

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: P157241

Luminaire Tested: **VTS-E05-LED-E1-5MQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157241
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33708)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-E05-LED-E1-5MQ-7050
Description: VENTUS LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (105) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

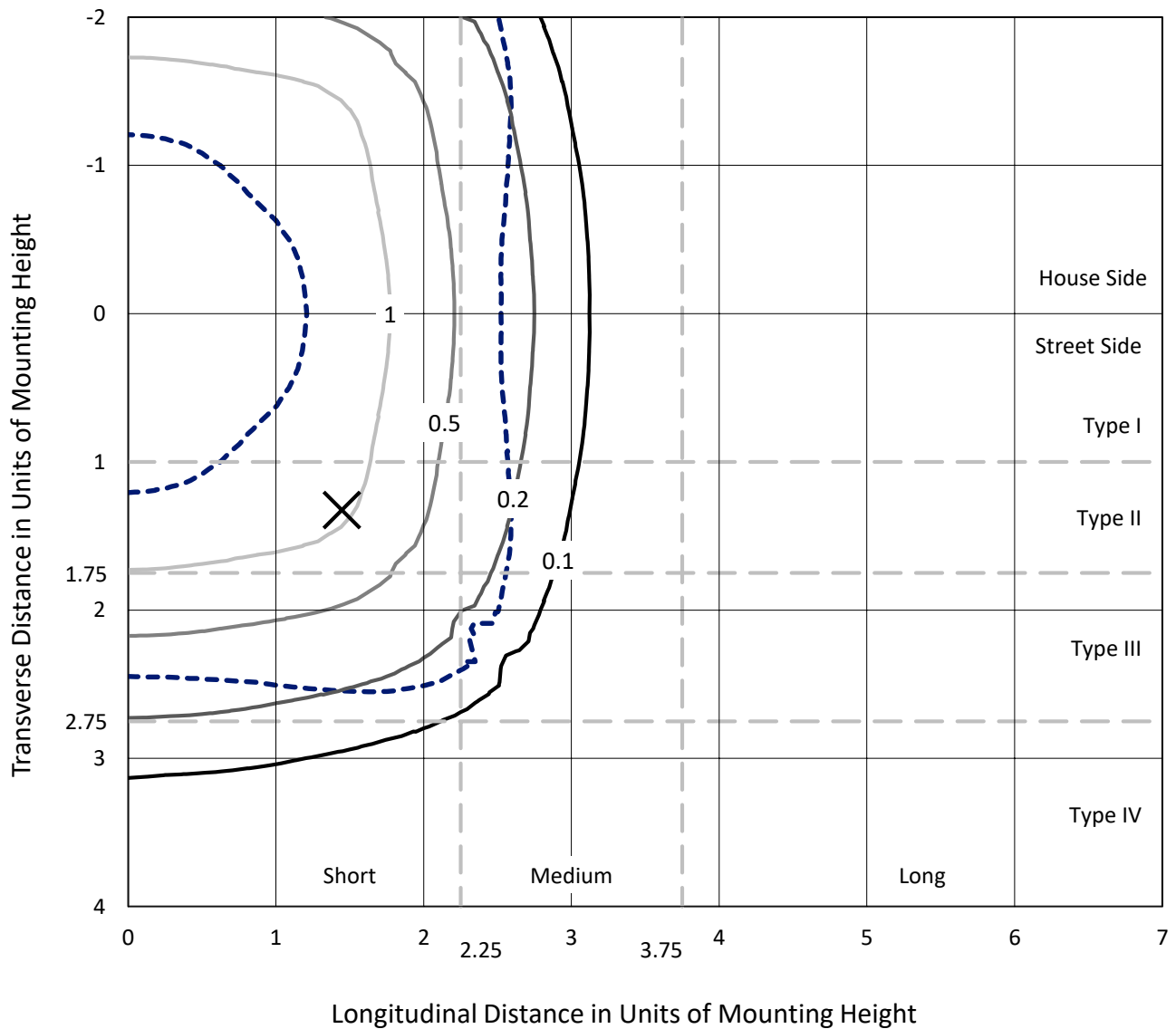
Lumens per Lamp: N/A
Luminaire Lumens: 16411.8 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 127.3
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: P157241
 CATALOG NUMBER: VTS-E05-LED-E1-5MQ-7050

Iso-Footcandle Lines of Horizontal Illumination

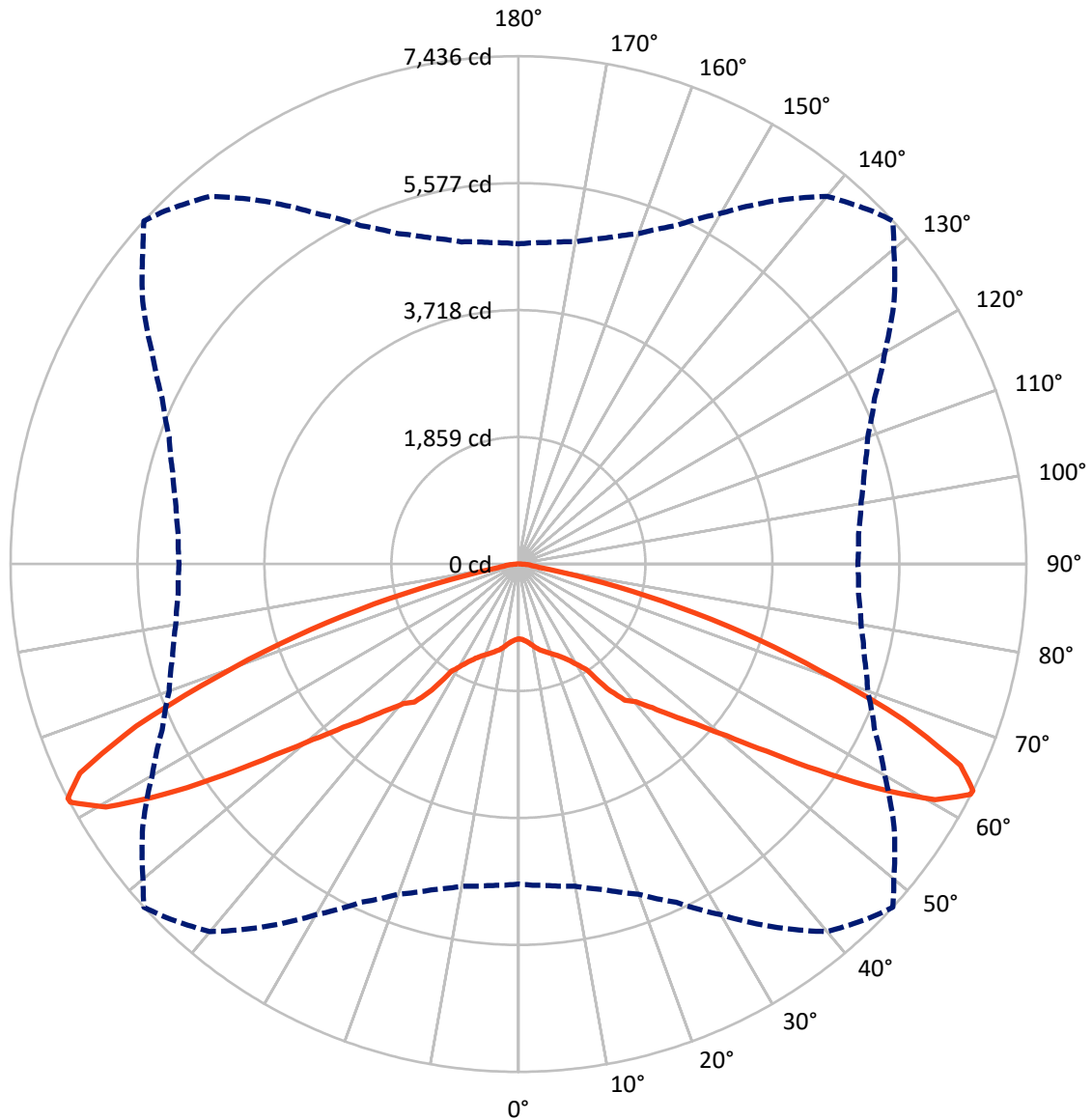
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P157241
CATALOG NUMBER: VTS-E05-LED-E1-5MQ-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8205.9 | 0.0 | 8205.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8205.9 | 0.0 | 8205.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 16411.8 | 0.0 | 16411.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 110.0 | 0.7 |
| 10°-20° | 374.0 | 2.3 |
| 20°-30° | 715.4 | 4.4 |
| 30°-40° | 1368.4 | 8.3 |
| 40°-50° | 2367.8 | 14.4 |
| 50°-60° | 4252.5 | 25.9 |
| 60°-70° | 5171.1 | 31.5 |
| 70°-80° | 1867.6 | 11.4 |
| 80°-90° | 185.0 | 1.1 |
| 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° | 16411.8 | 100.0 |
