

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: P165449

Luminaire Tested: **VTS-E12-LED-E1-SL4-HSS-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165449
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-E12-LED-E1-SL4-HSS-7060
Description: VENTUS LED SITE LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (252) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

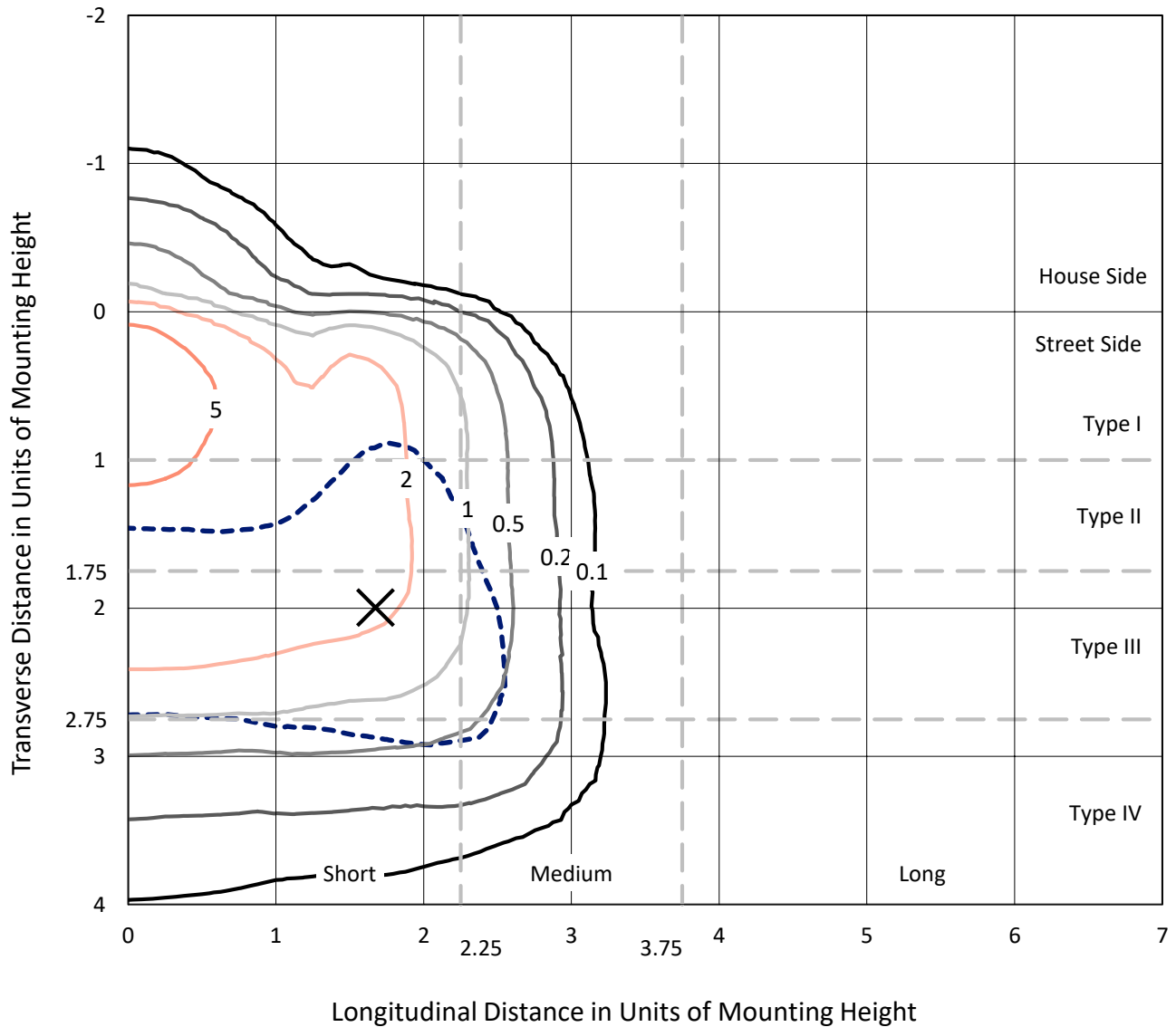
Lumens per Lamp: N/A
Luminaire Lumens: 24755.7 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G5

Input Watts (W): 291.7
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: P165449
 CATALOG NUMBER: VTS-E12-LED-E1-SL4-HSS-7060

