

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: P158093

Luminaire Tested: **VTS-F02-LED-E1-SL2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158093
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33712)
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-SL2-8030
Description: VENTUS LED SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

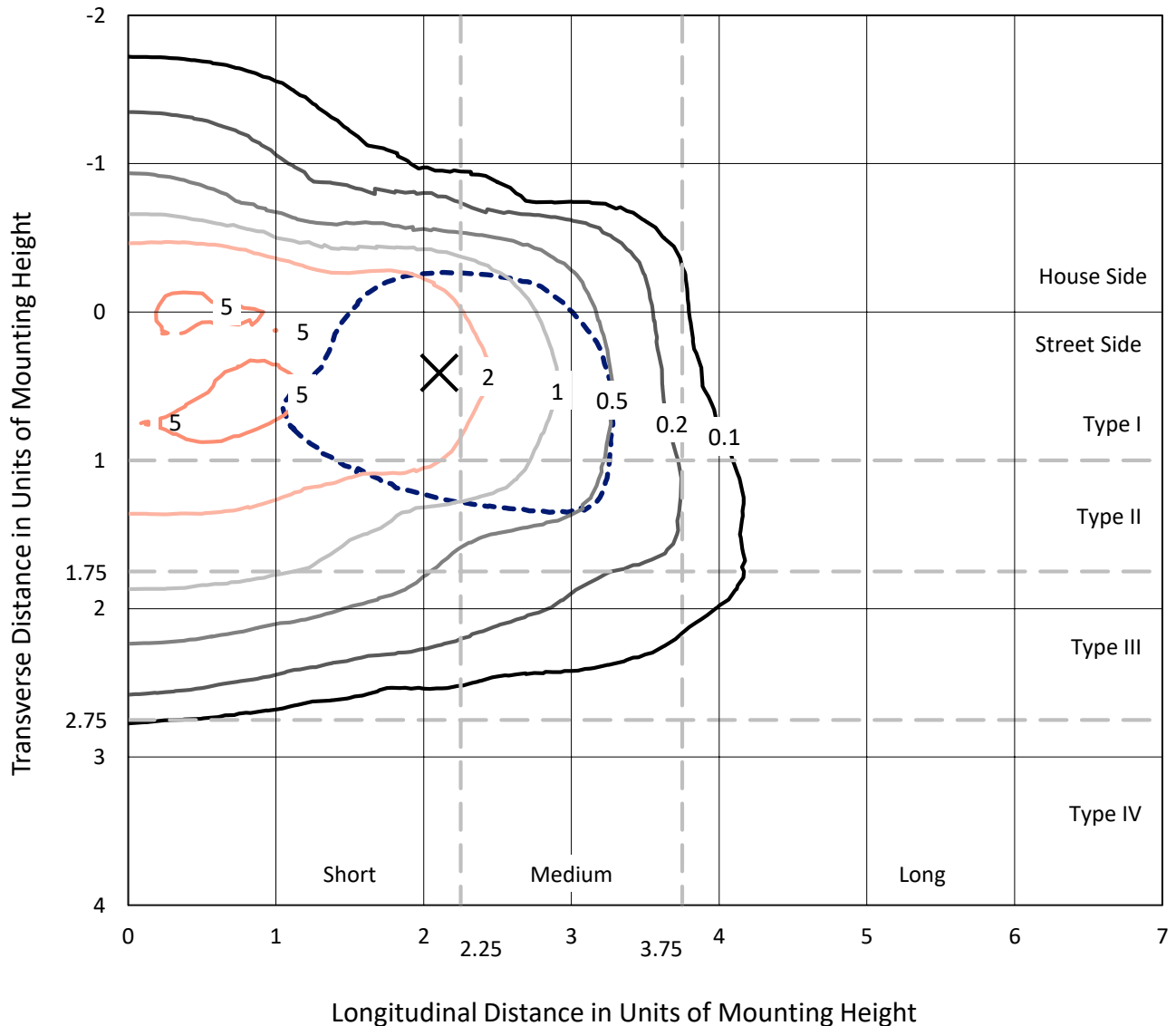
Lumens per Lamp: N/A
Luminaire Lumens: 4192.6 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

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: P158093
 CATALOG NUMBER: VTS-F02-LED-E1-SL2-8030

