

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P210681

Luminaire Tested: **WPMLED-75-GL-UNV-7050**

Test Date: 10/24/16

Test Information

Test Method: LM-79-08
Report Number: P210681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29002)
Test Lab: INNOVATION CENTER-P2
Test Date: 10/24/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WPMLED-75-GL-UNV-7050
Description: LED WALL PACK
Light Source: CITIZEN 5000K
CLU038-1206
Ballast/Driver: (2) IPP ELECTRONIC DRIVERS
IPP LP1040-36-C0950

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8817.5 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.98' x L: 0.25' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U5 - G5

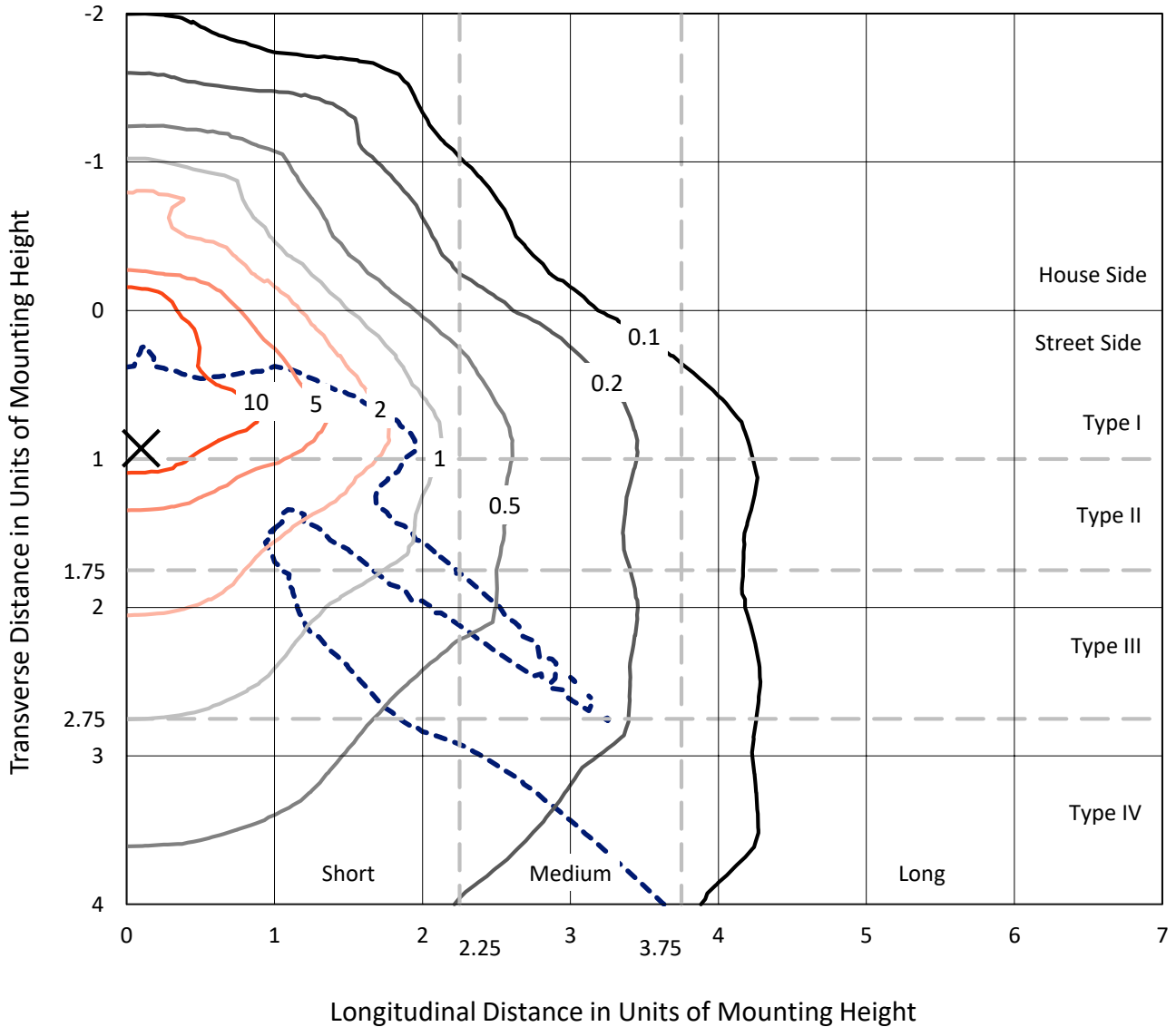
Input Watts (W): 76.3
Input Voltage (V): 120.1
Input Current (Ain): 0.642
Voltage Rise (V): NR
Power Factor: 0.9952
Total Harmonic Distortion (THDi): 9.74%
Frequency (hertz): 60
Stabilization Time: 1 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.8
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

