

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: P197934

Luminaire Tested: **TT-C5-LED-E1-WQ-SG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115543)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C5-LED-E1-WQ-SG
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8390 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 77
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



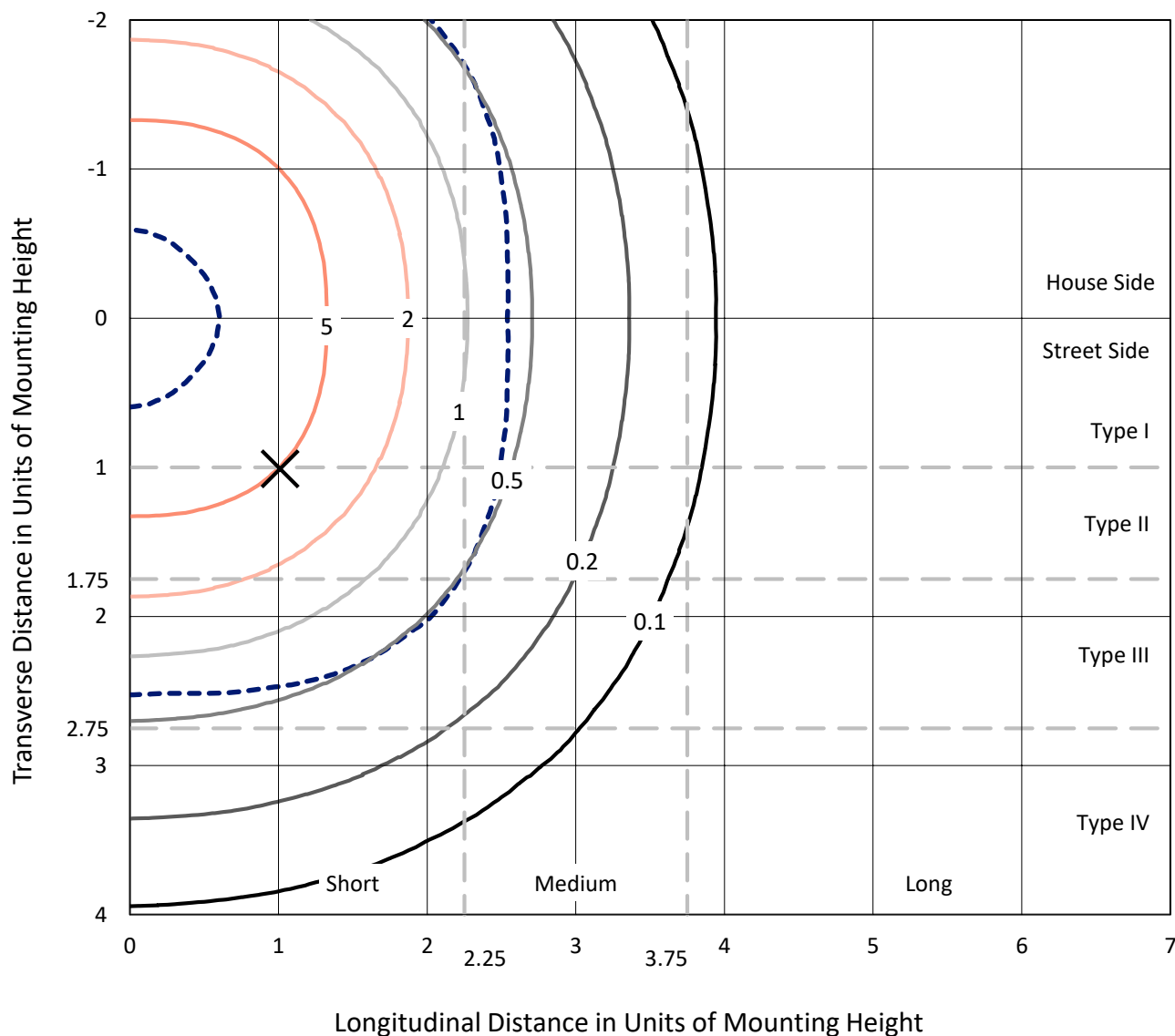
REPORT NUMBER: P197934

CATALOG NUMBER: TT-C5-LED-E1-WQ-SG

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

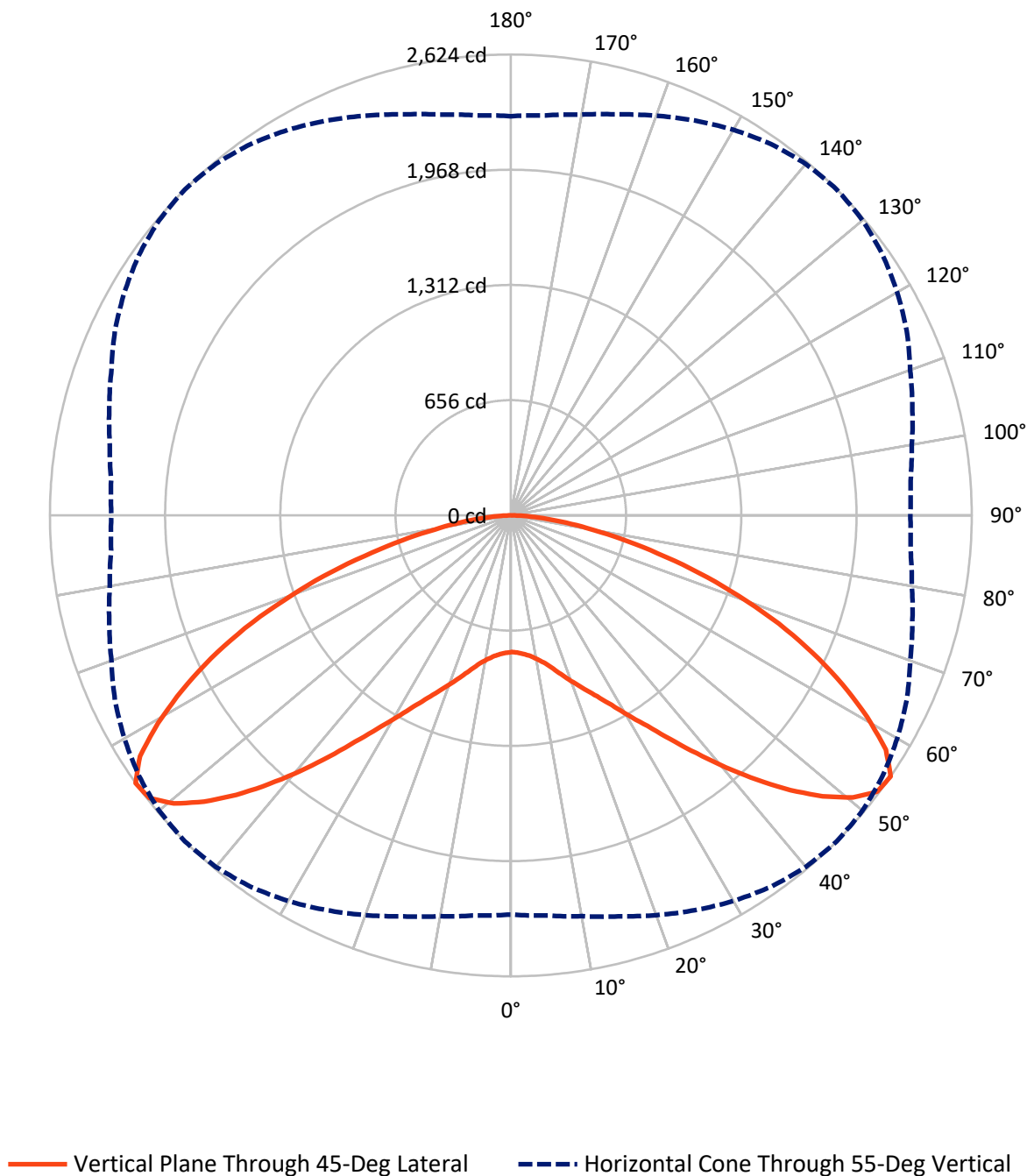


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
Type V - Short - Full Cutoff

