

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: P511359

Luminaire Tested: **WPMLED15B**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (UL-CCIC (Suzhou) Co.,Ltd)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WPMLED15B
Description: WALLPACK DEDICATED CCT
Light Source: (240) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7456 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.13m x L: 0.26m x H: 0.9m)
IES Classification: Type IV - Short
BUG Rating: B1 - U4 - G4

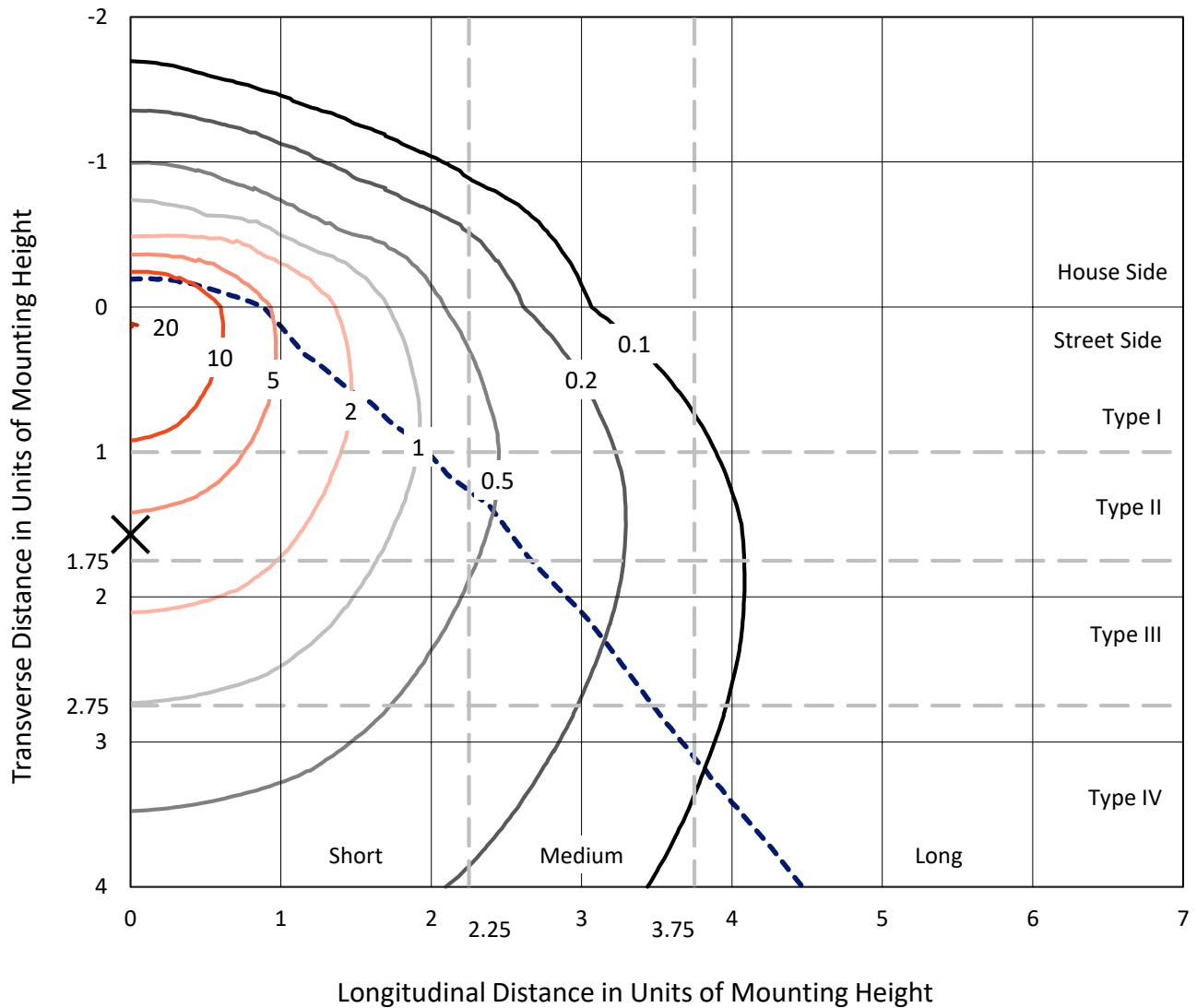
Input Watts (W): 57.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P511359
 CATALOG NUMBER: WPMLED15B

