

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: P159417

Luminaire Tested: **VTS-F02-LED-E1-T3-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159417
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33706)
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-T3-7060
Description: VENTUS LED SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (14) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5181.3 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

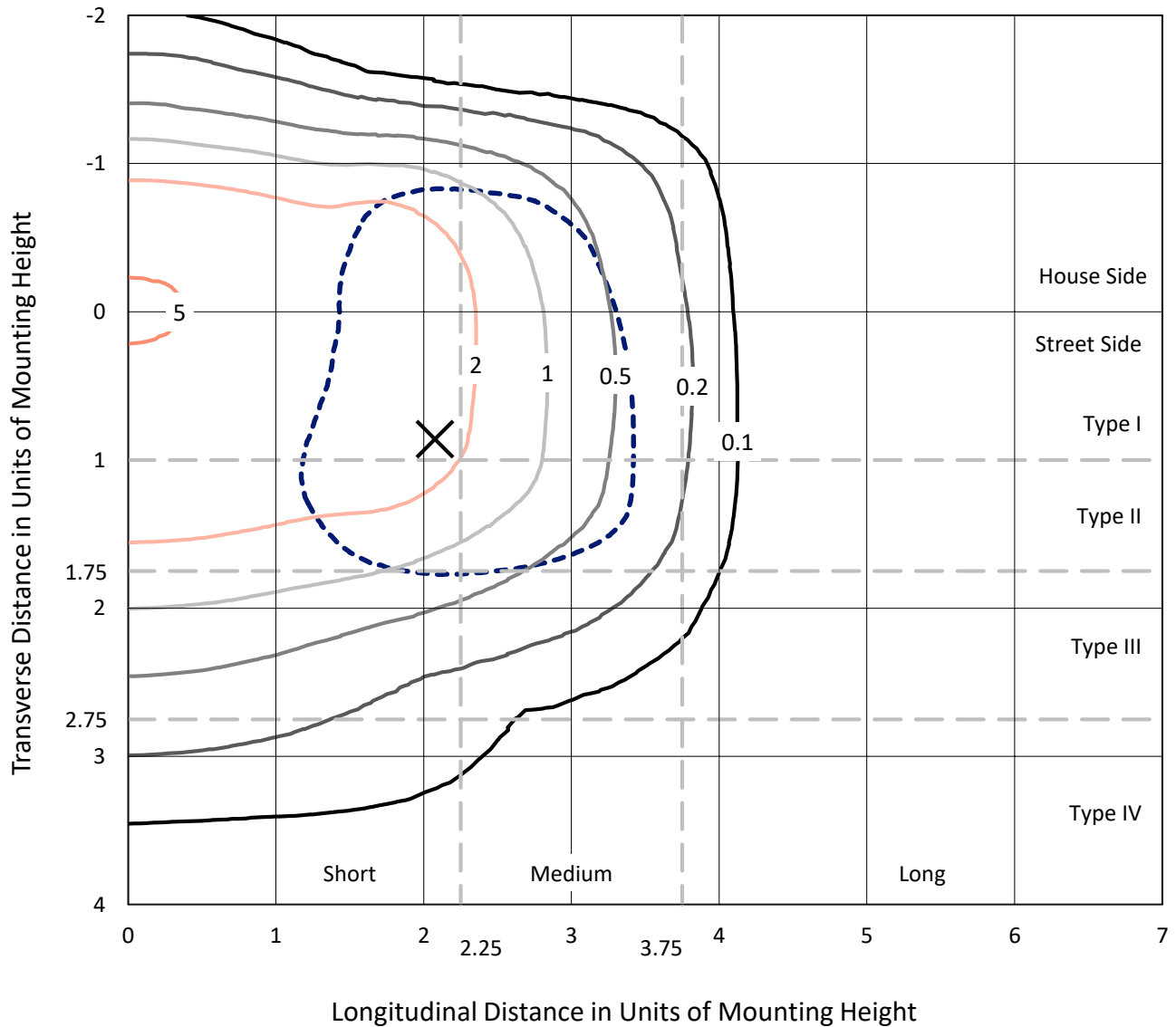
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

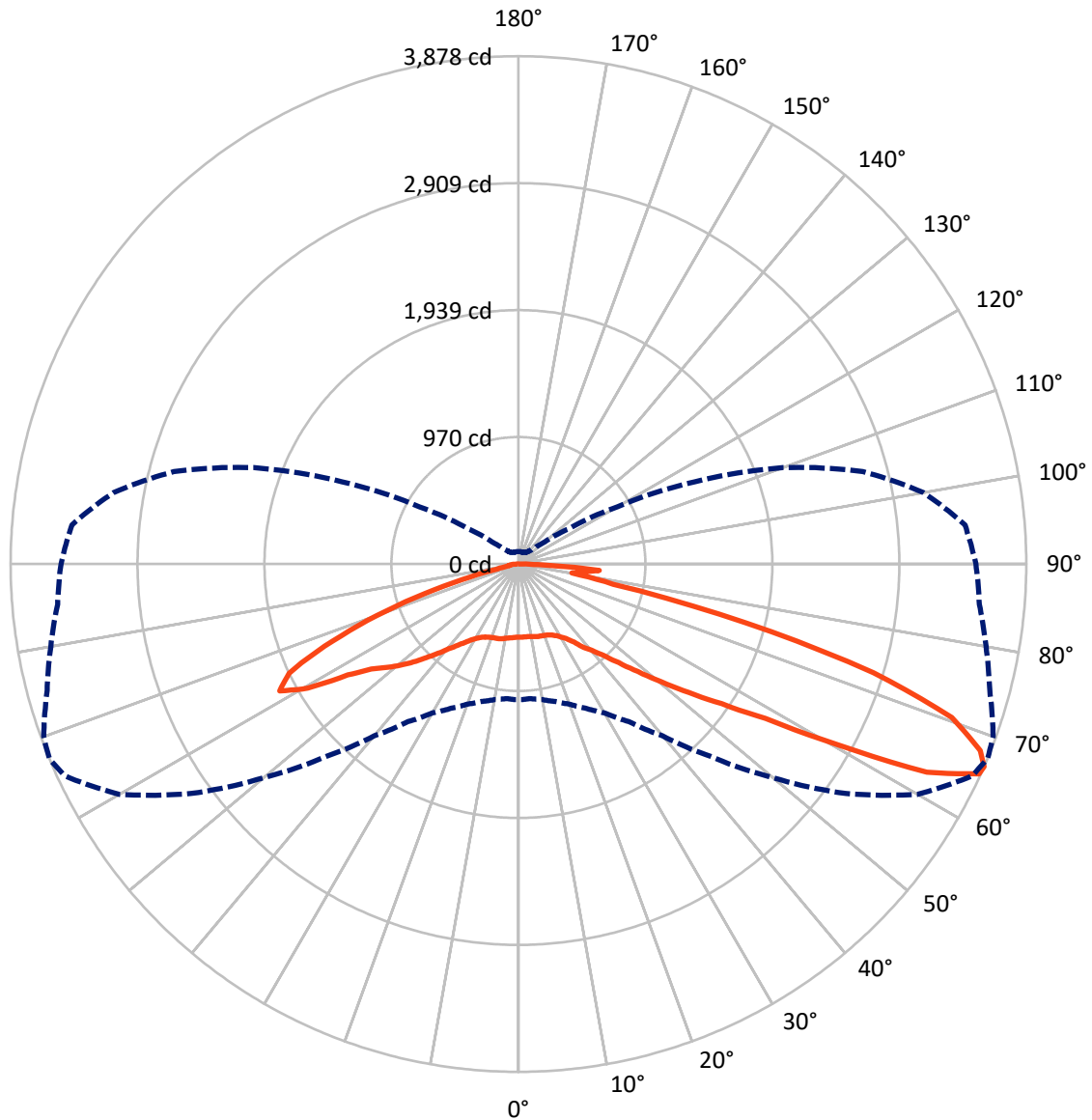


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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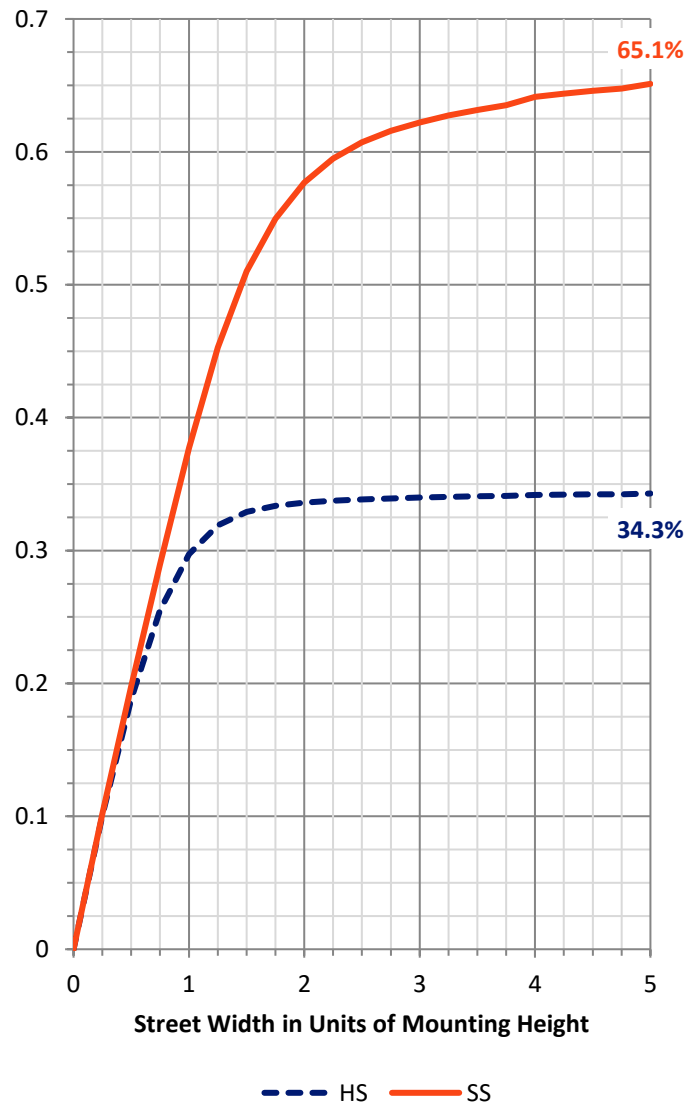
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1793.0 | 0.0 | 1793.0 |
| | % Fixture | 34.6 | 0.0 | 34.6 |
| Street Side | Lumens | 3388.4 | 0.0 | 3388.4 |
| | % Fixture | 65.4 | 0.0 | 65.4 |
| Total | Lumens | 5181.3 | 0.0 | 5181.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 53.7 | 1.0 |
| 10°-20° | 158.9 | 3.1 |
| 20°-30° | 273.1 | 5.3 |
| 30°-40° | 441.3 | 8.5 |
| 40°-50° | 731.4 | 14.1 |
| 50°-60° | 1147.9 | 22.2 |
| 60°-70° | 1569.4 | 30.3 |
| 70°-80° | 690.1 | 13.3 |
| 80°-90° | 115.5 | 2.2 |
| 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° | 5181.3 | 100.0 |
| 0°-180° | 5181.3 | 100.0 |



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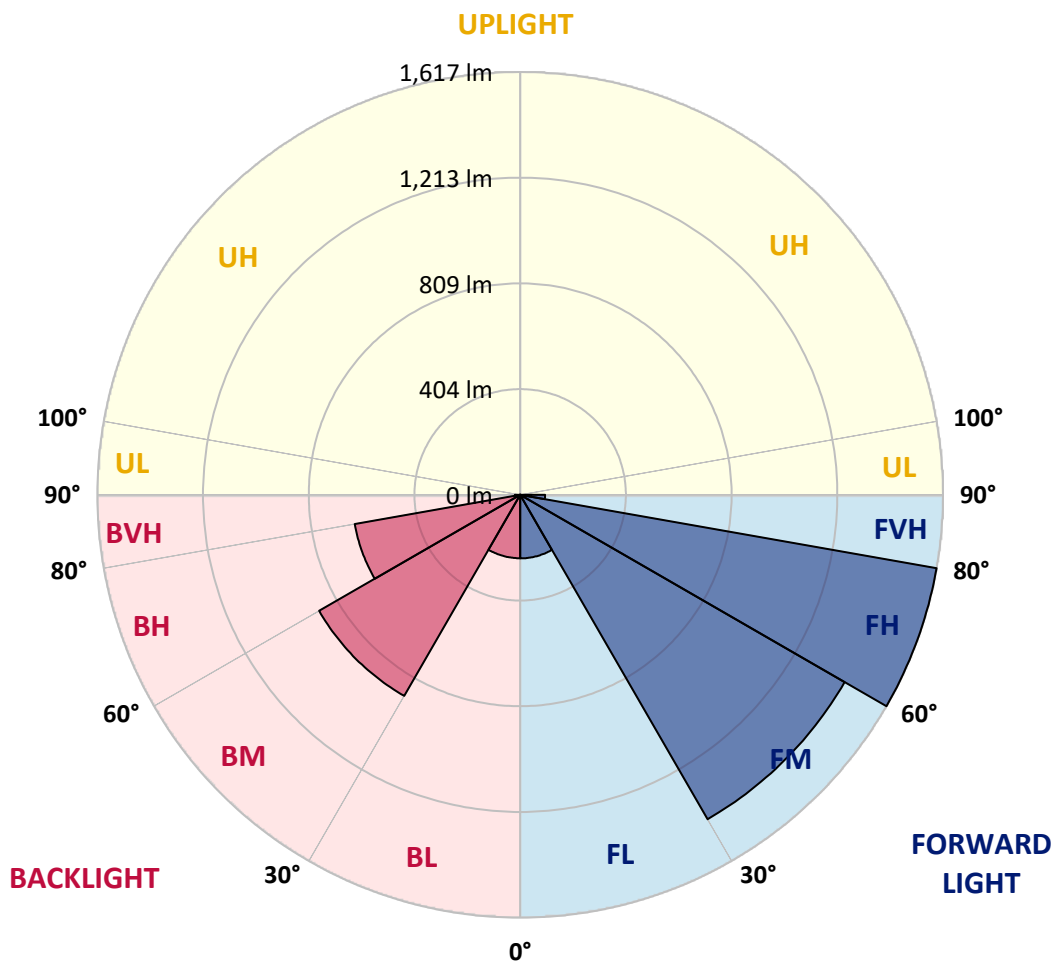
CATALOG NUMBER: VTS-F02-LED-E1-T3-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 243.1 | 4.7 | | | |
| FM | (30°-60°) | 1432.8 | 27.7 | | | |
| FH | (60°-80°) | 1617.2 | 31.2 | | | G1/1800 |
| FVH | (80°-90°) | 95.3 | 1.8 | | | G1/100 |
| BL | (0°-30°) | 242.5 | 4.7 | B1/500 | | |
| BM | (30°-60°) | 887.9 | 17.1 | B1/1000 | | |
