

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: P165231

Luminaire Tested: **VTS-F12-LED-E1-SL3-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165231
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F12-LED-E1-SL3-HSS-7030
Description: VENTUS LED SITE LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15500 lumens
Efficiency: N/A
Efficacy: 50.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G3

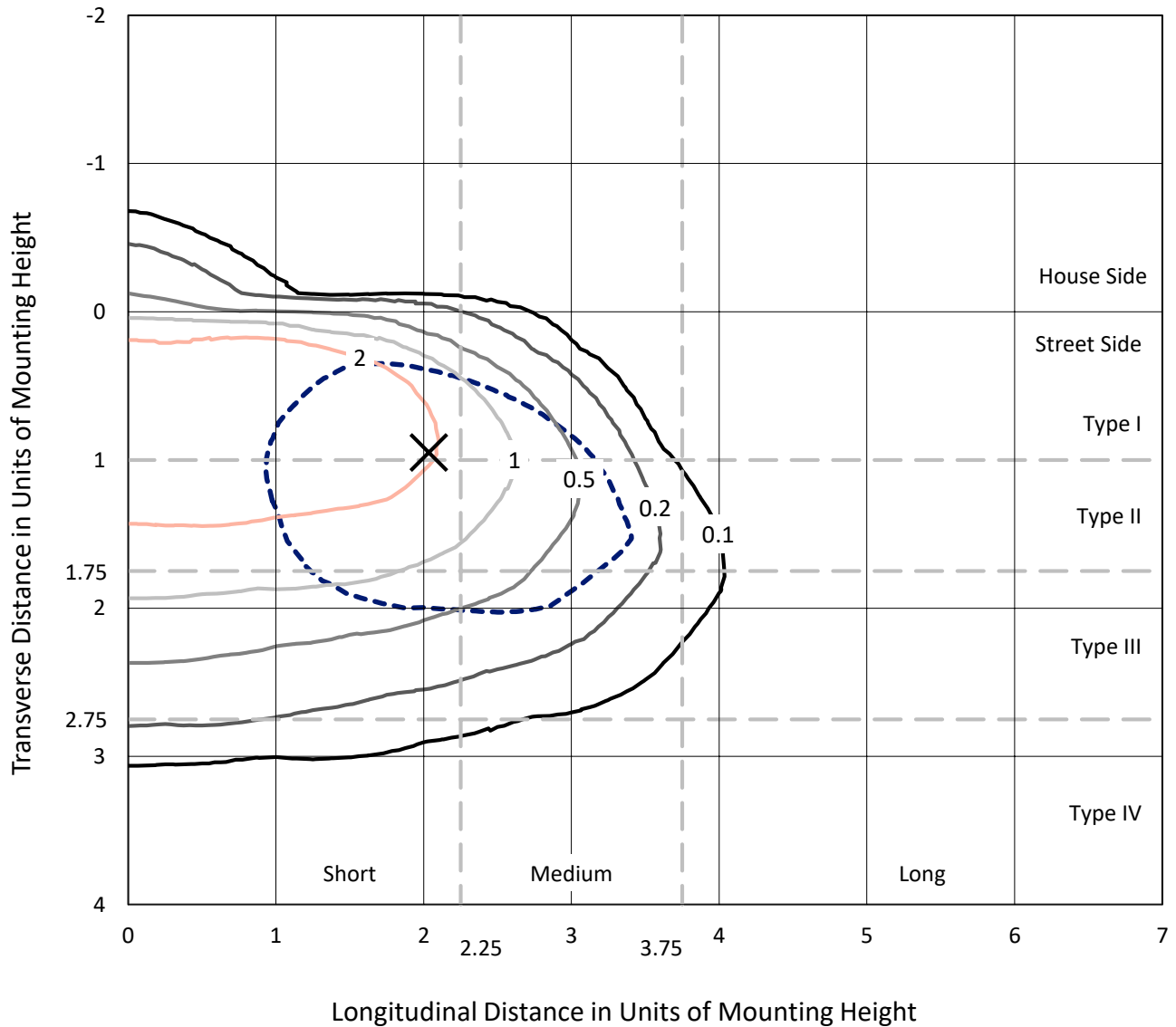
Input Watts (W): 306.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

REPORT NUMBER: P165231

CATALOG NUMBER: VTS-F12-LED-E1-SL3-HSS-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

