

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: P303584

Luminaire Tested: **WPSLED10-C**

Issue Date: 6/24/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P303584  
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: WPSLED10-C  
Description: SMALL LED WALL PACK - 40W, 5000K  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4805.3 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 0.19' x H: 0.49')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U3 - G3

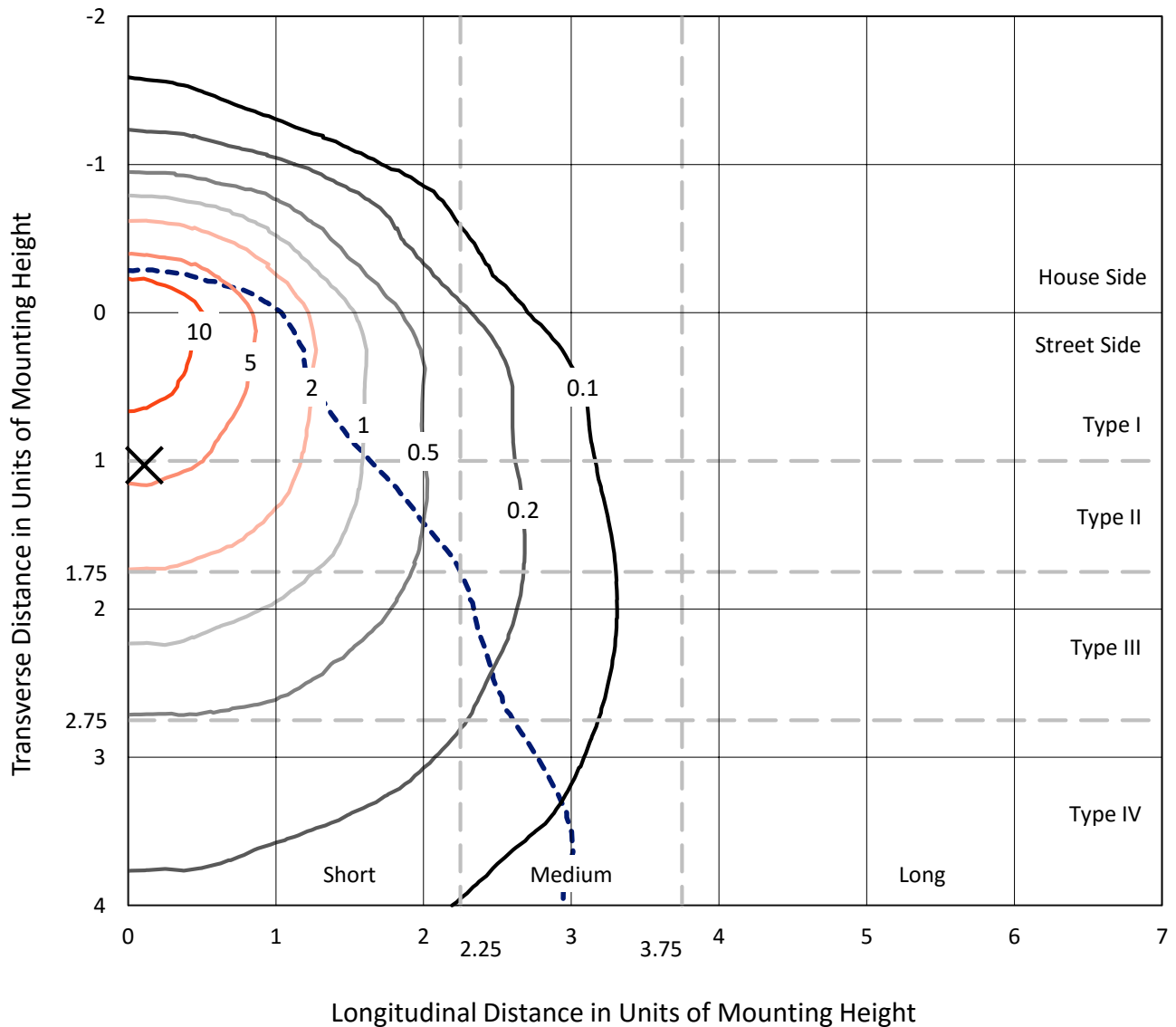
Input Watts (W): 39.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

