

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: P197866

Luminaire Tested: **TT-C6-LED-E1-5WQ-PM-CG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197866
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-C6-LED-E1-5WQ-PM-CG
Description: TOPTIER LED AREA/SITE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10851.1 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

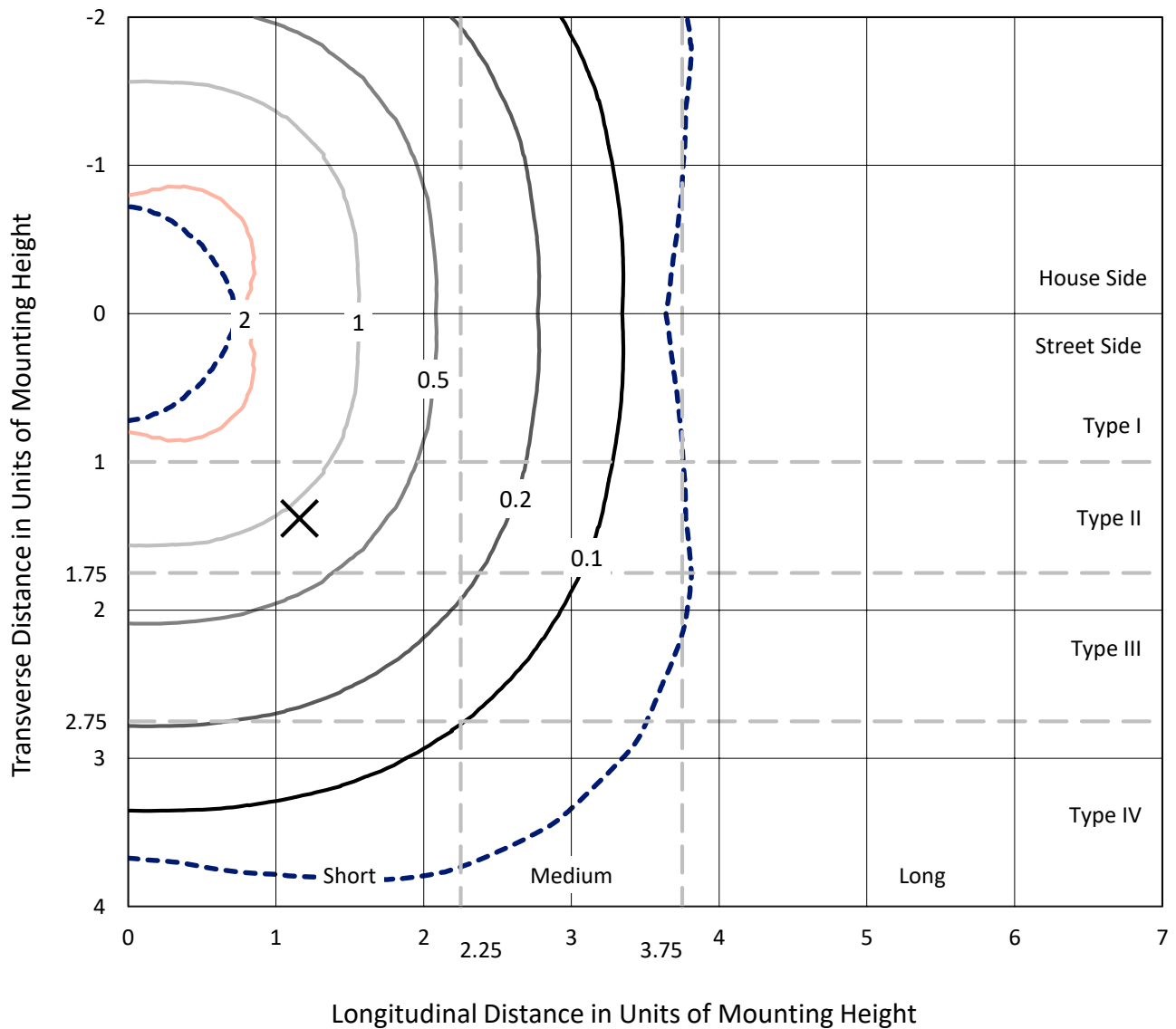
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P197866
 CATALOG NUMBER: TT-C6-LED-E1-5WQ-PM-CG