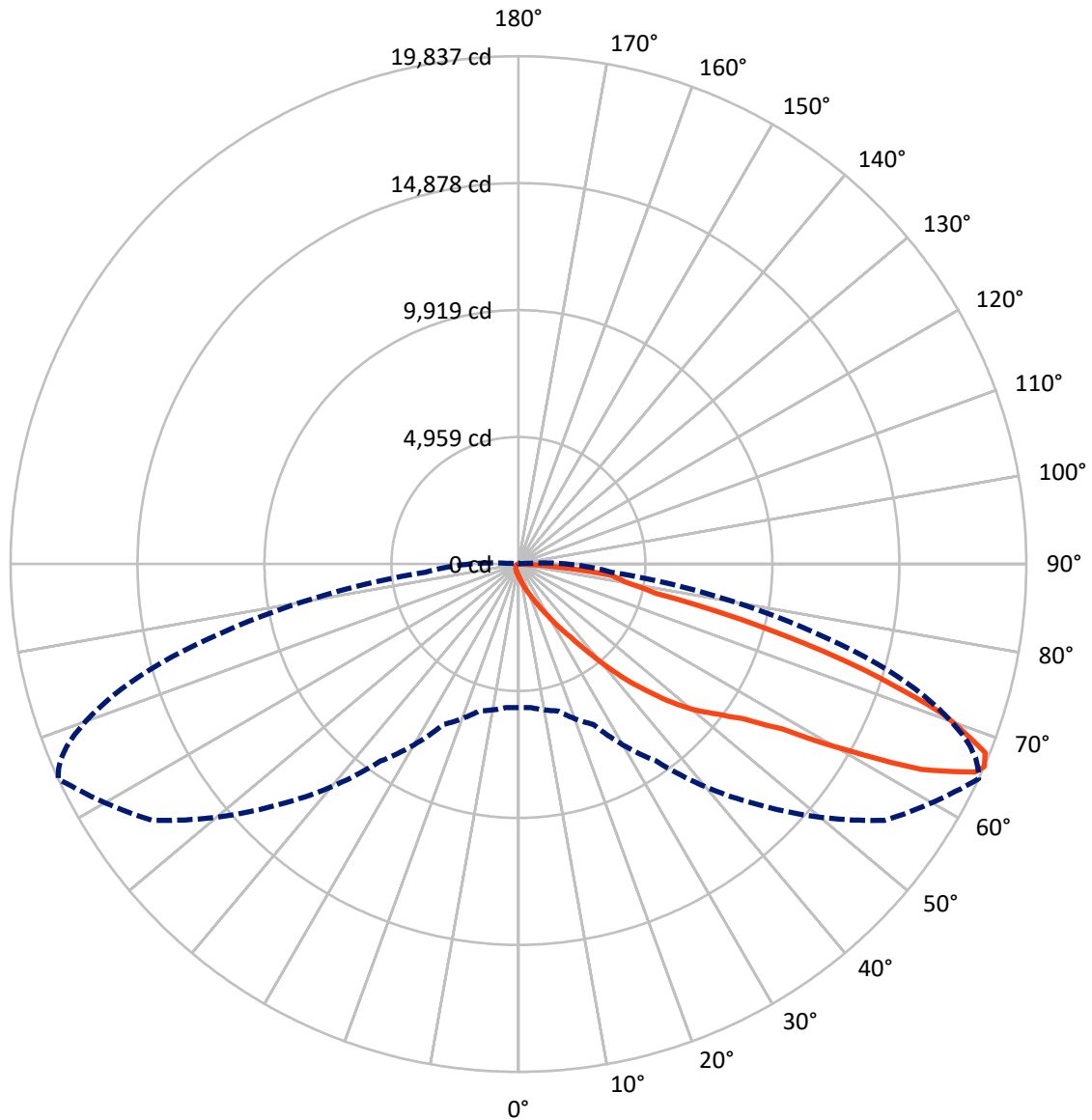


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P165231

CATALOG NUMBER: VTS-F12-LED-E1-SL3-HSS-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P165231

CATALOG NUMBER: VTS-F12-LED-E1-SL3-HSS-7030

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 335.9 | 0.0 | 335.9 |
| | % Fixture | 2.2 | 0.0 | 2.2 |
| Street Side | Lumens | 15164.1 | 0.0 | 15164.1 |
| | % Fixture | 97.8 | 0.0 | 97.8 |
| Total | Lumens | 15500.0 | 0.0 | 15500.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 52.4 | 0.3 |
| 10°-20° | 222.1 | 1.4 |
| 20°-30° | 479.0 | 3.1 |
| 30°-40° | 1022.9 | 6.6 |
| 40°-50° | 2262.1 | 14.6 |
| 50°-60° | 3833.4 | 24.7 |
| 60°-70° | 5115.4 | 33.0 |
| 70°-80° | 2253.3 | 14.5 |
| 80°-90° | 259.5 | 1.7 |
| 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° | 15500.0 | 100.0 |
| 0°-180° | 15500.0 | 100.0 |