| 0°-180° | 16411.8 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P157241

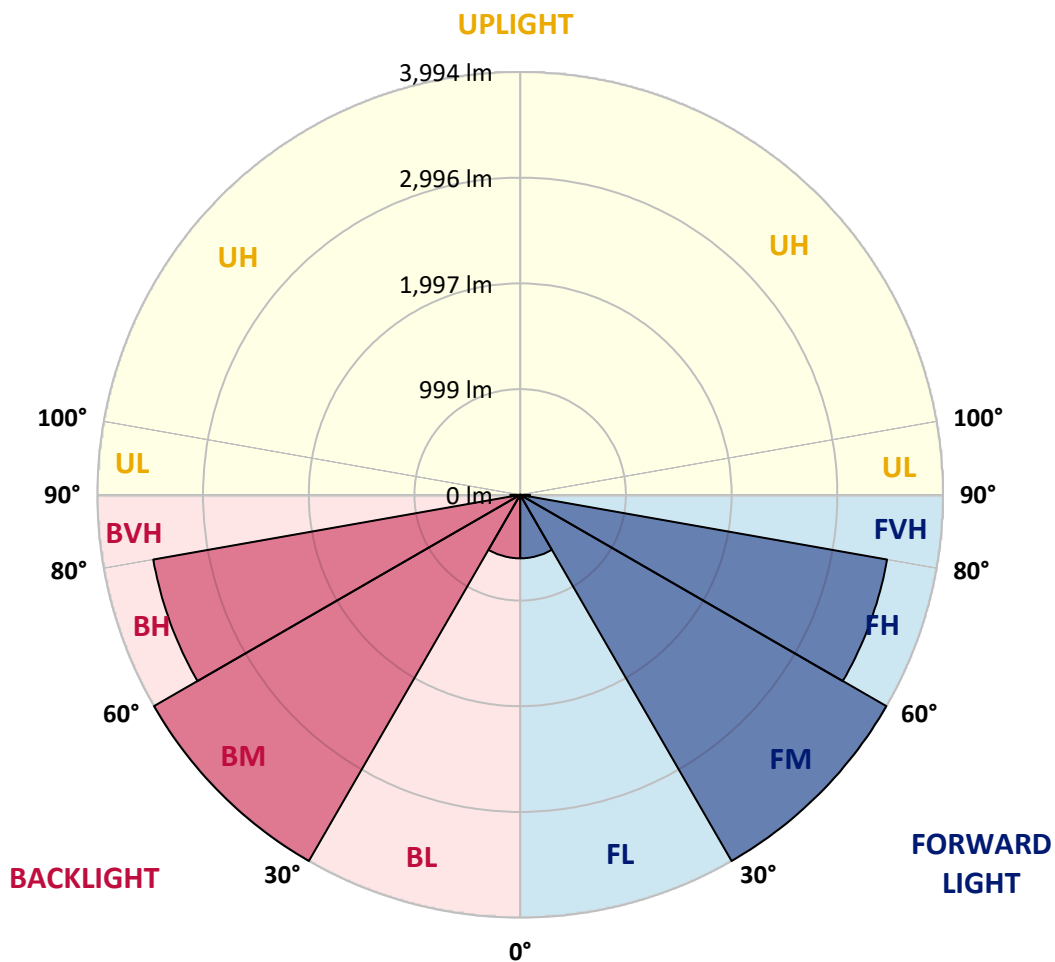
CATALOG NUMBER: VTS-E05-LED-E1-5MQ-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 599.7 | 3.7 | | | |
| FM | (30°-60°) | 3994.4 | 24.3 | | | |
| FH | (60°-80°) | 3519.3 | 21.4 | | | G2/5000 |
| FVH | (80°-90°) | 92.5 | 0.6 | | | G1/100 |
| BL | (0°-30°) | 599.7 | 3.7 | B2/1000 | | |
| BM | (30°-60°) | 3994.4 | 24.3 | B3/5000 | | |
| BH | (60°-80°) | 3519.3 | 21.4 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 92.5 | 0.6 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P157241

CATALOG NUMBER: VTS-E05-LED-E1-5MQ-7050

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 47.5° | |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1095.9 | 1095.9 | 1095.9 | 1095.9 | 1095.9 | 1095.9 | 1095.9 | 1095.9 | 1095.9 | 1095.9 | 1095.9 | 1095.9 |
| 2.5° | 1103.1 | 1101.0 | 1102.0 | 1103.1 | 1102.0 | 1101.0 | 1101.0 | 1101.0 | 1103.1 | 1101.0 | 1101.0 | 1106.1 |
| 5° | 1124.6 | 1122.6 | 1123.6 | 1123.6 | 1123.6 | 1121.5 | 1121.5 | 1121.5 | 1120.5 | 1121.5 | 1121.5 | 1132.8 |
| 7.5° | 1165.7 | 1162.6 | 1161.6 | 1163.6 | 1161.6 | 1160.5 | 1159.5 | 1159.5 | 1157.4 | 1157.4 | 1157.4 | 1171.8 |
| 10° | 1214.9 | 1210.8 | 1212.9 | 1213.9 | 1210.8 | 1208.8 | 1208.8 | 1208.8 | 1205.7 | 1204.6 | 1204.6 | 1223.1 |