REPORT NUMBER: P197934

CATALOG NUMBER: TT-C5-LED-E1-WQ-SG

Luminous Intensity Polar Plot



REPORT NUMBER: P197934

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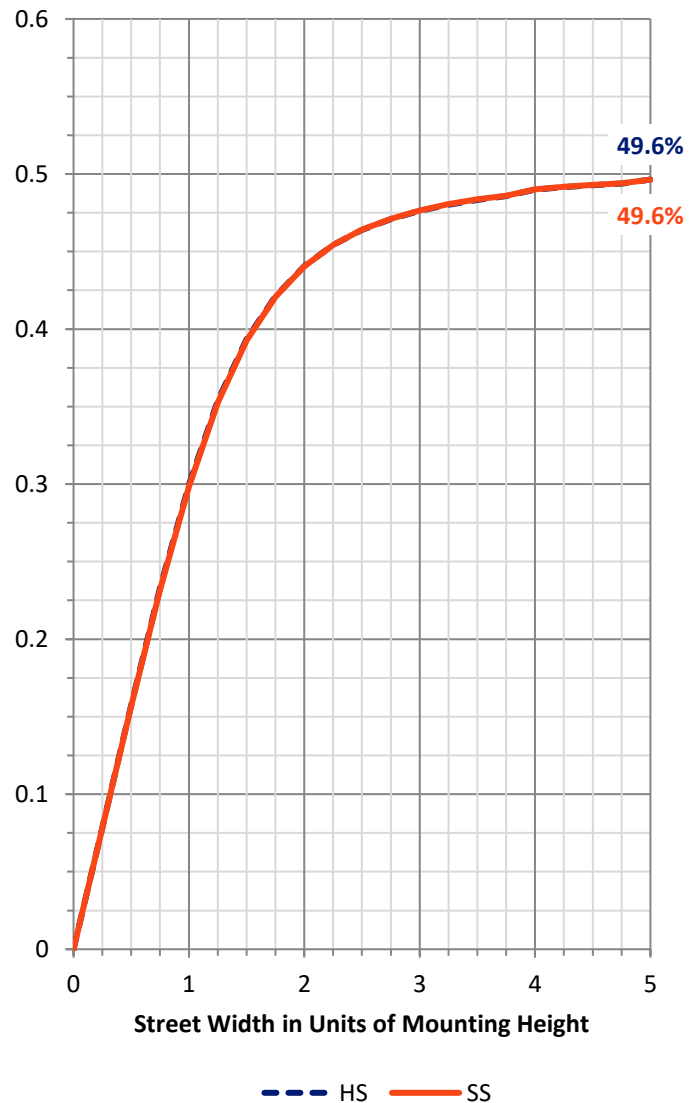
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4195.0	0.0	4195.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4195.0	0.0	4195.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8390.0	0.0	8390.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	0.9
10°-20°	260.4	3.1
20°-30°	530.4	6.3
30°-40°	968.5	11.5
40°-50°	1644.5	19.6
50°-60°	2141.7	25.5
60°-70°	1732.2	20.6
70°-80°	851.2	10.1
80°-90°	184.2	2.2
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°	8390.0	100.0
0°-180°	8390.0	100.0