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

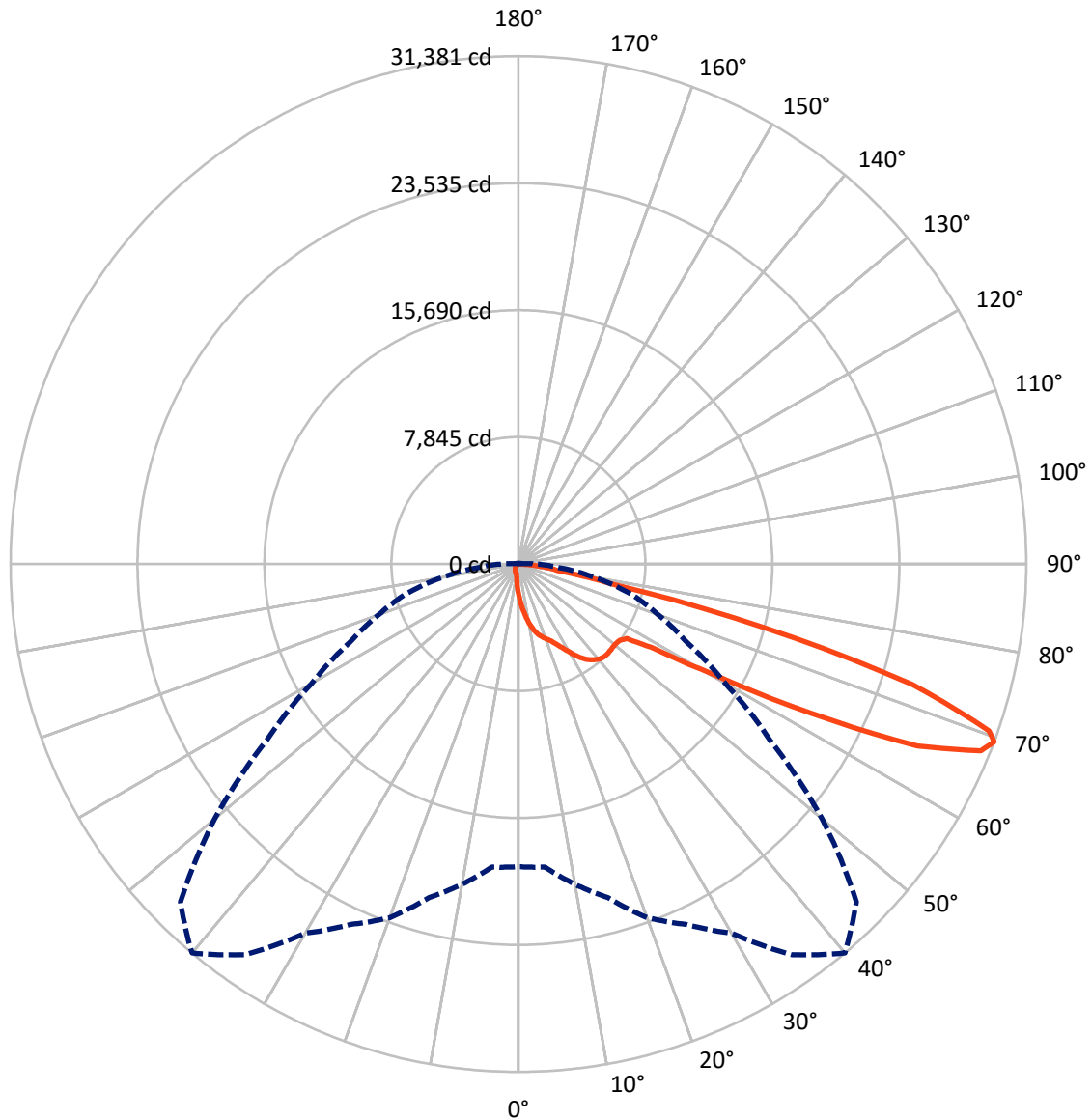


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P165449

CATALOG NUMBER: VTS-E12-LED-E1-SL4-HSS-7060

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P165449

CATALOG NUMBER: VTS-E12-LED-E1-SL4-HSS-7060

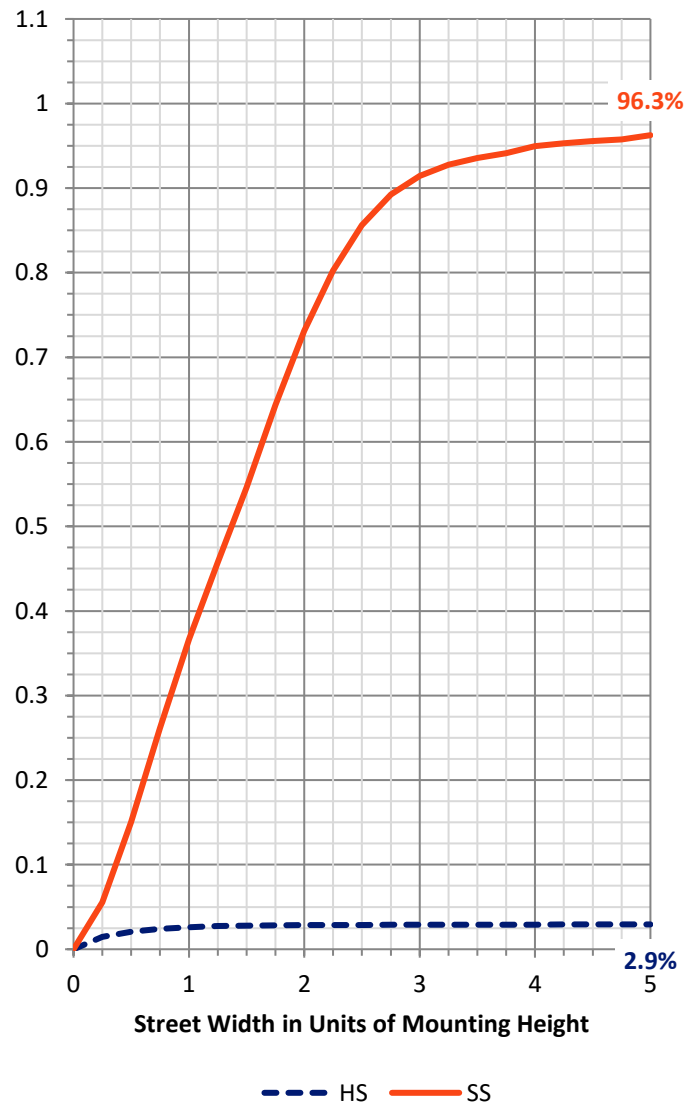
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 737.2 | 0.0 | 737.2 |
| | % Fixture | 3.0 | 0.0 | 3.0 |
| Street Side | Lumens | 24018.5 | 0.0 | 24018.5 |
| | % Fixture | 97.0 | 0.0 | 97.0 |
| Total | Lumens | 24755.7 | 0.0 | 24755.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 192.2 | 0.8 |
| 10°-20° | 662.5 | 2.7 |
| 20°-30° | 1268.0 | 5.1 |
| 30°-40° | 2108.8 | 8.5 |
| 40°-50° | 2853.5 | 11.5 |
| 50°-60° | 4462.5 | 18.0 |
| 60°-70° | 9174.9 | 37.1 |
| 70°-80° | 3691.8 | 14.9 |
| 80°-90° | 341.5 | 1.4 |
| 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° | 24755.7 | 100.0 |
| 0°-180° | 24755.7 | 100.0 |