Iso-Footcandle Lines of Horizontal Illumination

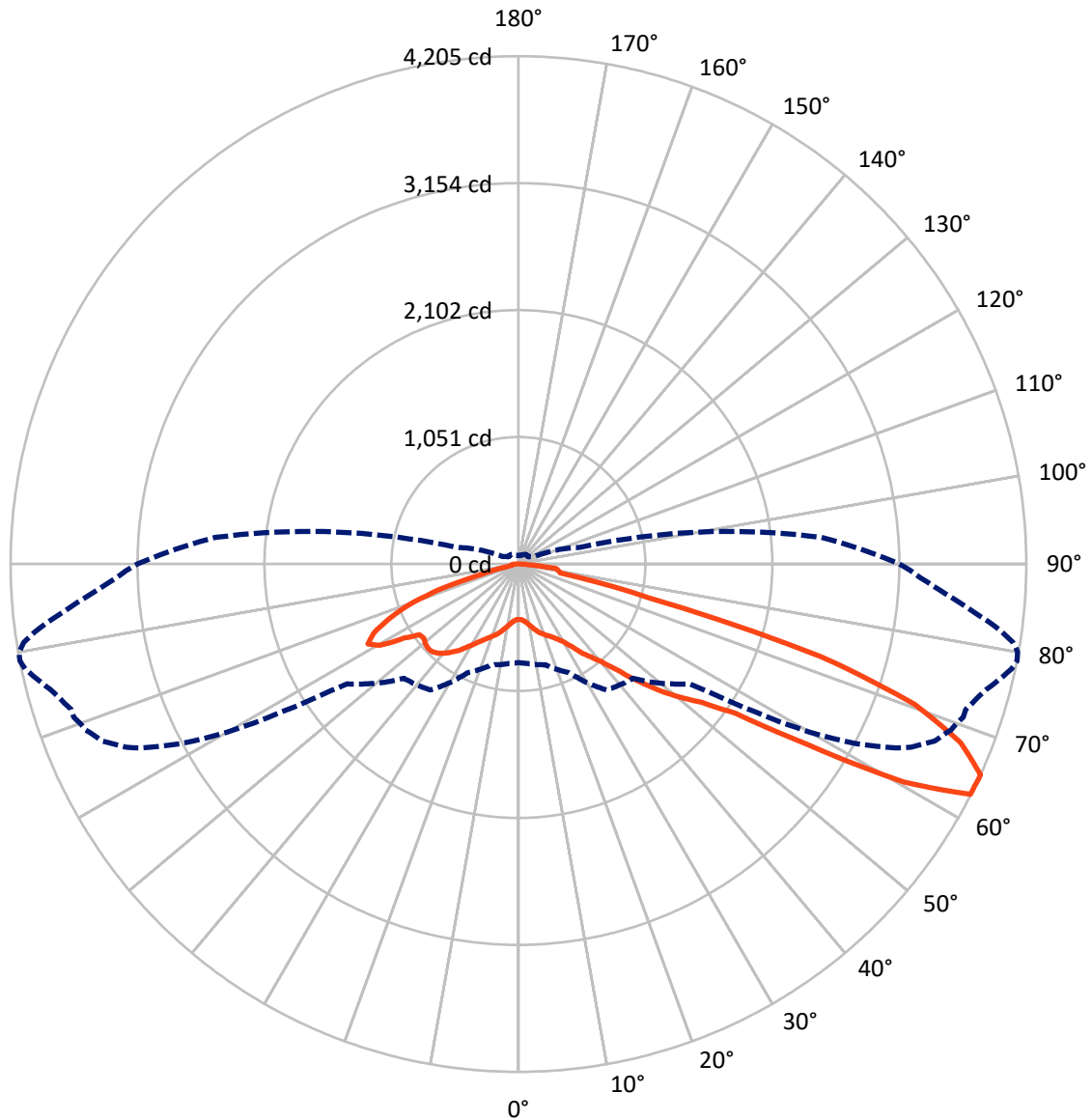
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P158093
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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 963.4 | 0.0 | 963.4 |
| | % Fixture | 23.0 | 0.0 | 23.0 |
| Street Side | Lumens | 3229.2 | 0.0 | 3229.2 |
| | % Fixture | 77.0 | 0.0 | 77.0 |
| Total | Lumens | 4192.6 | 0.0 | 4192.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 45.4 | 1.1 |
| 10°-20° | 147.4 | 3.5 |
| 20°-30° | 254.1 | 6.1 |
| 30°-40° | 416.2 | 9.9 |
| 40°-50° | 697.0 | 16.6 |
| 50°-60° | 942.8 | 22.5 |
| 60°-70° | 1161.1 | 27.7 |
| 70°-80° | 449.5 | 10.7 |