Iso-Footcandle Lines of Horizontal Illumination

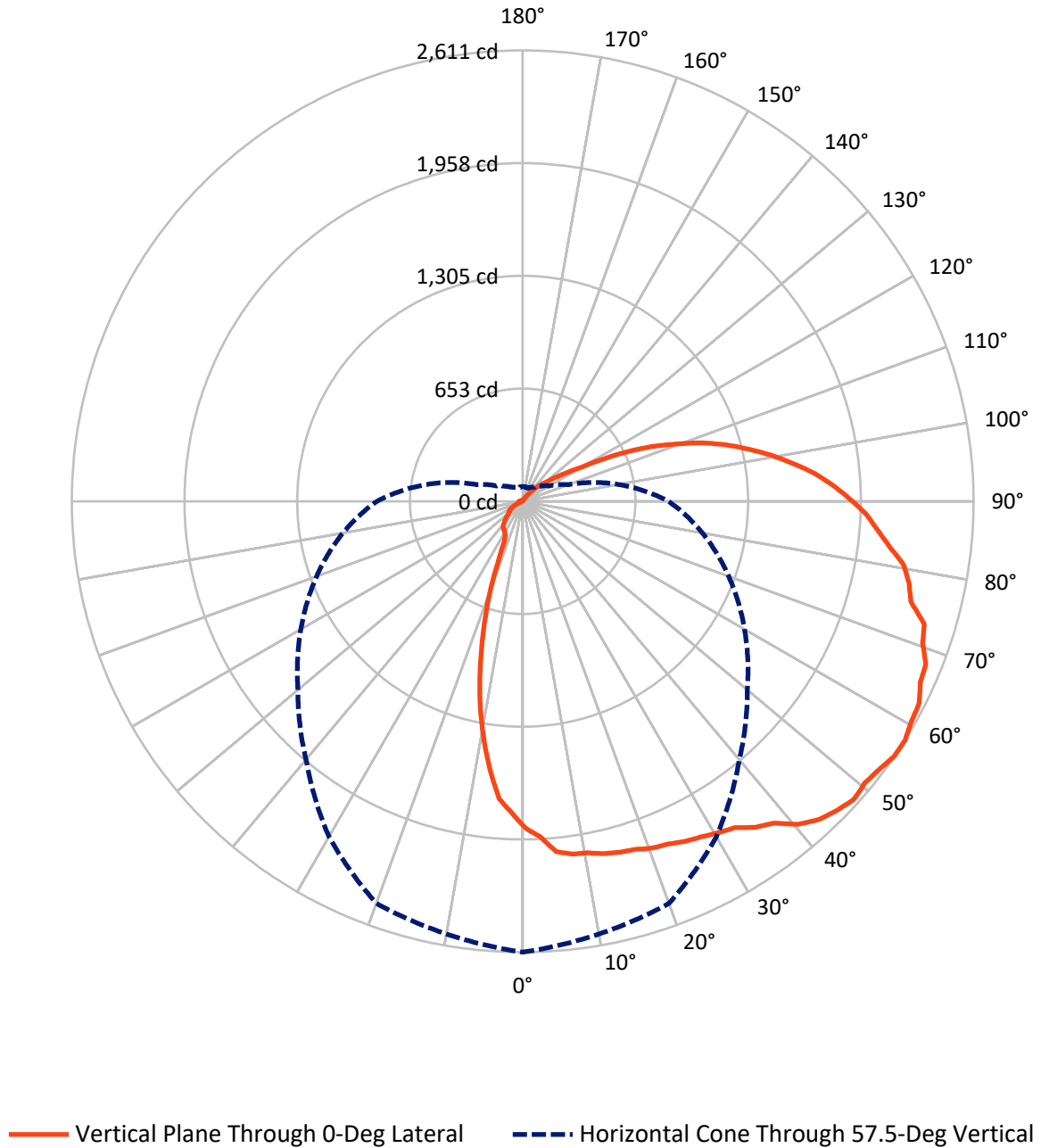
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P511359
CATALOG NUMBER: WPMLED15B