| BH | (60°-80°) | 642.3 | 12.4 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 20.2 | 0.4 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 559.1 | 559.1 | 559.1 | 559.1 | 559.1 | 559.1 | 559.1 | 559.1 | 559.1 | 559.1 | 559.1 |
| 2.5° | 558.1 | 558.1 | 558.4 | 558.1 | 558.1 | 557.7 | 559.1 | 559.1 | 559.1 | 558.7 | 559.7 |
| 5° | 556.7 | 556.7 | 557.0 | 557.0 | 557.4 | 557.0 | 558.1 | 558.4 | 558.4 | 558.4 | 559.4 |
| 7.5° | 553.3 | 554.3 | 553.6 | 554.0 | 554.3 | 555.3 | 556.7 | 557.4 | 558.1 | 559.1 | 559.4 |
| 10° | 546.2 | 547.9 | 547.5 | 548.6 | 548.9 | 552.0 | 553.0 | 554.3 | 556.7 | 558.1 | 559.1 |
| 12.5° | 536.4 | 537.4 | 537.7 | 539.1 | 540.4 | 544.2 | 546.9 | 549.2 | 552.6 | 556.0 | 559.4 |
| 15° | 528.6 | 529.3 | 529.3 | 530.6 | 532.6 | 536.0 | 539.4 | 543.5 | 548.6 | 554.3 | 559.7 |
| 17.5° | 530.9 | 532.6 | 531.3 | 530.9 | 531.6 | 533.7 | 536.7 | 540.1 | 546.2 | 552.6 | 559.1 |
| 20° | 546.5 | 546.9 | 546.2 | 544.5 | 543.1 | 543.5 | 543.5 | 544.2 | 547.9 | 553.0 | 558.1 |
| 22.5° | 559.4 | 560.8 | 560.4 | 560.8 | 560.4 | 561.8 | 561.1 | 559.7 | 558.4 | 558.7 | 561.1 |
| 25° | 570.6 | 571.9 | 571.9 | 573.0 | 574.7 | 577.4 | 579.4 | 579.1 | 577.0 | 574.3 | 573.3 |
| 27.5° | 588.9 | 588.9 | 588.9 | 589.9 | 592.3 | 595.7 | 599.1 | 601.1 | 602.8 | 600.1 | 594.3 |
| 30° | 617.7 | 618.0 | 617.0 | 617.3 | 619.0 | 623.4 | 627.5 | 630.6 | 634.0 | 633.6 | 626.2 |
| 32.5° | 649.2 | 650.6 | 650.2 | 651.6 | 653.9 | 658.0 | 662.4 | 667.2 | 671.6 | 674.3 | 669.5 |
| 35° | 689.9 | 691.2 | 691.6 | 693.6 | 696.3 | 702.4 | 708.5 | 714.6 | 719.3 | 721.4 | 720.4 |
| 37.5° | 756.6 | 756.9 | 755.6 | 752.5 | 753.6 | 758.3 | 765.4 | 775.2 | 778.3 | 780.3 | 785.1 |
| 40° | 856.6 | 855.5 | 850.1 | 847.4 | 845.7 | 847.8 | 846.4 | 854.2 | 861.3 | 861.6 | 861.3 |
| 42.5° | 977.9 | 974.8 | 969.7 | 969.1 | 968.4 | 967.7 | 964.0 | 964.3 | 970.7 | 972.4 | 970.4 |
| 45° | 1098.5 | 1094.8 | 1091.0 | 1094.4 | 1090.4 | 1100.9 | 1103.9 | 1112.0 | 1113.1 | 1116.4 | 1111.4 |