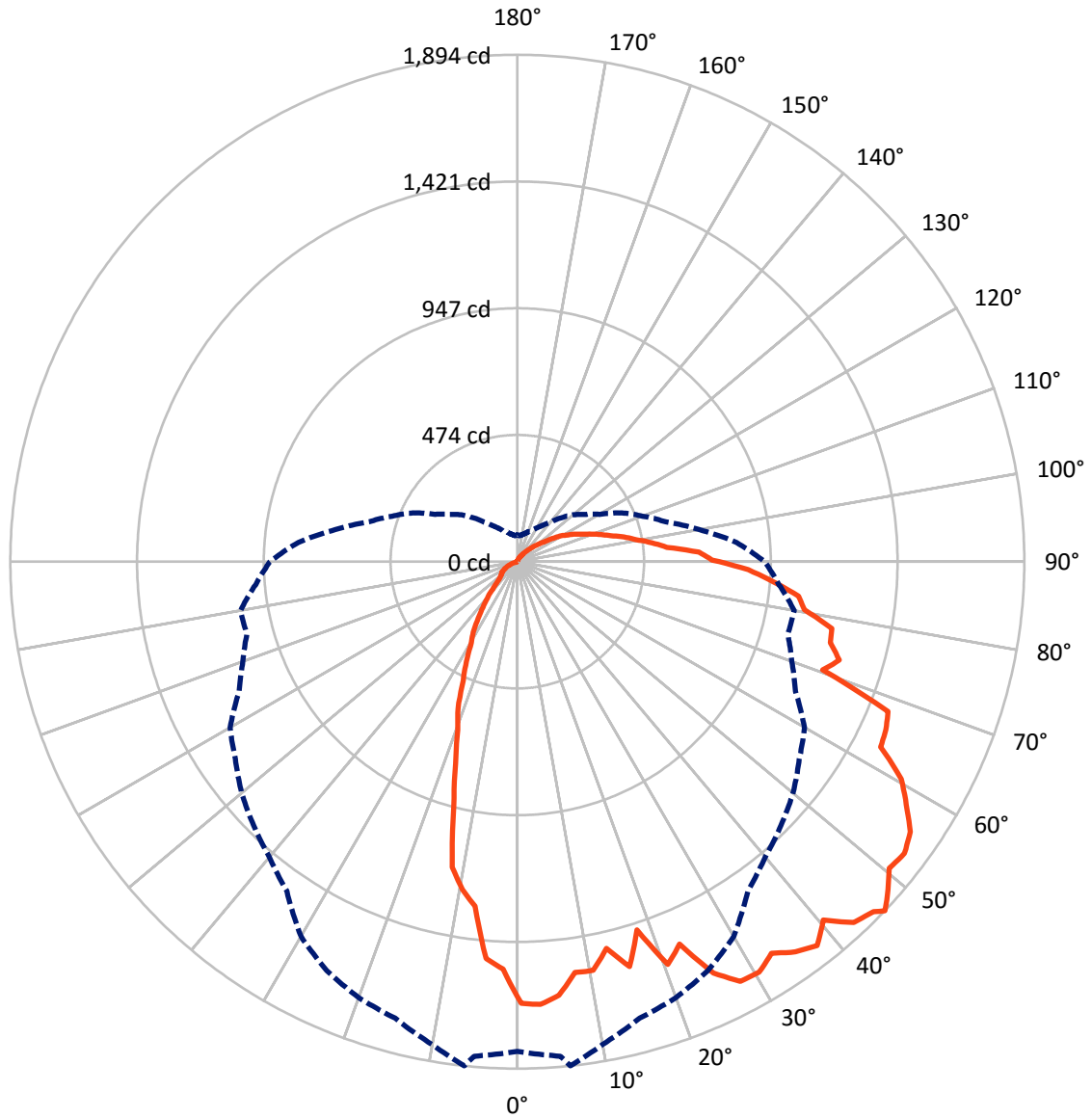
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.5 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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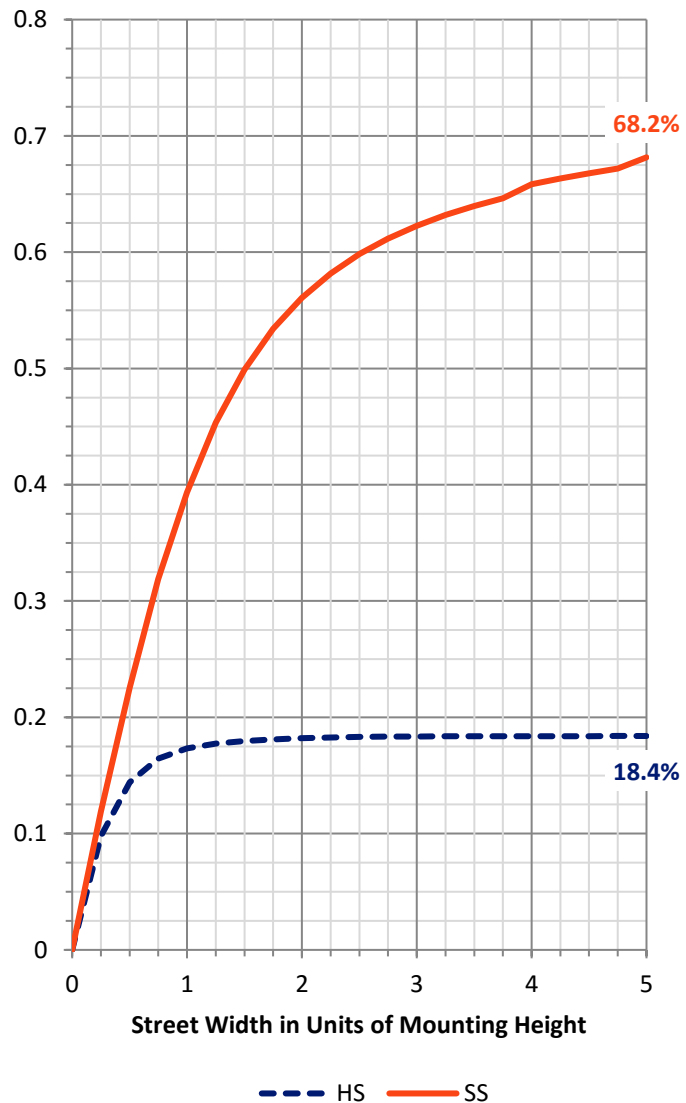
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	892.8	6.0	898.7
	% Fixture	18.6	0.1	18.7
<b>Street Side</b>	Lumens	3498.0	408.5	3906.5
	% Fixture	72.8	8.5	81.3
<b>Total</b>	Lumens	4390.8	414.5	4805.3
	% Fixture	91.4	8.6	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.8	3.1
10°-20°	382.9	8.0
20°-30°	535.6	11.1
30°-40°	638.3	13.3
40°-50°	678.1	14.1
50°-60°	659.6	13.7
60°-70°	579.8	12.1
70°-80°	450.4	9.4
80°-90°	319.3	6.6
90°-100°	187.2	3.9
100°-110°	108.3	2.3
110°-120°	63.6	1.3
120°-130°	33.0	0.7
130°-140°	14.6	0.3
140°-150°	5.6	0.1
150°-160°	1.8	0.0
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-90°	4390.8	91.4
0°-180°	4805.3	100.0

