

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: P158103

Luminaire Tested: **VTS-F03-LED-E1-SL2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158103
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-F03-LED-E1-SL2-8030
Description: VENTUS LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

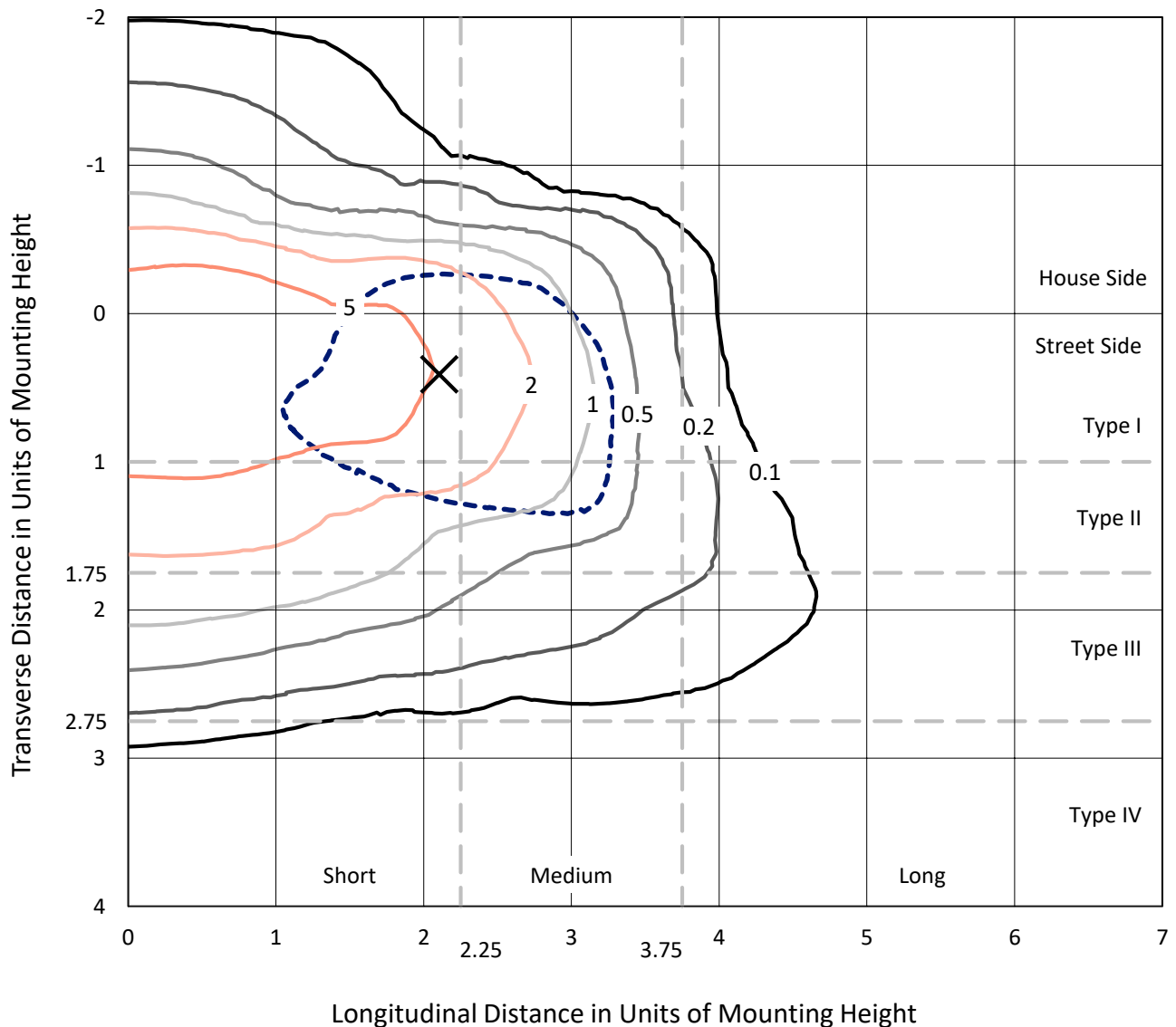
Lumens per Lamp: N/A
Luminaire Lumens: 6288.9 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 78.3
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

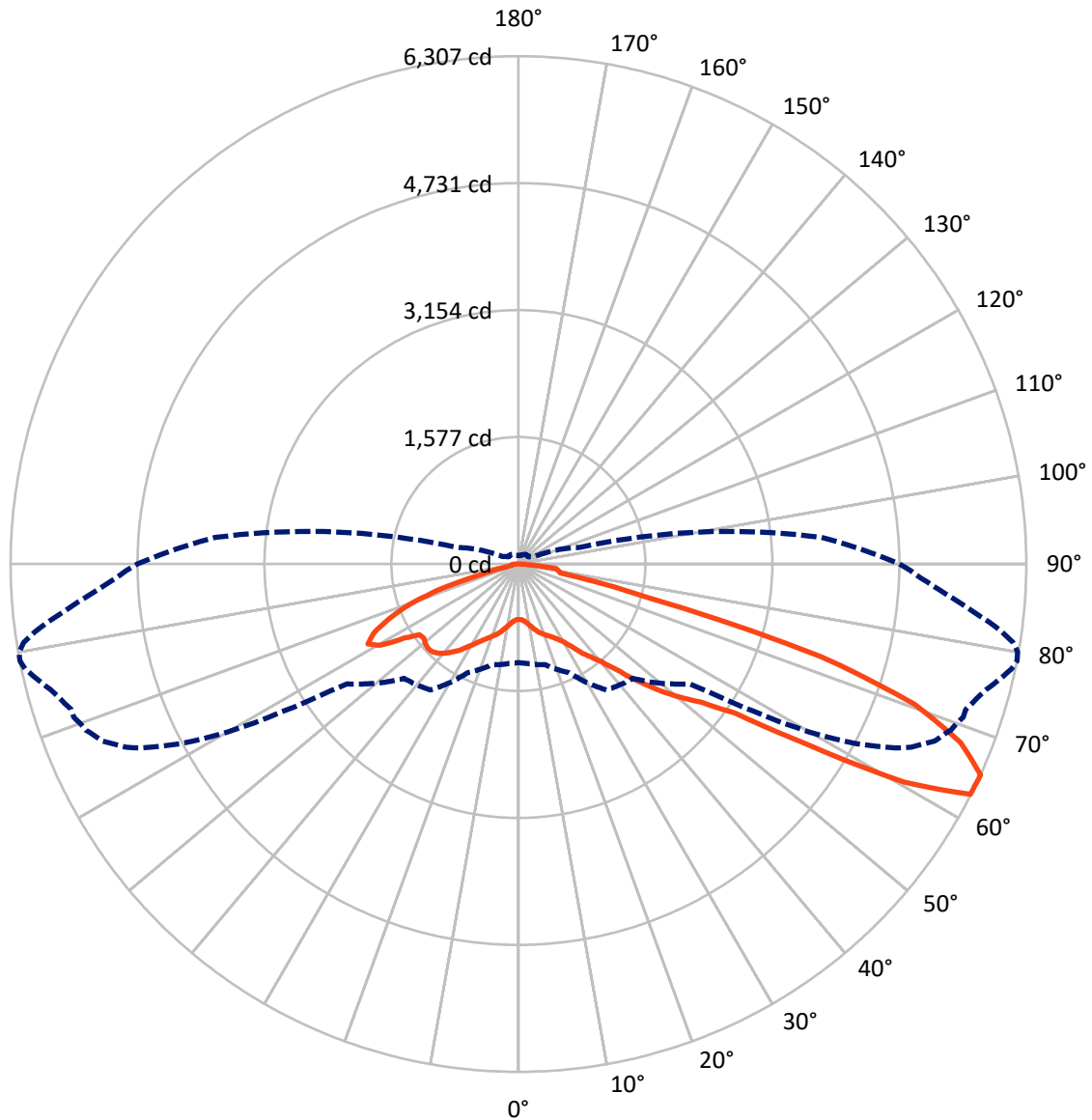
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - Non-Cutoff

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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 | 1445.1 | 0.0 | 1445.1 |
| | % Fixture | 23.0 | 0.0 | 23.0 |
| Street Side | Lumens | 4843.9 | 0.0 | 4843.9 |
| | % Fixture | 77.0 | 0.0 | 77.0 |
| Total | Lumens | 6288.9 | 0.0 | 6288.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.1 | 1.1 |
| 10°-20° | 221.1 | 3.5 |
| 20°-30° | 381.2 | 6.1 |
| 30°-40° | 624.4 | 9.9 |
| 40°-50° | 1045.6 | 16.6 |
| 50°-60° | 1414.3 | 22.5 |
| 60°-70° | 1741.7 | 27.7 |
| 70°-80° | 674.2 | 10.7 |
| 80°-90° | 118.6 | 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° | 6288.9 | 100.0 |
| 0°-180° | 6288.9 | 100.0 |



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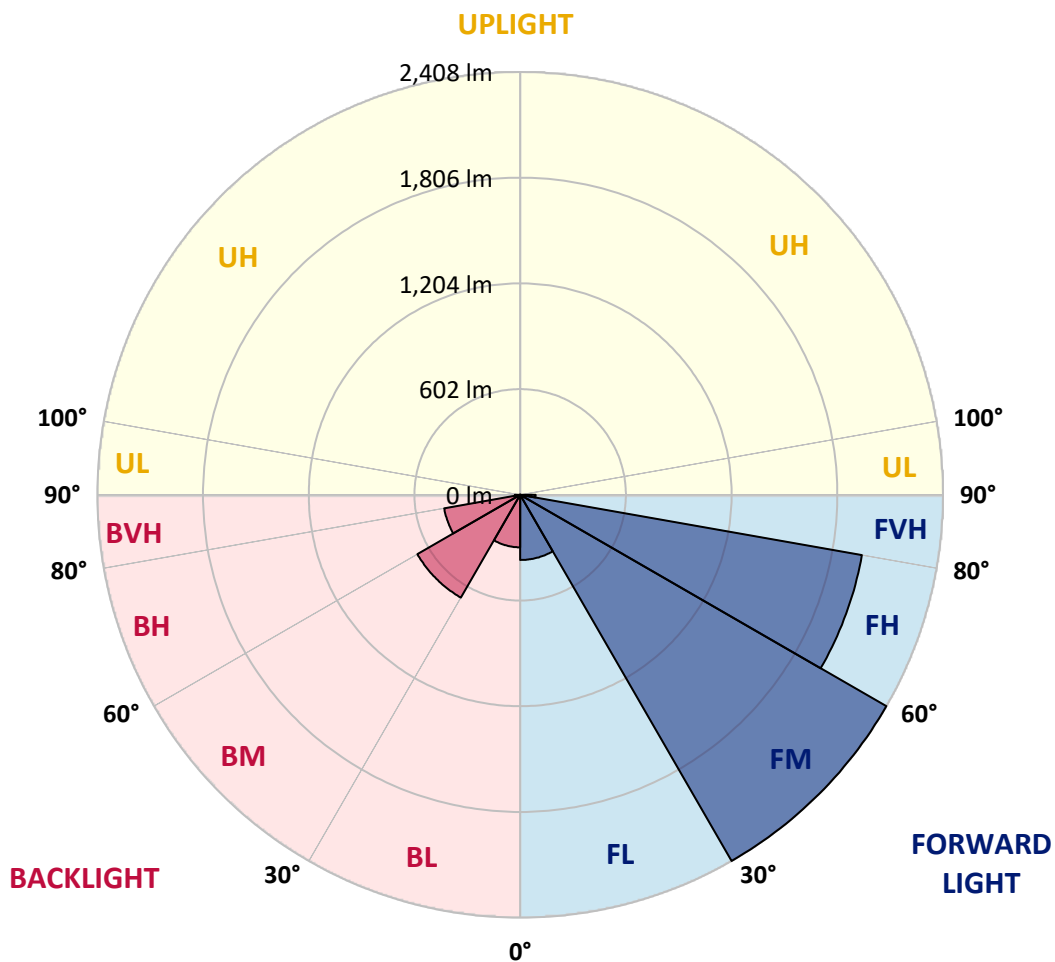
CATALOG NUMBER: VTS-F03-LED-E1-SL2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 371.3 | 5.9 | | | |
| FM | (30°-60°) | 2408.4 | 38.3 | | | |
| FH | (60°-80°) | 1976.2 | 31.4 | | | G2/5000 |
| FVH | (80°-90°) | 88.0 | 1.4 | | | G1/100 |
| BL | (0°-30°) | 299.1 | 4.8 | B1/500 | | |
| BM | (30°-60°) | 675.8 | 10.7 | B1/1000 | | |
| BH | (60°-80°) | 439.6 | 7.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 30.6 | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 |
| 2.5° | 689.4 | 687.3 | 689.4 | 691.0 | 692.3 | 693.9 | 693.5 | 693.1 | 692.7 | 693.1 | 693.1 |
| 5° | 695.2 | 694.8 | 696.9 | 698.5 | 701.5 | 703.6 | 706.1 | 706.1 | 706.1 | 705.7 | 706.5 |
| 7.5° | 714.0 | 713.6 | 715.7 | 717.4 | 719.9 | 724.0 | 727.4 | 729.1 | 728.6 | 728.6 | 728.6 |
| 10° | 744.9 | 743.3 | 743.3 | 743.3 | 746.6 | 749.5 | 757.1 | 757.9 | 759.6 | 758.7 | 759.2 |
| 12.5° | 775.0 | 775.5 | 774.2 | 773.0 | 773.4 | 779.2 | 790.1 | 792.2 | 792.6 | 793.9 | 794.7 |
| 15° | 802.2 | 801.8 | 798.9 | 796.0 | 799.7 | 809.7 | 824.0 | 827.7 | 827.7 | 830.2 | 831.9 |
