

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: P641331

Luminaire Tested: GWS-SA5F-760-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641331  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-760-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

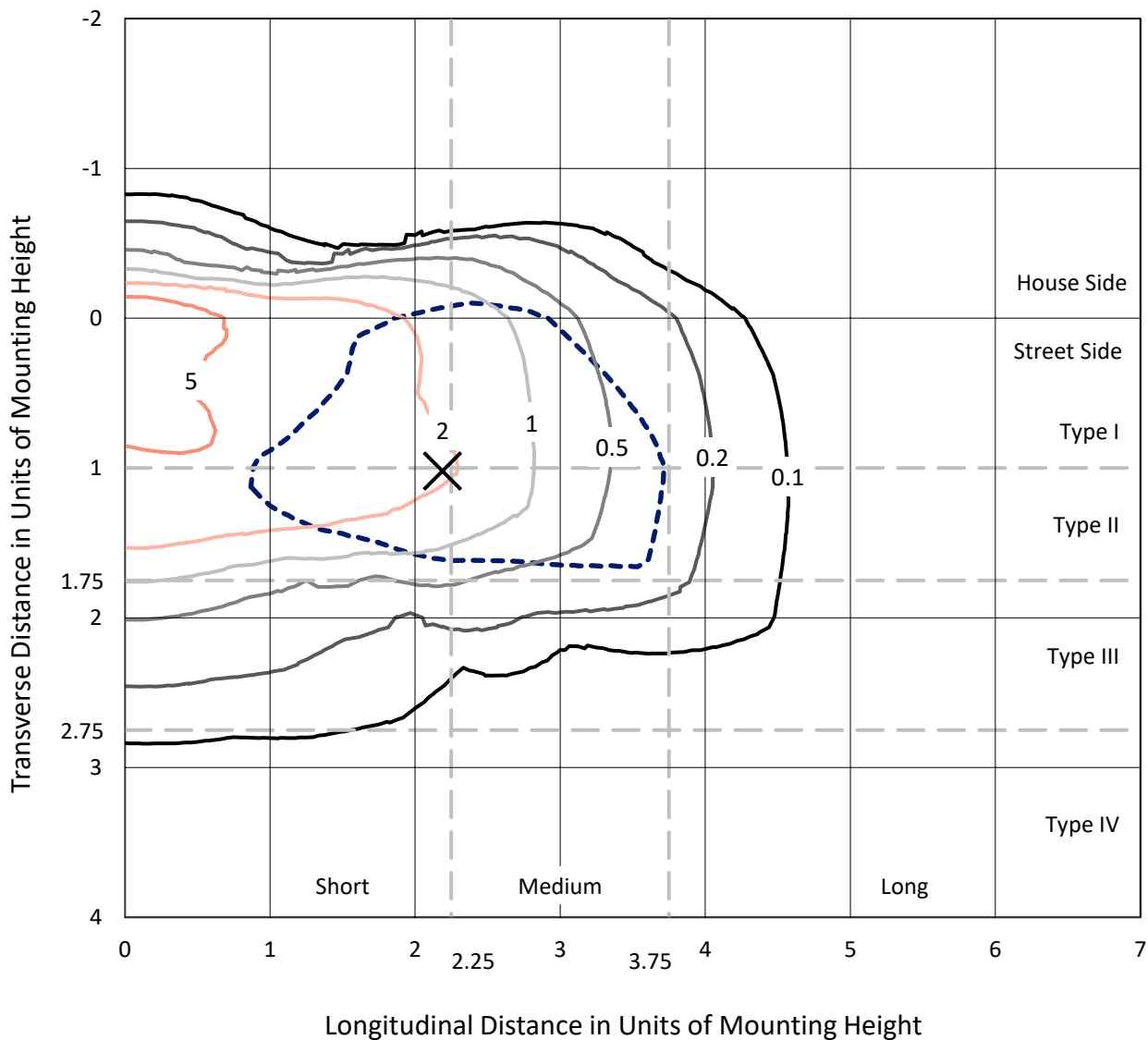
Lumens per Lamp: N/A  
Luminaire Lumens: 33381 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

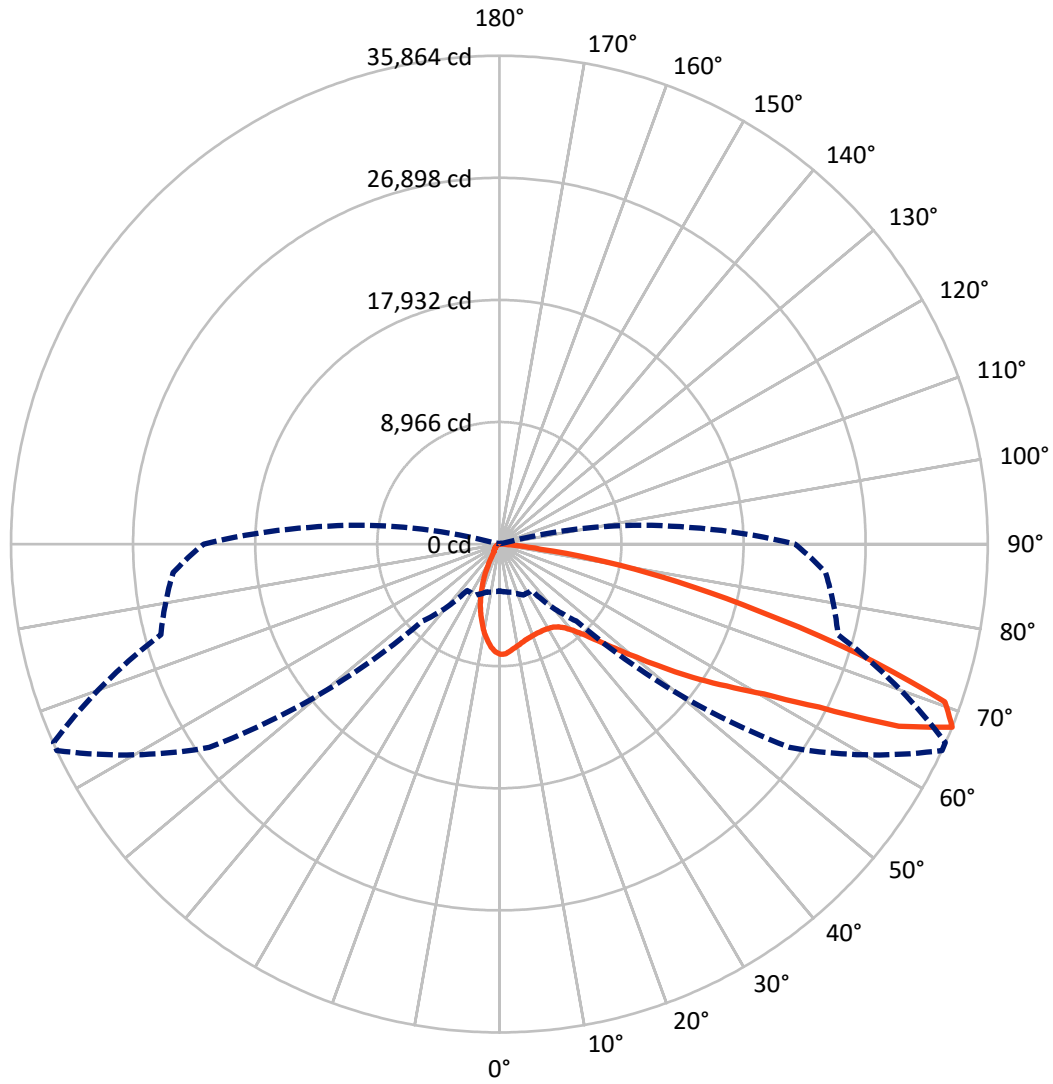
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4168.3   | 0.0    | 4168.3  |
|                    | % Fixture | 12.5     | 0.0    | 12.5    |
| <b>Street Side</b> | Lumens    | 29212.7  | 0.0    | 29212.7 |
|                    | % Fixture | 87.5     | 0.0    | 87.5    |
| <b>Total</b>       | Lumens    | 33381.0  | 0.0    | 33381.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 672.4   | 2.0       |
| 10°-20°   | 1511.5  | 4.5       |
| 20°-30°   | 2159.9  | 6.5       |
| 30°-40°   | 3142.4  | 9.4       |
| 40°-50°   | 4921.5  | 14.7      |
| 50°-60°   | 7677.7  | 23.0      |
| 60°-70°   | 8433.6  | 25.3      |
| 70°-80°   | 4488.3  | 13.4      |
| 80°-90°   | 373.7   | 1.1       |
| 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°    | 33381.0 | 100.0     |
| 0°-180°   | 33381.0 | 100.0     |

**Coefficient of Utilization**



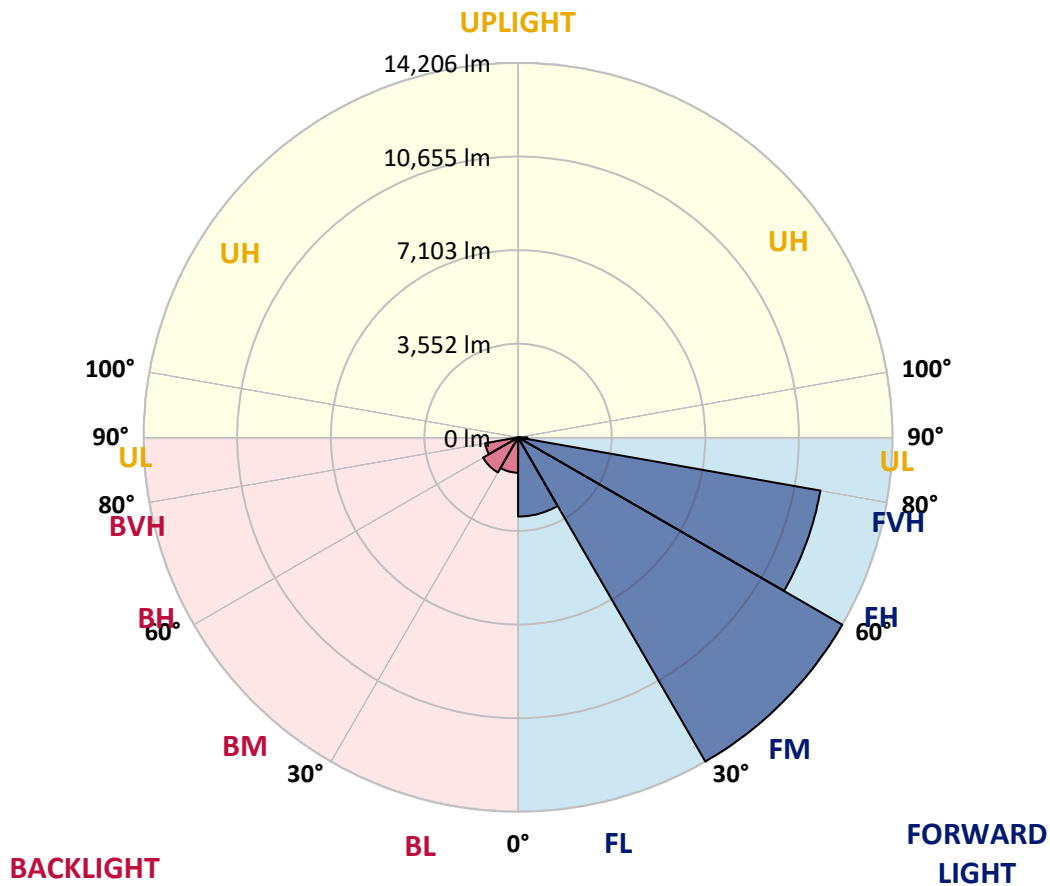
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3004.1  | 9.0       |                         |      |          |
| FM (30°-60°)   | 14206.2 | 42.6      |                         |      |          |