**Coefficient of Utilization**



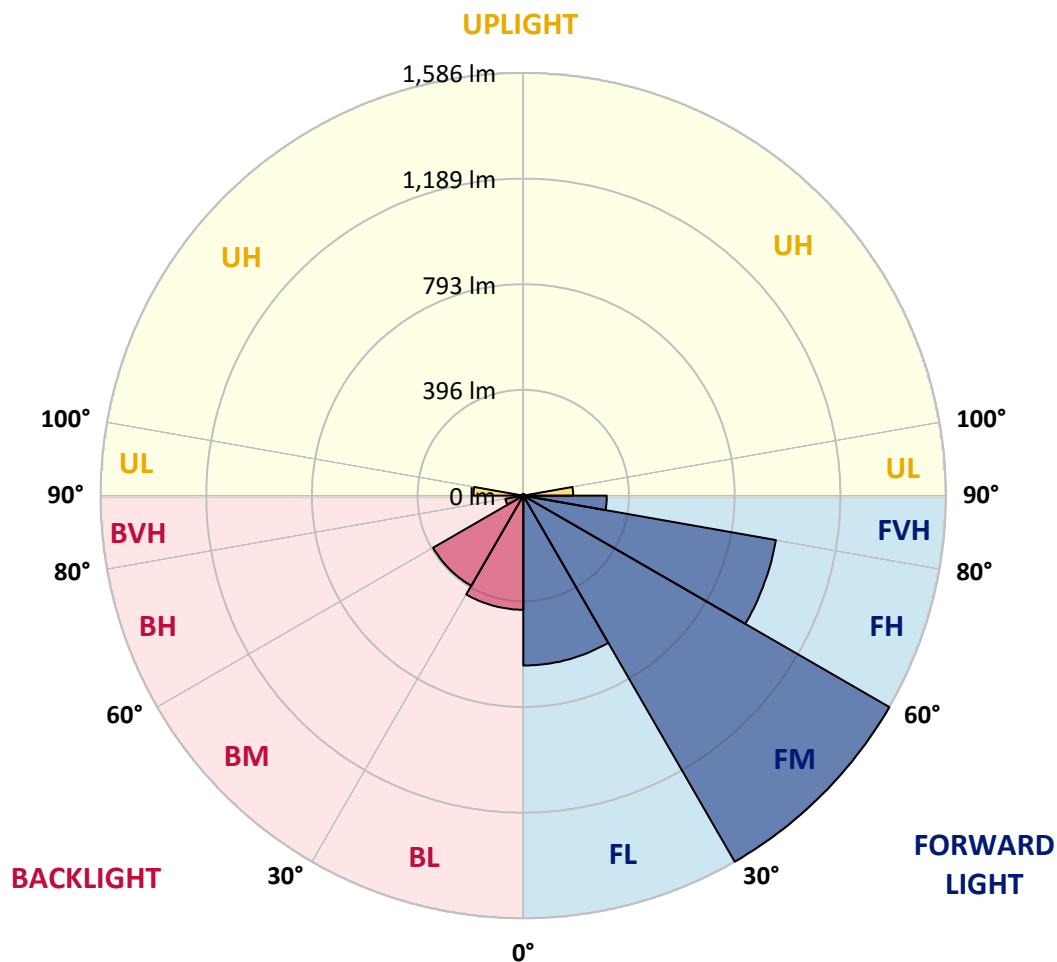
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	637.3	13.3			
FM	(30°-60°)	1585.5	33.0			
FH	(60°-80°)	962.1	20.0			G1/1800
FVH	(80°-90°)	313.2	6.5			G3/500
BL	(0°-30°)	428.1	8.9	B1/500		
BM	(30°-60°)	390.5	8.1	B1/1000		
BH	(60°-80°)	68.1	1.4	B0/110		G0/110
BVH	(80°-90°)	6.1	0.1			G0/10
UL	(90°-100°)	187.2	3.9		U3/500	
UH	(100°-180°)	6.0	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°	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3
2.5°	1700.2	1678.0	1656.1	1642.3	1605.5	1569.9	1601.5	1593.0	1607.9	1597.0	1652.7
5°	1684.4	1655.7	1627.1	1617.1	1614.9	1635.3	1692.6	1677.4	1684.7	1676.5	1739.2
7.5°	1611.6	1574.7	1550.1	1554.6	1568.0	1525.1	1545.5	1568.0	1562.2	1521.1	1618.3
10°	1600.6	1570.2	1553.1	1585.1	1550.4	1537.9	1590.6	1532.4	1556.1	1527.2	1558.9
12.5°	1515.3	1488.2	1482.4	1498.3	1454.4	1471.8	1482.7	1507.4	1507.1	1571.1	1575.0
15°	1578.4	1553.7	1569.9	1558.9	1552.2	1515.3	1522.0	1450.5	1445.9	1467.5	1520.8
17.5°	1461.4	1445.0	1445.9	1408.1	1387.4	1387.1	1438.0	1491.3	1553.4	1459.6	1459.0
20°	1591.5	1598.5	1606.1	1589.0	1552.2	1499.5	1481.2	1405.7	1387.1	1450.8	1563.8
22.5°	1555.8	1558.6	1552.2	1523.6	1468.4	1462.6	1521.4	1555.8	1481.5	1367.0	1420.6
25°	1686.2	1690.2	1703.0	1687.7	1639.6	1593.6	1542.7	1465.7	1465.4	1516.2	1423.6
27.5°	1770.3	1753.2	1775.4	1710.9	1636.3	1594.8	1624.1	1614.6	1494.9	1419.1	1503.1
30°	1751.7	1756.0	1780.3	1757.5	1731.9	1711.2	1688.3	1600.3	1563.5	1522.3	1419.7
32.5°	1710.6	1717.9	1744.1	1707.5	1678.9	1654.2	1674.0	1662.8	1591.2	1519.3	1509.8
35°	1756.6	1762.0	1790.7	1743.2	1688.0	1646.0	1647.2	1622.8	1564.7	1549.1	1493.4
37.5°	1759.9	1773.9	1819.6	1778.8	1735.9	1698.7	1663.7	1605.2	1546.4	1508.6	1505.3
40°	1703.9	1720.0	1760.8	1707.2	1656.1	1650.3	1661.5	1620.1	1526.3	1492.2	1458.7
42.5°	1788.5	1802.3	1842.8	1763.0	1680.4	1640.8	1633.8	1599.1	1511.1	1466.3	1427.0
45°	1811.7	1832.4	1865.9	1798.0	1742.2	1705.7	1672.8	1590.0	1500.7	1449.8	1404.5
46°	1829.4	1854.6	1894.2	1831.8	1765.7	1733.1	1685.3	1616.8	1501.9	1441.0	1393.2
47.5°	1795.9	1823.0	1861.0	1814.1	1773.0	1746.5	1724.9	1643.9	1527.5	1438.9	1370.7
50°	1741.0	1760.8	1800.7	1759.0	1712.1	1704.2	1711.8	1675.2	1554.6	1467.5	1354.2
