

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P642673

Luminaire Tested: GWS-SA6D-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642673  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-735-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31094.7 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

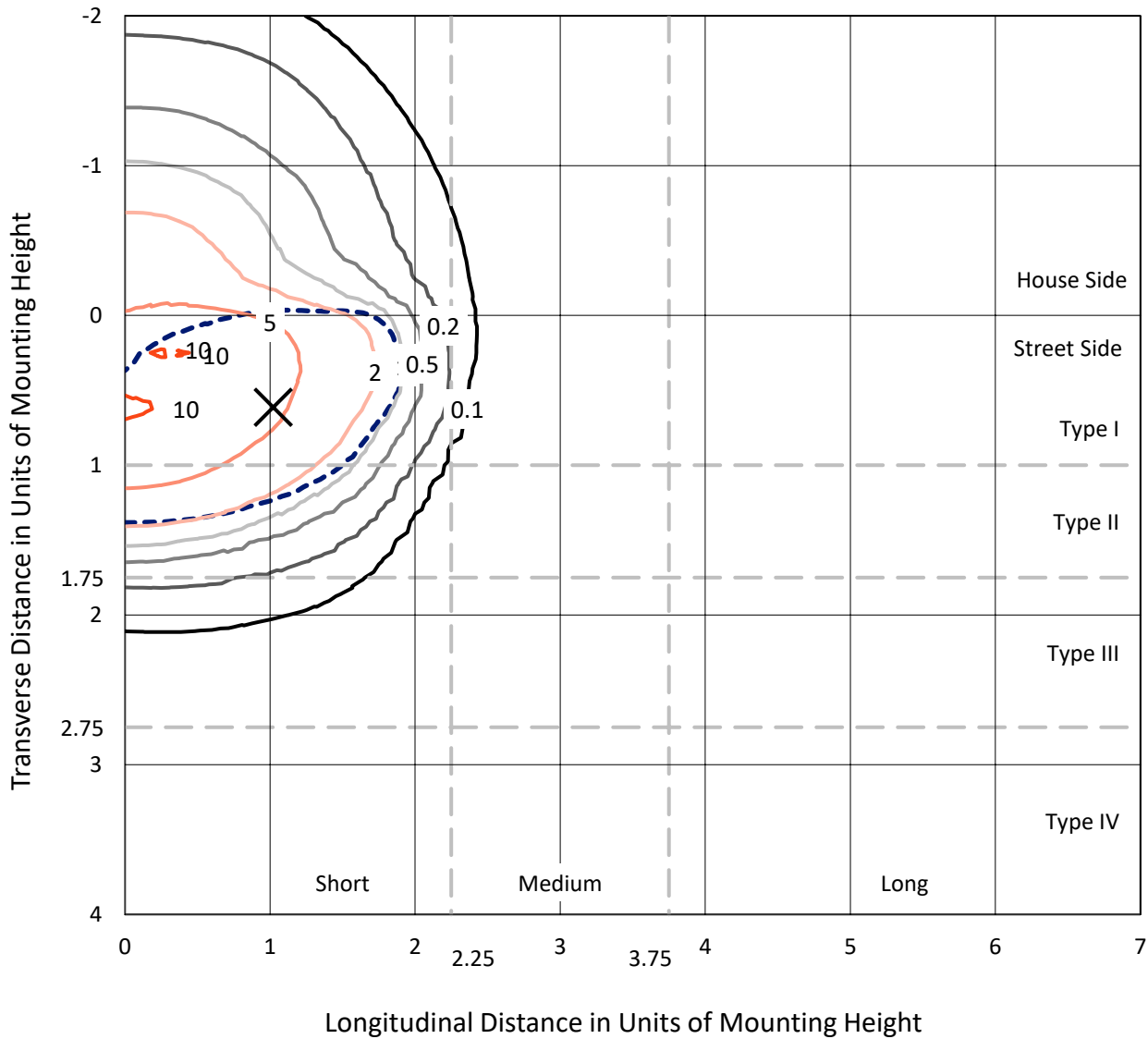


REPORT NUMBER: P642673

CATALOG NUMBER: GWS-SA6D-735-U-T2R-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