REPORT NUMBER: P165231

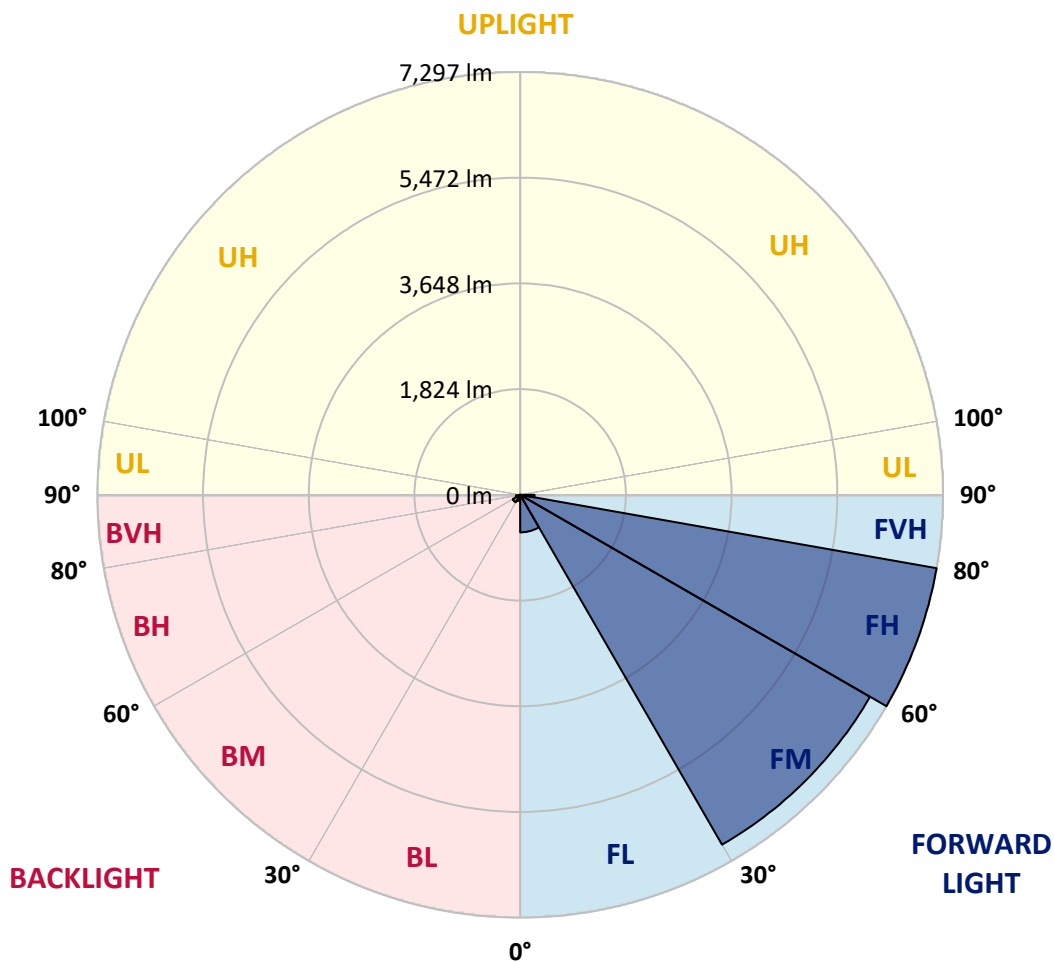
CATALOG NUMBER: VTS-F12-LED-E1-SL3-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 647.4 | 4.2 | | | |
| FM | (30°-60°) | 6970.8 | 45.0 | | | |
| FH | (60°-80°) | 7296.6 | 47.1 | | | G3/7500 |
| FVH | (80°-90°) | 249.2 | 1.6 | | | G3/500 |
| BL | (0°-30°) | 106.0 | 0.7 | B0/110 | | |
| BM | (30°-60°) | 147.5 | 1.0 | B0/220 | | |
| BH | (60°-80°) | 72.1 | 0.5 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 10.3 | 0.1 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G3