| 47.5° | 1197.4 | 1197.8 | 1197.8 | 1202.5 | 1210.6 | 1230.6 | 1248.6 | 1264.2 | 1269.9 | 1278.1 | 1279.1 |
| 50° | 1272.3 | 1274.3 | 1280.8 | 1296.0 | 1313.3 | 1346.9 | 1377.0 | 1405.1 | 1430.5 | 1440.0 | 1465.1 |
| 52.5° | 1316.0 | 1321.4 | 1335.0 | 1360.4 | 1391.2 | 1434.6 | 1482.0 | 1529.8 | 1573.9 | 1611.1 | 1641.0 |
| 55° | 1308.2 | 1312.3 | 1336.0 | 1375.7 | 1423.8 | 1482.0 | 1548.5 | 1617.6 | 1686.4 | 1749.4 | 1798.2 |
| 57.5° | 1258.1 | 1260.8 | 1284.5 | 1329.2 | 1389.2 | 1467.5 | 1561.3 | 1664.0 | 1760.6 | 1862.2 | 1945.6 |
| 60° | 1192.3 | 1196.4 | 1218.4 | 1253.7 | 1316.4 | 1399.7 | 1508.5 | 1647.7 | 1801.9 | 1961.8 | 2117.7 |
| 62.5° | 1150.3 | 1149.3 | 1168.6 | 1200.1 | 1247.2 | 1322.8 | 1427.5 | 1592.5 | 1806.0 | 2076.4 | 2384.3 |
| 65° | 1080.5 | 1077.5 | 1097.5 | 1133.4 | 1184.6 | 1257.7 | 1357.0 | 1515.6 | 1763.3 | 2119.7 | 2556.5 |
| 66° | 1037.2 | 1031.1 | 1051.1 | 1087.3 | 1138.5 | 1216.4 | 1311.6 | 1468.2 | 1711.4 | 2077.4 | 2538.2 |
| 67.5° | 961.3 | 958.2 | 967.7 | 996.2 | 1034.1 | 1107.3 | 1206.6 | 1364.1 | 1588.8 | 1950.0 | 2404.0 |
| 70° | 781.3 | 774.6 | 782.0 | 794.9 | 809.5 | 827.4 | 888.4 | 1013.4 | 1203.5 | 1553.5 | 1936.8 |
| 72.5° | 532.3 | 528.9 | 542.8 | 562.5 | 601.4 | 619.7 | 643.8 | 664.1 | 731.2 | 979.2 | 1350.9 |
| 75° | 404.9 | 406.9 | 424.6 | 457.1 | 507.2 | 561.4 | 614.3 | 633.6 | 611.2 | 591.9 | 766.8 |
| 77.5° | 227.0 | 238.9 | 260.2 | 301.6 | 354.8 | 431.3 | 523.5 | 625.1 | 676.0 | 663.4 | 620.4 |
| 80° | 93.5 | 91.8 | 102.3 | 125.0 | 143.3 | 206.0 | 315.1 | 442.5 | 585.5 | 676.0 | 661.7 |
| 82.5° | 26.1 | 26.8 | 34.6 | 44.4 | 57.3 | 72.8 | 113.8 | 183.0 | 298.2 | 463.9 | 607.2 |
| 85° | 8.1 | 8.1 | 11.2 | 16.6 | 19.7 | 22.7 | 28.8 | 47.4 | 81.0 | 161.6 | 327.6 |
| 87.5° | 1.7 | 1.7 | 2.4 | 4.7 | 5.1 | 5.1 | 6.4 | 8.8 | 7.8 | 7.1 | 31.9 |
| 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-F02-LED-E1-T3-7060