| 17.5° | 827.3 | 826.5 | 821.0 | 816.0 | 819.8 | 836.9 | 859.1 | 861.6 | 865.3 | 866.6 | 868.3 |
| 20° | 857.0 | 855.3 | 849.0 | 835.7 | 835.7 | 859.1 | 888.3 | 890.8 | 894.2 | 895.0 | 898.0 |
| 22.5° | 898.4 | 894.2 | 880.8 | 856.6 | 849.9 | 877.1 | 913.0 | 914.3 | 916.8 | 920.1 | 922.6 |
| 25° | 945.2 | 946.0 | 924.3 | 882.1 | 867.4 | 895.9 | 936.8 | 938.9 | 943.5 | 946.0 | 949.0 |
| 27.5° | 993.7 | 994.9 | 970.7 | 918.0 | 893.4 | 921.8 | 969.0 | 971.5 | 977.0 | 979.9 | 984.5 |
| 30° | 1048.9 | 1050.5 | 1027.1 | 974.0 | 936.4 | 959.8 | 1016.7 | 1023.4 | 1028.0 | 1031.7 | 1039.3 |
| 32.5° | 1181.4 | 1171.4 | 1155.0 | 1098.6 | 1039.3 | 1037.6 | 1093.6 | 1101.1 | 1107.4 | 1115.3 | 1122.4 |
| 35° | 1348.2 | 1354.5 | 1362.8 | 1324.8 | 1272.5 | 1234.5 | 1239.1 | 1234.9 | 1240.7 | 1252.5 | 1259.6 |
| 37.5° | 1480.3 | 1494.1 | 1530.4 | 1555.1 | 1553.0 | 1545.5 | 1475.3 | 1475.3 | 1479.0 | 1472.8 | 1471.9 |
| 40° | 1584.0 | 1592.7 | 1667.1 | 1762.9 | 1843.6 | 1883.3 | 1827.7 | 1819.7 | 1823.9 | 1791.7 | 1793.0 |
| 42.5° | 1637.5 | 1650.4 | 1757.4 | 1925.5 | 2085.6 | 2213.1 | 2196.0 | 2190.5 | 2178.0 | 2170.1 | 2165.0 |
| 45° | 1664.6 | 1680.1 | 1807.6 | 2038.4 | 2271.6 | 2468.5 | 2557.2 | 2556.3 | 2545.0 | 2535.8 | 2531.7 |
| 47.5° | 1650.8 | 1664.2 | 1800.1 | 2072.6 | 2369.5 | 2633.2 | 2829.3 | 2841.4 | 2838.1 | 2851.5 | 2856.9 |
| 50° | 1560.5 | 1577.7 | 1714.0 | 1998.7 | 2328.5 | 2698.0 | 3017.8 | 3040.4 | 3070.9 | 3090.2 | 3115.7 |
| 52.5° | 1479.0 | 1493.2 | 1616.1 | 1878.7 | 2193.9 | 2645.4 | 3131.5 | 3178.0 | 3219.8 | 3259.1 | 3289.6 |
| 55° | 1393.7 | 1408.0 | 1515.8 | 1754.1 | 2058.0 | 2489.9 | 3183.4 | 3251.1 | 3316.3 | 3382.8 | 3443.8 |
| 57.5° | 1361.6 | 1376.6 | 1456.9 | 1657.5 | 1946.8 | 2335.6 | 3208.9 | 3320.1 | 3426.3 | 3539.1 | 3656.2 |
| 60° | 1445.2 | 1458.5 | 1519.6 | 1660.0 | 1862.0 | 2181.3 | 3157.5 | 3332.2 | 3514.9 | 3700.9 | 3880.7 |
| 62.5° | 1419.7 | 1426.8 | 1502.9 | 1720.7 | 1970.2 | 2029.2 | 2934.7 | 3165.4 | 3430.9 | 3703.4 | 3978.9 |
| 65° | 1224.9 | 1238.7 | 1295.9 | 1487.4 | 1909.6 | 2008.7 | 2595.2 | 2827.2 | 3140.3 | 3462.6 | 3831.8 |
| 67.5° | 878.7 | 859.5 | 903.8 | 1071.4 | 1481.5 | 2005.3 | 2213.1 | 2384.9 | 2630.3 | 2877.4 | 3180.0 |
| 70° | 399.2 | 390.0 | 424.7 | 557.2 | 893.8 | 1584.8 | 1871.2 | 1929.3 | 2020.4 | 2186.8 | 2391.2 |
| 72.5° | 157.6 | 157.2 | 179.8 | 230.3 | 422.6 | 1020.0 | 1573.5 | 1607.0 | 1639.1 | 1711.5 | 1799.7 |
