

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: P158537

Luminaire Tested: **VTS-F02-LED-E1-SL4-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158537
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33714)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F02-LED-E1-SL4-7060
Description: VENTUS LED SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (14) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

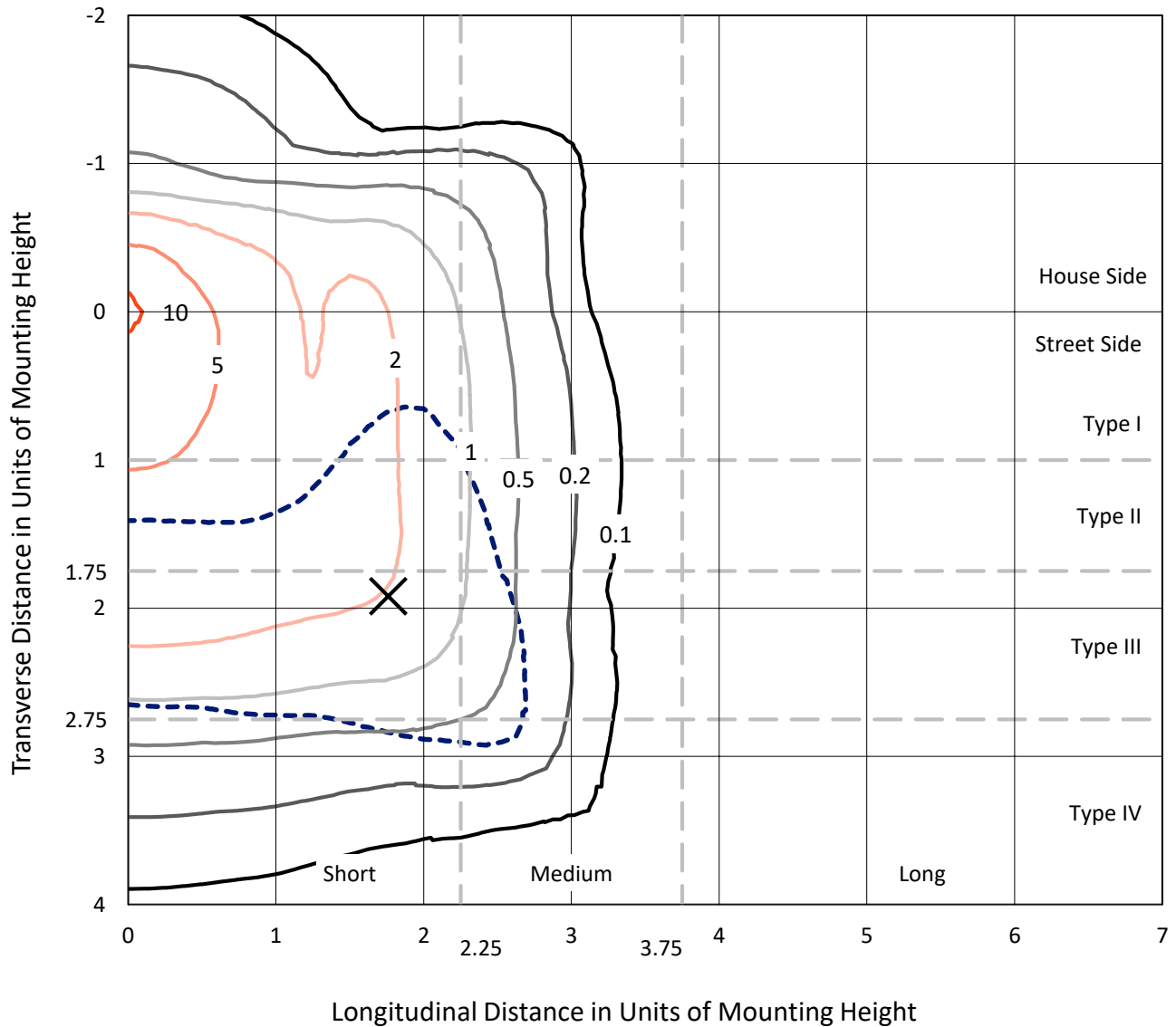
Lumens per Lamp: N/A
Luminaire Lumens: 4914.6 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 55
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: P158537
 CATALOG NUMBER: VTS-F02-LED-E1-SL4-7060