REPORT NUMBER: P165449

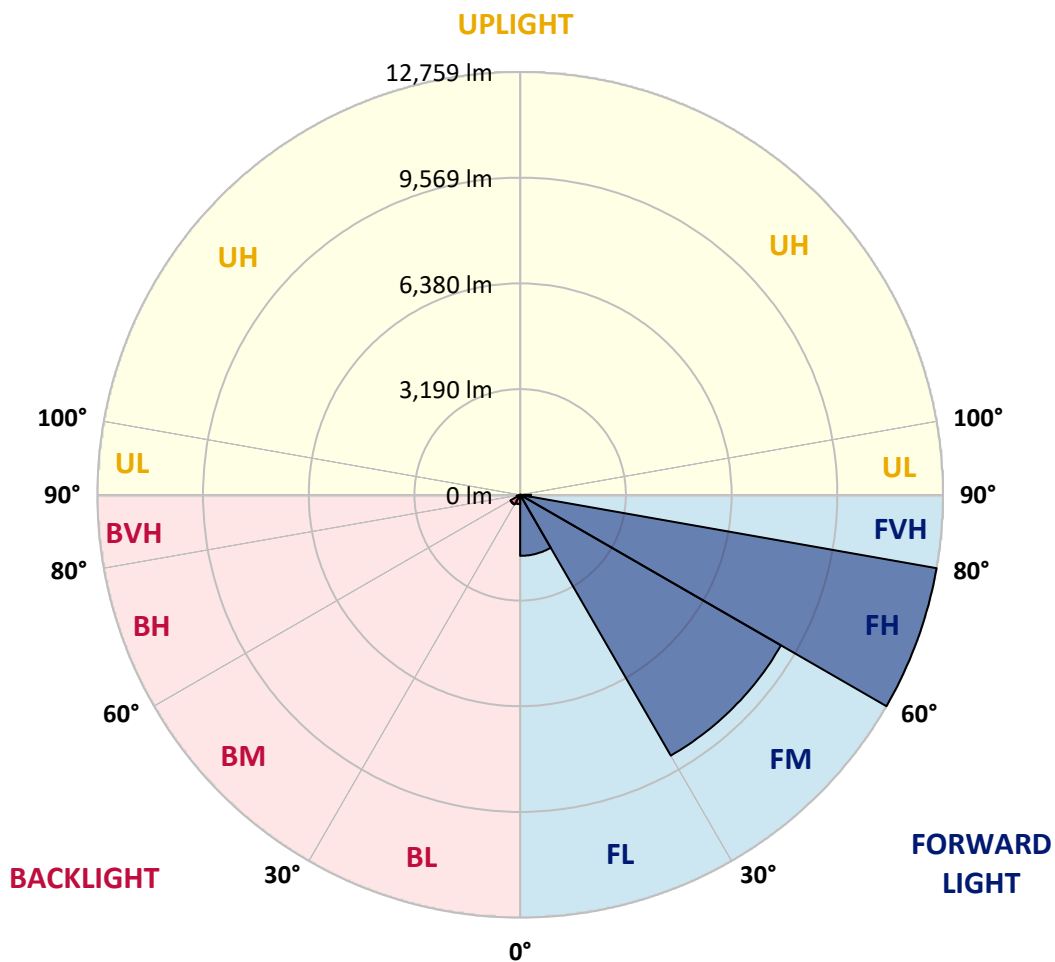
CATALOG NUMBER: VTS-E12-LED-E1-SL4-HSS-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 1842.3 | 7.4 | | | |
| FM | (30°-60°) | 9088.2 | 36.7 | | | |
| FH | (60°-80°) | 12759.2 | 51.5 | | | G5 |
| FVH | (80°-90°) | 328.8 | 1.3 | | | G3/500 |
| BL | (0°-30°) | 280.4 | 1.1 | B1/500 | | |
| BM | (30°-60°) | 336.6 | 1.4 | B1/1000 | | |
| BH | (60°-80°) | 107.5 | 0.4 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 12.7 | 0.1 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G5