Iso-Footcandle Lines of Horizontal Illumination

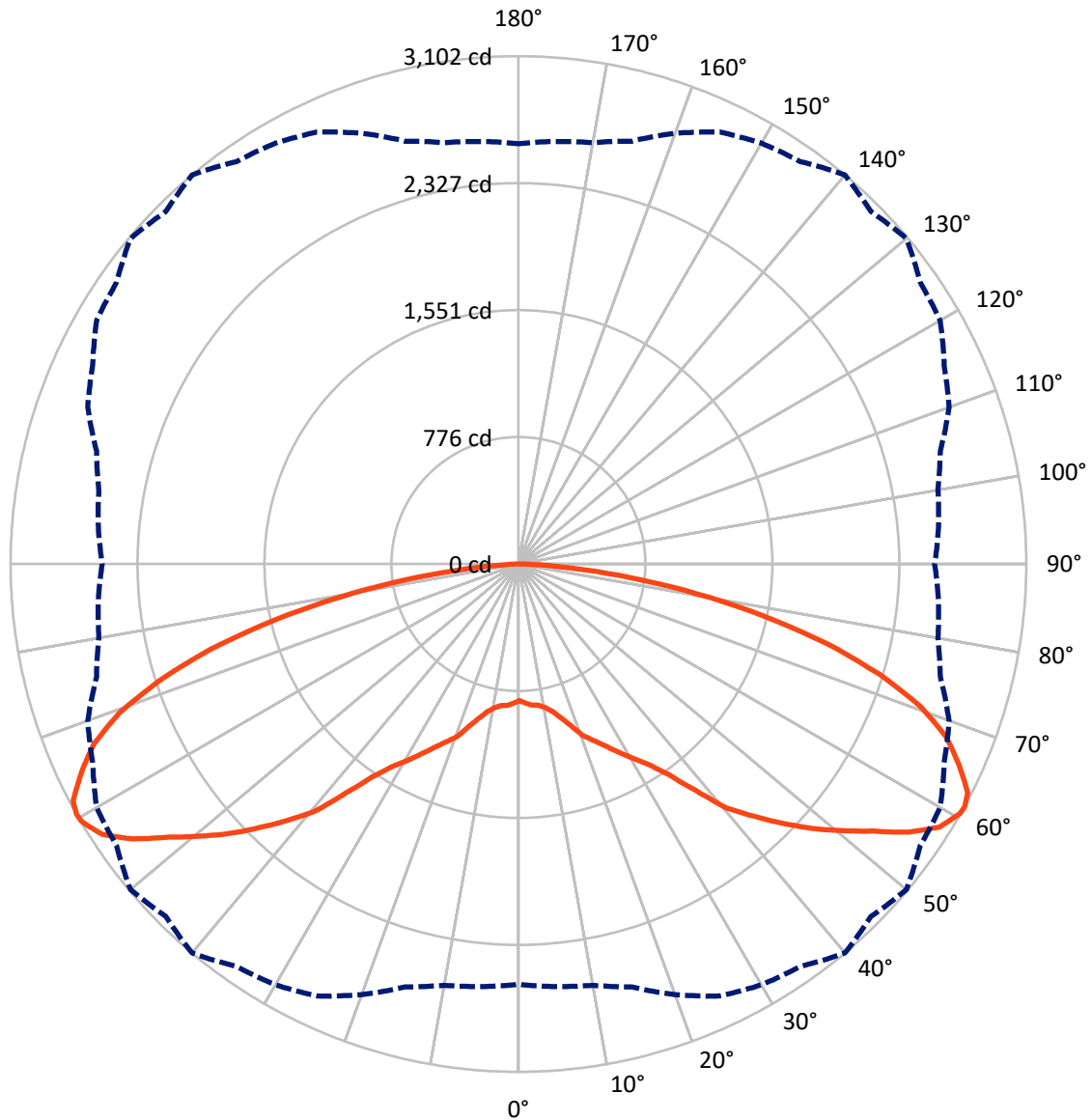
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P197866
CATALOG NUMBER: TT-C6-LED-E1-5WQ-PM-CG