Coefficient of Utilization



REPORT NUMBER: P197934

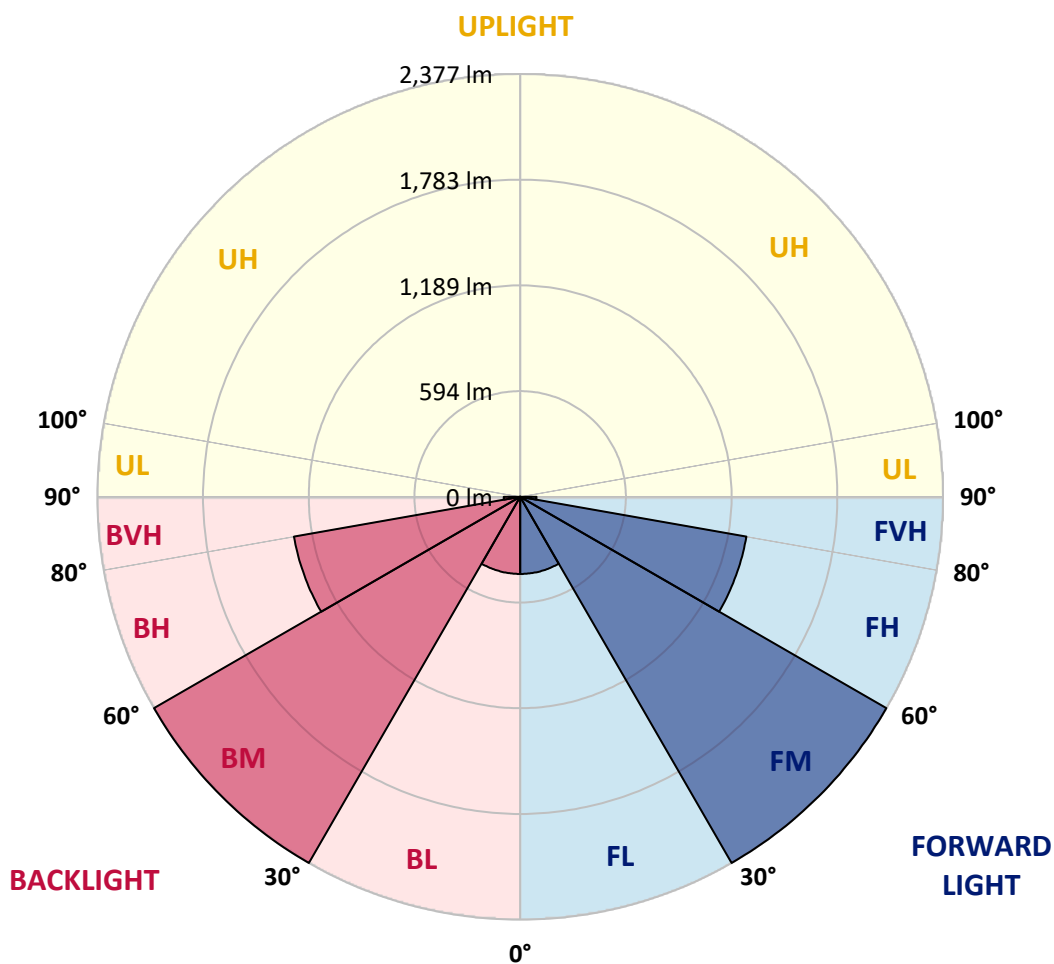
CATALOG NUMBER: TT-C5-LED-E1-WQ-SG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	433.8	5.2			
FM	(30°-60°)	2377.4	28.3			
FH	(60°-80°)	1291.7	15.4			G1/1800
FVH	(80°-90°)	92.1	1.1			G1/100
BL	(0°-30°)	433.8	5.2	B1/500		
BM	(30°-60°)	2377.4	28.3	B2/2500		
BH	(60°-80°)	1291.7	15.4	B3/2500		G1/1800
BVH	(80°-90°)	92.1	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



