

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: McGRAW-EDISON

Report Number: P197859

Luminaire Tested: **TT-C4-LED-E1-WQ-CG-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115498)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C4-LED-E1-WQ-CG-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6489.8 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 58
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

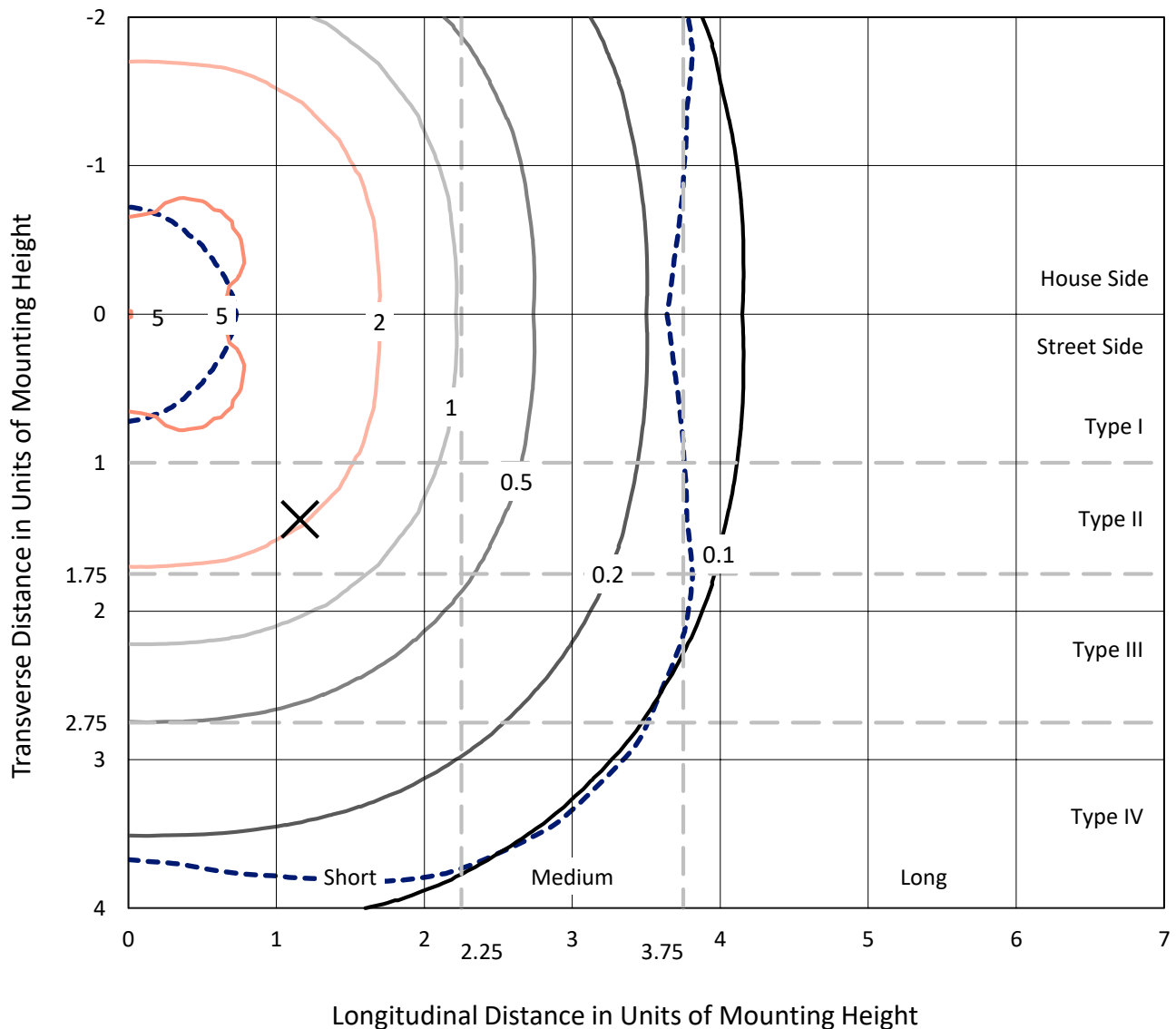


REPORT NUMBER: P197859

CATALOG NUMBER: TT-C4-LED-E1-WQ-CG-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