Luminous Intensity Polar Plot



REPORT NUMBER: P511359
 CATALOG NUMBER: WPML15B

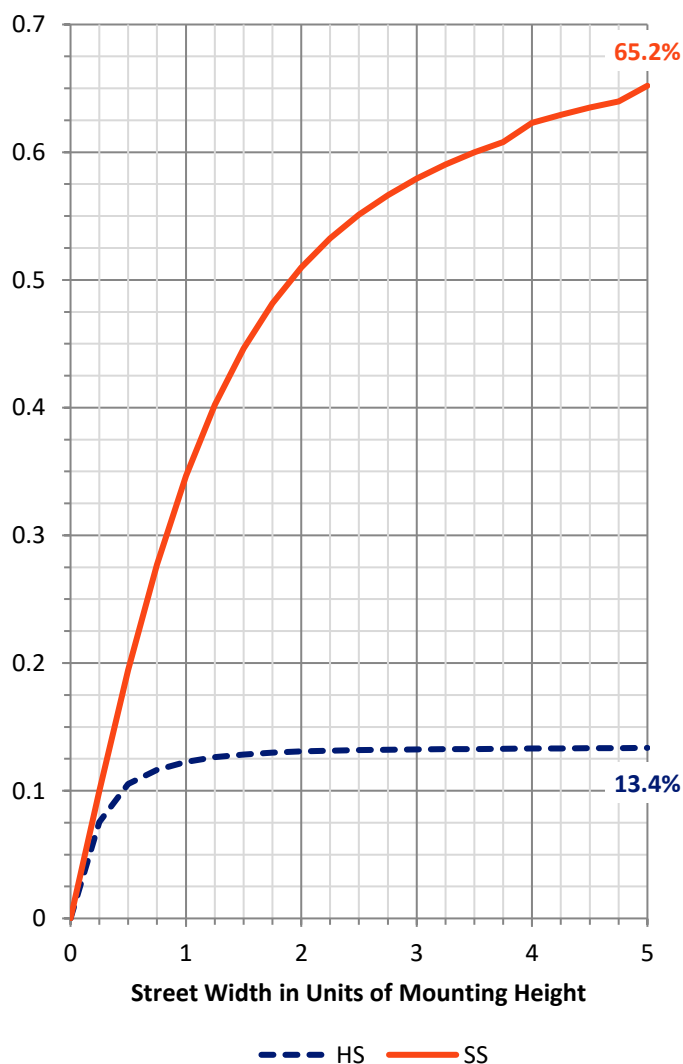
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1014.4	38.3	1052.7
	% Fixture	13.6	0.5	14.1
Street Side	Lumens	5342.0	1061.3	6403.3
	% Fixture	71.6	14.2	85.9
Total	Lumens	6356.4	1099.6	7456.0
	% Fixture	85.3	14.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.1	2.4
10°-20°	476.5	6.4
20°-30°	649.8	8.7
30°-40°	776.6	10.4
40°-50°	882.3	11.8
50°-60°	936.4	12.6
60°-70°	931.5	12.5
70°-80°	834.1	11.2
80°-90°	690.1	9.3
90°-100°	510.9	6.9
100°-110°	323.8	4.3
110°-120°	157.5	2.1
120°-130°	65.4	0.9
130°-140°	27.9	0.4
140°-150°	8.6	0.1
150°-160°	3.1	0.0
160°-170°	1.8	0.0
170°-180°	0.7	0.0
0°-90°	6356.4	85.3
0°-180°	7456.0	100.0

