

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: P643254

Luminaire Tested: GWS-SA6E-750-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643254  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-750-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

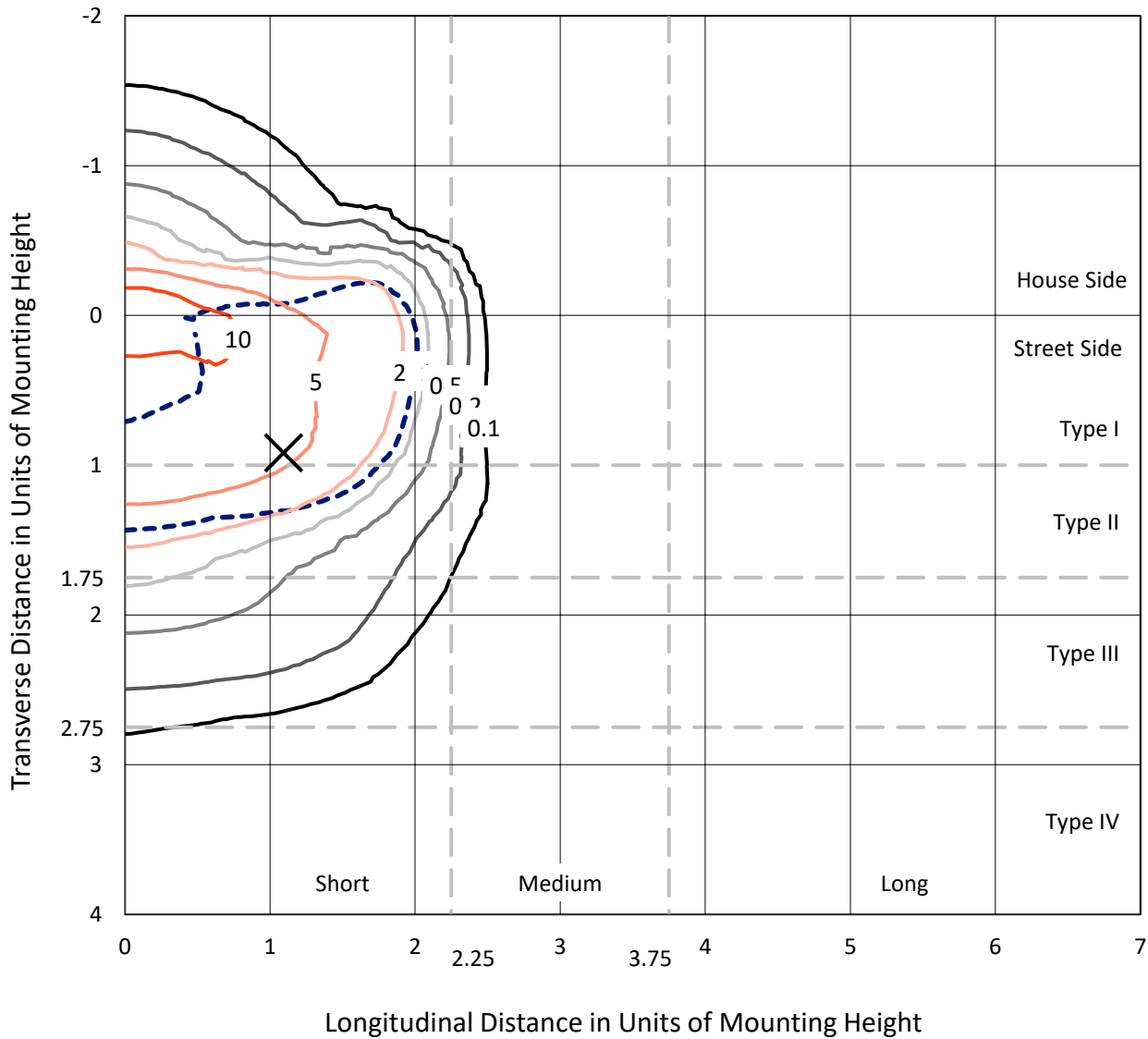
Lumens per Lamp: N/A  
Luminaire Lumens: 26887.6 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

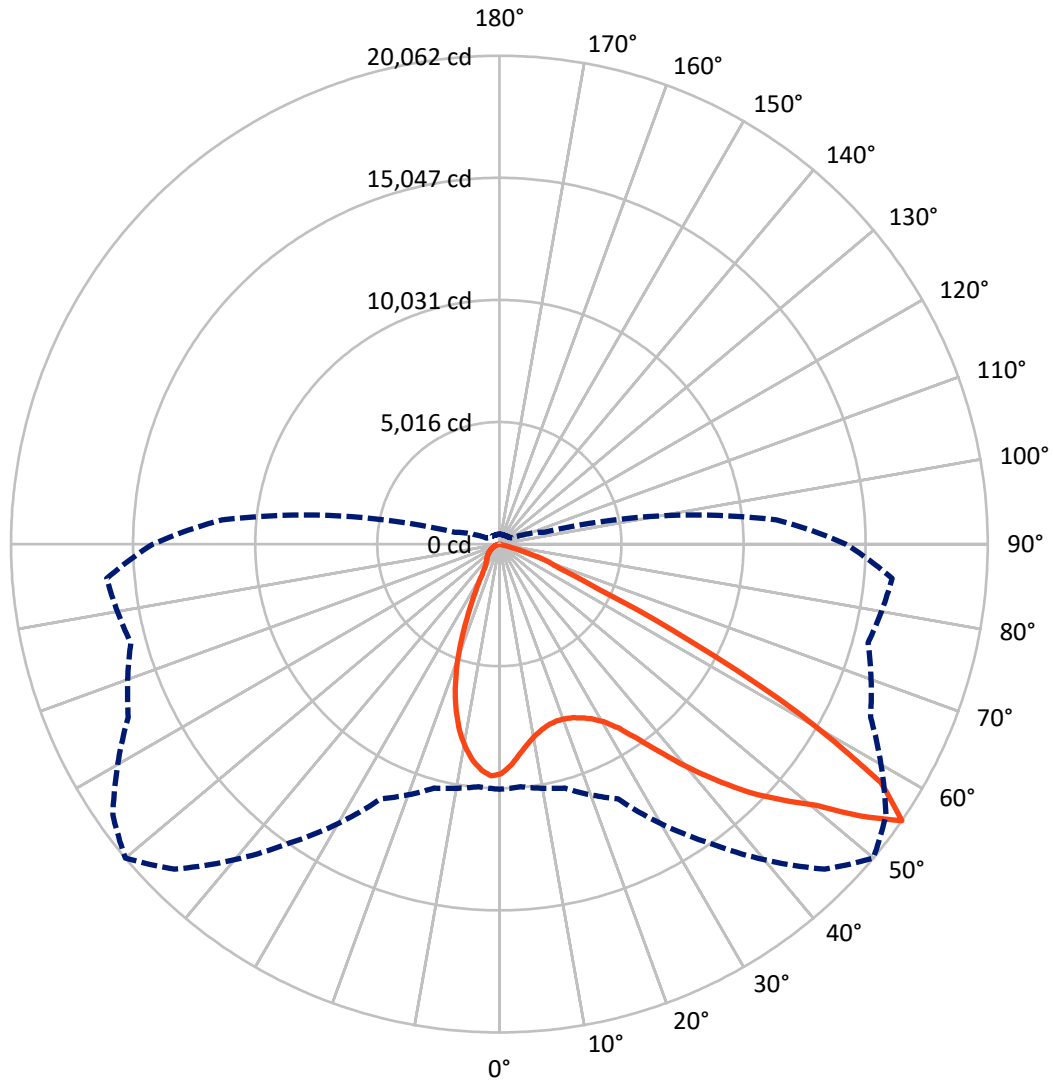
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5298.1   | 0.0    | 5298.1  |
|                    | % Fixture | 19.7     | 0.0    | 19.7    |
| <b>Street Side</b> | Lumens    | 21589.5  | 0.0    | 21589.5 |
|                    | % Fixture | 80.3     | 0.0    | 80.3    |
| <b>Total</b>       | Lumens    | 26887.6  | 0.0    | 26887.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 828.5   | 3.1       |
| 10°-20°   | 2038.7  | 7.6       |
| 20°-30°   | 2875.7  | 10.7      |
| 30°-40°   | 4255.5  | 15.8      |
| 40°-50°   | 6139.3  | 22.8      |
| 50°-60°   | 7241.7  | 26.9      |
| 60°-70°   | 3230.4  | 12.0      |
| 70°-80°   | 277.7   | 1.0       |
| 80°-90°   | 0.1     | 0.0       |
| 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°    | 26887.6 | 100.0     |
| 0°-180°   | 26887.6 | 100.0     |

**Coefficient of Utilization**



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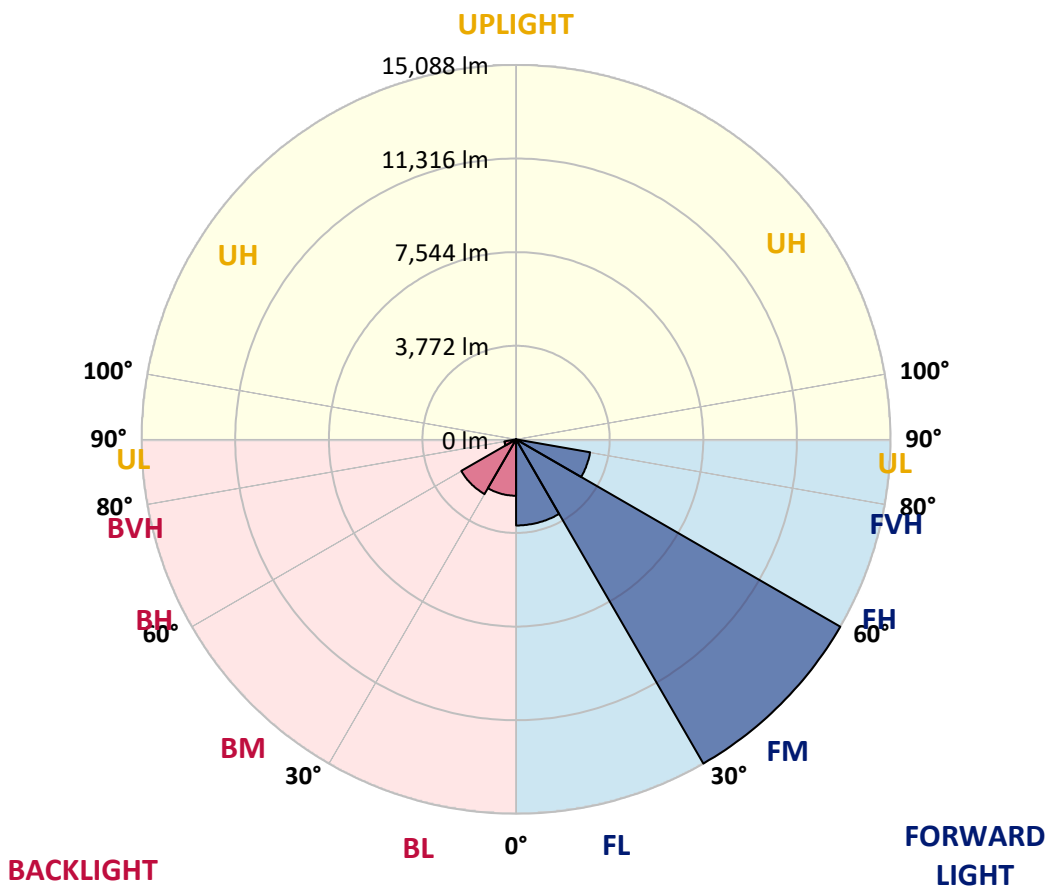
CATALOG NUMBER: GWS-SA6E-750-U-SL2-W-GRSBK

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3471.3  | 12.9      |                         |      |         |
| FM (30°-60°)   | 15088.4 | 56.1      |                         |      |         |