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 61-Deg Vertical

REPORT NUMBER: P197866

CATALOG NUMBER: TT-C6-LED-E1-5WQ-PM-CG

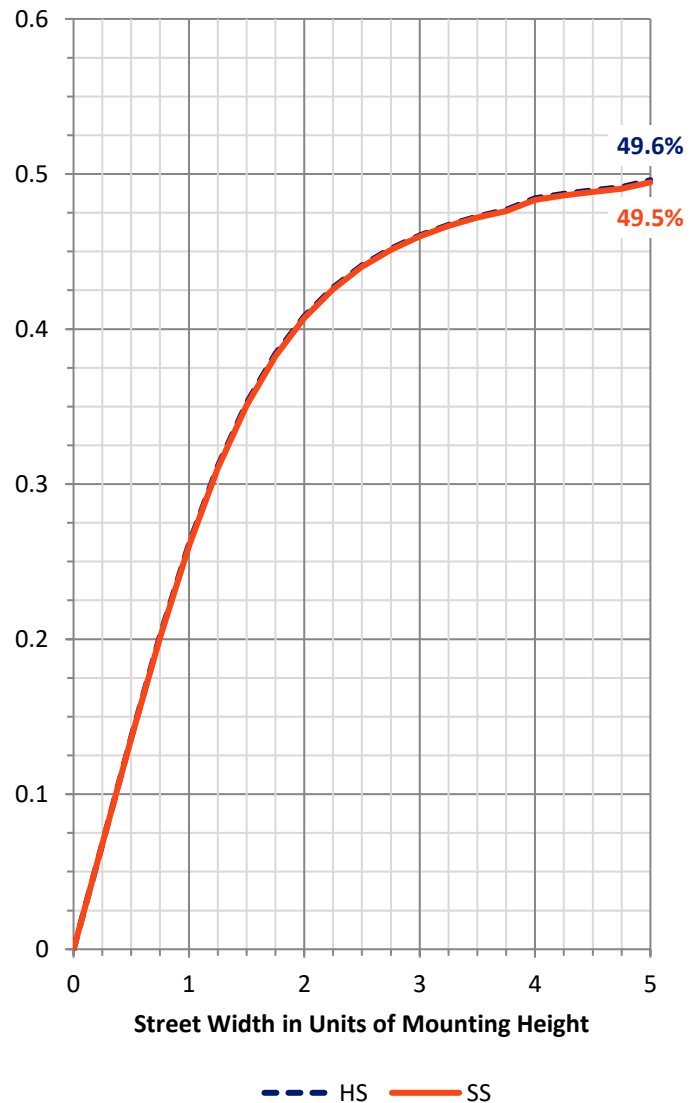
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5425.6 | 0.0 | 5425.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5425.6 | 0.0 | 5425.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10851.1 | 0.0 | 10851.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 83.1 | 0.8 |
| 10°-20° | 280.5 | 2.6 |
| 20°-30° | 569.0 | 5.2 |
| 30°-40° | 989.6 | 9.1 |
| 40°-50° | 1665.8 | 15.4 |
| 50°-60° | 2399.9 | 22.1 |
| 60°-70° | 2663.0 | 24.5 |
| 70°-80° | 1808.5 | 16.7 |
| 80°-90° | 391.7 | 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° | 10851.1 | 100.0 |
| 0°-180° | 10851.1 | 100.0 |



