

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: P165422

Luminaire Tested: **VTS-F09-LED-E1-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165422
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-F09-LED-E1-SL4-HSS
Description: VENTUS LED SITE LUMINAIRE
(9) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14937.4 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.5' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

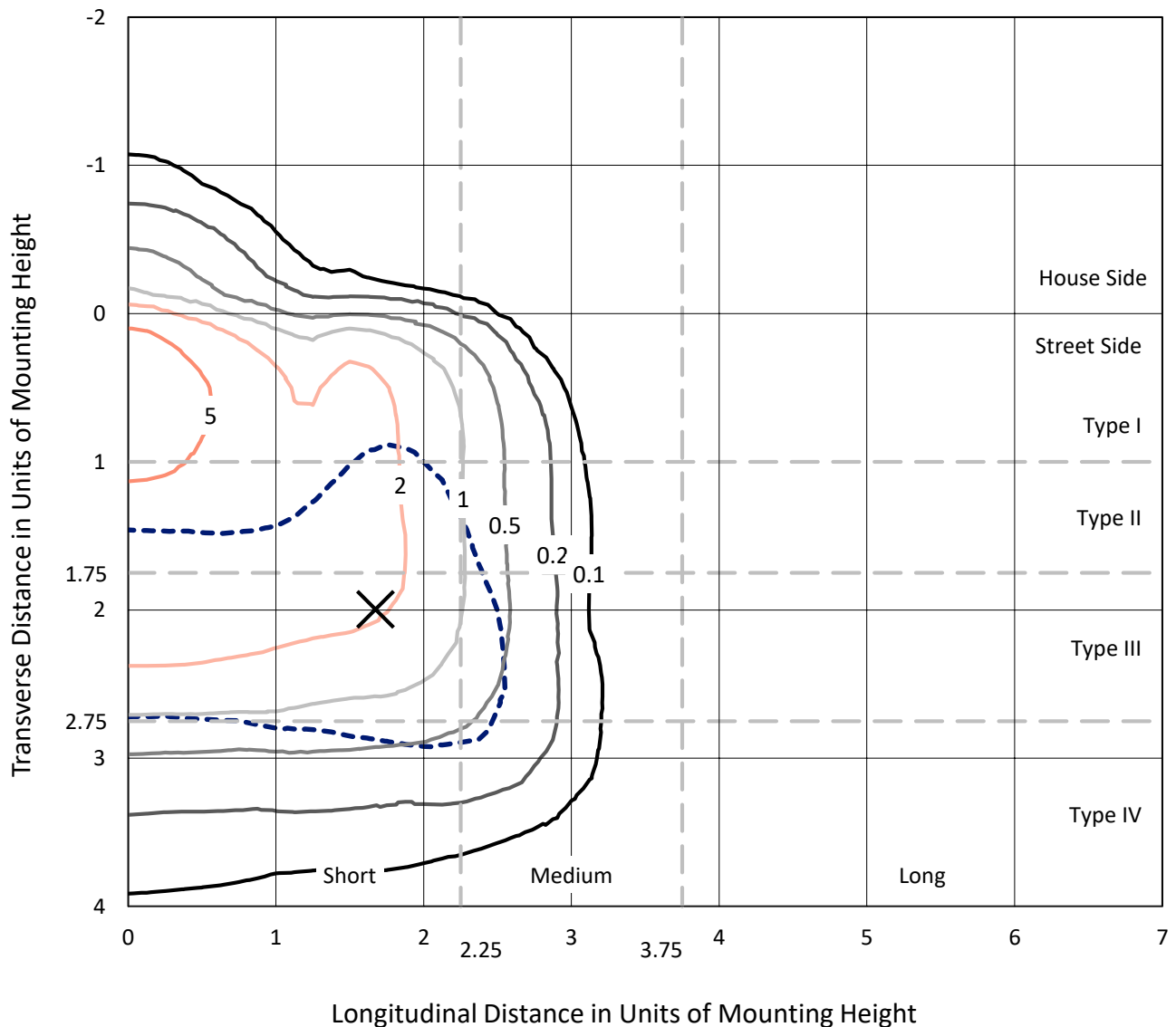
Input Watts (W): 234.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

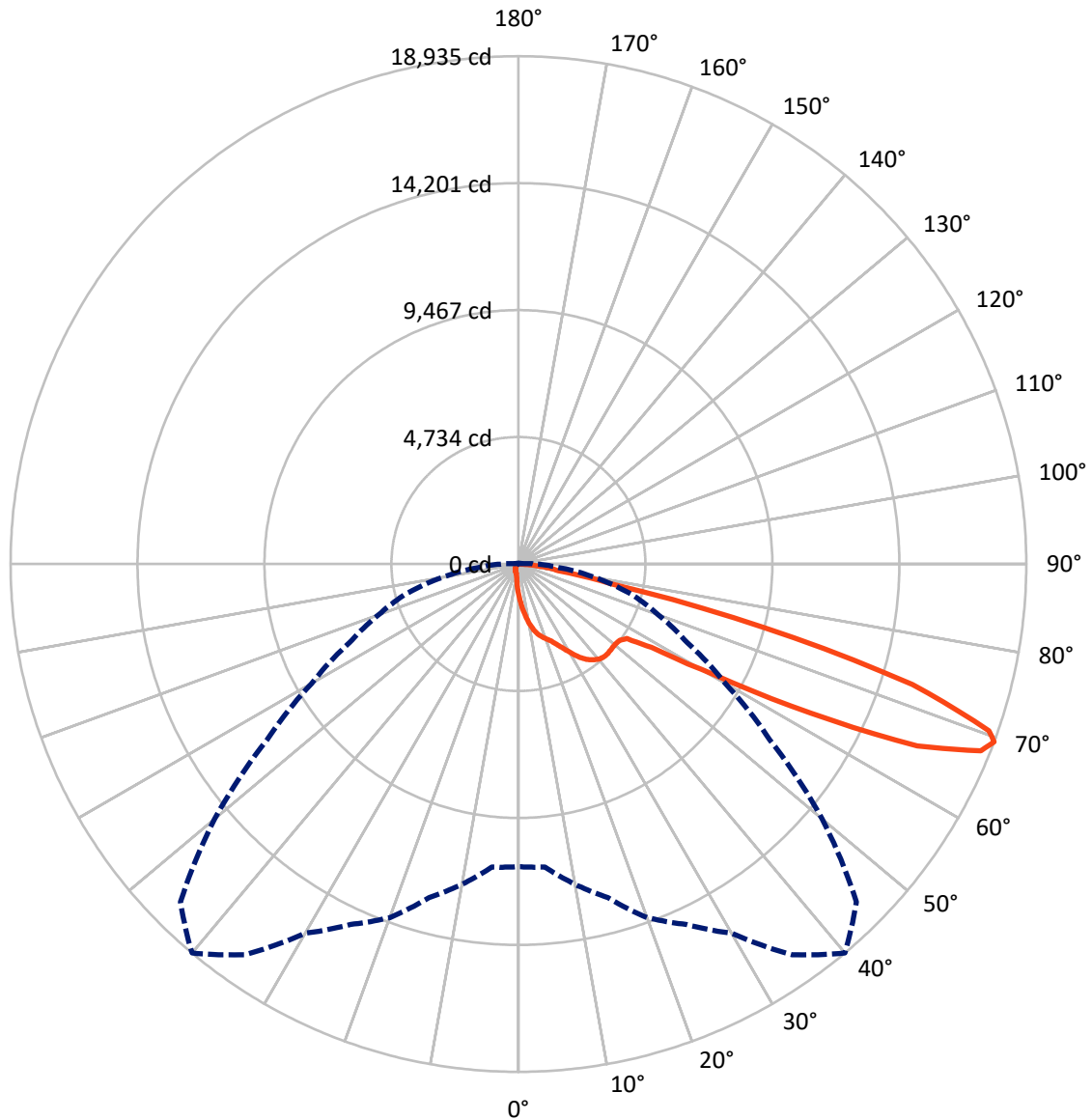


Based on 20 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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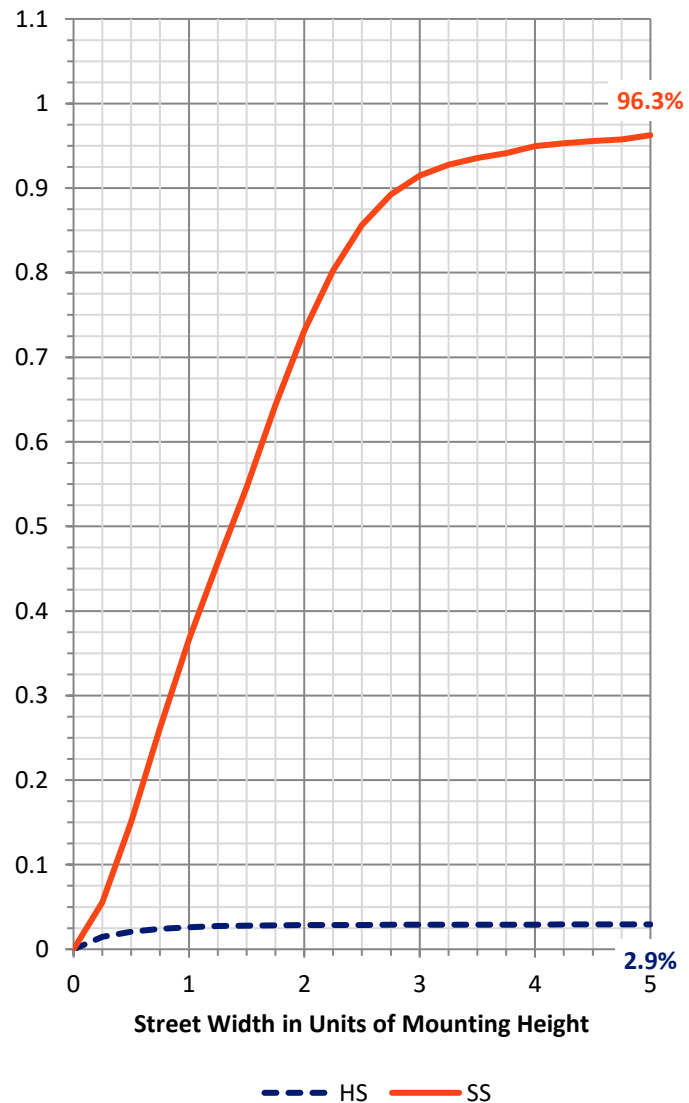
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 444.8 | 0.0 | 444.8 |
| | % Fixture | 3.0 | 0.0 | 3.0 |
| Street Side | Lumens | 14492.6 | 0.0 | 14492.6 |
| | % Fixture | 97.0 | 0.0 | 97.0 |
| Total | Lumens | 14937.4 | 0.0 | 14937.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 115.9 | 0.8 |
| 10°-20° | 399.8 | 2.7 |
| 20°-30° | 765.1 | 5.1 |
| 30°-40° | 1272.4 | 8.5 |
| 40°-50° | 1721.8 | 11.5 |
| 50°-60° | 2692.7 | 18.0 |
| 60°-70° | 5536.1 | 37.1 |
| 70°-80° | 2227.6 | 14.9 |
| 80°-90° | 206.1 | 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° | 14937.4 | 100.0 |
| 0°-180° | 14937.4 | 100.0 |



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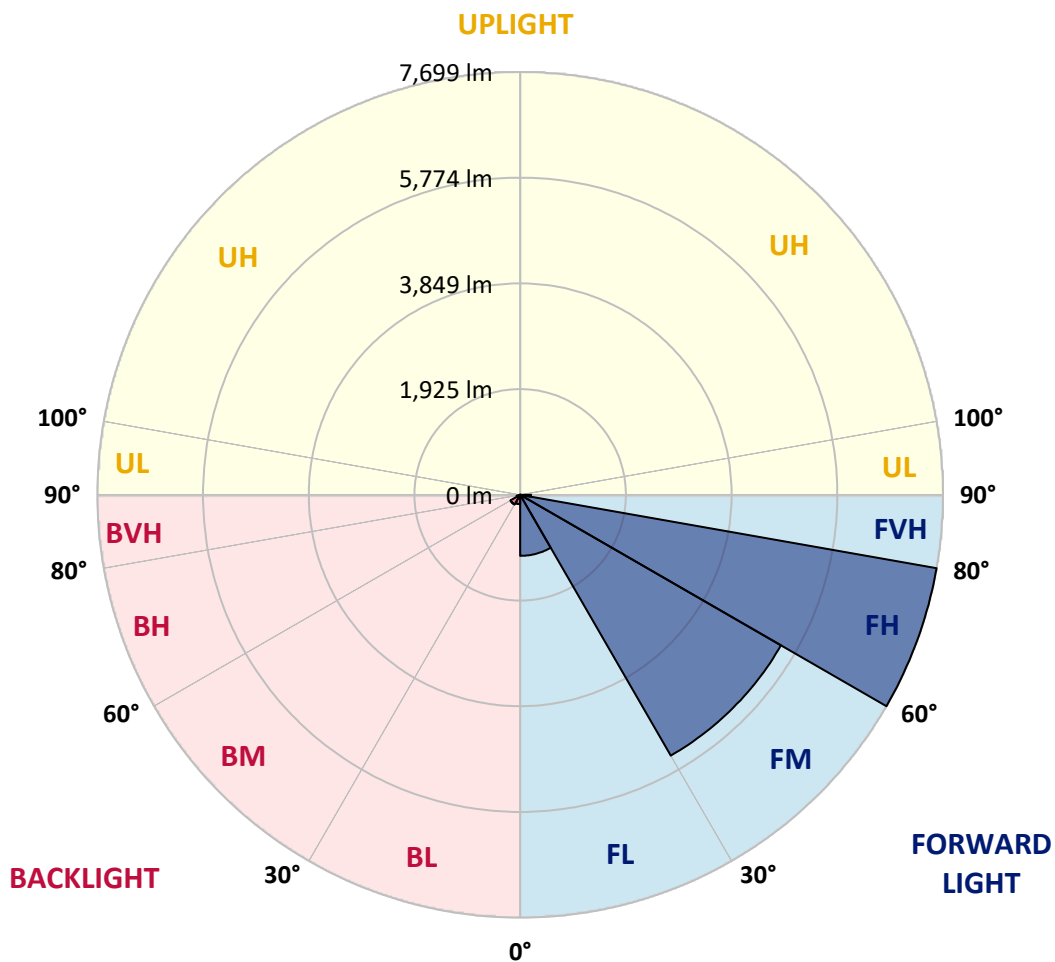
CATALOG NUMBER: VTS-F09-LED-E1-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1111.6 | 7.4 | | | |
| FM (30°-60°) | 5483.7 | 36.7 | | | |
| FH (60°-80°) | 7698.8 | 51.5 | | | G4/12000 |
| FVH (80°-90°) | 198.4 | 1.3 | | | G2/225 |
| BL (0°-30°) | 169.2 | 1.1 | B1/500 | | |
| BM (30°-60°) | 203.1 | 1.4 | B0/220 | | |