Type III Short





REPORT NUMBER: P165231

CATALOG NUMBER: VTS-F12-LED-E1-SL3-HSS-7030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 67° | 68° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 467.8 | 467.8 | 467.8 | 467.8 | 467.8 | 467.8 | 467.8 | 467.8 | 467.8 | 467.8 | 467.8 |
| 2.5° | 590.1 | 587.0 | 575.1 | 575.1 | 557.2 | 545.4 | 530.4 | 515.6 | 515.6 | 512.5 | 509.6 |
| 5° | 780.7 | 762.9 | 759.8 | 727.1 | 700.3 | 661.6 | 625.8 | 578.2 | 572.2 | 566.2 | 563.1 |
| 7.5° | 992.4 | 989.3 | 962.5 | 923.8 | 870.2 | 798.6 | 727.1 | 649.6 | 637.7 | 631.7 | 619.8 |
| 10° | 1266.5 | 1251.5 | 1215.9 | 1150.2 | 1069.8 | 974.5 | 858.3 | 736.0 | 721.1 | 709.2 | 703.2 |
| 12.5° | 1528.7 | 1502.0 | 1481.0 | 1397.5 | 1296.2 | 1156.1 | 1016.1 | 840.4 | 828.4 | 813.6 | 789.7 |
| 15° | 1773.0 | 1749.1 | 1713.5 | 1642.0 | 1528.7 | 1352.8 | 1189.1 | 974.5 | 944.6 | 923.8 | 905.9 |
| 17.5° | 1963.8 | 1948.9 | 1907.1 | 1826.8 | 1704.4 | 1549.5 | 1352.8 | 1111.4 | 1087.7 | 1060.8 | 1028.0 |
| 20° | 2145.6 | 2124.6 | 2059.1 | 1948.9 | 1817.7 | 1698.5 | 1546.7 | 1290.2 | 1257.5 | 1224.7 | 1189.1 |
| 22.5° | 2318.4 | 2297.4 | 2190.3 | 2008.5 | 1868.4 | 1817.7 | 1764.2 | 1492.9 | 1442.2 | 1415.5 | 1379.6 |
| 25° | 2559.8 | 2515.1 | 2348.1 | 2059.1 | 1871.5 | 1910.2 | 2002.5 | 1755.1 | 1707.5 | 1668.8 | 1612.2 |
| 27.5° | 2884.7 | 2824.9 | 2562.7 | 2133.7 | 1883.2 | 2011.5 | 2276.6 | 2074.0 | 2023.3 | 1978.6 | 1916.2 |
| 30° | 3251.1 | 3212.4 | 2899.5 | 2312.5 | 1969.7 | 2160.5 | 2583.5 | 2479.3 | 2419.8 | 2366.0 | 2291.7 |
| 32.5° | 3620.6 | 3567.1 | 3257.1 | 2652.1 | 2202.1 | 2449.5 | 2968.1 | 2950.2 | 2872.7 | 2822.0 | 2741.5 |
| 35° | 3945.4 | 3918.7 | 3689.2 | 3209.3 | 2732.7 | 2956.1 | 3480.6 | 3501.4 | 3433.0 | 3379.2 | 3289.8 |
| 37.5° | 4166.0 | 4166.0 | 4121.3 | 3808.3 | 3575.9 | 3742.8 | 4234.4 | 4237.5 | 4168.9 | 4046.8 | 4002.1 |
| 40° | 4279.1 | 4311.9 | 4472.9 | 4532.5 | 4520.5 | 4735.1 | 5223.9 | 5170.2 | 5113.5 | 5050.9 | 4902.0 |
| 42.5° | 4511.7 | 4541.3 | 4884.1 | 5295.4 | 5563.6 | 5846.6 | 6183.3 | 6165.4 | 6097.0 | 5983.8 | 5846.6 |
| 45° | 4905.1 | 4943.8 | 5352.0 | 6004.6 | 6555.8 | 6958.2 | 7172.6 | 7089.2 | 7020.6 | 6913.5 | 6841.9 |
| 47.5° | 5405.6 | 5480.1 | 5942.0 | 6749.6 | 7414.0 | 8078.5 | 8302.0 | 8081.6 | 8022.1 | 7938.5 | 7822.3 |
| 50° | 5939.1 | 6010.5 | 6502.2 | 7426.0 | 8177.0 | 8969.6 | 9342.2 | 8969.6 | 8883.2 | 8856.3 | 8725.3 |
| 52.5° | 6400.9 | 6460.6 | 6934.3 | 7947.5 | 8760.9 | 9690.7 | 10233.0 | 9741.4 | 9678.7 | 9589.3 | 9494.0 |
| 55° | 6675.0 | 6722.8 | 7166.7 | 8197.8 | 9157.4 | 10340.3 | 11094.4 | 10662.3 | 10569.8 | 10534.1 | 10397.0 |
| 57.5° | 6767.5 | 6815.1 | 7214.5 | 8230.5 | 9371.8 | 10933.3 | 12140.3 | 12155.2 | 12045.0 | 11916.8 | 11875.0 |
| 60° | 6767.5 | 6821.0 | 7157.8 | 8150.2 | 9580.5 | 11565.1 | 13534.8 | 14777.4 | 14539.1 | 14515.2 | 14363.2 |
| 62.5° | 6487.4 | 6538.0 | 6877.7 | 7902.8 | 9860.6 | 12417.4 | 15477.7 | 17671.0 | 17602.6 | 17447.5 | 17197.2 |
| 65° | 5879.3 | 5909.2 | 6242.9 | 7271.1 | 9753.3 | 13201.1 | 17161.4 | 19596.0 | 19485.8 | 19181.8 | 18860.0 |
| 66° | 5605.2 | 5629.1 | 5942.0 | 6910.4 | 9401.7 | 13308.4 | 17459.4 | 19837.4 | 19655.7 | 19399.3 | 19035.7 |
| 67.5° | 5208.9 | 5250.7 | 5471.1 | 6240.0 | 8558.4 | 12935.8 | 17271.8 | 19667.6 | 19509.7 | 19199.7 | 18836.1 |
| 70° | 3477.7 | 3447.8 | 4225.6 | 4788.7 | 6520.1 | 10540.1 | 15495.7 | 17659.0 | 17662.1 | 17516.1 | 17370.0 |
| 72.5° | 1650.9 | 1668.8 | 1895.2 | 2947.1 | 4267.2 | 7041.6 | 12333.9 | 14095.0 | 14297.7 | 14035.5 | 13853.6 |
| 75° | 1186.0 | 1212.8 | 1349.9 | 1802.9 | 2544.8 | 4225.6 | 7995.1 | 9857.5 | 9863.5 | 9398.6 | 8984.6 |
| 77.5° | 345.6 | 360.7 | 506.5 | 1111.4 | 1907.1 | 2851.7 | 4592.0 | 5480.1 | 5352.0 | 5018.2 | 4705.3 |
| 80° | 143.0 | 143.0 | 148.9 | 354.7 | 765.8 | 1937.0 | 3212.4 | 4219.6 | 4204.8 | 4076.6 | 3891.9 |
| 82.5° | 53.6 | 56.6 | 71.5 | 146.0 | 181.9 | 476.8 | 2142.5 | 3662.4 | 3653.4 | 3471.7 | 3340.5 |
| 85° | 6.0 | 6.0 | 17.9 | 62.6 | 68.6 | 89.4 | 429.1 | 1615.1 | 1606.2 | 1615.1 | 1415.5 |
| 87.5° | 0.0 | 0.0 | 2.9 | 6.0 | 8.9 | 11.9 | 17.9 | 62.6 | 68.6 | 65.5 | 59.5 |
| 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: P165231

