

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: P157268

Luminaire Tested: **VTS-E08-LED-E1-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157268
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-E08-LED-E1-5MQ-8030
Description: VENTUS LED SITE LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (168) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

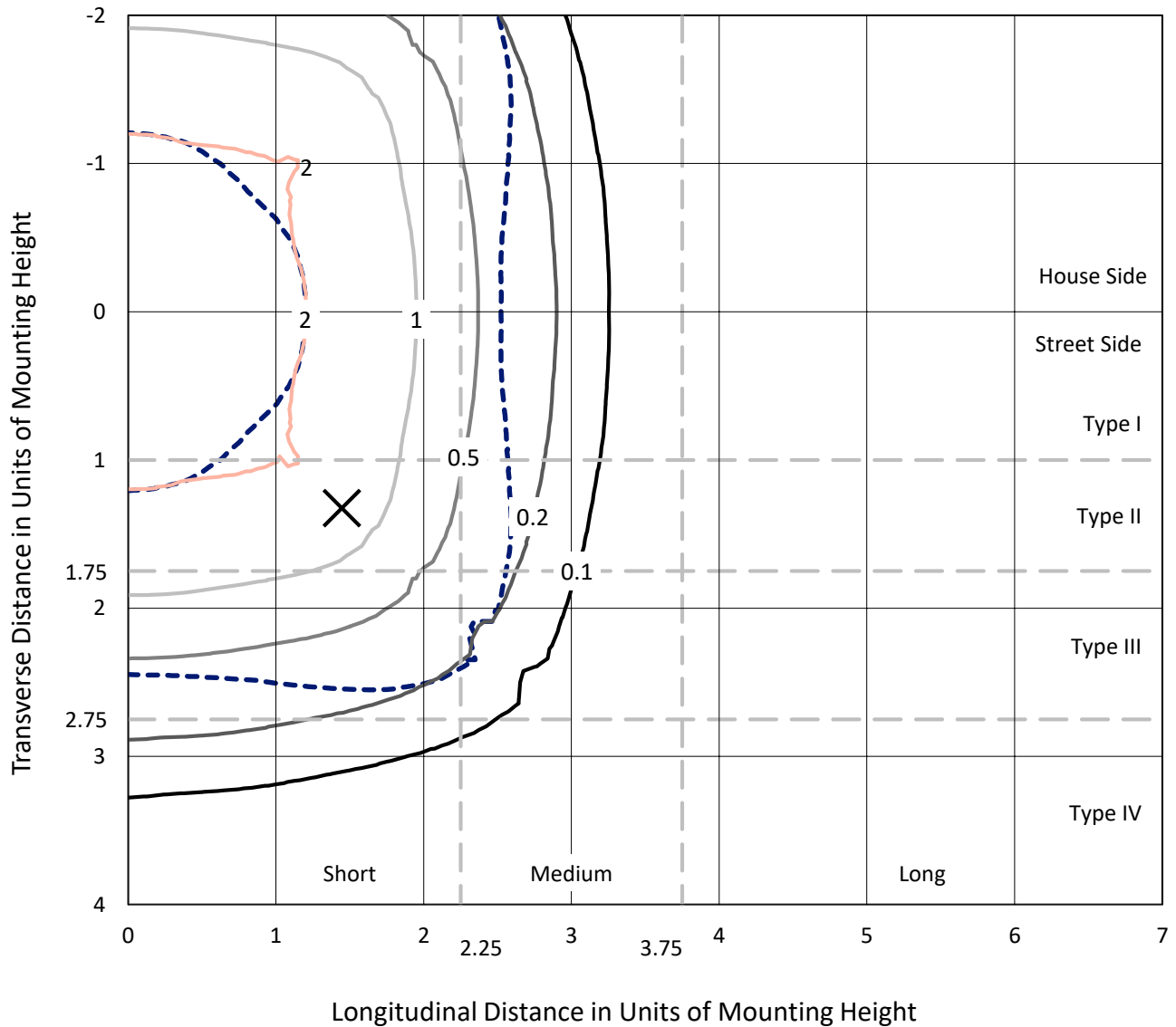
Lumens per Lamp: N/A
Luminaire Lumens: 21598.5 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 194.5
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: P157268
 CATALOG NUMBER: VTS-E08-LED-E1-5MQ-8030

Iso-Footcandle Lines of Horizontal Illumination

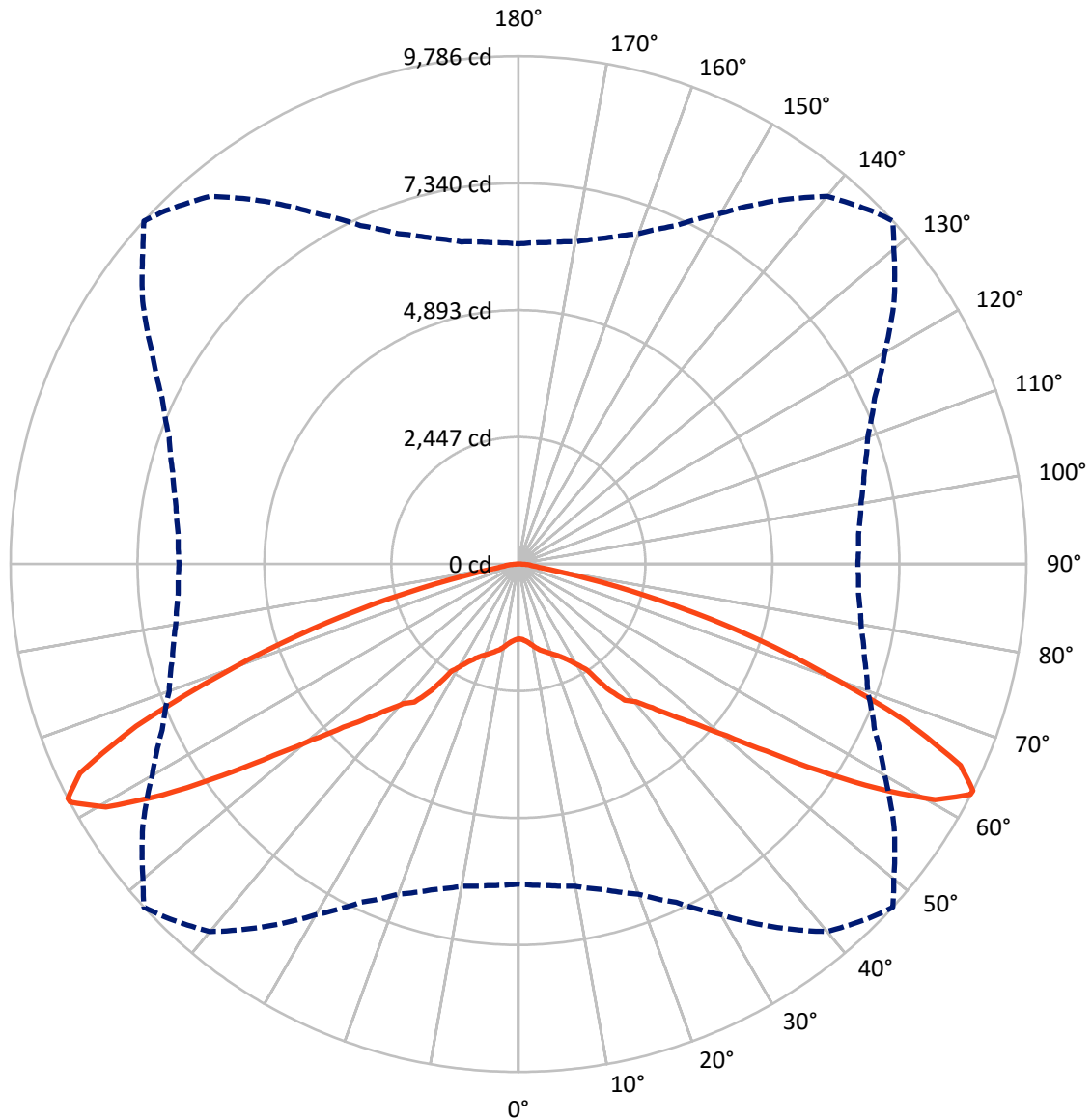
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P157268
CATALOG NUMBER: VTS-E08-LED-E1-5MQ-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P157268

CATALOG NUMBER: VTS-E08-LED-E1-5MQ-8030

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10799.2 | 0.0 | 10799.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10799.2 | 0.0 | 10799.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 21598.5 | 0.0 | 21598.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 144.8 | 0.7 |
| 10°-20° | 492.2 | 2.3 |
| 20°-30° | 941.5 | 4.4 |
| 30°-40° | 1800.9 | 8.3 |
| 40°-50° | 3116.2 | 14.4 |
| 50°-60° | 5596.5 | 25.9 |
| 60°-70° | 6805.4 | 31.5 |