| 12.5° | 1269.3 | 1267.2 | 1267.2 | 1265.2 | 1264.2 | 1262.1 | 1261.1 | 1262.1 | 1258.0 | 1258.0 | 1258.0 | 1276.5 |
| 15° | 1321.6 | 1317.5 | 1318.5 | 1315.5 | 1313.4 | 1311.4 | 1310.3 | 1309.3 | 1307.3 | 1307.3 | 1307.3 | 1318.5 |
| 17.5° | 1369.9 | 1366.8 | 1365.7 | 1362.7 | 1359.6 | 1356.5 | 1354.5 | 1353.4 | 1350.4 | 1350.4 | 1350.4 | 1360.6 |
| 20° | 1420.1 | 1417.1 | 1415.0 | 1409.9 | 1404.7 | 1401.7 | 1397.6 | 1395.5 | 1391.4 | 1392.4 | 1392.4 | 1403.7 |
| 22.5° | 1477.6 | 1472.5 | 1468.4 | 1464.3 | 1455.0 | 1448.9 | 1443.7 | 1439.6 | 1437.6 | 1437.6 | 1437.6 | 1453.0 |
| 25° | 1554.5 | 1551.5 | 1545.3 | 1532.0 | 1520.7 | 1511.5 | 1503.2 | 1499.1 | 1495.0 | 1493.0 | 1493.0 | 1516.6 |
| 27.5° | 1649.0 | 1645.9 | 1637.7 | 1624.3 | 1608.9 | 1593.5 | 1584.3 | 1577.1 | 1572.0 | 1568.9 | 1568.9 | 1602.8 |
| 30° | 1774.1 | 1769.0 | 1761.8 | 1740.3 | 1726.9 | 1703.3 | 1693.1 | 1682.8 | 1671.5 | 1674.6 | 1674.6 | 1714.6 |
| 32.5° | 2019.4 | 2012.2 | 1989.6 | 1966.0 | 1925.0 | 1893.2 | 1860.3 | 1835.7 | 1812.1 | 1809.0 | 1809.0 | 1852.1 |
| 35° | 2242.0 | 2239.0 | 2234.9 | 2218.4 | 2203.0 | 2183.6 | 2168.2 | 2142.5 | 2121.0 | 2115.8 | 2115.8 | 2236.9 |
| 37.5° | 2362.1 | 2369.3 | 2363.1 | 2361.1 | 2361.1 | 2370.3 | 2399.0 | 2427.8 | 2448.3 | 2460.6 | 2460.6 | 2528.3 |
| 40° | 2545.8 | 2545.8 | 2538.6 | 2534.5 | 2526.3 | 2538.6 | 2550.9 | 2572.4 | 2581.7 | 2582.7 | 2582.7 | 2651.5 |