REPORT NUMBER: P197934

CATALOG NUMBER: TT-C5-LED-E1-WQ-SG

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	777.4	777.4	777.4	777.4	777.4	777.4	777.4	777.4	777.4	777.4	777.4
2.5°	780.8	780.8	780.8	780.8	780.8	780.8	782.6	782.6	782.6	782.6	782.6
5°	791.1	791.1	791.1	792.9	792.9	792.9	792.9	792.9	792.9	792.9	792.9
7.5°	806.6	804.9	806.6	806.6	806.6	808.3	808.3	806.6	808.3	808.3	808.3
10°	828.9	827.2	828.9	828.9	828.9	830.6	830.6	830.6	830.6	832.3	832.3
12.5°	861.5	859.8	861.5	863.2	861.5	863.2	863.2	863.2	863.2	863.2	863.2
15°	902.7	901.0	902.7	904.4	902.7	906.1	906.1	904.4	904.4	906.1	906.1
17.5°	952.5	949.0	950.7	952.5	952.5	955.9	955.9	954.2	955.9	957.6	955.9
20°	1003.9	1000.5	1002.2	1007.4	1007.4	1009.1	1012.5	1010.8	1012.5	1014.2	1012.5
22.5°	1060.6	1058.9	1060.6	1065.7	1065.7	1067.4	1072.6	1072.6	1072.6	1074.3	1072.6
25°	1122.3	1120.6	1122.3	1127.5	1127.5	1130.9	1137.8	1137.8	1139.5	1141.2	1139.5
27.5°	1194.4	1192.7	1196.1	1201.3	1203.0	1208.2	1216.7	1218.5	1220.2	1221.9	1218.5
30°	1278.5	1275.1	1280.2	1288.8	1292.2	1299.1	1309.4	1312.8	1314.6	1319.7	1316.3
32.5°	1374.6	1371.2	1378.1	1388.3	1393.5	1403.8	1417.5	1421.0	1426.1	1429.5	1424.4
35°	1487.9	1486.2	1493.0	1508.5	1517.1	1529.1	1547.9	1553.1	1556.5	1563.4	1556.5
37.5°	1613.2	1611.4	1623.5	1640.6	1656.1	1674.9	1695.5	1704.1	1709.3	1717.8	1709.3
40°	1752.2	1750.4	1765.9	1786.5	1805.4	1829.4	1855.1	1867.1	1877.4	1886.0	1875.7
42.5°	1894.6	1894.6	1913.5	1935.8	1963.2	1992.4	2021.6	2035.3	2052.5	2057.6	2045.6
45°	2031.9	2033.6	2052.5	2079.9	2119.4	2157.2	2189.8	2206.9	2225.8	2231.0	2215.5
47.5°	2162.3	2164.0	2181.2	2217.2	2261.9	2304.8	2344.2	2368.3	2387.1	2388.8	2376.8
50°	2268.7	2275.6	2297.9	2330.5	2376.8	2421.5	2469.5	2500.4	2519.3	2524.4	2512.4
52.5°	2309.9	2321.9	2347.7	2388.8	2442.0	2488.4	2541.6	2581.1	2603.4	2611.9	2601.6
55°	2272.2	2285.9	2316.8	2363.1	2421.5	2479.8	2534.7	2581.1	2611.9	2624.0	2613.7
57.5°	2188.1	2189.8	2220.7	2267.0	2320.2	2380.3	2433.5	2476.4	2505.5	2517.6	2515.8
60°	2042.2	2042.2	2071.4	2116.0	2157.2	2219.0	2263.6	2296.2	2316.8	2330.5	2327.1
62.5°	1846.6	1846.6	1872.3	1918.6	1959.8	2013.0	2055.9	2090.2	2104.0	2119.4	2122.8
65°	1628.6	1628.6	1652.6	1699.0	1736.7	1784.8	1826.0	1858.6	1872.3	1891.2	1887.7
67.5°	1396.9	1395.2	1417.5	1457.0	1493.0	1537.7	1577.1	1608.0	1623.5	1645.8	1630.3
70°	1158.4	1158.4	1177.3	1208.2	1233.9	1278.5	1316.3	1347.2	1359.2	1378.1	1369.5
72.5°	931.9	930.1	945.6	969.6	990.2	1029.7	1052.0	1086.3	1096.6	1122.3	1108.6
75°	727.6	724.2	736.2	753.4	767.1	792.9	810.0	837.5	846.1	863.2	856.3
77.5°	547.4	545.7	550.9	562.9	573.2	593.8	600.6	614.4	621.2	638.4	624.7
80°	393.0	387.8	393.0	399.9	403.3	418.7	420.5	425.6	429.0	441.0	427.3
82.5°	264.3	257.4	260.9	266.0	266.0	274.6	276.3	274.6	281.4	284.9	278.0
85°	151.0	145.9	147.6	151.0	149.3	154.5	154.5	152.7	157.9	157.9	154.5
87.5°	49.8	46.3	48.1	49.8	49.8	51.5	53.2	51.5	54.9	54.9	51.5
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: P197934