| BH (60°-80°) | 64.9 | 0.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 7.7 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1128.1 | 1128.1 | 1128.1 | 1128.1 | 1128.1 | 1128.1 | 1128.1 | 1128.1 | 1128.1 | 1128.1 | 1128.1 |
| 2.5° | 1505.0 | 1487.7 | 1468.1 | 1468.1 | 1443.7 | 1443.7 | 1429.0 | 1390.0 | 1385.0 | 1362.9 | 1340.9 |
| 5° | 1920.9 | 1906.2 | 1881.8 | 1859.7 | 1840.2 | 1805.9 | 1781.4 | 1734.8 | 1683.6 | 1634.5 | 1590.6 |
| 7.5° | 2327.1 | 2319.7 | 2275.7 | 2268.3 | 2236.5 | 2180.3 | 2131.3 | 2062.8 | 1974.7 | 1906.2 | 1825.5 |
| 10° | 2704.0 | 2686.7 | 2676.9 | 2635.3 | 2589.0 | 2527.7 | 2451.8 | 2368.7 | 2265.9 | 2158.2 | 2043.2 |
| 12.5° | 3002.5 | 2992.7 | 2948.6 | 2931.5 | 2882.6 | 2821.4 | 2726.0 | 2618.2 | 2515.6 | 2376.0 | 2241.4 |
| 15° | 3225.1 | 3208.0 | 3178.6 | 3151.7 | 3093.0 | 3039.2 | 2951.1 | 2833.5 | 2708.9 | 2557.2 | 2395.6 |
| 17.5° | 3411.1 | 3379.3 | 3371.9 | 3330.3 | 3269.2 | 3205.5 | 3107.7 | 3000.0 | 2853.2 | 2701.4 | 2525.2 |
| 20° | 3660.6 | 3616.6 | 3601.9 | 3540.7 | 3469.8 | 3381.7 | 3269.2 | 3134.6 | 2980.4 | 2814.1 | 2632.9 |
| 22.5° | 3954.2 | 3922.4 | 3890.6 | 3836.9 | 3746.4 | 3621.5 | 3457.6 | 3310.8 | 3115.0 | 2931.5 | 2735.8 |
| 25° | 4370.3 | 4343.4 | 4292.0 | 4218.6 | 4106.0 | 3956.8 | 3758.5 | 3543.2 | 3313.2 | 3078.3 | 2848.3 |
| 27.5° | 4774.0 | 4749.5 | 4712.8 | 4656.7 | 4529.3 | 4365.4 | 4120.7 | 3846.7 | 3555.4 | 3271.6 | 3017.1 |
| 30° | 5153.4 | 5131.3 | 5094.6 | 5038.4 | 4925.8 | 4764.2 | 4487.7 | 4194.1 | 3832.0 | 3501.6 | 3195.8 |
| 32.5° | 5562.0 | 5554.6 | 5513.0 | 5432.3 | 5334.4 | 5116.7 | 4815.7 | 4500.0 | 4133.0 | 3751.3 | 3393.9 |
| 35° | 6024.5 | 5968.1 | 5929.1 | 5848.2 | 5682.0 | 5449.4 | 5097.1 | 4752.1 | 4365.4 | 3973.9 | 3575.0 |
| 37.5° | 6416.0 | 6362.2 | 6313.2 | 6210.5 | 6007.4 | 5711.2 | 5312.4 | 4933.0 | 4534.2 | 4135.4 | 3729.1 |
| 40° | 6702.2 | 6675.3 | 6616.6 | 6482.0 | 6254.5 | 5902.2 | 5471.4 | 5057.9 | 4656.7 | 4255.3 | 3853.9 |