| 75° | 103.3 | 103.3 | 109.9 | 124.2 | 208.2 | 492.5 | 1331.0 | 1361.6 | 1410.9 | 1431.4 | 1469.0 |
| 77.5° | 77.8 | 78.2 | 81.1 | 84.4 | 115.0 | 259.2 | 939.3 | 1047.6 | 1131.2 | 1193.5 | 1239.1 |
| 80° | 55.2 | 57.7 | 63.1 | 65.2 | 74.8 | 147.6 | 530.9 | 609.1 | 703.6 | 804.3 | 931.0 |
| 82.5° | 41.4 | 44.3 | 53.5 | 56.0 | 59.4 | 84.0 | 239.5 | 271.7 | 317.3 | 411.4 | 591.5 |
| 85° | 19.2 | 21.3 | 36.8 | 40.1 | 43.1 | 48.5 | 121.7 | 135.9 | 154.3 | 168.9 | 196.9 |
| 87.5° | 2.9 | 2.1 | 6.3 | 8.8 | 13.8 | 14.2 | 41.8 | 49.7 | 53.9 | 64.8 | 67.3 |
| 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-F03-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | 71° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 |
| 2.5° | 693.1 | 693.5 | 693.9 | 693.1 | 693.5 | 693.5 | 692.7 | 692.3 | 692.3 | 692.3 | 692.7 |
| 5° | 706.5 | 707.3 | 706.5 | 706.9 | 708.6 | 708.2 | 707.3 | 706.9 | 708.6 | 709.0 | 707.7 |
| 7.5° | 730.3 | 730.7 | 729.1 | 731.2 | 732.0 | 732.4 | 732.4 | 733.2 | 733.2 | 734.5 | 733.2 |
| 10° | 760.8 | 760.8 | 763.8 | 763.3 | 763.8 | 764.6 | 765.0 | 766.7 | 767.9 | 767.9 | 768.8 |
| 12.5° | 796.0 | 796.4 | 799.3 | 799.7 | 801.4 | 801.8 | 804.3 | 802.6 | 806.8 | 806.8 | 808.1 |
| 15° | 832.3 | 835.2 | 835.7 | 839.8 | 840.7 | 841.1 | 844.4 | 844.4 | 847.4 | 847.8 | 848.6 |
| 17.5° | 868.3 | 870.8 | 872.5 | 875.8 | 878.7 | 880.0 | 881.2 | 883.7 | 885.8 | 886.7 | 888.8 |
| 20° | 899.2 | 901.7 | 903.4 | 906.7 | 909.2 | 911.3 | 912.6 | 915.5 | 917.6 | 918.4 | 921.4 |
| 22.5° | 925.1 | 926.8 | 929.7 | 934.3 | 935.2 | 937.7 | 941.4 | 943.5 | 944.4 | 946.9 | 950.2 |
| 25° | 952.7 | 955.2 | 956.9 | 961.1 | 964.4 | 968.6 | 971.9 | 975.3 | 976.1 | 979.5 | 982.4 |
| 27.5° | 989.5 | 992.0 | 992.4 | 1000.8 | 1004.1 | 1010.0 | 1013.8 | 1018.8 | 1021.3 | 1024.2 | 1030.1 |
| 30° | 1043.8 | 1049.7 | 1052.2 | 1061.8 | 1063.5 | 1070.2 | 1076.9 | 1078.5 | 1082.3 | 1082.7 | 1092.3 |
| 32.5° | 1127.0 | 1135.4 | 1138.7 | 1148.8 | 1151.3 | 1157.6 | 1161.3 | 1170.1 | 1170.5 | 1174.7 | 1176.8 |
| 35° | 1263.3 | 1261.2 | 1274.2 | 1276.7 | 1284.2 | 1289.7 | 1293.4 | 1293.4 | 1301.4 | 1301.8 | 1304.3 |
| 37.5° | 1449.3 | 1445.2 | 1448.5 | 1433.5 | 1437.2 | 1430.5 | 1429.3 | 1431.0 | 1427.6 | 1428.4 | 1428.0 |
| 40° | 1747.0 | 1728.2 | 1708.5 | 1662.1 | 1652.1 | 1632.9 | 1617.8 | 1605.7 | 1594.0 | 1581.5 | 1573.1 |
| 42.5° | 2120.3 | 2093.1 | 2063.9 | 1989.5 | 1954.8 | 1917.6 | 1881.2 | 1860.3 | 1818.5 | 1793.0 | 1779.2 |
