

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: P164970

Luminaire Tested: **VTS-F08-LED-E1-SL2-HSS-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P164970  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-F08-LED-E1-SL2-HSS-8030  
Description: VENTUS LED SITE LUMINAIRE  
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (56) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

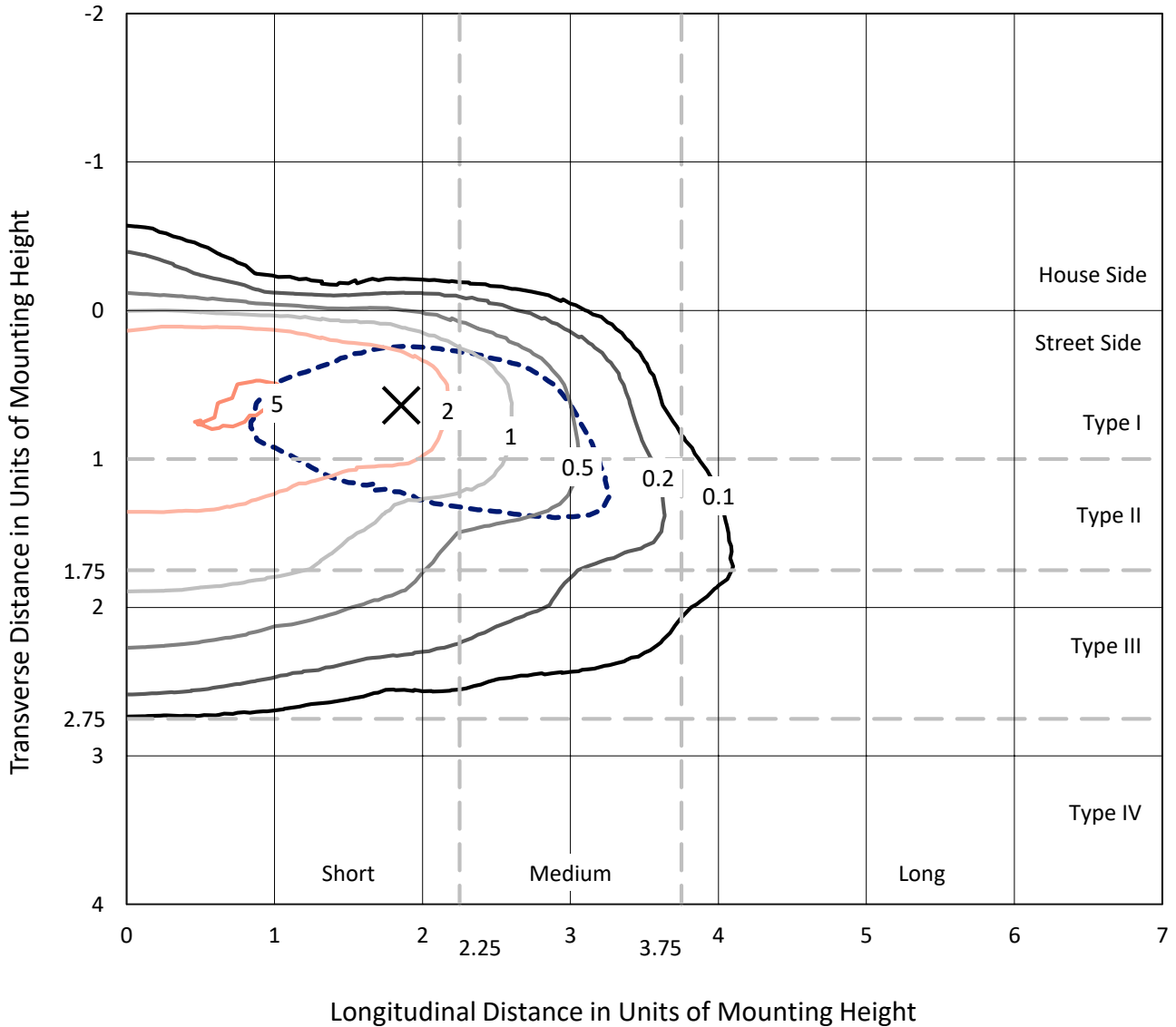
Lumens per Lamp: N/A  
Luminaire Lumens: 10098 lumens  
Efficiency: N/A  
Efficacy: 49.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.33' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 204.4  
Input Voltage (V): NR  
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: P164970