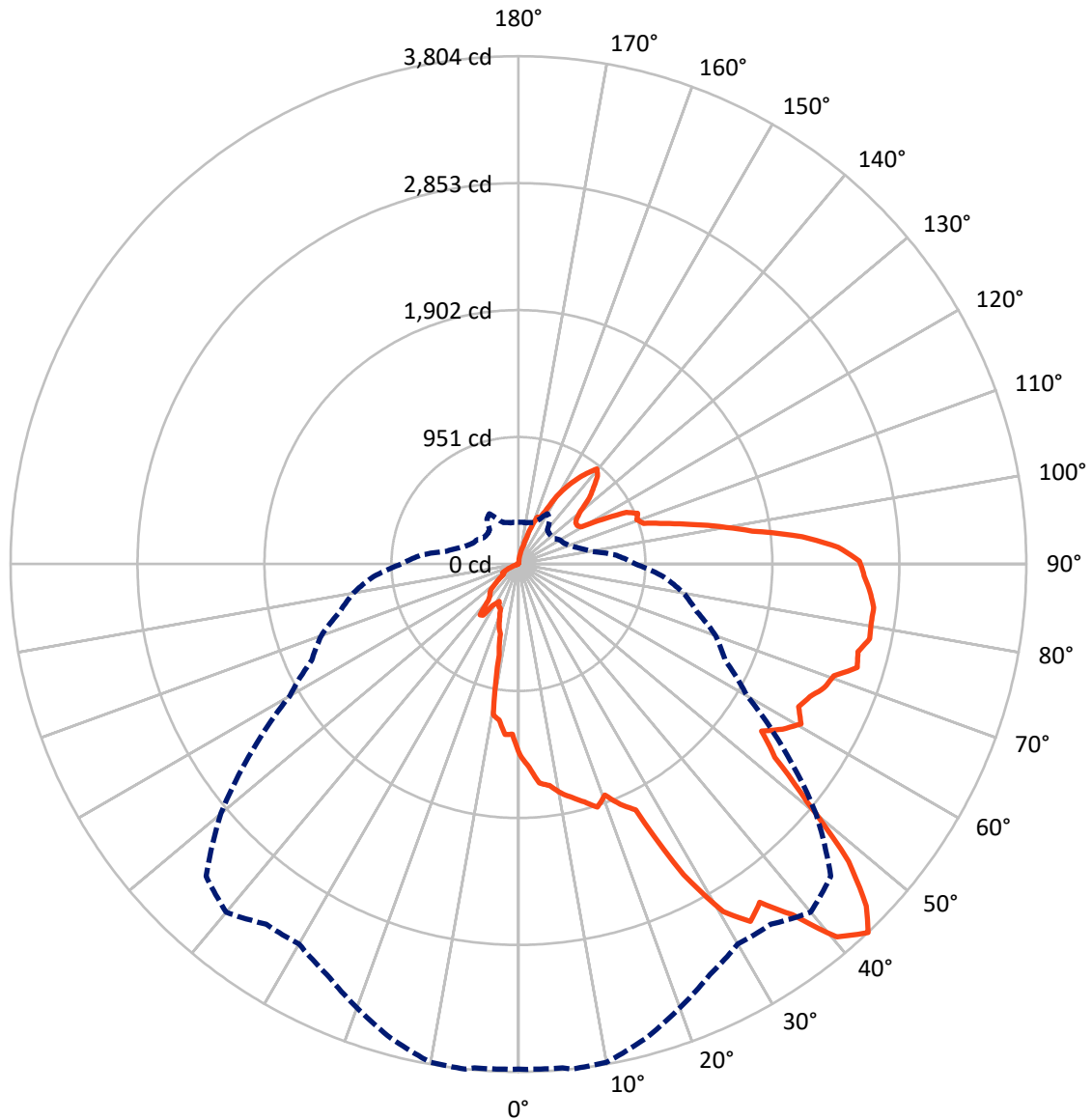
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 6-Deg Lateral - - - Horizontal Cone Through 43-Deg Vertical

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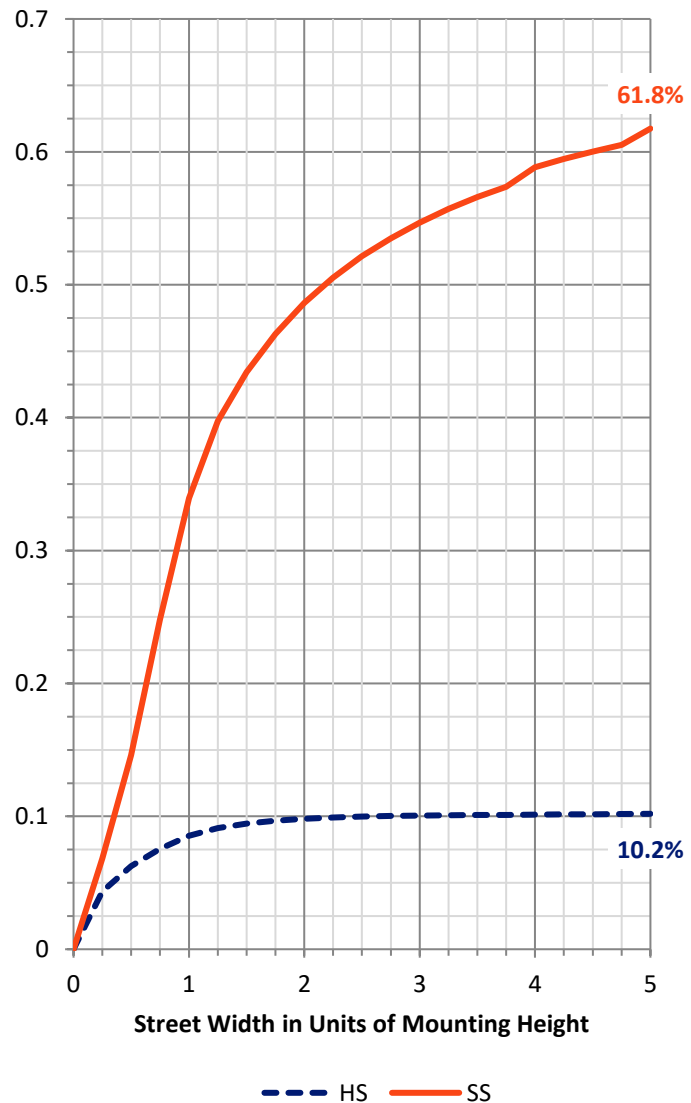
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	913.2	77.0	990.3
	% Fixture	10.4	0.9	11.2
Street Side	Lumens	6071.4	1755.9	7827.3
	% Fixture	68.9	19.9	88.8
Total	Lumens	6984.6	1832.9	8817.5
	% Fixture	79.2	20.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	1.6
10°-20°	364.0	4.1
20°-30°	538.4	6.1
30°-40°	852.3	9.7
40°-50°	1176.2	13.3
50°-60°	1106.6	12.5
60°-70°	979.2	11.1
70°-80°	954.8	10.8
80°-90°	876.2	9.9
90°-100°	633.7	7.2
100°-110°	376.2	4.3
110°-120°	249.3	2.8
120°-130°	180.8	2.1
130°-140°	194.5	2.2
140°-150°	134.1	1.5
150°-160°	52.3	0.6
160°-170°	11.9	0.1
170°-180°	0.3	0.0
0°-90°	6984.6	79.2
0°-180°	8817.5	100.0