Coefficient of Utilization

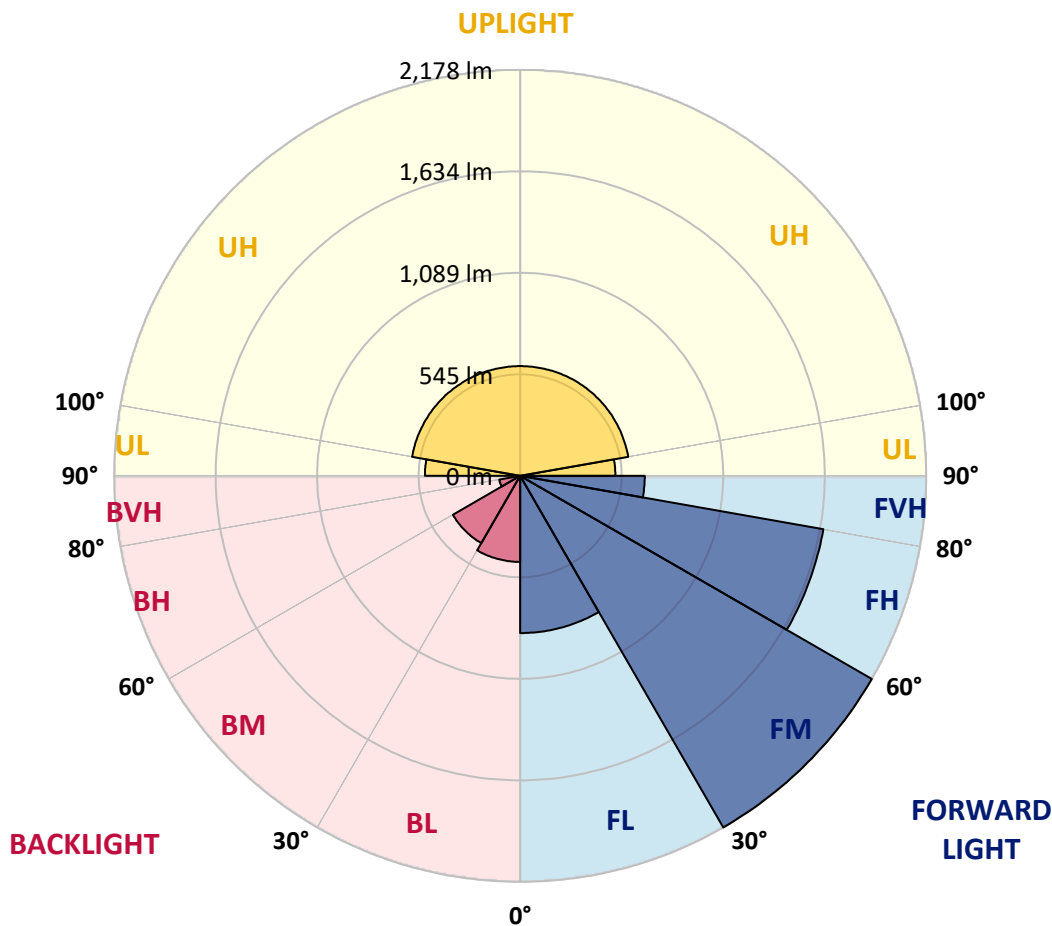


REPORT NUMBER: P511359
 CATALOG NUMBER: WPMLED15B

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	843.7	11.3			
FM (30°-60°)	2178.3	29.2			
FH (60°-80°)	1651.6	22.2			G1/1800
FVH (80°-90°)	668.5	9.0			G4/750
BL (0°-30°)	461.8	6.2	B1/500		
BM (30°-60°)	417.0	5.6	B1/1000		
BH (60°-80°)	114.0	1.5	B1/500		G1/500
BVH (80°-90°)	21.7	0.3			G1/100
UL (90°-100°)	510.9	6.9		U4/1000	
UH (100°-180°)	588.7	7.9		U4/1000	