| 70°-80° | 2457.7 | 11.4 |
| 80°-90° | 243.4 | 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° | 21598.5 | 100.0 |
| 0°-180° | 21598.5 | 100.0 |



REPORT NUMBER: P157268

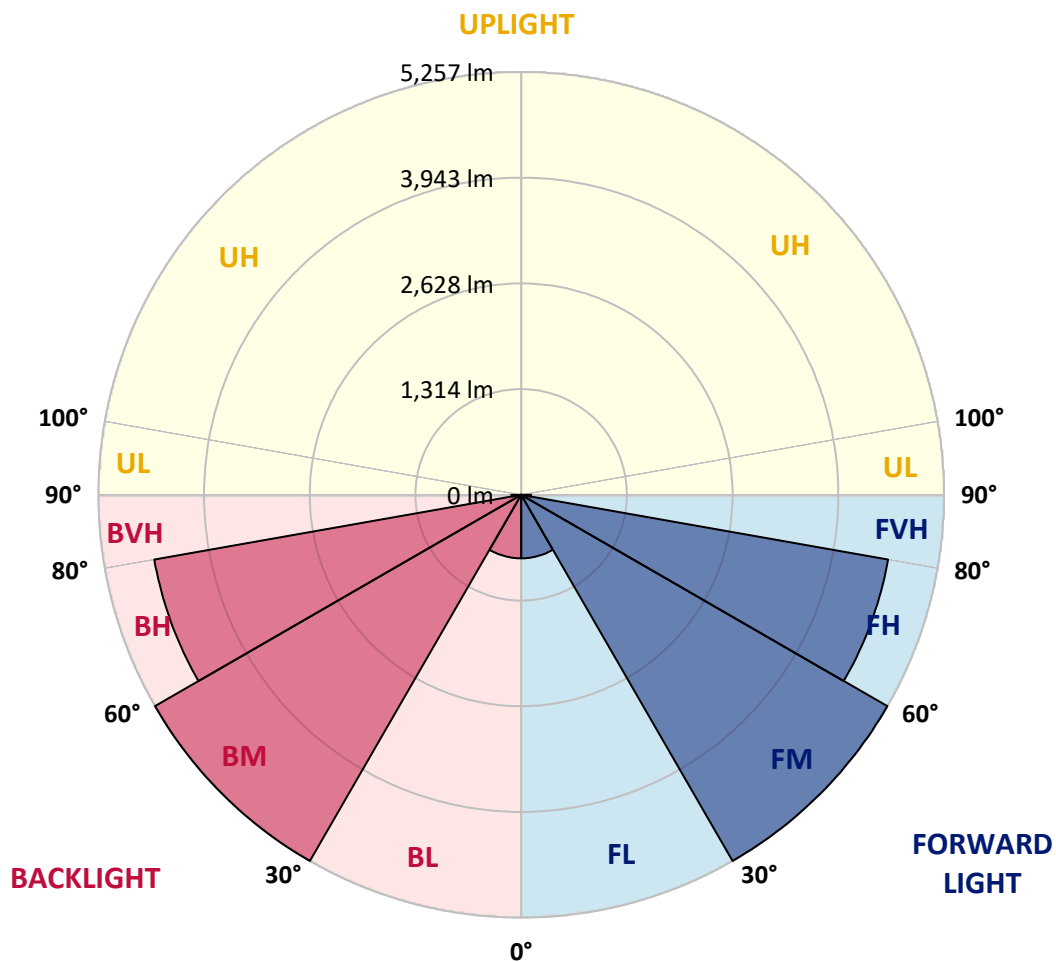
CATALOG NUMBER: VTS-E08-LED-E1-5MQ-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 789.2 | 3.7 | | | |
| FM | (30°-60°) | 5256.8 | 24.3 | | | |
| FH | (60°-80°) | 4631.6 | 21.4 | | | G2/5000 |
| FVH | (80°-90°) | 121.7 | 0.6 | | | G2/225 |
| BL | (0°-30°) | 789.2 | 3.7 | B2/1000 | | |
| BM | (30°-60°) | 5256.8 | 24.3 | B4/8500 | | |
| BH | (60°-80°) | 4631.6 | 21.4 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 121.7 | 0.6 | | | G2/225 |
| 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: P157268

CATALOG NUMBER: VTS-E08-LED-E1-5MQ-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 47.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1442.2 | 1442.2 | 1442.2 | 1442.2 | 1442.2 | 1442.2 | 1442.2 | 1442.2 | 1442.2 | 1442.2 | 1442.2 |
| 2.5° | 1451.7 | 1449.0 | 1450.3 | 1451.7 | 1450.3 | 1449.0 | 1449.0 | 1449.0 | 1451.7 | 1449.0 | 1455.7 |
| 5° | 1480.0 | 1477.3 | 1478.7 | 1478.7 | 1478.7 | 1476.0 | 1476.0 | 1476.0 | 1474.6 | 1476.0 | 1490.8 |
| 7.5° | 1534.0 | 1530.0 | 1528.6 | 1531.3 | 1528.6 | 1527.3 | 1525.9 | 1525.9 | 1523.2 | 1523.2 | 1542.1 |
| 10° | 1598.9 | 1593.5 | 1596.2 | 1597.5 | 1593.5 | 1590.8 | 1590.8 | 1590.8 | 1586.7 | 1585.4 | 1609.7 |