Coefficient of Utilization



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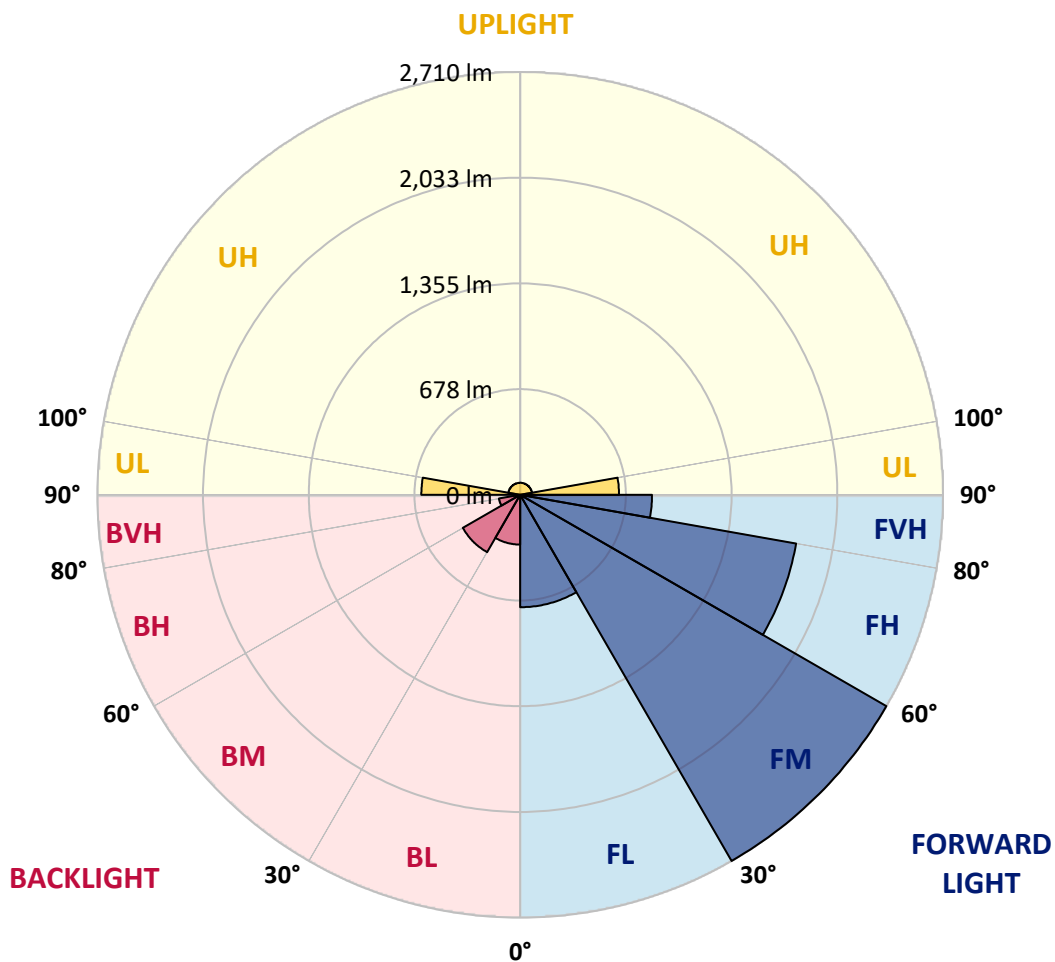
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	720.5	8.2			
FM (30°-60°)	2710.3	30.7			
FH (60°-80°)	1795.9	20.4			G1/1800
FVH (80°-90°)	844.7	9.6			G5
BL (0°-30°)	318.8	3.6	B1/500		
BM (30°-60°)	424.8	4.8	B1/1000		
BH (60°-80°)	138.1	1.6	B1/500		G1/500
BVH (80°-90°)	31.5	0.4			G1/100
UL (90°-100°)	633.7	7.2		U4/1000	
UH (100°-180°)	77.0	0.9		U3/500	