| 45° | 2511.6 | 2479.8 | 2438.9 | 2377.0 | 2327.7 | 2287.9 | 2221.5 | 2190.1 | 2125.3 | 2093.1 | 2049.7 |
| 47.5° | 2832.2 | 2832.6 | 2799.6 | 2736.9 | 2684.2 | 2657.9 | 2616.5 | 2555.9 | 2482.3 | 2440.9 | 2363.6 |
| 50° | 3112.7 | 3112.3 | 3110.2 | 3072.6 | 3035.8 | 3007.0 | 2970.6 | 2915.8 | 2855.6 | 2808.8 | 2720.2 |
| 52.5° | 3320.1 | 3347.7 | 3359.4 | 3359.0 | 3354.4 | 3341.0 | 3313.4 | 3266.2 | 3205.1 | 3178.8 | 3108.1 |
| 55° | 3491.5 | 3551.7 | 3583.0 | 3651.6 | 3657.9 | 3680.0 | 3655.8 | 3656.2 | 3620.2 | 3622.7 | 3600.2 |
| 57.5° | 3751.1 | 3861.0 | 3924.2 | 4075.9 | 4152.0 | 4244.0 | 4227.7 | 4304.6 | 4332.6 | 4368.1 | 4415.4 |
| 60° | 4045.8 | 4251.1 | 4400.7 | 4702.5 | 4825.5 | 4974.3 | 5056.2 | 5143.6 | 5207.1 | 5272.3 | 5320.4 |
| 62.5° | 4256.5 | 4526.1 | 4771.9 | 5202.1 | 5361.8 | 5518.6 | 5621.8 | 5727.6 | 5799.1 | 5845.9 | 5880.6 |
| 65° | 4170.4 | 4468.4 | 4759.0 | 5210.0 | 5384.0 | 5497.7 | 5620.6 | 5681.6 | 5753.1 | 5792.0 | 5841.7 |
| 67.5° | 3543.7 | 3842.6 | 4154.1 | 4686.2 | 4868.1 | 5025.3 | 5121.0 | 5200.0 | 5257.7 | 5307.0 | 5364.3 |
| 70° | 2635.3 | 2962.2 | 3284.1 | 3867.7 | 4097.2 | 4324.2 | 4437.1 | 4534.9 | 4595.1 | 4644.9 | 4708.0 |
| 72.5° | 1896.7 | 2101.5 | 2302.6 | 2956.0 | 3185.5 | 3478.9 | 3596.0 | 3704.7 | 3782.9 | 3780.3 | 3847.2 |
| 75° | 1510.0 | 1593.2 | 1682.6 | 2020.0 | 2184.7 | 2432.2 | 2497.8 | 2558.8 | 2522.0 | 2451.4 | 2447.2 |
| 77.5° | 1257.1 | 1291.3 | 1321.4 | 1427.2 | 1451.4 | 1510.4 | 1477.8 | 1443.9 | 1334.8 | 1242.8 | 1194.3 |
| 80° | 1020.4 | 1088.2 | 1132.5 | 1207.7 | 1238.7 | 1256.2 | 1260.8 | 1249.1 | 1209.0 | 1153.4 | 1064.8 |
| 82.5° | 758.7 | 887.5 | 975.3 | 1123.3 | 1177.6 | 1188.9 | 1210.6 | 1197.3 | 1170.9 | 1125.8 | 1062.2 |
| 85° | 222.4 | 251.7 | 288.4 | 391.3 | 458.6 | 515.9 | 574.4 | 603.2 | 621.2 | 596.1 | 530.5 |
| 87.5° | 78.2 | 88.2 | 98.7 | 135.9 | 144.6 | 174.7 | 171.4 | 202.3 | 203.6 | 212.4 | 203.2 |
| 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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CATALOG NUMBER: VTS-F03-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

| | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 |
| 2.5° | 692.3 | 692.3 | 692.3 | 692.7 | 692.7 | 692.7 | 691.9 | 691.4 | 691.9 | 692.7 | 692.7 |
| 5° | 708.6 | 709.0 | 709.8 | 708.2 | 708.6 | 709.8 | 709.0 | 708.6 | 709.0 | 709.8 | 709.0 |