| 42.5° | 6915.1 | 6873.5 | 6807.6 | 6668.0 | 6398.9 | 5997.6 | 5535.0 | 5109.3 | 4712.8 | 4328.7 | 3934.8 |
| 45° | 6993.5 | 6959.3 | 6898.1 | 6746.3 | 6455.1 | 6024.5 | 5532.6 | 5094.6 | 4715.3 | 4350.7 | 3988.6 |
| 47.5° | 6946.9 | 6912.8 | 6858.8 | 6716.9 | 6430.7 | 5992.7 | 5488.6 | 5053.0 | 4690.8 | 4358.1 | 4037.5 |
| 50° | 6792.8 | 6773.2 | 6731.6 | 6611.7 | 6354.8 | 5931.4 | 5449.4 | 5031.0 | 4685.9 | 4394.8 | 4106.0 |
| 52.5° | 6778.1 | 6766.0 | 6714.5 | 6594.6 | 6332.8 | 5911.8 | 5444.5 | 5043.3 | 4727.5 | 4441.3 | 4155.0 |
| 55° | 8283.0 | 8109.2 | 7720.2 | 7389.9 | 6846.6 | 6200.7 | 5691.6 | 5241.4 | 4903.8 | 4624.9 | 4424.1 |
| 57.5° | 11772.4 | 11513.1 | 11001.6 | 10372.8 | 9124.7 | 7898.8 | 6917.7 | 6208.0 | 5858.0 | 5730.8 | 5806.6 |
| 60° | 13406.9 | 13360.6 | 13279.7 | 12981.2 | 12342.6 | 11288.0 | 10113.3 | 8843.5 | 8334.4 | 8290.4 | 8444.5 |
| 62.5° | 14182.7 | 14153.3 | 14177.8 | 14141.1 | 13942.9 | 13634.6 | 13296.8 | 12748.8 | 12244.6 | 11919.2 | 11229.1 |
| 65° | 14540.0 | 14559.6 | 14699.0 | 14809.1 | 14833.6 | 14914.3 | 15161.5 | 15844.2 | 16343.3 | 15504.1 | 13588.1 |
| 67.5° | 13632.1 | 13747.1 | 14067.7 | 14468.9 | 14938.8 | 15393.9 | 16128.0 | 17566.8 | 18592.1 | 17606.1 | 14885.0 |
| 69° | 11285.5 | 11341.8 | 12124.7 | 12880.9 | 14028.5 | 14831.2 | 15895.6 | 17782.2 | 18934.8 | 17821.4 | 14782.2 |
| 70° | 8884.9 | 8936.3 | 9775.7 | 10803.4 | 12743.9 | 13776.5 | 15168.8 | 17417.7 | 18614.1 | 17535.0 | 14253.6 |
| 72.5° | 4008.2 | 3934.8 | 4230.8 | 4781.3 | 6890.6 | 8530.2 | 10964.9 | 14111.7 | 15357.2 | 14048.1 | 10663.9 |
| 75° | 2799.4 | 2767.6 | 2799.4 | 2801.7 | 3129.7 | 4037.5 | 5094.6 | 7649.2 | 9460.0 | 8163.2 | 5094.6 |
| 77.5° | 2168.0 | 2146.0 | 2124.0 | 2099.5 | 2138.7 | 2395.6 | 2498.3 | 2713.6 | 3523.6 | 3332.8 | 1942.9 |
| 80° | 1715.4 | 1695.8 | 1749.6 | 1732.5 | 1732.5 | 1761.9 | 1742.3 | 1661.4 | 1509.7 | 1399.6 | 1252.8 |