CATALOG NUMBER: VTS-F08-LED-E1-SL2-HSS-8030

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

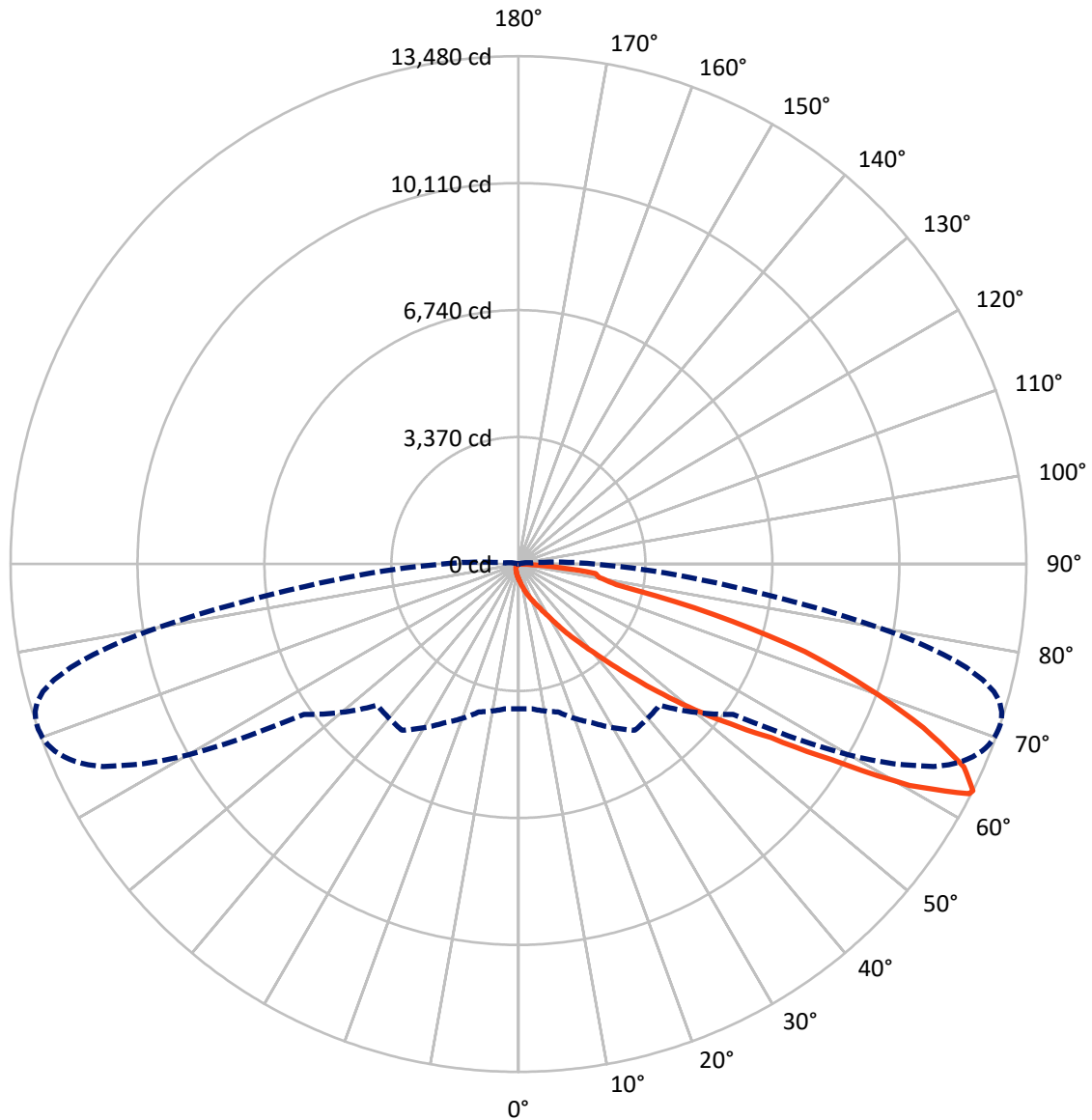


Based on 20 foot mounting height. Maximum calculated value = 5.3 fc  
 Type II - Short - Non-Cutoff

REPORT NUMBER: P164970

CATALOG NUMBER: VTS-F08-LED-E1-SL2-HSS-8030

### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P164970

CATALOG NUMBER: VTS-F08-LED-E1-SL2-HSS-8030

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 214.4    | 0.0    | 214.4   |
|                    | % Fixture | 2.1      | 0.0    | 2.1     |
| <b>Street Side</b> | Lumens    | 9883.6   | 0.0    | 9883.6  |
|                    | % Fixture | 97.9     | 0.0    | 97.9    |
| <b>Total</b>       | Lumens    | 10098.0  | 0.0    | 10098.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 42.8    | 0.4       |
| 10°-20°   | 166.0   | 1.6       |
| 20°-30°   | 337.2   | 3.3       |
| 30°-40°   | 824.0   | 8.2       |
| 40°-50°   | 1842.7  | 18.2      |
| 50°-60°   | 2591.1  | 25.7      |