| 7.5° | 734.9 | 735.3 | 734.5 | 736.2 | 736.2 | 737.0 | 738.3 | 737.0 | 737.4 | 737.8 | 738.3 |
| 10° | 769.2 | 769.6 | 770.5 | 771.7 | 772.1 | 773.0 | 773.8 | 775.0 | 775.0 | 774.2 | 776.3 |
| 12.5° | 810.2 | 809.7 | 810.6 | 812.3 | 813.1 | 814.3 | 816.9 | 816.9 | 818.5 | 818.1 | 820.2 |
| 15° | 850.3 | 852.4 | 852.8 | 855.7 | 857.0 | 859.1 | 862.0 | 863.7 | 863.7 | 866.2 | 867.0 |
| 17.5° | 890.4 | 892.1 | 893.8 | 896.3 | 898.0 | 899.2 | 902.6 | 904.6 | 904.2 | 908.8 | 908.8 |
| 20° | 921.4 | 924.7 | 926.8 | 928.5 | 931.4 | 933.5 | 936.0 | 938.5 | 940.2 | 943.1 | 943.9 |
| 22.5° | 951.5 | 953.6 | 956.5 | 958.6 | 961.9 | 964.4 | 967.3 | 969.4 | 972.4 | 976.1 | 977.4 |
| 25° | 984.9 | 988.2 | 991.6 | 994.5 | 997.0 | 1000.0 | 1005.0 | 1009.6 | 1013.8 | 1017.1 | 1018.3 |
| 27.5° | 1031.3 | 1035.1 | 1040.1 | 1042.2 | 1045.9 | 1048.4 | 1056.0 | 1061.8 | 1063.9 | 1069.8 | 1071.4 |
| 30° | 1094.0 | 1098.2 | 1103.2 | 1105.7 | 1112.4 | 1115.8 | 1123.7 | 1130.0 | 1132.1 | 1139.2 | 1140.4 |
| 32.5° | 1184.7 | 1187.2 | 1197.3 | 1196.9 | 1206.0 | 1215.7 | 1220.3 | 1225.3 | 1234.5 | 1238.2 | 1239.5 |
| 35° | 1310.6 | 1316.4 | 1323.5 | 1323.1 | 1334.8 | 1340.2 | 1349.4 | 1354.9 | 1361.6 | 1361.1 | 1368.2 |
| 37.5° | 1432.2 | 1434.3 | 1436.8 | 1442.2 | 1450.6 | 1458.1 | 1461.5 | 1466.9 | 1471.9 | 1479.4 | 1488.6 |
| 40° | 1564.7 | 1569.7 | 1570.2 | 1573.1 | 1577.3 | 1586.9 | 1593.2 | 1599.0 | 1616.1 | 1627.0 | 1632.5 |
| 42.5° | 1763.3 | 1762.0 | 1753.7 | 1759.1 | 1761.6 | 1776.3 | 1780.9 | 1798.8 | 1818.1 | 1841.1 | 1847.3 |
| 45° | 2018.7 | 2002.0 | 1997.0 | 1994.9 | 2008.3 | 2015.8 | 2034.6 | 2068.1 | 2088.1 | 2109.9 | 2120.3 |
| 47.5° | 2333.1 | 2280.8 | 2256.2 | 2250.7 | 2264.5 | 2296.7 | 2303.0 | 2336.0 | 2362.4 | 2378.2 | 2388.7 |
| 50° | 2647.9 | 2606.9 | 2555.1 | 2537.5 | 2533.7 | 2563.4 | 2570.5 | 2598.1 | 2624.9 | 2629.5 | 2624.0 |
| 52.5° | 3043.3 | 2976.5 | 2890.8 | 2859.8 | 2835.2 | 2837.2 | 2843.1 | 2854.8 | 2871.9 | 2864.8 | 2850.2 |
| 55° | 3549.2 | 3473.1 | 3430.9 | 3372.3 | 3335.1 | 3328.4 | 3302.9 | 3267.8 | 3266.6 | 3271.2 | 3227.3 |
| 57.5° | 4391.5 | 4359.8 | 4377.7 | 4371.5 | 4334.7 | 4356.8 | 4241.9 | 4209.3 | 4183.3 | 4138.2 | 4097.6 |
| 60° | 5363.1 | 5395.7 | 5432.9 | 5518.6 | 5514.8 | 5600.9 | 5521.1 | 5501.0 | 5476.8 | 5337.6 | 5269.4 |
| 62.5° | 5941.2 | 5954.2 | 6008.9 | 6088.8 | 6167.4 | 6249.7 | 6286.9 | 6299.9 | 6249.3 | 6135.6 | 5993.5 |
