

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: P643152

Luminaire Tested: GWS-SA6E-735-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643152  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-735-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

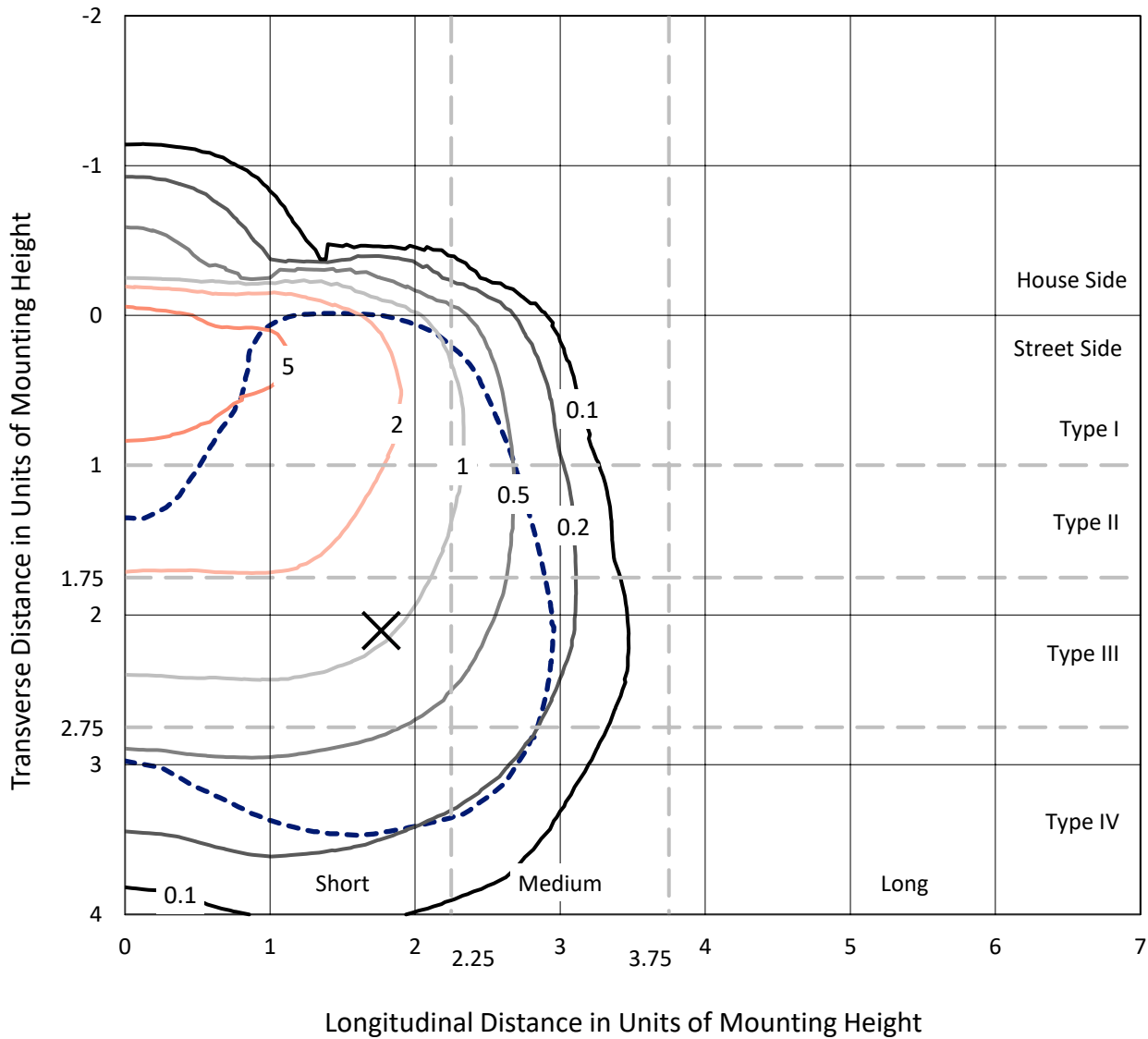
Lumens per Lamp: N/A  
Luminaire Lumens: 34787.2 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

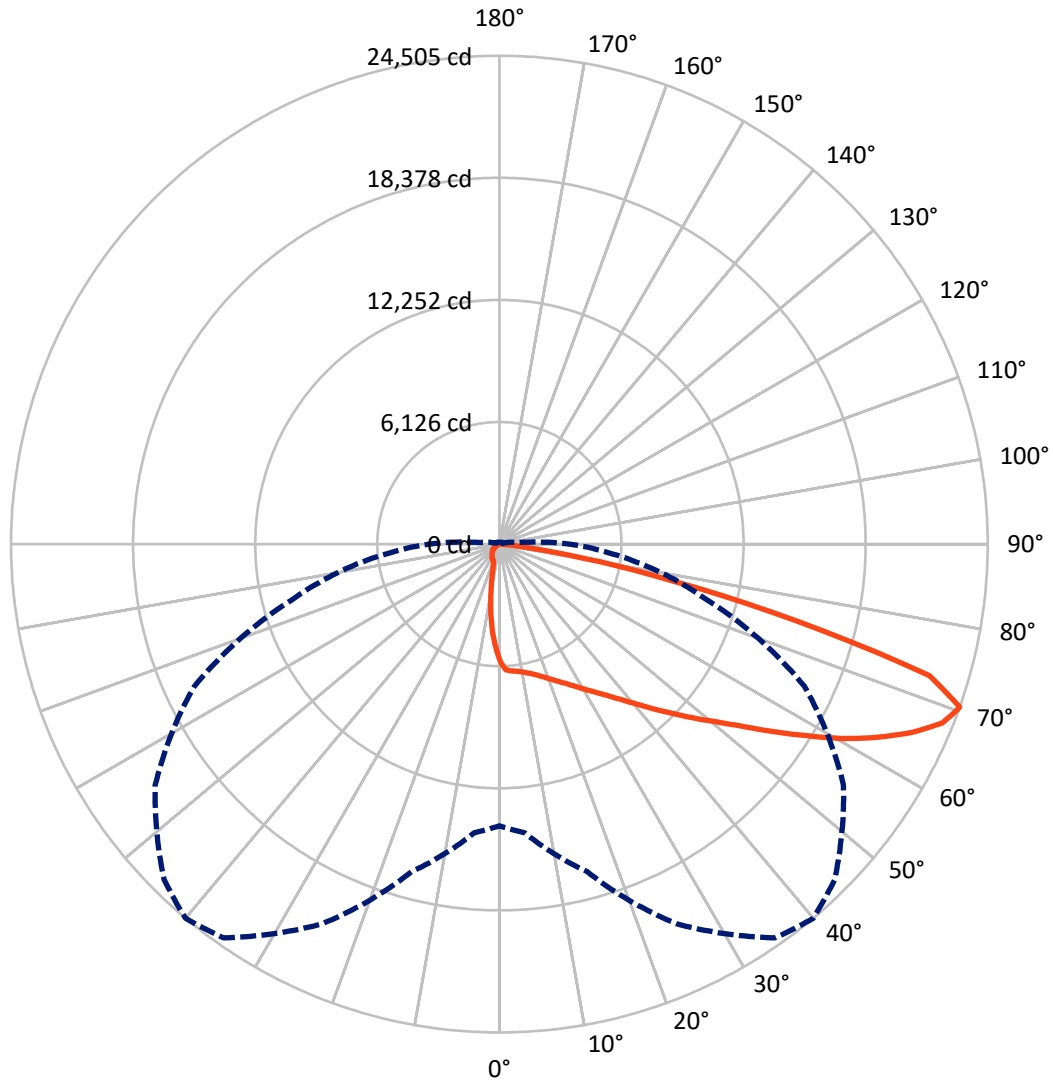
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2844.7   | 0.0    | 2844.7  |
|                    | % Fixture | 8.2      | 0.0    | 8.2     |
| <b>Street Side</b> | Lumens    | 31942.5  | 0.0    | 31942.5 |
|                    | % Fixture | 91.8     | 0.0    | 91.8    |
| <b>Total</b>       | Lumens    | 34787.2  | 0.0    | 34787.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 498.9   | 1.4       |
| 10°-20°   | 1265.4  | 3.6       |
| 20°-30°   | 2117.8  | 6.1       |
| 30°-40°   | 3326.3  | 9.6       |
| 40°-50°   | 5261.4  | 15.1      |
| 50°-60°   | 7675.1  | 22.1      |
| 60°-70°   | 9514.3  | 27.4      |
| 70°-80°   | 4813.7  | 13.8      |
| 80°-90°   | 314.3   | 0.9       |
| 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°    | 34787.2 | 100.0     |
| 0°-180°   | 34787.2 | 100.0     |

**Coefficient of Utilization**



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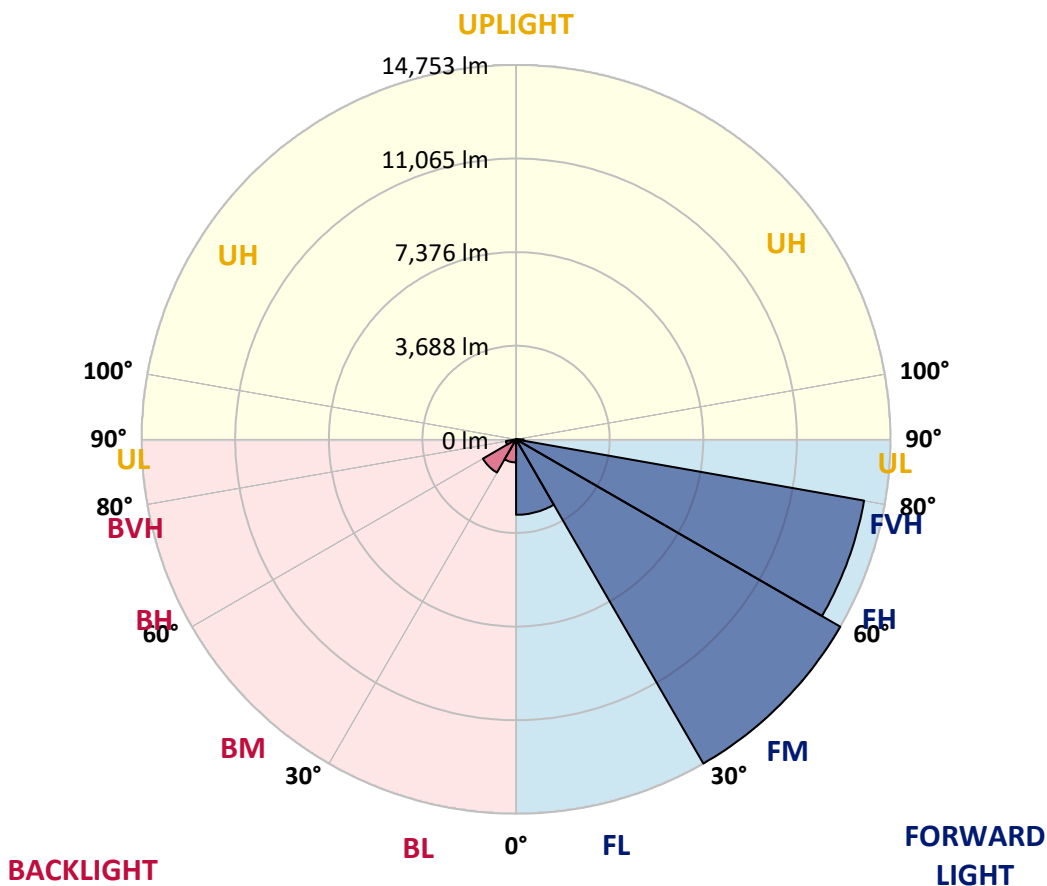
CATALOG NUMBER: GWS-SA6E-735-U-SL4-W-HSS

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 2973.7  | 8.5       |                         |      |        |
