41.1	42.7	31.0	20.4	13.4	6.3	13.4
62.5°	1.3	2.4	3.5	12.0	22.9	23.4	13.5	5.7	3.9	2.1	3.9
65°	0.0	0.5	0.9	1.4	1.9	1.9	1.4	1.1	1.1	1.1	1.1
67.5°	0.0	0.0	0.0	0.4	0.8	1.1	1.1	0.9	0.5	0.0	0.5
70°	0.0	0.0	0.0	0.4	0.8	1.1	1.1	0.9	0.5	0.0	0.5
72.5°	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.1	0.0	0.1
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°	8.9	9.1	8.9	8.5	8.2	8.0	6.8	5.1	3.2	1.5	3.2
90°	44.4	45.4	44.4	42.3	41.2	40.2	33.8	25.4	15.9	7.4	15.9
92.5°	54.5	53.9	53.7	51.6	49.7	44.4	36.4	36.4	37.0	23.5	39.5
95°	48.6	48.6	47.6	47.6	56.0	75.0	103.6	102.5	74.0	67.6	95.1
97.5°	112.9	113.1	127.7	158.3	184.1	197.6	184.3	138.4	135.9	130.6	170.6
100°	226.2	223.0	245.2	271.6	299.1	244.1	194.5	193.4	184.9	175.4	227.2
102.5°	359.7	372.6	381.3	381.5	303.3	271.2	261.2	252.6	234.8	228.7	279.6
105°	496.7	475.6	410.0	372.0	366.7	375.2	376.2	344.5	317.0	313.9	364.6
107.5°	487.4	480.0	484.9	494.4	502.8	503.7	490.6	444.7	402.9	396.7	441.1
110°	577.0	573.9	581.3	586.5	595.0	590.8	571.7	520.0	467.1	453.4	497.8

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CATALOG NUMBER: DL2W-BB-M-150U-125D-940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	670.0	676.2	675.9	685.5	688.0	682.9	652.1	593.5	532.2	510.9	553.6
115°	820.1	818.0	825.4	827.5	832.8	819.0	772.5	704.9	627.8	596.0	634.1
117.5°	972.5	966.1	966.1	978.0	974.0	945.2	897.9	817.6	730.9	678.5	707.4
120°	1066.3	1064.2	1064.2	1068.4	1065.3	1031.5	980.7	892.0	796.8	733.4	755.6
122.5°	1155.1	1163.1	1156.4	1158.9	1152.4	1119.4	1056.0	966.4	862.8	793.5	802.1
125°	1306.2	1297.8	1292.5	1290.4	1283.0	1246.0	1177.3	1080.1	968.0	883.5	871.9
127.5°	1423.5	1426.7	1420.6	1413.0	1398.6	1361.8	1291.6	1193.6	1076.7	970.2	944.6
130°	1508.1	1511.3	1506.0	1497.5	1476.4	1432.0	1368.6	1271.4	1151.9	1037.8	994.5
132.5°	1597.7	1595.0	1588.0	1569.4	1547.4	1505.5	1437.9	1346.6	1219.6	1098.7	1045.2
135°	1709.9	1711.0	1695.1	1676.1	1650.8	1604.3	1548.2	1458.4	1331.6	1200.5	1123.4
137.5°	1804.0	1802.3	1786.7	1770.8	1739.3	1698.9	1645.0	1559.9	1436.0	1301.6	1205.0
140°	1863.2	1863.2	1848.4	1828.3	1801.9	1760.7	1706.8	1623.3	1507.0	1367.5	1265.0
142.5°	1908.8	1909.7	1894.9	1879.9	1853.4	1817.3	1764.3	1684.1	1567.9	1439.4	1324.2
145°	1972.0	1976.3	1964.6	1951.9	1926.6	1891.7	1849.4	1767.0	1663.4	1534.5	1418.3
147.5°	2032.3	2036.5	2029.5	2016.4	1991.0	1954.7	1916.2	1841.4	1743.5	1628.6	1510.2
150°	2070.3	2074.5	2065.0	2054.5	2033.3	1995.3	1959.3	1885.4	1793.4	1687.7	1573.6
152.5°	2105.8	2110.0	2102.2	2090.0	2065.4	2028.2	1997.4	1925.9	1840.8	1744.4	1633.6
155°	2146.4	2155.9	2148.5	2136.9	2112.6	2077.7	2049.2	1983.6	1906.5	1822.0	1719.4
157.5°	2185.7	2196.1	2185.7	2174.7	2146.2	2116.8	2090.2	2029.9	1963.4	1890.9	1798.1
160°	2207.7	2217.2	2207.7	2195.0	2166.5	2137.9	2114.7	2058.7	1996.3	1929.8	1850.5
162.5°	2221.2	2231.6	2223.8	2209.4	2180.0	2154.0	2132.4	2081.5	2024.2	1963.6	1891.1
165°	2237.3	2248.9	2239.4	2222.5	2194.0	2172.8	2154.9	2109.4	2060.8	2011.1	1953.0
167.5°	2237.1	2250.4	2240.7	2229.5	2197.1	2180.9	2165.4	2128.4	2087.6	2048.1	2001.6
170°	2232.0	2243.6	2237.3	2227.8	2192.9	2179.2	2169.6	2136.9	2102.0	2069.3	2031.2
172.5°	2221.0	2231.8	2224.6	2215.1	2182.8	2171.6	2167.1	2140.3	2110.5	2085.3	2053.2
175°	2188.7	2203.5	2198.2	2189.7	2161.2	2154.9	2155.9	2137.9	2118.9	2103.1	2084.0
177.5°	2145.6	2154.9	2154.0	2146.4	2127.0	2128.6	2135.4	2124.4	2116.8	2110.9	2101.6
180°	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4