CATALOG NUMBER: VTS-F12-LED-E1-SL3-HSS-7030

CANDELA DISTRIBUTION (continued):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 467.8 | 467.8 | 467.8 | 467.8 | 467.8 | 467.8 | 467.8 | 467.8 | 467.8 | 467.8 | 467.8 |
| 2.5° | 509.6 | 503.6 | 503.6 | 500.7 | 500.7 | 500.7 | 497.6 | 494.7 | 494.7 | 491.7 | 488.8 |
| 5° | 557.2 | 551.2 | 548.3 | 542.3 | 539.4 | 536.4 | 530.4 | 527.5 | 521.5 | 518.4 | 515.6 |
| 7.5° | 613.8 | 601.9 | 599.0 | 590.1 | 581.1 | 575.1 | 569.1 | 560.2 | 554.3 | 542.3 | 539.4 |
| 10° | 685.5 | 670.5 | 658.5 | 646.6 | 637.7 | 622.9 | 613.8 | 601.9 | 590.1 | 581.1 | 572.2 |
| 12.5° | 777.8 | 756.9 | 739.0 | 727.1 | 706.3 | 688.4 | 670.5 | 661.6 | 637.7 | 625.8 | 610.9 |
| 15° | 879.1 | 855.2 | 834.4 | 810.5 | 795.7 | 765.8 | 741.9 | 715.1 | 703.2 | 682.4 | 658.5 |
| 17.5° | 1010.1 | 971.4 | 938.6 | 914.9 | 885.1 | 855.2 | 828.4 | 801.6 | 765.8 | 741.9 | 712.3 |
| 20° | 1150.2 | 1117.4 | 1072.7 | 1031.1 | 995.3 | 959.6 | 920.7 | 885.1 | 852.3 | 813.6 | 777.8 |
| 22.5° | 1329.1 | 1281.4 | 1227.8 | 1186.0 | 1138.4 | 1099.7 | 1045.9 | 998.3 | 944.6 | 893.9 | 852.3 |
| 25° | 1555.5 | 1492.9 | 1442.2 | 1382.7 | 1326.1 | 1266.5 | 1200.8 | 1141.3 | 1072.7 | 1025.1 | 953.7 |
| 27.5° | 1835.6 | 1776.1 | 1707.5 | 1630.1 | 1573.4 | 1484.0 | 1397.5 | 1323.2 | 1242.6 | 1168.1 | 1087.7 |
| 30° | 2193.2 | 2106.9 | 2035.2 | 1960.9 | 1847.6 | 1761.1 | 1659.8 | 1558.6 | 1448.2 | 1373.8 | 1251.5 |
| 32.5° | 2622.3 | 2530.0 | 2422.7 | 2315.4 | 2211.1 | 2089.0 | 1963.8 | 1838.5 | 1716.4 | 1579.4 | 1454.2 |
| 35° | 3146.9 | 3036.5 | 2914.3 | 2798.2 | 2637.3 | 2506.1 | 2348.1 | 2175.3 | 2038.3 | 1880.3 | 1722.4 |
| 37.5° | 3841.2 | 3659.3 | 3552.0 | 3429.9 | 3212.4 | 3033.6 | 2857.7 | 2684.9 | 2443.5 | 2276.6 | 2053.2 |
| 40° | 4711.3 | 4603.9 | 4428.2 | 4231.5 | 4034.8 | 3799.4 | 3561.1 | 3331.6 | 3051.5 | 2819.0 | 2559.8 |
| 42.5° | 5733.3 | 5575.5 | 5396.7 | 5113.5 | 4913.9 | 4636.7 | 4365.6 | 4061.6 | 3718.9 | 3421.0 | 3117.0 |
| 45° | 6692.9 | 6505.3 | 6368.1 | 6085.1 | 5876.4 | 5548.5 | 5220.8 | 4899.1 | 4502.6 | 4118.3 | 3766.6 |