| 60°-70°   | 3046.9  | 30.2      |
| 70°-80°   | 1100.2  | 10.9      |
| 80°-90°   | 147.1   | 1.5       |
| 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°    | 10098.0 | 100.0     |
| 0°-180°   | 10098.0 | 100.0     |



REPORT NUMBER: P164970

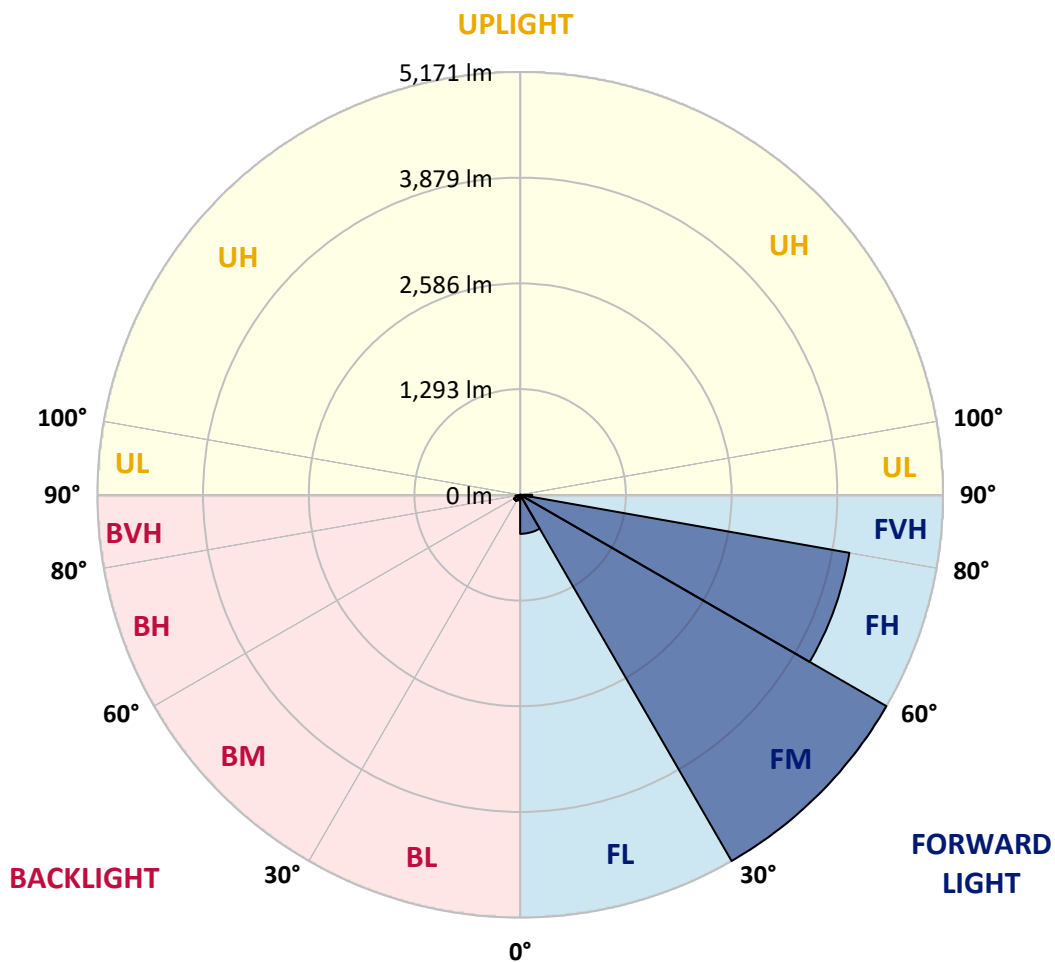
CATALOG NUMBER: VTS-F08-LED-E1-SL2-HSS-8030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 477.2  | 4.7       |                         |      |         |
| FM (30°-60°)   | 5171.3 | 51.2      |                         |      |         |
| FH (60°-80°)   | 4088.3 | 40.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 146.8  | 1.5       |                         |      | G2/225  |
| BL (0°-30°)    | 68.9   | 0.7       | B0/110                  |      |         |
| BM (30°-60°)   | 86.4   | 0.9       | B0/220                  |      |         |
| BH (60°-80°)   | 58.8   | 0.6       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.3    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G2**