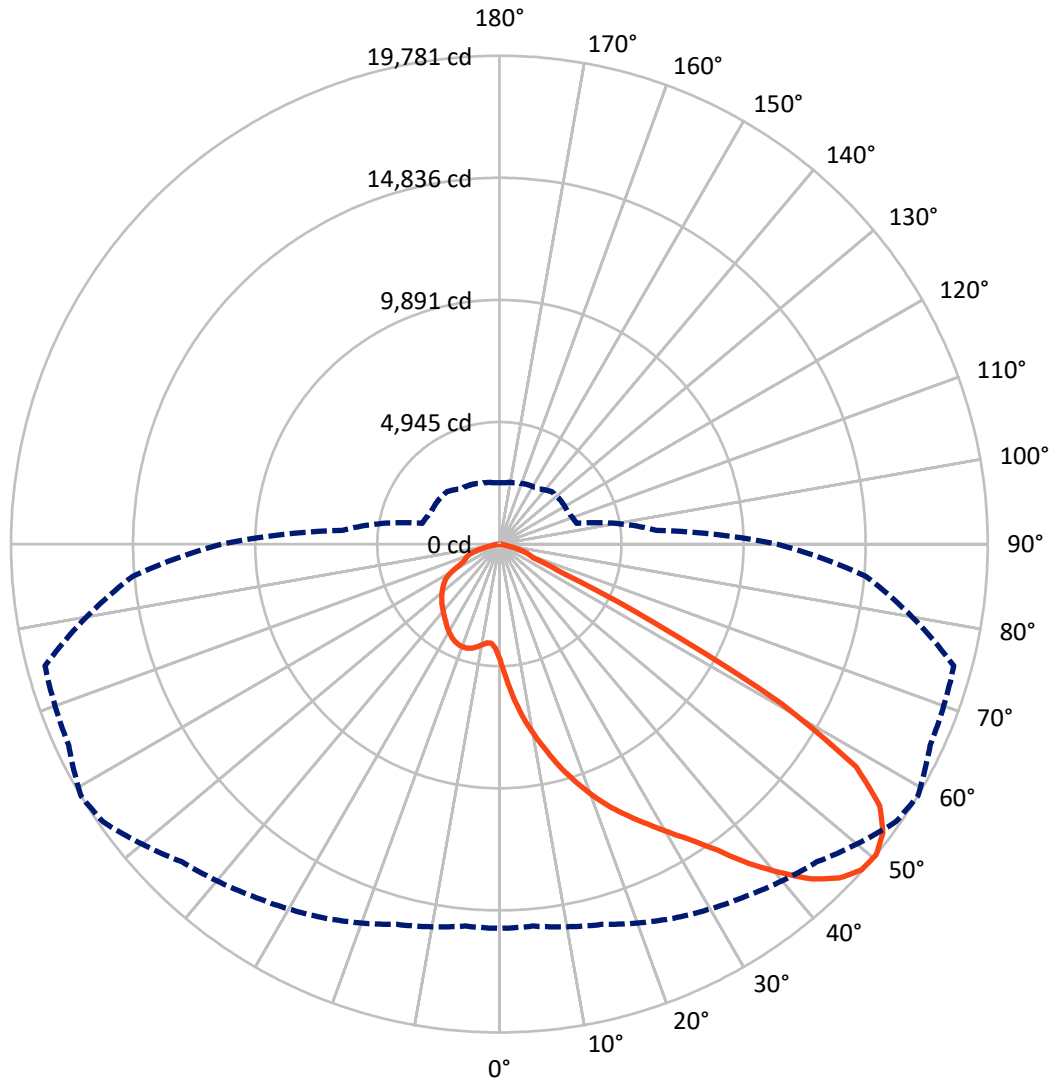
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P642673  
CATALOG NUMBER: GWS-SA6D-735-U-T2R-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P642673

