

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: P303578

Luminaire Tested: **WPMLED10-C**

Issue Date: 6/24/2020

Test Information

Test Method: LM-79-08
Report Number: P303578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1906-360-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 6/24/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WPMLED10-C
Description: MEDIUM LED WALL PACK - 40W, 5000K
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4765.6 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.03' x L: 0.25' x H: 0.69')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

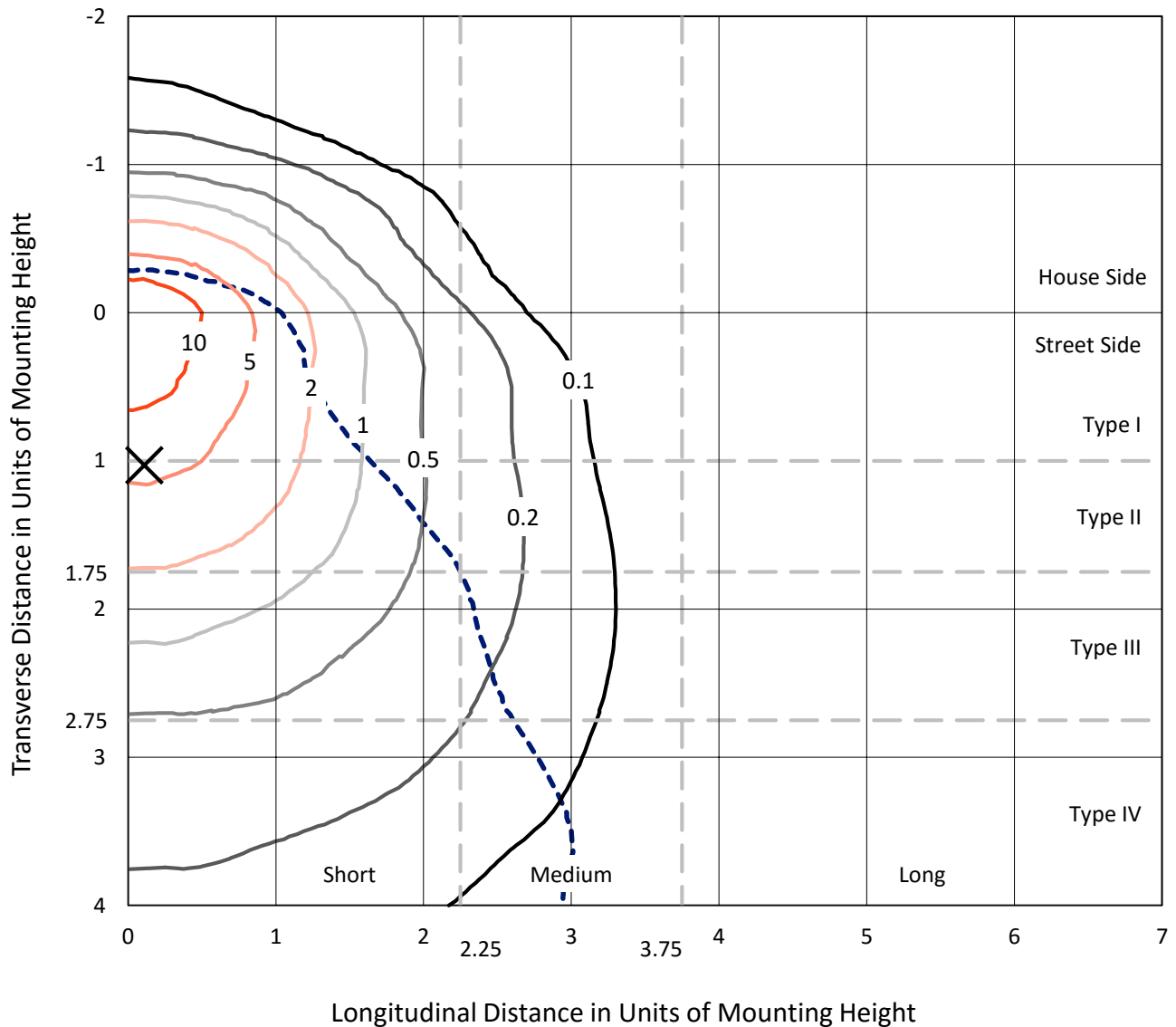
Input Watts (W): 38.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