| 42.5° | 2754.1 | 2755.1 | 2747.9 | 2735.6 | 2731.5 | 2742.8 | 2759.2 | 2779.7 | 2792.0 | 2795.1 | 2795.1 | 2875.1 |
| 45° | 2986.0 | 2982.9 | 2976.7 | 2972.6 | 2975.7 | 2986.0 | 3005.5 | 3045.5 | 3064.0 | 3078.3 | 3078.3 | 3165.5 |
| 47.5° | 3237.4 | 3257.9 | 3240.4 | 3243.5 | 3243.5 | 3275.3 | 3319.5 | 3352.3 | 3382.0 | 3409.7 | 3409.7 | 3502.1 |
| 50° | 3566.7 | 3569.8 | 3572.9 | 3582.1 | 3588.3 | 3630.4 | 3685.8 | 3724.8 | 3767.9 | 3803.8 | 3803.8 | 3954.6 |
| 52.5° | 4006.9 | 4000.8 | 4016.2 | 4026.4 | 4061.3 | 4083.9 | 4176.2 | 4225.5 | 4285.0 | 4331.2 | 4331.2 | 4551.8 |
| 55° | 4533.3 | 4530.3 | 4552.8 | 4561.0 | 4607.2 | 4662.6 | 4765.2 | 4873.0 | 4974.6 | 5031.0 | 5031.0 | 5332.7 |
| 57.5° | 4910.9 | 4919.1 | 4958.1 | 5012.5 | 5102.8 | 5220.8 | 5373.7 | 5611.8 | 5804.7 | 5866.2 | 5866.2 | 6198.7 |
| 60° | 4994.1 | 5020.7 | 5079.2 | 5188.0 | 5342.9 | 5562.5 | 5863.2 | 6227.4 | 6580.4 | 6698.4 | 6698.4 | 7010.4 |
| 62.5° | 4761.1 | 4791.9 | 4878.1 | 5008.4 | 5210.6 | 5535.8 | 5969.9 | 6484.0 | 7008.3 | 7271.0 | 7271.0 | 7428.0 |
| 63° | 4687.2 | 4725.2 | 4789.9 | 4940.7 | 5145.9 | 5467.1 | 5928.8 | 6482.9 | 7026.8 | 7313.1 | 7313.1 | 7436.2 |
| 65° | 4340.4 | 4347.6 | 4444.1 | 4594.9 | 4825.8 | 5159.3 | 5625.1 | 6265.4 | 6868.7 | 7199.2 | 7199.2 | 7114.0 |
| 67.5° | 3735.0 | 3764.8 | 3845.8 | 3997.7 | 4222.4 | 4569.2 | 5075.1 | 5667.2 | 6197.7 | 6461.4 | 6461.4 | 6080.7 |
| 70° | 3017.8 | 3015.7 | 3116.3 | 3238.4 | 3436.4 | 3741.2 | 4184.5 | 4719.1 | 5139.8 | 5331.6 | 5331.6 | 4694.4 |