| FH (60°-80°)   | 3029.7  | 11.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 0.0     | 0.0       |                         |      | G0/10   |
| BL (0°-30°)    | 2271.6  | 8.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 2548.0  | 9.5       | B3/5000                 |      |         |
| BH (60°-80°)   | 478.4   | 1.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 0.1     | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 50°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9433.7  | 9433.7  | 9433.7  | 9433.7  | 9433.7  | 9433.7  | 9433.7  | 9433.7  | 9433.7  | 9433.7  | 9433.7  |
| 2.5°  | 8764.1  | 8770.6  | 8773.9  | 8862.5  | 8895.3  | 9026.6  | 9095.6  | 9131.7  | 9226.9  | 9338.5  | 9430.4  |
| 5°    | 8176.5  | 8166.7  | 8183.1  | 8294.7  | 8366.9  | 8560.5  | 8665.6  | 8737.8  | 8947.9  | 9210.5  | 9430.4  |
| 7.5°  | 7664.4  | 7684.1  | 7703.8  | 7825.3  | 7933.6  | 8143.7  | 8294.7  | 8403.0  | 8695.1  | 9085.7  | 9456.6  |
| 10°   | 7303.4  | 7303.4  | 7332.9  | 7470.8  | 7598.8  | 7858.1  | 8009.1  | 8147.0  | 8494.9  | 8974.1  | 9486.2  |
| 12.5° | 7037.5  | 7040.8  | 7076.9  | 7234.4  | 7382.2  | 7651.3  | 7808.9  | 7943.4  | 8327.5  | 8862.5  | 9492.7  |
| 15°   | 6912.8  | 6902.9  | 6932.5  | 7099.9  | 7264.0  | 7516.7  | 7680.9  | 7812.2  | 8209.3  | 8800.2  | 9525.6  |
| 17.5° | 6879.9  | 6873.4  | 6896.4  | 7060.5  | 7227.9  | 7474.1  | 7634.9  | 7766.2  | 8192.9  | 8819.9  | 9624.0  |
| 20°   | 6975.1  | 6962.0  | 6952.2  | 7093.3  | 7250.9  | 7493.8  | 7661.2  | 7808.9  | 8271.7  | 8928.2  | 9775.0  |
| 22.5° | 7201.6  | 7201.6  | 7178.6  | 7247.6  | 7352.6  | 7572.5  | 7746.5  | 7940.2  | 8478.5  | 9144.8  | 9998.2  |