52.5°	1749.6	1768.4	1811.4	1780.0	1733.7	1715.7	1681.6	1623.2	1532.7	1477.6	1365.2
55°	1748.9	1749.6	1781.8	1711.8	1606.7	1607.0	1636.9	1622.2	1529.0	1460.8	1344.5
57.5°	1648.1	1660.3	1713.9	1699.0	1638.4	1626.2	1626.5	1589.3	1500.1	1436.1	1325.0
60°	1604.3	1598.2	1648.7	1628.6	1567.1	1573.8	1566.2	1501.6	1429.7	1411.5	1306.7
62.5°	1479.4	1472.7	1523.9	1518.1	1494.6	1501.9	1509.5	1515.9	1431.0	1350.9	1247.9
65°	1473.9	1463.2	1513.8	1480.9	1422.7	1409.3	1409.9	1385.3	1343.8	1330.4	1213.8
67.5°	1448.0	1448.6	1493.7	1481.2	1425.8	1400.8	1376.1	1341.4	1277.1	1241.2	1158.0
70°	1178.5	1166.9	1210.4	1224.1	1257.6	1314.3	1287.5	1240.9	1208.9	1180.0	1095.6
72.5°	1232.7	1218.1	1258.0	1265.3	1288.1	1291.5	1298.5	1328.6	1186.7	1076.4	979.6
75°	1183.3	1178.2	1207.7	1179.7	1127.3	1121.8	1115.7	1109.6	1061.8	1011.8	892.8
77.5°	1183.6	1174.2	1201.3	1165.1	1107.8	1087.7	1055.1	1005.4	952.8	944.8	873.0
80°	1061.8	1068.5	1087.4	1087.1	1090.1	1119.4	1076.4	997.5	912.5	855.9	787.4
82.5°	1051.7	1044.1	1058.4	1040.5	1007.0	989.0	941.2	933.0	890.9	809.9	698.1
85°	953.4	949.4	960.1	956.1	939.4	959.2	925.3	855.6	788.3	729.2	639.3
87.5°	856.2	854.7	863.5	842.2	817.5	803.2	768.8	750.5	715.8	659.7	571.4
90°	725.8	722.5	727.1	714.0	697.2	691.4	682.3	672.2	615.3	558.3	488.0
92.5°	680.8	694.2	679.2	678.3	663.4	650.0	613.1	555.9	508.4	468.5	423.1
95°	560.1	560.1	561.1	554.7	542.2	532.4	515.7	487.3	450.8	424.0	374.9
97.5°	510.2	510.5	507.4	502.6	488.0	476.1	459.9	436.8	407.5	373.7	320.1
100°	452.0	453.5	451.4	453.8	444.4	440.7	424.0	393.5	356.7	318.9	271.4
102.5°	413.6	412.1	409.4	405.7	393.8	380.7	363.7	341.1	314.0	279.0	233.0
105°	366.7	368.6	362.5	362.5	354.2	344.8	330.2	306.1	276.3	240.6	204.1
107.5°	334.1	333.5	327.7	326.2	319.5	306.4	293.3	268.6	241.8	212.6	177.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	6°	10°	15°	20°	25°	30°	35°	40°	45°
110°	299.7	301.2	295.1	294.5	286.0	274.1	260.1	237.0	211.7	184.6	155.3
112.5°	268.0	269.0	262.6	262.3	254.9	243.7	233.0	211.7	189.8	164.8	139.8
115°	244.9	246.1	239.1	239.1	232.1	219.6	208.0	185.5	164.8	142.5	120.9
117.5°	219.0	217.8	212.3	212.6	205.3	192.5	183.4	163.6	144.1	124.6	106.0
120°	197.1	197.7	191.3	190.7	182.4	171.2	160.2	143.8	127.6	110.9	93.8