Type II Short





REPORT NUMBER: P164970

CATALOG NUMBER: VTS-F08-LED-E1-SL2-HSS-8030

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 57°    | 58°    | 59°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 387.4  | 387.4  | 387.4  | 387.4  | 387.4  | 387.4  | 387.4  | 387.4  | 387.4  | 387.4  | 387.4  |
| 2.5°  | 506.7  | 512.1  | 508.4  | 499.3  | 488.3  | 473.7  | 460.7  | 460.7  | 459.0  | 453.4  | 455.3  |
| 5°    | 664.5  | 666.4  | 659.1  | 637.0  | 616.8  | 585.6  | 550.7  | 547.0  | 543.3  | 537.9  | 536.1  |
| 7.5°  | 818.8  | 826.0  | 818.8  | 794.8  | 754.5  | 706.8  | 651.7  | 646.2  | 635.2  | 635.2  | 627.8  |
| 10°   | 976.7  | 976.7  | 969.3  | 941.8  | 905.0  | 837.1  | 767.3  | 758.2  | 745.3  | 741.7  | 730.6  |
| 12.5° | 1088.6 | 1088.6 | 1084.9 | 1070.3 | 1040.9 | 980.3  | 895.8  | 886.7  | 870.2  | 864.6  | 851.8  |
| 15°   | 1132.6 | 1132.6 | 1134.5 | 1147.3 | 1149.2 | 1121.7 | 1033.5 | 1026.2 | 1009.7 | 994.9  | 989.5  |
| 17.5° | 1160.1 | 1158.4 | 1158.4 | 1176.8 | 1209.8 | 1228.1 | 1171.2 | 1163.8 | 1145.5 | 1138.2 | 1119.8 |
| 20°   | 1220.8 | 1217.1 | 1206.1 | 1206.1 | 1237.3 | 1301.5 | 1301.5 | 1299.7 | 1279.5 | 1274.0 | 1264.8 |
| 22.5° | 1310.8 | 1307.1 | 1274.0 | 1246.4 | 1261.1 | 1342.0 | 1417.2 | 1413.5 | 1406.2 | 1398.8 | 1393.4 |
| 25°   | 1457.6 | 1444.8 | 1387.8 | 1307.1 | 1294.3 | 1380.5 | 1505.3 | 1514.5 | 1520.0 | 1520.0 | 1523.7 |
| 27.5° | 1679.7 | 1663.2 | 1562.2 | 1411.8 | 1354.8 | 1442.9 | 1602.6 | 1621.0 | 1637.5 | 1641.2 | 1657.7 |
| 30°   | 1988.1 | 1958.8 | 1813.7 | 1593.5 | 1463.1 | 1534.7 | 1745.9 | 1766.0 | 1789.9 | 1797.2 | 1822.9 |
| 32.5° | 2494.8 | 2478.3 | 2338.8 | 2008.3 | 1729.2 | 1714.6 | 1946.0 | 1971.6 | 2002.8 | 2015.6 | 2046.8 |
| 35°   | 3265.9 | 3269.5 | 3155.7 | 2858.3 | 2472.8 | 2270.8 | 2303.9 | 2325.9 | 2336.9 | 2375.5 | 2392.0 |
| 37.5° | 3789.0 | 3798.2 | 3823.9 | 3706.4 | 3431.1 | 3225.4 | 2966.5 | 2990.5 | 2933.5 | 2939.0 | 2940.9 |
| 40°   | 4075.4 | 4104.7 | 4255.3 | 4369.1 | 4347.1 | 4227.8 | 4020.3 | 4033.2 | 3926.7 | 3902.8 | 3787.1 |
| 42.5° | 4266.3 | 4304.8 | 4545.4 | 4897.8 | 5077.7 | 5186.1 | 5138.3 | 5132.8 | 5050.2 | 5018.9 | 4921.6 |
| 45°   | 4385.6 | 4420.5 | 4723.4 | 5242.9 | 5657.8 | 5973.5 | 6103.8 | 6118.6 | 6048.8 | 6017.6 | 5936.9 |
| 47.5° | 4380.1 | 4420.5 | 4745.4 | 5371.4 | 5982.8 | 6487.6 | 6854.8 | 6873.0 | 6915.3 | 6887.8 | 6893.2 |
| 50°   | 4137.8 | 4176.4 | 4503.1 | 5152.9 | 5887.2 | 6722.6 | 7394.4 | 7453.2 | 7521.1 | 7567.0 | 7589.1 |
| 52.5° | 3844.1 | 3871.6 | 4161.7 | 4778.5 | 5479.7 | 6625.2 | 7713.8 | 7814.8 | 7915.8 | 8002.1 | 8062.6 |
| 55°   | 3735.7 | 3766.9 | 3994.6 | 4506.8 | 5152.9 | 6217.7 | 7862.5 | 8011.2 | 8154.5 | 8295.8 | 8411.4 |
| 57.5° | 3792.7 | 3822.0 | 3985.4 | 4378.3 | 4958.4 | 5788.1 | 7904.8 | 8136.1 | 8371.1 | 8600.5 | 8828.1 |
| 60°   | 4001.9 | 4033.2 | 4172.7 | 4497.6 | 4907.0 | 5540.3 | 7739.6 | 8123.3 | 8514.2 | 8914.4 | 9290.8 |
| 62.5° | 3919.3 | 3932.2 | 4137.8 | 4706.9 | 5274.1 | 5329.2 | 7139.3 | 7675.4 | 8272.0 | 8888.8 | 9496.3 |
| 63°   | 3840.4 | 3855.1 | 4064.4 | 4650.0 | 5386.2 | 5298.0 | 6953.9 | 7519.3 | 8148.9 | 8813.4 | 9474.4 |
| 65°   | 3482.5 | 3484.2 | 3644.0 | 4106.6 | 5261.3 | 5353.0 | 6127.8 | 6667.5 | 7390.7 | 8187.5 | 9022.8 |
| 67.5° | 2599.4 | 2586.6 | 2740.8 | 3093.3 | 4130.5 | 5354.9 | 5259.4 | 5562.4 | 6065.4 | 6772.2 | 7521.1 |
| 70°   | 921.6  | 901.4  | 1151.0 | 1639.3 | 2573.7 | 4380.1 | 4519.6 | 4539.8 | 4679.4 | 5061.2 | 5531.2 |
| 72.5° | 299.2  | 304.8  | 367.1  | 600.3  | 1185.9 | 2948.3 | 4091.9 | 4029.5 | 3992.8 | 3990.9 | 4053.3 |
| 75°   | 119.3  | 121.2  | 146.8  | 266.2  | 532.4  | 1420.9 | 3583.5 | 3618.2 | 3631.2 | 3649.4 | 3669.7 |
| 77.5° | 56.9   | 62.4   | 82.6   | 148.7  | 264.3  | 703.1  | 2564.5 | 2860.1 | 3029.0 | 3159.4 | 3238.3 |
| 80°   | 20.2   | 23.9   | 45.9   | 91.7   | 123.0  | 323.1  | 1351.1 | 1630.1 | 1878.0 | 2197.4 | 2472.8 |
| 82.5° | 0.0    | 0.0    | 9.1    | 64.2   | 67.9   | 130.3  | 554.4  | 649.8  | 743.4  | 963.7  | 1237.3 |
| 85°   | 0.0    | 0.0    | 0.0    | 18.4   | 20.2   | 22.1   | 187.3  | 225.9  | 253.4  | 295.5  | 341.5  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 5.5    | 11.0   | 27.5   | 42.3   |
| 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: P164970