| 25°   | 7618.5  | 7585.7  | 7543.0  | 7572.5  | 7559.4  | 7697.3  | 7904.1  | 8173.2  | 8869.1  | 9502.6  | 10270.7 |
| 27.5° | 8094.4  | 8124.0  | 8051.8  | 8055.1  | 7940.2  | 7890.9  | 8130.5  | 8537.6  | 9450.1  | 10008.1 | 10674.4 |
| 30°   | 8741.1  | 8718.1  | 8721.4  | 8711.5  | 8445.7  | 8212.6  | 8471.9  | 9013.5  | 10182.1 | 10779.5 | 11199.6 |
| 32.5° | 9246.6  | 9279.4  | 9387.7  | 9450.1  | 9102.1  | 8727.9  | 9003.7  | 9660.2  | 11015.8 | 11659.1 | 11843.0 |
| 35°   | 9781.6  | 9840.7  | 10060.6 | 10264.1 | 9972.0  | 9542.0  | 9837.4  | 10516.9 | 11800.3 | 12529.0 | 12581.5 |
| 37.5° | 10346.2 | 10464.3 | 10726.9 | 11084.7 | 11038.8 | 10658.0 | 10927.2 | 11524.6 | 12417.4 | 13054.2 | 13192.0 |
| 40°   | 10992.8 | 11107.7 | 11537.7 | 12053.0 | 12161.4 | 12076.0 | 12164.6 | 12512.6 | 12824.4 | 13077.1 | 13454.6 |
| 42.5° | 11701.8 | 11859.4 | 12404.3 | 13093.6 | 13500.6 | 13576.1 | 13369.3 | 13333.2 | 13001.7 | 12814.6 | 13398.8 |
| 45°   | 12538.8 | 12722.6 | 13339.7 | 14232.6 | 14879.2 | 14980.9 | 14623.2 | 14160.3 | 13113.3 | 12620.9 | 13231.4 |
| 47.5° | 13477.6 | 13651.6 | 14265.4 | 15338.7 | 16300.5 | 16339.9 | 15716.2 | 14971.1 | 13444.8 | 12844.1 | 13359.4 |
| 50°   | 13792.7 | 13901.0 | 14432.8 | 15693.2 | 17465.7 | 17767.7 | 16865.1 | 15883.6 | 14111.1 | 13500.6 | 13983.1 |
| 52.5° | 12709.5 | 12752.2 | 13215.0 | 14488.6 | 17229.4 | 19169.3 | 18542.4 | 17245.8 | 15296.1 | 14501.7 | 14944.8 |
| 55°   | 10070.5 | 10001.5 | 10375.7 | 11544.3 | 14974.4 | 18883.7 | 20062.1 | 19386.0 | 16822.4 | 15676.8 | 16195.4 |
| 57.5° | 7044.1  | 6962.0  | 6876.7  | 7667.7  | 11173.3 | 16008.3 | 18486.6 | 19684.7 | 18276.5 | 16842.1 | 17544.5 |
| 60°   | 5790.2  | 5711.4  | 5297.8  | 4933.5  | 6755.2  | 11495.0 | 14199.7 | 16454.8 | 18158.3 | 16783.0 | 17501.8 |