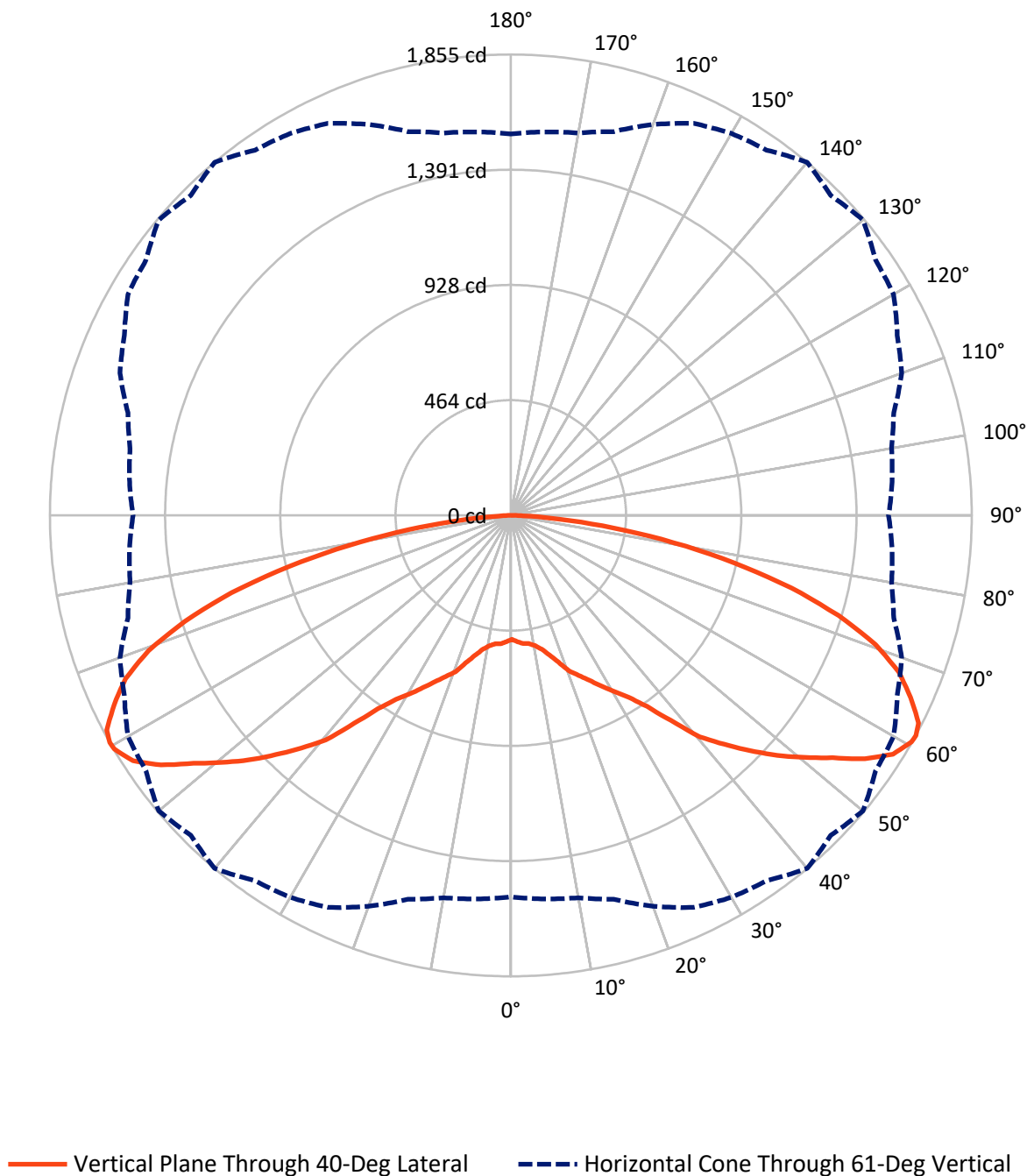


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
Type V - Short - Semi-Cutoff