| FH (60°-80°)   | 11648.7 | 34.9      |                         |      | G4/12000 |
| FVH (80°-90°)  | 353.7   | 1.1       |                         |      | G3/500   |
| BL (0°-30°)    | 1339.8  | 4.0       | B3/2500                 |      |          |
| BM (30°-60°)   | 1535.4  | 4.6       | B2/2500                 |      |          |
| BH (60°-80°)   | 1273.2  | 3.8       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 20.0    | 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-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8095.9  | 8095.9  | 8095.9  | 8095.9  | 8095.9  | 8095.9  | 8095.9  | 8095.9  | 8095.9  | 8095.9  | 8095.9  |
| 2.5°  | 7815.2  | 7839.4  | 7806.2  | 7887.7  | 7902.8  | 7993.3  | 8044.6  | 8080.9  | 8077.8  | 8123.1  | 8123.1  |
| 5°    | 7356.4  | 7380.5  | 7362.4  | 7450.0  | 7519.4  | 7661.3  | 7779.0  | 7914.8  | 7920.9  | 8059.7  | 8111.0  |
| 7.5°  | 6967.0  | 6970.0  | 6970.0  | 7078.7  | 7169.2  | 7344.3  | 7519.4  | 7727.7  | 7751.8  | 7966.1  | 8102.0  |
| 10°   | 6647.0  | 6656.1  | 6659.1  | 6782.8  | 6882.5  | 7093.8  | 7317.1  | 7567.7  | 7594.9  | 7884.6  | 8095.9  |
| 12.5° | 6426.6  | 6429.7  | 6441.7  | 6571.5  | 6680.2  | 6900.6  | 7127.0  | 7413.7  | 7450.0  | 7791.1  | 8068.8  |
| 15°   | 6321.0  | 6315.0  | 6321.0  | 6429.7  | 6538.3  | 6749.6  | 6982.1  | 7290.0  | 7329.2  | 7712.6  | 8071.8  |
| 17.5° | 6315.0  | 6305.9  | 6299.9  | 6381.4  | 6450.8  | 6637.9  | 6873.4  | 7208.5  | 7250.7  | 7676.4  | 8105.0  |