| 62.5° | 5002.4  | 4956.4  | 4789.0  | 4293.4  | 3975.0  | 6561.6  | 8892.1  | 11051.9 | 13933.9 | 13178.9 | 13218.3 |
| 65°   | 3929.1  | 3915.9  | 4030.8  | 4083.3  | 3515.5  | 3630.4  | 4536.3  | 5744.2  | 7533.1  | 7103.1  | 6735.5  |
| 67.5° | 2685.0  | 2655.5  | 2872.1  | 3531.9  | 3380.9  | 2865.5  | 2655.5  | 2678.5  | 3259.4  | 1992.4  | 1582.1  |
| 70°   | 1706.9  | 1637.9  | 1641.2  | 2189.4  | 2750.7  | 2261.6  | 2048.2  | 1802.0  | 1621.5  | 295.4   | 334.8   |
| 72.5° | 1093.0  | 1050.4  | 902.7   | 988.0   | 1273.6  | 1102.9  | 1112.7  | 958.5   | 640.1   | 157.6   | 183.8   |
| 75°   | 459.5   | 423.4   | 325.0   | 259.3   | 256.0   | 160.8   | 141.1   | 131.3   | 88.6    | 88.6    | 95.2    |
| 77.5° | 3.3     | 0.0     | 0.0     | 3.3     | 6.6     | 3.3     | 3.3     | 6.6     | 13.1    | 19.7    | 23.0    |
| 80°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 3.3     |
| 82.5° | 0.0     | 0.0     | 0.0     | 0.0     | 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     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 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     | 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°    | 9433.7  | 9433.7  | 9433.7 | 9433.7 | 9433.7 | 9433.7 | 9433.7 | 9433.7 | 9433.7 | 9433.7 | 9433.7 |
| 2.5°  | 9486.2  | 9407.4  | 9496.0 | 9528.9 | 9525.6 | 9528.9 | 9433.7 | 9368.0 | 9364.7 | 9282.7 | 9243.3 |
| 5°    | 9522.3  | 9459.9  | 9525.6 | 9482.9 | 9381.1 | 9253.1 | 9082.4 | 8934.7 | 8869.1 | 8773.9 | 8727.9 |
| 7.5°  | 9591.2  | 9525.6  | 9515.7 | 9345.0 | 9092.3 | 8823.1 | 8521.2 | 8252.0 | 8107.6 | 7933.6 | 7943.4 |