| 82.5° | 797.7 | 802.6 | 802.6 | 871.1 | 1049.8 | 1225.9 | 1282.2 | 1201.5 | 1066.9 | 907.8 | 731.7 |
| 85° | 75.8 | 85.6 | 144.4 | 222.7 | 443.0 | 499.1 | 501.7 | 415.9 | 415.9 | 327.9 | 264.2 |
| 87.5° | 0.0 | 2.4 | 2.4 | 2.4 | 22.0 | 61.2 | 51.4 | 14.7 | 7.3 | 7.3 | 12.2 |
| 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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CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1128.1 | 1128.1 | 1128.1 | 1128.1 | 1128.1 | 1128.1 | 1128.1 | 1128.1 | 1128.1 | 1128.1 | 1128.1 |
| 2.5° | 1301.8 | 1294.4 | 1265.1 | 1235.7 | 1208.8 | 1179.4 | 1152.5 | 1125.6 | 1096.2 | 1074.2 | 1047.3 |
| 5° | 1522.1 | 1468.1 | 1407.0 | 1348.3 | 1289.5 | 1228.4 | 1164.8 | 1108.5 | 1049.8 | 995.9 | 944.5 |
| 7.5° | 1744.6 | 1639.4 | 1556.2 | 1451.0 | 1355.6 | 1260.2 | 1172.1 | 1081.6 | 998.4 | 920.1 | 846.7 |
| 10° | 1933.1 | 1805.9 | 1676.1 | 1541.7 | 1404.5 | 1277.3 | 1155.0 | 1047.3 | 937.2 | 841.8 | 751.3 |
| 12.5° | 2087.3 | 1925.8 | 1766.8 | 1597.8 | 1443.7 | 1282.2 | 1130.5 | 1000.8 | 871.1 | 763.5 | 670.5 |
| 15° | 2226.7 | 2040.8 | 1849.9 | 1654.2 | 1458.5 | 1274.9 | 1106.0 | 944.5 | 812.4 | 690.1 | 584.9 |
| 17.5° | 2339.3 | 2126.4 | 1911.1 | 1690.9 | 1480.4 | 1265.1 | 1074.2 | 905.4 | 751.3 | 623.9 | 521.3 |
| 20° | 2437.2 | 2214.5 | 1982.1 | 1734.8 | 1495.2 | 1262.6 | 1047.3 | 856.5 | 697.4 | 562.9 | 462.4 |
| 22.5° | 2527.7 | 2305.0 | 2055.5 | 1791.2 | 1517.1 | 1260.2 | 1022.8 | 819.8 | 650.8 | 516.4 | 415.9 |
| 25° | 2630.6 | 2395.6 | 2133.8 | 1849.9 | 1556.2 | 1270.0 | 1008.2 | 790.4 | 609.2 | 472.2 | 379.2 |
| 27.5° | 2745.6 | 2498.3 | 2226.7 | 1923.3 | 1607.6 | 1289.5 | 1003.3 | 758.6 | 572.5 | 430.6 | 349.9 |
| 30° | 2907.0 | 2620.8 | 2319.7 | 1996.7 | 1654.2 | 1311.6 | 998.4 | 739.0 | 535.8 | 398.8 | 320.5 |
| 32.5° | 3049.0 | 2740.7 | 2422.5 | 2072.6 | 1705.6 | 1333.6 | 995.9 | 712.1 | 501.7 | 367.0 | 298.5 |