| 20°   | 6402.5  | 6396.5  | 6366.3  | 6402.5  | 6417.6  | 6571.5  | 6804.0  | 7145.1  | 7187.3  | 7670.3  | 8177.4  |
| 22.5° | 6631.9  | 6616.8  | 6571.5  | 6538.3  | 6456.8  | 6547.4  | 6755.7  | 7099.8  | 7148.1  | 7685.4  | 8271.0  |
| 25°   | 6973.0  | 6967.0  | 6909.6  | 6828.1  | 6619.8  | 6583.6  | 6758.7  | 7099.8  | 7145.1  | 7703.5  | 8370.6  |
| 27.5° | 7486.2  | 7450.0  | 7377.5  | 7235.6  | 6936.8  | 6725.5  | 6819.1  | 7117.9  | 7163.2  | 7727.7  | 8452.1  |
| 30°   | 8008.4  | 8005.4  | 7981.2  | 7836.3  | 7392.6  | 6997.2  | 6945.8  | 7166.2  | 7208.5  | 7748.8  | 8527.6  |
| 32.5° | 8548.7  | 8557.8  | 8618.2  | 8506.5  | 8020.5  | 7401.7  | 7175.3  | 7265.8  | 7296.0  | 7791.1  | 8594.0  |
| 35°   | 9061.9  | 9080.0  | 9240.0  | 9279.2  | 8784.2  | 8014.4  | 7549.6  | 7465.1  | 7468.1  | 7884.6  | 8681.6  |
| 37.5° | 9553.9  | 9614.3  | 9870.9  | 10061.1 | 9735.1  | 8757.0  | 8089.9  | 7803.1  | 7779.0  | 8071.8  | 8814.4  |
| 40°   | 10112.4 | 10227.1 | 10550.1 | 10873.1 | 10770.4 | 9738.1  | 8826.5  | 8322.3  | 8271.0  | 8415.9  | 9052.8  |
| 42.5° | 10731.2 | 10855.0 | 11283.6 | 11736.4 | 11784.7 | 10924.4 | 9747.1  | 9080.0  | 8992.5  | 8995.5  | 9499.6  |
| 45°   | 11395.3 | 11561.3 | 12059.4 | 12711.4 | 13004.2 | 12246.5 | 10882.1 | 10103.3 | 10015.8 | 9886.0  | 10218.0 |
| 47.5° | 12267.7 | 12412.6 | 12892.5 | 13644.2 | 14205.6 | 13665.3 | 12370.3 | 11419.4 | 11259.5 | 11069.3 | 11334.9 |
| 50°   | 13019.3 | 13146.1 | 13559.6 | 14501.5 | 15669.7 | 15494.6 | 14057.7 | 13064.6 | 12910.6 | 12587.7 | 12808.0 |