Iso-Footcandle Lines of Horizontal Illumination

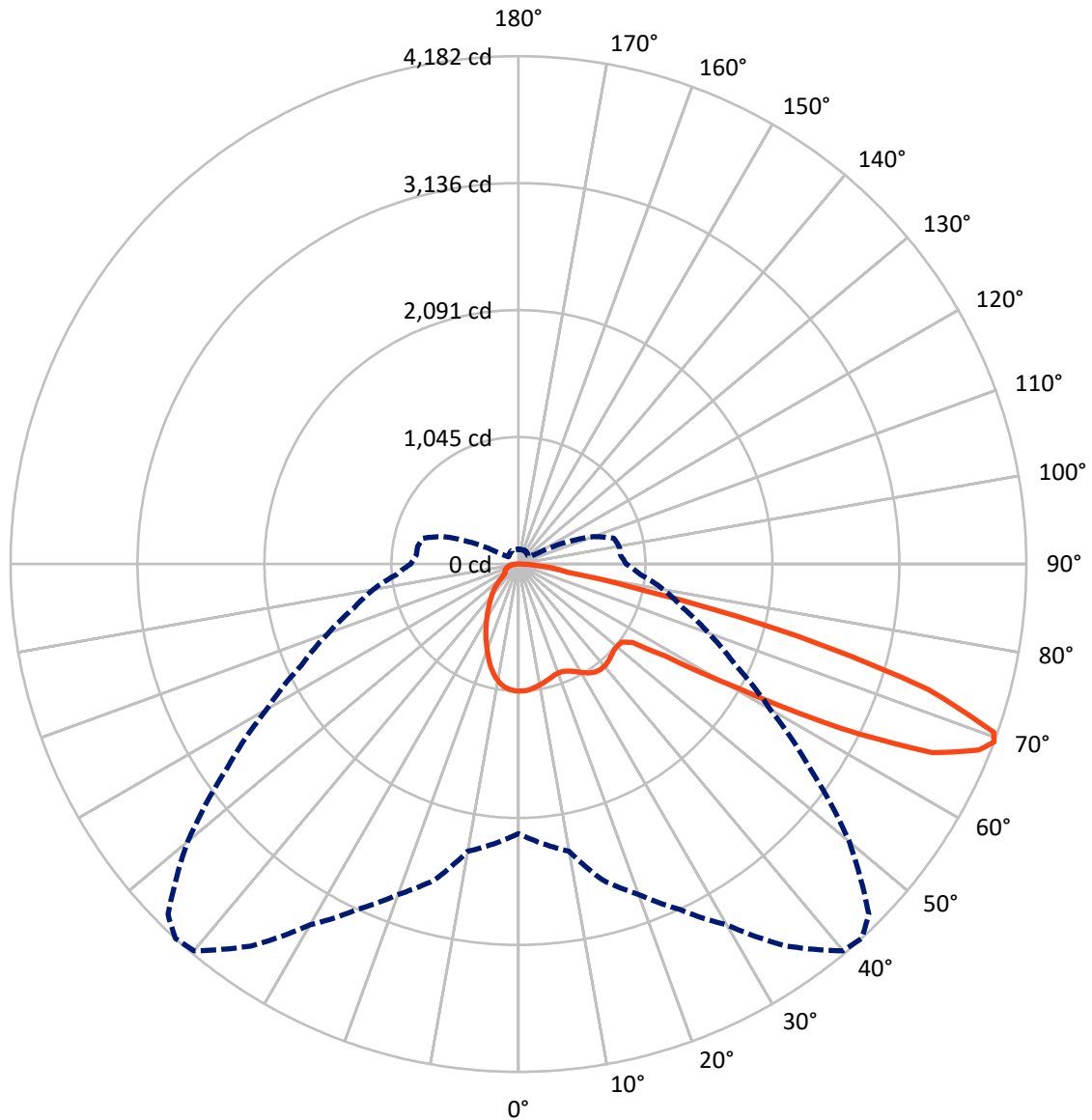
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - Full Cutoff

REPORT NUMBER: P158537
CATALOG NUMBER: VTS-F02-LED-E1-SL4-7060

Luminous Intensity Polar Plot



— Vertical Plane Through 42.5-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P158537

CATALOG NUMBER: VTS-F02-LED-E1-SL4-7060

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1092.6 | 0.0 | 1092.6 |
| | % Fixture | 22.2 | 0.0 | 22.2 |
| Street Side | Lumens | 3822.0 | 0.0 | 3822.0 |
| | % Fixture | 77.8 | 0.0 | 77.8 |
| Total | Lumens | 4914.6 | 0.0 | 4914.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 97.4 | 2.0 |
| 10°-20° | 262.6 | 5.3 |
| 20°-30° | 382.9 | 7.8 |
| 30°-40° | 488.1 | 9.9 |
| 40°-50° | 568.0 | 11.6 |
| 50°-60° | 864.1 | 17.6 |
| 60°-70° | 1526.5 | 31.1 |
| 70°-80° | 629.9 | 12.8 |
| 80°-90° | 95.1 | 1.9 |
| 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° | 4914.6 | 100.0 |
| 0°-180° | 4914.6 | 100.0 |