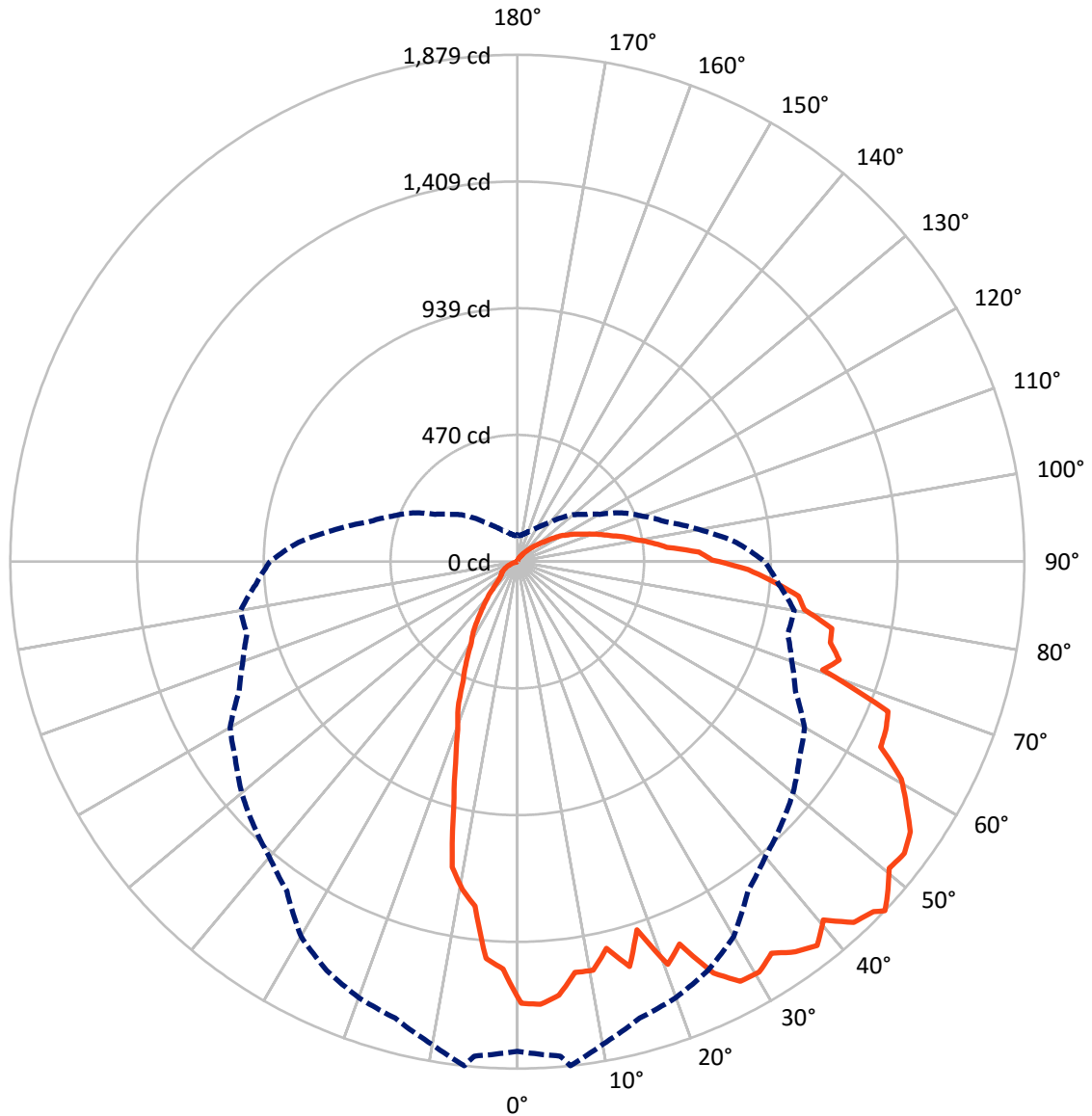
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 6-Deg Lateral - - - Horizontal Cone Through 46-Deg Vertical



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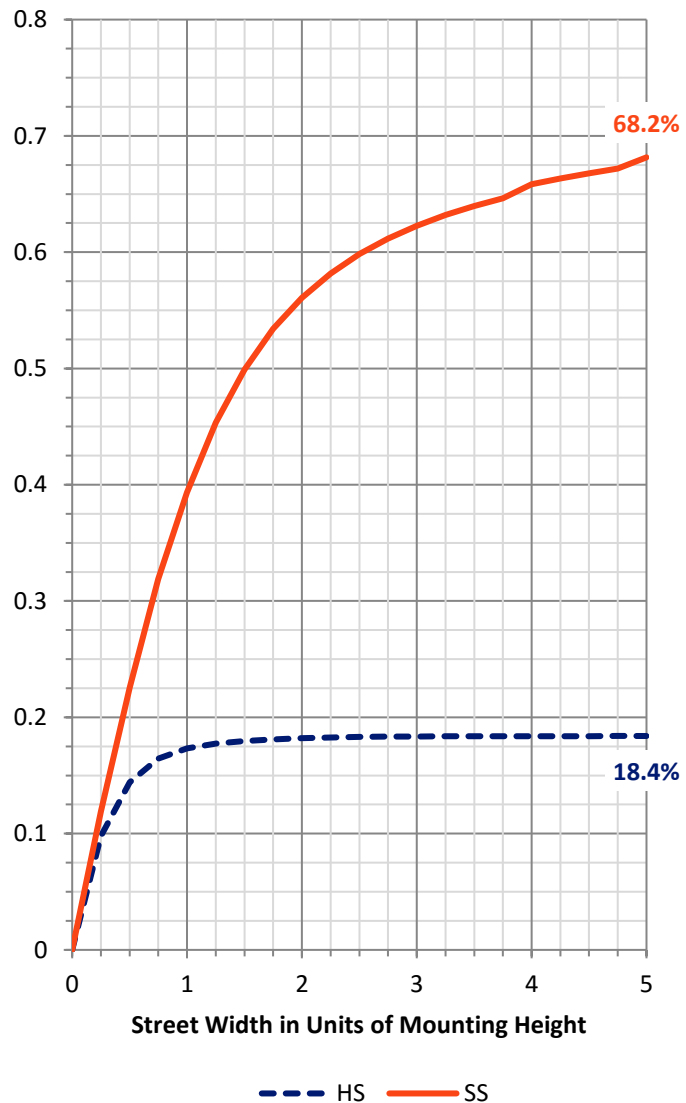
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	885.4	5.9	891.3
	% Fixture	18.6	0.1	18.7
Street Side	Lumens	3469.1	405.1	3874.3
	% Fixture	72.8	8.5	81.3
Total	Lumens	4354.5	411.0	4765.6
	% Fixture	91.4	8.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.6	3.1
10°-20°	379.7	8.0
20°-30°	531.2	11.1
30°-40°	633.0	13.3
40°-50°	672.5	14.1
50°-60°	654.2	13.7
60°-70°	575.0	12.1
70°-80°	446.7	9.4
80°-90°	316.6	6.6
90°-100°	185.6	3.9
100°-110°	107.5	2.3
110°-120°	63.1	1.3
120°-130°	32.7	0.7
130°-140°	14.5	0.3
140°-150°	5.5	0.1
150°-160°	1.8	0.0
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-90°	4354.5	91.4
0°-180°	4765.6	100.0