| 12.5° | 1670.4 | 1667.7 | 1667.7 | 1665.0 | 1663.7 | 1661.0 | 1659.6 | 1661.0 | 1655.6 | 1655.6 | 1679.9 |
| 15° | 1739.3 | 1733.9 | 1735.2 | 1731.2 | 1728.5 | 1725.8 | 1724.4 | 1723.1 | 1720.4 | 1720.4 | 1735.2 |
| 17.5° | 1802.8 | 1798.7 | 1797.4 | 1793.3 | 1789.3 | 1785.2 | 1782.5 | 1781.2 | 1777.1 | 1777.1 | 1790.6 |
| 20° | 1868.9 | 1864.9 | 1862.2 | 1855.4 | 1848.7 | 1844.6 | 1839.2 | 1836.5 | 1831.1 | 1832.5 | 1847.3 |
| 22.5° | 1944.6 | 1937.8 | 1932.4 | 1927.0 | 1914.8 | 1906.7 | 1900.0 | 1894.6 | 1891.9 | 1891.9 | 1912.1 |
| 25° | 2045.8 | 2041.8 | 2033.7 | 2016.1 | 2001.3 | 1989.1 | 1978.3 | 1972.9 | 1967.5 | 1964.8 | 1995.9 |
| 27.5° | 2170.1 | 2166.0 | 2155.2 | 2137.7 | 2117.4 | 2097.1 | 2085.0 | 2075.5 | 2068.8 | 2064.7 | 2109.3 |
| 30° | 2334.8 | 2328.1 | 2318.6 | 2290.3 | 2272.7 | 2241.6 | 2228.1 | 2214.6 | 2199.8 | 2203.8 | 2256.5 |
| 32.5° | 2657.6 | 2648.1 | 2618.4 | 2587.3 | 2533.3 | 2491.5 | 2448.2 | 2415.8 | 2384.8 | 2380.7 | 2437.4 |
| 35° | 2950.6 | 2946.5 | 2941.1 | 2919.5 | 2899.3 | 2873.6 | 2853.4 | 2819.6 | 2791.2 | 2784.5 | 2943.8 |
| 37.5° | 3108.6 | 3118.0 | 3109.9 | 3107.2 | 3107.2 | 3119.4 | 3157.2 | 3195.0 | 3222.0 | 3238.2 | 3327.3 |
| 40° | 3350.3 | 3350.3 | 3340.9 | 3335.5 | 3324.6 | 3340.9 | 3357.1 | 3385.4 | 3397.6 | 3398.9 | 3489.4 |
| 42.5° | 3624.4 | 3625.8 | 3616.3 | 3600.1 | 3594.7 | 3609.6 | 3631.2 | 3658.2 | 3674.4 | 3678.5 | 3783.8 |