REPORT NUMBER: P158537

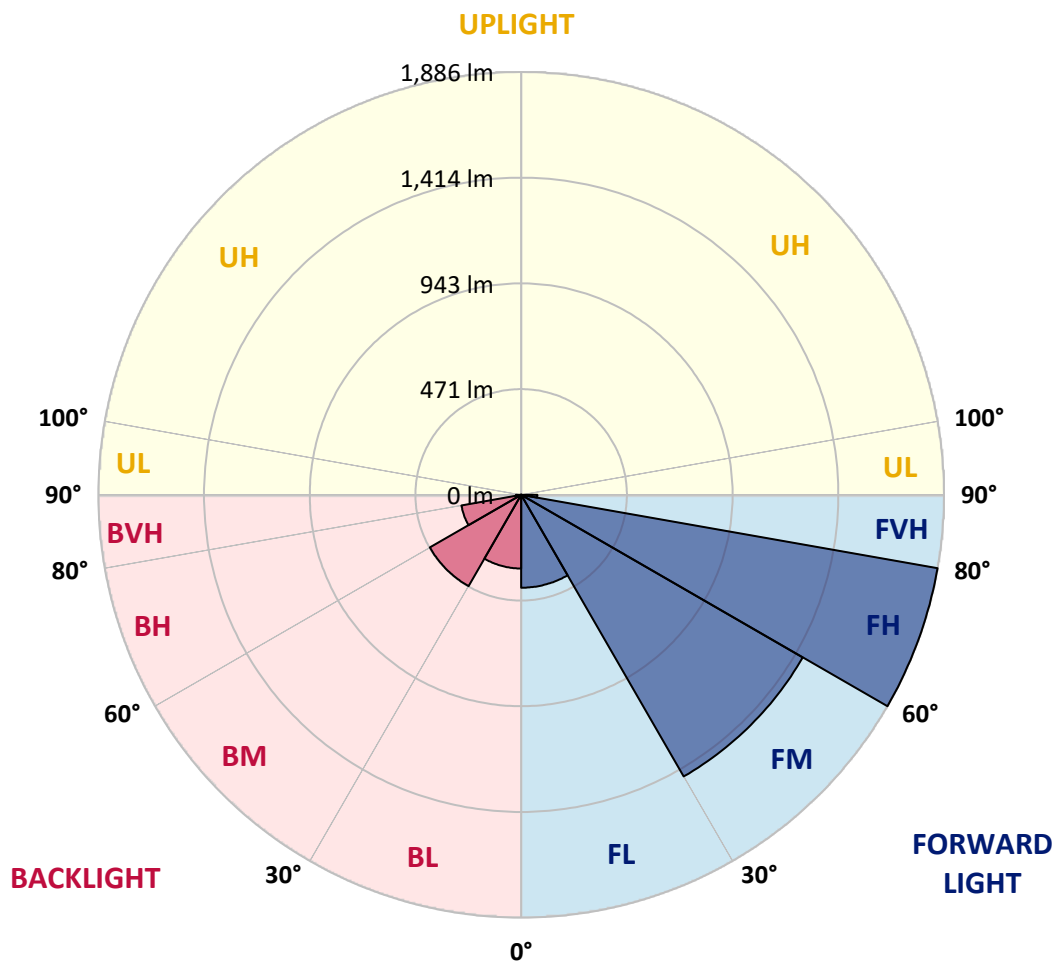
CATALOG NUMBER: VTS-F02-LED-E1-SL4-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 414.4 | 8.4 | | | |
| FM | (30°-60°) | 1449.9 | 29.5 | | | |
| FH | (60°-80°) | 1885.7 | 38.4 | | | G2/5000 |
| FVH | (80°-90°) | 71.9 | 1.5 | | | G1/100 |
| BL | (0°-30°) | 328.5 | 6.7 | B1/500 | | |
| BM | (30°-60°) | 470.3 | 9.6 | B1/1000 | | |
| BH | (60°-80°) | 270.6 | 5.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 23.2 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P158537