Coefficient of Utilization



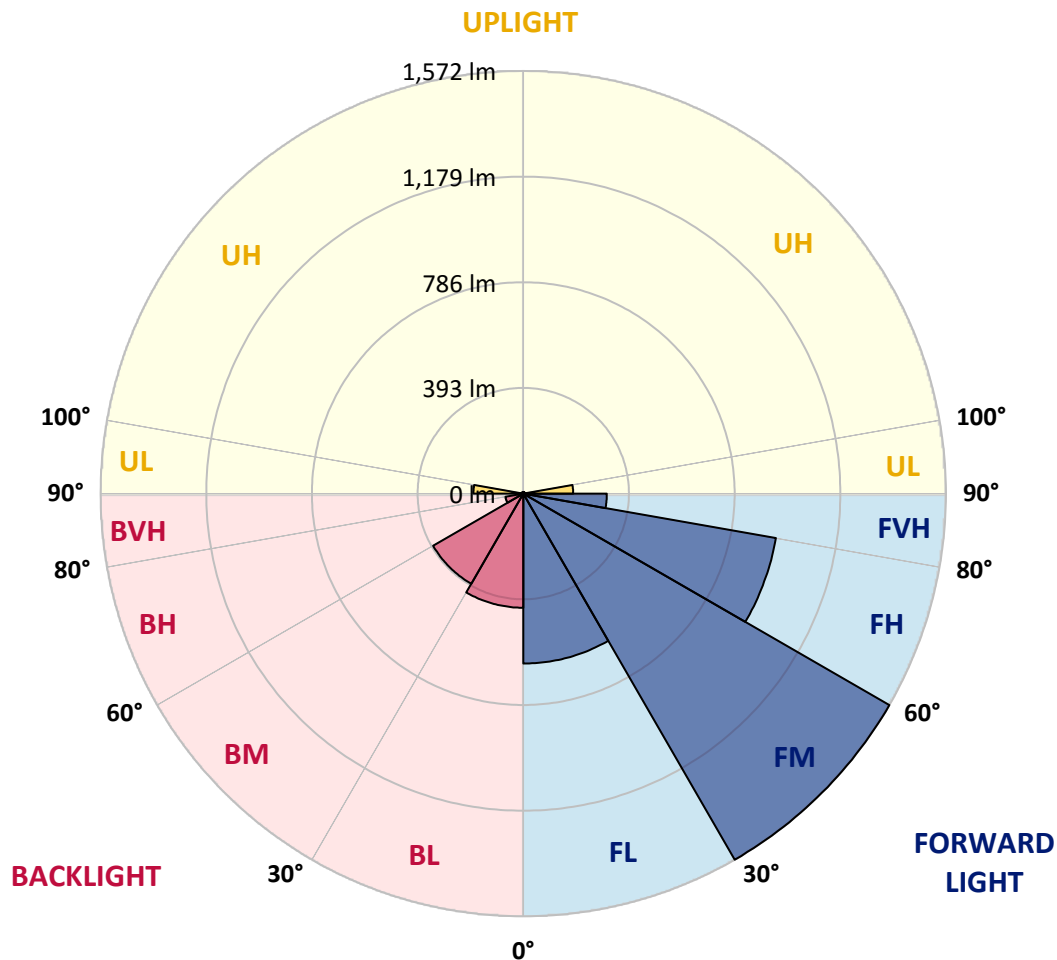
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	632.0	13.3			
FM (30°-60°)	1572.4	33.0			
FH (60°-80°)	954.1	20.0			G1/1800
FVH (80°-90°)	310.6	6.5			G3/500
BL (0°-30°)	424.5	8.9	B1/500		
BM (30°-60°)	387.2	8.1	B1/1000		
BH (60°-80°)	67.6	1.4	B0/110		G0/110
BVH (80°-90°)	6.0	0.1			G0/10
UL (90°-100°)	185.6	3.9		U3/500	
UH (100°-180°)	5.9	0.1		U1/10	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	6°	10°	15°	20°	25°	30°	35°	40°	45°
0°	1636.6	1636.6	1636.6	1636.6	1636.6	1636.6	1636.6	1636.6	1636.6	1636.6	1636.6
2.5°	1686.2	1664.1	1642.4	1628.8	1592.2	1556.9	1588.3	1579.8	1594.6	1583.8	1639.0
5°	1670.5	1642.1	1613.7	1603.7	1601.6	1621.8	1678.6	1663.5	1670.8	1662.6	1724.8
7.5°	1598.3	1561.7	1537.2	1541.8	1555.1	1512.5	1532.7	1555.1	1549.3	1508.6	1604.9
10°	1587.4	1557.2	1540.3	1572.0	1537.5	1525.2	1577.4	1519.7	1543.3	1514.6	1546.0
12.5°	1502.8	1475.9	1470.2	1485.9	1442.4	1459.6	1470.5	1495.0	1494.7	1558.1	1562.0
15°	1565.3	1540.9	1556.9	1546.0	1539.4	1502.8	1509.5	1438.5	1433.9	1455.4	1508.2
17.5°	1449.3	1433.0	1433.9	1396.5	1375.9	1375.6	1426.1	1478.9	1540.6	1447.5	1446.9
20°	1578.3	1585.3	1592.8	1575.9	1539.4	1487.1	1469.0	1394.1	1375.6	1438.8	1550.8
22.5°	1543.0	1545.7	1539.4	1511.0	1456.3	1450.6	1508.9	1543.0	1469.3	1355.7	1408.9
25°	1672.3	1676.2	1688.9	1673.8	1626.1	1580.4	1530.0	1453.6	1453.3	1503.7	1411.9
27.5°	1755.6	1738.7	1760.8	1696.7	1622.7	1581.7	1610.7	1601.3	1482.6	1407.4	1490.7
30°	1737.2	1741.4	1765.6	1743.0	1717.6	1697.0	1674.4	1587.1	1550.5	1509.8	1408.0
32.5°	1696.4	1703.7	1729.7	1693.4	1665.0	1640.6	1660.2	1649.0	1578.0	1506.7	1497.4
35°	1742.1	1747.5	1775.9	1728.8	1674.1	1632.4	1633.6	1609.4	1551.7	1536.3	1481.1
37.5°	1745.4	1759.3	1804.6	1764.1	1721.5	1684.7	1649.9	1591.9	1533.6	1496.2	1492.8
40°	1689.8	1705.8	1746.3	1693.1	1642.4	1636.6	1647.8	1606.7	1513.7	1479.9	1446.6
42.5°	1773.8	1787.4	1827.5	1748.4	1666.5	1627.3	1620.3	1585.9	1498.6	1454.2	1415.2
45°	1796.7	1817.3	1850.5	1783.1	1727.9	1691.6	1659.0	1576.8	1488.3	1437.9	1392.9
46°	1814.2	1839.3	1878.6	1816.7	1751.1	1718.8	1671.4	1603.4	1489.5	1429.1	1381.7
47.5°	1781.0	1807.9	1845.7	1799.1	1758.4	1732.1	1710.6	1630.3	1514.9	1427.0	1359.3
50°	1726.6	1746.3	1785.9	1744.5	1697.9	1690.1	1697.6	1661.4	1541.8	1455.4	1343.0
52.5°	1735.1	1753.8	1796.4	1765.3	1719.4	1701.6	1667.7	1609.7	1520.0	1465.4	1353.9
55°	1734.5	1735.1	1767.1	1697.6	1593.4	1593.7	1623.3	1608.8	1516.4	1448.7	1333.3
57.5°	1634.5	1646.6	1699.8	1685.0	1624.8	1612.8	1613.1	1576.2	1487.7	1424.3	1314.0
60°	1591.0	1585.0	1635.1	1615.2	1554.2	1560.8	1553.3	1489.2	1417.9	1399.8	1295.9
62.5°	1467.2	1460.5	1511.3	1505.5	1482.3	1489.5	1497.1	1503.4	1419.1	1339.7	1237.6
65°	1461.7	1451.2	1501.3	1468.7	1411.0	1397.7	1398.3	1373.8	1332.7	1319.5	1203.8
67.5°	1436.1	1436.7	1481.4	1469.0	1414.0	1389.2	1364.8	1330.3	1266.6	1230.9	1148.5
70°	1168.7	1157.2	1200.4	1214.0	1247.3	1303.4	1276.9	1230.6	1198.9	1170.2	1086.6
72.5°	1222.5	1208.0	1247.6	1254.8	1277.5	1280.8	1287.7	1317.6	1176.9	1067.5	971.5