REPORT NUMBER: P197859

CATALOG NUMBER: TT-C4-LED-E1-WQ-CG-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P197859

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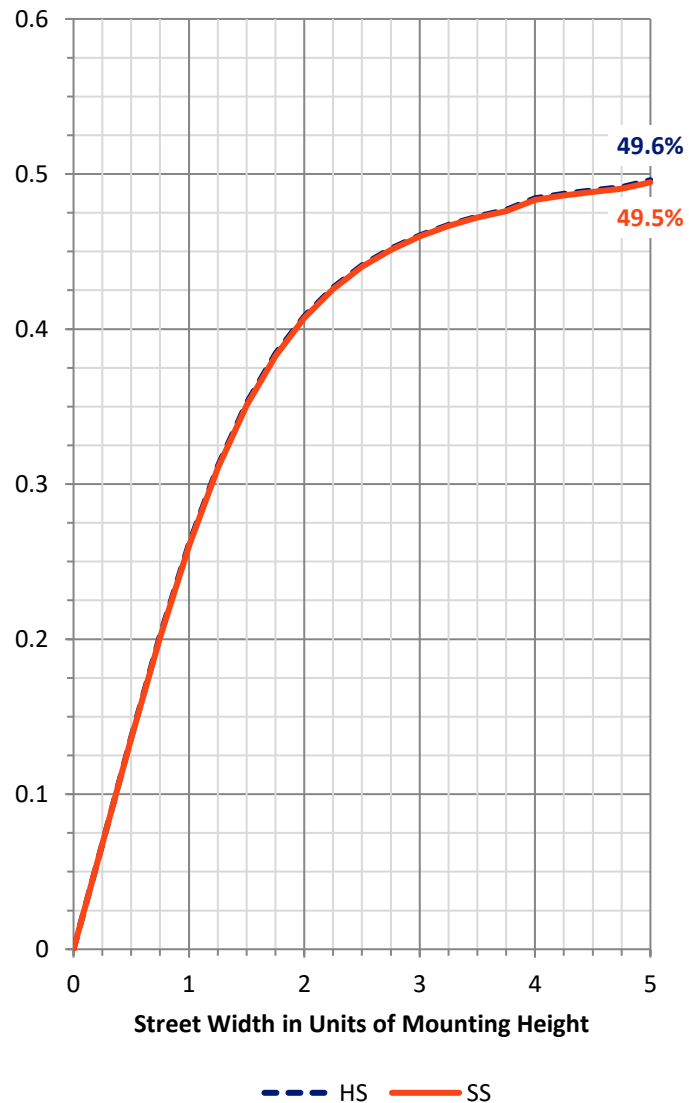
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3244.9	0.0	3244.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3244.9	0.0	3244.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	6489.8	0.0	6489.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	0.8
10°-20°	167.8	2.6
20°-30°	340.3	5.2
30°-40°	591.8	9.1
40°-50°	996.3	15.4
50°-60°	1435.3	22.1
60°-70°	1592.7	24.5
70°-80°	1081.6	16.7
80°-90°	234.3	3.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6489.8	100.0
0°-180°	6489.8	100.0