| FM (30°-60°)   | 14752.9 | 42.4      |                         |      |        |
| FH (60°-80°)   | 13922.4 | 40.0      |                         |      | G5     |
| FVH (80°-90°)  | 293.5   | 0.8       |                         |      | G3/500 |
| BL (0°-30°)    | 908.4   | 2.6       | B2/1000                 |      |        |
| BM (30°-60°)   | 1509.9  | 4.3       | B2/2500                 |      |        |
| BH (60°-80°)   | 405.6   | 1.2       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 20.7    | 0.1       |                         |      | G1/100 |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 40°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5903.0  | 5903.0  | 5903.0  | 5903.0  | 5903.0  | 5903.0  | 5903.0  | 5903.0  | 5903.0  | 5903.0  | 5903.0  |
| 2.5°  | 6346.1  | 6368.2  | 6365.1  | 6374.6  | 6352.4  | 6317.6  | 6311.3  | 6263.8  | 6178.3  | 6070.7  | 5950.4  |
| 5°    | 6475.9  | 6501.2  | 6482.2  | 6472.7  | 6431.5  | 6393.6  | 6384.1  | 6333.4  | 6235.3  | 6089.7  | 5880.8  |
| 7.5°  | 6586.6  | 6593.0  | 6580.3  | 6558.2  | 6498.0  | 6447.4  | 6412.6  | 6342.9  | 6225.8  | 6080.2  | 5839.7  |
| 10°   | 6605.6  | 6602.5  | 6608.8  | 6612.0  | 6574.0  | 6529.7  | 6501.2  | 6406.2  | 6257.5  | 6102.4  | 5842.8  |
| 12.5° | 6583.5  | 6583.5  | 6624.6  | 6672.1  | 6672.1  | 6649.9  | 6621.5  | 6536.0  | 6361.9  | 6178.3  | 5906.1  |
| 15°   | 6612.0  | 6621.5  | 6700.6  | 6789.2  | 6817.7  | 6795.5  | 6782.9  | 6694.3  | 6513.8  | 6311.3  | 6020.1  |