| 35° | 3198.2 | 2850.8 | 2510.7 | 2146.0 | 1749.6 | 1358.0 | 993.5 | 692.5 | 469.9 | 335.2 | 276.5 |
| 37.5° | 3327.9 | 2943.7 | 2579.2 | 2209.6 | 1798.6 | 1380.1 | 995.9 | 675.4 | 440.4 | 308.3 | 256.9 |
| 40° | 3438.0 | 3039.2 | 2654.9 | 2268.3 | 1849.9 | 1414.3 | 998.4 | 658.3 | 411.2 | 283.8 | 239.8 |
| 42.5° | 3536.0 | 3129.7 | 2735.8 | 2334.4 | 1908.7 | 1453.6 | 1013.1 | 643.6 | 386.6 | 261.8 | 222.7 |
| 45° | 3611.7 | 3212.9 | 2823.7 | 2427.4 | 2004.1 | 1517.1 | 1040.0 | 633.8 | 362.1 | 242.2 | 208.0 |
| 47.5° | 3690.0 | 3335.2 | 2973.1 | 2574.3 | 2143.6 | 1617.5 | 1086.5 | 631.4 | 342.5 | 227.5 | 195.7 |
| 50° | 3797.8 | 3457.6 | 3105.2 | 2723.4 | 2270.8 | 1720.3 | 1142.7 | 633.8 | 318.1 | 212.9 | 183.5 |
| 52.5° | 3876.1 | 3582.3 | 3276.5 | 2982.9 | 2574.3 | 2033.4 | 1360.5 | 677.7 | 305.8 | 200.6 | 168.8 |
| 55° | 4338.5 | 4287.1 | 4294.4 | 4343.4 | 4027.8 | 3460.0 | 2275.7 | 978.8 | 359.7 | 227.5 | 166.4 |
| 57.5° | 6117.5 | 6298.5 | 6403.7 | 6401.3 | 5880.0 | 4876.9 | 3056.3 | 1257.7 | 401.4 | 264.2 | 198.2 |
| 60° | 8456.8 | 8319.8 | 8126.5 | 7649.2 | 6956.7 | 5566.9 | 3418.4 | 1353.2 | 347.4 | 210.4 | 181.1 |
| 62.5° | 10524.5 | 9721.8 | 9009.7 | 8236.6 | 7328.7 | 5806.6 | 3491.8 | 1345.8 | 303.4 | 159.0 | 127.2 |
| 65° | 11814.0 | 10370.3 | 9220.3 | 8251.2 | 7181.9 | 5606.0 | 3303.4 | 1235.7 | 256.9 | 129.7 | 105.2 |
| 67.5° | 12122.3 | 10020.3 | 8393.2 | 7157.4 | 5999.9 | 4363.0 | 2424.9 | 929.9 | 200.6 | 107.7 | 93.0 |
| 69° | 11449.4 | 8907.1 | 6954.4 | 5552.2 | 4365.4 | 2894.8 | 1500.1 | 587.2 | 154.1 | 97.9 | 85.6 |
| 70° | 10531.8 | 7747.1 | 5664.7 | 4455.9 | 3232.5 | 2033.4 | 1049.8 | 413.5 | 124.8 | 90.5 | 78.3 |
| 72.5° | 6775.8 | 4069.3 | 2784.7 | 1938.0 | 1333.6 | 810.0 | 411.2 | 186.0 | 95.4 | 75.8 | 63.6 |
| 75° | 2628.0 | 1505.0 | 1091.4 | 829.5 | 648.5 | 450.2 | 249.6 | 119.9 | 80.7 | 63.6 | 48.9 |