| 47.5° | 7730.0 | 7574.9 | 7348.5 | 7119.1 | 6907.5 | 6538.0 | 6183.3 | 5793.0 | 5375.7 | 4919.9 | 4463.9 |
| 50° | 8641.9 | 8519.7 | 8364.6 | 8087.6 | 7852.1 | 7542.2 | 7125.1 | 6698.9 | 6171.4 | 5718.5 | 5200.0 |
| 52.5° | 9416.5 | 9321.2 | 9103.7 | 8907.0 | 8695.4 | 8403.3 | 8030.9 | 7622.7 | 7053.6 | 6555.8 | 5965.8 |
| 55° | 10331.5 | 10262.9 | 10072.1 | 9950.0 | 9762.3 | 9482.2 | 9133.5 | 8755.1 | 8153.1 | 7610.7 | 6943.2 |
| 57.5° | 11830.3 | 11776.8 | 11609.8 | 11559.1 | 11374.3 | 11130.0 | 10701.0 | 10295.6 | 9592.4 | 8918.9 | 8156.2 |
| 60° | 14312.5 | 14205.4 | 13960.9 | 13835.9 | 13445.4 | 13117.7 | 12560.5 | 12003.2 | 11153.9 | 10295.6 | 9377.8 |
| 62.5° | 16970.6 | 16669.7 | 16204.8 | 15805.6 | 15251.4 | 14682.1 | 13937.1 | 13084.9 | 12089.7 | 11070.5 | 10015.5 |
| 65° | 18404.0 | 17891.5 | 17304.5 | 16669.7 | 15951.7 | 15114.2 | 14175.6 | 13153.5 | 12083.7 | 11007.9 | 9893.4 |
| 66° | 18568.0 | 17989.8 | 17367.1 | 16660.8 | 15862.3 | 14971.2 | 14017.6 | 12944.9 | 11833.2 | 10784.4 | 9669.9 |
| 67.5° | 18362.4 | 17757.5 | 17098.9 | 16315.2 | 15451.0 | 14527.2 | 13525.9 | 12411.4 | 11341.6 | 10277.7 | 9193.1 |
| 70° | 16923.1 | 16321.0 | 15734.0 | 14908.6 | 13987.7 | 13058.1 | 12110.5 | 10864.9 | 9851.7 | 8874.2 | 7908.8 |
| 72.5° | 13514.0 | 13105.7 | 12524.7 | 11818.4 | 10921.4 | 9830.7 | 9041.0 | 7926.7 | 7047.6 | 6099.9 | 5352.0 |
| 75° | 8445.1 | 7870.1 | 7151.8 | 6251.9 | 5566.5 | 4681.4 | 4219.6 | 3373.2 | 2872.7 | 2434.6 | 2011.5 |
| 77.5° | 4317.8 | 3885.9 | 3382.3 | 2875.6 | 2389.9 | 1907.1 | 1475.0 | 1043.0 | 703.2 | 488.8 | 363.5 |
| 80° | 3567.1 | 3185.6 | 2768.3 | 2306.5 | 1877.4 | 1457.3 | 1049.0 | 715.1 | 456.0 | 298.0 | 232.4 |
| 82.5° | 2947.1 | 2625.3 | 2252.8 | 1823.7 | 1451.3 | 1144.4 | 795.7 | 518.4 | 321.7 | 208.6 | 163.9 |
| 85° | 1254.6 | 1138.4 | 879.1 | 697.2 | 524.4 | 387.4 | 271.3 | 181.9 | 128.1 | 104.2 | 95.4 |
| 87.5° | 53.6 | 59.5 | 56.6 | 44.7 | 32.8 | 32.8 | 29.9 | 23.9 | 23.9 | 23.9 | 23.9 |
| 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: P165231

CATALOG NUMBER: VTS-F12-LED-E1-SL3-HSS-7030

CANDELA DISTRIBUTION (continued):