122.5°	168.1	168.1	162.0	162.0	154.7	144.1	134.9	118.5	106.3	93.2	79.8
125°	138.3	138.9	132.8	133.1	126.7	117.9	112.7	101.1	91.4	80.4	69.8
127.5°	117.9	119.1	114.2	115.1	110.3	102.6	98.4	87.4	79.5	68.5	59.4
130°	100.2	100.5	97.2	97.2	93.2	87.4	83.8	75.2	67.9	59.4	50.3
132.5°	86.2	86.2	82.5	82.8	78.9	73.4	70.7	63.0	57.0	49.6	43.3
135°	71.9	71.9	69.1	69.1	65.5	60.6	58.5	52.4	47.2	42.0	35.9
137.5°	58.5	58.8	56.0	56.3	53.9	50.3	48.7	43.6	39.6	34.4	29.5
140°	48.4	47.8	46.3	46.3	44.2	41.1	40.5	36.2	32.9	28.3	24.7
142.5°	39.6	39.6	38.1	38.7	36.6	33.8	33.2	29.8	26.8	23.8	20.4
145°	32.3	32.3	31.4	31.4	29.8	27.4	27.1	24.4	22.2	19.2	17.1
147.5°	26.5	26.5	25.6	25.9	24.4	22.8	22.2	19.8	18.0	15.8	14.0
150°	22.2	21.6	21.0	21.0	19.8	18.3	18.3	16.1	14.9	13.1	11.3
152.5°	18.0	17.7	17.4	17.4	16.1	15.2	14.6	13.4	12.2	10.4	8.8
155°	14.3	14.3	14.0	13.7	13.1	11.9	11.6	10.4	9.1	7.9	6.4
157.5°	11.3	11.3	11.0	11.0	10.1	9.1	9.1	7.9	6.7	5.5	4.6
160°	8.8	8.5	8.2	8.2	7.6	6.7	6.4	5.5	4.6	3.7	2.7
162.5°	6.4	6.1	6.1	5.8	5.2	4.6	4.3	3.4	2.7	2.1	1.8
165°	3.7	3.7	3.7	3.4	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°	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3
2.5°	1612.5	1611.6	1582.9	1567.1	1572.3	1580.8	1585.1	1595.7	1620.7	1650.9	1652.1
5°	1694.7	1680.7	1632.6	1593.3	1566.5	1545.5	1547.3	1565.0	1609.4	1656.7	1624.7
7.5°	1662.4	1726.4	1696.3	1623.5	1597.6	1573.2	1557.4	1565.3	1628.3	1667.3	1574.1
10°	1571.4	1576.6	1606.1	1664.6	1653.0	1618.6	1576.2	1553.4	1637.2	1646.9	1544.0
12.5°	1545.5	1546.4	1514.7	1569.2	1701.7	1623.8	1565.0	1509.8	1615.2	1570.2	1466.9
15°	1571.1	1547.9	1495.8	1505.0	1592.4	1650.0	1554.9	1488.2	1602.4	1521.7	1402.0
17.5°	1469.0	1529.6	1519.3	1480.3	1499.8	1636.6	1543.0	1469.0	1587.8	1465.7	1376.1
20°	1425.5	1433.1	1493.4	1476.0	1448.0	1553.7	1546.7	1438.6	1551.0	1398.7	1370.7
22.5°	1512.6	1415.1	1387.7	1496.4	1413.9	1471.8	1548.5	1398.7	1499.5	1346.9	1355.1
25°	1365.8	1472.1	1345.4	1380.7	1440.4	1407.8	1526.3	1363.6	1446.8	1307.6	1272.9
27.5°	1397.8	1336.5	1416.3	1289.3	1439.2	1346.9	1485.2	1328.6	1385.9	1281.7	1190.0
30°	1455.0	1329.2	1355.7	1299.7	1353.9	1327.1	1431.6	1288.4	1311.0	1240.6	1123.0
32.5°	1384.4	1405.7	1272.6	1326.2	1260.1	1315.5	1370.0	1251.3	1251.6	1184.2	1073.1