BUG Rating: B1-U4-G4
 Type IV Short





REPORT NUMBER: P511359

CATALOG NUMBER: WPMLED15B

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1
2.5°	1946.0	1955.0	1963.9	1967.2	1968.5	1962.4	1949.0	1938.1	1934.5	1931.0	1909.8
5°	2037.5	2049.4	2061.3	2046.7	2023.4	2003.2	1986.2	1965.7	1934.9	1904.2	1877.0
7.5°	2062.4	2070.1	2077.8	2065.5	2046.6	2025.3	2001.5	1975.8	1944.4	1913.1	1867.8
10°	2070.5	2072.9	2075.4	2077.1	2078.5	2068.4	2046.8	2015.4	1955.1	1894.8	1840.8
12.5°	2094.0	2084.8	2075.6	2065.6	2055.4	2041.7	2024.6	1996.7	1936.3	1875.8	1802.8
15°	2107.8	2106.9	2106.0	2087.3	2062.6	2043.5	2030.0	1999.6	1918.7	1837.8	1749.3
17.5°	2119.3	2122.1	2125.0	2102.4	2071.3	2038.9	2005.0	1961.5	1888.5	1815.5	1695.6
20°	2143.2	2135.4	2127.7	2100.5	2066.8	2029.5	1988.4	1938.0	1859.4	1780.8	1636.4
22.5°	2156.0	2141.4	2126.7	2091.0	2048.4	2000.5	1947.3	1887.6	1808.4	1729.3	1554.7
25°	2182.2	2167.4	2152.6	2102.6	2041.0	1976.1	1907.9	1838.8	1767.0	1695.2	1492.1
27.5°	2200.4	2183.9	2167.4	2104.9	2027.1	1950.9	1876.4	1802.3	1730.2	1658.1	1418.3
30°	2227.3	2199.5	2171.8	2099.5	2012.4	1929.2	1849.7	1770.3	1690.9	1611.5	1351.8
32.5°	2253.6	2224.1	2194.5	2108.0	2002.6	1902.6	1807.9	1715.3	1629.1	1543.0	1264.0
35°	2318.2	2280.2	2242.1	2131.2	1996.1	1878.1	1777.5	1676.7	1575.4	1474.1	1177.6
37.5°	2364.6	2327.9	2291.3	2156.3	1988.6	1848.7	1736.6	1626.8	1523.8	1420.8	1097.9
40°	2459.0	2400.2	2341.4	2183.7	1993.0	1833.8	1706.1	1580.8	1463.0	1345.2	1012.1
42.5°	2517.9	2447.9	2378.0	2206.8	2001.8	1824.0	1673.4	1528.6	1401.6	1274.5	932.0
45°	2552.2	2481.5	2410.9	2225.2	2001.2	1805.6	1638.3	1479.0	1343.8	1208.7	861.5
47.5°	2580.5	2508.9	2437.4	2250.9	2026.0	1814.1	1615.4	1429.1	1280.5	1131.8	787.7
50°	2566.6	2500.1	2433.7	2234.2	1990.4	1766.8	1563.5	1373.0	1221.3	1069.6	726.3
52.5°	2581.5	2511.4	2441.3	2233.0	1978.7	1750.9	1549.9	1354.0	1173.6	993.3	666.7
55°	2608.6	2534.2	2459.8	2233.9	1957.5	1718.2	1516.0	1315.2	1119.0	922.8	615.0
57.5°	2610.6	2544.0	2477.4	2242.4	1951.2	1698.2	1483.4	1269.1	1056.4	843.8	562.1
60°	2585.8	2530.8	2475.8	2226.3	1911.7	1657.2	1462.6	1255.7	1011.6	767.5	514.5
62.5°	2576.4	2525.6	2474.7	2225.7	1910.6	1642.6	1421.7	1192.8	940.1	687.3	462.5
65°	2529.9	2482.8	2435.7	2187.4	1872.1	1608.7	1397.2	1166.9	880.2	593.5	404.3
67.5°	2517.2	2456.9	2396.7	2144.2	1827.7	1557.4	1333.4	1090.9	793.2	495.5	342.7
70°	2457.0	2407.6	2358.3	2104.2	1781.9	1516.8	1308.9	1069.6	736.0	402.4	284.2
72.5°	2430.9	2360.5	2290.2	2035.1	1718.5	1452.0	1235.6	988.8	650.8	312.7	225.7
75°	2320.7	2270.9	2221.0	1979.1	1673.3	1409.4	1187.5	934.2	586.5	238.8	178.2
77.5°	2286.8	2228.6	2170.5	1920.3	1606.1	1335.6	1108.9	854.7	518.4	182.1	140.9
80°	2236.2	2172.6	2109.0	1859.1	1547.1	1271.5	1032.4	774.0	458.2	142.3	112.7
82.5°	2137.9	2077.5	2017.2	1771.4	1463.8	1190.6	951.9	700.1	409.3	118.4	95.6
85°	2056.5	1993.9	1931.3	1686.3	1380.4	1106.9	865.5	619.0	357.0	95.1	77.6
87.5°	1985.2	1916.2	1847.2	1602.9	1300.2	1027.4	784.4	544.0	311.2	78.4	66.1
90°	1891.0	1820.8	1750.6	1511.1	1215.2	945.6	702.2	468.6	264.5	60.3	53.0
92.5°	1796.7	1721.9	1647.1	1412.2	1123.9	858.9	617.3	393.5	223.2	53.0	47.4
95°	1695.6	1620.0	1544.4	1316.7	1038.4	778.9	538.4	323.6	185.8	47.9	43.0
97.5°	1579.3	1500.5	1421.8	1206.3	945.3	698.4	465.8	263.9	154.2	44.4	38.3
100°	1463.1	1383.7	1304.2	1098.0	849.4	616.2	398.4	213.7	128.2	42.8	36.2
102.5°	1341.3	1260.6	1179.9	986.5	755.4	539.5	338.6	171.7	106.8	41.9	35.0
105°	1222.0	1135.1	1048.2	868.5	658.0	464.9	289.2	144.3	92.1	39.9	33.4
107.5°	1094.1	1006.7	919.3	754.4	563.7	392.9	242.2	119.1	79.0	39.0	30.8
110°	945.7	866.7	787.6	640.8	471.3	325.2	202.6	102.6	70.0	37.5	29.5