CATALOG NUMBER: TT-C5-LED-E1-WQ-SG

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	777.4	777.4	777.4	777.4	777.4	777.4	777.4	777.4
2.5°	782.6	782.6	782.6	782.6	782.6	782.6	782.6	782.6
5°	792.9	792.9	792.9	792.9	792.9	791.1	791.1	791.1
7.5°	808.3	808.3	808.3	808.3	808.3	806.6	806.6	806.6
10°	832.3	830.6	830.6	830.6	830.6	828.9	830.6	828.9
12.5°	863.2	864.9	864.9	863.2	864.9	861.5	861.5	861.5
15°	906.1	904.4	904.4	904.4	904.4	902.7	902.7	902.7
17.5°	954.2	954.2	952.5	952.5	950.7	949.0	949.0	949.0
20°	1010.8	1009.1	1007.4	1005.7	1003.9	1000.5	998.8	998.8
22.5°	1069.1	1067.4	1065.7	1064.0	1062.3	1058.9	1055.4	1055.4
25°	1134.4	1130.9	1129.2	1125.8	1122.3	1118.9	1117.2	1115.5
27.5°	1213.3	1209.9	1204.7	1199.6	1192.7	1191.0	1187.6	1187.6
30°	1307.7	1302.5	1295.7	1287.1	1280.2	1273.4	1269.9	1268.2
32.5°	1417.5	1410.7	1398.6	1388.3	1376.3	1369.5	1364.3	1360.9
35°	1546.2	1535.9	1522.2	1506.8	1491.3	1479.3	1470.7	1470.7
37.5°	1697.2	1681.8	1661.2	1642.3	1620.0	1606.3	1596.0	1589.1
40°	1862.0	1839.7	1813.9	1789.9	1764.2	1745.3	1729.9	1731.6
42.5°	2025.0	2006.2	1975.3	1946.1	1913.5	1887.7	1868.9	1867.1
45°	2196.6	2172.6	2134.9	2097.1	2059.4	2028.5	2006.2	2002.7
47.5°	2356.2	2330.5	2285.9	2239.5	2198.4	2164.0	2140.0	2136.6
50°	2486.7	2455.8	2409.4	2359.7	2315.1	2277.3	2251.6	2244.7
52.5°	2570.8	2536.4	2486.7	2426.6	2378.6	2335.6	2304.8	2296.2
55°	2584.5	2539.9	2486.7	2419.7	2366.5	2318.5	2284.2	2273.9
57.5°	2490.1	2442.0	2394.0	2335.6	2282.4	2231.0	2203.5	2189.8
60°	2306.5	2268.7	2229.2	2176.0	2133.1	2085.1	2062.8	2055.9
62.5°	2095.4	2062.8	2026.7	1971.8	1935.8	1892.9	1872.3	1863.7
65°	1868.9	1831.1	1796.8	1752.2	1712.7	1676.7	1647.5	1644.1
67.5°	1618.3	1578.8	1549.7	1510.2	1470.7	1436.4	1417.5	1407.2
70°	1354.0	1321.4	1292.2	1249.3	1223.6	1191.0	1177.3	1167.0
72.5°	1091.5	1072.6	1036.5	1009.1	979.9	954.2	945.6	935.3
75°	844.3	822.0	794.6	777.4	755.1	741.4	734.5	727.6
77.5°	619.5	600.6	585.2	578.3	568.0	554.3	549.2	544.0
80°	429.0	420.5	410.2	408.4	401.6	391.3	389.6	387.8
82.5°	278.0	272.9	269.4	269.4	266.0	259.1	257.4	257.4
85°	154.5	152.7	154.5	152.7	149.3	145.9	145.9	145.9
87.5°	51.5	51.5	53.2	54.9	49.8	49.8	48.1	48.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)