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 559.1 | 559.1 | 559.1 | 559.1 | 559.1 | 559.1 | 559.1 | 559.1 | 559.1 | 559.1 | 559.1 |
| 2.5° | 558.7 | 558.1 | 558.4 | 558.7 | 558.4 | 558.4 | 558.1 | 557.7 | 558.1 | 558.1 | 559.1 |
| 5° | 558.4 | 558.1 | 558.4 | 558.4 | 558.4 | 558.7 | 558.7 | 558.7 | 559.7 | 559.7 | 561.4 |
| 7.5° | 559.1 | 559.1 | 559.7 | 559.7 | 559.7 | 559.7 | 560.1 | 560.8 | 562.5 | 562.1 | 565.2 |
| 10° | 560.4 | 561.1 | 562.8 | 563.1 | 563.1 | 564.2 | 564.8 | 566.2 | 567.9 | 568.6 | 571.3 |
| 12.5° | 562.1 | 565.5 | 568.6 | 569.2 | 570.3 | 571.9 | 573.0 | 573.6 | 576.7 | 577.7 | 581.1 |
| 15° | 564.2 | 568.9 | 572.6 | 574.0 | 575.3 | 577.4 | 578.7 | 579.7 | 582.4 | 583.8 | 587.9 |
| 17.5° | 564.5 | 569.9 | 574.3 | 576.4 | 578.0 | 580.4 | 582.4 | 584.5 | 587.5 | 589.6 | 593.6 |
| 20° | 564.2 | 571.3 | 578.0 | 580.8 | 582.4 | 586.9 | 589.9 | 592.6 | 596.3 | 598.4 | 602.4 |
| 22.5° | 567.9 | 576.0 | 585.2 | 588.5 | 591.3 | 597.4 | 601.4 | 605.8 | 610.6 | 611.9 | 615.0 |
| 25° | 576.7 | 585.2 | 596.7 | 601.4 | 606.2 | 614.3 | 620.1 | 626.5 | 631.2 | 631.9 | 632.9 |
| 27.5° | 591.6 | 599.4 | 613.3 | 620.4 | 628.2 | 639.7 | 648.2 | 654.6 | 661.4 | 661.4 | 660.7 |
| 30° | 621.8 | 623.4 | 638.0 | 647.2 | 658.7 | 675.6 | 688.2 | 695.3 | 700.4 | 700.4 | 694.6 |
| 32.5° | 660.7 | 658.7 | 671.9 | 681.7 | 697.7 | 721.4 | 738.3 | 743.7 | 749.2 | 747.5 | 737.6 |
| 35° | 717.0 | 711.2 | 718.7 | 733.6 | 751.5 | 784.1 | 801.7 | 813.9 | 817.3 | 812.5 | 796.9 |
| 37.5° | 787.8 | 787.1 | 790.8 | 807.4 | 827.4 | 869.4 | 887.4 | 895.2 | 892.5 | 884.0 | 856.6 |
| 40° | 862.7 | 860.6 | 858.3 | 869.4 | 891.8 | 942.3 | 974.1 | 978.2 | 974.5 | 961.9 | 927.4 |
| 42.5° | 962.6 | 962.6 | 951.4 | 954.5 | 973.1 | 1029.7 | 1067.3 | 1080.2 | 1080.5 | 1062.2 | 1016.2 |
| 45° | 1100.2 | 1098.8 | 1079.2 | 1074.4 | 1088.7 | 1144.2 | 1192.7 | 1199.8 | 1199.8 | 1175.7 | 1125.3 |