Type IV Short





REPORT NUMBER: P165449

CATALOG NUMBER: VTS-E12-LED-E1-SL4-HSS-7060

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1869.6 | 1869.6 | 1869.6 | 1869.6 | 1869.6 | 1869.6 | 1869.6 | 1869.6 | 1869.6 | 1869.6 | 1869.6 |
| 2.5° | 2494.2 | 2465.6 | 2433.1 | 2433.1 | 2392.7 | 2392.7 | 2368.3 | 2303.6 | 2295.4 | 2258.7 | 2222.3 |
| 5° | 3183.5 | 3159.1 | 3118.7 | 3082.0 | 3049.7 | 2992.9 | 2952.2 | 2875.1 | 2790.2 | 2708.9 | 2636.0 |
| 7.5° | 3856.8 | 3844.4 | 3771.6 | 3759.2 | 3706.5 | 3613.5 | 3532.2 | 3418.7 | 3272.6 | 3159.1 | 3025.4 |
| 10° | 4481.3 | 4452.7 | 4436.5 | 4367.5 | 4290.7 | 4189.2 | 4063.4 | 3925.7 | 3755.3 | 3576.8 | 3386.1 |
| 12.5° | 4976.0 | 4959.8 | 4886.6 | 4858.3 | 4777.3 | 4675.8 | 4517.7 | 4339.2 | 4169.0 | 3937.8 | 3714.7 |
| 15° | 5344.9 | 5316.6 | 5267.9 | 5223.3 | 5126.0 | 5036.9 | 4890.8 | 4696.0 | 4489.4 | 4238.0 | 3970.3 |
| 17.5° | 5653.3 | 5600.6 | 5588.3 | 5519.3 | 5418.1 | 5312.4 | 5150.4 | 4971.9 | 4728.5 | 4477.1 | 4185.0 |
| 20° | 6066.7 | 5993.9 | 5969.5 | 5868.0 | 5750.5 | 5604.5 | 5418.1 | 5195.0 | 4939.3 | 4663.8 | 4363.6 |
| 22.5° | 6553.4 | 6500.7 | 6448.0 | 6358.8 | 6208.8 | 6002.0 | 5730.3 | 5487.0 | 5162.5 | 4858.3 | 4534.0 |
| 25° | 7242.9 | 7198.3 | 7113.1 | 6991.5 | 6804.8 | 6557.6 | 6229.0 | 5872.2 | 5491.0 | 5101.6 | 4720.4 |
| 27.5° | 7912.0 | 7871.4 | 7810.6 | 7717.5 | 7506.4 | 7234.8 | 6829.2 | 6375.1 | 5892.4 | 5422.0 | 5000.2 |
| 30° | 8540.7 | 8504.0 | 8443.2 | 8350.1 | 8163.4 | 7895.8 | 7437.5 | 6950.8 | 6350.7 | 5803.2 | 5296.4 |
| 32.5° | 9218.0 | 9205.6 | 9136.7 | 9003.0 | 8840.7 | 8479.9 | 7981.0 | 7457.9 | 6849.6 | 6217.0 | 5624.7 |
| 35° | 9984.3 | 9891.0 | 9826.2 | 9692.3 | 9416.7 | 9031.3 | 8447.4 | 7875.6 | 7234.8 | 6585.9 | 5924.9 |
| 37.5° | 10633.2 | 10544.1 | 10462.8 | 10292.7 | 9956.0 | 9465.2 | 8804.2 | 8175.5 | 7514.5 | 6853.6 | 6180.3 |
| 40° | 11107.6 | 11063.0 | 10965.7 | 10742.6 | 10365.6 | 9781.7 | 9067.7 | 8382.4 | 7717.5 | 7052.3 | 6387.1 |
| 42.5° | 11460.4 | 11391.5 | 11282.2 | 11050.9 | 10604.9 | 9939.8 | 9173.1 | 8467.6 | 7810.6 | 7174.0 | 6521.1 |