REPORT NUMBER: P197866

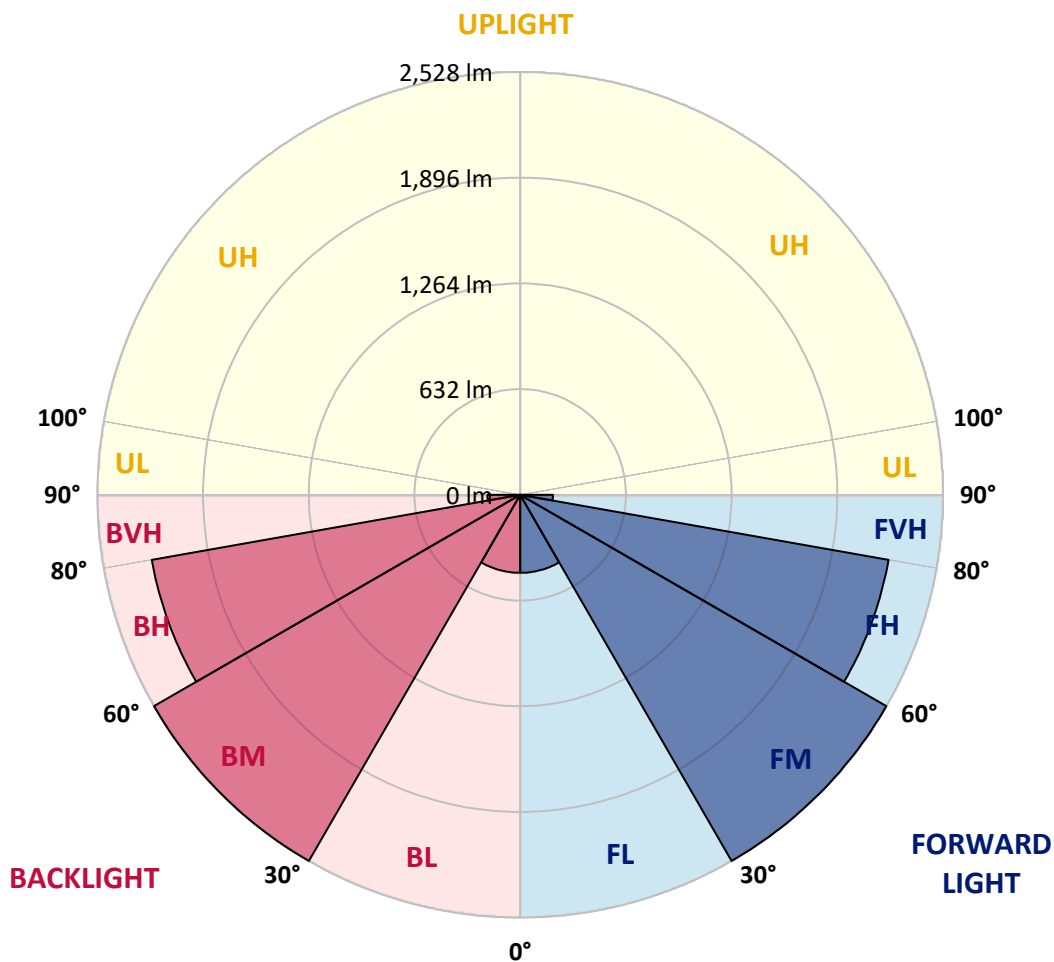
CATALOG NUMBER: TT-C6-LED-E1-5WQ-PM-CG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 466.3 | 4.3 | | | |
| FM | (30°-60°) | 2527.6 | 23.3 | | | |
| FH | (60°-80°) | 2235.8 | 20.6 | | | G2/5000 |
| FVH | (80°-90°) | 195.9 | 1.8 | | | G2/225 |
| BL | (0°-30°) | 466.3 | 4.3 | B1/500 | | |
| BM | (30°-60°) | 2527.6 | 23.3 | B3/5000 | | |
| BH | (60°-80°) | 2235.8 | 20.6 | B3/2500 | | G2/5000 |
| BVH | (80°-90°) | 195.9 | 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: P197866