CATALOG NUMBER: VTS-F02-LED-E1-SL4-7060

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 42.5° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1046.6 | 1046.6 | 1046.6 | 1046.6 | 1046.6 | 1046.6 | 1046.6 | 1046.6 | 1046.6 | 1046.6 | 1046.6 |
| 2.5° | 1043.3 | 1047.0 | 1045.6 | 1045.6 | 1046.6 | 1045.0 | 1045.0 | 1045.6 | 1043.9 | 1045.0 | 1044.6 |
| 5° | 1039.5 | 1041.6 | 1040.9 | 1040.9 | 1040.9 | 1039.5 | 1038.9 | 1038.5 | 1036.1 | 1036.1 | 1035.1 |
| 7.5° | 1031.4 | 1032.1 | 1033.1 | 1031.7 | 1031.4 | 1031.1 | 1028.7 | 1027.3 | 1024.6 | 1022.3 | 1022.9 |
| 10° | 1020.6 | 1020.2 | 1021.9 | 1020.9 | 1019.5 | 1018.5 | 1016.5 | 1014.1 | 1011.1 | 1008.0 | 1007.7 |
| 12.5° | 1008.4 | 1008.0 | 1009.4 | 1008.7 | 1007.7 | 1005.6 | 1004.0 | 999.9 | 995.1 | 991.4 | 991.1 |
| 15° | 1000.6 | 999.5 | 1000.9 | 999.5 | 997.9 | 995.8 | 992.8 | 987.7 | 979.2 | 975.5 | 972.4 |
| 17.5° | 1008.0 | 1006.3 | 1007.0 | 1005.3 | 1002.9 | 997.5 | 990.4 | 979.6 | 967.4 | 960.9 | 956.2 |
| 20° | 1034.1 | 1031.1 | 1031.7 | 1030.0 | 1024.6 | 1017.5 | 1004.0 | 985.0 | 964.3 | 953.8 | 946.4 |
| 22.5° | 1071.4 | 1069.0 | 1070.0 | 1068.3 | 1062.9 | 1052.1 | 1031.7 | 1004.6 | 975.2 | 959.9 | 948.0 |
| 25° | 1128.0 | 1130.0 | 1130.7 | 1122.9 | 1119.8 | 1099.8 | 1071.7 | 1034.1 | 994.8 | 976.8 | 960.6 |
| 27.5° | 1191.7 | 1191.7 | 1194.7 | 1191.7 | 1185.6 | 1162.2 | 1122.5 | 1077.1 | 1026.7 | 1002.3 | 982.6 |
| 30° | 1253.7 | 1253.0 | 1258.8 | 1258.1 | 1248.3 | 1221.8 | 1176.8 | 1121.5 | 1063.9 | 1036.5 | 1011.4 |
| 32.5° | 1319.4 | 1321.4 | 1325.2 | 1323.8 | 1310.9 | 1274.3 | 1220.1 | 1160.2 | 1099.5 | 1069.3 | 1041.2 |
| 35° | 1390.6 | 1391.6 | 1392.9 | 1392.3 | 1366.2 | 1320.1 | 1252.0 | 1184.9 | 1121.9 | 1092.0 | 1062.9 |
| 37.5° | 1461.7 | 1460.7 | 1459.0 | 1444.4 | 1414.6 | 1350.6 | 1271.3 | 1199.1 | 1133.0 | 1100.9 | 1070.7 |
| 40° | 1525.4 | 1519.7 | 1514.2 | 1491.5 | 1445.8 | 1367.9 | 1278.7 | 1202.5 | 1132.0 | 1098.8 | 1069.3 |
| 42.5° | 1560.3 | 1553.9 | 1542.7 | 1514.2 | 1458.7 | 1369.6 | 1273.7 | 1192.3 | 1121.5 | 1088.7 | 1059.5 |