CATALOG NUMBER: GWS-SA6D-735-U-T2R-W-GRSWH

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7152.4   | 0.0    | 7152.4  |
|                    | % Fixture | 23.0     | 0.0    | 23.0    |
| <b>Street Side</b> | Lumens    | 23942.3  | 0.0    | 23942.3 |
|                    | % Fixture | 77.0     | 0.0    | 77.0    |
| <b>Total</b>       | Lumens    | 31094.7  | 0.0    | 31094.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 528.5   | 1.7       |
| 10°-20°   | 1918.6  | 6.2       |
| 20°-30°   | 3632.9  | 11.7      |
| 30°-40°   | 6024.6  | 19.4      |
| 40°-50°   | 8229.9  | 26.5      |
| 50°-60°   | 7470.6  | 24.0      |
| 60°-70°   | 2487.8  | 8.0       |
| 70°-80°   | 725.6   | 2.3       |
| 80°-90°   | 76.2    | 0.2       |
| 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°    | 31094.7 | 100.0     |
| 0°-180°   | 31094.7 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P642673

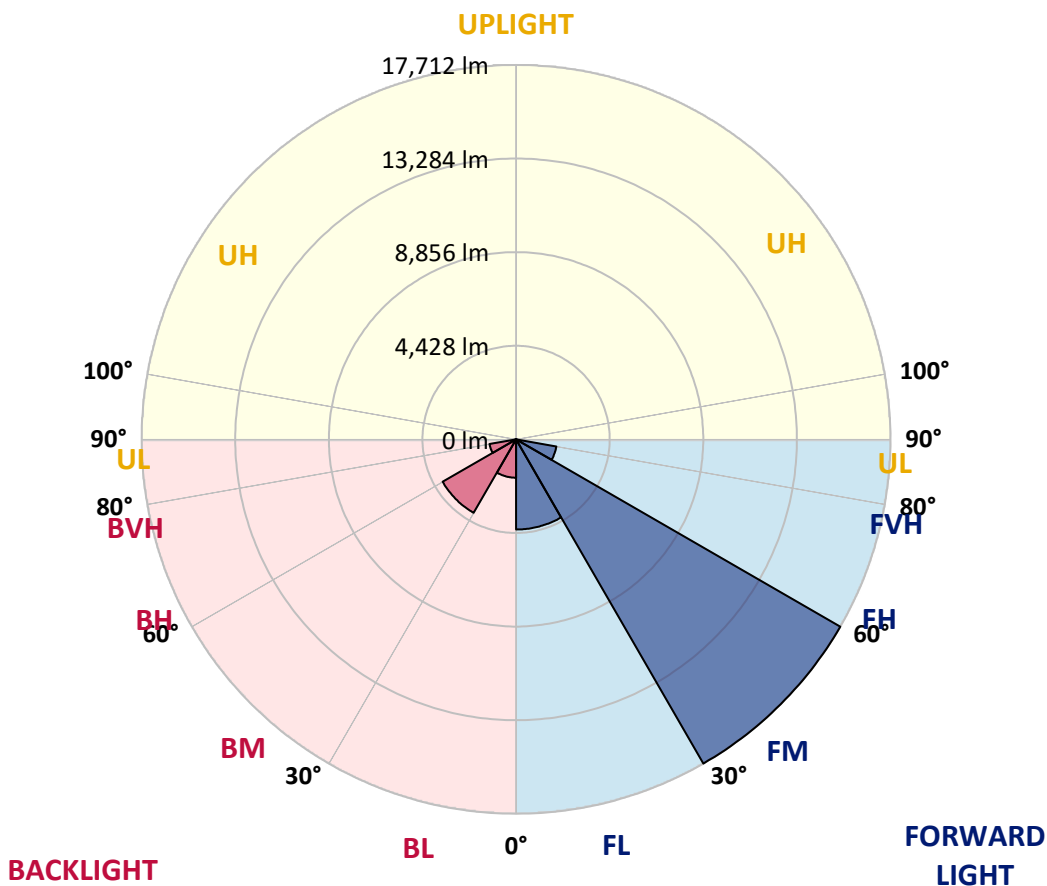
CATALOG NUMBER: GWS-SA6D-735-U-T2R-W-GRSWH