75°	1173.6	1168.4	1197.7	1169.9	1118.0	1112.5	1106.5	1100.5	1053.0	1003.5	885.4
77.5°	1173.9	1164.5	1191.4	1155.4	1098.6	1078.7	1046.4	997.1	944.9	937.0	865.7
80°	1053.0	1059.7	1078.4	1078.1	1081.1	1110.1	1067.5	989.3	905.0	848.8	780.9
82.5°	1043.1	1035.5	1049.7	1031.9	998.7	980.8	933.4	925.2	883.6	803.2	692.4
85°	945.5	941.6	952.1	948.2	931.6	951.2	917.7	848.5	781.8	723.2	634.1
87.5°	849.1	847.6	856.4	835.2	810.8	796.6	762.4	744.3	709.9	654.3	566.7
90°	719.8	716.5	721.0	708.1	691.4	685.7	676.6	666.7	610.2	553.7	483.9
92.5°	675.1	688.4	673.6	672.7	657.9	644.6	608.1	551.3	504.2	464.6	419.6
95°	555.5	555.5	556.4	550.1	537.7	528.0	511.4	483.3	447.1	420.5	371.9
97.5°	506.0	506.3	503.3	498.4	483.9	472.1	456.1	433.2	404.2	370.6	317.5
100°	448.3	449.8	447.7	450.1	440.7	437.1	420.5	390.3	353.7	316.3	269.1
102.5°	410.2	408.7	406.0	402.4	390.6	377.6	360.7	338.3	311.4	276.7	231.1
105°	363.7	365.5	359.5	359.5	351.3	341.9	327.4	303.6	274.0	238.6	202.4
107.5°	331.4	330.8	325.0	323.5	316.9	303.9	290.9	266.4	239.8	210.8	175.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	6°	10°	15°	20°	25°	30°	35°	40°	45°
110°	297.2	298.7	292.7	292.1	283.6	271.9	258.0	235.0	209.9	183.1	154.1
112.5°	265.8	266.7	260.4	260.1	252.8	241.7	231.1	209.9	188.2	163.4	138.7
115°	242.9	244.1	237.1	237.1	230.2	217.8	206.3	184.0	163.4	141.4	119.9
117.5°	217.2	216.0	210.5	210.8	203.6	190.9	181.8	162.2	142.9	123.5	105.1
120°	195.4	196.0	189.7	189.1	180.9	169.8	158.9	142.6	126.6	110.0	93.0
122.5°	166.7	166.7	160.7	160.7	153.5	142.9	133.8	117.5	105.4	92.4	79.1
125°	137.1	137.7	131.7	132.0	125.7	116.9	111.8	100.3	90.6	79.7	69.2
127.5°	116.9	118.1	113.3	114.2	109.4	101.8	97.6	86.7	78.8	68.0	58.9
130°	99.4	99.7	96.4	96.4	92.4	86.7	83.1	74.6	67.4	58.9	49.8
132.5°	85.5	85.5	81.9	82.2	78.2	72.8	70.1	62.5	56.5	49.2	42.9
135°	71.3	71.3	68.6	68.6	64.9	60.1	58.0	52.0	46.8	41.7	35.6
137.5°	58.0	58.3	55.6	55.9	53.5	49.8	48.3	43.2	39.3	34.1	29.3
140°	48.0	47.4	45.9	45.9	43.8	40.8	40.2	35.9	32.6	28.1	24.5
142.5°	39.3	39.3	37.8	38.4	36.2	33.5	32.9	29.6	26.6	23.6	20.2
145°	32.0	32.0	31.1	31.1	29.6	27.2	26.9	24.2	22.1	19.0	16.9
147.5°	26.3	26.3	25.4	25.7	24.2	22.7	22.1	19.6	17.8	15.7	13.9
150°	22.1	21.4	20.8	20.8	19.6	18.1	18.1	16.0	14.8	13.0	11.2
152.5°	17.8	17.5	17.2	17.2	16.0	15.1	14.5	13.3	12.1	10.3	8.8
155°	14.2	14.2	13.9	13.6	13.0	11.8	11.5	10.3	9.1	7.9	6.3
157.5°	11.2	11.2	10.9	10.9	10.0	9.1	9.1	7.9	6.6	5.4	4.5
160°	8.8	8.5	8.2	8.2	7.6	6.6	6.3	5.4	4.5	3.6	2.7
162.5°	6.3	6.0	6.0	5.7	5.1	4.5	4.2	3.3	2.7	2.1	1.8
165°	3.6	3.6	3.6	3.3	3.0	2.4	2.4	1.8	1.2	1.2	1.5
167.5°	1.5	1.5	1.5	1.2	0.9	0.9	1.2	1.2	1.2	1.2	1.5
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1636.6	1636.6	1636.6	1636.6	1636.6	1636.6	1636.6	1636.6	1636.6	1636.6	1636.6
2.5°	1599.2	1598.3	1569.9	1554.2	1559.3	1567.8	1572.0	1582.6	1607.3	1637.2	1638.4
5°	1680.7	1666.8	1619.1	1580.1	1553.6	1532.7	1534.5	1552.0	1596.2	1643.0	1611.3
7.5°	1648.7	1712.1	1682.2	1610.0	1584.4	1560.2	1544.5	1552.4	1614.9	1653.5	1561.1