| 45° | 1566.8 | 1562.0 | 1551.2 | 1519.3 | 1455.6 | 1358.7 | 1258.1 | 1175.7 | 1105.9 | 1073.1 | 1045.6 |
| 47.5° | 1551.5 | 1547.8 | 1537.3 | 1505.8 | 1442.4 | 1342.4 | 1240.1 | 1158.1 | 1090.7 | 1059.9 | 1033.4 |
| 50° | 1528.1 | 1524.7 | 1516.6 | 1487.8 | 1427.5 | 1331.3 | 1231.0 | 1149.0 | 1085.6 | 1057.5 | 1033.1 |
| 52.5° | 1566.1 | 1568.8 | 1545.1 | 1513.6 | 1443.4 | 1341.1 | 1241.1 | 1158.5 | 1094.8 | 1067.0 | 1041.6 |
| 55° | 2156.0 | 2152.2 | 2009.6 | 1890.0 | 1676.2 | 1482.4 | 1337.7 | 1233.7 | 1165.6 | 1137.8 | 1114.1 |
| 57.5° | 2801.4 | 2788.6 | 2730.0 | 2618.1 | 2388.4 | 2081.8 | 1802.9 | 1565.7 | 1472.2 | 1432.2 | 1434.9 |
| 60° | 3012.2 | 3016.9 | 3004.4 | 2964.8 | 2882.4 | 2722.8 | 2510.7 | 2332.5 | 2157.0 | 2071.3 | 2081.1 |
| 62.5° | 3129.1 | 3137.6 | 3148.4 | 3139.6 | 3112.8 | 3075.9 | 3049.1 | 3065.4 | 3041.0 | 2979.3 | 2930.2 |
| 65° | 3145.4 | 3162.6 | 3198.6 | 3227.0 | 3240.9 | 3275.8 | 3357.8 | 3554.3 | 3733.9 | 3745.8 | 3659.4 |
| 67.5° | 2823.5 | 2871.2 | 2949.2 | 3081.0 | 3193.8 | 3317.8 | 3515.7 | 3814.6 | 4079.5 | 4088.3 | 4007.7 |
| 69° | 2220.0 | 2311.8 | 2403.0 | 2697.4 | 2895.6 | 3138.6 | 3431.3 | 3839.6 | 4157.1 | 4181.5 | 4079.9 |
| 70° | 1778.9 | 1833.4 | 1912.0 | 2207.8 | 2504.0 | 2813.6 | 3237.9 | 3756.9 | 4103.9 | 4153.0 | 4040.9 |
| 72.5° | 1068.0 | 1089.0 | 1116.1 | 1222.2 | 1374.6 | 1650.4 | 2212.9 | 3063.0 | 3461.8 | 3527.6 | 3384.9 |
| 75° | 690.5 | 689.2 | 691.6 | 721.0 | 729.8 | 782.7 | 959.9 | 1575.9 | 2258.3 | 2377.6 | 2206.8 |
| 77.5° | 520.1 | 524.8 | 517.4 | 520.1 | 517.7 | 532.0 | 537.4 | 564.2 | 891.5 | 1098.1 | 981.9 |
| 80° | 459.1 | 461.5 | 461.8 | 460.5 | 443.9 | 442.5 | 451.3 | 436.1 | 405.2 | 411.3 | 394.1 |
| 82.5° | 261.9 | 261.6 | 264.6 | 287.7 | 297.2 | 328.3 | 341.2 | 348.3 | 321.5 | 301.6 | 272.8 |
| 85° | 169.8 | 171.1 | 174.5 | 181.6 | 174.5 | 177.2 | 174.2 | 180.3 | 165.3 | 153.5 | 137.2 |
| 87.5° | 69.5 | 69.5 | 73.9 | 80.3 | 74.9 | 73.5 | 63.0 | 62.3 | 52.9 | 47.8 | 37.3 |
| 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: P158537