| 65° | 5840.5 | 5897.7 | 5950.8 | 6019.8 | 6100.5 | 6182.8 | 6261.4 | 6307.4 | 6295.7 | 6220.5 | 6064.1 |
| 67.5° | 5382.7 | 5442.9 | 5520.7 | 5593.0 | 5679.9 | 5751.4 | 5837.5 | 5922.0 | 5924.5 | 5886.9 | 5778.2 |
| 70° | 4714.7 | 4784.5 | 4864.7 | 4905.3 | 4999.4 | 5064.2 | 5135.6 | 5219.2 | 5246.4 | 5251.0 | 5124.4 |
| 72.5° | 3833.0 | 3862.3 | 3901.6 | 3880.3 | 3899.1 | 3940.5 | 3921.2 | 3927.9 | 3824.7 | 3843.9 | 3687.5 |
| 75° | 2334.3 | 2307.6 | 2188.9 | 2080.6 | 1948.5 | 1846.9 | 1871.2 | 1677.2 | 1486.1 | 1476.5 | 1338.6 |
| 77.5° | 1183.9 | 1141.3 | 1067.7 | 991.2 | 879.1 | 750.8 | 643.8 | 528.4 | 431.0 | 375.4 | 322.3 |
| 80° | 1008.3 | 978.2 | 937.7 | 882.1 | 800.5 | 705.7 | 594.0 | 506.2 | 424.7 | 339.9 | 272.1 |
| 82.5° | 964.8 | 872.9 | 813.9 | 767.5 | 679.3 | 591.5 | 530.5 | 470.3 | 412.6 | 360.4 | 285.5 |
| 85° | 478.7 | 423.5 | 358.3 | 317.7 | 244.6 | 191.5 | 179.3 | 147.6 | 137.5 | 106.2 | 89.5 |
| 87.5° | 160.9 | 131.7 | 98.2 | 82.8 | 66.1 | 53.9 | 53.1 | 47.2 | 46.8 | 42.6 | 39.3 |
| 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-F03-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

| | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° | 95° | 105° | 115° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 |
| 2.5° | 692.3 | 693.1 | 693.1 | 692.3 | 692.7 | 691.9 | 692.3 | 692.7 | 691.4 | 691.0 | 689.8 |
| 5° | 709.4 | 709.0 | 709.0 | 709.4 | 710.7 | 711.1 | 709.0 | 709.8 | 710.3 | 708.2 | 703.6 |
| 7.5° | 737.8 | 737.8 | 739.1 | 738.7 | 741.2 | 740.4 | 739.9 | 739.9 | 739.9 | 735.8 | 728.2 |
| 10° | 776.3 | 776.3 | 777.6 | 779.2 | 779.6 | 778.8 | 778.8 | 779.2 | 781.3 | 773.0 | 761.3 |
| 12.5° | 819.4 | 821.5 | 821.0 | 821.0 | 826.0 | 824.8 | 823.1 | 824.8 | 826.9 | 815.2 | 798.5 |
| 15° | 867.4 | 868.7 | 869.5 | 872.5 | 871.6 | 874.5 | 875.4 | 874.5 | 876.6 | 861.6 | 833.6 |
| 17.5° | 910.9 | 913.4 | 914.3 | 917.6 | 917.6 | 918.0 | 921.4 | 920.1 | 920.5 | 903.4 | 863.3 |
| 20° | 946.9 | 949.4 | 950.6 | 954.4 | 955.2 | 956.9 | 958.2 | 959.0 | 961.1 | 940.6 | 887.5 |
| 22.5° | 982.8 | 984.9 | 987.0 | 989.5 | 992.8 | 994.9 | 996.6 | 997.4 | 1001.2 | 977.4 | 910.5 |
| 25° | 1022.9 | 1027.5 | 1029.6 | 1033.8 | 1037.2 | 1040.5 | 1043.0 | 1043.4 | 1049.7 | 1020.0 | 929.3 |
| 27.5° | 1076.5 | 1082.7 | 1086.1 | 1092.8 | 1096.1 | 1099.4 | 1098.6 | 1103.6 | 1112.4 | 1068.9 | 943.9 |
| 30° | 1146.7 | 1154.6 | 1156.7 | 1163.4 | 1168.8 | 1172.2 | 1176.0 | 1180.1 | 1186.0 | 1123.3 | 951.0 |