| 77.5° | 1294.4 | 991.0 | 810.0 | 555.4 | 323.0 | 200.6 | 134.6 | 93.0 | 66.1 | 46.5 | 31.8 |
| 80° | 1022.8 | 680.3 | 406.3 | 252.0 | 190.8 | 144.4 | 102.8 | 75.8 | 48.9 | 29.4 | 22.0 |
| 82.5° | 523.6 | 286.3 | 210.4 | 171.3 | 141.9 | 112.6 | 83.2 | 53.8 | 31.8 | 19.6 | 17.1 |
| 85° | 163.9 | 119.9 | 107.7 | 105.2 | 97.9 | 80.7 | 58.7 | 34.3 | 19.6 | 12.2 | 12.2 |
| 87.5° | 12.2 | 17.1 | 22.0 | 17.1 | 19.6 | 17.1 | 22.0 | 14.7 | 9.8 | 9.8 | 7.3 |
| 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-F09-LED-E1-SL4-HSS

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1128.1 | 1128.1 | 1128.1 | 1128.1 | 1128.1 | 1128.1 | 1128.1 | 1128.1 | 1128.1 | 1128.1 | 1128.1 |
| 2.5° | 1027.7 | 998.4 | 971.5 | 954.3 | 922.5 | 910.3 | 898.1 | 893.2 | 871.1 | 876.0 | 856.5 |
| 5° | 898.1 | 846.7 | 807.5 | 768.4 | 731.7 | 704.8 | 682.6 | 655.7 | 633.8 | 623.9 | 604.3 |
| 7.5° | 780.6 | 714.6 | 663.2 | 621.6 | 577.4 | 543.3 | 513.8 | 494.2 | 474.8 | 455.1 | 445.3 |
| 10° | 677.7 | 606.9 | 548.2 | 506.6 | 465.0 | 435.5 | 413.5 | 398.8 | 386.6 | 379.2 | 376.8 |
| 12.5° | 582.3 | 513.8 | 460.0 | 423.3 | 391.5 | 376.8 | 367.0 | 359.7 | 357.2 | 354.8 | 354.8 |
| 15° | 508.9 | 440.4 | 398.8 | 371.9 | 357.2 | 349.9 | 347.4 | 342.5 | 337.8 | 335.2 | 335.2 |
| 17.5° | 440.4 | 389.0 | 359.7 | 345.0 | 337.8 | 332.9 | 327.9 | 323.0 | 318.1 | 315.6 | 315.6 |
| 20° | 393.9 | 352.3 | 337.8 | 327.9 | 320.5 | 315.6 | 308.3 | 303.4 | 301.1 | 298.5 | 296.1 |
| 22.5° | 357.2 | 330.3 | 320.5 | 313.2 | 303.4 | 296.1 | 291.2 | 286.3 | 281.4 | 278.9 | 276.5 |
| 25° | 330.3 | 313.2 | 305.8 | 296.1 | 286.3 | 278.9 | 271.6 | 264.2 | 259.4 | 256.9 | 252.0 |
| 27.5° | 310.7 | 298.5 | 288.7 | 276.5 | 266.7 | 259.4 | 252.0 | 244.7 | 239.8 | 234.9 | 232.4 |
| 30° | 293.6 | 281.4 | 269.1 | 259.4 | 247.1 | 239.8 | 230.0 | 222.7 | 220.2 | 215.3 | 210.4 |