BUG Rating: B1-U5-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	6°	10°	15°	20°	25°	30°	35°	40°	45°
0°	1432.7	1432.7	1432.7	1432.7	1432.7	1432.7	1432.7	1432.7	1432.7	1432.7	1432.7
2.5°	1520.6	1524.6	1523.6	1523.6	1529.4	1530.4	1521.6	1514.8	1524.6	1503.1	1517.7
5°	1647.7	1649.6	1648.7	1646.7	1642.8	1636.9	1622.3	1613.5	1626.2	1603.7	1605.7
7.5°	1669.2	1674.1	1676.0	1668.2	1674.1	1687.8	1691.7	1692.6	1722.9	1706.3	1708.3
10°	1722.0	1741.5	1744.4	1750.3	1762.0	1775.7	1754.2	1722.0	1719.0	1693.6	1683.9
12.5°	1803.1	1799.2	1795.3	1790.4	1765.9	1739.6	1716.1	1708.3	1738.6	1747.4	1722.0
15°	1819.7	1840.2	1849.0	1873.4	1898.9	1939.9	1913.5	1857.8	1775.7	1700.5	1719.0
17.5°	1907.7	1913.5	1914.5	1898.9	1873.4	1837.3	1802.1	1832.4	1906.7	1854.9	1741.5
20°	1804.1	1843.2	1848.0	1879.3	1923.3	1977.0	1968.2	1884.2	1785.5	1765.9	1836.3
22.5°	1947.7	1951.6	1955.5	1941.9	1909.6	1857.8	1815.8	1875.4	1913.5	1766.9	1668.2
25°	2024.9	2045.4	2040.6	2033.7	2029.8	2028.8	1973.1	1841.2	1744.4	1800.2	1716.1
27.5°	2641.6	2639.6	2634.7	2591.7	2470.6	2282.9	2086.5	1967.3	1855.9	1669.2	1694.6
30°	2999.3	3009.0	3021.8	3002.2	2932.8	2832.2	2589.8	2230.2	1963.4	1782.6	1594.9
32.5°	3143.9	3177.1	3190.8	3177.1	3132.2	3079.4	2875.2	2662.1	2307.4	1931.1	1731.7
35°	3057.9	3093.1	3112.6	3153.7	3205.5	3224.0	3108.7	2958.2	2683.6	2321.0	1955.5
37.5°	3319.8	3347.2	3332.5	3270.0	3180.1	3189.8	3196.7	3186.9	3032.5	2775.5	2373.8
40°	3626.7	3652.1	3672.6	3635.5	3501.6	3355.0	3215.3	3216.2	3244.6	3117.5	2890.8
42.5°	3770.3	3776.2	3784.0	3777.2	3676.5	3537.8	3373.6	3267.0	3303.2	3365.8	3252.4
43°	3784.0	3787.9	3803.6	3789.9	3679.5	3536.8	3393.1	3286.6	3294.4	3404.8	3308.1
45°	3615.0	3641.3	3654.1	3697.1	3610.1	3414.6	3282.7	3279.8	3274.9	3425.4	3501.6
47.5°	3263.1	3289.5	3328.6	3379.4	3414.6	3312.0	3088.2	2983.6	3109.7	3320.8	3579.8
50°	2774.5	2791.1	2803.8	2912.3	2990.5	3015.9	2913.3	2782.3	2767.7	3005.1	3468.4
52.5°	2390.4	2389.5	2405.1	2454.9	2528.2	2558.5	2500.9	2510.6	2488.2	2641.6	3152.7
55°	2199.9	2195.9	2208.7	2211.6	2208.7	2179.3	2111.9	2154.9	2183.2	2289.8	2765.7
57.5°	2332.8	2324.9	2333.7	2310.3	2217.4	2126.6	2004.4	1973.1	1980.0	1980.0	2343.5
60°	2421.7	2416.8	2431.5	2415.8	2323.0	2194.0	1991.7	1880.3	1869.5	1821.7	2011.2
62.5°	2350.4	2350.4	2355.2	2353.3	2303.4	2209.6	1997.6	1856.8	1826.5	1846.1	1906.7
65°	2399.2	2378.7	2397.3	2385.5	2343.5	2265.3	2055.2	1882.2	1808.9	1852.9	1876.4
67.5°	2473.5	2459.8	2471.5	2444.2	2363.1	2268.3	2037.6	1835.3	1751.3	1808.0	1889.1
70°	2514.5	2506.7	2506.7	2483.3	2414.9	2309.3	2086.5	1896.9	1793.3	1806.0	1854.9
72.5°	2645.5	2635.7	2653.3	2609.3	2533.1	2411.9	2141.2	1935.0	1816.8	1781.6	1799.2
75°	2621.1	2613.2	2626.0	2579.0	2517.5	2411.9	2153.9	1965.3	1900.8	1839.2	1778.7
77.5°	2674.8	2670.9	2689.5	2643.5	2583.0	2474.5	2215.5	2007.3	1959.4	1885.2	1781.6
80°	2671.9	2658.2	2678.7	2632.8	2559.5	2454.0	2201.8	2028.8	2001.5	1932.1	1793.3
82.5°	2662.1	2652.3	2680.7	2637.7	2574.2	2472.5	2214.5	2033.7	1994.6	1935.0	1786.5
85°	2632.8	2622.0	2641.6	2603.5	2539.0	2420.7	2161.7	2002.4	2005.4	1906.7	1697.5
87.5°	2573.2	2572.2	2591.7	2559.5	2494.0	2394.3	2144.2	1984.9	1927.2	1723.9	1516.7
90°	2533.1	2537.0	2554.6	2528.2	2464.7	2325.9	2028.8	1867.6	1710.2	1503.1	1342.8
92.5°	2379.7	2380.7	2397.3	2361.1	2272.2	2102.1	1813.8	1620.3	1472.8	1335.9	1243.1
95°	2126.6	2127.5	2135.4	2101.2	2005.4	1801.1	1531.4	1387.7	1309.6	1208.9	1140.5
97.5°	1774.7	1763.0	1767.9	1732.7	1665.3	1539.2	1342.8	1224.5	1158.1	1083.8	1045.7
100°	1543.1	1531.4	1535.3	1496.2	1426.8	1315.4	1164.9	1077.9	1032.0	964.6	914.7
102.5°	1320.3	1313.5	1317.4	1290.0	1235.3	1152.2	1034.0	958.7	917.7	852.2	831.7
105°	1138.5	1127.8	1134.6	1116.1	1065.2	1005.6	908.9	845.3	822.9	793.6	769.1
107.5°	985.1	978.3	984.1	963.6	926.5	891.3	833.6	808.2	790.6	756.4	719.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	6°	10°	15°	20°	25°	30°	35°	40°	45°
110°	942.1	944.1	947.0	934.3	905.0	878.6	848.3	802.3	751.5	682.1	617.6
112.5°	955.8	967.5	970.4	953.8	920.6	877.6	813.1	734.9	645.0	554.1	512.1
115°	887.4	891.3	897.1	881.5	836.6	771.1	684.1	588.3	517.0	476.9	455.4
117.5°	718.3	709.5	711.5	697.8	652.8	595.2	534.6	489.6	466.2	448.6	431.0
120°	543.4	544.3	547.3	548.3	540.4	524.8	500.4	488.6	463.2	448.6	442.7
122.5°	516.0	521.9	526.8	531.6	528.7	527.7	510.1	492.5	475.0	464.2	458.3
125°	520.9	523.8	527.7	533.6	535.5	542.4	521.9	509.2	491.6	485.7	467.1
127.5°	542.4	546.3	551.2	557.0	563.9	561.0	537.5	525.8	521.9	502.3	461.3
130°	599.1	608.8	612.8	616.7	606.9	599.1	590.3	577.6	547.3	506.2	466.2
132.5°	726.1	727.1	728.1	728.1	702.7	685.1	658.7	622.5	583.4	542.4	501.3