35°	1453.8	1350.2	1319.8	1285.7	1227.8	1282.0	1332.9	1228.4	1203.7	1138.9	1035.9
37.5°	1443.8	1369.4	1349.3	1231.8	1232.4	1252.2	1284.8	1194.9	1166.6	1083.4	978.3
40°	1448.0	1373.4	1303.9	1227.2	1205.9	1196.4	1232.4	1146.2	1109.9	1024.6	906.2
42.5°	1409.6	1364.3	1285.4	1215.3	1166.9	1141.0	1165.4	1086.5	1043.8	948.8	819.3
45°	1361.5	1316.7	1255.5	1165.4	1113.3	1070.6	1083.7	1013.7	960.4	857.4	728.0
46°	1344.8	1286.0	1239.1	1146.5	1091.3	1046.0	1050.2	981.4	924.1	821.8	690.2
47.5°	1310.3	1246.4	1201.9	1111.7	1054.2	1012.1	1013.4	934.8	879.3	766.0	642.4
50°	1287.8	1195.8	1130.6	1061.5	988.4	943.9	938.1	855.0	791.6	677.1	558.3
52.5°	1262.5	1153.2	1088.3	1005.4	921.1	873.9	866.3	789.8	723.4	607.7	484.6
55°	1236.6	1130.3	1021.3	943.0	865.0	815.7	800.2	725.5	657.3	532.4	414.5
57.5°	1219.3	1085.9	977.4	891.8	810.8	756.3	747.8	675.6	595.2	471.5	352.1
60°	1193.1	1053.3	932.3	834.0	755.1	692.0	677.1	602.8	513.5	377.4	288.8
62.5°	1141.9	1014.6	892.4	774.0	691.7	637.2	617.1	537.9	431.9	312.2	238.2
65°	1104.1	984.1	847.4	716.1	628.4	580.9	564.4	484.3	364.6	250.1	202.2
67.5°	1049.0	920.8	817.2	673.8	570.5	523.9	501.7	417.3	298.5	201.6	175.4
70°	1013.1	875.1	744.1	629.0	514.8	462.1	427.9	339.6	229.7	168.7	152.6
72.5°	893.7	796.8	679.2	566.2	462.4	396.6	355.5	266.2	173.3	138.6	131.9
75°	832.4	734.7	622.3	517.2	417.3	337.8	286.9	199.5	134.6	114.5	111.5
77.5°	770.9	668.3	566.2	466.0	362.8	284.8	224.5	149.6	103.6	93.8	88.9
80°	720.7	609.8	499.2	407.2	318.0	232.7	174.5	110.3	78.9	74.3	69.1
82.5°	623.2	537.3	440.4	347.5	265.3	191.0	133.4	82.8	60.6	57.0	51.8
85°	557.7	465.1	371.3	294.8	216.9	152.6	102.3	61.8	45.1	42.3	37.2
87.5°	487.0	404.2	318.9	241.8	180.9	122.1	79.2	46.9	33.2	31.1	27.4
90°	422.8	349.4	276.9	203.8	147.1	102.0	61.8	35.0	25.6	23.5	21.6
92.5°	372.8	305.8	238.8	173.0	126.4	83.8	50.3	27.7	21.0	18.9	17.4
95°	321.3	271.4	208.6	150.5	107.2	69.8	41.1	22.8	18.0	16.1	14.9
97.5°	273.5	229.1	178.5	127.0	89.2	57.0	34.4	20.1	16.4	15.2	13.1
100°	230.3	188.5	146.2	106.3	73.4	47.5	29.2	18.6	16.1	14.6	12.2
102.5°	192.8	158.1	120.0	85.0	60.6	39.9	25.6	17.4	16.1	14.0	11.0
105°	169.4	134.9	101.7	70.4	50.6	34.1	22.8	16.8	16.1	13.7	10.1
107.5°	146.8	118.5	87.7	60.9	44.2	30.2	21.0	16.1	15.5	13.1	9.1