| 17.5° | 6713.2  | 6722.7  | 6849.3  | 6982.3  | 7017.1  | 6991.8  | 6966.5  | 6877.8  | 6684.8  | 6463.2  | 6149.9  |
| 20°   | 6862.0  | 6887.3  | 7048.7  | 7219.7  | 7251.3  | 7219.7  | 7169.0  | 7045.6  | 6852.5  | 6627.8  | 6273.3  |
| 22.5° | 7134.2  | 7150.0  | 7324.1  | 7504.5  | 7520.4  | 7469.7  | 7393.7  | 7222.8  | 7020.3  | 6801.9  | 6412.6  |
| 25°   | 7495.0  | 7517.2  | 7691.3  | 7865.4  | 7824.2  | 7748.2  | 7643.8  | 7450.7  | 7219.7  | 7007.6  | 6589.8  |
| 27.5° | 7925.5  | 7950.8  | 8121.7  | 8273.7  | 8166.0  | 8077.4  | 7960.3  | 7719.8  | 7485.5  | 7292.5  | 6817.7  |
| 30°   | 8390.8  | 8412.9  | 8564.8  | 8700.9  | 8558.5  | 8454.1  | 8314.8  | 8067.9  | 7830.5  | 7684.9  | 7140.5  |
| 32.5° | 8840.2  | 8837.0  | 8982.6  | 9093.4  | 8947.8  | 8865.5  | 8738.9  | 8488.9  | 8299.0  | 8235.7  | 7621.6  |
| 35°   | 9258.0  | 9258.0  | 9378.3  | 9489.1  | 9384.6  | 9340.3  | 9223.2  | 9023.8  | 8916.2  | 8992.1  | 8264.2  |
| 37.5° | 9679.0  | 9656.8  | 9770.8  | 9894.2  | 9884.7  | 9887.9  | 9821.4  | 9726.5  | 9732.8  | 10001.8 | 9147.2  |
| 40°   | 10027.1 | 10017.6 | 10150.6 | 10312.0 | 10438.6 | 10539.9 | 10498.7 | 10533.6 | 10733.0 | 11236.2 | 10277.2 |
| 42.5° | 10305.7 | 10327.8 | 10498.7 | 10755.1 | 11074.8 | 11280.5 | 11309.0 | 11451.4 | 11964.2 | 12742.8 | 11552.7 |
| 45°   | 10625.3 | 10628.5 | 10865.9 | 11258.4 | 11768.0 | 12094.0 | 12207.9 | 12575.1 | 13303.0 | 14306.4 | 12951.7 |