| 47.5° | 1265.5 | 1263.8 | 1244.5 | 1227.9 | 1230.6 | 1290.6 | 1330.9 | 1341.8 | 1332.3 | 1314.3 | 1254.3 |
| 50° | 1451.9 | 1448.8 | 1429.2 | 1413.6 | 1406.8 | 1467.5 | 1501.7 | 1506.8 | 1492.9 | 1471.5 | 1406.5 |
| 52.5° | 1641.0 | 1650.1 | 1638.6 | 1630.1 | 1632.5 | 1671.8 | 1707.0 | 1683.0 | 1675.9 | 1652.8 | 1587.4 |
| 55° | 1837.8 | 1865.9 | 1891.4 | 1883.9 | 1892.7 | 1931.0 | 1937.8 | 1905.9 | 1893.0 | 1876.4 | 1803.6 |
| 57.5° | 2036.0 | 2118.0 | 2201.4 | 2224.8 | 2246.4 | 2301.3 | 2293.5 | 2241.4 | 2251.2 | 2275.9 | 2193.9 |
| 60° | 2312.9 | 2549.7 | 2761.1 | 2800.1 | 2867.5 | 2914.3 | 2924.8 | 2914.6 | 2960.4 | 2947.5 | 2875.0 |
| 62.5° | 2738.1 | 3132.8 | 3426.9 | 3500.1 | 3567.9 | 3565.5 | 3529.9 | 3493.3 | 3538.4 | 3538.4 | 3349.0 |
| 65° | 3041.7 | 3489.6 | 3804.4 | 3865.0 | 3862.3 | 3780.7 | 3696.6 | 3623.5 | 3617.0 | 3566.9 | 3290.0 |
| 66° | 3055.9 | 3517.1 | 3825.4 | 3878.3 | 3857.9 | 3726.5 | 3625.8 | 3533.0 | 3493.3 | 3423.5 | 3139.9 |
| 67.5° | 2927.8 | 3439.5 | 3756.9 | 3803.0 | 3749.5 | 3561.1 | 3422.5 | 3298.2 | 3240.6 | 3123.0 | 2856.0 |
| 70° | 2401.6 | 2956.0 | 3417.8 | 3512.0 | 3451.3 | 3212.8 | 3023.0 | 2855.0 | 2744.9 | 2575.1 | 2382.7 |
| 72.5° | 1753.1 | 2182.4 | 2682.5 | 2835.7 | 2826.2 | 2606.6 | 2453.8 | 2300.0 | 2155.3 | 2000.8 | 1860.2 |
| 75° | 1139.5 | 1419.7 | 1698.6 | 1788.0 | 1745.0 | 1617.9 | 1508.5 | 1418.7 | 1281.5 | 1174.0 | 1148.0 |
| 77.5° | 650.6 | 794.9 | 751.9 | 740.7 | 686.8 | 554.3 | 368.6 | 258.5 | 233.5 | 291.4 | 319.5 |
| 80° | 619.0 | 561.1 | 459.5 | 414.4 | 380.8 | 259.5 | 136.2 | 95.9 | 84.0 | 86.1 | 92.5 |
| 82.5° | 698.0 | 727.5 | 595.0 | 497.1 | 432.7 | 315.8 | 172.5 | 80.3 | 58.6 | 69.5 | 77.9 |
| 85° | 523.2 | 736.6 | 730.2 | 618.7 | 507.6 | 363.9 | 204.0 | 61.3 | 35.2 | 48.8 | 63.7 |
| 87.5° | 106.1 | 174.5 | 168.1 | 147.7 | 125.7 | 87.8 | 34.2 | 19.3 | 17.6 | 24.1 | 36.6 |