| 80°-90° | 79.0 | 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° | 4192.6 | 100.0 |
| 0°-180° | 4192.6 | 100.0 |



REPORT NUMBER: P158093

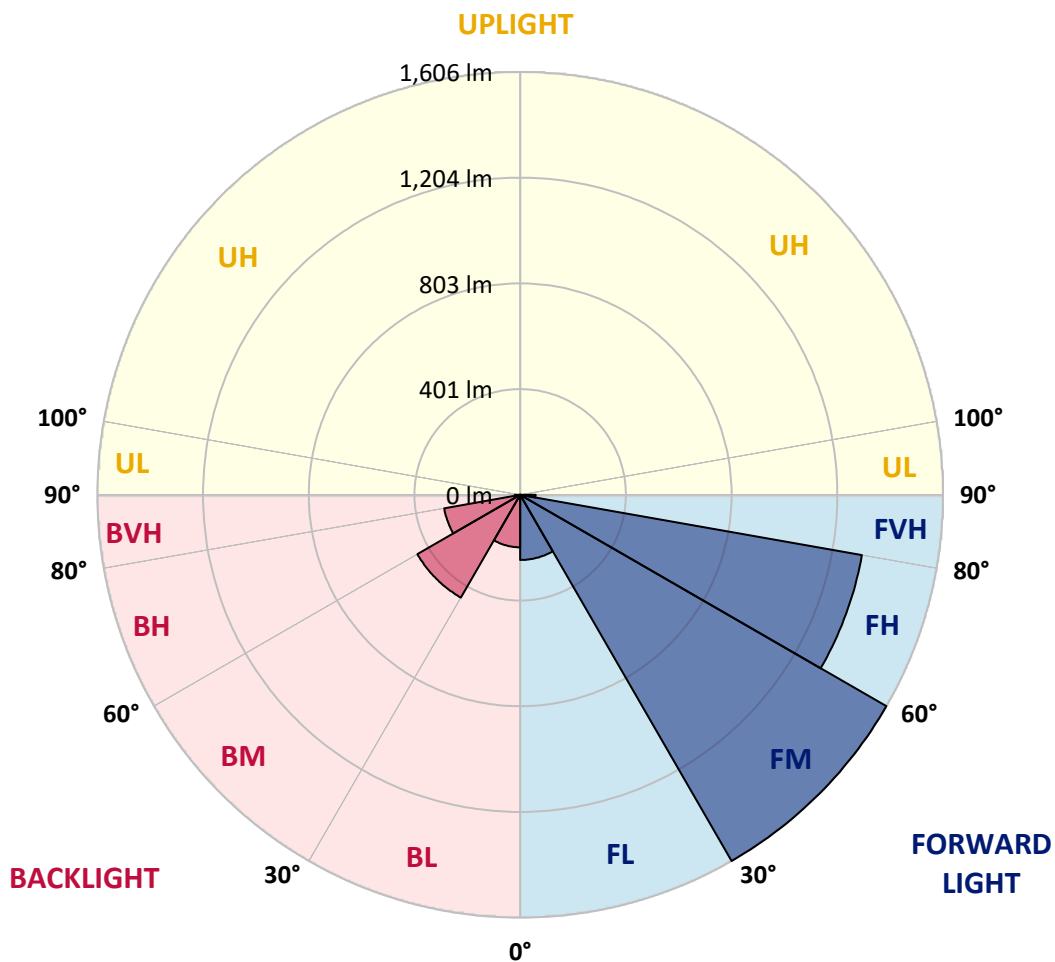
CATALOG NUMBER: VTS-F02-LED-E1-SL2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 247.5 | 5.9 | | | |
| FM | (30°-60°) | 1605.6 | 38.3 | | | |
| FH | (60°-80°) | 1317.5 | 31.4 | | | G1/1800 |
| FVH | (80°-90°) | 58.7 | 1.4 | | | G1/100 |
| BL | (0°-30°) | 199.4 | 4.8 | B1/500 | | |
| BM | (30°-60°) | 450.5 | 10.7 | B1/1000 | | |
| BH | (60°-80°) | 293.1 | 7.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 20.4 | 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-G1