REPORT NUMBER: P511359
 CATALOG NUMBER: WPML15B

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	809.6	731.3	653.2	526.3	383.2	263.9	168.3	90.0	63.4	36.9	28.1
115°	661.1	592.9	524.7	421.7	306.9	213.3	140.7	80.5	57.3	34.2	25.4
117.5°	501.3	455.0	408.8	333.2	247.9	176.2	118.0	69.6	50.3	31.0	22.2
120°	375.4	350.5	325.7	271.3	207.0	151.2	103.8	63.9	46.3	28.7	20.4
122.5°	302.0	285.8	269.7	226.7	174.7	129.5	91.2	58.2	41.6	24.9	17.7
125°	244.9	236.9	228.9	193.7	149.6	111.4	79.1	51.1	35.9	20.6	14.6
127.5°	198.2	194.6	191.1	162.1	124.6	92.8	66.6	43.7	30.5	17.3	13.0
130°	163.2	162.2	161.1	135.6	101.8	75.4	56.4	39.2	27.6	16.1	12.3
132.5°	136.0	137.4	138.8	116.8	87.1	63.9	47.2	32.3	23.1	13.9	10.2
135°	114.5	111.0	107.4	91.3	70.8	53.8	40.0	27.8	20.1	12.5	9.8
137.5°	83.5	82.1	80.8	70.4	57.1	44.7	33.3	23.1	16.6	10.2	8.0
140°	56.7	57.6	58.5	51.4	41.6	33.0	25.6	18.8	14.0	9.2	8.1
142.5°	40.2	41.8	43.5	38.0	30.1	23.8	19.2	15.0	12.3	9.6	7.9
145°	28.4	29.4	30.4	27.1	22.4	17.8	13.5	9.9	8.3	6.8	6.4
147.5°	21.1	20.9	20.8	19.3	17.4	14.9	11.7	9.0	7.9	6.7	5.8
150°	13.4	13.0	12.7	12.4	12.3	11.3	9.5	8.1	7.5	7.0	5.8
152.5°	7.2	8.2	9.2	9.5	9.7	9.2	8.1	7.0	5.6	4.3	5.1
155°	9.6	9.6	9.7	8.7	7.4	6.5	6.1	5.6	5.3	4.9	5.4
157.5°	6.0	6.7	7.5	7.2	6.6	6.0	5.6	5.2	4.9	4.7	4.8
160°	7.2	7.4	7.7	6.4	4.7	4.1	4.8	5.4	5.2	5.2	5.5
162.5°	5.2	5.5	5.8	5.6	5.2	5.0	4.9	4.9	5.2	5.6	5.0
165°	5.2	6.0	6.8	6.4	5.7	5.6	6.0	6.3	6.0	5.7	5.7
167.5°	6.4	5.9	5.5	5.6	5.8	5.8	5.6	5.5	5.8	6.2	6.2
170°	6.1	6.8	7.5	7.1	6.4	6.0	6.0	6.1	6.4	6.7	6.3
172.5°	6.2	6.4	6.7	6.6	6.5	6.6	6.9	7.1	6.8	6.5	6.8
175°	6.8	6.5	6.2	6.3	6.4	6.7	7.2	7.7	8.5	9.2	8.0
177.5°	7.1	7.7	8.2	8.4	8.5	8.0	6.9	6.2	6.8	7.4	7.5
180°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4