| 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-F02-LED-E1-T3-7060

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 559.1 | 559.1 | 559.1 | 559.1 | 559.1 | 559.1 | 559.1 | 559.1 | 559.1 | 559.1 | 559.1 |
| 2.5° | 559.7 | 559.7 | 560.4 | 561.4 | 561.8 | 561.8 | 562.5 | 561.8 | 563.1 | 563.5 | 563.8 |
| 5° | 562.8 | 563.8 | 564.5 | 566.2 | 567.2 | 567.9 | 568.9 | 568.2 | 569.6 | 569.9 | 570.6 |
| 7.5° | 566.2 | 567.9 | 569.2 | 569.9 | 571.3 | 571.3 | 571.6 | 570.9 | 570.6 | 569.6 | 569.2 |
| 10° | 572.3 | 573.3 | 575.0 | 574.3 | 573.6 | 571.3 | 569.2 | 566.2 | 564.5 | 561.4 | 559.7 |
| 12.5° | 582.1 | 582.8 | 582.8 | 579.7 | 575.3 | 569.9 | 564.8 | 559.7 | 555.7 | 552.3 | 550.3 |
| 15° | 588.9 | 590.2 | 588.5 | 584.1 | 577.7 | 570.3 | 563.5 | 556.7 | 551.3 | 546.9 | 544.2 |
| 17.5° | 594.0 | 593.6 | 590.6 | 584.5 | 578.4 | 571.9 | 565.8 | 558.7 | 552.0 | 545.5 | 541.5 |
| 20° | 601.8 | 598.4 | 593.0 | 586.5 | 580.1 | 574.7 | 569.9 | 563.1 | 556.0 | 547.2 | 541.1 |
| 22.5° | 612.3 | 606.2 | 598.4 | 591.6 | 585.5 | 580.4 | 575.0 | 569.2 | 561.8 | 552.0 | 543.5 |
| 25° | 627.2 | 616.7 | 607.9 | 601.1 | 595.7 | 589.9 | 583.8 | 576.4 | 568.9 | 558.7 | 548.6 |
| 27.5° | 649.9 | 634.3 | 623.1 | 617.0 | 611.9 | 604.1 | 596.3 | 587.5 | 578.0 | 567.5 | 556.0 |
| 30° | 677.3 | 658.7 | 645.8 | 640.4 | 634.3 | 625.5 | 617.0 | 604.8 | 591.6 | 579.1 | 564.8 |
| 32.5° | 709.5 | 690.5 | 677.7 | 673.6 | 663.8 | 653.6 | 641.7 | 625.5 | 608.2 | 589.6 | 572.6 |
| 35° | 758.3 | 734.2 | 722.4 | 712.9 | 699.3 | 687.1 | 667.2 | 645.8 | 621.1 | 596.3 | 575.3 |
| 37.5° | 808.4 | 784.1 | 771.9 | 758.6 | 741.0 | 718.7 | 691.9 | 661.4 | 628.5 | 598.0 | 572.3 |
| 40° | 875.5 | 849.1 | 833.5 | 813.2 | 784.7 | 749.8 | 710.2 | 668.5 | 628.5 | 590.6 | 559.4 |
| 42.5° | 953.8 | 929.4 | 905.4 | 871.8 | 826.1 | 775.2 | 719.7 | 666.1 | 617.7 | 574.0 | 541.1 |