CATALOG NUMBER: VTS-F08-LED-E1-SL2-HSS-8030

**CANDELA DISTRIBUTION (continued):**

|       | 60°     | 61°     | 62°     | 64°     | 65°     | 66°     | 67°     | 68°     | 69°     | 70°     | 71°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 387.4   | 387.4   | 387.4   | 387.4   | 387.4   | 387.4   | 387.4   | 387.4   | 387.4   | 387.4   | 387.4   |
| 2.5°  | 451.6   | 449.8   | 449.8   | 446.1   | 444.2   | 440.6   | 438.8   | 433.2   | 431.4   | 431.4   | 431.4   |
| 5°    | 534.2   | 526.8   | 523.2   | 514.0   | 508.4   | 506.7   | 497.5   | 493.8   | 488.3   | 490.2   | 480.9   |
| 7.5°  | 625.9   | 613.1   | 607.7   | 594.7   | 591.2   | 578.2   | 574.6   | 565.4   | 560.0   | 548.9   | 545.2   |
| 10°   | 726.9   | 710.4   | 701.3   | 681.0   | 675.6   | 666.4   | 655.4   | 644.3   | 635.2   | 624.2   | 618.7   |
| 12.5° | 842.7   | 827.9   | 820.6   | 793.1   | 780.2   | 767.3   | 752.7   | 738.0   | 723.3   | 714.1   | 701.3   |
| 15°   | 978.4   | 954.6   | 947.2   | 921.6   | 899.5   | 883.0   | 862.8   | 844.4   | 833.4   | 815.1   | 802.2   |
| 17.5° | 1112.4  | 1088.6  | 1083.1  | 1044.5  | 1020.7  | 1009.7  | 987.7   | 963.7   | 943.5   | 925.3   | 905.0   |
| 20°   | 1246.4  | 1229.9  | 1215.2  | 1178.5  | 1152.9  | 1134.5  | 1105.1  | 1081.2  | 1064.7  | 1039.1  | 1013.3  |
| 22.5° | 1380.5  | 1363.9  | 1353.0  | 1314.4  | 1290.6  | 1264.8  | 1239.2  | 1213.4  | 1189.6  | 1158.4  | 1129.0  |
| 25°   | 1518.2  | 1507.2  | 1501.6  | 1466.8  | 1444.8  | 1420.9  | 1395.1  | 1365.8  | 1336.4  | 1301.5  | 1270.4  |
| 27.5° | 1661.4  | 1665.0  | 1654.0  | 1646.6  | 1622.8  | 1606.3  | 1565.9  | 1545.7  | 1523.7  | 1481.4  | 1442.9  |
| 30°   | 1843.1  | 1854.1  | 1850.4  | 1856.0  | 1841.3  | 1830.2  | 1799.0  | 1773.4  | 1747.6  | 1707.3  | 1663.2  |
| 32.5° | 2072.6  | 2087.3  | 2094.6  | 2114.8  | 2107.5  | 2103.8  | 2094.6  | 2057.9  | 2039.5  | 1969.8  | 1951.4  |
| 35°   | 2426.9  | 2419.5  | 2450.7  | 2467.2  | 2459.9  | 2456.3  | 2445.3  | 2425.1  | 2403.0  | 2353.4  | 2307.6  |
| 37.5° | 2887.6  | 2895.0  | 2906.0  | 2873.0  | 2850.9  | 2849.1  | 2816.0  | 2795.9  | 2764.6  | 2709.6  | 2654.5  |
| 40°   | 3732.1  | 3686.2  | 3634.8  | 3495.3  | 3434.7  | 3399.8  | 3302.5  | 3275.0  | 3221.7  | 3146.5  | 3089.6  |
| 42.5° | 4829.9  | 4784.0  | 4629.8  | 4396.7  | 4271.8  | 4099.3  | 4020.3  | 3923.0  | 3847.8  | 3724.8  | 3658.7  |
| 45°   | 5920.4  | 5788.1  | 5769.8  | 5498.1  | 5343.9  | 5116.3  | 4974.9  | 4811.5  | 4640.8  | 4479.3  | 4361.8  |
| 47.5° | 6840.0  | 6810.6  | 6720.8  | 6555.4  | 6412.3  | 6221.3  | 6039.6  | 5788.1  | 5611.9  | 5382.5  | 5171.3  |
| 50°   | 7576.1  | 7574.4  | 7541.2  | 7445.8  | 7326.5  | 7172.4  | 7012.6  | 6799.7  | 6599.6  | 6318.7  | 6092.9  |
| 52.5° | 8126.9  | 8156.3  | 8167.3  | 8137.9  | 8092.1  | 7956.2  | 7875.5  | 7697.3  | 7528.4  | 7289.7  | 7045.6  |
| 55°   | 8530.7  | 8639.1  | 8694.1  | 8756.6  | 8743.8  | 8696.0  | 8692.4  | 8576.6  | 8499.6  | 8310.4  | 8137.9  |
| 57.5° | 9030.1  | 9208.2  | 9378.8  | 9681.8  | 9692.8  | 9799.3  | 9854.4  | 9909.5  | 9924.1  | 9848.8  | 9792.0  |
| 60°   | 9665.2  | 10028.8 | 10351.8 | 10985.2 | 11150.4 | 11411.1 | 11580.0 | 11763.6 | 11919.5 | 11932.5 | 11928.8 |
| 62.5° | 10113.1 | 10673.1 | 11194.5 | 12134.3 | 12455.6 | 12756.7 | 12982.5 | 13160.6 | 13268.9 | 13379.0 | 13430.4 |
| 63°   | 10126.1 | 10739.2 | 11293.6 | 12262.9 | 12600.7 | 12887.0 | 13101.9 | 13267.1 | 13380.9 | 13446.9 | 13480.0 |
| 65°   | 9815.8  | 10559.3 | 11220.1 | 12185.7 | 12503.3 | 12791.6 | 12903.5 | 13011.9 | 13067.0 | 13092.6 | 12995.3 |
| 67.5° | 8319.7  | 9046.6  | 9817.6  | 10897.1 | 11168.7 | 11513.9 | 11605.7 | 11660.8 | 11686.4 | 11681.0 | 11598.4 |
| 70°   | 6221.3  | 6830.9  | 7688.2  | 8921.8  | 9281.6  | 9619.4  | 9828.7  | 9918.6  | 9947.9  | 9938.8  | 9815.8  |
| 72.5° | 4343.4  | 4701.3  | 5408.1  | 6781.3  | 7271.5  | 7704.7  | 7963.5  | 8097.5  | 8125.1  | 8070.0  | 7956.2  |
| 75°   | 3647.7  | 3666.1  | 3825.7  | 4576.5  | 5035.4  | 5498.1  | 5789.9  | 5874.4  | 5819.4  | 5652.3  | 5362.3  |
| 77.5° | 3256.6  | 3297.1  | 3297.1  | 3409.0  | 3499.0  | 3627.5  | 3655.0  | 3449.3  | 3210.8  | 2902.3  | 2652.7  |
| 80°   | 2731.6  | 2873.0  | 2972.1  | 3054.7  | 3063.9  | 3038.2  | 2970.2  | 2854.6  | 2671.0  | 2436.0  | 2175.4  |
| 82.5° | 1659.6  | 1938.6  | 2052.4  | 2478.3  | 2687.5  | 2828.9  | 2817.9  | 2663.6  | 2524.2  | 2280.1  | 2057.9  |
| 85°   | 418.6   | 451.6   | 490.2   | 637.0   | 714.1   | 872.0   | 971.1   | 1017.0  | 1033.5  | 949.1   | 859.2   |
| 87.5° | 40.4    | 27.5    | 45.9    | 34.9    | 49.6    | 36.7    | 49.6    | 45.9    | 56.9    | 60.5    | 66.1    |
| 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: P164970