CATALOG NUMBER: VTS-F02-LED-E1-SL4-7060

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1046.6 | 1046.6 | 1046.6 | 1046.6 | 1046.6 | 1046.6 | 1046.6 | 1046.6 | 1046.6 | 1046.6 | 1046.6 |
| 2.5° | 1042.6 | 1044.6 | 1043.6 | 1045.0 | 1043.9 | 1043.9 | 1042.6 | 1042.2 | 1043.3 | 1041.9 | 1042.2 |
| 5° | 1033.4 | 1033.8 | 1032.1 | 1032.8 | 1030.7 | 1030.0 | 1029.0 | 1026.3 | 1028.0 | 1026.3 | 1027.0 |
| 7.5° | 1020.2 | 1019.2 | 1016.8 | 1013.4 | 1011.1 | 1010.1 | 1008.0 | 1004.3 | 1005.0 | 1001.9 | 1003.6 |
| 10° | 1003.3 | 999.9 | 995.8 | 990.7 | 987.4 | 984.3 | 979.9 | 975.5 | 973.1 | 970.4 | 970.1 |
| 12.5° | 984.3 | 980.2 | 974.8 | 967.0 | 959.6 | 954.5 | 947.7 | 939.9 | 937.5 | 933.1 | 930.8 |
| 15° | 963.6 | 957.2 | 950.8 | 941.9 | 933.8 | 926.0 | 916.9 | 907.0 | 900.6 | 893.8 | 888.8 |
| 17.5° | 945.0 | 937.5 | 929.1 | 920.6 | 911.8 | 902.3 | 890.8 | 878.6 | 869.1 | 856.6 | 846.4 |
| 20° | 930.4 | 920.9 | 912.5 | 903.7 | 893.8 | 882.3 | 868.4 | 852.8 | 836.9 | 823.0 | 811.2 |
| 22.5° | 924.7 | 909.8 | 899.6 | 890.8 | 881.0 | 867.4 | 850.5 | 832.2 | 812.9 | 793.5 | 778.0 |
| 25° | 929.4 | 907.4 | 891.5 | 881.0 | 872.5 | 858.6 | 839.6 | 817.3 | 794.9 | 771.9 | 750.8 |
| 27.5° | 943.3 | 915.2 | 892.1 | 875.5 | 865.7 | 851.8 | 831.8 | 808.1 | 781.7 | 755.9 | 730.2 |
| 30° | 965.0 | 928.4 | 899.3 | 875.9 | 860.6 | 844.7 | 823.7 | 796.3 | 769.5 | 740.0 | 711.9 |
| 32.5° | 986.0 | 942.3 | 907.4 | 877.2 | 853.9 | 833.2 | 809.8 | 782.7 | 753.9 | 723.1 | 693.9 |
| 35° | 1000.9 | 951.4 | 910.4 | 874.2 | 843.3 | 817.6 | 792.5 | 765.4 | 737.3 | 705.8 | 676.0 |
| 37.5° | 1008.0 | 956.5 | 910.8 | 866.1 | 829.5 | 801.0 | 774.2 | 747.5 | 721.0 | 691.2 | 663.1 |
| 40° | 1007.7 | 956.2 | 906.0 | 855.5 | 812.9 | 782.7 | 756.3 | 730.2 | 705.4 | 679.4 | 653.9 |
| 42.5° | 1000.2 | 950.8 | 899.3 | 845.4 | 801.0 | 767.5 | 740.0 | 714.9 | 693.9 | 670.9 | 649.5 |
| 45° | 988.7 | 941.6 | 892.1 | 840.6 | 797.6 | 764.1 | 734.9 | 710.5 | 691.9 | 670.9 | 652.6 |
| 47.5° | 979.9 | 936.5 | 893.2 | 849.1 | 808.1 | 773.2 | 742.4 | 715.6 | 699.7 | 682.7 | 669.9 |
| 50° | 981.3 | 938.9 | 896.5 | 854.2 | 815.6 | 780.3 | 750.5 | 726.1 | 714.6 | 710.2 | 707.1 |
| 52.5° | 988.4 | 942.6 | 906.7 | 881.3 | 868.1 | 841.7 | 824.0 | 808.8 | 817.3 | 800.7 | 781.0 |
| 55° | 1079.2 | 1064.3 | 1099.2 | 1132.0 | 1173.7 | 1189.3 | 1174.4 | 1171.7 | 1185.2 | 1129.0 | 999.9 |
| 57.5° | 1454.3 | 1492.9 | 1546.8 | 1575.2 | 1609.8 | 1600.6 | 1566.1 | 1537.3 | 1503.4 | 1437.7 | 1276.7 |
| 60° | 2092.3 | 2063.1 | 2038.7 | 1970.0 | 1913.7 | 1848.0 | 1774.8 | 1712.1 | 1652.1 | 1557.6 | 1383.4 |
| 62.5° | 2749.6 | 2547.3 | 2378.2 | 2214.9 | 2083.5 | 1974.4 | 1868.3 | 1774.1 | 1683.3 | 1551.5 | 1364.1 |
| 65° | 3318.2 | 2892.3 | 2574.8 | 2335.2 | 2143.1 | 1977.4 | 1841.2 | 1711.1 | 1595.6 | 1441.0 | 1255.7 |
| 67.5° | 3573.6 | 3040.0 | 2578.2 | 2234.9 | 1968.9 | 1744.0 | 1567.8 | 1371.2 | 1241.8 | 1142.9 | 1038.5 |
| 69° | 3554.7 | 2927.2 | 2394.2 | 1971.7 | 1666.0 | 1403.8 | 1214.7 | 1009.7 | 885.7 | 843.7 | 841.3 |
| 70° | 3464.5 | 2736.1 | 2179.4 | 1757.9 | 1408.2 | 1147.6 | 966.3 | 782.4 | 666.8 | 638.0 | 689.2 |
| 72.5° | 2828.6 | 1933.4 | 1365.8 | 1042.9 | 802.0 | 634.0 | 517.1 | 410.3 | 327.6 | 283.9 | 293.4 |
| 75° | 1597.6 | 895.2 | 578.7 | 437.4 | 369.7 | 305.6 | 262.3 | 223.6 | 202.3 | 164.3 | 130.1 |
| 77.5° | 580.8 | 384.2 | 305.6 | 264.3 | 187.4 | 129.1 | 108.1 | 94.5 | 85.7 | 85.7 | 81.7 |
| 80° | 367.3 | 289.4 | 201.9 | 138.2 | 102.3 | 89.1 | 77.9 | 68.4 | 63.0 | 61.7 | 63.0 |
| 82.5° | 229.4 | 177.2 | 113.2 | 86.7 | 72.8 | 65.4 | 56.9 | 49.8 | 45.4 | 44.4 | 46.4 |
| 85° | 113.2 | 87.8 | 68.8 | 61.3 | 57.6 | 53.5 | 47.1 | 40.3 | 39.0 | 41.7 | 48.8 |
| 87.5° | 33.9 | 30.2 | 24.7 | 25.8 | 27.1 | 26.4 | 21.0 | 18.3 | 17.3 | 22.7 | 35.6 |
| 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: P158537