| 45° | 1062.2 | 1020.6 | 982.3 | 928.4 | 861.6 | 790.2 | 720.7 | 655.0 | 599.1 | 550.6 | 514.0 |
| 47.5° | 1184.2 | 1130.3 | 1062.6 | 978.2 | 887.1 | 795.9 | 710.9 | 634.0 | 569.6 | 517.1 | 477.1 |
| 50° | 1324.8 | 1242.2 | 1138.1 | 1017.8 | 899.9 | 788.1 | 687.5 | 598.7 | 528.9 | 468.6 | 425.9 |
| 52.5° | 1485.8 | 1359.7 | 1206.6 | 1046.0 | 897.9 | 764.4 | 648.9 | 552.3 | 474.4 | 410.3 | 368.3 |
| 55° | 1664.3 | 1487.8 | 1272.0 | 1063.9 | 879.6 | 718.3 | 588.2 | 486.9 | 406.6 | 343.6 | 306.6 |
| 57.5° | 1979.1 | 1712.4 | 1396.7 | 1088.0 | 841.3 | 648.5 | 511.3 | 404.2 | 331.7 | 278.2 | 242.9 |
| 60° | 2563.9 | 2105.2 | 1632.8 | 1144.6 | 783.7 | 561.1 | 414.4 | 317.1 | 256.5 | 217.5 | 191.4 |
| 62.5° | 2925.8 | 2381.6 | 1748.0 | 1136.4 | 690.2 | 441.5 | 307.7 | 235.1 | 187.4 | 161.6 | 145.4 |
| 65° | 2840.1 | 2273.2 | 1607.4 | 976.2 | 537.0 | 313.1 | 203.6 | 153.8 | 128.8 | 115.5 | 107.7 |
| 66° | 2723.5 | 2151.9 | 1488.5 | 874.2 | 467.9 | 261.6 | 168.1 | 129.1 | 110.8 | 101.0 | 96.9 |
| 67.5° | 2479.2 | 1930.3 | 1283.8 | 700.0 | 350.7 | 194.8 | 124.0 | 101.3 | 90.1 | 85.0 | 82.3 |
| 70° | 2075.0 | 1555.2 | 908.1 | 413.4 | 190.1 | 105.7 | 79.3 | 70.5 | 67.8 | 66.1 | 65.1 |
| 72.5° | 1604.4 | 1125.9 | 530.6 | 203.3 | 95.9 | 68.4 | 60.3 | 56.6 | 55.6 | 55.6 | 55.9 |
| 75° | 1010.7 | 647.2 | 237.5 | 97.9 | 65.1 | 55.2 | 51.5 | 49.8 | 50.1 | 50.5 | 50.1 |
| 77.5° | 335.8 | 223.3 | 98.9 | 69.5 | 56.6 | 50.1 | 47.1 | 46.4 | 47.1 | 47.4 | 47.4 |
| 80° | 96.6 | 84.4 | 71.5 | 61.3 | 51.8 | 46.8 | 44.0 | 43.7 | 45.4 | 45.7 | 45.1 |
| 82.5° | 74.2 | 69.5 | 64.7 | 59.3 | 49.8 | 44.0 | 43.0 | 43.4 | 44.4 | 43.7 | 40.7 |
| 85° | 68.1 | 67.4 | 48.5 | 48.1 | 43.4 | 42.0 | 41.0 | 41.3 | 40.3 | 36.6 | 33.2 |
| 87.5° | 38.3 | 35.6 | 27.4 | 27.8 | 32.2 | 33.2 | 27.4 | 29.1 | 27.1 | 23.7 | 21.7 |
| 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: P159417

CATALOG NUMBER: VTS-F02-LED-E1-T3-7060