| | 80° | 81° | 82° | 83° | 84° | 85° | 95° | 105° | 115° | 125° | 135° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0° | 467.8 | 467.8 | 467.8 | 467.8 | 467.8 | 467.8 | 467.8 | 467.8 | 467.8 | 467.8 | 467.8 |
| 2.5° | 488.8 | 485.7 | 482.8 | 482.8 | 479.7 | 476.8 | 458.9 | 444.1 | 426.2 | 414.2 | 402.3 |
| 5° | 509.6 | 506.5 | 500.7 | 497.6 | 491.7 | 488.8 | 450.0 | 417.1 | 390.3 | 369.5 | 354.7 |
| 7.5° | 530.4 | 527.5 | 518.4 | 509.6 | 506.5 | 500.7 | 438.1 | 396.3 | 360.7 | 336.8 | 321.7 |
| 10° | 557.2 | 548.3 | 539.4 | 527.5 | 518.4 | 509.6 | 426.2 | 372.4 | 333.7 | 312.9 | 298.0 |
| 12.5° | 595.9 | 581.1 | 566.2 | 551.2 | 539.4 | 524.4 | 420.2 | 351.6 | 312.9 | 289.0 | 274.2 |
| 15° | 640.8 | 619.8 | 601.9 | 584.1 | 563.1 | 548.3 | 408.2 | 333.7 | 295.0 | 271.3 | 253.3 |
| 17.5° | 682.4 | 658.5 | 631.7 | 604.9 | 584.1 | 563.1 | 396.3 | 316.0 | 277.0 | 253.3 | 235.4 |
| 20° | 741.9 | 706.3 | 673.5 | 640.8 | 610.9 | 584.1 | 378.4 | 298.0 | 262.2 | 235.4 | 217.5 |
| 22.5° | 807.6 | 765.8 | 724.2 | 679.5 | 640.8 | 604.9 | 363.5 | 283.0 | 247.4 | 220.6 | 199.6 |
| 25° | 891.0 | 840.4 | 783.7 | 727.1 | 682.4 | 634.8 | 348.7 | 268.2 | 232.4 | 205.6 | 184.8 |
| 27.5° | 1007.2 | 935.7 | 873.1 | 801.6 | 733.1 | 679.5 | 336.8 | 256.2 | 217.5 | 190.7 | 169.9 |
| 30° | 1165.2 | 1060.8 | 962.5 | 885.1 | 804.5 | 727.1 | 324.8 | 241.4 | 205.6 | 175.9 | 152.0 |
| 32.5° | 1340.9 | 1218.8 | 1105.5 | 989.3 | 888.0 | 798.6 | 312.9 | 229.5 | 190.7 | 160.9 | 140.1 |
| 35° | 1558.6 | 1403.5 | 1251.5 | 1117.4 | 995.3 | 876.0 | 300.9 | 217.5 | 178.8 | 146.0 | 125.2 |
| 37.5° | 1871.5 | 1677.7 | 1478.1 | 1305.3 | 1147.3 | 989.3 | 292.1 | 205.6 | 163.9 | 131.2 | 110.2 |
| 40° | 2300.5 | 2050.3 | 1805.8 | 1570.4 | 1364.8 | 1168.1 | 280.1 | 193.6 | 152.0 | 119.3 | 98.3 |
| 42.5° | 2765.4 | 2461.4 | 2139.7 | 1874.4 | 1591.3 | 1344.0 | 268.2 | 181.9 | 140.1 | 107.3 | 86.5 |
| 45° | 3343.6 | 2965.0 | 2574.7 | 2214.0 | 1868.4 | 1549.5 | 256.2 | 169.9 | 125.2 | 95.4 | 74.6 |
| 47.5° | 3975.3 | 3492.5 | 3051.5 | 2598.6 | 2187.2 | 1805.8 | 241.4 | 160.9 | 113.3 | 83.4 | 65.5 |
| 50° | 4624.9 | 4115.4 | 3558.0 | 3042.5 | 2553.9 | 2062.2 | 226.6 | 146.0 | 101.3 | 74.6 | 53.6 |
| 52.5° | 5325.1 | 4723.2 | 4154.1 | 3513.3 | 2944.2 | 2398.8 | 211.5 | 134.1 | 92.3 | 65.5 | 44.7 |
| 55° | 6216.1 | 5542.8 | 4875.2 | 4157.0 | 3471.7 | 2789.3 | 196.7 | 119.3 | 80.5 | 56.6 | 35.8 |
| 57.5° | 7336.6 | 6538.0 | 5718.5 | 4908.0 | 4076.6 | 3301.8 | 184.8 | 104.2 | 68.6 | 47.6 | 29.9 |
| 60° | 8394.5 | 7461.8 | 6469.4 | 5536.8 | 4598.0 | 3695.2 | 166.8 | 92.3 | 59.5 | 38.7 | 29.9 |
| 62.5° | 8942.8 | 7878.9 | 6809.1 | 5781.1 | 4779.8 | 3835.2 | 148.9 | 77.5 | 50.7 | 32.8 | 26.8 |
| 65° | 8808.7 | 7724.0 | 6687.0 | 5649.9 | 4669.6 | 3745.8 | 131.2 | 68.6 | 44.7 | 29.9 | 26.8 |
| 66° | 8615.1 | 7542.2 | 6499.3 | 5512.9 | 4577.2 | 3650.5 | 122.1 | 65.5 | 41.8 | 29.9 | 23.9 |
| 67.5° | 8191.8 | 7154.7 | 6159.5 | 5241.6 | 4323.8 | 3468.6 | 110.2 | 59.5 | 38.7 | 26.8 | 23.9 |
| 70° | 6996.9 | 6055.2 | 5259.6 | 4443.1 | 3695.2 | 2923.4 | 89.4 | 50.7 | 32.8 | 23.9 | 23.9 |
| 72.5° | 4630.7 | 3990.1 | 3459.7 | 2976.9 | 2488.2 | 1931.0 | 74.6 | 41.8 | 26.8 | 23.9 | 20.8 |
| 75° | 1746.2 | 1579.4 | 1355.9 | 1218.8 | 1063.9 | 932.7 | 59.5 | 26.8 | 20.8 | 20.8 | 20.8 |
| 77.5° | 310.0 | 286.1 | 253.3 | 232.4 | 214.6 | 196.7 | 47.6 | 17.9 | 17.9 | 20.8 | 20.8 |
| 80° | 208.6 | 193.6 | 175.9 | 160.9 | 148.9 | 134.1 | 32.8 | 14.8 | 17.9 | 17.9 | 20.8 |
| 82.5° | 148.9 | 140.1 | 131.2 | 119.3 | 110.2 | 98.3 | 20.8 | 14.8 | 17.9 | 17.9 | 17.9 |
| 85° | 89.4 | 83.4 | 77.5 | 71.5 | 62.6 | 59.5 | 14.8 | 14.8 | 14.8 | 17.9 | 17.9 |
| 87.5° | 23.9 | 20.8 | 23.9 | 23.9 | 17.9 | 20.8 | 11.9 | 11.9 | 11.9 | 14.8 | 14.8 |
| 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: P165231