Type II Short





REPORT NUMBER: P158093

CATALOG NUMBER: VTS-F02-LED-E1-SL2-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 |
| 2.5° | 459.6 | 458.2 | 459.6 | 460.7 | 461.5 | 462.6 | 462.4 | 462.1 | 461.8 | 462.1 | 462.1 |
| 5° | 463.5 | 463.2 | 464.6 | 465.7 | 467.6 | 469.0 | 470.7 | 470.7 | 470.7 | 470.4 | 471.0 |
| 7.5° | 476.0 | 475.7 | 477.1 | 478.2 | 479.9 | 482.7 | 484.9 | 486.0 | 485.8 | 485.8 | 485.8 |
| 10° | 496.6 | 495.5 | 495.5 | 495.5 | 497.7 | 499.7 | 504.7 | 505.3 | 506.4 | 505.8 | 506.1 |
| 12.5° | 516.7 | 517.0 | 516.1 | 515.3 | 515.6 | 519.5 | 526.7 | 528.1 | 528.4 | 529.2 | 529.8 |
| 15° | 534.8 | 534.5 | 532.6 | 530.6 | 533.1 | 539.8 | 549.3 | 551.8 | 551.8 | 553.5 | 554.6 |
| 17.5° | 551.5 | 551.0 | 547.4 | 544.0 | 546.5 | 557.9 | 572.7 | 574.4 | 576.9 | 577.7 | 578.8 |
| 20° | 571.3 | 570.2 | 566.0 | 557.1 | 557.1 | 572.7 | 592.2 | 593.9 | 596.1 | 596.7 | 598.6 |
| 22.5° | 598.9 | 596.1 | 587.2 | 571.0 | 566.6 | 584.7 | 608.7 | 609.5 | 611.2 | 613.4 | 615.1 |
| 25° | 630.1 | 630.7 | 616.2 | 588.0 | 578.3 | 597.2 | 624.6 | 625.9 | 629.0 | 630.7 | 632.6 |
| 27.5° | 662.5 | 663.3 | 647.1 | 612.0 | 595.6 | 614.5 | 646.0 | 647.7 | 651.3 | 653.3 | 656.3 |
| 30° | 699.2 | 700.4 | 684.8 | 649.4 | 624.3 | 639.9 | 677.8 | 682.2 | 685.3 | 687.8 | 692.8 |
| 32.5° | 787.6 | 780.9 | 770.0 | 732.4 | 692.8 | 691.7 | 729.1 | 734.1 | 738.3 | 743.6 | 748.3 |
| 35° | 898.8 | 903.0 | 908.5 | 883.2 | 848.3 | 823.0 | 826.0 | 823.3 | 827.2 | 835.0 | 839.7 |
| 37.5° | 986.9 | 996.1 | 1020.3 | 1036.7 | 1035.3 | 1030.3 | 983.5 | 983.5 | 986.0 | 981.8 | 981.3 |
| 40° | 1056.0 | 1061.8 | 1111.4 | 1175.3 | 1229.0 | 1255.5 | 1218.5 | 1213.2 | 1215.9 | 1194.5 | 1195.3 |
| 42.5° | 1091.6 | 1100.3 | 1171.6 | 1283.7 | 1390.4 | 1475.4 | 1464.0 | 1460.4 | 1452.0 | 1446.7 | 1443.4 |
| 45° | 1109.8 | 1120.1 | 1205.1 | 1358.9 | 1514.4 | 1645.7 | 1704.8 | 1704.2 | 1696.7 | 1690.6 | 1687.8 |
| 47.5° | 1100.6 | 1109.5 | 1200.1 | 1381.8 | 1579.6 | 1755.5 | 1886.2 | 1894.3 | 1892.1 | 1901.0 | 1904.6 |
| 50° | 1040.4 | 1051.8 | 1142.6 | 1332.4 | 1552.3 | 1798.7 | 2011.9 | 2026.9 | 2047.3 | 2060.1 | 2077.1 |
| 52.5° | 986.0 | 995.5 | 1077.4 | 1252.5 | 1462.6 | 1763.6 | 2087.7 | 2118.6 | 2146.5 | 2172.7 | 2193.0 |
| 55° | 929.2 | 938.6 | 1010.5 | 1169.4 | 1372.0 | 1659.9 | 2122.3 | 2167.4 | 2210.9 | 2255.2 | 2295.9 |
| 57.5° | 907.7 | 917.7 | 971.2 | 1105.0 | 1297.9 | 1557.1 | 2139.3 | 2213.4 | 2284.2 | 2359.4 | 2437.5 |
| 60° | 963.4 | 972.4 | 1013.1 | 1106.7 | 1241.3 | 1454.2 | 2105.0 | 2221.5 | 2343.3 | 2467.3 | 2587.1 |
| 62.5° | 946.4 | 951.2 | 1001.9 | 1147.1 | 1313.5 | 1352.8 | 1956.4 | 2110.3 | 2287.2 | 2469.0 | 2652.6 |
| 65° | 816.6 | 825.8 | 864.0 | 991.6 | 1273.1 | 1339.1 | 1730.1 | 1884.8 | 2093.6 | 2308.4 | 2554.5 |
| 67.5° | 585.8 | 573.0 | 602.5 | 714.3 | 987.7 | 1336.9 | 1475.4 | 1590.0 | 1753.5 | 1918.3 | 2120.0 |
| 70° | 266.2 | 260.0 | 283.2 | 371.5 | 595.8 | 1056.5 | 1247.4 | 1286.2 | 1346.9 | 1457.8 | 1594.1 |
| 72.5° | 105.1 | 104.8 | 119.8 | 153.6 | 281.8 | 680.0 | 1049.0 | 1071.3 | 1092.8 | 1141.0 | 1199.8 |
| 75° | 68.8 | 68.8 | 73.3 | 82.8 | 138.8 | 328.3 | 887.4 | 907.7 | 940.6 | 954.2 | 979.3 |
| 77.5° | 51.8 | 52.1 | 54.1 | 56.3 | 76.6 | 172.8 | 626.2 | 698.4 | 754.1 | 795.7 | 826.0 |
| 80° | 36.8 | 38.5 | 42.1 | 43.5 | 49.9 | 98.4 | 353.9 | 406.1 | 469.0 | 536.2 | 620.7 |
| 82.5° | 27.6 | 29.5 | 35.7 | 37.3 | 39.6 | 56.0 | 159.7 | 181.2 | 211.5 | 274.2 | 394.4 |
| 85° | 12.8 | 14.2 | 24.5 | 26.8 | 28.7 | 32.3 | 81.1 | 90.6 | 102.8 | 112.6 | 131.3 |
| 87.5° | 2.0 | 1.4 | 4.2 | 5.9 | 9.2 | 9.5 | 27.9 | 33.2 | 36.0 | 43.2 | 44.9 |
| 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: P158093