| 47.5° | 11017.8 | 10979.8 | 11245.7 | 11796.4 | 12533.9 | 13015.0 | 13217.6 | 13676.5 | 14803.3 | 15832.0 | 14091.2 |
| 50°   | 11451.4 | 11381.8 | 11682.5 | 12432.6 | 13391.7 | 13993.0 | 14404.5 | 15075.5 | 16290.9 | 17085.4 | 14939.4 |
| 52.5° | 11954.7 | 11888.2 | 12230.1 | 13163.8 | 14420.3 | 15151.5 | 15680.1 | 16357.4 | 17566.5 | 18041.3 | 15445.8 |
| 55°   | 12594.1 | 12527.6 | 12888.4 | 14040.5 | 15635.8 | 16585.3 | 17139.2 | 17708.9 | 18753.4 | 18747.1 | 15813.0 |
| 57.5° | 13303.0 | 13211.3 | 13711.4 | 15148.3 | 17151.8 | 18139.4 | 18702.8 | 18981.3 | 19655.5 | 19294.6 | 16059.9 |
| 60°   | 14116.5 | 14034.2 | 14727.4 | 16468.2 | 18902.2 | 19816.9 | 20171.4 | 20057.4 | 20396.1 | 19617.5 | 15974.4 |
| 62.5° | 14850.8 | 14812.8 | 15673.7 | 17867.2 | 20570.2 | 21342.5 | 21440.6 | 20943.7 | 20940.5 | 19623.8 | 15398.4 |
| 65°   | 15613.6 | 15686.4 | 16965.1 | 19478.2 | 22247.7 | 22766.8 | 22599.0 | 21823.6 | 21158.9 | 18848.4 | 13695.5 |
| 67.5° | 15898.5 | 16110.5 | 17816.5 | 20934.2 | 23570.7 | 23975.9 | 23681.5 | 22263.5 | 20250.5 | 16240.3 | 10429.1 |
| 70°   | 14138.6 | 14537.5 | 17012.6 | 21016.5 | 24118.3 | 24504.5 | 23798.6 | 21079.8 | 16882.8 | 10758.3 | 5713.1  |
| 72.5° | 10752.0 | 11217.2 | 14176.6 | 17208.8 | 21690.6 | 22570.6 | 21364.6 | 17174.0 | 10881.7 | 4712.9  | 1918.1  |
| 75°   | 6016.9  | 6520.2  | 10558.9 | 12958.0 | 14562.8 | 15366.7 | 14923.6 | 11017.8 | 4820.5  | 1231.2  | 572.9   |
| 77.5° | 2035.2  | 2202.9  | 4912.3  | 8017.3  | 9612.5  | 8890.9  | 7526.7  | 5472.5  | 1772.5  | 468.4   | 303.9   |