| 10°   | 9640.5  | 9565.0  | 9436.9 | 9089.0 | 8668.9 | 8238.9 | 7789.2 | 7388.7 | 7136.0 | 6902.9 | 6863.5 |
| 12.5° | 9660.2  | 9548.5  | 9249.8 | 8724.7 | 8133.8 | 7572.5 | 6912.8 | 6341.6 | 5947.7 | 5642.5 | 5599.8 |
| 15°   | 9696.3  | 9515.7  | 9010.2 | 8284.8 | 7474.1 | 6679.7 | 5839.4 | 5058.2 | 4536.3 | 4185.1 | 4214.6 |
| 17.5° | 9752.1  | 9479.6  | 8741.1 | 7792.5 | 6765.1 | 5642.5 | 4506.8 | 3610.7 | 3131.4 | 2927.9 | 2931.2 |
| 20°   | 9830.8  | 9436.9  | 8445.7 | 7250.9 | 5914.9 | 4470.7 | 3151.1 | 2474.9 | 2340.4 | 2333.8 | 2324.0 |
| 22.5° | 9935.9  | 9394.3  | 8130.5 | 6656.7 | 4907.2 | 3131.4 | 2097.5 | 1887.4 | 1943.2 | 2051.5 | 2071.2 |
| 25°   | 10060.6 | 9341.8  | 7779.3 | 5987.1 | 3807.6 | 2054.8 | 1572.3 | 1539.5 | 1674.0 | 1818.5 | 1851.3 |
| 27.5° | 10254.3 | 9315.5  | 7378.9 | 5225.6 | 2671.9 | 1473.8 | 1286.7 | 1306.4 | 1427.9 | 1549.3 | 1578.8 |
| 30°   | 10582.5 | 9364.7  | 6942.3 | 4372.2 | 1716.7 | 1175.1 | 1116.0 | 1145.6 | 1211.2 | 1273.6 | 1299.8 |
| 32.5° | 11028.9 | 9509.2  | 6518.9 | 3440.0 | 1224.3 | 1020.8 | 1007.7 | 1024.1 | 1050.4 | 1086.5 | 1096.3 |
| 35°   | 11550.8 | 9758.6  | 6082.3 | 2461.8 | 1011.0 | 932.2  | 919.1  | 919.1  | 932.2  | 938.8  | 942.1  |
| 37.5° | 11980.8 | 10021.2 | 5672.0 | 1637.9 | 905.9  | 863.3  | 843.6  | 833.7  | 830.5  | 837.0  | 840.3  |
| 40°   | 12167.9 | 10129.5 | 5225.6 | 1191.5 | 830.5  | 800.9  | 771.4  | 741.8  | 741.8  | 764.8  | 768.1  |
| 42.5° | 12036.6 | 10008.1 | 4710.3 | 984.7  | 777.9  | 735.3  | 689.3  | 663.0  | 676.2  | 699.2  | 705.7  |
| 45°   | 11757.6 | 9709.4  | 4142.4 | 869.8  | 725.4  | 669.6  | 617.1  | 600.7  | 613.8  | 643.4  | 649.9  |
| 47.5° | 11711.7 | 9512.4  | 3462.9 | 794.3  | 669.6  | 613.8  | 558.0  | 541.6  | 558.0  | 581.0  | 587.6  |