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4263.8  | 13.7      |                         |      |         |
| FM (30°-60°)   | 17711.9 | 57.0      |                         |      |         |
| FH (60°-80°)   | 1936.8  | 6.2       |                         |      | G2/5000 |
| FVH (80°-90°)  | 29.8    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1816.2  | 5.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 4013.2  | 12.9      | B3/5000                 |      |         |
| BH (60°-80°)   | 1276.6  | 4.1       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 46.4    | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





REPORT NUMBER: P642673

CATALOG NUMBER: GWS-SA6D-735-U-T2R-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4711.1  | 4711.1  | 4711.1  | 4711.1  | 4711.1  | 4711.1  | 4711.1  | 4711.1  | 4711.1  | 4711.1  | 4711.1  |
| 2.5°  | 6104.1  | 6149.7  | 6078.8  | 6083.9  | 5906.6  | 5825.5  | 5597.6  | 5463.3  | 5374.7  | 5126.5  | 4901.0  |
| 5°    | 7335.1  | 7281.9  | 7226.2  | 7193.2  | 7038.7  | 6820.9  | 6537.2  | 6311.8  | 6104.1  | 5617.8  | 5149.2  |
| 7.5°  | 8089.9  | 8062.0  | 8024.0  | 8003.7  | 7851.8  | 7623.8  | 7340.1  | 7147.7  | 6846.2  | 6187.7  | 5450.7  |
| 10°   | 8730.7  | 8697.7  | 8674.9  | 8690.1  | 8566.0  | 8419.1  | 8110.1  | 7889.8  | 7550.4  | 6790.5  | 5815.4  |
| 12.5° | 9227.1  | 9244.8  | 9252.4  | 9333.5  | 9280.3  | 9191.6  | 8872.5  | 8639.5  | 8262.1  | 7426.3  | 6243.4  |
| 15°   | 9619.7  | 9614.6  | 9703.3  | 9857.8  | 9943.9  | 9888.2  | 9632.4  | 9437.3  | 8976.4  | 8051.9  | 6704.4  |
| 17.5° | 9710.9  | 9715.9  | 9855.2  | 10126.3 | 10407.4 | 10544.2 | 10399.8 | 10166.8 | 9710.9  | 8669.9  | 7183.1  |
| 20°   | 9784.3  | 9794.5  | 9938.8  | 10247.8 | 10658.2 | 11040.6 | 11063.4 | 10896.2 | 10503.7 | 9338.6  | 7669.4  |
| 22.5° | 10247.8 | 10270.6 | 10308.6 | 10503.7 | 10873.4 | 11357.2 | 11623.2 | 11587.7 | 11258.4 | 10040.1 | 8193.7  |
| 25°   | 11466.1 | 11397.7 | 11212.8 | 11157.1 | 11299.0 | 11691.6 | 12144.9 | 12213.3 | 12051.2 | 10812.7 | 8758.5  |
| 27.5° | 12970.6 | 12897.2 | 12623.6 | 12334.9 | 12028.4 | 12165.2 | 12649.0 | 12854.1 | 12856.7 | 11663.7 | 9325.9  |
| 30°   | 14335.8 | 14277.6 | 14054.7 | 13641.8 | 13112.5 | 12914.9 | 13272.0 | 13548.1 | 13712.8 | 12646.4 | 9971.8  |
| 32.5° | 15503.5 | 15450.3 | 15148.9 | 14812.0 | 14295.3 | 13897.6 | 14026.8 | 14292.8 | 14677.8 | 13917.9 | 10774.7 |
| 35°   | 16486.2 | 16433.0 | 16144.3 | 15804.9 | 15326.2 | 15088.1 | 15042.5 | 15224.9 | 15723.8 | 15245.1 | 11696.6 |