REPORT NUMBER: P303584  
 CATALOG NUMBER: WPSLED10-C

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	128.5	102.6	77.1	54.5	39.9	27.1	19.5	15.8	15.2	12.5	8.5
112.5°	114.5	89.5	67.6	49.0	35.9	24.1	18.3	15.2	14.3	11.6	7.6
115°	99.6	78.9	59.7	43.9	32.3	21.0	17.1	14.3	13.4	10.7	7.0
117.5°	88.0	69.8	53.6	39.0	27.7	18.6	15.5	13.4	12.2	9.7	6.4
120°	76.8	59.7	46.3	33.5	22.8	16.4	13.7	11.9	10.7	8.5	5.5
122.5°	66.1	52.4	41.1	29.2	19.5	14.6	11.9	10.7	9.7	7.6	4.9
125°	58.5	46.3	36.2	24.4	17.1	12.8	10.4	9.4	8.5	6.7	4.3
127.5°	49.3	39.6	30.2	20.7	14.3	11.0	8.8	8.2	7.3	5.8	3.7
130°	42.0	33.2	25.0	17.4	12.8	9.4	7.6	6.7	6.1	4.9	3.0
132.5°	36.2	28.3	21.3	14.9	11.0	7.6	6.1	5.5	4.9	4.0	2.4
135°	29.8	24.1	18.3	12.8	9.1	6.1	4.9	4.6	4.0	3.0	2.1
137.5°	25.0	19.8	15.2	11.0	7.6	4.9	4.0	3.7	3.0	2.4	1.8
140°	20.7	16.1	12.8	8.8	5.8	3.4	3.4	2.7	2.4	2.1	1.5
142.5°	17.4	13.4	10.7	7.3	4.6	2.7	2.7	2.1	2.1	1.8	1.5
145°	14.3	11.3	8.8	5.5	3.0	2.1	2.4	2.1	1.8	1.8	1.5
147.5°	11.6	8.8	6.7	4.0	2.1	2.1	2.1	1.8	1.8	1.5	1.2
150°	9.1	6.7	4.9	2.7	1.8	1.8	1.8	1.5	1.5	1.5	1.2
152.5°	7.0	4.9	3.0	1.8	1.8	1.8	1.8	1.5	1.5	1.2	0.9
155°	4.9	3.4	2.1	1.5	1.5	1.5	1.5	1.5	1.2	1.2	0.9
157.5°	3.4	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: P303584  
 CATALOG NUMBER: WPSLED10-C