CATALOG NUMBER: VTS-F08-LED-E1-SL2-HSS-8030

**CANDELA DISTRIBUTION (continued):**

|       | 72°     | 73°     | 74°     | 75°     | 76°     | 77°     | 78°     | 79°     | 80°    | 81°    | 82°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0°    | 387.4   | 387.4   | 387.4   | 387.4   | 387.4   | 387.4   | 387.4   | 387.4   | 387.4  | 387.4  | 387.4  |
| 2.5°  | 427.7   | 425.8   | 424.1   | 422.3   | 420.4   | 418.6   | 414.9   | 414.9   | 411.2  | 409.3  | 407.6  |
| 5°    | 475.5   | 471.8   | 470.0   | 466.3   | 460.7   | 457.1   | 451.6   | 444.2   | 438.8  | 436.9  | 433.2  |
| 7.5°  | 536.1   | 526.8   | 523.2   | 517.7   | 510.3   | 499.3   | 492.0   | 486.5   | 477.3  | 471.8  | 460.7  |
| 10°   | 604.0   | 594.7   | 583.8   | 572.8   | 561.7   | 548.9   | 539.7   | 532.4   | 517.7  | 510.3  | 497.5  |
| 12.5° | 690.3   | 673.8   | 660.8   | 646.2   | 631.5   | 616.8   | 605.8   | 583.8   | 570.9  | 554.4  | 543.3  |
| 15°   | 778.3   | 763.6   | 749.0   | 730.6   | 708.6   | 684.7   | 673.8   | 653.5   | 637.0  | 611.3  | 596.6  |
| 17.5° | 884.8   | 857.3   | 835.3   | 813.2   | 793.1   | 771.0   | 749.0   | 717.8   | 693.9  | 671.9  | 642.6  |
| 20°   | 989.5   | 956.5   | 932.5   | 903.2   | 873.9   | 839.0   | 813.2   | 791.2   | 758.2  | 728.8  | 697.6  |
| 22.5° | 1101.4  | 1068.4  | 1029.8  | 1000.5  | 960.2   | 932.5   | 897.7   | 860.9   | 827.9  | 789.4  | 750.8  |
| 25°   | 1237.3  | 1202.4  | 1158.4  | 1119.8  | 1073.9  | 1035.4  | 993.2   | 950.9   | 910.5  | 866.5  | 816.9  |
| 27.5° | 1404.4  | 1367.6  | 1319.9  | 1274.0  | 1213.4  | 1165.7  | 1125.4  | 1068.4  | 1017.0 | 961.9  | 905.0  |
| 30°   | 1615.4  | 1575.1  | 1516.3  | 1450.2  | 1389.7  | 1336.4  | 1279.5  | 1204.3  | 1147.3 | 1081.2 | 1007.9 |
| 32.5° | 1890.9  | 1843.1  | 1764.1  | 1701.7  | 1626.5  | 1556.7  | 1477.7  | 1402.5  | 1321.8 | 1235.5 | 1151.0 |
| 35°   | 2237.8  | 2193.8  | 2101.9  | 2010.2  | 1927.6  | 1845.0  | 1745.9  | 1659.6  | 1545.7 | 1441.1 | 1332.7 |
| 37.5° | 2597.7  | 2518.6  | 2434.2  | 2335.1  | 2232.2  | 2133.1  | 2011.9  | 1892.7  | 1762.4 | 1648.5 | 1512.6 |
| 40°   | 3008.8  | 2913.4  | 2843.6  | 2737.1  | 2592.1  | 2450.7  | 2338.8  | 2190.1  | 2026.7 | 1874.3 | 1714.6 |
| 42.5° | 3572.4  | 3466.0  | 3341.1  | 3179.6  | 3074.9  | 2909.7  | 2764.6  | 2588.4  | 2373.6 | 2202.9 | 2010.2 |
| 45°   | 4224.1  | 4079.1  | 3957.9  | 3801.8  | 3675.2  | 3469.6  | 3300.7  | 3065.7  | 2850.9 | 2627.0 | 2392.0 |
| 47.5° | 4967.6  | 4787.6  | 4611.4  | 4457.2  | 4255.3  | 4053.3  | 3838.6  | 3588.9  | 3313.6 | 3067.5 | 2788.5 |
| 50°   | 5821.1  | 5566.0  | 5321.8  | 5123.6  | 4846.4  | 4613.3  | 4380.1  | 4099.3  | 3794.5 | 3511.8 | 3194.2 |
| 52.5° | 6770.3  | 6474.7  | 6151.7  | 5846.9  | 5525.6  | 5226.4  | 4945.5  | 4622.4  | 4282.9 | 3937.7 | 3583.5 |
| 55°   | 7915.8  | 7693.6  | 7313.7  | 6926.3  | 6496.7  | 6096.6  | 5734.9  | 5334.8  | 4921.6 | 4468.2 | 4095.6 |
| 57.5° | 9709.4  | 9601.0  | 9283.4  | 8896.1  | 8336.2  | 7849.7  | 7236.6  | 6746.4  | 6148.0 | 5523.8 | 5042.8 |
| 60°   | 12139.9 | 12005.8 | 11827.8 | 11513.9 | 11069.6 | 10408.8 | 9733.2  | 8971.4  | 8060.8 | 7196.2 | 6375.6 |
| 62.5° | 13436.0 | 13388.1 | 13243.2 | 13026.5 | 12611.7 | 12090.3 | 11409.3 | 10572.1 | 9544.2 | 8494.0 | 7447.7 |
| 63°   | 13474.4 | 13413.9 | 13289.0 | 13068.8 | 12703.4 | 12198.7 | 11530.4 | 10717.1 | 9711.2 | 8641.0 | 7572.5 |
| 65°   | 12953.1 | 12929.3 | 12802.5 | 12562.1 | 12312.5 | 11926.9 | 11409.3 | 10709.8 | 9865.3 | 8853.9 | 7791.0 |
| 67.5° | 11488.2 | 11416.5 | 11222.0 | 11148.5 | 10974.2 | 10706.1 | 10311.5 | 9830.4  | 9226.6 | 8431.6 | 7513.7 |
| 70°   | 9716.6  | 9610.2  | 9366.0  | 9235.7  | 9022.8  | 8853.9  | 8613.4  | 8270.1  | 7897.4 | 7343.0 | 6658.3 |
| 72.5° | 7838.7  | 7618.4  | 7394.4  | 7054.9  | 6757.4  | 6456.3  | 6190.1  | 5947.9  | 5538.4 | 5314.5 | 4795.0 |
| 75°   | 5090.5  | 4690.3  | 4306.7  | 3792.7  | 3330.1  | 2920.7  | 2522.3  | 2320.4  | 1900.0 | 1729.2 | 1485.1 |
| 77.5° | 2415.8  | 2191.9  | 1890.9  | 1657.7  | 1360.3  | 1110.7  | 906.9   | 681.0   | 534.2  | 418.6  | 319.4  |
| 80°   | 1949.5  | 1760.5  | 1578.7  | 1367.6  | 1143.6  | 912.3   | 699.4   | 523.2   | 370.8  | 257.0  | 181.7  |
| 82.5° | 1738.5  | 1532.8  | 1308.9  | 1163.8  | 1011.5  | 827.9   | 679.2   | 554.4   | 409.3  | 299.2  | 203.8  |
| 85°   | 675.6   | 569.1   | 438.8   | 358.0   | 279.0   | 229.4   | 207.5   | 143.1   | 112.0  | 88.1   | 67.9   |
| 87.5° | 58.7    | 47.7    | 38.6    | 25.8    | 27.5    | 14.7    | 16.5    | 11.0    | 9.1    | 9.1    | 7.4    |
| 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: P164970