| 32.5° | 276.5 | 264.2 | 252.0 | 239.8 | 227.5 | 217.8 | 212.9 | 203.1 | 198.2 | 195.7 | 190.8 |
| 35° | 256.9 | 244.7 | 230.0 | 220.2 | 208.0 | 198.2 | 190.8 | 183.5 | 178.6 | 173.7 | 171.3 |
| 37.5° | 239.8 | 225.1 | 210.4 | 198.2 | 188.4 | 178.6 | 171.3 | 163.9 | 159.0 | 154.1 | 151.7 |
| 40° | 220.2 | 205.5 | 190.8 | 178.6 | 168.8 | 161.5 | 154.1 | 146.8 | 141.9 | 139.5 | 139.5 |
| 42.5° | 203.1 | 186.0 | 171.3 | 161.5 | 154.1 | 144.4 | 137.0 | 129.7 | 127.2 | 124.8 | 127.2 |
| 45° | 186.0 | 168.8 | 156.6 | 146.8 | 139.5 | 129.7 | 122.3 | 117.4 | 115.0 | 117.4 | 119.9 |
| 47.5° | 171.3 | 154.1 | 141.9 | 134.6 | 127.2 | 119.9 | 112.6 | 107.7 | 107.7 | 112.6 | 117.4 |
| 50° | 156.6 | 139.5 | 129.7 | 124.8 | 117.4 | 110.1 | 100.3 | 97.9 | 100.3 | 105.2 | 110.1 |
| 52.5° | 141.9 | 122.3 | 115.0 | 112.6 | 105.2 | 97.9 | 90.5 | 88.1 | 90.5 | 95.4 | 93.0 |
| 55° | 127.2 | 107.7 | 105.2 | 102.8 | 95.4 | 85.6 | 78.3 | 78.3 | 78.3 | 75.8 | 71.0 |
| 57.5° | 122.3 | 95.4 | 93.0 | 90.5 | 83.2 | 73.4 | 68.5 | 63.6 | 61.2 | 53.8 | 51.4 |
| 60° | 127.2 | 85.6 | 85.6 | 80.7 | 73.4 | 63.6 | 56.3 | 48.9 | 44.0 | 39.1 | 39.1 |
| 62.5° | 102.8 | 78.3 | 75.8 | 71.0 | 61.2 | 51.4 | 44.0 | 36.7 | 34.3 | 31.8 | 31.8 |
| 65° | 83.2 | 71.0 | 66.1 | 58.7 | 51.4 | 41.6 | 34.3 | 29.4 | 26.9 | 26.9 | 29.4 |
| 67.5° | 75.8 | 63.6 | 56.3 | 48.9 | 41.6 | 31.8 | 26.9 | 24.5 | 24.5 | 26.9 | 26.9 |
| 69° | 71.0 | 58.7 | 51.4 | 44.0 | 36.7 | 29.4 | 24.5 | 24.5 | 24.5 | 24.5 | 26.9 |
| 70° | 66.1 | 56.3 | 48.9 | 41.6 | 31.8 | 24.5 | 22.0 | 22.0 | 24.5 | 24.5 | 26.9 |
| 72.5° | 51.4 | 44.0 | 41.6 | 34.3 | 24.5 | 22.0 | 19.6 | 22.0 | 22.0 | 24.5 | 24.5 |
| 75° | 39.1 | 31.8 | 31.8 | 26.9 | 19.6 | 17.1 | 17.1 | 19.6 | 19.6 | 22.0 | 22.0 |
| 77.5° | 26.9 | 22.0 | 22.0 | 19.6 | 17.1 | 14.7 | 14.7 | 17.1 | 19.6 | 19.6 | 22.0 |
| 80° | 19.6 | 17.1 | 14.7 | 17.1 | 14.7 | 12.2 | 14.7 | 17.1 | 17.1 | 19.6 | 19.6 |