| 32.5° | 1244.5 | 1256.6 | 1259.6 | 1263.3 | 1271.3 | 1277.1 | 1279.6 | 1286.3 | 1288.0 | 1174.7 | 949.0 |
| 35° | 1378.7 | 1373.3 | 1387.5 | 1390.8 | 1402.1 | 1406.7 | 1409.6 | 1418.4 | 1411.7 | 1230.7 | 935.2 |
| 37.5° | 1499.9 | 1498.3 | 1512.1 | 1519.6 | 1534.2 | 1530.9 | 1538.0 | 1543.8 | 1520.0 | 1270.4 | 909.7 |
| 40° | 1647.9 | 1645.8 | 1665.1 | 1667.6 | 1690.1 | 1685.1 | 1688.1 | 1692.6 | 1639.6 | 1298.0 | 863.3 |
| 42.5° | 1854.4 | 1855.3 | 1875.8 | 1878.3 | 1881.2 | 1890.4 | 1875.3 | 1876.2 | 1766.6 | 1305.5 | 786.8 |
| 45° | 2126.6 | 2141.2 | 2128.7 | 2129.1 | 2128.2 | 2110.7 | 2091.9 | 2069.7 | 1898.7 | 1279.6 | 688.1 |
| 47.5° | 2390.4 | 2380.3 | 2364.4 | 2349.8 | 2337.7 | 2310.1 | 2282.5 | 2244.9 | 2012.9 | 1218.2 | 578.2 |
| 50° | 2616.1 | 2593.5 | 2579.3 | 2538.8 | 2509.9 | 2474.0 | 2435.5 | 2392.5 | 2106.5 | 1129.5 | 475.3 |
| 52.5° | 2826.0 | 2802.5 | 2749.5 | 2707.2 | 2665.8 | 2618.2 | 2573.5 | 2522.9 | 2189.3 | 1028.4 | 396.7 |
| 55° | 3174.6 | 3154.1 | 3101.0 | 3023.7 | 2972.7 | 2907.1 | 2848.1 | 2779.6 | 2356.9 | 946.4 | 344.9 |
| 57.5° | 3986.0 | 3968.5 | 3856.8 | 3807.9 | 3740.6 | 3575.9 | 3551.7 | 3444.7 | 2806.3 | 936.8 | 314.4 |
| 60° | 5128.5 | 5053.3 | 4960.5 | 4826.7 | 4669.1 | 4614.8 | 4493.5 | 4351.0 | 3529.5 | 963.2 | 289.7 |
| 62.5° | 5830.0 | 5658.6 | 5522.3 | 5368.1 | 5223.0 | 5098.4 | 4965.9 | 4825.0 | 3899.5 | 928.5 | 259.2 |
| 65° | 5882.7 | 5681.2 | 5501.0 | 5320.0 | 5157.0 | 5001.9 | 4873.1 | 4732.2 | 3779.1 | 798.0 | 219.5 |
| 67.5° | 5592.6 | 5380.2 | 5183.7 | 4978.5 | 4813.7 | 4673.7 | 4509.8 | 4374.4 | 3439.6 | 621.2 | 182.7 |
| 70° | 4994.3 | 4807.9 | 4638.6 | 4417.4 | 4280.7 | 4110.2 | 4006.1 | 3836.8 | 2998.2 | 423.5 | 150.9 |
| 72.5° | 3597.2 | 3456.8 | 3401.6 | 3247.3 | 3068.4 | 2968.1 | 2920.0 | 2755.7 | 2215.6 | 262.9 | 123.3 |
| 75° | 1215.2 | 1249.9 | 1170.5 | 1048.9 | 1108.2 | 1016.7 | 1053.9 | 975.7 | 937.2 | 150.9 | 103.7 |
| 77.5° | 269.6 | 253.3 | 234.1 | 217.4 | 216.1 | 203.2 | 215.3 | 203.6 | 217.8 | 96.1 | 91.6 |
| 80° | 212.8 | 168.1 | 143.0 | 130.4 | 123.7 | 120.0 | 117.1 | 113.7 | 103.7 | 81.9 | 84.4 |
| 82.5° | 229.9 | 173.5 | 127.1 | 101.6 | 87.0 | 81.5 | 80.3 | 76.9 | 76.1 | 79.4 | 85.3 |
| 85° | 73.6 | 61.5 | 52.3 | 49.3 | 45.6 | 43.5 | 42.6 | 41.4 | 50.2 | 86.5 | 81.9 |
| 87.5° | 38.5 | 33.9 | 30.1 | 28.8 | 25.1 | 23.4 | 23.0 | 23.4 | 35.1 | 86.5 | 59.4 |