CATALOG NUMBER: VTS-F02-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | 71° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 |
| 2.5° | 462.1 | 462.4 | 462.6 | 462.1 | 462.4 | 462.4 | 461.8 | 461.5 | 461.5 | 461.5 | 461.8 |
| 5° | 471.0 | 471.6 | 471.0 | 471.3 | 472.4 | 472.1 | 471.6 | 471.3 | 472.4 | 472.7 | 471.8 |
| 7.5° | 486.9 | 487.2 | 486.0 | 487.4 | 488.0 | 488.3 | 488.3 | 488.8 | 488.8 | 489.7 | 488.8 |
| 10° | 507.2 | 507.2 | 509.2 | 508.9 | 509.2 | 509.7 | 510.0 | 511.1 | 512.0 | 512.0 | 512.5 |
| 12.5° | 530.6 | 530.9 | 532.9 | 533.1 | 534.3 | 534.5 | 536.2 | 535.1 | 537.9 | 537.9 | 538.7 |
| 15° | 554.9 | 556.8 | 557.1 | 559.9 | 560.5 | 560.7 | 563.0 | 563.0 | 564.9 | 565.2 | 565.7 |
| 17.5° | 578.8 | 580.5 | 581.6 | 583.9 | 585.8 | 586.7 | 587.5 | 589.2 | 590.6 | 591.1 | 592.5 |
| 20° | 599.5 | 601.1 | 602.3 | 604.5 | 606.2 | 607.6 | 608.4 | 610.3 | 611.7 | 612.3 | 614.2 |
| 22.5° | 616.8 | 617.9 | 619.8 | 622.9 | 623.4 | 625.1 | 627.6 | 629.0 | 629.6 | 631.2 | 633.5 |
| 25° | 635.1 | 636.8 | 637.9 | 640.7 | 642.9 | 645.7 | 648.0 | 650.2 | 650.8 | 653.0 | 654.9 |
| 27.5° | 659.7 | 661.3 | 661.6 | 667.2 | 669.4 | 673.3 | 675.8 | 679.2 | 680.8 | 682.8 | 686.7 |
| 30° | 695.9 | 699.8 | 701.5 | 707.9 | 709.0 | 713.5 | 717.9 | 719.0 | 721.5 | 721.8 | 728.2 |
| 32.5° | 751.4 | 756.9 | 759.2 | 765.9 | 767.5 | 771.7 | 774.2 | 780.1 | 780.3 | 783.1 | 784.5 |
| 35° | 842.2 | 840.8 | 849.5 | 851.1 | 856.1 | 859.8 | 862.3 | 862.3 | 867.6 | 867.9 | 869.5 |
| 37.5° | 966.2 | 963.4 | 965.7 | 955.6 | 958.2 | 953.7 | 952.9 | 954.0 | 951.7 | 952.3 | 952.0 |
| 40° | 1164.7 | 1152.1 | 1139.0 | 1108.1 | 1101.4 | 1088.6 | 1078.5 | 1070.5 | 1062.7 | 1054.3 | 1048.7 |
| 42.5° | 1413.5 | 1395.4 | 1375.9 | 1326.3 | 1303.2 | 1278.4 | 1254.1 | 1240.2 | 1212.3 | 1195.3 | 1186.1 |
| 45° | 1674.4 | 1653.2 | 1625.9 | 1584.7 | 1551.8 | 1525.3 | 1481.0 | 1460.1 | 1416.9 | 1395.4 | 1366.4 |
| 47.5° | 1888.2 | 1888.4 | 1866.4 | 1824.6 | 1789.5 | 1771.9 | 1744.3 | 1703.9 | 1654.9 | 1627.3 | 1575.7 |
| 50° | 2075.2 | 2074.9 | 2073.5 | 2048.4 | 2023.9 | 2004.6 | 1980.4 | 1943.9 | 1903.8 | 1872.5 | 1813.5 |
| 52.5° | 2213.4 | 2231.8 | 2239.6 | 2239.3 | 2236.2 | 2227.3 | 2208.9 | 2177.4 | 2136.7 | 2119.2 | 2072.1 |
| 55° | 2327.7 | 2367.8 | 2388.7 | 2434.4 | 2438.6 | 2453.3 | 2437.2 | 2437.5 | 2413.5 | 2415.2 | 2400.1 |
| 57.5° | 2500.7 | 2574.0 | 2616.1 | 2717.3 | 2768.0 | 2829.3 | 2818.4 | 2869.7 | 2888.4 | 2912.1 | 2943.6 |
| 60° | 2697.2 | 2834.0 | 2933.8 | 3135.0 | 3217.0 | 3316.2 | 3370.8 | 3429.1 | 3471.4 | 3514.9 | 3546.9 |
| 62.5° | 2837.7 | 3017.4 | 3181.3 | 3468.1 | 3574.5 | 3679.0 | 3747.9 | 3818.4 | 3866.0 | 3897.3 | 3920.4 |
| 65° | 2780.3 | 2979.0 | 3172.7 | 3473.4 | 3589.3 | 3665.1 | 3747.0 | 3787.7 | 3835.4 | 3861.3 | 3894.5 |
| 67.5° | 2362.5 | 2561.8 | 2769.4 | 3124.2 | 3245.4 | 3350.2 | 3414.0 | 3466.7 | 3505.1 | 3538.0 | 3576.2 |
| 70° | 1756.9 | 1974.8 | 2189.4 | 2578.5 | 2731.5 | 2882.8 | 2958.1 | 3023.3 | 3063.4 | 3096.6 | 3138.7 |
| 72.5° | 1264.4 | 1401.0 | 1535.0 | 1970.6 | 2123.6 | 2319.3 | 2397.3 | 2469.8 | 2521.9 | 2520.2 | 2564.8 |
| 75° | 1006.6 | 1062.1 | 1121.7 | 1346.7 | 1456.5 | 1621.4 | 1665.2 | 1705.9 | 1681.4 | 1634.3 | 1631.5 |
| 77.5° | 838.0 | 860.9 | 881.0 | 951.5 | 967.6 | 1006.9 | 985.2 | 962.6 | 889.9 | 828.6 | 796.2 |
| 80° | 680.3 | 725.4 | 755.0 | 805.1 | 825.8 | 837.5 | 840.5 | 832.7 | 806.0 | 768.9 | 709.8 |
| 82.5° | 505.8 | 591.7 | 650.2 | 748.9 | 785.1 | 792.6 | 807.1 | 798.2 | 780.6 | 750.5 | 708.2 |
| 85° | 148.3 | 167.8 | 192.3 | 260.9 | 305.7 | 343.9 | 382.9 | 402.2 | 414.1 | 397.4 | 353.7 |
| 87.5° | 52.1 | 58.8 | 65.8 | 90.6 | 96.4 | 116.5 | 114.3 | 134.9 | 135.7 | 141.6 | 135.4 |
| 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: P158093