10°	1558.4	1563.5	1592.8	1650.8	1639.3	1605.2	1563.2	1540.6	1623.6	1633.3	1531.2
12.5°	1532.7	1533.6	1502.2	1556.3	1687.7	1610.3	1552.0	1497.4	1601.9	1557.2	1454.8
15°	1558.1	1535.1	1483.5	1492.5	1579.2	1636.3	1542.1	1475.9	1589.2	1509.2	1390.4
17.5°	1456.9	1517.0	1506.7	1468.1	1487.4	1623.0	1530.3	1456.9	1574.7	1453.6	1364.8
20°	1413.7	1421.3	1481.1	1463.8	1436.1	1540.9	1533.9	1426.7	1538.2	1387.1	1359.3
22.5°	1500.1	1403.4	1376.2	1484.1	1402.2	1459.6	1535.7	1387.1	1487.1	1335.8	1343.9
25°	1354.5	1459.9	1334.3	1369.3	1428.5	1396.2	1513.7	1352.4	1434.8	1296.8	1262.4
27.5°	1386.2	1325.5	1404.6	1278.7	1427.3	1335.8	1472.9	1317.6	1374.4	1271.1	1180.2
30°	1443.0	1318.2	1344.5	1288.9	1342.7	1316.1	1419.7	1277.8	1300.1	1230.3	1113.7
32.5°	1372.9	1394.1	1262.1	1315.2	1249.7	1304.7	1358.7	1240.9	1241.2	1174.5	1064.2
35°	1441.8	1339.1	1308.9	1275.0	1217.7	1271.4	1321.9	1218.3	1193.8	1129.4	1027.3
37.5°	1431.8	1358.1	1338.2	1221.6	1222.2	1241.8	1274.1	1185.0	1156.9	1074.5	970.3
40°	1436.1	1362.0	1293.2	1217.1	1195.9	1186.5	1222.2	1136.7	1100.8	1016.2	898.7
42.5°	1398.0	1353.0	1274.7	1205.3	1157.2	1131.6	1155.7	1077.5	1035.2	941.0	812.6
45°	1350.3	1305.9	1245.1	1155.7	1104.1	1061.8	1074.8	1005.3	952.4	850.3	722.0
46°	1333.7	1275.4	1228.8	1137.0	1082.3	1037.3	1041.5	973.3	916.5	815.0	684.5
47.5°	1299.5	1236.1	1192.0	1102.6	1045.5	1003.8	1005.0	927.1	872.1	759.7	637.1
50°	1277.2	1185.9	1121.3	1052.7	980.2	936.1	930.4	847.9	785.1	671.5	553.7
52.5°	1252.1	1143.6	1079.3	997.1	913.5	866.6	859.1	783.3	717.4	602.6	480.6
55°	1226.4	1121.0	1012.8	935.2	857.9	809.0	793.5	719.5	651.9	528.0	411.1
57.5°	1209.2	1076.9	969.4	884.5	804.1	750.0	741.6	670.0	590.2	467.6	349.2
60°	1183.2	1044.6	924.6	827.1	748.8	686.3	671.5	597.8	509.3	374.3	286.4
62.5°	1132.5	1006.2	885.1	767.6	686.0	631.9	612.0	533.5	428.3	309.6	236.2
65°	1095.0	976.0	840.4	710.2	623.2	576.1	559.7	480.3	361.6	248.0	200.6
67.5°	1040.3	913.2	810.5	668.2	565.8	519.6	497.5	413.8	296.0	200.0	174.0
70°	1004.7	867.9	738.0	623.8	510.5	458.2	424.4	336.8	227.8	167.3	151.3
72.5°	886.3	790.2	673.6	561.6	458.5	393.3	352.5	264.0	171.9	137.4	130.8
75°	825.6	728.6	617.1	512.9	413.8	335.0	284.6	197.9	133.5	113.6	110.6
77.5°	764.5	662.7	561.6	462.2	359.8	282.4	222.6	148.3	102.7	93.0	88.2
80°	714.7	604.7	495.1	403.9	315.4	230.8	173.1	109.4	78.2	73.7	68.6
82.5°	618.0	532.9	436.8	344.7	263.1	189.4	132.3	82.2	60.1	56.5	51.4
85°	553.1	461.3	368.2	292.4	215.1	151.3	101.5	61.3	44.7	42.0	36.9
87.5°	483.0	400.9	316.3	239.8	179.4	121.1	78.5	46.5	32.9	30.8	27.2
90°	419.3	346.5	274.6	202.1	145.9	101.2	61.3	34.7	25.4	23.3	21.4
92.5°	369.7	303.3	236.8	171.6	125.4	83.1	49.8	27.5	20.8	18.7	17.2
95°	318.7	269.1	206.9	149.2	106.3	69.2	40.8	22.7	17.8	16.0	14.8
97.5°	271.3	227.2	177.0	126.0	88.5	56.5	34.1	19.9	16.3	15.1	13.0
100°	228.4	187.0	145.0	105.4	72.8	47.1	29.0	18.4	16.0	14.5	12.1
102.5°	191.2	156.8	119.0	84.3	60.1	39.6	25.4	17.2	16.0	13.9	10.9
105°	168.0	133.8	100.9	69.8	50.1	33.8	22.7	16.6	16.0	13.6	10.0
107.5°	145.6	117.5	87.0	60.4	43.8	29.9	20.8	16.0	15.4	13.0	9.1