| 45° | 11590.2 | 11533.6 | 11432.1 | 11180.7 | 10698.0 | 9984.3 | 9169.2 | 8443.2 | 7814.7 | 7210.4 | 6610.3 |
| 47.5° | 11513.1 | 11456.5 | 11367.1 | 11131.9 | 10657.6 | 9931.6 | 9096.3 | 8374.3 | 7774.1 | 7222.7 | 6691.3 |
| 50° | 11257.8 | 11225.3 | 11156.3 | 10957.6 | 10531.8 | 9830.2 | 9031.3 | 8337.8 | 7766.0 | 7283.5 | 6804.8 |
| 52.5° | 11233.4 | 11213.2 | 11128.0 | 10929.3 | 10495.3 | 9797.7 | 9023.2 | 8358.2 | 7834.9 | 7360.6 | 6886.1 |
| 55° | 13727.3 | 13439.4 | 12794.7 | 12247.3 | 11346.9 | 10276.4 | 9432.7 | 8686.5 | 8127.0 | 7664.8 | 7332.1 |
| 57.5° | 19510.4 | 19080.6 | 18233.0 | 17190.8 | 15122.4 | 13090.7 | 11464.6 | 10288.5 | 9708.5 | 9497.7 | 9623.3 |
| 60° | 22219.3 | 22142.5 | 22008.5 | 21513.7 | 20455.3 | 18707.5 | 16760.8 | 14656.2 | 13812.5 | 13739.6 | 13995.0 |
| 62.5° | 23505.0 | 23456.3 | 23496.9 | 23436.1 | 23107.6 | 22596.6 | 22036.8 | 21128.6 | 20293.0 | 19753.7 | 18610.0 |
| 65° | 24097.1 | 24129.6 | 24360.6 | 24543.0 | 24583.7 | 24717.4 | 25127.2 | 26258.5 | 27085.7 | 25694.8 | 22519.5 |
| 67.5° | 22592.4 | 22783.0 | 23314.4 | 23979.3 | 24758.0 | 25512.3 | 26728.9 | 29113.5 | 30812.7 | 29178.5 | 24668.9 |
| 69° | 18703.4 | 18796.7 | 20094.3 | 21347.5 | 23249.4 | 24579.7 | 26343.7 | 29470.3 | 31380.6 | 29535.3 | 24498.5 |
| 70° | 14724.9 | 14810.1 | 16201.3 | 17904.5 | 21120.5 | 22831.7 | 25139.3 | 28866.2 | 30849.2 | 29060.8 | 23622.5 |
| 72.5° | 6642.8 | 6521.1 | 7011.7 | 7924.1 | 11419.8 | 14137.1 | 18172.2 | 23387.3 | 25451.5 | 23281.9 | 17673.2 |
| 75° | 4639.4 | 4586.7 | 4639.4 | 4643.3 | 5186.8 | 6691.3 | 8443.2 | 12677.0 | 15678.0 | 13528.8 | 8443.2 |
| 77.5° | 3593.0 | 3556.6 | 3520.1 | 3479.5 | 3544.5 | 3970.3 | 4140.5 | 4497.3 | 5839.7 | 5523.5 | 3219.9 |
| 80° | 2842.9 | 2810.4 | 2899.5 | 2871.2 | 2871.2 | 2920.0 | 2887.5 | 2753.5 | 2502.1 | 2319.6 | 2076.3 |
| 82.5° | 1322.0 | 1330.1 | 1330.1 | 1443.6 | 1739.9 | 2031.7 | 2125.0 | 1991.3 | 1768.2 | 1504.4 | 1212.6 |
| 85° | 125.6 | 141.8 | 239.4 | 369.2 | 734.1 | 827.2 | 831.4 | 689.3 | 689.3 | 543.5 | 437.9 |
| 87.5° | 0.0 | 3.9 | 3.9 | 3.9 | 36.4 | 101.5 | 85.2 | 24.4 | 12.1 | 12.1 | 20.2 |
| 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: P165449