| 45° | 3929.6 | 3925.6 | 3917.5 | 3912.1 | 3916.1 | 3929.6 | 3955.3 | 4007.9 | 4032.3 | 4051.2 | 4165.9 |
| 47.5° | 4260.5 | 4287.5 | 4264.5 | 4268.6 | 4268.6 | 4310.4 | 4368.5 | 4411.7 | 4450.9 | 4487.3 | 4608.9 |
| 50° | 4693.9 | 4698.0 | 4702.0 | 4714.2 | 4722.3 | 4777.7 | 4850.6 | 4901.9 | 4958.6 | 5005.9 | 5204.4 |
| 52.5° | 5273.3 | 5265.2 | 5285.4 | 5298.9 | 5344.8 | 5374.5 | 5496.1 | 5560.9 | 5639.2 | 5700.0 | 5990.3 |
| 55° | 5966.0 | 5962.0 | 5991.7 | 6002.5 | 6063.2 | 6136.2 | 6271.2 | 6413.0 | 6546.7 | 6620.9 | 7018.0 |
| 57.5° | 6462.9 | 6473.7 | 6525.1 | 6596.6 | 6715.5 | 6870.8 | 7072.0 | 7385.3 | 7639.1 | 7720.2 | 8157.7 |
| 60° | 6572.3 | 6607.4 | 6684.4 | 6827.5 | 7031.5 | 7320.4 | 7716.1 | 8195.5 | 8660.0 | 8815.3 | 9225.8 |
| 62.5° | 6265.8 | 6306.3 | 6419.7 | 6591.2 | 6857.3 | 7285.3 | 7856.5 | 8533.1 | 9223.1 | 9568.8 | 9775.4 |
| 63° | 6168.6 | 6218.5 | 6303.6 | 6502.1 | 6772.2 | 7194.9 | 7802.5 | 8531.7 | 9247.4 | 9624.2 | 9786.2 |
| 65° | 5712.1 | 5721.6 | 5848.5 | 6047.0 | 6350.9 | 6789.7 | 7402.8 | 8245.5 | 9039.5 | 9474.3 | 9362.2 |
| 67.5° | 4915.4 | 4954.6 | 5061.2 | 5261.1 | 5556.8 | 6013.3 | 6679.0 | 7458.2 | 8156.3 | 8503.4 | 8002.4 |
| 70° | 3971.5 | 3968.8 | 4101.1 | 4261.8 | 4522.4 | 4923.5 | 5506.9 | 6210.4 | 6764.1 | 7016.6 | 6178.0 |