135°	797.5	799.4	801.4	798.4	775.0	765.2	734.9	693.9	651.8	601.0	554.1
137.5°	886.4	885.4	886.4	889.3	871.7	862.9	818.0	764.2	702.7	645.0	589.3
140°	924.5	923.5	923.5	921.6	900.1	881.5	824.8	763.3	699.7	644.0	572.7
142.5°	839.5	848.3	849.3	852.2	835.6	815.1	764.2	708.5	647.0	586.4	507.2
145°	760.3	767.2	770.1	771.1	753.5	729.1	681.2	629.4	570.7	504.3	409.5
147.5°	681.2	682.1	684.1	678.2	648.9	622.5	582.5	530.7	469.1	397.8	327.4
150°	578.5	578.5	582.5	569.8	539.5	510.1	467.1	418.3	376.3	332.3	285.4
152.5°	437.8	434.9	438.8	437.8	414.4	401.7	380.2	356.7	333.3	308.8	277.5
155°	374.3	374.3	375.3	376.3	370.4	364.5	353.8	346.0	327.4	293.2	252.1
157.5°	377.2	379.2	380.2	381.1	371.4	360.6	335.2	303.0	269.7	225.8	170.0
160°	305.9	303.0	307.8	305.9	282.4	264.8	237.5	206.2	173.0	134.9	116.3
162.5°	209.1	206.2	209.1	206.2	187.6	173.0	145.6	130.0	123.1	115.3	105.5
165°	131.9	131.9	131.9	132.9	130.0	126.1	119.2	111.4	103.6	92.8	82.1
167.5°	101.6	100.7	102.6	102.6	99.7	91.9	87.0	81.1	73.3	46.9	24.4
170°	58.6	56.7	59.6	58.6	51.8	32.3	24.4	12.7	4.9	3.9	4.9
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1432.7	1432.7	1432.7	1432.7	1432.7	1432.7	1432.7	1432.7	1432.7	1432.7	1432.7
2.5°	1505.0	1498.2	1493.3	1488.4	1501.1	1477.6	1467.9	1462.0	1439.5	1433.7	1413.1
5°	1596.9	1582.2	1566.6	1544.1	1545.1	1511.9	1496.2	1480.6	1442.5	1416.1	1364.3
7.5°	1666.3	1641.8	1623.3	1599.8	1594.9	1538.2	1510.9	1489.4	1433.7	1383.8	1292.9
10°	1697.5	1702.4	1657.5	1615.4	1618.4	1565.6	1523.6	1498.2	1424.9	1336.9	1251.9
12.5°	1695.6	1655.5	1675.1	1636.0	1607.6	1554.9	1506.0	1462.0	1366.2	1266.6	1244.1
15°	1748.4	1676.0	1623.3	1621.3	1577.3	1513.8	1456.1	1397.5	1278.3	1197.2	1221.6
17.5°	1666.3	1688.7	1614.5	1545.1	1533.4	1442.5	1390.7	1331.1	1193.3	1137.6	1162.0
20°	1709.3	1584.2	1593.0	1493.3	1460.1	1378.9	1333.0	1267.5	1126.8	1089.7	1079.9
22.5°	1733.7	1594.9	1505.0	1473.7	1405.3	1337.9	1299.8	1235.3	1088.7	1067.2	1015.4
25°	1576.4	1632.1	1481.6	1464.0	1391.6	1329.1	1288.1	1224.5	1072.1	1043.7	976.3
27.5°	1620.3	1546.1	1551.9	1453.2	1411.2	1337.9	1292.9	1215.7	1069.1	1043.7	959.7
30°	1643.8	1535.3	1580.3	1456.1	1428.8	1359.4	1301.7	1208.9	1057.4	1032.0	963.6
32.5°	1563.6	1612.5	1534.3	1507.9	1444.4	1371.1	1306.6	1198.1	1044.7	999.8	899.1
35°	1697.5	1611.5	1550.9	1574.4	1439.5	1372.1	1303.7	1169.8	1034.9	965.6	823.8
37.5°	1974.1	1651.6	1644.8	1602.7	1453.2	1365.3	1264.6	1126.8	1001.7	882.5	754.5
40°	2408.0	1890.1	1727.8	1616.4	1481.6	1340.8	1222.6	1091.6	936.2	805.3	634.3
42.5°	2835.1	2321.0	1930.1	1683.9	1547.0	1369.2	1242.1	1088.7	883.5	745.7	558.0
43°	2909.4	2430.5	1979.0	1708.3	1572.4	1384.8	1256.8	1089.7	876.6	737.8	548.3
45°	3185.0	2877.1	2258.5	1847.1	1716.1	1477.6	1311.5	1075.0	851.2	691.9	531.6
47.5°	3461.5	3279.8	2613.2	2060.1	1878.3	1556.8	1293.9	1003.7	795.5	623.5	508.2
50°	3679.5	3480.1	2801.9	2235.0	1893.0	1496.2	1186.4	897.1	696.8	558.0	472.0
52.5°	3596.4	3534.8	3002.2	2376.7	1841.2	1385.8	1072.1	810.2	620.6	507.2	429.0
55°	3147.8	3429.3	3230.9	2501.8	1783.5	1311.5	1001.7	766.2	596.1	485.7	385.0
57.5°	2585.9	2976.8	3288.5	2532.1	1728.8	1264.6	961.6	735.9	579.5	456.4	347.9
60°	2195.0	2393.4	2941.6	2506.7	1661.4	1189.4	938.2	724.2	561.9	417.3	319.6
62.5°	2008.3	1967.3	2259.5	2304.4	1606.6	1138.5	932.3	718.3	532.6	361.6	293.2
65°	1915.5	1799.2	1799.2	1889.1	1555.8	1100.4	892.3	687.0	478.9	324.5	272.7
67.5°	1983.9	1712.2	1607.6	1548.0	1453.2	1079.9	879.6	715.4	462.3	306.9	250.2
70°	1988.8	1668.2	1546.1	1358.4	1310.5	1104.3	895.2	711.5	419.3	288.3	231.6
72.5°	1971.2	1650.6	1482.5	1221.6	1132.7	1098.5	909.8	622.5	371.4	259.0	223.8
75°	1908.6	1605.7	1423.9	1108.2	1017.3	1010.5	864.9	567.8	333.3	232.6	207.2
77.5°	1854.9	1516.7	1347.7	1035.9	934.3	919.6	782.8	488.6	284.4	207.2	189.6
80°	1813.8	1403.4	1206.0	979.2	865.9	838.5	673.3	415.3	245.3	182.8	174.9
82.5°	1722.0	1281.2	1066.2	911.8	790.6	760.3	598.1	351.8	201.3	158.3	152.5
85°	1536.3	1171.8	975.3	855.1	719.3	689.0	478.9	280.5	162.2	136.8	134.9
87.5°	1340.8	1093.6	913.8	791.6	667.5	586.4	393.8	227.7	135.8	121.2	122.2
90°	1206.0	1004.6	855.1	717.3	609.8	516.0	338.1	183.7	119.2	113.4	116.3
92.5°	1101.4	915.7	772.1	637.2	578.5	416.3	275.6	159.3	114.3	113.4	110.4
95°	1036.9	849.3	697.8	580.5	482.8	345.0	226.7	141.7	109.5	110.4	106.5
97.5°	966.5	762.3	625.5	531.6	434.9	293.2	188.6	131.9	105.5	107.5	102.6
100°	835.6	664.6	585.4	508.2	357.7	245.3	168.1	129.0	104.6	104.6	99.7
102.5°	717.3	591.3	541.4	434.9	295.1	211.1	155.4	127.0	105.5	101.6	95.8
105°	676.3	532.6	486.7	382.1	256.0	184.7	146.6	124.1	104.6	97.7	90.9
107.5°	623.5	442.7	418.3	316.6	230.6	171.0	145.6	123.1	103.6	92.8	85.0