CATALOG NUMBER: TT-C6-LED-E1-5WQ-PM-CG

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 |
| 2.5° | 853.4 | 853.4 | 853.4 | 853.4 | 853.4 | 851.2 | 853.4 | 851.2 | 851.2 | 851.2 | 851.2 |
| 5° | 860.0 | 862.2 | 862.2 | 862.2 | 862.2 | 864.4 | 864.4 | 866.6 | 866.6 | 866.6 | 866.6 |
| 7.5° | 866.6 | 866.6 | 866.6 | 866.6 | 866.6 | 866.6 | 868.8 | 868.8 | 870.9 | 870.9 | 873.1 |
| 10° | 892.9 | 892.9 | 895.1 | 895.1 | 892.9 | 892.9 | 892.9 | 890.7 | 890.7 | 888.5 | 888.5 |
| 12.5° | 930.2 | 930.2 | 932.4 | 934.6 | 934.6 | 932.4 | 930.2 | 925.8 | 923.6 | 923.6 | 923.6 |
| 15° | 958.7 | 960.9 | 965.3 | 969.7 | 971.9 | 971.9 | 974.1 | 974.1 | 974.1 | 971.9 | 969.7 |
| 17.5° | 1013.5 | 1013.5 | 1015.7 | 1017.9 | 1017.9 | 1020.1 | 1024.5 | 1028.9 | 1037.7 | 1039.9 | 1033.3 |
| 20° | 1092.5 | 1094.7 | 1101.3 | 1099.1 | 1099.1 | 1103.5 | 1107.9 | 1110.1 | 1116.7 | 1121.0 | 1121.0 |
| 22.5° | 1151.8 | 1156.1 | 1164.9 | 1164.9 | 1162.7 | 1164.9 | 1169.3 | 1169.3 | 1169.3 | 1167.1 | 1171.5 |
| 25° | 1197.8 | 1202.2 | 1208.8 | 1208.8 | 1213.2 | 1224.2 | 1237.3 | 1235.1 | 1228.5 | 1228.5 | 1226.3 |
| 27.5° | 1259.3 | 1261.4 | 1265.8 | 1265.8 | 1272.4 | 1279.0 | 1287.8 | 1296.5 | 1300.9 | 1298.7 | 1294.4 |
| 30° | 1336.0 | 1340.4 | 1344.8 | 1338.2 | 1349.2 | 1355.8 | 1360.2 | 1360.2 | 1377.7 | 1386.5 | 1371.1 |
| 32.5° | 1393.1 | 1401.9 | 1410.6 | 1417.2 | 1439.1 | 1450.1 | 1443.5 | 1450.1 | 1458.9 | 1467.7 | 1467.7 |
| 35° | 1487.4 | 1496.2 | 1502.8 | 1507.2 | 1529.1 | 1544.5 | 1562.0 | 1579.6 | 1577.4 | 1570.8 | 1583.9 |
| 37.5° | 1623.4 | 1632.2 | 1638.8 | 1647.6 | 1676.1 | 1687.1 | 1700.2 | 1737.5 | 1750.7 | 1733.1 | 1741.9 |
| 40° | 1768.2 | 1783.6 | 1805.5 | 1831.8 | 1873.5 | 1886.7 | 1908.6 | 1935.0 | 1959.1 | 1967.9 | 1945.9 |
| 42.5° | 1893.3 | 1910.8 | 1915.2 | 1956.9 | 2007.3 | 2046.8 | 2077.6 | 2084.1 | 2106.1 | 2125.8 | 2110.5 |
| 45° | 2027.1 | 2042.4 | 2053.4 | 2088.5 | 2117.0 | 2171.9 | 2222.3 | 2246.5 | 2257.4 | 2255.3 | 2272.8 |