Coefficient of Utilization



REPORT NUMBER: P197859

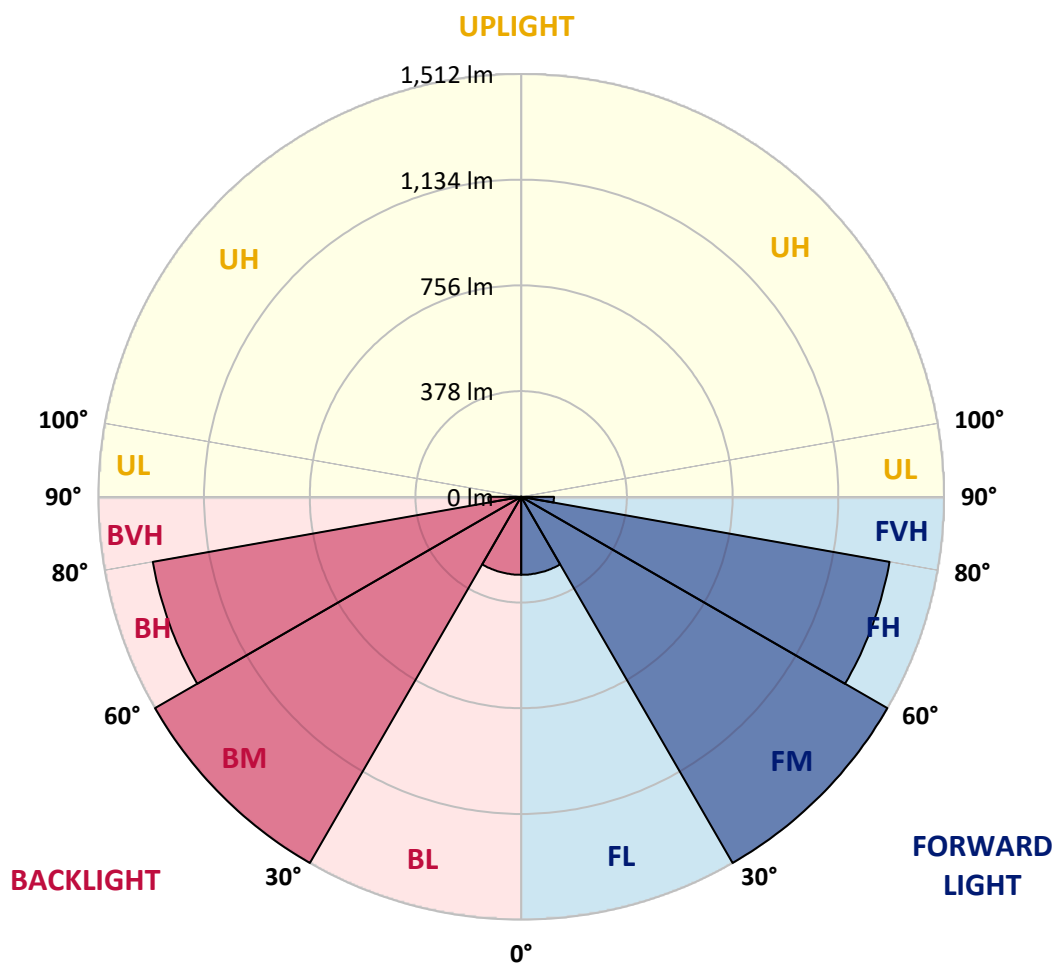
CATALOG NUMBER: TT-C4-LED-E1-WQ-CG-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	278.9	4.3			
FM	(30°-60°)	1511.7	23.3			
FH	(60°-80°)	1337.2	20.6			G1/1800
FVH	(80°-90°)	117.1	1.8			G2/225
BL	(0°-30°)	278.9	4.3	B1/500		
BM	(30°-60°)	1511.7	23.3	B2/2500		
BH	(60°-80°)	1337.2	20.6	B3/2500		G1/1800
BVH	(80°-90°)	117.1	1.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