| 72.5° | 2155.8 | 2102.5 | 2176.4 | 2311.8 | 2473.9 | 2717.1 | 3068.1 | 3483.6 | 3860.2 | 4026.4 | 4026.4 | 3432.3 |
| 75° | 982.0 | 967.6 | 1033.3 | 1167.7 | 1331.9 | 1548.4 | 1836.7 | 2195.9 | 2557.1 | 2752.0 | 2752.0 | 2186.6 |
| 77.5° | 330.4 | 334.5 | 360.2 | 408.4 | 496.6 | 605.4 | 785.0 | 1014.8 | 1307.3 | 1500.2 | 1500.2 | 1026.1 |
| 80° | 221.6 | 227.8 | 236.0 | 243.2 | 253.4 | 269.9 | 308.9 | 368.4 | 458.7 | 555.1 | 555.1 | 324.2 |
| 82.5° | 181.6 | 188.8 | 207.3 | 215.5 | 221.6 | 226.8 | 229.8 | 234.0 | 234.0 | 236.0 | 236.0 | 205.2 |
| 85° | 130.3 | 142.6 | 167.3 | 182.6 | 188.8 | 192.9 | 198.0 | 204.2 | 195.0 | 186.8 | 186.8 | 159.0 |
| 87.5° | 45.1 | 61.6 | 90.3 | 99.5 | 106.7 | 107.7 | 114.9 | 127.2 | 121.1 | 98.5 | 98.5 | 48.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P157241

CATALOG NUMBER: VTS-E05-LED-E1-5MQ-7050

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1095.9 | 1095.9 | 1095.9 | 1095.9 | 1095.9 | 1095.9 | 1095.9 | 1095.9 | 1095.9 |
| 2.5° | 1101.0 | 1100.0 | 1101.0 | 1102.0 | 1102.0 | 1102.0 | 1103.1 | 1104.1 | 1104.1 |
| 5° | 1121.5 | 1122.6 | 1121.5 | 1122.6 | 1122.6 | 1123.6 | 1123.6 | 1125.6 | 1125.6 |
| 7.5° | 1156.4 | 1158.5 | 1157.4 | 1159.5 | 1159.5 | 1161.6 | 1160.5 | 1163.6 | 1163.6 |
| 10° | 1203.6 | 1205.7 | 1207.7 | 1208.8 | 1207.7 | 1209.8 | 1211.8 | 1212.9 | 1211.8 |