| 47.5° | 2152.1 | 2169.7 | 2185.0 | 2222.3 | 2257.4 | 2303.5 | 2336.4 | 2393.5 | 2413.2 | 2386.9 | 2415.4 |
| 50° | 2228.9 | 2250.9 | 2270.6 | 2340.8 | 2402.2 | 2450.5 | 2476.8 | 2525.1 | 2560.2 | 2542.6 | 2549.2 |
| 52.5° | 2356.2 | 2364.9 | 2380.3 | 2419.8 | 2501.0 | 2612.8 | 2639.2 | 2665.5 | 2709.4 | 2731.3 | 2691.8 |
| 55° | 2518.5 | 2542.6 | 2564.6 | 2615.0 | 2656.7 | 2740.1 | 2860.7 | 2893.7 | 2891.5 | 2959.5 | 2898.0 |
| 57.5° | 2553.6 | 2588.7 | 2632.6 | 2724.7 | 2805.9 | 2854.2 | 2930.9 | 3023.1 | 3031.9 | 3036.3 | 3045.0 |
| 60° | 2558.0 | 2579.9 | 2608.5 | 2685.2 | 2827.8 | 2915.6 | 2959.5 | 3018.7 | 3097.7 | 3040.6 | 3099.9 |
| 61° | 2566.8 | 2590.9 | 2612.8 | 2674.3 | 2799.3 | 2911.2 | 2968.2 | 3001.2 | 3102.1 | 3045.0 | 3093.3 |
| 62.5° | 2551.4 | 2579.9 | 2612.8 | 2672.1 | 2755.4 | 2869.5 | 2979.2 | 2979.2 | 3080.1 | 3042.8 | 3069.2 |
| 65° | 2459.3 | 2485.6 | 2549.2 | 2626.0 | 2726.9 | 2786.2 | 2900.2 | 2972.6 | 2957.3 | 3023.1 | 2957.3 |
| 67.5° | 2303.5 | 2325.5 | 2380.3 | 2470.2 | 2579.9 | 2663.3 | 2716.0 | 2832.2 | 2816.9 | 2884.9 | 2810.3 |
| 70° | 2084.1 | 2112.7 | 2180.7 | 2242.1 | 2345.2 | 2432.9 | 2503.2 | 2573.4 | 2604.1 | 2597.5 | 2601.9 |
| 72.5° | 1820.9 | 1840.6 | 1902.0 | 1970.1 | 2051.2 | 2149.9 | 2213.6 | 2257.4 | 2305.7 | 2303.5 | 2312.3 |
| 75° | 1515.9 | 1533.5 | 1586.1 | 1636.6 | 1715.6 | 1792.4 | 1864.7 | 1910.8 | 1950.3 | 1948.1 | 1939.3 |
| 77.5° | 1169.3 | 1189.1 | 1248.3 | 1292.2 | 1329.5 | 1415.0 | 1469.9 | 1500.6 | 1533.5 | 1533.5 | 1537.9 |
| 80° | 816.1 | 829.3 | 875.3 | 921.4 | 956.5 | 998.2 | 1068.4 | 1075.0 | 1112.3 | 1103.5 | 1112.3 |
| 82.5° | 491.4 | 500.2 | 535.3 | 561.6 | 585.8 | 625.2 | 658.1 | 671.3 | 693.2 | 684.5 | 697.6 |
| 85° | 221.6 | 226.0 | 247.9 | 263.3 | 274.2 | 296.2 | 313.7 | 320.3 | 331.3 | 329.1 | 337.8 |
| 87.5° | 46.1 | 50.5 | 57.0 | 61.4 | 63.6 | 72.4 | 79.0 | 79.0 | 83.4 | 83.4 | 85.6 |
| 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: P197866