CATALOG NUMBER: VTS-E12-LED-E1-SL4-HSS-7060

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 0° | 1869.6 | 1869.6 | 1869.6 | 1869.6 | 1869.6 | 1869.6 | 1869.6 | 1869.6 | 1869.6 | 1869.6 | 1869.6 |
| 2.5° | 2157.5 | 2145.2 | 2096.7 | 2047.9 | 2003.4 | 1954.6 | 1910.0 | 1865.5 | 1816.7 | 1780.3 | 1735.7 |
| 5° | 2522.5 | 2433.1 | 2331.9 | 2234.6 | 2137.1 | 2035.9 | 1930.5 | 1837.1 | 1739.9 | 1650.5 | 1565.3 |
| 7.5° | 2891.4 | 2717.0 | 2579.1 | 2404.8 | 2246.7 | 2088.6 | 1942.5 | 1792.6 | 1654.7 | 1524.9 | 1403.2 |
| 10° | 3203.7 | 2992.9 | 2777.9 | 2555.0 | 2327.7 | 2116.9 | 1914.2 | 1735.7 | 1553.2 | 1395.1 | 1245.1 |
| 12.5° | 3459.3 | 3191.6 | 2928.1 | 2648.1 | 2392.7 | 2125.0 | 1873.6 | 1658.6 | 1443.6 | 1265.3 | 1111.1 |
| 15° | 3690.3 | 3382.2 | 3065.8 | 2741.4 | 2417.1 | 2113.0 | 1833.0 | 1565.3 | 1346.3 | 1143.7 | 969.3 |
| 17.5° | 3877.0 | 3524.1 | 3167.2 | 2802.3 | 2453.5 | 2096.7 | 1780.3 | 1500.5 | 1245.1 | 1034.1 | 863.9 |
| 20° | 4039.2 | 3670.1 | 3284.9 | 2875.1 | 2477.9 | 2092.5 | 1735.7 | 1419.5 | 1155.7 | 932.9 | 766.4 |
| 22.5° | 4189.2 | 3820.1 | 3406.6 | 2968.5 | 2514.4 | 2088.6 | 1695.0 | 1358.6 | 1078.6 | 855.8 | 689.3 |
| 25° | 4359.6 | 3970.3 | 3536.4 | 3065.8 | 2579.1 | 2104.8 | 1670.9 | 1309.9 | 1009.7 | 782.6 | 628.5 |
| 27.5° | 4550.2 | 4140.5 | 3690.3 | 3187.4 | 2664.3 | 2137.1 | 1662.8 | 1257.2 | 948.9 | 713.7 | 580.0 |
| 30° | 4817.7 | 4343.4 | 3844.4 | 3309.1 | 2741.4 | 2173.8 | 1654.7 | 1224.7 | 888.0 | 661.0 | 531.2 |
| 32.5° | 5053.1 | 4542.1 | 4014.9 | 3434.9 | 2826.6 | 2210.2 | 1650.5 | 1180.1 | 831.4 | 608.3 | 494.7 |
| 35° | 5300.4 | 4724.6 | 4160.9 | 3556.6 | 2899.5 | 2250.6 | 1646.5 | 1147.6 | 778.7 | 555.6 | 458.3 |
| 37.5° | 5515.4 | 4878.5 | 4274.4 | 3662.0 | 2980.8 | 2287.3 | 1650.5 | 1119.3 | 729.9 | 511.0 | 425.8 |
| 40° | 5697.8 | 5036.9 | 4400.0 | 3759.2 | 3065.8 | 2344.0 | 1654.7 | 1091.0 | 681.4 | 470.4 | 397.5 |
| 42.5° | 5860.1 | 5186.8 | 4534.0 | 3868.8 | 3163.3 | 2409.0 | 1679.0 | 1066.6 | 640.8 | 433.9 | 369.2 |
| 45° | 5985.7 | 5324.7 | 4679.8 | 4023.0 | 3321.4 | 2514.4 | 1723.6 | 1050.3 | 600.1 | 401.4 | 344.8 |
| 47.5° | 6115.5 | 5527.4 | 4927.3 | 4266.3 | 3552.6 | 2680.6 | 1800.7 | 1046.4 | 567.6 | 377.0 | 324.3 |
| 50° | 6294.0 | 5730.3 | 5146.2 | 4513.6 | 3763.4 | 2851.0 | 1893.8 | 1050.3 | 527.3 | 352.9 | 304.1 |
| 52.5° | 6423.8 | 5937.0 | 5430.2 | 4943.5 | 4266.3 | 3369.9 | 2254.8 | 1123.2 | 506.8 | 332.5 | 279.8 |
| 55° | 7190.2 | 7105.0 | 7117.1 | 7198.3 | 6675.3 | 5734.3 | 3771.6 | 1622.1 | 596.2 | 377.0 | 275.8 |
| 57.5° | 10138.5 | 10438.4 | 10612.8 | 10608.9 | 9745.0 | 8082.4 | 5065.2 | 2084.4 | 665.2 | 437.9 | 328.5 |
| 60° | 14015.5 | 13788.4 | 13468.0 | 12677.0 | 11529.4 | 9226.1 | 5665.3 | 2242.7 | 575.8 | 348.7 | 300.2 |
| 62.5° | 17442.2 | 16111.9 | 14931.8 | 13650.5 | 12145.8 | 9623.3 | 5787.0 | 2230.4 | 502.9 | 263.5 | 210.8 |
| 65° | 19579.3 | 17186.6 | 15280.8 | 13674.6 | 11902.5 | 9290.9 | 5474.7 | 2047.9 | 425.8 | 215.0 | 174.4 |
| 67.5° | 20090.3 | 16606.7 | 13910.0 | 11861.9 | 9943.7 | 7230.8 | 4018.8 | 1541.1 | 332.5 | 178.5 | 154.2 |
| 69° | 18975.0 | 14761.6 | 11525.5 | 9201.7 | 7234.8 | 4797.5 | 2486.0 | 973.2 | 255.4 | 162.3 | 141.8 |
| 70° | 17454.3 | 12839.3 | 9388.1 | 7384.8 | 5357.3 | 3369.9 | 1739.9 | 685.4 | 206.9 | 150.0 | 129.8 |
| 72.5° | 11229.5 | 6744.0 | 4615.0 | 3211.8 | 2210.2 | 1342.4 | 681.4 | 308.3 | 158.1 | 125.6 | 105.4 |
| 75° | 4355.4 | 2494.2 | 1808.8 | 1374.7 | 1074.7 | 746.2 | 413.7 | 198.7 | 133.7 | 105.4 | 81.0 |
| 77.5° | 2145.2 | 1642.3 | 1342.4 | 920.5 | 535.4 | 332.5 | 223.1 | 154.2 | 109.6 | 77.1 | 52.7 |
| 80° | 1695.0 | 1127.4 | 673.3 | 417.7 | 316.2 | 239.4 | 170.4 | 125.6 | 81.0 | 48.8 | 36.4 |
| 82.5° | 867.8 | 474.6 | 348.7 | 283.9 | 235.2 | 186.7 | 137.9 | 89.1 | 52.7 | 32.5 | 28.3 |
| 85° | 271.6 | 198.7 | 178.5 | 174.4 | 162.3 | 133.7 | 97.3 | 56.9 | 32.5 | 20.2 | 20.2 |
| 87.5° | 20.2 | 28.3 | 36.4 | 28.3 | 32.5 | 28.3 | 36.4 | 24.4 | 16.3 | 16.3 | 12.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: VTS-E12-LED-E1-SL4-HSS-7060