CATALOG NUMBER: VTS-F08-LED-E1-SL2-HSS-8030

**CANDELA DISTRIBUTION (continued):**

|       | 83°    | 84°    | 85°    | 86°    | 87°    | 88°    | 89°    | 90°    | 95°   | 105°  | 115°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0°    | 387.4  | 387.4  | 387.4  | 387.4  | 387.4  | 387.4  | 387.4  | 387.4  | 387.4 | 387.4 | 387.4 |
| 2.5°  | 405.7  | 403.9  | 402.0  | 398.3  | 398.3  | 394.7  | 392.8  | 391.1  | 381.8 | 361.6 | 345.1 |
| 5°    | 425.8  | 422.3  | 418.6  | 413.0  | 409.3  | 403.9  | 400.2  | 394.7  | 374.5 | 336.0 | 302.9 |
| 7.5°  | 455.3  | 447.9  | 442.5  | 431.4  | 425.8  | 418.6  | 413.0  | 403.9  | 370.8 | 312.0 | 266.2 |
| 10°   | 490.2  | 477.3  | 468.1  | 455.3  | 444.2  | 435.1  | 425.8  | 413.0  | 367.1 | 286.4 | 233.1 |
| 12.5° | 532.4  | 517.7  | 499.3  | 484.6  | 470.0  | 457.1  | 444.2  | 427.7  | 361.6 | 264.3 | 207.5 |
| 15°   | 574.6  | 552.6  | 539.7  | 519.5  | 499.3  | 480.9  | 462.6  | 447.9  | 363.5 | 240.5 | 185.4 |
| 17.5° | 622.3  | 600.3  | 572.8  | 550.7  | 528.7  | 504.9  | 482.8  | 453.4  | 354.3 | 222.2 | 168.9 |
| 20°   | 668.2  | 637.0  | 611.3  | 583.8  | 552.6  | 523.2  | 495.6  | 470.0  | 346.9 | 203.8 | 154.2 |
| 22.5° | 717.8  | 681.0  | 648.0  | 613.1  | 574.6  | 541.6  | 508.4  | 475.5  | 334.1 | 187.3 | 141.4 |
| 25°   | 778.3  | 736.1  | 688.4  | 646.2  | 605.8  | 565.4  | 523.2  | 482.8  | 321.3 | 172.6 | 132.2 |
| 27.5° | 851.8  | 796.7  | 749.0  | 695.7  | 638.9  | 587.5  | 541.6  | 497.5  | 308.5 | 161.5 | 123.0 |
| 30°   | 945.4  | 881.1  | 813.2  | 745.3  | 684.7  | 625.9  | 561.7  | 506.7  | 295.5 | 150.5 | 113.8 |
| 32.5° | 1070.3 | 989.5  | 906.9  | 827.9  | 747.1  | 671.9  | 604.0  | 532.4  | 288.2 | 141.4 | 104.7 |
| 35°   | 1235.5 | 1130.8 | 1029.8 | 930.7  | 833.4  | 741.7  | 653.5  | 572.8  | 288.2 | 130.3 | 93.6  |
| 37.5° | 1391.5 | 1270.4 | 1141.9 | 1018.8 | 903.2  | 796.7  | 692.1  | 594.7  | 273.6 | 121.2 | 84.5  |
| 40°   | 1560.4 | 1415.3 | 1264.8 | 1119.8 | 980.3  | 848.1  | 728.8  | 616.8  | 260.6 | 110.1 | 75.2  |
| 42.5° | 1819.2 | 1635.7 | 1439.3 | 1270.4 | 1103.3 | 939.9  | 791.2  | 659.1  | 244.1 | 99.1  | 66.1  |
| 45°   | 2158.9 | 1925.7 | 1694.5 | 1488.8 | 1275.9 | 1075.8 | 899.5  | 736.1  | 240.5 | 90.0  | 56.9  |
| 47.5° | 2522.3 | 2246.9 | 1975.3 | 1712.7 | 1463.1 | 1229.9 | 1018.8 | 822.4  | 240.5 | 80.8  | 49.6  |
| 50°   | 2883.9 | 2538.9 | 2248.8 | 1944.1 | 1663.2 | 1387.8 | 1136.3 | 912.3  | 242.4 | 73.5  | 40.4  |
| 52.5° | 3210.8 | 2841.8 | 2516.8 | 2164.3 | 1854.1 | 1534.7 | 1261.1 | 1000.5 | 238.7 | 64.2  | 33.0  |
| 55°   | 3664.2 | 3231.0 | 2854.6 | 2465.4 | 2101.9 | 1742.2 | 1431.9 | 1132.6 | 240.5 | 56.9  | 27.5  |
| 57.5° | 4499.5 | 3990.9 | 3537.5 | 3027.2 | 2608.6 | 2144.2 | 1767.8 | 1404.4 | 262.5 | 47.7  | 20.2  |
| 60°   | 5698.2 | 5037.3 | 4400.4 | 3778.0 | 3245.7 | 2693.1 | 2204.7 | 1777.1 | 308.5 | 38.6  | 14.7  |
| 62.5° | 6504.1 | 5639.4 | 4879.5 | 4192.9 | 3574.2 | 2996.0 | 2463.5 | 1977.1 | 339.6 | 31.2  | 9.1   |
| 63°   | 6586.7 | 5692.7 | 4929.0 | 4220.4 | 3588.9 | 3010.7 | 2474.6 | 1991.8 | 341.5 | 29.3  | 9.1   |
| 65°   | 6742.7 | 5784.5 | 4956.5 | 4225.9 | 3574.2 | 2990.5 | 2467.2 | 1990.0 | 345.1 | 23.9  | 7.4   |
| 67.5° | 6564.7 | 5643.1 | 4796.9 | 4068.0 | 3445.7 | 2871.1 | 2375.5 | 1916.5 | 343.2 | 16.5  | 5.5   |
| 70°   | 5870.7 | 5107.1 | 4363.6 | 3684.3 | 3118.9 | 2599.4 | 2162.6 | 1747.6 | 315.7 | 11.0  | 3.7   |
| 72.5° | 4310.4 | 3790.8 | 3214.5 | 2724.3 | 2349.7 | 1951.4 | 1665.0 | 1312.5 | 244.1 | 7.4   | 1.8   |
| 75°   | 1277.6 | 1163.8 | 978.4  | 862.8  | 761.8  | 629.6  | 560.0  | 436.9  | 124.9 | 3.7   | 0.0   |
| 77.5° | 255.2  | 231.3  | 207.5  | 189.1  | 178.0  | 152.4  | 145.0  | 119.3  | 51.4  | 1.8   | 0.0   |
| 80°   | 134.0  | 110.1  | 93.6   | 82.6   | 71.6   | 58.7   | 49.6   | 40.4   | 9.1   | 0.0   | 0.0   |
| 82.5° | 128.5  | 86.3   | 62.4   | 51.4   | 44.0   | 34.9   | 27.5   | 20.2   | 5.5   | 0.0   | 0.0   |
| 85°   | 47.7   | 36.7   | 27.5   | 22.1   | 18.4   | 16.5   | 12.8   | 11.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 7.4    | 5.5    | 5.5    | 3.7    | 3.7    | 1.8    | 1.8    | 1.8    | 0.0   | 0.0   | 0.0   |
| 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: P164970