CATALOG NUMBER: VTS-F02-LED-E1-SL4-7060

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1046.6 | 1046.6 | 1046.6 | 1046.6 | 1046.6 | 1046.6 | 1046.6 | 1046.6 | 1046.6 | 1046.6 | 1046.6 |
| 2.5° | 1042.9 | 1042.6 | 1043.3 | 1042.2 | 1042.9 | 1043.3 | 1042.6 | 1045.6 | 1043.6 | 1043.9 | 1045.3 |
| 5° | 1027.7 | 1027.0 | 1029.7 | 1029.0 | 1030.4 | 1031.7 | 1031.1 | 1035.5 | 1033.8 | 1035.1 | 1037.8 |
| 7.5° | 1002.3 | 1003.6 | 1004.0 | 1004.0 | 1006.7 | 1011.1 | 1012.1 | 1014.8 | 1014.8 | 1018.5 | 1021.2 |
| 10° | 968.4 | 968.7 | 970.7 | 970.4 | 973.8 | 978.5 | 979.2 | 984.0 | 985.7 | 991.8 | 995.5 |
| 12.5° | 929.1 | 927.4 | 927.0 | 926.7 | 931.1 | 936.2 | 936.9 | 945.0 | 948.4 | 953.8 | 959.9 |
| 15° | 885.0 | 880.6 | 879.3 | 882.0 | 881.0 | 884.0 | 887.1 | 891.5 | 896.2 | 907.0 | 912.5 |
| 17.5° | 842.0 | 833.2 | 830.8 | 827.8 | 824.7 | 824.7 | 826.1 | 831.5 | 841.3 | 847.1 | 859.3 |
| 20° | 797.9 | 787.4 | 779.0 | 770.8 | 763.7 | 761.0 | 761.4 | 768.1 | 775.2 | 784.7 | 796.3 |
| 22.5° | 761.0 | 745.1 | 730.5 | 719.7 | 705.1 | 704.8 | 702.7 | 704.8 | 712.6 | 714.9 | 721.4 |
| 25° | 729.2 | 707.8 | 688.2 | 670.5 | 656.3 | 648.9 | 646.8 | 646.1 | 642.4 | 641.4 | 636.7 |
| 27.5° | 704.4 | 678.7 | 653.3 | 631.9 | 614.3 | 604.1 | 591.3 | 582.1 | 568.9 | 565.5 | 557.0 |
| 30° | 684.1 | 656.3 | 628.5 | 600.7 | 580.8 | 562.5 | 540.8 | 524.8 | 504.5 | 491.3 | 479.8 |
| 32.5° | 664.4 | 636.3 | 608.2 | 580.8 | 549.9 | 521.5 | 493.0 | 468.3 | 445.6 | 425.2 | 408.3 |
| 35° | 648.2 | 621.4 | 593.0 | 559.7 | 520.4 | 479.4 | 445.2 | 417.1 | 385.9 | 364.6 | 343.2 |
| 37.5° | 637.7 | 613.3 | 584.8 | 539.1 | 488.6 | 444.5 | 405.6 | 371.4 | 339.5 | 307.3 | 283.3 |
| 40° | 632.9 | 611.6 | 576.0 | 520.1 | 460.8 | 412.0 | 369.0 | 331.0 | 290.4 | 254.1 | 228.4 |
| 42.5° | 632.6 | 610.9 | 563.8 | 499.1 | 437.8 | 384.6 | 336.8 | 291.4 | 246.3 | 209.1 | 183.6 |
| 45° | 638.7 | 609.9 | 550.9 | 481.5 | 417.4 | 361.9 | 304.9 | 249.7 | 199.2 | 171.4 | 157.9 |
| 47.5° | 655.0 | 611.6 | 540.4 | 465.2 | 398.1 | 334.4 | 268.4 | 204.0 | 162.3 | 149.4 | 149.4 |
| 50° | 684.1 | 621.4 | 537.7 | 453.7 | 378.8 | 302.6 | 223.6 | 164.7 | 143.7 | 143.7 | 147.7 |
| 52.5° | 728.8 | 642.1 | 542.5 | 445.6 | 354.8 | 260.6 | 176.2 | 142.0 | 137.9 | 141.6 | 147.1 |
| 55° | 831.8 | 678.7 | 548.9 | 431.7 | 318.2 | 206.7 | 145.4 | 134.2 | 135.9 | 140.3 | 145.4 |
| 57.5° | 1020.9 | 756.9 | 555.7 | 401.2 | 259.2 | 159.3 | 131.8 | 131.1 | 134.2 | 138.2 | 142.6 |
| 60° | 1145.2 | 856.6 | 573.0 | 355.1 | 196.2 | 131.5 | 125.0 | 129.1 | 132.8 | 136.2 | 139.6 |
| 62.5° | 1145.2 | 884.7 | 585.8 | 303.6 | 147.4 | 119.6 | 120.6 | 127.1 | 131.5 | 133.2 | 135.2 |
| 65° | 1072.1 | 833.2 | 542.1 | 247.3 | 119.9 | 112.8 | 116.6 | 123.0 | 127.1 | 128.4 | 130.1 |
| 67.5° | 936.9 | 735.9 | 456.7 | 186.4 | 107.1 | 107.1 | 111.8 | 116.6 | 119.9 | 122.7 | 125.4 |
| 69° | 814.5 | 660.4 | 402.2 | 157.9 | 102.0 | 102.7 | 107.4 | 111.5 | 115.5 | 118.9 | 122.3 |
| 70° | 726.5 | 603.8 | 364.2 | 143.3 | 98.9 | 99.3 | 104.0 | 108.4 | 112.2 | 115.9 | 119.9 |
| 72.5° | 389.0 | 417.1 | 276.8 | 117.6 | 91.1 | 92.2 | 96.6 | 100.6 | 104.0 | 107.7 | 111.5 |
| 75° | 132.5 | 179.2 | 176.2 | 96.2 | 82.3 | 85.0 | 87.8 | 91.5 | 95.9 | 98.3 | 100.3 |
| 77.5° | 77.6 | 80.3 | 93.9 | 78.3 | 74.2 | 75.6 | 78.6 | 81.7 | 85.4 | 87.8 | 89.5 |
| 80° | 65.1 | 64.7 | 65.1 | 63.7 | 64.7 | 67.8 | 69.8 | 73.9 | 77.3 | 77.9 | 77.6 |
| 82.5° | 52.9 | 55.6 | 55.9 | 55.2 | 58.3 | 60.7 | 62.3 | 64.7 | 64.4 | 65.1 | 66.4 |
| 85° | 47.1 | 46.8 | 49.1 | 49.5 | 49.5 | 47.8 | 48.1 | 48.1 | 48.1 | 49.1 | 49.5 |
| 87.5° | 47.1 | 39.3 | 30.5 | 27.4 | 28.8 | 27.1 | 25.8 | 25.4 | 28.1 | 30.8 | 30.2 |
| 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: P158537