| 50°   | 12167.9 | 9683.1  | 2708.0 | 728.7  | 617.1  | 554.7  | 508.8  | 492.4  | 502.2  | 515.3  | 521.9  |
| 52.5° | 13001.7 | 10316.6 | 2186.1 | 666.3  | 554.7  | 495.6  | 466.1  | 446.4  | 446.4  | 459.5  | 462.8  |
| 55°   | 14232.6 | 11422.8 | 1887.4 | 594.1  | 482.5  | 449.7  | 423.4  | 403.7  | 403.7  | 410.3  | 413.6  |
| 57.5° | 15650.6 | 12762.0 | 1956.3 | 498.9  | 423.4  | 407.0  | 384.0  | 367.6  | 374.2  | 374.2  | 374.2  |
| 60°   | 15453.6 | 12663.6 | 2094.2 | 420.1  | 374.2  | 367.6  | 347.9  | 341.4  | 357.8  | 344.7  | 338.1  |
| 62.5° | 11383.4 | 8747.6  | 1096.3 | 344.7  | 321.7  | 315.1  | 302.0  | 315.1  | 338.1  | 302.0  | 288.9  |
| 65°   | 5527.6  | 4234.3  | 439.8  | 282.3  | 272.4  | 265.9  | 259.3  | 279.0  | 292.1  | 236.3  | 223.2  |
| 67.5° | 1299.8  | 1056.9  | 285.6  | 239.6  | 226.5  | 213.4  | 219.9  | 223.2  | 213.4  | 160.8  | 154.3  |
| 70°   | 338.1   | 331.5   | 223.2  | 200.2  | 180.5  | 167.4  | 167.4  | 164.1  | 141.1  | 101.8  | 95.2   |
| 72.5° | 183.8   | 180.5   | 160.8  | 151.0  | 124.7  | 111.6  | 114.9  | 101.8  | 78.8   | 59.1   | 55.8   |
| 75°   | 91.9    | 98.5    | 91.9   | 85.3   | 68.9   | 62.4   | 62.4   | 55.8   | 39.4   | 23.0   | 23.0   |
| 77.5° | 19.7    | 23.0    | 23.0   | 19.7   | 16.4   | 13.1   | 13.1   | 16.4   | 6.6    | 0.0    | 0.0    |
| 80°   | 3.3     | 3.3     | 3.3    | 3.3    | 3.3    | 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    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0     | 0.0     | 0.0    | 0.0    | 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    | 0.0    | 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)