REPORT NUMBER: P197859

CATALOG NUMBER: TT-C4-LED-E1-WQ-CG-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6
2.5°	510.4	510.4	510.4	510.4	510.4	509.1	510.4	509.1	509.1	509.1	509.1
5°	514.3	515.6	515.6	515.6	515.6	517.0	517.0	518.3	518.3	518.3	518.3
7.5°	518.3	518.3	518.3	518.3	518.3	518.3	519.6	519.6	520.9	520.9	522.2
10°	534.0	534.0	535.3	535.3	534.0	534.0	534.0	532.7	532.7	531.4	531.4
12.5°	556.3	556.3	557.6	558.9	558.9	557.6	556.3	553.7	552.4	552.4	552.4
15°	573.4	574.7	577.3	579.9	581.2	581.2	582.6	582.6	582.6	581.2	579.9
17.5°	606.2	606.2	607.5	608.8	608.8	610.1	612.7	615.4	620.6	621.9	618.0
20°	653.4	654.7	658.7	657.3	657.3	660.0	662.6	663.9	667.8	670.5	670.5
22.5°	688.8	691.5	696.7	696.7	695.4	696.7	699.3	699.3	699.3	698.0	700.6
25°	716.4	719.0	723.0	723.0	725.6	732.1	740.0	738.7	734.8	734.8	733.4
27.5°	753.1	754.4	757.1	757.1	761.0	764.9	770.2	775.4	778.1	776.7	774.1
30°	799.1	801.7	804.3	800.4	806.9	810.9	813.5	813.5	824.0	829.2	820.0
32.5°	833.2	838.4	843.7	847.6	860.7	867.3	863.3	867.3	872.5	877.8	877.8
35°	889.6	894.8	898.8	901.4	914.5	923.7	934.2	944.7	943.4	939.4	947.3
37.5°	970.9	976.2	980.1	985.4	1002.4	1009.0	1016.9	1039.2	1047.0	1036.5	1041.8
40°	1057.5	1066.7	1079.8	1095.6	1120.5	1128.4	1141.5	1157.2	1171.7	1176.9	1163.8
42.5°	1132.3	1142.8	1145.4	1170.4	1200.5	1224.2	1242.5	1246.5	1259.6	1271.4	1262.2
45°	1212.4	1221.5	1228.1	1249.1	1266.1	1299.0	1329.1	1343.6	1350.1	1348.8	1359.3
47.5°	1287.1	1297.6	1306.8	1329.1	1350.1	1377.7	1397.4	1431.5	1443.3	1427.5	1444.6
50°	1333.1	1346.2	1358.0	1400.0	1436.7	1465.6	1481.3	1510.2	1531.2	1520.7	1524.6
52.5°	1409.2	1414.4	1423.6	1447.2	1495.8	1562.7	1578.4	1594.2	1620.4	1633.5	1609.9
55°	1506.3	1520.7	1533.8	1564.0	1588.9	1638.8	1710.9	1730.6	1729.3	1770.0	1733.2
57.5°	1527.3	1548.2	1574.5	1629.6	1678.1	1707.0	1752.9	1808.0	1813.3	1815.9	1821.2
60°	1529.9	1543.0	1560.1	1606.0	1691.3	1743.7	1770.0	1805.4	1852.6	1818.5	1854.0
61°	1535.1	1549.6	1562.7	1599.4	1674.2	1741.1	1775.2	1794.9	1855.3	1821.2	1850.0
62.5°	1525.9	1543.0	1562.7	1598.1	1648.0	1716.2	1781.8	1781.8	1842.1	1819.8	1835.6
65°	1470.8	1486.6	1524.6	1570.5	1630.9	1666.3	1734.6	1777.9	1768.7	1808.0	1768.7
67.5°	1377.7	1390.8	1423.6	1477.4	1543.0	1592.9	1624.3	1693.9	1684.7	1725.4	1680.8
70°	1246.5	1263.5	1304.2	1340.9	1402.6	1455.1	1497.1	1539.1	1557.4	1553.5	1556.1
72.5°	1089.0	1100.8	1137.6	1178.2	1226.8	1285.8	1323.9	1350.1	1379.0	1377.7	1382.9
75°	906.6	917.1	948.6	978.8	1026.0	1072.0	1115.3	1142.8	1166.4	1165.1	1159.9
77.5°	699.3	711.1	746.6	772.8	795.1	846.3	879.1	897.5	917.1	917.1	919.8
80°	488.1	496.0	523.5	551.1	572.1	597.0	639.0	642.9	665.2	660.0	665.2
82.5°	293.9	299.2	320.1	335.9	350.3	373.9	393.6	401.5	414.6	409.4	417.2
85°	132.5	135.1	148.3	157.4	164.0	177.1	187.6	191.6	198.1	196.8	202.1
87.5°	27.6	30.2	34.1	36.7	38.1	43.3	47.2	47.2	49.9	49.9	51.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P197859