| 72.5° | 2837.2 | 2766.9 | 2864.2 | 3042.4 | 3255.8 | 3575.8 | 4037.7 | 4584.6 | 5080.2 | 5298.9 | 4517.0 |
| 75° | 1292.3 | 1273.4 | 1359.8 | 1536.7 | 1752.8 | 2037.7 | 2417.2 | 2889.8 | 3365.2 | 3621.7 | 2877.7 |
| 77.5° | 434.8 | 440.2 | 474.0 | 537.5 | 653.6 | 796.7 | 1033.0 | 1335.5 | 1720.4 | 1974.3 | 1350.4 |
| 80° | 291.7 | 299.8 | 310.6 | 320.0 | 333.5 | 355.2 | 406.5 | 484.8 | 603.6 | 730.6 | 426.7 |
| 82.5° | 239.0 | 248.5 | 272.8 | 283.6 | 291.7 | 298.4 | 302.5 | 307.9 | 307.9 | 310.6 | 270.1 |
| 85° | 171.5 | 187.7 | 220.1 | 240.4 | 248.5 | 253.9 | 260.6 | 268.7 | 256.6 | 245.8 | 209.3 |
| 87.5° | 59.4 | 81.0 | 118.8 | 131.0 | 140.4 | 141.8 | 151.2 | 167.4 | 159.3 | 129.6 | 63.5 |
| 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: P157268
 CATALOG NUMBER: VTS-E08-LED-E1-5MQ-8030

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1442.2 | 1442.2 | 1442.2 | 1442.2 | 1442.2 | 1442.2 | 1442.2 | 1442.2 | 1442.2 |
| 2.5° | 1449.0 | 1447.6 | 1449.0 | 1450.3 | 1450.3 | 1450.3 | 1451.7 | 1453.0 | 1453.0 |
| 5° | 1476.0 | 1477.3 | 1476.0 | 1477.3 | 1477.3 | 1478.7 | 1478.7 | 1481.4 | 1481.4 |
| 7.5° | 1521.9 | 1524.6 | 1523.2 | 1525.9 | 1525.9 | 1528.6 | 1527.3 | 1531.3 | 1531.3 |
| 10° | 1584.0 | 1586.7 | 1589.4 | 1590.8 | 1589.4 | 1592.1 | 1594.8 | 1596.2 | 1594.8 |
| 12.5° | 1654.2 | 1655.6 | 1654.2 | 1656.9 | 1656.9 | 1659.6 | 1659.6 | 1663.7 | 1663.7 |