| 80°   | 1205.9  | 1269.2  | 1829.4  | 3991.2  | 5057.9  | 4193.8  | 3310.7  | 2022.5  | 902.1   | 250.0   | 212.1   |
| 82.5° | 360.8   | 427.3   | 1009.7  | 1481.3  | 1981.4  | 1234.4  | 1044.5  | 1155.3  | 468.4   | 136.1   | 177.2   |
| 85°   | 0.0     | 0.0     | 215.2   | 458.9   | 519.1   | 202.6   | 202.6   | 655.2   | 85.5    | 57.0    | 129.8   |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 3.2     | 15.8    | 9.5     | 12.7    | 28.5    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5903.0  | 5903.0 | 5903.0 | 5903.0 | 5903.0 | 5903.0 | 5903.0 | 5903.0 | 5903.0 | 5903.0 | 5903.0 |
| 2.5°  | 5865.0  | 5754.2 | 5624.4 | 5501.0 | 5383.9 | 5232.0 | 5159.2 | 5070.5 | 4994.6 | 4953.4 | 4975.6 |
| 5°    | 5747.9  | 5573.8 | 5307.9 | 5038.9 | 4766.7 | 4510.3 | 4279.3 | 4124.2 | 3984.9 | 3912.1 | 3927.9 |
| 7.5°  | 5646.6  | 5412.4 | 4997.7 | 4557.8 | 4121.0 | 3681.0 | 3323.4 | 3044.9 | 2829.6 | 2741.0 | 2725.2 |
| 10°   | 5602.3  | 5307.9 | 4722.4 | 4089.4 | 3418.3 | 2826.5 | 2320.0 | 2013.0 | 1794.6 | 1687.0 | 1706.0 |
| 12.5° | 5624.4  | 5254.1 | 4488.2 | 3630.4 | 2760.0 | 2070.0 | 1585.7 | 1297.7 | 1142.6 | 1079.3 | 1063.5 |
| 15°   | 5687.7  | 5241.5 | 4279.3 | 3162.0 | 2130.1 | 1446.5 | 1095.1 | 978.0  | 946.4  | 940.0  | 940.0  |
| 17.5° | 5760.5  | 5244.6 | 4064.0 | 2687.2 | 1617.4 | 1073.0 | 936.9  | 914.7  | 905.2  | 898.9  | 902.1  |
| 20°   | 5833.3  | 5244.6 | 3817.1 | 2206.1 | 1215.4 | 927.4  | 892.6  | 876.7  | 867.2  | 864.1  | 864.1  |