REPORT NUMBER: P303578
 CATALOG NUMBER: WPMLED10-C

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	127.5	101.8	76.4	54.1	39.6	26.9	19.3	15.7	15.1	12.4	8.5
112.5°	113.6	88.8	67.1	48.6	35.6	23.9	18.1	15.1	14.2	11.5	7.6
115°	98.8	78.2	59.2	43.5	32.0	20.8	16.9	14.2	13.3	10.6	6.9
117.5°	87.3	69.2	53.2	38.7	27.5	18.4	15.4	13.3	12.1	9.7	6.3
120°	76.1	59.2	45.9	33.2	22.7	16.3	13.6	11.8	10.6	8.5	5.4
122.5°	65.5	52.0	40.8	29.0	19.3	14.5	11.8	10.6	9.7	7.6	4.8
125°	58.0	45.9	35.9	24.2	16.9	12.7	10.3	9.4	8.5	6.6	4.2
127.5°	48.9	39.3	29.9	20.5	14.2	10.9	8.8	8.2	7.2	5.7	3.6
130°	41.7	32.9	24.8	17.2	12.7	9.4	7.6	6.6	6.0	4.8	3.0
132.5°	35.9	28.1	21.1	14.8	10.9	7.6	6.0	5.4	4.8	3.9	2.4
135°	29.6	23.9	18.1	12.7	9.1	6.0	4.8	4.5	3.9	3.0	2.1
137.5°	24.8	19.6	15.1	10.9	7.6	4.8	3.9	3.6	3.0	2.4	1.8
140°	20.5	16.0	12.7	8.8	5.7	3.3	3.3	2.7	2.4	2.1	1.5
142.5°	17.2	13.3	10.6	7.2	4.5	2.7	2.7	2.1	2.1	1.8	1.5
145°	14.2	11.2	8.8	5.4	3.0	2.1	2.4	2.1	1.8	1.8	1.5
147.5°	11.5	8.8	6.6	3.9	2.1	2.1	2.1	1.8	1.8	1.5	1.2
150°	9.1	6.6	4.8	2.7	1.8	1.8	1.8	1.5	1.5	1.5	1.2
152.5°	6.9	4.8	3.0	1.8	1.8	1.8	1.8	1.5	1.5	1.2	0.9
155°	4.8	3.3	2.1	1.5	1.5	1.5	1.5	1.5	1.2	1.2	0.9
157.5°	3.3	2.1	1.5	1.5	1.5	1.5	1.5	1.2	1.2	1.2	0.9
160°	2.1	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.2	1.2	0.9
162.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.2	1.2	0.9
165°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.2	1.2
167.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.2	0.9
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P303578
 CATALOG NUMBER: WPMLED10-C