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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
0°	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2	3497.2
2.5°	3504.2	3493.8	3481.4	3482.4	3496.6	3506.5	3503.1	3499.7
5°	3505.8	3493.7	3479.1	3483.1	3505.7	3521.7	3518.4	3515.2
7.5°	3512.7	3502.6	3490.1	3492.8	3510.5	3522.5	3517.3	3512.0
10°	3520.3	3508.8	3493.3	3493.3	3508.8	3519.5	3515.7	3512.0
12.5°	3533.7	3517.3	3493.9	3488.4	3500.9	3508.7	3502.3	3495.9
15°	3545.0	3521.1	3485.5	3469.0	3471.8	3471.1	3459.9	3448.6
17.5°	3519.8	3489.7	3443.8	3415.5	3404.7	3393.1	3379.0	3364.9
20°	3479.2	3444.0	3391.4	3357.9	3343.3	3328.9	3314.8	3300.7
22.5°	3410.4	3372.7	3316.4	3280.2	3264.1	3248.8	3235.9	3222.9
25°	3268.9	3232.4	3179.3	3144.8	3128.8	3115.5	3110.4	3105.2
27.5°	3079.5	3050.0	3009.0	2978.1	2957.2	2938.4	2926.3	2914.2
30°	2932.2	2908.0	2876.1	2848.1	2824.2	2801.9	2784.5	2767.1
32.5°	2775.2	2752.2	2719.9	2692.5	2670.1	2648.8	2631.0	2613.3
35°	2482.8	2463.2	2436.9	2415.5	2399.1	2383.4	2369.7	2356.1
37.5°	2145.8	2131.6	2113.5	2093.3	2070.9	2052.2	2044.5	2036.8
40°	1896.8	1886.0	1870.5	1850.0	1824.7	1803.5	1795.1	1786.6
42.5°	1631.8	1628.7	1617.4	1596.7	1566.9	1541.9	1531.6	1521.2
45°	1195.6	1210.1	1207.8	1193.2	1166.4	1125.6	1042.5	959.4
47.5°	708.4	763.5	809.7	793.8	715.7	632.8	535.2	437.6
50°	419.2	492.7	573.5	553.0	431.4	333.3	305.6	277.9
52.5°	249.3	315.8	396.2	388.5	292.8	217.0	201.0	184.9
55°	110.2	139.1	175.3	174.8	137.7	108.7	104.0	99.3
57.5°	50.7	63.7	78.4	78.7	64.4	51.9	44.8	37.6
60°	20.4	31.0	42.7	41.1	26.1	13.4	7.7	2.1
62.5°	5.7	13.5	23.4	22.9	12.0	3.5	2.4	1.3
65°	1.1	1.4	1.9	1.9	1.4	0.9	0.5	0.0
67.5°	0.9	1.1	1.1	0.8	0.4	0.0	0.0	0.0
70°	0.9	1.1	1.1	0.8	0.4	0.0	0.0	0.0
72.5°	0.2	0.2	0.2	0.2	0.1	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°	5.1	7.2	10.1	12.5	15.4	18.0	19.0	18.6
90°	25.4	35.9	50.7	62.4	77.1	89.8	95.1	93.0
92.5°	57.5	79.1	101.5	122.4	144.8	157.5	162.8	164.0
95°	133.2	163.8	199.7	231.4	258.9	279.0	284.3	299.1
97.5°	209.0	262.7	305.4	342.0	376.4	398.8	411.7	416.8
100°	267.4	320.2	373.1	412.2	453.4	472.4	490.4	503.0
102.5°	329.9	376.9	435.6	484.9	525.2	551.9	563.1	574.1
105°	423.8	477.7	528.4	582.3	624.6	658.4	681.6	685.9
107.5°	511.5	575.1	627.3	681.6	723.3	754.4	777.6	785.6
110°	570.7	635.1	697.5	740.8	788.4	821.1	840.2	855.0