CATALOG NUMBER: VTS-F08-LED-E1-SL2-HSS-8030

**CANDELA DISTRIBUTION (continued):**

|       | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 387.4 | 387.4 | 387.4 | 387.4 | 387.4 | 387.4 | 387.4 |
| 2.5°  | 328.6 | 313.9 | 306.6 | 297.4 | 297.4 | 295.5 | 299.2 |
| 5°    | 273.6 | 253.4 | 238.7 | 227.6 | 229.4 | 224.0 | 225.9 |
| 7.5°  | 231.3 | 211.1 | 198.2 | 191.0 | 189.1 | 187.3 | 187.3 |
| 10°   | 200.1 | 181.7 | 170.7 | 165.2 | 163.4 | 163.4 | 163.4 |
| 12.5° | 178.0 | 159.7 | 150.5 | 146.8 | 146.8 | 145.0 | 145.0 |
| 15°   | 159.7 | 145.0 | 135.9 | 132.2 | 132.2 | 130.3 | 132.2 |
| 17.5° | 145.0 | 130.3 | 123.0 | 119.3 | 119.3 | 117.5 | 117.5 |
| 20°   | 132.2 | 119.3 | 112.0 | 106.5 | 106.5 | 104.7 | 106.5 |
| 22.5° | 121.2 | 108.4 | 99.1  | 95.4  | 93.6  | 91.7  | 93.6  |
| 25°   | 110.1 | 97.3  | 88.1  | 82.6  | 80.8  | 80.8  | 78.9  |
| 27.5° | 101.0 | 88.1  | 77.1  | 71.6  | 69.8  | 69.8  | 67.9  |
| 30°   | 91.7  | 77.1  | 66.1  | 60.5  | 58.7  | 58.7  | 58.7  |
| 32.5° | 82.6  | 66.1  | 56.9  | 51.4  | 49.6  | 49.6  | 49.6  |
| 35°   | 73.5  | 56.9  | 47.7  | 42.3  | 40.4  | 40.4  | 40.4  |
| 37.5° | 62.4  | 47.7  | 36.7  | 33.0  | 31.2  | 29.3  | 29.3  |
| 40°   | 53.3  | 36.7  | 27.5  | 23.9  | 20.2  | 20.2  | 20.2  |
| 42.5° | 44.0  | 29.3  | 20.2  | 14.7  | 12.8  | 11.0  | 12.8  |
| 45°   | 36.7  | 22.1  | 12.8  | 7.4   | 5.5   | 5.5   | 5.5   |
| 47.5° | 29.3  | 14.7  | 5.5   | 1.8   | 1.8   | 1.8   | 1.8   |
| 50°   | 22.1  | 9.1   | 1.8   | 0.0   | 0.0   | 1.8   | 1.8   |
| 52.5° | 16.5  | 5.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 55°   | 9.1   | 1.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 57.5° | 5.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°   | 3.7   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5° | 1.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 63°   | 1.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°   | 1.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)