| 52.5° | 13185.3 | 13285.0 | 13665.3 | 14724.8 | 16789.6 | 17803.8 | 16125.5 | 15053.9 | 14945.2 | 14347.5 | 14432.0 |
| 55°   | 12439.7 | 12590.7 | 12931.8 | 14109.0 | 17082.4 | 20061.8 | 18809.0 | 17296.7 | 17070.3 | 16116.4 | 16267.4 |
| 57.5° | 10556.1 | 10824.8 | 11144.8 | 12675.2 | 16288.5 | 21263.2 | 22558.2 | 19672.4 | 19467.1 | 17818.9 | 17821.9 |
| 60°   | 7736.7  | 7954.1  | 8168.4  | 9569.0  | 14404.9 | 21181.7 | 25960.1 | 22340.8 | 21966.5 | 19210.5 | 19159.2 |
| 62.5° | 5626.7  | 5738.4  | 5735.4  | 6233.5  | 9892.0  | 19787.1 | 27747.2 | 26361.6 | 25489.2 | 20698.7 | 20405.9 |
| 65°   | 4425.3  | 4422.3  | 4552.1  | 4715.1  | 5524.1  | 15274.2 | 27967.5 | 32232.8 | 31291.0 | 22694.0 | 22084.2 |
| 67.5° | 3444.2  | 3510.7  | 3640.5  | 4120.4  | 4150.6  | 7993.3  | 26029.6 | 35864.2 | 35846.1 | 25739.8 | 24049.4 |
| 70°   | 2656.4  | 2746.9  | 2931.1  | 3631.4  | 3833.6  | 4473.6  | 19476.1 | 34714.2 | 35007.0 | 27101.2 | 22657.8 |
| 72.5° | 1705.5  | 1699.5  | 1971.2  | 2934.1  | 3682.7  | 3728.0  | 10770.4 | 27575.1 | 27907.2 | 24547.4 | 18320.0 |
| 75°   | 953.9   | 959.9   | 1113.9  | 1796.1  | 3432.2  | 3507.6  | 5333.9  | 19663.3 | 19925.9 | 19138.1 | 14075.8 |
| 77.5° | 374.3   | 386.4   | 522.2   | 944.8   | 2264.0  | 3133.3  | 3169.6  | 13408.7 | 13448.0 | 11860.2 | 8633.3  |
| 80°   | 150.9   | 160.0   | 265.6   | 585.6   | 1379.5  | 2110.0  | 2264.0  | 7899.7  | 7739.7  | 4591.3  | 2511.5  |
| 82.5° | 45.3    | 48.3    | 105.7   | 332.0   | 721.5   | 1500.3  | 1527.4  | 3030.7  | 2861.7  | 987.1   | 639.9   |