| 82.5° | 14.7 | 14.7 | 14.7 | 14.7 | 12.2 | 12.2 | 14.7 | 14.7 | 17.1 | 19.6 | 19.6 |
| 85° | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 14.7 | 14.7 | 17.1 | 17.1 |
| 87.5° | 7.3 | 7.3 | 7.3 | 9.8 | 9.8 | 12.2 | 12.2 | 12.2 | 12.2 | 14.7 | 14.7 |
| 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: P165422

CATALOG NUMBER: VTS-F09-LED-E1-SL4-HSS

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1128.1 | 1128.1 | 1128.1 | 1128.1 |
| 2.5° | 851.6 | 849.1 | 839.3 | 841.8 |
| 5° | 597.1 | 582.3 | 592.1 | 589.8 |
| 7.5° | 438.1 | 435.5 | 433.2 | 438.1 |
| 10° | 374.5 | 374.5 | 371.9 | 374.5 |
| 12.5° | 352.3 | 352.3 | 352.3 | 352.3 |
| 15° | 335.2 | 335.2 | 332.9 | 332.9 |
| 17.5° | 315.6 | 315.6 | 315.6 | 313.2 |
| 20° | 296.1 | 293.6 | 293.6 | 293.6 |
| 22.5° | 274.0 | 271.6 | 271.6 | 271.6 |
| 25° | 252.0 | 249.6 | 249.6 | 249.6 |
| 27.5° | 230.0 | 227.5 | 225.1 | 225.1 |
| 30° | 208.0 | 205.5 | 203.1 | 203.1 |
| 32.5° | 186.0 | 183.5 | 181.1 | 181.1 |
| 35° | 166.4 | 166.4 | 163.9 | 161.5 |
| 37.5° | 149.3 | 149.3 | 149.3 | 149.3 |
| 40° | 137.0 | 139.5 | 139.5 | 139.5 |
| 42.5° | 129.7 | 132.1 | 134.6 | 137.0 |
| 45° | 124.8 | 129.7 | 132.1 | 132.1 |
| 47.5° | 122.3 | 124.8 | 127.2 | 127.2 |
| 50° | 112.6 | 110.1 | 110.1 | 110.1 |
| 52.5° | 90.5 | 85.6 | 83.2 | 80.7 |
| 55° | 66.1 | 63.6 | 58.7 | 58.7 |
| 57.5° | 46.5 | 46.5 | 44.0 | 44.0 |
| 60° | 36.7 | 36.7 | 34.3 | 36.7 |
| 62.5° | 31.8 | 31.8 | 31.8 | 31.8 |
| 65° | 29.4 | 29.4 | 29.4 | 29.4 |
| 67.5° | 29.4 | 29.4 | 29.4 | 29.4 |
| 69° | 26.9 | 26.9 | 26.9 | 26.9 |
| 70° | 26.9 | 26.9 | 26.9 | 26.9 |
| 72.5° | 24.5 | 24.5 | 24.5 | 24.5 |
| 75° | 22.0 | 24.5 | 24.5 | 24.5 |
| 77.5° | 22.0 | 22.0 | 22.0 | 22.0 |
| 80° | 19.6 | 19.6 | 22.0 | 22.0 |
| 82.5° | 19.6 | 19.6 | 19.6 | 19.6 |
| 85° | 17.1 | 17.1 | 19.6 | 19.6 |
| 87.5° | 14.7 | 14.7 | 17.1 | 17.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)