| 37.5° | 17284.0 | 17230.9 | 16929.4 | 16610.3 | 16245.6 | 16260.8 | 16329.2 | 16417.8 | 16704.0 | 16666.0 | 12681.9 |
| 40°   | 17800.7 | 17745.0 | 17529.7 | 17301.8 | 17071.3 | 17253.6 | 17593.0 | 17486.7 | 17638.6 | 17813.4 | 13588.6 |
| 42.5° | 18031.2 | 17960.3 | 17836.2 | 17785.5 | 17714.6 | 17998.3 | 18651.8 | 18545.4 | 18363.0 | 18578.3 | 14262.4 |
| 45°   | 17800.7 | 17740.0 | 17737.4 | 17891.9 | 18056.6 | 18421.3 | 19383.8 | 19297.6 | 18836.7 | 18948.1 | 14665.1 |
| 47.5° | 17094.1 | 17040.9 | 17185.3 | 17590.5 | 17995.8 | 18527.7 | 19710.5 | 19725.7 | 19173.5 | 19102.6 | 14926.0 |
| 50°   | 15566.8 | 15531.3 | 15949.2 | 16716.7 | 17415.8 | 18195.9 | 19606.7 | 19781.4 | 19254.6 | 19054.5 | 14893.1 |
| 52.5° | 12461.5 | 12626.2 | 13535.5 | 14817.1 | 16174.7 | 17613.3 | 19221.7 | 19449.6 | 18864.5 | 18737.9 | 14715.8 |
| 55°   | 8530.6  | 8606.6  | 9515.8  | 11387.6 | 13540.5 | 16352.0 | 18337.7 | 18689.8 | 18403.6 | 18684.7 | 14900.6 |
| 57.5° | 4417.3  | 4478.0  | 5194.8  | 6856.4  | 9184.0  | 12922.5 | 15883.4 | 17038.4 | 17474.0 | 18953.2 | 15475.6 |
| 60°   | 1813.5  | 1864.2  | 2160.5  | 2963.4  | 4632.5  | 7525.0  | 11430.7 | 13142.9 | 14166.1 | 17309.4 | 13743.1 |
| 62.5° | 1317.1  | 1342.4  | 1484.2  | 1767.9  | 2426.5  | 3687.8  | 6468.9  | 7099.5  | 7818.9  | 10848.1 | 8725.6  |
| 65°   | 1109.4  | 1137.2  | 1251.2  | 1423.5  | 1770.4  | 2261.8  | 2763.3  | 2778.5  | 3062.2  | 4419.8  | 3234.4  |
| 67.5° | 929.5   | 954.9   | 1056.2  | 1203.1  | 1431.0  | 1605.8  | 1484.2  | 1486.8  | 1481.7  | 1603.3  | 1550.1  |
| 70°   | 724.4   | 744.7   | 846.0   | 1003.0  | 1122.0  | 1030.9  | 1160.0  | 1284.1  | 1231.0  | 1279.1  | 1352.5  |
| 72.5° | 529.4   | 552.2   | 640.8   | 759.8   | 729.5   | 734.5   | 939.7   | 1066.3  | 1035.9  | 1089.1  | 1157.5  |
| 75°   | 382.5   | 397.7   | 443.2   | 379.9   | 400.2   | 483.8   | 661.1   | 729.5   | 759.8   | 805.4   | 866.2   |
| 77.5° | 124.1   | 124.1   | 139.3   | 174.8   | 217.8   | 268.5   | 336.9   | 364.7   | 410.3   | 461.0   | 504.0   |
| 80°   | 63.3    | 65.9    | 78.5    | 96.2    | 121.6   | 154.5   | 197.6   | 210.2   | 233.0   | 260.9   | 278.6   |
| 82.5° | 30.4    | 32.9    | 38.0    | 48.1    | 63.3    | 81.1    | 108.9   | 121.6   | 136.8   | 154.5   | 167.2   |
| 85°   | 7.6     | 7.6     | 10.1    | 15.2    | 20.3    | 30.4    | 40.5    | 48.1    | 60.8    | 73.5    | 81.1    |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 2.5     | 7.6     | 10.1    | 12.7    | 15.2    | 20.3    |
| 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: P642673