REPORT NUMBER: P210681

CATALOG NUMBER: WPMLD-75-GL-UNV-7050

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	541.4	397.8	357.7	281.5	212.1	169.1	148.5	119.2	98.7	88.9	78.2
112.5°	489.6	382.1	321.5	258.0	206.2	174.0	150.5	112.4	92.8	83.1	73.3
115°	460.3	380.2	299.0	249.2	210.1	181.8	134.9	106.5	88.0	78.2	69.4
117.5°	461.3	386.0	299.0	248.2	214.0	163.2	123.1	98.7	83.1	73.3	66.5
120°	468.1	389.0	310.8	253.1	195.5	141.7	116.3	93.8	79.2	69.4	63.5
122.5°	469.1	398.7	310.8	239.4	168.1	131.9	114.3	88.0	75.3	65.5	59.6
125°	468.1	388.0	298.1	217.0	159.3	131.9	114.3	83.1	71.3	62.5	55.7
127.5°	452.5	388.0	289.3	220.9	172.0	142.7	111.4	78.2	67.4	58.6	50.8
130°	454.4	399.7	304.9	251.2	199.4	152.5	96.8	72.3	62.5	53.8	47.9
132.5°	479.8	426.1	338.1	295.1	228.7	147.6	84.0	63.5	56.7	49.8	43.0
135°	519.9	471.0	384.1	316.6	222.8	125.1	75.3	55.7	50.8	45.0	39.1
137.5°	543.4	481.8	393.8	288.3	184.7	102.6	68.4	49.8	45.9	41.0	35.2
140°	511.1	434.9	341.1	228.7	150.5	90.9	53.8	43.0	40.1	36.2	31.3
142.5°	435.9	343.0	260.0	185.7	132.9	83.1	43.0	37.1	34.2	31.3	27.4
145°	337.2	263.9	210.1	167.1	106.5	71.3	35.2	31.3	29.3	26.4	23.5
147.5°	277.5	231.6	189.6	144.6	97.7	51.8	27.4	26.4	24.4	22.5	19.5
150°	254.1	217.0	175.9	110.4	76.2	32.3	22.5	22.5	20.5	18.6	15.6
152.5°	245.3	198.4	126.1	88.0	66.5	18.6	18.6	17.6	16.6	14.7	12.7
155°	205.2	127.0	94.8	80.1	43.0	14.7	14.7	13.7	12.7	10.8	9.8
157.5°	117.3	102.6	89.9	70.4	13.7	10.8	10.8	9.8	8.8	8.8	8.8
160°	108.5	97.7	83.1	26.4	7.8	7.8	7.8	7.8	7.8	7.8	7.8
162.5°	96.8	81.1	31.3	6.8	6.8	6.8	7.8	7.8	7.8	7.8	7.8
165°	64.5	22.5	5.9	5.9	6.8	6.8	6.8	7.8	7.8	7.8	7.8
167.5°	6.8	5.9	5.9	5.9	6.8	6.8	6.8	7.8	7.8	7.8	7.8
170°	5.9	5.9	5.9	5.9	6.8	6.8	6.8	7.8	7.8	7.8	7.8
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P210681