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1869.6 | 1869.6 | 1869.6 | 1869.6 | 1869.6 | 1869.6 | 1869.6 | 1869.6 | 1869.6 | 1869.6 | 1869.6 |
| 2.5° | 1703.2 | 1654.7 | 1610.1 | 1581.5 | 1528.8 | 1508.6 | 1488.4 | 1480.3 | 1443.6 | 1451.7 | 1419.5 |
| 5° | 1488.4 | 1403.2 | 1338.2 | 1273.4 | 1212.6 | 1168.0 | 1131.3 | 1086.8 | 1050.3 | 1034.1 | 1001.6 |
| 7.5° | 1293.6 | 1184.3 | 1099.1 | 1030.1 | 957.0 | 900.3 | 851.6 | 819.1 | 786.8 | 754.3 | 738.1 |
| 10° | 1123.2 | 1005.7 | 908.5 | 839.5 | 770.6 | 721.8 | 685.4 | 661.0 | 640.8 | 628.5 | 624.5 |
| 12.5° | 965.1 | 851.6 | 762.4 | 701.6 | 648.9 | 624.5 | 608.3 | 596.2 | 592.0 | 588.1 | 588.1 |
| 15° | 843.5 | 729.9 | 661.0 | 616.4 | 592.0 | 580.0 | 575.8 | 567.6 | 559.8 | 555.6 | 555.6 |
| 17.5° | 729.9 | 644.7 | 596.2 | 571.8 | 559.8 | 551.6 | 543.5 | 535.4 | 527.3 | 523.1 | 523.1 |
| 20° | 652.8 | 583.9 | 559.8 | 543.5 | 531.2 | 523.1 | 511.0 | 502.9 | 498.9 | 494.7 | 490.8 |
| 22.5° | 592.0 | 547.4 | 531.2 | 519.1 | 502.9 | 490.8 | 482.7 | 474.6 | 466.4 | 462.2 | 458.3 |
| 25° | 547.4 | 519.1 | 506.8 | 490.8 | 474.6 | 462.2 | 450.2 | 437.9 | 430.0 | 425.8 | 417.7 |
| 27.5° | 514.9 | 494.7 | 478.5 | 458.3 | 442.0 | 430.0 | 417.7 | 405.6 | 397.5 | 389.3 | 385.2 |
| 30° | 486.6 | 466.4 | 446.0 | 430.0 | 409.5 | 397.5 | 381.2 | 369.2 | 365.0 | 356.8 | 348.7 |
| 32.5° | 458.3 | 437.9 | 417.7 | 397.5 | 377.0 | 361.0 | 352.9 | 336.6 | 328.5 | 324.3 | 316.2 |
| 35° | 425.8 | 405.6 | 381.2 | 365.0 | 344.8 | 328.5 | 316.2 | 304.1 | 296.0 | 287.9 | 283.9 |
| 37.5° | 397.5 | 373.1 | 348.7 | 328.5 | 312.3 | 296.0 | 283.9 | 271.6 | 263.5 | 255.4 | 251.4 |
| 40° | 365.0 | 340.6 | 316.2 | 296.0 | 279.8 | 267.7 | 255.4 | 243.3 | 235.2 | 231.2 | 231.2 |
| 42.5° | 336.6 | 308.3 | 283.9 | 267.7 | 255.4 | 239.4 | 227.1 | 215.0 | 210.8 | 206.9 | 210.8 |
| 45° | 308.3 | 279.8 | 259.6 | 243.3 | 231.2 | 215.0 | 202.7 | 194.5 | 190.6 | 194.5 | 198.7 |
| 47.5° | 283.9 | 255.4 | 235.2 | 223.1 | 210.8 | 198.7 | 186.7 | 178.5 | 178.5 | 186.7 | 194.5 |
| 50° | 259.6 | 231.2 | 215.0 | 206.9 | 194.5 | 182.5 | 166.2 | 162.3 | 166.2 | 174.4 | 182.5 |
| 52.5° | 235.2 | 202.7 | 190.6 | 186.7 | 174.4 | 162.3 | 150.0 | 146.0 | 150.0 | 158.1 | 154.2 |
| 55° | 210.8 | 178.5 | 174.4 | 170.4 | 158.1 | 141.8 | 129.8 | 129.8 | 129.8 | 125.6 | 117.7 |
| 57.5° | 202.7 | 158.1 | 154.2 | 150.0 | 137.9 | 121.7 | 113.5 | 105.4 | 101.5 | 89.1 | 85.2 |
| 60° | 210.8 | 141.8 | 141.8 | 133.7 | 121.7 | 105.4 | 93.3 | 81.0 | 72.9 | 64.8 | 64.8 |
| 62.5° | 170.4 | 129.8 | 125.6 | 117.7 | 101.5 | 85.2 | 72.9 | 60.8 | 56.9 | 52.7 | 52.7 |
| 65° | 137.9 | 117.7 | 109.6 | 97.3 | 85.2 | 69.0 | 56.9 | 48.8 | 44.6 | 44.6 | 48.8 |
| 67.5° | 125.6 | 105.4 | 93.3 | 81.0 | 69.0 | 52.7 | 44.6 | 40.6 | 40.6 | 44.6 | 44.6 |
| 69° | 117.7 | 97.3 | 85.2 | 72.9 | 60.8 | 48.8 | 40.6 | 40.6 | 40.6 | 40.6 | 44.6 |
| 70° | 109.6 | 93.3 | 81.0 | 69.0 | 52.7 | 40.6 | 36.4 | 36.4 | 40.6 | 40.6 | 44.6 |
| 72.5° | 85.2 | 72.9 | 69.0 | 56.9 | 40.6 | 36.4 | 32.5 | 36.4 | 36.4 | 40.6 | 40.6 |
| 75° | 64.8 | 52.7 | 52.7 | 44.6 | 32.5 | 28.3 | 28.3 | 32.5 | 32.5 | 36.4 | 36.4 |
| 77.5° | 44.6 | 36.4 | 36.4 | 32.5 | 28.3 | 24.4 | 24.4 | 28.3 | 32.5 | 32.5 | 36.4 |
| 80° | 32.5 | 28.3 | 24.4 | 28.3 | 24.4 | 20.2 | 24.4 | 28.3 | 28.3 | 32.5 | 32.5 |
| 82.5° | 24.4 | 24.4 | 24.4 | 24.4 | 20.2 | 20.2 | 24.4 | 24.4 | 28.3 | 32.5 | 32.5 |
| 85° | 20.2 | 20.2 | 20.2 | 20.2 | 20.2 | 20.2 | 20.2 | 24.4 | 24.4 | 28.3 | 28.3 |
| 87.5° | 12.1 | 12.1 | 12.1 | 16.3 | 16.3 | 20.2 | 20.2 | 20.2 | 20.2 | 24.4 | 24.4 |
| 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: P165449