REPORT NUMBER: P511359
 CATALOG NUMBER: WPMLED15B

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1
2.5°	1888.8	1876.3	1866.7	1854.7	1840.3	1826.7	1815.9	1805.0
5°	1849.9	1833.1	1819.7	1801.0	1777.0	1755.5	1741.5	1727.5
7.5°	1822.5	1777.1	1731.7	1691.6	1656.9	1623.2	1592.4	1561.6
10°	1786.9	1716.9	1641.6	1571.4	1506.4	1448.7	1413.2	1377.8
12.5°	1729.8	1633.1	1528.6	1430.9	1340.0	1262.5	1224.8	1187.1
15°	1660.8	1532.4	1390.7	1264.9	1154.9	1061.6	1018.3	975.0
17.5°	1575.8	1420.3	1252.9	1103.3	971.4	860.9	814.2	767.5
20°	1491.9	1307.1	1109.0	940.5	801.8	684.7	632.5	580.3
22.5°	1380.2	1173.3	955.6	772.4	623.8	497.7	438.9	380.1
25°	1289.1	1054.5	809.4	609.6	455.3	330.4	293.7	257.1
27.5°	1178.6	926.8	671.0	478.8	350.4	250.6	236.9	223.3
30°	1092.0	824.6	554.7	375.9	288.3	221.1	215.0	208.8
32.5°	984.9	719.6	458.9	302.3	249.7	209.0	204.0	198.8
35°	881.3	627.8	388.7	253.9	223.2	199.6	197.3	195.0
37.5°	774.9	540.8	336.3	224.4	205.2	190.6	189.6	188.6
40°	679.0	469.1	300.2	207.9	192.2	179.7	176.8	173.8
42.5°	589.5	402.2	266.4	191.3	176.9	164.8	159.8	154.9
45°	514.2	347.2	240.2	178.6	162.6	149.1	143.7	138.2
47.5°	443.7	295.8	213.3	163.6	146.6	132.7	127.7	122.8
50°	383.0	250.7	188.7	150.0	134.7	121.2	113.6	106.0
52.5°	340.2	220.9	170.6	136.6	119.1	105.0	101.3	97.7
55°	307.3	196.7	151.8	120.9	104.0	91.2	90.9	90.6
57.5°	280.4	178.1	135.6	107.2	92.7	82.2	84.0	85.7
60°	261.4	165.3	121.7	93.0	79.5	69.8	71.6	73.5
62.5°	237.6	150.3	108.7	81.2	67.7	57.3	56.0	54.7
65°	215.2	137.0	95.7	68.6	55.7	45.2	42.4	39.5
67.5°	190.0	121.7	81.5	55.6	43.9	34.4	31.7	29.1
70°	166.0	108.0	70.1	44.1	30.2	18.5	13.5	8.5
72.5°	138.6	91.6	57.9	34.3	20.9	11.1	12.4	13.7
75°	117.7	79.4	48.6	28.9	20.3	14.2	15.3	16.3
77.5°	99.7	69.5	42.8	26.6	21.2	17.1	17.6	18.0
80°	83.2	59.7	38.2	25.3	20.9	17.9	19.2	20.4
82.5°	72.7	52.8	33.8	23.0	20.5	18.8	19.6	20.4
85°	60.0	44.3	29.1	20.8	19.4	18.8	20.6	22.4
87.5°	53.8	40.2	26.2	19.0	18.5	18.4	19.3	20.4
90°	45.8	35.4	24.0	17.8	16.9	16.7	18.4	20.2
92.5°	41.9	32.1	20.8	15.4	15.8	16.3	17.6	18.8
95°	38.2	29.6	19.7	14.8	14.9	15.3	16.6	18.0
97.5°	32.2	24.5	16.2	12.4	13.2	14.2	15.2	16.2
100°	29.6	22.2	14.4	11.1	12.2	13.3	14.5	15.7
102.5°	28.3	20.9	13.4	10.3	11.6	12.8	13.5	14.2
105°	26.8	19.8	12.6	9.3	9.8	10.5	11.6	12.8
107.5°	22.5	16.5	11.3	8.9	9.2	9.6	10.4	11.2
110°	21.6	15.6	10.2	7.8	8.3	8.6	8.5	8.2