| 22.5° | 5922.0  | 5244.6 | 3541.8 | 1759.8 | 974.9  | 879.9  | 851.4  | 841.9  | 832.4  | 829.3  | 826.1  |
| 25°   | 6029.6  | 5247.8 | 3237.9 | 1376.8 | 886.2  | 838.8  | 816.6  | 807.1  | 797.6  | 791.3  | 791.3  |
| 27.5° | 6184.7  | 5273.1 | 2902.4 | 1073.0 | 835.6  | 800.8  | 781.8  | 772.3  | 762.8  | 753.3  | 753.3  |
| 30°   | 6409.4  | 5336.4 | 2525.8 | 886.2  | 788.1  | 759.6  | 740.6  | 734.3  | 724.8  | 715.3  | 712.2  |
| 32.5° | 6744.9  | 5447.2 | 2136.5 | 794.4  | 743.8  | 715.3  | 693.2  | 686.8  | 677.3  | 667.8  | 664.7  |
| 35°   | 7213.3  | 5649.8 | 1756.6 | 737.5  | 686.8  | 658.3  | 645.7  | 642.5  | 629.9  | 620.4  | 620.4  |
| 37.5° | 7900.2  | 5978.9 | 1392.7 | 680.5  | 639.4  | 617.2  | 601.4  | 595.0  | 582.4  | 572.9  | 569.7  |
| 40°   | 8738.9  | 6406.2 | 1082.5 | 636.2  | 595.0  | 572.9  | 557.1  | 547.6  | 531.7  | 519.1  | 512.8  |
| 42.5° | 9808.7  | 6928.5 | 854.6  | 588.7  | 553.9  | 531.7  | 519.1  | 500.1  | 477.9  | 458.9  | 455.8  |
| 45°   | 10922.9 | 7466.5 | 705.8  | 544.4  | 515.9  | 496.9  | 481.1  | 455.8  | 424.1  | 402.0  | 395.6  |
| 47.5° | 11777.5 | 7802.0 | 617.2  | 496.9  | 474.8  | 458.9  | 440.0  | 408.3  | 370.3  | 345.0  | 338.7  |
| 50°   | 12388.3 | 7852.7 | 550.7  | 452.6  | 440.0  | 424.1  | 395.6  | 357.7  | 316.5  | 291.2  | 284.9  |
| 52.5° | 12689.0 | 7624.8 | 496.9  | 411.5  | 402.0  | 386.1  | 351.3  | 310.2  | 265.9  | 240.6  | 234.2  |
| 55°   | 12825.1 | 7194.3 | 446.3  | 376.7  | 364.0  | 345.0  | 307.0  | 262.7  | 218.4  | 196.2  | 189.9  |