| 12.5° | 1257.0 | 1258.0 | 1257.0 | 1259.0 | 1259.0 | 1261.1 | 1261.1 | 1264.2 | 1264.2 |
| 15° | 1306.2 | 1305.2 | 1304.2 | 1307.3 | 1309.3 | 1310.3 | 1312.4 | 1315.5 | 1312.4 |
| 17.5° | 1350.4 | 1351.4 | 1349.3 | 1352.4 | 1356.5 | 1359.6 | 1361.6 | 1365.7 | 1364.7 |
| 20° | 1394.5 | 1392.4 | 1394.5 | 1399.6 | 1403.7 | 1407.8 | 1411.9 | 1418.1 | 1417.1 |
| 22.5° | 1437.6 | 1439.6 | 1444.8 | 1448.9 | 1456.0 | 1462.2 | 1467.3 | 1475.5 | 1478.6 |
| 25° | 1498.1 | 1498.1 | 1506.3 | 1511.5 | 1521.7 | 1529.9 | 1541.2 | 1550.4 | 1555.6 |
| 27.5° | 1575.1 | 1575.1 | 1584.3 | 1595.6 | 1611.0 | 1625.4 | 1637.7 | 1650.0 | 1647.9 |
| 30° | 1679.7 | 1684.9 | 1693.1 | 1707.4 | 1728.0 | 1745.4 | 1761.8 | 1774.1 | 1775.2 |
| 32.5° | 1817.2 | 1823.4 | 1848.0 | 1885.0 | 1928.1 | 1960.9 | 1985.5 | 2015.3 | 2019.4 |
| 35° | 2129.2 | 2144.6 | 2176.4 | 2206.1 | 2223.6 | 2243.1 | 2255.4 | 2256.4 | 2258.5 |
| 37.5° | 2457.5 | 2430.8 | 2406.2 | 2383.6 | 2373.4 | 2371.3 | 2371.3 | 2375.4 | 2377.5 |
| 40° | 2577.6 | 2564.2 | 2553.0 | 2538.6 | 2542.7 | 2541.7 | 2548.8 | 2555.0 | 2559.1 |
| 42.5° | 2782.8 | 2772.5 | 2762.3 | 2743.8 | 2754.1 | 2751.0 | 2761.2 | 2770.5 | 2775.6 |
| 45° | 3069.1 | 3037.3 | 3014.7 | 2984.9 | 2995.2 | 2989.0 | 2989.0 | 3000.3 | 3002.4 |
| 47.5° | 3385.1 | 3348.2 | 3302.0 | 3265.1 | 3252.8 | 3241.5 | 3251.7 | 3251.7 | 3240.4 |
| 50° | 3763.8 | 3719.6 | 3665.2 | 3605.7 | 3585.2 | 3573.9 | 3578.0 | 3583.2 | 3551.4 |