CANDELA DISTRIBUTION (continued):

| | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|
| 0° | 559.1 | 559.1 | 559.1 | 559.1 | 559.1 |
| 2.5° | 564.5 | 564.2 | 564.2 | 565.2 | 563.8 |
| 5° | 570.9 | 570.6 | 570.6 | 571.6 | 570.6 |
| 7.5° | 567.9 | 566.9 | 566.2 | 565.8 | 565.8 |
| 10° | 557.7 | 556.7 | 554.7 | 554.0 | 553.3 |
| 12.5° | 547.2 | 546.2 | 543.8 | 543.8 | 543.1 |
| 15° | 540.8 | 539.4 | 537.7 | 536.7 | 536.0 |
| 17.5° | 537.4 | 535.4 | 533.3 | 532.3 | 531.6 |
| 20° | 536.0 | 533.3 | 530.9 | 529.3 | 529.3 |
| 22.5° | 536.4 | 533.0 | 530.3 | 528.2 | 527.6 |
| 25° | 539.8 | 534.7 | 531.3 | 529.3 | 528.6 |
| 27.5° | 544.5 | 538.4 | 534.0 | 531.3 | 530.3 |
| 30° | 550.9 | 542.5 | 536.4 | 533.0 | 531.6 |
| 32.5° | 555.3 | 543.5 | 535.7 | 530.9 | 529.3 |
| 35° | 555.0 | 539.8 | 530.3 | 524.2 | 522.1 |
| 37.5° | 548.9 | 530.9 | 518.4 | 511.0 | 507.6 |
| 40° | 535.4 | 514.7 | 501.5 | 494.4 | 490.3 |
| 42.5° | 515.7 | 493.3 | 481.5 | 473.7 | 469.3 |
| 45° | 484.9 | 462.8 | 448.3 | 442.2 | 436.4 |
| 47.5° | 442.2 | 419.8 | 407.3 | 398.5 | 394.7 |
| 50° | 392.0 | 369.7 | 356.4 | 349.3 | 345.9 |
| 52.5° | 337.1 | 315.8 | 306.3 | 299.5 | 294.8 |
| 55° | 280.2 | 260.6 | 256.5 | 249.0 | 244.6 |
| 57.5° | 226.7 | 215.2 | 211.4 | 204.0 | 200.2 |
| 60° | 177.2 | 173.5 | 169.4 | 164.7 | 162.6 |
| 62.5° | 137.2 | 133.8 | 132.8 | 129.8 | 129.4 |
| 65° | 104.7 | 105.0 | 104.4 | 103.7 | 103.0 |
| 66° | 95.2 | 94.9 | 95.2 | 94.5 | 94.2 |
| 67.5° | 81.0 | 82.3 | 83.4 | 83.0 | 83.0 |
| 70° | 65.7 | 66.7 | 68.1 | 67.8 | 67.8 |
| 72.5° | 56.2 | 57.9 | 58.6 | 58.3 | 58.3 |
| 75° | 50.8 | 52.5 | 52.5 | 51.8 | 51.5 |
| 77.5° | 47.4 | 48.1 | 47.4 | 46.8 | 46.1 |
| 80° | 44.0 | 43.4 | 42.4 | 41.3 | 40.7 |
| 82.5° | 38.3 | 36.6 | 35.6 | 33.9 | 33.9 |
| 85° | 30.8 | 29.5 | 27.1 | 25.4 | 23.7 |
| 87.5° | 20.0 | 19.3 | 17.6 | 13.2 | 10.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)