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1636.6	1636.6	1636.6	1636.6	1636.6	1636.6	1636.6	1636.6	1636.6	1636.6	1636.6
2.5°	1694.0	1649.3	1630.3	1602.8	1651.1	1585.0	1576.5	1574.7	1559.3	1545.7	1515.2
5°	1612.8	1547.5	1525.8	1486.5	1521.5	1445.1	1423.7	1419.7	1434.8	1469.6	1492.5
7.5°	1557.2	1472.0	1414.6	1401.3	1501.3	1478.6	1422.8	1392.0	1378.7	1355.7	1301.3
10°	1498.0	1413.4	1433.9	1425.5	1424.6	1323.7	1266.0	1314.9	1354.8	1349.4	1325.5
12.5°	1436.1	1464.1	1395.9	1284.4	1298.3	1333.0	1297.7	1272.0	1179.6	1145.5	1104.7
15°	1432.1	1395.9	1275.7	1263.3	1324.9	1220.7	1119.2	1124.9	1146.7	1137.0	1061.5
17.5°	1422.8	1275.4	1261.2	1237.6	1164.2	1098.6	1115.3	1036.7	971.2	941.9	907.1
20°	1312.8	1232.5	1222.8	1099.8	1114.0	1045.8	952.7	917.4	859.7	777.8	741.0
22.5°	1224.6	1221.9	1101.1	1047.6	1012.5	917.1	851.2	748.5	724.7	686.3	641.0
25°	1186.5	1121.0	1032.8	962.4	899.0	798.1	695.1	689.6	623.8	577.0	581.2
27.5°	1148.5	1034.9	971.2	852.8	789.6	667.3	653.7	574.8	570.3	523.2	470.3
30°	1056.6	970.0	866.6	763.9	665.5	635.9	546.4	544.9	470.3	456.7	409.9
32.5°	961.5	904.4	771.2	655.5	635.3	538.3	514.1	446.5	416.3	382.4	350.7
35°	896.6	810.5	693.6	591.8	550.7	501.7	433.2	392.4	359.2	327.1	312.6
37.5°	844.0	736.2	614.4	556.1	490.0	429.2	379.1	341.9	306.3	290.6	261.6
40°	771.2	669.1	566.7	497.5	445.6	380.9	332.0	294.5	267.0	244.4	214.5
42.5°	691.7	592.4	507.8	435.9	376.1	322.9	285.2	251.9	222.9	193.9	175.2
45°	601.7	522.0	458.2	382.4	325.3	285.5	249.2	210.2	175.8	160.1	138.3
46°	569.7	493.3	427.4	351.0	305.4	270.1	230.2	191.8	164.0	144.7	126.6
47.5°	519.6	448.0	393.0	312.6	283.3	248.3	205.7	168.3	143.5	125.4	110.9
50°	448.9	390.3	327.1	276.7	245.0	211.1	167.7	137.4	116.0	104.2	93.3
52.5°	382.1	331.7	279.7	236.2	208.4	168.0	137.1	112.4	97.3	88.5	81.6
55°	325.0	281.8	239.5	205.1	168.9	138.3	113.3	93.6	83.4	77.0	71.9
57.5°	278.2	244.1	209.9	176.4	138.3	114.2	93.3	79.4	71.0	66.8	63.1
60°	233.8	213.6	182.8	142.0	112.4	93.6	76.1	67.1	61.3	57.1	55.3
62.5°	197.3	185.8	154.1	116.0	91.8	76.1	61.6	55.6	51.4	48.0	47.4
65°	171.3	159.8	126.0	94.5	74.6	60.4	49.8	45.3	42.0	40.2	39.0
67.5°	150.7	133.8	103.0	76.7	59.2	46.5	39.3	35.0	32.3	31.4	30.2
70°	131.7	111.2	84.9	61.0	45.9	35.9	30.2	26.3	24.2	22.1	21.7
72.5°	111.5	90.3	67.7	49.2	35.6	27.8	21.4	17.8	15.7	13.9	13.3
75°	90.6	71.6	52.3	37.8	26.3	19.6	13.3	9.4	6.3	1.5	0.3
77.5°	71.0	55.9	39.3	27.5	17.5	11.2	5.1	0.6	0.0	0.0	0.0
80°	53.5	41.4	29.3	19.0	10.6	4.8	1.2	0.0	0.0	0.0	0.0
82.5°	40.2	30.2	20.5	13.3	7.2	3.3	0.6	0.0	0.0	0.0	0.0
85°	29.6	22.4	15.1	9.7	5.1	2.1	0.3	0.0	0.0	0.0	0.0
87.5°	21.4	16.6	11.5	7.2	3.6	1.5	0.3	0.0	0.0	0.0	0.0
90°	16.9	13.3	9.1	5.7	3.0	1.2	0.3	0.0	0.0	0.0	0.0
92.5°	14.2	10.9	7.6	5.1	2.4	1.2	0.3	0.0	0.0	0.0	0.0
95°	12.4	9.4	6.3	3.9	2.1	1.2	0.3	0.0	0.0	0.0	0.0
97.5°	10.3	7.9	5.4	3.3	1.5	0.9	0.3	0.0	0.0	0.0	0.0
100°	9.1	6.6	4.5	2.7	1.2	0.6	0.3	0.0	0.0	0.0	0.0
102.5°	8.2	6.0	3.9	2.1	0.9	0.6	0.0	0.0	0.0	0.0	0.0
105°	6.9	5.1	3.3	1.8	0.9	0.6	0.0	0.0	0.0	0.0	0.0
107.5°	6.3	4.5	2.7	1.5	0.9	0.6	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P303578
 CATALOG NUMBER: WPMLED10-C