CATALOG NUMBER: VTS-F02-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

| | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 |
| 2.5° | 461.5 | 461.5 | 461.5 | 461.8 | 461.8 | 461.8 | 461.2 | 461.0 | 461.2 | 461.8 | 461.8 |
| 5° | 472.4 | 472.7 | 473.2 | 472.1 | 472.4 | 473.2 | 472.7 | 472.4 | 472.7 | 473.2 | 472.7 |
| 7.5° | 489.9 | 490.2 | 489.7 | 490.8 | 490.8 | 491.3 | 492.2 | 491.3 | 491.6 | 491.9 | 492.2 |
| 10° | 512.8 | 513.1 | 513.6 | 514.5 | 514.7 | 515.3 | 515.9 | 516.7 | 516.7 | 516.1 | 517.5 |
| 12.5° | 540.1 | 539.8 | 540.4 | 541.5 | 542.1 | 542.9 | 544.6 | 544.6 | 545.7 | 545.4 | 546.8 |
| 15° | 566.9 | 568.3 | 568.5 | 570.5 | 571.3 | 572.7 | 574.7 | 575.8 | 575.8 | 577.5 | 578.0 |
| 17.5° | 593.6 | 594.7 | 595.8 | 597.5 | 598.6 | 599.5 | 601.7 | 603.1 | 602.8 | 605.9 | 605.9 |
| 20° | 614.2 | 616.5 | 617.9 | 619.0 | 620.9 | 622.3 | 624.0 | 625.7 | 626.8 | 628.7 | 629.3 |
| 22.5° | 634.3 | 635.7 | 637.7 | 639.0 | 641.3 | 642.9 | 644.9 | 646.3 | 648.2 | 650.8 | 651.6 |
| 25° | 656.6 | 658.8 | 661.1 | 663.0 | 664.7 | 666.6 | 670.0 | 673.0 | 675.8 | 678.1 | 678.9 |
| 27.5° | 687.5 | 690.0 | 693.4 | 694.8 | 697.3 | 699.0 | 704.0 | 707.9 | 709.3 | 713.2 | 714.3 |
| 30° | 729.3 | 732.1 | 735.5 | 737.1 | 741.6 | 743.8 | 749.1 | 753.3 | 754.7 | 759.4 | 760.3 |
| 32.5° | 789.8 | 791.5 | 798.2 | 797.9 | 804.0 | 810.4 | 813.5 | 816.9 | 823.0 | 825.5 | 826.3 |
| 35° | 873.7 | 877.6 | 882.3 | 882.1 | 889.9 | 893.5 | 899.6 | 903.2 | 907.7 | 907.4 | 912.2 |
| 37.5° | 954.8 | 956.2 | 957.9 | 961.5 | 967.1 | 972.1 | 974.3 | 977.9 | 981.3 | 986.3 | 992.4 |
| 40° | 1043.2 | 1046.5 | 1046.8 | 1048.7 | 1051.5 | 1057.9 | 1062.1 | 1066.0 | 1077.4 | 1084.7 | 1088.3 |
| 42.5° | 1175.5 | 1174.7 | 1169.1 | 1172.7 | 1174.4 | 1184.2 | 1187.2 | 1199.2 | 1212.0 | 1227.4 | 1231.5 |
| 45° | 1345.8 | 1334.7 | 1331.3 | 1329.9 | 1338.8 | 1343.9 | 1356.4 | 1378.7 | 1392.1 | 1406.6 | 1413.5 |
| 47.5° | 1555.4 | 1520.6 | 1504.1 | 1500.5 | 1509.7 | 1531.1 | 1535.3 | 1557.3 | 1574.9 | 1585.5 | 1592.5 |
| 50° | 1765.2 | 1737.9 | 1703.4 | 1691.7 | 1689.2 | 1709.0 | 1713.7 | 1732.1 | 1749.9 | 1753.0 | 1749.4 |
| 52.5° | 2028.9 | 1984.3 | 1927.2 | 1906.5 | 1890.1 | 1891.5 | 1895.4 | 1903.2 | 1914.6 | 1909.9 | 1900.1 |
| 55° | 2366.1 | 2315.4 | 2287.2 | 2248.2 | 2223.4 | 2219.0 | 2202.0 | 2178.6 | 2177.7 | 2180.8 | 2151.5 |
| 57.5° | 2927.7 | 2906.5 | 2918.5 | 2914.3 | 2889.8 | 2904.6 | 2827.9 | 2806.2 | 2788.9 | 2758.8 | 2731.8 |
| 60° | 3575.4 | 3597.1 | 3621.9 | 3679.0 | 3676.5 | 3733.9 | 3680.7 | 3667.3 | 3651.2 | 3558.4 | 3512.9 |
| 62.5° | 3960.8 | 3969.4 | 4006.0 | 4059.2 | 4111.6 | 4166.5 | 4191.3 | 4199.9 | 4166.2 | 4090.4 | 3995.6 |
| 65° | 3893.6 | 3931.8 | 3967.2 | 4013.2 | 4067.0 | 4121.9 | 4174.3 | 4204.9 | 4197.1 | 4147.0 | 4042.7 |
| 67.5° | 3588.5 | 3628.6 | 3680.4 | 3728.6 | 3786.6 | 3834.3 | 3891.7 | 3948.0 | 3949.7 | 3924.6 | 3852.1 |
| 70° | 3143.1 | 3189.7 | 3243.2 | 3270.2 | 3332.9 | 3376.1 | 3423.8 | 3479.5 | 3497.6 | 3500.7 | 3416.2 |
| 72.5° | 2555.3 | 2574.9 | 2601.1 | 2586.8 | 2599.4 | 2627.0 | 2614.2 | 2618.6 | 2549.8 | 2562.6 | 2458.4 |
| 75° | 1556.2 | 1538.4 | 1459.2 | 1387.1 | 1299.0 | 1231.3 | 1247.4 | 1118.1 | 990.8 | 984.3 | 892.4 |
| 77.5° | 789.3 | 760.8 | 711.8 | 660.8 | 586.1 | 500.5 | 429.2 | 352.3 | 287.3 | 250.3 | 214.9 |
| 80° | 672.2 | 652.1 | 625.1 | 588.0 | 533.7 | 470.4 | 396.0 | 337.5 | 283.2 | 226.6 | 181.4 |
| 82.5° | 643.2 | 581.9 | 542.6 | 511.7 | 452.9 | 394.4 | 353.7 | 313.5 | 275.1 | 240.2 | 190.3 |
| 85° | 319.1 | 282.3 | 238.8 | 211.8 | 163.0 | 127.6 | 119.6 | 98.4 | 91.7 | 70.8 | 59.6 |
| 87.5° | 107.3 | 87.8 | 65.5 | 55.2 | 44.0 | 36.0 | 35.4 | 31.5 | 31.2 | 28.4 | 26.2 |
| 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: P158093