CATALOG NUMBER: GWS-SA6D-735-U-T2R-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4711.1  | 4711.1 | 4711.1 | 4711.1 | 4711.1 | 4711.1 | 4711.1 | 4711.1 | 4711.1 | 4711.1 | 4711.1 |
| 2.5°  | 4799.7  | 4657.9 | 4475.5 | 4321.0 | 4179.2 | 4070.3 | 3976.5 | 3931.0 | 3887.9 | 3857.5 | 3867.6 |
| 5°    | 4931.4  | 4688.3 | 4348.9 | 4113.3 | 3968.9 | 3895.5 | 3844.8 | 3819.5 | 3814.4 | 3794.2 | 3786.6 |
| 7.5°  | 5123.9  | 4776.9 | 4323.5 | 4085.5 | 3989.2 | 3951.2 | 3923.4 | 3908.2 | 3915.8 | 3895.5 | 3887.9 |
| 10°   | 5362.0  | 4923.8 | 4386.9 | 4176.6 | 4093.1 | 4065.2 | 4034.8 | 4014.5 | 4004.4 | 3974.0 | 3968.9 |
| 12.5° | 5658.3  | 5106.2 | 4500.8 | 4293.1 | 4209.6 | 4161.4 | 4120.9 | 4085.5 | 4062.7 | 4024.7 | 4014.5 |
| 15°   | 5977.5  | 5308.8 | 4635.1 | 4407.1 | 4308.3 | 4237.4 | 4171.6 | 4118.4 | 4077.9 | 4027.2 | 4019.6 |
| 17.5° | 6324.5  | 5521.6 | 4746.5 | 4485.6 | 4359.0 | 4265.3 | 4169.0 | 4090.5 | 4034.8 | 3968.9 | 3961.3 |
| 20°   | 6686.7  | 5736.9 | 4830.1 | 4523.6 | 4361.5 | 4234.9 | 4105.7 | 4001.9 | 3931.0 | 3865.1 | 3860.0 |
| 22.5° | 7061.5  | 5934.4 | 4880.8 | 4513.5 | 4321.0 | 4164.0 | 4009.5 | 3893.0 | 3809.4 | 3730.9 | 3725.8 |
| 25°   | 7438.9  | 6124.4 | 4893.4 | 4473.0 | 4240.0 | 4057.6 | 3903.1 | 3766.3 | 3672.6 | 3584.0 | 3573.8 |
| 27.5° | 7821.4  | 6284.0 | 4863.0 | 4391.9 | 4131.0 | 3933.5 | 3779.0 | 3644.7 | 3548.5 | 3459.8 | 3444.7 |
| 30°   | 8229.2  | 6420.7 | 4797.2 | 4285.6 | 4004.4 | 3801.8 | 3649.8 | 3548.5 | 3457.3 | 3368.7 | 3353.5 |
| 32.5° | 8664.8  | 6539.8 | 4703.5 | 4156.4 | 3857.5 | 3670.1 | 3558.6 | 3467.4 | 3376.3 | 3297.7 | 3282.5 |
| 35°   | 9184.0  | 6618.3 | 4564.2 | 3989.2 | 3720.7 | 3573.8 | 3497.8 | 3391.5 | 3280.0 | 3193.9 | 3186.3 |
| 37.5° | 9721.0  | 6679.1 | 4397.0 | 3829.6 | 3601.7 | 3518.1 | 3454.8 | 3310.4 | 3171.1 | 3067.3 | 3054.6 |
| 40°   | 10240.2 | 6729.7 | 4189.3 | 3680.2 | 3492.8 | 3477.6 | 3391.5 | 3211.6 | 2971.0 | 2854.5 | 2844.4 |
| 42.5° | 10724.0 | 6744.9 | 3971.5 | 3520.6 | 3394.0 | 3386.4 | 3290.1 | 3011.5 | 2826.6 | 2753.2 | 2743.1 |