| 15° | 1719.0 | 1717.7 | 1716.3 | 1720.4 | 1723.1 | 1724.4 | 1727.1 | 1731.2 | 1727.1 |
| 17.5° | 1777.1 | 1778.5 | 1775.8 | 1779.8 | 1785.2 | 1789.3 | 1792.0 | 1797.4 | 1796.0 |
| 20° | 1835.2 | 1832.5 | 1835.2 | 1841.9 | 1847.3 | 1852.7 | 1858.1 | 1866.2 | 1864.9 |
| 22.5° | 1891.9 | 1894.6 | 1901.3 | 1906.7 | 1916.2 | 1924.3 | 1931.1 | 1941.9 | 1945.9 |
| 25° | 1971.6 | 1971.6 | 1982.4 | 1989.1 | 2002.6 | 2013.4 | 2028.3 | 2040.4 | 2047.2 |
| 27.5° | 2072.8 | 2072.8 | 2085.0 | 2099.8 | 2120.1 | 2139.0 | 2155.2 | 2171.4 | 2168.7 |
| 30° | 2210.6 | 2217.3 | 2228.1 | 2247.0 | 2274.0 | 2297.0 | 2318.6 | 2334.8 | 2336.2 |
| 32.5° | 2391.5 | 2399.6 | 2432.0 | 2480.7 | 2537.4 | 2580.6 | 2613.0 | 2652.2 | 2657.6 |
| 35° | 2802.0 | 2822.3 | 2864.2 | 2903.3 | 2926.3 | 2951.9 | 2968.1 | 2969.5 | 2972.2 |
| 37.5° | 3234.2 | 3199.1 | 3166.7 | 3136.9 | 3123.4 | 3120.7 | 3120.7 | 3126.1 | 3128.8 |
| 40° | 3392.2 | 3374.6 | 3359.8 | 3340.9 | 3346.3 | 3344.9 | 3354.4 | 3362.5 | 3367.9 |
| 42.5° | 3662.2 | 3648.7 | 3635.2 | 3610.9 | 3624.4 | 3620.4 | 3633.9 | 3646.0 | 3652.8 |
| 45° | 4039.0 | 3997.1 | 3967.4 | 3928.3 | 3941.8 | 3933.7 | 3933.7 | 3948.5 | 3951.2 |
| 47.5° | 4454.9 | 4406.3 | 4345.5 | 4296.9 | 4280.7 | 4265.9 | 4279.4 | 4279.4 | 4264.5 |
| 50° | 4953.2 | 4895.1 | 4823.6 | 4745.3 | 4718.2 | 4703.4 | 4708.8 | 4715.5 | 4673.7 |
| 52.5° | 5629.8 | 5564.9 | 5463.7 | 5344.8 | 5319.2 | 5307.0 | 5304.3 | 5294.9 | 5284.1 |