CATALOG NUMBER: VTS-F02-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

| | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° | 95° | 105° | 115° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 |
| 2.5° | 461.5 | 462.1 | 462.1 | 461.5 | 461.8 | 461.2 | 461.5 | 461.8 | 461.0 | 460.7 | 459.8 |
| 5° | 472.9 | 472.7 | 472.7 | 472.9 | 473.8 | 474.1 | 472.7 | 473.2 | 473.5 | 472.1 | 469.0 |
| 7.5° | 491.9 | 491.9 | 492.7 | 492.5 | 494.1 | 493.6 | 493.3 | 493.3 | 493.3 | 490.5 | 485.5 |
| 10° | 517.5 | 517.5 | 518.4 | 519.5 | 519.8 | 519.2 | 519.2 | 519.5 | 520.9 | 515.3 | 507.5 |
| 12.5° | 546.2 | 547.6 | 547.4 | 547.4 | 550.7 | 549.9 | 548.7 | 549.9 | 551.3 | 543.5 | 532.3 |
| 15° | 578.3 | 579.1 | 579.7 | 581.6 | 581.1 | 583.0 | 583.6 | 583.0 | 584.4 | 574.4 | 555.7 |
| 17.5° | 607.3 | 608.9 | 609.5 | 611.7 | 611.7 | 612.0 | 614.2 | 613.4 | 613.7 | 602.3 | 575.5 |
| 20° | 631.2 | 632.9 | 633.8 | 636.3 | 636.8 | 637.9 | 638.8 | 639.3 | 640.7 | 627.1 | 591.7 |
| 22.5° | 655.2 | 656.6 | 658.0 | 659.7 | 661.9 | 663.3 | 664.4 | 665.0 | 667.5 | 651.6 | 607.0 |
| 25° | 682.0 | 685.0 | 686.4 | 689.2 | 691.4 | 693.7 | 695.3 | 695.6 | 699.8 | 680.0 | 619.5 |
| 27.5° | 717.6 | 721.8 | 724.0 | 728.5 | 730.7 | 733.0 | 732.4 | 735.8 | 741.6 | 712.6 | 629.3 |
| 30° | 764.5 | 769.8 | 771.1 | 775.6 | 779.2 | 781.5 | 784.0 | 786.8 | 790.7 | 748.9 | 634.0 |
| 32.5° | 829.7 | 837.8 | 839.7 | 842.2 | 847.5 | 851.4 | 853.1 | 857.5 | 858.7 | 783.1 | 632.6 |
| 35° | 919.1 | 915.5 | 925.0 | 927.2 | 934.7 | 937.8 | 939.8 | 945.6 | 941.2 | 820.5 | 623.4 |
| 37.5° | 1000.0 | 998.8 | 1008.0 | 1013.1 | 1022.8 | 1020.6 | 1025.3 | 1029.2 | 1013.3 | 847.0 | 606.4 |
| 40° | 1098.6 | 1097.2 | 1110.0 | 1111.7 | 1126.8 | 1123.4 | 1125.4 | 1128.4 | 1093.0 | 865.3 | 575.5 |
| 42.5° | 1236.3 | 1236.8 | 1250.5 | 1252.2 | 1254.1 | 1260.3 | 1250.2 | 1250.8 | 1177.8 | 870.4 | 524.5 |
| 45° | 1417.7 | 1427.5 | 1419.1 | 1419.4 | 1418.8 | 1407.1 | 1394.6 | 1379.8 | 1265.8 | 853.1 | 458.7 |
| 47.5° | 1593.6 | 1586.9 | 1576.3 | 1566.5 | 1558.5 | 1540.1 | 1521.7 | 1496.6 | 1341.9 | 812.1 | 385.4 |
| 50° | 1744.1 | 1729.0 | 1719.5 | 1692.5 | 1673.3 | 1649.3 | 1623.7 | 1595.0 | 1404.3 | 753.0 | 316.9 |
| 52.5° | 1884.0 | 1868.4 | 1833.0 | 1804.8 | 1777.2 | 1745.5 | 1715.6 | 1681.9 | 1459.5 | 685.6 | 264.5 |
| 55° | 2116.4 | 2102.7 | 2067.4 | 2015.8 | 1981.8 | 1938.0 | 1898.7 | 1853.0 | 1571.3 | 631.0 | 229.9 |
| 57.5° | 2657.3 | 2645.6 | 2571.2 | 2538.6 | 2493.8 | 2384.0 | 2367.8 | 2296.4 | 1870.9 | 624.6 | 209.6 |
| 60° | 3419.0 | 3368.9 | 3307.0 | 3217.8 | 3112.7 | 3076.5 | 2995.7 | 2900.6 | 2353.0 | 642.1 | 193.1 |
| 62.5° | 3886.7 | 3772.4 | 3681.6 | 3578.7 | 3482.0 | 3399.0 | 3310.6 | 3216.7 | 2599.7 | 619.0 | 172.8 |
| 65° | 3921.8 | 3787.5 | 3667.3 | 3546.7 | 3438.0 | 3334.6 | 3248.7 | 3154.8 | 2519.4 | 532.0 | 146.3 |
| 67.5° | 3728.4 | 3586.8 | 3455.8 | 3319.0 | 3209.2 | 3115.8 | 3006.6 | 2916.3 | 2293.1 | 414.1 | 121.8 |
| 70° | 3329.6 | 3205.3 | 3092.4 | 2945.0 | 2853.8 | 2740.1 | 2670.7 | 2557.9 | 1998.8 | 282.3 | 100.6 |
| 72.5° | 2398.2 | 2304.5 | 2267.7 | 2164.9 | 2045.6 | 1978.7 | 1946.7 | 1837.2 | 1477.1 | 175.3 | 82.2 |
| 75° | 810.2 | 833.3 | 780.3 | 699.2 | 738.8 | 677.8 | 702.6 | 650.5 | 624.8 | 100.6 | 69.1 |
| 77.5° | 179.8 | 168.9 | 156.1 | 144.9 | 144.1 | 135.4 | 143.5 | 135.7 | 145.2 | 64.1 | 61.0 |
| 80° | 141.9 | 112.0 | 95.3 | 87.0 | 82.5 | 80.0 | 78.0 | 75.8 | 69.1 | 54.6 | 56.3 |
| 82.5° | 153.3 | 115.7 | 84.7 | 67.7 | 58.0 | 54.3 | 53.5 | 51.3 | 50.7 | 53.0 | 56.9 |
| 85° | 49.1 | 41.0 | 34.8 | 32.9 | 30.4 | 29.0 | 28.4 | 27.6 | 33.4 | 57.7 | 54.6 |
| 87.5° | 25.6 | 22.6 | 20.1 | 19.2 | 16.7 | 15.6 | 15.3 | 15.6 | 23.4 | 57.7 | 39.6 |
| 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: P158093