CATALOG NUMBER: TT-C4-LED-E1-WQ-CG-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6
2.5°	509.1	510.4	509.1	509.1	509.1	510.4	509.1	510.4
5°	518.3	518.3	518.3	517.0	515.6	515.6	515.6	514.3
7.5°	523.5	523.5	522.2	520.9	519.6	520.9	520.9	520.9
10°	534.0	536.6	537.9	537.9	536.6	536.6	536.6	535.3
12.5°	552.4	553.7	557.6	558.9	560.3	558.9	555.0	553.7
15°	577.3	577.3	578.6	581.2	581.2	576.0	572.1	570.8
17.5°	612.7	611.4	608.8	608.8	610.1	607.5	603.6	603.6
20°	666.5	661.3	658.7	654.7	658.7	658.7	650.8	646.9
22.5°	704.6	699.3	692.8	688.8	694.1	698.0	688.8	683.6
25°	737.4	738.7	728.2	723.0	724.3	726.9	715.1	713.8
27.5°	771.5	774.1	768.9	759.7	757.1	762.3	753.1	750.5
30°	813.5	812.2	814.8	803.0	797.7	801.7	800.4	793.8
32.5°	868.6	862.0	864.7	854.2	843.7	843.7	835.8	827.9
35°	944.7	930.3	923.7	917.1	897.5	898.8	892.2	885.6
37.5°	1044.4	1022.1	1003.7	1007.7	978.8	976.2	972.2	963.1
40°	1158.6	1148.1	1127.1	1115.3	1085.1	1070.7	1065.4	1048.3
42.5°	1243.8	1246.5	1215.0	1194.0	1170.4	1145.4	1142.8	1125.8
45°	1335.7	1326.5	1297.6	1263.5	1253.0	1222.9	1218.9	1201.9
47.5°	1427.5	1396.0	1379.0	1343.6	1326.5	1288.5	1291.1	1275.3
50°	1514.1	1477.4	1461.6	1419.7	1393.4	1355.4	1346.2	1319.9
52.5°	1606.0	1571.9	1546.9	1493.1	1455.1	1426.2	1410.5	1400.0
55°	1729.3	1695.2	1638.8	1588.9	1557.4	1510.2	1504.9	1486.6
57.5°	1787.0	1762.1	1700.4	1665.0	1608.6	1560.1	1544.3	1507.6
60°	1793.6	1783.1	1717.5	1683.4	1600.7	1561.4	1541.7	1519.4
61°	1792.3	1779.2	1716.2	1674.2	1595.5	1556.1	1540.4	1520.7
62.5°	1787.0	1771.3	1701.8	1658.5	1585.0	1546.9	1533.8	1504.9
65°	1770.0	1726.7	1666.3	1627.0	1546.9	1512.8	1481.3	1452.5
67.5°	1695.2	1613.8	1588.9	1539.1	1457.7	1419.7	1390.8	1365.9
70°	1535.1	1481.3	1455.1	1393.4	1327.8	1296.3	1263.5	1232.0
72.5°	1347.5	1312.1	1289.8	1215.0	1166.4	1134.9	1104.8	1074.6
75°	1137.6	1111.3	1070.7	1014.2	970.9	939.4	911.9	897.5
77.5°	893.5	876.5	845.0	788.6	764.9	737.4	709.8	687.5
80°	642.9	629.8	604.9	564.2	544.5	517.0	497.3	478.9
82.5°	400.2	389.7	375.3	345.1	337.2	320.1	301.8	288.7
85°	191.6	185.0	179.8	160.1	158.8	144.3	137.8	129.9
87.5°	49.9	48.5	45.9	39.4	38.1	34.1	31.5	27.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)