| 45°   | 11055.8 | 6732.3 | 3746.1 | 3371.2 | 3295.2 | 3254.7 | 3153.4 | 2867.2 | 2753.2 | 2687.3 | 2674.7 |
| 47.5° | 11301.5 | 6666.4 | 3492.8 | 3214.2 | 3183.8 | 3128.0 | 2910.2 | 2776.0 | 2669.6 | 2603.8 | 2591.1 |
| 50°   | 11258.4 | 6392.9 | 3237.0 | 3062.2 | 3049.5 | 3001.4 | 2732.9 | 2662.0 | 2568.3 | 2497.4 | 2487.2 |
| 52.5° | 11035.5 | 5873.6 | 2976.1 | 2895.0 | 2920.4 | 2826.6 | 2606.3 | 2525.2 | 2444.2 | 2363.1 | 2345.4 |
| 55°   | 11091.3 | 5498.8 | 2778.5 | 2732.9 | 2778.5 | 2565.8 | 2464.4 | 2378.3 | 2302.3 | 2223.8 | 2208.6 |
| 57.5° | 11334.4 | 5129.0 | 2568.3 | 2558.2 | 2606.3 | 2365.7 | 2282.1 | 2173.2 | 2064.3 | 2000.9 | 2000.9 |
| 60°   | 9518.4  | 3738.5 | 2198.5 | 2223.8 | 2332.7 | 2203.6 | 2130.1 | 2018.7 | 1899.6 | 1843.9 | 1843.9 |
| 62.5° | 5628.0  | 2345.4 | 1823.6 | 1795.8 | 1864.2 | 1945.2 | 1985.7 | 1894.6 | 1752.7 | 1679.3 | 1681.8 |
| 65°   | 2479.6  | 1707.1 | 1608.3 | 1585.6 | 1565.3 | 1621.0 | 1732.5 | 1740.1 | 1590.6 | 1504.5 | 1507.0 |
| 67.5° | 1527.3  | 1545.0 | 1504.5 | 1486.8 | 1469.0 | 1458.9 | 1448.8 | 1453.8 | 1413.3 | 1334.8 | 1332.3 |
| 70°   | 1377.9  | 1426.0 | 1398.1 | 1382.9 | 1360.1 | 1342.4 | 1281.6 | 1182.8 | 1114.4 | 1094.2 | 1117.0 |
| 72.5° | 1185.4  | 1251.2 | 1236.0 | 1228.4 | 1200.6 | 1157.5 | 1076.5 | 980.2  | 899.2  | 848.5  | 858.6  |
| 75°   | 894.1   | 947.3  | 954.9  | 957.4  | 927.0  | 886.5  | 802.9  | 721.9  | 650.9  | 597.7  | 610.4  |
| 77.5° | 514.2   | 544.6  | 552.2  | 559.8  | 537.0  | 521.8  | 466.0  | 407.8  | 369.8  | 314.1  | 329.3  |
| 80°   | 286.2   | 298.9  | 298.9  | 301.4  | 288.7  | 271.0  | 233.0  | 200.1  | 182.4  | 157.0  | 159.6  |
| 82.5° | 172.2   | 177.3  | 179.8  | 182.4  | 174.8  | 157.0  | 129.2  | 106.4  | 96.2   | 83.6   | 81.1   |
| 85°   | 83.6    | 88.6   | 88.6   | 91.2   | 78.5   | 68.4   | 53.2   | 40.5   | 35.5   | 25.3   | 27.9   |
| 87.5° | 20.3    | 22.8   | 22.8   | 20.3   | 17.7   | 12.7   | 7.6    | 2.5    | 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    |

(END OF REPORT)