TEST NUMBER: P709324

CATALOG NUMBER: DL2W-BB-M-150U-125D-940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	624.8	693.5	761.8	816.9	859.4	892.2	913.7	921.8
115°	707.0	775.7	847.6	916.3	961.7	985.0	1000.8	1010.3
117.5°	779.9	854.8	922.4	992.1	1039.1	1063.4	1068.0	1075.6
120°	822.2	900.4	972.3	1033.6	1086.4	1114.9	1125.5	1129.7
122.5°	866.2	941.0	1011.2	1074.2	1125.3	1159.8	1177.1	1182.2
125°	926.8	1000.8	1070.6	1136.1	1183.6	1218.5	1237.5	1247.0
127.5°	979.9	1049.4	1122.8	1187.4	1234.2	1268.0	1288.5	1298.6
130°	1018.8	1079.0	1154.0	1219.6	1267.1	1300.9	1318.9	1327.4
132.5°	1056.0	1104.4	1178.6	1244.1	1294.2	1327.2	1345.1	1351.9
135°	1114.9	1143.5	1204.8	1274.5	1325.3	1357.0	1374.9	1381.3
137.5°	1178.8	1185.3	1227.2	1292.5	1344.5	1377.2	1392.9	1398.2
140°	1222.7	1217.5	1244.9	1300.9	1353.8	1386.5	1401.3	1406.6
142.5°	1270.9	1255.5	1267.8	1310.2	1357.2	1389.9	1405.6	1410.9
145°	1344.3	1315.7	1306.2	1329.5	1364.4	1391.8	1408.7	1413.0
147.5°	1428.0	1386.3	1356.1	1362.9	1380.2	1399.9	1413.8	1416.3
150°	1483.8	1432.0	1395.0	1390.8	1397.1	1410.9	1421.4	1421.4
152.5°	1539.6	1484.4	1437.3	1424.6	1422.5	1427.8	1434.9	1434.1
155°	1628.6	1564.1	1510.2	1486.9	1473.2	1469.0	1466.9	1462.6
157.5°	1714.4	1647.6	1587.1	1555.4	1538.1	1527.5	1522.5	1515.9
160°	1774.4	1702.5	1641.2	1605.3	1590.5	1571.5	1567.3	1555.6
162.5°	1821.7	1760.9	1695.3	1659.4	1639.5	1623.9	1618.0	1604.7
165°	1894.9	1842.0	1776.5	1741.6	1717.3	1703.6	1692.0	1686.7
167.5°	1959.8	1914.5	1857.7	1822.0	1809.5	1788.8	1779.0	1771.2
170°	1995.3	1959.3	1911.8	1876.9	1865.3	1850.5	1839.9	1830.4
172.5°	2025.7	2000.8	1956.6	1932.7	1921.9	1908.8	1900.8	1887.9
175°	2066.1	2050.2	2021.7	2000.6	2005.8	1993.2	1991.0	1976.3
177.5°	2094.8	2089.8	2070.3	2061.9	2072.0	2067.8	2066.9	2057.6
180°	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4

(END OF REPORT)