CATALOG NUMBER: VTS-F12-LED-E1-SL3-HSS-7030

CANDELA DISTRIBUTION (continued):

| | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|
| 0° | 467.8 | 467.8 | 467.8 | 467.8 | 467.8 |
| 2.5° | 396.3 | 396.3 | 390.3 | 399.4 | 399.4 |
| 5° | 342.7 | 342.7 | 339.7 | 342.7 | 342.7 |
| 7.5° | 312.9 | 310.0 | 310.0 | 310.0 | 312.9 |
| 10° | 286.1 | 283.0 | 283.0 | 283.0 | 283.0 |
| 12.5° | 262.2 | 259.3 | 256.2 | 259.3 | 259.3 |
| 15° | 241.4 | 235.4 | 235.4 | 235.4 | 235.4 |
| 17.5° | 223.5 | 217.5 | 214.6 | 214.6 | 214.6 |
| 20° | 205.6 | 196.7 | 196.7 | 196.7 | 196.7 |
| 22.5° | 187.7 | 178.8 | 178.8 | 178.8 | 178.8 |
| 25° | 169.9 | 160.9 | 160.9 | 160.9 | 160.9 |
| 27.5° | 154.9 | 146.0 | 146.0 | 146.0 | 146.0 |
| 30° | 137.2 | 131.2 | 131.2 | 134.1 | 131.2 |
| 32.5° | 125.2 | 116.2 | 116.2 | 119.3 | 119.3 |
| 35° | 110.2 | 104.2 | 104.2 | 104.2 | 104.2 |
| 37.5° | 95.4 | 89.4 | 89.4 | 89.4 | 89.4 |
| 40° | 83.4 | 77.5 | 74.6 | 77.5 | 77.5 |
| 42.5° | 71.5 | 65.5 | 62.6 | 62.6 | 62.6 |
| 45° | 62.6 | 53.6 | 50.7 | 53.6 | 53.6 |
| 47.5° | 50.7 | 44.7 | 44.7 | 47.6 | 47.6 |
| 50° | 38.7 | 38.7 | 41.8 | 47.6 | 47.6 |
| 52.5° | 35.8 | 35.8 | 41.8 | 47.6 | 47.6 |
| 55° | 32.8 | 35.8 | 41.8 | 44.7 | 47.6 |
| 57.5° | 29.9 | 35.8 | 41.8 | 44.7 | 44.7 |
| 60° | 29.9 | 32.8 | 38.7 | 44.7 | 44.7 |
| 62.5° | 26.8 | 29.9 | 35.8 | 41.8 | 41.8 |
| 65° | 26.8 | 29.9 | 35.8 | 41.8 | 41.8 |
| 66° | 26.8 | 29.9 | 35.8 | 41.8 | 41.8 |
| 67.5° | 26.8 | 29.9 | 35.8 | 41.8 | 41.8 |
| 70° | 26.8 | 29.9 | 35.8 | 38.7 | 38.7 |
| 72.5° | 23.9 | 26.8 | 32.8 | 38.7 | 38.7 |
| 75° | 23.9 | 26.8 | 32.8 | 38.7 | 38.7 |
| 77.5° | 23.9 | 26.8 | 32.8 | 38.7 | 38.7 |
| 80° | 23.9 | 26.8 | 32.8 | 35.8 | 38.7 |
| 82.5° | 20.8 | 26.8 | 29.9 | 35.8 | 35.8 |
| 85° | 20.8 | 23.9 | 29.9 | 32.8 | 35.8 |
| 87.5° | 17.9 | 20.8 | 23.9 | 29.9 | 29.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)