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	5.7	3.9	2.4	1.2	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0°
112.5°	5.1	3.3	1.8	1.2	0.6	0.3	0.0	0.0	0.0	0.0	0.0	2.5°
115°	4.5	2.7	1.5	0.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	5°
117.5°	4.2	2.4	1.5	0.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	7.5°
120°	3.6	2.1	1.2	0.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	10°
122.5°	3.0	1.8	1.2	0.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	12.5°
125°	2.7	1.5	1.2	0.9	0.3	0.3	0.0	0.0	0.0	0.0	0.0	15°
127.5°	2.1	1.5	1.2	0.9	0.3	0.3	0.0	0.0	0.0	0.0	0.0	17.5°
130°	1.8	1.5	0.9	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	20°
132.5°	1.8	1.2	0.9	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	22.5°
135°	1.5	1.2	0.9	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	25°
137.5°	1.5	1.2	0.9	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	27.5°
140°	1.5	1.2	0.9	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	30°
142.5°	1.2	0.9	0.9	0.6	0.3	0.3	0.3	0.0	0.0	0.0	0.0	32.5°
145°	1.2	0.9	0.6	0.6	0.3	0.3	0.3	0.0	0.0	0.0	0.0	35°
147.5°	1.2	0.9	0.6	0.6	0.3	0.3	0.3	0.0	0.0	0.0	0.0	37.5°
150°	0.9	0.9	0.6	0.6	0.3	0.3	0.3	0.0	0.0	0.0	0.0	40°
152.5°	0.9	0.6	0.6	0.6	0.3	0.3	0.3	0.0	0.0	0.0	0.0	42.5°
155°	0.9	0.9	0.6	0.6	0.3	0.3	0.3	0.0	0.0	0.0	0.0	45°
157.5°	0.9	0.6	0.6	0.6	0.3	0.3	0.3	0.0	0.0	0.0	0.0	46°
160°	0.9	0.9	0.6	0.6	0.3	0.3	0.3	0.0	0.0	0.0	0.0	47.5°
162.5°	0.9	0.9	0.9	0.6	0.3	0.3	0.3	0.3	0.0	0.0	0.0	50°
165°	1.2	0.9	0.9	0.6	0.6	0.3	0.3	0.3	0.3	0.0	0.0	52.5°
167.5°	0.9	0.9	0.9	0.6	0.3	0.3	0.3	0.3	0.0	0.0	0.0	55°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P303578
NUMBER: WPMLED10-C

REPORT NUMBER: P
CATALOG NUMBER:

DISTRIBUTION (continued):

160°	165°	170°	175°	180°
1636.6	1636.6	1636.6	1636.6	1636.6
1518.5	1527.0	1553.3	1499.8	1520.9
1507.0	1493.7	1506.4	1467.2	1479.6
1304.7	1314.3	1314.6	1279.0	1296.8
1290.5	1285.0	1267.2	1221.9	1218.0
1148.2	1155.7	1189.0	1150.3	1153.3
993.2	976.0	975.4	929.2	934.6
889.3	857.3	828.6	770.3	777.8
734.0	704.7	684.2	655.2	663.0
599.3	588.4	593.9	585.7	596.0
554.0	528.0	508.1	477.0	483.3
453.4	461.3	434.7	410.5	409.9
388.2	377.3	363.7	340.4	344.1
330.8	330.8	320.8	305.4	304.8
294.8	280.6	264.9	253.1	257.1
246.5	230.8	218.7	209.9	213.0
201.8	187.9	181.5	173.7	176.4
166.7	156.2	142.6	134.1	134.7
127.8	120.2	110.9	104.5	107.5
117.8	108.1	101.8	96.4	99.4
103.9	97.9	91.8	87.6	89.4
89.7	86.4	81.9	79.4	81.0
79.7	76.7	74.6	73.4	75.5
71.0	70.1	70.7	70.7	73.4
64.0	64.9	65.9	64.6	66.8
57.4	57.4	55.9	55.0	56.5
48.6	48.3	48.9	49.8	51.7
40.2	42.0	42.3	42.0	42.9
32.3	33.2	32.6	32.3	32.9
23.9	23.0	23.3	23.3	23.6
13.0	11.8	10.3	7.9	6.9
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	0.0	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	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	0.0
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	0.0	0.0	0.0	0.0

CANDELA DISTRIBUTION:

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



'303578
WPMLED10-C

TION (continued):

165°	170°	175°	180°
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
0.0	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	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	0.0	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	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	0.0	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	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	0.0
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
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
0.0	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	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	0.0	0.0	0.0

(END OF REPORT)