| 57.5° | 12771.3 | 6558.2 | 402.0  | 341.8  | 326.0  | 303.9  | 262.7  | 215.2  | 180.4  | 158.3  | 155.1  |
| 60°   | 12372.5 | 5665.6 | 357.7  | 307.0  | 288.0  | 262.7  | 221.6  | 177.2  | 145.6  | 129.8  | 126.6  |
| 62.5° | 11511.6 | 4557.8 | 313.3  | 265.9  | 253.2  | 227.9  | 189.9  | 145.6  | 120.3  | 110.8  | 107.6  |
| 65°   | 9748.6  | 3222.1 | 269.0  | 224.7  | 218.4  | 193.1  | 158.3  | 120.3  | 104.4  | 98.1   | 95.0   |
| 67.5° | 7007.6  | 1959.2 | 227.9  | 193.1  | 186.7  | 164.6  | 132.9  | 104.4  | 95.0   | 91.8   | 91.8   |
| 70°   | 3522.8  | 927.4  | 180.4  | 158.3  | 158.3  | 136.1  | 113.9  | 95.0   | 91.8   | 88.6   | 88.6   |
| 72.5° | 1196.4  | 395.6  | 136.1  | 123.4  | 129.8  | 117.1  | 98.1   | 88.6   | 88.6   | 88.6   | 88.6   |
| 75°   | 408.3   | 208.9  | 95.0   | 88.6   | 95.0   | 95.0   | 85.5   | 85.5   | 88.6   | 88.6   | 88.6   |
| 77.5° | 265.9   | 139.3  | 66.5   | 60.1   | 72.8   | 72.8   | 72.8   | 79.1   | 85.5   | 85.5   | 85.5   |
| 80°   | 218.4   | 76.0   | 44.3   | 41.1   | 53.8   | 53.8   | 60.1   | 72.8   | 79.1   | 79.1   | 79.1   |
| 82.5° | 186.7   | 47.5   | 25.3   | 28.5   | 38.0   | 41.1   | 50.6   | 60.1   | 69.6   | 72.8   | 72.8   |
| 85°   | 126.6   | 25.3   | 19.0   | 22.2   | 25.3   | 31.7   | 41.1   | 50.6   | 57.0   | 63.3   | 63.3   |
| 87.5° | 34.8    | 9.5    | 12.7   | 15.8   | 15.8   | 22.2   | 31.7   | 38.0   | 44.3   | 47.5   | 47.5   |
| 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)