CATALOG NUMBER: WPMLED-75-GL-UNV-7050

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1432.7	1432.7	1432.7	1432.7	1432.7	1432.7	1432.7	1432.7	1432.7	1432.7	1432.7
2.5°	1393.6	1365.3	1331.1	1314.4	1276.3	1257.8	1253.9	1251.9	1240.2	1237.2	1243.1
5°	1314.4	1269.5	1246.0	1271.4	1286.1	1320.3	1351.6	1356.5	1345.7	1332.0	1312.5
7.5°	1251.9	1273.4	1305.6	1331.1	1304.7	1258.7	1212.8	1169.8	1156.1	1151.2	1162.0
10°	1285.1	1323.2	1283.2	1219.6	1136.6	1124.8	1145.4	1139.5	1113.1	1092.6	1098.5
12.5°	1298.8	1249.9	1146.3	1125.8	1124.8	1106.3	1106.3	1125.8	1094.6	980.2	862.9
15°	1220.6	1118.0	1082.8	1096.5	1093.6	1093.6	974.3	791.6	681.2	631.3	600.1
17.5°	1093.6	1028.1	1036.9	1046.7	977.3	790.6	665.5	604.9	553.1	523.8	508.2
20°	989.0	974.3	961.6	904.0	719.3	609.8	556.1	515.0	483.8	479.8	463.2
22.5°	946.0	928.4	850.2	717.3	604.9	532.6	493.5	475.9	442.7	410.5	399.7
25°	945.0	851.2	713.4	617.6	551.2	500.4	466.2	419.3	392.9	371.4	353.8
27.5°	901.1	756.4	620.6	566.8	525.8	482.8	416.3	387.0	350.8	339.1	351.8
30°	828.7	641.1	566.8	534.6	504.3	447.6	391.9	354.8	348.9	330.3	324.5
32.5°	748.6	577.6	532.6	510.1	465.2	401.7	358.7	344.0	322.5	333.3	338.1
35°	636.2	533.6	507.2	470.1	427.1	370.4	344.0	324.5	339.1	321.5	374.3
37.5°	568.8	494.5	470.1	447.6	386.0	348.9	332.3	326.4	325.4	346.9	475.9
40°	513.1	456.4	424.1	403.6	366.5	336.2	327.4	323.5	350.8	439.8	457.4
42.5°	469.1	413.4	382.1	365.5	334.2	328.4	323.5	332.3	408.5	426.1	391.9
43°	463.2	405.6	372.3	359.6	331.3	323.5	323.5	336.2	411.4	434.9	369.4
45°	451.5	377.2	344.0	335.2	320.5	309.8	326.4	373.3	405.6	352.8	303.0
47.5°	432.9	350.8	324.5	315.7	307.8	304.9	324.5	377.2	342.0	279.5	277.5
50°	387.0	332.3	308.8	303.0	300.0	303.9	340.1	344.0	275.6	265.8	273.6
52.5°	347.9	310.8	297.1	292.2	293.2	292.2	321.5	287.3	264.8	260.9	240.4
55°	320.5	289.3	284.4	283.4	275.6	282.4	298.1	260.0	253.1	228.7	197.4
57.5°	301.0	274.6	275.6	266.8	255.1	268.8	264.8	247.3	222.8	187.6	158.3
60°	284.4	268.8	258.0	247.3	225.8	245.3	246.3	224.8	185.7	149.5	131.0
62.5°	268.8	258.0	239.4	222.8	198.4	237.5	220.9	188.6	149.5	120.2	112.4
65°	251.2	241.4	216.0	193.5	185.7	213.0	193.5	152.5	115.3	98.7	94.8
67.5°	235.5	217.9	191.5	173.0	176.9	186.7	159.3	120.2	88.0	79.2	71.3
70°	220.9	195.5	171.0	157.3	163.2	156.4	124.1	88.9	69.4	55.7	42.0
72.5°	207.2	186.7	157.3	144.6	146.6	130.0	94.8	65.5	46.9	28.3	11.7
75°	189.6	171.0	144.6	131.0	123.1	99.7	71.3	44.0	28.3	16.6	8.8
77.5°	172.0	151.5	130.0	114.3	99.7	72.3	55.7	40.1	26.4	14.7	7.8
80°	156.4	133.9	114.3	97.7	83.1	65.5	50.8	36.2	23.5	13.7	6.8
82.5°	139.8	119.2	100.7	88.0	75.3	59.6	45.9	32.3	20.5	11.7	6.8
85°	125.1	108.5	92.8	81.1	69.4	53.8	41.0	28.3	17.6	9.8	4.9
87.5°	114.3	102.6	89.9	79.2	65.5	50.8	38.1	25.4	15.6	8.8	4.9
90°	108.5	97.7	87.0	77.2	62.5	47.9	35.2	23.5	13.7	7.8	4.9
92.5°	103.6	93.8	84.0	74.3	59.6	45.0	31.3	20.5	12.7	6.8	3.9
95°	96.8	88.0	81.1	70.4	56.7	41.0	28.3	18.6	11.7	5.9	3.9
97.5°	93.8	81.1	76.2	66.5	52.8	37.1	25.4	16.6	9.8	4.9	3.9
100°	88.9	78.2	68.4	61.6	48.9	33.2	23.5	14.7	8.8	4.9	3.9
102.5°	85.0	74.3	65.5	54.7	43.0	31.3	20.5	12.7	7.8	3.9	3.9
105°	79.2	70.4	62.5	51.8	38.1	27.4	18.6	11.7	5.9	3.9	3.9
107.5°	74.3	66.5	57.7	48.9	35.2	24.4	16.6	9.8	5.9	3.9	2.9

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 CATALOG NUMBER: WPMLED-75-GL-UNV-7050