| 55° | 6546.7 | 6425.1 | 6300.9 | 6144.3 | 6097.0 | 6083.5 | 6084.8 | 6074.0 | 6099.7 |
| 57.5° | 7628.3 | 7450.1 | 7163.8 | 6973.4 | 6860.0 | 6816.7 | 6777.6 | 6761.4 | 6762.7 |
| 60° | 8699.2 | 8335.9 | 7907.9 | 7575.7 | 7338.0 | 7186.8 | 7067.9 | 7001.7 | 6982.8 |
| 62.5° | 9389.2 | 8818.0 | 8175.2 | 7636.4 | 7246.2 | 6996.3 | 6808.6 | 6689.8 | 6652.0 |
| 63° | 9443.2 | 8838.3 | 8150.9 | 7573.0 | 7162.4 | 6900.5 | 6703.3 | 6580.4 | 6539.9 |
| 65° | 9325.8 | 8634.4 | 7833.6 | 7144.9 | 6695.2 | 6404.9 | 6191.5 | 6075.4 | 6044.3 |
| 67.5° | 8412.9 | 7837.6 | 7022.0 | 6310.4 | 5856.6 | 5562.2 | 5317.8 | 5207.1 | 5172.0 |
| 70° | 6843.8 | 6449.4 | 5781.0 | 5173.3 | 4750.7 | 4467.1 | 4220.0 | 4128.1 | 4126.8 |
| 72.5° | 5073.4 | 4561.6 | 4163.2 | 3717.6 | 3349.0 | 3123.4 | 2908.7 | 2806.1 | 2754.8 |
| 75° | 3355.7 | 2807.5 | 2361.8 | 1986.4 | 1619.1 | 1416.6 | 1174.8 | 1070.9 | 1010.1 |
| 77.5° | 1690.7 | 1253.2 | 898.0 | 622.5 | 483.4 | 397.0 | 363.3 | 345.7 | 344.3 |
| 80° | 563.1 | 422.7 | 363.3 | 340.3 | 333.5 | 334.9 | 330.8 | 324.1 | 316.0 |
| 82.5° | 311.9 | 328.1 | 330.8 | 321.4 | 321.4 | 316.0 | 310.6 | 284.9 | 271.4 |
| 85° | 267.4 | 294.4 | 297.1 | 291.7 | 290.3 | 282.2 | 272.8 | 237.7 | 217.4 |
| 87.5° | 167.4 | 193.1 | 189.1 | 168.8 | 186.4 | 174.2 | 164.7 | 106.7 | 78.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)