CATALOG NUMBER: VTS-F02-LED-E1-SL4-7060

CANDELA DISTRIBUTION (continued):

| | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1046.6 | 1046.6 | 1046.6 | 1046.6 | 1046.6 |
| 2.5° | 1046.0 | 1047.0 | 1046.3 | 1046.3 | 1047.0 |
| 5° | 1038.9 | 1040.5 | 1039.9 | 1040.5 | 1040.5 |
| 7.5° | 1022.6 | 1025.0 | 1026.7 | 1028.3 | 1027.3 |
| 10° | 999.2 | 1003.3 | 1006.0 | 1008.0 | 1007.0 |
| 12.5° | 964.3 | 968.0 | 973.8 | 977.2 | 974.5 |
| 15° | 916.5 | 927.0 | 930.4 | 935.2 | 932.5 |
| 17.5° | 866.7 | 873.2 | 877.2 | 881.6 | 884.3 |
| 20° | 800.3 | 805.4 | 810.8 | 812.9 | 809.8 |
| 22.5° | 720.4 | 723.1 | 722.0 | 725.1 | 719.0 |
| 25° | 632.6 | 634.3 | 633.3 | 636.0 | 630.9 |
| 27.5° | 549.6 | 549.2 | 549.6 | 546.2 | 542.8 |
| 30° | 469.6 | 466.6 | 465.2 | 460.1 | 459.1 |
| 32.5° | 398.1 | 387.6 | 382.2 | 374.7 | 373.1 |
| 35° | 326.6 | 311.7 | 301.9 | 293.4 | 289.7 |
| 37.5° | 262.6 | 244.6 | 233.1 | 225.7 | 224.6 |
| 40° | 207.7 | 191.1 | 183.0 | 178.9 | 178.2 |
| 42.5° | 169.4 | 162.3 | 160.3 | 160.3 | 160.3 |
| 45° | 154.5 | 154.2 | 155.9 | 157.2 | 157.6 |
| 47.5° | 151.5 | 153.5 | 155.9 | 157.9 | 158.6 |
| 50° | 151.5 | 153.5 | 155.2 | 157.2 | 157.9 |
| 52.5° | 150.8 | 152.5 | 153.2 | 154.5 | 155.2 |
| 55° | 148.7 | 149.8 | 149.8 | 150.4 | 151.1 |
| 57.5° | 145.4 | 146.0 | 145.0 | 145.7 | 147.4 |
| 60° | 142.0 | 142.6 | 141.0 | 142.6 | 143.7 |
| 62.5° | 138.2 | 138.6 | 137.9 | 139.3 | 139.3 |
| 65° | 132.1 | 131.5 | 132.5 | 133.5 | 133.8 |
| 67.5° | 126.0 | 124.4 | 125.4 | 125.7 | 126.4 |
| 69° | 121.3 | 120.3 | 120.6 | 121.3 | 122.0 |
| 70° | 117.9 | 117.2 | 117.9 | 118.9 | 119.9 |
| 72.5° | 109.4 | 109.8 | 112.2 | 114.2 | 116.2 |
| 75° | 101.6 | 104.0 | 107.1 | 111.5 | 113.8 |
| 77.5° | 92.2 | 93.9 | 96.2 | 101.0 | 105.4 |
| 80° | 79.6 | 80.6 | 81.0 | 82.7 | 82.3 |
| 82.5° | 64.7 | 63.7 | 63.0 | 62.3 | 62.0 |
| 85° | 46.4 | 46.1 | 43.4 | 41.3 | 41.3 |
| 87.5° | 27.8 | 26.4 | 25.1 | 23.4 | 22.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)