**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3	1650.3
2.5°	1708.1	1663.1	1643.9	1616.1	1664.9	1598.2	1589.6	1587.8	1572.3	1558.6	1527.8
5°	1626.2	1560.4	1538.5	1498.9	1534.2	1457.2	1435.5	1431.6	1446.8	1481.8	1505.0
7.5°	1570.2	1484.3	1426.4	1413.0	1513.8	1491.0	1434.6	1403.5	1390.1	1367.0	1312.2
10°	1510.5	1425.2	1445.9	1437.4	1436.4	1334.7	1276.5	1325.9	1366.1	1360.6	1336.5
12.5°	1448.0	1476.3	1407.5	1295.1	1309.1	1344.2	1308.5	1282.6	1189.4	1155.0	1113.9
15°	1444.1	1407.5	1286.3	1273.8	1335.9	1230.8	1128.5	1134.3	1156.2	1146.5	1070.3
17.5°	1434.6	1286.0	1271.7	1247.9	1173.9	1107.8	1124.5	1045.3	979.3	949.7	914.7
20°	1323.7	1242.7	1233.0	1109.0	1123.3	1054.5	960.7	925.0	866.9	784.3	747.2
22.5°	1234.8	1232.1	1110.2	1056.3	1021.0	924.7	858.3	754.8	730.7	692.0	646.3
25°	1196.4	1130.3	1041.4	970.4	906.5	804.7	700.9	695.4	629.0	581.8	586.0
27.5°	1158.0	1043.5	979.3	859.9	796.2	672.8	659.1	579.6	575.1	527.5	474.2
30°	1065.5	978.0	873.9	770.3	671.0	641.2	551.0	549.5	474.2	460.5	413.3
32.5°	969.5	911.9	777.6	661.0	640.6	542.8	518.4	450.2	419.7	385.6	353.6
35°	904.0	817.2	699.3	596.7	555.3	505.9	436.8	395.7	362.2	329.9	315.2
37.5°	851.0	742.3	619.5	560.7	494.0	432.8	382.3	344.8	308.9	293.0	263.8
40°	777.6	674.7	571.4	501.7	449.3	384.1	334.7	297.0	269.3	246.4	216.3
42.5°	697.5	597.3	512.0	439.5	379.2	325.6	287.5	254.0	224.8	195.5	176.7
45°	606.7	526.3	462.1	385.6	328.0	287.8	251.3	212.0	177.3	161.4	139.5
46°	574.5	497.4	431.0	353.9	307.9	272.3	232.1	193.4	165.4	145.9	127.6
47.5°	523.9	451.7	396.3	315.2	285.7	250.4	207.4	169.7	144.7	126.4	111.8
50°	452.6	393.5	329.9	279.0	247.0	212.9	169.0	138.6	117.0	105.1	94.1
52.5°	385.3	334.4	282.0	238.2	210.2	169.4	138.3	113.3	98.1	89.2	82.2
55°	327.7	284.2	241.5	206.8	170.3	139.5	114.2	94.4	84.1	77.7	72.5
57.5°	280.5	246.1	211.7	177.9	139.5	115.1	94.1	80.1	71.6	67.3	63.7
60°	235.8	215.3	184.3	143.2	113.3	94.4	76.8	67.6	61.8	57.6	55.7
62.5°	198.9	187.3	155.3	117.0	92.6	76.8	62.1	56.0	51.8	48.4	47.8
65°	172.7	161.1	127.0	95.3	75.2	60.9	50.3	45.7	42.3	40.5	39.3
67.5°	152.0	134.9	103.9	77.4	59.7	46.9	39.6	35.3	32.6	31.7	30.5
70°	132.8	112.1	85.6	61.5	46.3	36.2	30.5	26.5	24.4	22.2	21.9
72.5°	112.4	91.1	68.2	49.6	35.9	28.0	21.6	18.0	15.8	14.0	13.4
75°	91.4	72.2	52.7	38.1	26.5	19.8	13.4	9.4	6.4	1.5	0.3
77.5°	71.6	56.3	39.6	27.7	17.7	11.3	5.2	0.6	0.0	0.0	0.0
80°	53.9	41.7	29.5	19.2	10.7	4.9	1.2	0.0	0.0	0.0	0.0
82.5°	40.5	30.5	20.7	13.4	7.3	3.4	0.6	0.0	0.0	0.0	0.0
85°	29.8	22.5	15.2	9.7	5.2	2.1	0.3	0.0	0.0	0.0	0.0
87.5°	21.6	16.8	11.6	7.3	3.7	1.5	0.3	0.0	0.0	0.0	0.0
90°	17.1	13.4	9.1	5.8	3.0	1.2	0.3	0.0	0.0	0.0	0.0
92.5°	14.3	11.0	7.6	5.2	2.4	1.2	0.3	0.0	0.0	0.0	0.0
95°	12.5	9.4	6.4	4.0	2.1	1.2	0.3	0.0	0.0	0.0	0.0
97.5°	10.4	7.9	5.5	3.4	1.5	0.9	0.3	0.0	0.0	0.0	0.0
100°	9.1	6.7	4.6	2.7	1.2	0.6	0.3	0.0	0.0	0.0	0.0
102.5°	8.2	6.1	4.0	2.1	0.9	0.6	0.0	0.0	0.0	0.0	0.0
105°	7.0	5.2	3.4	1.8	0.9	0.6	0.0	0.0	0.0	0.0	0.0
107.5°	6.4	4.6	2.7	1.5	0.9	0.6	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P303584  
 CATALOG NUMBER: WPSLED10-C

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	5.8	4.0	2.4	1.2	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0°
112.5°	5.2	3.4	1.8	1.2	0.6	0.3	0.0	0.0	0.0	0.0	0.0	2.5°
115°	4.6	2.7	1.5	0.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	5°
117.5°	4.3	2.4	1.5	0.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	7.5°
120°	3.7	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: P303584  
 NUMBER: WPSLED10-C

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

160°	165°	170°	175°	180°
1650.3	1650.3	1650.3	1650.3	1650.3
1531.2	1539.7	1566.2	1512.3	1533.6
1519.6	1506.2	1519.0	1479.4	1491.9
1315.5	1325.3	1325.6	1289.6	1307.6
1301.2	1295.7	1277.8	1232.1	1228.1
1157.7	1165.4	1198.9	1159.9	1162.9
1001.5	984.1	983.5	936.9	942.4
896.7	864.4	835.5	776.7	784.3
740.2	710.6	689.9	660.7	668.6
604.3	593.3	598.8	590.6	601.0
558.6	532.4	512.3	480.9	487.3
457.2	465.1	438.3	413.9	413.3
391.4	380.4	366.7	343.3	346.9
333.5	333.5	323.5	307.9	307.3
297.3	283.0	267.1	255.2	259.2
248.5	232.7	220.5	211.7	214.7
203.5	189.5	183.1	175.1	177.9
168.1	157.5	143.8	135.2	135.8
128.8	121.2	111.8	105.4	108.4
118.8	109.0	102.6	97.2	100.2
104.8	98.7	92.6	88.3	90.2
90.5	87.1	82.5	80.1	81.6
80.4	77.4	75.2	74.0	76.1
71.6	70.7	71.3	71.3	74.0
64.6	65.5	66.4	65.2	67.3
57.9	57.9	56.3	55.4	57.0
49.0	48.7	49.3	50.3	52.1
40.5	42.3	42.6	42.3	43.3
32.6	33.5	32.9	32.6	33.2
24.1	23.1	23.5	23.5	23.8
13.1	11.9	10.4	7.9	7.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	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



'303584  
 WPSLED10-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

(END OF REPORT)