CATALOG NUMBER: VTS-E12-LED-E1-SL4-HSS-7060

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1869.6 | 1869.6 | 1869.6 | 1869.6 |
| 2.5° | 1411.3 | 1407.2 | 1390.9 | 1395.1 |
| 5° | 989.5 | 965.1 | 981.4 | 977.4 |
| 7.5° | 726.0 | 721.8 | 717.9 | 726.0 |
| 10° | 620.6 | 620.6 | 616.4 | 620.6 |
| 12.5° | 583.9 | 583.9 | 583.9 | 583.9 |
| 15° | 555.6 | 555.6 | 551.6 | 551.6 |
| 17.5° | 523.1 | 523.1 | 523.1 | 519.1 |
| 20° | 490.8 | 486.6 | 486.6 | 486.6 |
| 22.5° | 454.1 | 450.2 | 450.2 | 450.2 |
| 25° | 417.7 | 413.7 | 413.7 | 413.7 |
| 27.5° | 381.2 | 377.0 | 373.1 | 373.1 |
| 30° | 344.8 | 340.6 | 336.6 | 336.6 |
| 32.5° | 308.3 | 304.1 | 300.2 | 300.2 |
| 35° | 275.8 | 275.8 | 271.6 | 267.7 |
| 37.5° | 247.5 | 247.5 | 247.5 | 247.5 |
| 40° | 227.1 | 231.2 | 231.2 | 231.2 |
| 42.5° | 215.0 | 218.9 | 223.1 | 227.1 |
| 45° | 206.9 | 215.0 | 218.9 | 218.9 |
| 47.5° | 202.7 | 206.9 | 210.8 | 210.8 |
| 50° | 186.7 | 182.5 | 182.5 | 182.5 |
| 52.5° | 150.0 | 141.8 | 137.9 | 133.7 |
| 55° | 109.6 | 105.4 | 97.3 | 97.3 |
| 57.5° | 77.1 | 77.1 | 72.9 | 72.9 |
| 60° | 60.8 | 60.8 | 56.9 | 60.8 |
| 62.5° | 52.7 | 52.7 | 52.7 | 52.7 |
| 65° | 48.8 | 48.8 | 48.8 | 48.8 |
| 67.5° | 48.8 | 48.8 | 48.8 | 48.8 |
| 69° | 44.6 | 44.6 | 44.6 | 44.6 |
| 70° | 44.6 | 44.6 | 44.6 | 44.6 |
| 72.5° | 40.6 | 40.6 | 40.6 | 40.6 |
| 75° | 36.4 | 40.6 | 40.6 | 40.6 |
| 77.5° | 36.4 | 36.4 | 36.4 | 36.4 |
| 80° | 32.5 | 32.5 | 36.4 | 36.4 |
| 82.5° | 32.5 | 32.5 | 32.5 | 32.5 |
| 85° | 28.3 | 28.3 | 32.5 | 32.5 |
| 87.5° | 24.4 | 24.4 | 28.3 | 28.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)