REPORT NUMBER: P511359
 CATALOG NUMBER: WPMLD15B

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	19.3	13.7	9.1	7.1	7.7	7.9	7.4	6.8
115°	16.6	11.5	7.5	5.5	5.5	5.4	4.8	4.3
117.5°	13.2	8.7	5.8	4.0	3.5	3.3	4.1	4.9
120°	12.1	7.9	5.1	3.9	4.4	4.7	4.7	4.7
122.5°	10.4	6.7	4.1	3.2	3.9	4.5	4.8	5.0
125°	8.5	5.9	4.4	3.2	2.4	1.9	2.7	3.5
127.5°	8.7	5.7	3.1	2.4	3.6	4.6	4.6	4.6
130°	8.5	6.3	4.6	3.8	3.9	4.1	4.4	4.8
132.5°	6.5	4.6	3.2	2.8	3.1	3.6	4.7	5.8
135°	7.2	5.7	4.6	4.6	5.6	6.2	5.8	5.3
137.5°	5.9	4.7	3.9	4.0	4.8	5.4	5.0	4.7
140°	7.0	5.8	4.7	4.5	5.2	5.6	5.2	4.7
142.5°	6.2	5.2	4.5	4.4	4.8	5.2	5.4	5.5
145°	6.1	5.4	4.5	4.3	4.7	5.1	5.2	5.4
147.5°	4.8	4.3	4.0	3.8	3.6	3.6	4.4	5.3
150°	4.5	4.3	4.3	4.3	4.4	4.8	6.0	7.3
152.5°	5.9	5.6	5.1	5.4	6.5	7.2	6.7	6.3
155°	5.9	5.9	5.6	5.5	5.6	5.9	6.4	7.1
157.5°	5.0	5.5	6.0	6.2	6.0	5.9	6.6	7.2
160°	5.8	6.2	6.6	6.5	6.1	5.9	6.7	7.4
162.5°	4.4	5.2	6.5	7.4	7.7	7.9	7.4	6.9
165°	5.8	6.2	6.7	7.4	8.1	8.3	7.1	6.0
167.5°	6.1	6.2	6.3	6.6	7.3	7.7	7.2	6.7
170°	6.0	6.8	8.1	8.6	8.6	8.4	7.9	7.5
172.5°	7.2	7.9	8.7	8.7	8.0	7.5	7.7	7.9
175°	6.8	6.8	7.3	7.7	8.3	8.6	8.1	7.5
177.5°	7.7	8.2	9.0	9.3	9.0	8.6	7.6	6.6
180°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4

(END OF REPORT)