CATALOG NUMBER: VTS-F02-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

| | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 |
| 2.5° | 459.0 | 458.7 | 458.2 | 457.9 | 457.6 | 456.2 | 457.3 |
| 5° | 467.6 | 464.9 | 462.4 | 459.3 | 457.6 | 456.2 | 456.2 |
| 7.5° | 480.7 | 472.9 | 466.5 | 459.6 | 454.8 | 451.2 | 450.6 |
| 10° | 497.2 | 482.1 | 467.4 | 454.8 | 445.9 | 439.2 | 438.4 |
| 12.5° | 512.8 | 489.9 | 466.5 | 445.9 | 432.0 | 422.5 | 421.9 |
| 15° | 527.3 | 494.1 | 460.1 | 429.7 | 408.8 | 396.3 | 394.9 |
| 17.5° | 538.7 | 491.6 | 445.6 | 407.2 | 378.7 | 364.0 | 363.1 |
| 20° | 541.2 | 481.6 | 425.0 | 379.3 | 349.2 | 333.6 | 330.0 |
| 22.5° | 539.0 | 463.5 | 399.4 | 348.6 | 314.1 | 298.5 | 296.5 |
| 25° | 532.3 | 441.5 | 367.6 | 313.0 | 280.9 | 265.0 | 261.1 |
| 27.5° | 520.3 | 415.5 | 333.3 | 278.4 | 246.6 | 231.3 | 227.4 |
| 30° | 502.5 | 384.3 | 296.8 | 246.1 | 213.2 | 200.9 | 197.0 |
| 32.5° | 477.7 | 346.4 | 260.9 | 212.9 | 185.6 | 175.9 | 174.2 |
| 35° | 443.4 | 302.9 | 223.2 | 185.6 | 165.5 | 159.7 | 158.9 |
| 37.5° | 399.6 | 259.5 | 191.7 | 166.1 | 151.6 | 148.0 | 147.4 |
| 40° | 342.5 | 214.9 | 169.4 | 152.2 | 141.6 | 138.5 | 138.0 |
| 42.5° | 283.7 | 181.4 | 153.0 | 141.0 | 132.4 | 129.6 | 128.8 |
| 45° | 232.2 | 158.9 | 140.7 | 131.8 | 123.7 | 120.7 | 120.4 |
| 47.5° | 193.7 | 145.8 | 130.7 | 123.5 | 115.4 | 111.8 | 112.0 |
| 50° | 165.5 | 133.8 | 122.3 | 116.2 | 107.0 | 103.7 | 104.0 |
| 52.5° | 146.3 | 121.8 | 114.5 | 107.6 | 99.8 | 96.4 | 96.4 |
| 55° | 131.3 | 112.0 | 107.0 | 99.5 | 93.4 | 90.3 | 90.0 |
| 57.5° | 119.0 | 104.2 | 99.8 | 93.6 | 87.5 | 83.9 | 83.9 |
| 60° | 111.5 | 98.7 | 95.0 | 89.5 | 82.2 | 78.3 | 78.0 |
| 62.5° | 107.0 | 97.0 | 93.9 | 86.1 | 78.0 | 74.1 | 73.3 |
| 65° | 103.7 | 100.9 | 97.0 | 84.2 | 74.7 | 70.5 | 69.7 |
| 67.5° | 104.0 | 110.1 | 104.5 | 85.3 | 73.6 | 67.4 | 66.3 |
| 70° | 105.6 | 117.3 | 109.8 | 87.8 | 78.3 | 66.1 | 63.5 |
| 72.5° | 97.3 | 106.2 | 98.9 | 83.6 | 76.4 | 63.5 | 60.5 |
| 75° | 81.1 | 77.5 | 71.1 | 68.0 | 68.6 | 57.7 | 56.6 |
| 77.5° | 65.8 | 57.7 | 51.6 | 54.1 | 57.7 | 49.3 | 48.2 |
| 80° | 57.1 | 46.8 | 43.8 | 47.9 | 52.4 | 42.1 | 39.3 |
| 82.5° | 53.5 | 39.6 | 37.6 | 49.9 | 54.9 | 36.2 | 31.8 |
| 85° | 47.1 | 32.3 | 29.5 | 58.8 | 54.9 | 27.3 | 25.4 |
| 87.5° | 31.5 | 19.2 | 18.4 | 43.2 | 37.6 | 19.0 | 15.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)