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	70.4	62.5	54.7	45.0	32.3	22.5	14.7	8.8	4.9	3.9	2.9	0°
112.5°	65.5	59.6	51.8	41.0	30.3	19.5	13.7	7.8	4.9	3.9	2.9	2.5°
115°	62.5	56.7	48.9	39.1	28.3	19.5	12.7	7.8	5.9	4.9	3.9	5°
117.5°	59.6	54.7	45.9	36.2	26.4	18.6	12.7	7.8	5.9	4.9	3.9	7.5°
120°	56.7	49.8	42.0	32.3	23.5	16.6	11.7	7.8	5.9	4.9	3.9	10°
122.5°	52.8	45.0	37.1	28.3	20.5	14.7	9.8	7.8	5.9	4.9	3.9	12.5°
125°	48.9	41.0	33.2	25.4	18.6	12.7	8.8	6.8	5.9	4.9	3.9	15°
127.5°	44.0	37.1	29.3	22.5	16.6	11.7	8.8	6.8	5.9	4.9	3.9	17.5°
130°	40.1	33.2	25.4	19.5	14.7	10.8	7.8	6.8	5.9	4.9	3.9	20°
132.5°	36.2	29.3	23.5	18.6	13.7	9.8	7.8	6.8	5.9	4.9	3.9	22.5°
135°	32.3	26.4	20.5	15.6	11.7	8.8	7.8	6.8	5.9	4.9	3.9	25°
137.5°	29.3	23.5	18.6	14.7	10.8	8.8	7.8	6.8	5.9	4.9	3.9	27.5°
140°	25.4	20.5	16.6	12.7	9.8	7.8	6.8	6.8	5.9	4.9	3.9	30°
142.5°	22.5	18.6	14.7	10.8	8.8	7.8	6.8	6.8	5.9	4.9	3.9	32.5°
145°	19.5	15.6	12.7	9.8	8.8	7.8	6.8	6.8	5.9	4.9	3.9	35°
147.5°	16.6	12.7	10.8	8.8	7.8	7.8	6.8	6.8	5.9	4.9	3.9	37.5°
150°	12.7	10.8	9.8	8.8	7.8	7.8	6.8	6.8	5.9	4.9	3.9	40°
152.5°	10.8	9.8	8.8	7.8	7.8	7.8	6.8	6.8	5.9	4.9	3.9	42.5°
155°	8.8	8.8	7.8	7.8	7.8	7.8	6.8	5.9	5.9	4.9	3.9	43°
157.5°	8.8	7.8	7.8	7.8	7.8	7.8	6.8	5.9	5.9	3.9	3.9	45°
160°	7.8	7.8	7.8	7.8	7.8	7.8	6.8	5.9	5.9	3.9	3.9	47.5°
162.5°	7.8	7.8	7.8	7.8	7.8	7.8	6.8	5.9	4.9	3.9	3.9	50°
165°	7.8	7.8	7.8	7.8	7.8	7.8	6.8	5.9	5.9	3.9	3.9	52.5°
167.5°	7.8	7.8	7.8	7.8	7.8	7.8	6.8	5.9	4.9	3.9	2.9	55°
170°	7.8	7.8	7.8	7.8	7.8	6.8	6.8	5.9	4.9	3.9	2.9	57.5°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

NUMBER: P210681
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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

160°	165°	170°	175°	180°
1432.7	1432.7	1432.7	1432.7	1432.7
1255.8	1272.4	1278.3	1274.4	1249.0
1296.9	1293.9	1284.1	1280.2	1279.3
1167.8	1173.7	1177.6	1177.6	1171.8
1119.0	1146.3	1147.3	1144.4	1139.5
791.6	741.8	707.6	694.8	683.1
574.6	557.0	546.3	539.5	531.6
495.5	496.5	499.4	492.5	486.7
443.7	432.0	419.3	418.3	412.4
389.9	372.3	360.6	357.7	353.8
345.0	359.6	353.8	351.8	347.9
329.3	328.4	317.6	313.7	314.7
336.2	349.9	339.1	336.2	332.3
337.2	408.5	361.6	368.4	374.3
394.8	541.4	488.6	460.3	445.6
443.7	502.3	495.5	472.0	454.4
467.1	404.6	363.5	351.8	349.9
345.0	329.3	318.6	318.6	318.6
330.3	320.5	313.7	314.7	313.7
291.2	303.9	306.9	303.9	300.0
289.3	285.4	281.5	280.5	275.6
257.0	243.3	237.5	221.8	217.0
213.0	196.4	197.4	183.7	177.9
174.0	162.2	155.4	142.7	140.7
143.7	131.0	133.9	130.0	129.0
121.2	123.1	131.0	138.8	142.7
107.5	112.4	124.1	126.1	125.1
88.9	93.8	96.8	91.9	88.0
62.5	63.5	61.6	57.7	56.7
33.2	28.3	27.4	22.5	21.5
5.9	5.9	4.9	4.9	4.9
5.9	5.9	5.9	5.9	5.9
5.9	6.8	5.9	5.9	5.9
6.8	6.8	6.8	6.8	6.8
5.9	6.8	6.8	6.8	5.9
4.9	4.9	4.9	4.9	4.9
4.9	4.9	4.9	4.9	4.9
3.9	4.9	4.9	4.9	4.9
3.9	4.9	4.9	4.9	3.9
3.9	4.9	4.9	3.9	3.9
3.9	3.9	3.9	3.9	3.9
3.9	3.9	3.9	3.9	3.9
2.9	2.9	2.9	2.9	2.9
2.9	2.9	2.9	2.9	2.9
2.9	2.9	2.0	2.0	2.0

CANDELA DISTRIBUTION:

	160°
110°	2.9
112.5°	2.9
115°	3.9
117.5°	3.9
120°	3.9
122.5°	3.9
125°	3.9
127.5°	3.9
130°	3.9
132.5°	3.9
135°	3.9
137.5°	3.9
140°	3.9
142.5°	3.9
145°	3.9
147.5°	3.9
150°	3.9
152.5°	3.9
155°	2.9
157.5°	2.9
160°	2.9
162.5°	2.9
165°	2.9
167.5°	2.9
170°	2.9
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

'210681

WPMLED-75-GL-UNV-7050

TION (continued):

165°	170°	175°	180°
2.9	2.0	2.0	2.0
2.9	2.0	2.0	1.0
2.9	2.9	2.9	2.0
3.9	2.9	2.9	2.9
3.9	2.9	2.9	2.9
3.9	2.9	2.9	2.9
3.9	2.9	2.9	2.0
3.9	2.9	2.9	2.0
2.9	2.9	2.0	2.0
2.9	2.9	2.0	2.0
2.9	2.9	2.0	2.0
2.9	2.9	2.0	2.0
2.9	2.9	2.0	2.0
2.9	2.9	2.0	2.0
2.9	2.9	2.0	2.0
2.9	2.9	2.0	2.0
2.9	2.9	2.0	2.0
2.9	2.9	2.0	2.0
2.9	2.9	2.0	2.0
2.9	2.0	2.0	1.0
2.9	2.0	2.0	2.0
2.9	2.0	2.0	1.0
2.9	2.0	2.0	1.0
2.9	2.0	2.0	1.0
2.9	2.0	2.0	1.0
2.9	2.0	2.0	1.0
2.9	2.0	1.0	1.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0

(END OF REPORT)