| 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-F03-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

| | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 | 688.1 |
| 2.5° | 688.5 | 688.1 | 687.3 | 686.8 | 686.4 | 684.3 | 686.0 |
| 5° | 701.5 | 697.3 | 693.5 | 688.9 | 686.4 | 684.3 | 684.3 |
| 7.5° | 721.1 | 709.4 | 699.8 | 689.4 | 682.2 | 676.8 | 676.0 |
| 10° | 745.8 | 723.2 | 701.1 | 682.2 | 668.9 | 658.8 | 657.6 |
| 12.5° | 769.2 | 734.9 | 699.8 | 668.9 | 648.0 | 633.8 | 632.9 |
| 15° | 790.9 | 741.2 | 690.2 | 644.6 | 613.3 | 594.5 | 592.4 |
| 17.5° | 808.1 | 737.4 | 668.4 | 610.8 | 568.1 | 546.0 | 544.7 |
| 20° | 811.8 | 722.4 | 637.5 | 569.0 | 523.8 | 500.4 | 495.0 |
| 22.5° | 808.5 | 695.2 | 599.1 | 523.0 | 471.1 | 447.7 | 444.8 |
| 25° | 798.5 | 662.2 | 551.4 | 469.5 | 421.4 | 397.6 | 391.7 |
| 27.5° | 780.5 | 623.3 | 500.0 | 417.6 | 370.0 | 347.0 | 341.1 |
| 30° | 753.7 | 576.5 | 445.2 | 369.1 | 319.8 | 301.4 | 295.6 |
| 32.5° | 716.5 | 519.6 | 391.3 | 319.4 | 278.4 | 263.8 | 261.3 |
| 35° | 665.1 | 454.4 | 334.9 | 278.4 | 248.3 | 239.5 | 238.3 |
| 37.5° | 599.5 | 389.2 | 287.6 | 249.2 | 227.4 | 222.0 | 221.1 |
| 40° | 513.8 | 322.3 | 254.2 | 228.3 | 212.4 | 207.8 | 206.9 |
| 42.5° | 425.6 | 272.1 | 229.5 | 211.5 | 198.6 | 194.4 | 193.1 |
| 45° | 348.2 | 238.3 | 211.1 | 197.7 | 185.6 | 181.0 | 180.6 |
| 47.5° | 290.5 | 218.6 | 196.1 | 185.2 | 173.1 | 167.6 | 168.1 |
| 50° | 248.3 | 200.7 | 183.5 | 174.3 | 160.5 | 155.5 | 155.9 |
| 52.5° | 219.5 | 182.7 | 171.8 | 161.4 | 149.7 | 144.6 | 144.6 |
| 55° | 196.9 | 168.1 | 160.5 | 149.2 | 140.0 | 135.4 | 135.0 |
| 57.5° | 178.5 | 156.3 | 149.7 | 140.5 | 131.3 | 125.8 | 125.8 |
| 60° | 167.2 | 148.0 | 142.6 | 134.2 | 123.3 | 117.5 | 117.1 |
| 62.5° | 160.5 | 145.5 | 140.9 | 129.2 | 117.1 | 111.2 | 109.9 |
| 65° | 155.5 | 151.3 | 145.5 | 126.2 | 112.0 | 105.8 | 104.5 |
| 67.5° | 155.9 | 165.1 | 156.8 | 127.9 | 110.4 | 101.2 | 99.5 |
| 70° | 158.4 | 176.0 | 164.7 | 131.7 | 117.5 | 99.1 | 95.3 |
| 72.5° | 145.9 | 159.3 | 148.4 | 125.4 | 114.5 | 95.3 | 90.7 |
| 75° | 121.7 | 116.2 | 106.6 | 102.0 | 102.8 | 86.5 | 84.9 |
| 77.5° | 98.7 | 86.5 | 77.3 | 81.1 | 86.5 | 74.0 | 72.3 |
| 80° | 85.7 | 70.2 | 65.6 | 71.9 | 78.6 | 63.1 | 58.9 |
| 82.5° | 80.3 | 59.4 | 56.4 | 74.8 | 82.4 | 54.3 | 47.7 |
| 85° | 70.6 | 48.5 | 44.3 | 88.2 | 82.4 | 41.0 | 38.0 |
| 87.5° | 47.2 | 28.8 | 27.6 | 64.8 | 56.4 | 28.4 | 23.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)