CATALOG NUMBER: TT-C6-LED-E1-5WQ-PM-CG

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 |
| 2.5° | 851.2 | 853.4 | 851.2 | 851.2 | 851.2 | 853.4 | 851.2 | 853.4 |
| 5° | 866.6 | 866.6 | 866.6 | 864.4 | 862.2 | 862.2 | 862.2 | 860.0 |
| 7.5° | 875.3 | 875.3 | 873.1 | 870.9 | 868.8 | 870.9 | 870.9 | 870.9 |
| 10° | 892.9 | 897.3 | 899.5 | 899.5 | 897.3 | 897.3 | 897.3 | 895.1 |
| 12.5° | 923.6 | 925.8 | 932.4 | 934.6 | 936.8 | 934.6 | 928.0 | 925.8 |
| 15° | 965.3 | 965.3 | 967.5 | 971.9 | 971.9 | 963.1 | 956.5 | 954.3 |
| 17.5° | 1024.5 | 1022.3 | 1017.9 | 1017.9 | 1020.1 | 1015.7 | 1009.2 | 1009.2 |
| 20° | 1114.5 | 1105.7 | 1101.3 | 1094.7 | 1101.3 | 1101.3 | 1088.1 | 1081.6 |
| 22.5° | 1178.1 | 1169.3 | 1158.3 | 1151.8 | 1160.5 | 1167.1 | 1151.8 | 1143.0 |
| 25° | 1232.9 | 1235.1 | 1217.6 | 1208.8 | 1211.0 | 1215.4 | 1195.6 | 1193.4 |
| 27.5° | 1290.0 | 1294.4 | 1285.6 | 1270.2 | 1265.8 | 1274.6 | 1259.3 | 1254.9 |
| 30° | 1360.2 | 1358.0 | 1362.4 | 1342.6 | 1333.8 | 1340.4 | 1338.2 | 1327.3 |
| 32.5° | 1452.3 | 1441.3 | 1445.7 | 1428.2 | 1410.6 | 1410.6 | 1397.5 | 1384.3 |
| 35° | 1579.6 | 1555.4 | 1544.5 | 1533.5 | 1500.6 | 1502.8 | 1491.8 | 1480.8 |
| 37.5° | 1746.3 | 1709.0 | 1678.3 | 1684.9 | 1636.6 | 1632.2 | 1625.6 | 1610.3 |
| 40° | 1937.1 | 1919.6 | 1884.5 | 1864.7 | 1814.3 | 1790.2 | 1781.4 | 1752.9 |
| 42.5° | 2079.7 | 2084.1 | 2031.5 | 1996.4 | 1956.9 | 1915.2 | 1910.8 | 1882.3 |
| 45° | 2233.3 | 2218.0 | 2169.7 | 2112.7 | 2095.1 | 2044.6 | 2038.1 | 2009.5 |
| 47.5° | 2386.9 | 2334.2 | 2305.7 | 2246.5 | 2218.0 | 2154.3 | 2158.7 | 2132.4 |
| 50° | 2531.7 | 2470.2 | 2443.9 | 2373.7 | 2329.8 | 2266.2 | 2250.9 | 2207.0 |
| 52.5° | 2685.2 | 2628.2 | 2586.5 | 2496.6 | 2432.9 | 2384.7 | 2358.4 | 2340.8 |
| 55° | 2891.5 | 2834.4 | 2740.1 | 2656.7 | 2604.1 | 2525.1 | 2516.3 | 2485.6 |
| 57.5° | 2988.0 | 2946.3 | 2843.2 | 2784.0 | 2689.6 | 2608.5 | 2582.1 | 2520.7 |
| 60° | 2999.0 | 2981.4 | 2871.7 | 2814.7 | 2676.5 | 2610.6 | 2577.7 | 2540.4 |
| 61° | 2996.8 | 2974.8 | 2869.5 | 2799.3 | 2667.7 | 2601.9 | 2575.5 | 2542.6 |
| 62.5° | 2988.0 | 2961.7 | 2845.4 | 2773.0 | 2650.1 | 2586.5 | 2564.6 | 2516.3 |
| 65° | 2959.5 | 2887.1 | 2786.2 | 2720.3 | 2586.5 | 2529.5 | 2476.8 | 2428.6 |
| 67.5° | 2834.4 | 2698.4 | 2656.7 | 2573.4 | 2437.3 | 2373.7 | 2325.5 | 2283.8 |
| 70° | 2566.8 | 2476.8 | 2432.9 | 2329.8 | 2220.1 | 2167.5 | 2112.7 | 2060.0 |
| 72.5° | 2253.1 | 2193.8 | 2156.5 | 2031.5 | 1950.3 | 1897.7 | 1847.2 | 1796.7 |
| 75° | 1902.0 | 1858.2 | 1790.2 | 1695.8 | 1623.4 | 1570.8 | 1524.7 | 1500.6 |
| 77.5° | 1494.0 | 1465.5 | 1412.8 | 1318.5 | 1279.0 | 1232.9 | 1186.9 | 1149.6 |
| 80° | 1075.0 | 1053.0 | 1011.4 | 943.3 | 910.4 | 864.4 | 831.5 | 800.7 |
| 82.5° | 669.1 | 651.6 | 627.4 | 577.0 | 563.8 | 535.3 | 504.6 | 482.6 |
| 85° | 320.3 | 309.3 | 300.6 | 267.6 | 265.5 | 241.3 | 230.4 | 217.2 |
| 87.5° | 83.4 | 81.2 | 76.8 | 65.8 | 63.6 | 57.0 | 52.7 | 46.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)