| 52.5° | 4277.8 | 4228.6 | 4151.6 | 4061.3 | 4041.8 | 4032.6 | 4030.5 | 4023.4 | 4015.2 |
| 55° | 4974.6 | 4882.2 | 4787.8 | 4668.8 | 4632.9 | 4622.6 | 4623.6 | 4615.4 | 4634.9 |
| 57.5° | 5796.5 | 5661.0 | 5443.5 | 5298.8 | 5212.6 | 5179.8 | 5150.0 | 5137.7 | 5138.7 |
| 60° | 6610.2 | 6334.1 | 6008.9 | 5756.5 | 5575.9 | 5460.9 | 5370.6 | 5320.4 | 5306.0 |
| 62.5° | 7134.5 | 6700.5 | 6212.0 | 5802.6 | 5506.1 | 5316.3 | 5173.6 | 5083.3 | 5054.6 |
| 63° | 7175.6 | 6715.9 | 6193.6 | 5754.4 | 5442.5 | 5243.4 | 5093.6 | 5000.2 | 4969.4 |
| 65° | 7086.3 | 6560.9 | 5952.4 | 5429.1 | 5087.4 | 4866.8 | 4704.7 | 4616.4 | 4592.8 |
| 67.5° | 6392.6 | 5955.5 | 5335.7 | 4795.0 | 4450.2 | 4226.5 | 4040.8 | 3956.7 | 3930.0 |
| 70° | 5200.3 | 4900.7 | 4392.8 | 3931.0 | 3609.8 | 3394.4 | 3206.6 | 3136.8 | 3135.8 |
| 72.5° | 3855.1 | 3466.2 | 3163.5 | 2824.9 | 2544.7 | 2373.4 | 2210.2 | 2132.2 | 2093.3 |
| 75° | 2549.9 | 2133.3 | 1794.7 | 1509.4 | 1230.3 | 1076.4 | 892.7 | 813.7 | 767.5 |
| 77.5° | 1284.7 | 952.2 | 682.4 | 473.0 | 367.3 | 301.7 | 276.0 | 262.7 | 261.7 |
| 80° | 427.9 | 321.2 | 276.0 | 258.6 | 253.4 | 254.5 | 251.4 | 246.3 | 240.1 |
| 82.5° | 237.0 | 249.3 | 251.4 | 244.2 | 244.2 | 240.1 | 236.0 | 216.5 | 206.2 |
| 85° | 203.2 | 223.7 | 225.7 | 221.6 | 220.6 | 214.5 | 207.3 | 180.6 | 165.2 |
| 87.5° | 127.2 | 146.7 | 143.7 | 128.3 | 141.6 | 132.4 | 125.2 | 81.1 | 59.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)