| 85°   | 3.0     | 3.0     | 24.1    | 102.6   | 256.6   | 377.3   | 1017.3  | 987.1   | 875.4   | 247.5   | 283.8   |
| 87.5° | 0.0     | 0.0     | 3.0     | 3.0     | 6.0     | 12.1    | 108.7   | 181.1   | 184.1   | 45.3    | 126.8   |
| 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°    | 8095.9  | 8095.9  | 8095.9 | 8095.9 | 8095.9 | 8095.9 | 8095.9 | 8095.9 | 8095.9 | 8095.9 | 8095.9 |
| 2.5°  | 8123.1  | 8014.4  | 8005.4 | 7920.9 | 7836.3 | 7730.7 | 7606.9 | 7516.4 | 7453.0 | 7341.3 | 7320.2 |
| 5°    | 8111.0  | 7966.1  | 7830.3 | 7588.8 | 7320.2 | 7030.4 | 6776.8 | 6541.4 | 6393.4 | 6293.8 | 6251.6 |
| 7.5°  | 8086.9  | 7902.8  | 7588.8 | 7133.0 | 6683.2 | 6176.1 | 5780.7 | 5418.4 | 5170.9 | 5026.0 | 4962.6 |
| 10°   | 8068.8  | 7821.2  | 7311.1 | 6619.8 | 5922.5 | 5222.2 | 4621.5 | 4084.2 | 3785.4 | 3549.9 | 3510.7 |
| 12.5° | 8032.6  | 7703.5  | 6954.9 | 6019.1 | 5119.6 | 4189.8 | 3423.1 | 2765.1 | 2309.2 | 2104.0 | 2031.5 |
| 15°   | 7996.3  | 7579.8  | 6598.7 | 5385.2 | 4244.2 | 3097.1 | 2167.4 | 1533.5 | 1219.5 | 1122.9 | 1116.9 |
| 17.5° | 7990.3  | 7468.1  | 6212.3 | 4784.5 | 3326.5 | 2028.5 | 1234.6 | 993.1  | 926.7  | 902.6  | 902.6  |
| 20°   | 8008.4  | 7374.5  | 5832.0 | 4093.3 | 2424.0 | 1234.6 | 920.7  | 860.3  | 821.1  | 799.9  | 799.9  |
| 22.5° | 8026.5  | 7277.9  | 5466.7 | 3395.9 | 1608.9 | 902.6  | 812.0  | 760.7  | 715.4  | 691.3  | 679.2  |
| 25°   | 8038.6  | 7172.2  | 5062.2 | 2695.6 | 1050.5 | 784.8  | 712.4  | 646.0  | 591.6  | 561.5  | 561.5  |
| 27.5° | 8035.6  | 7045.5  | 4654.7 | 2010.4 | 815.0  | 697.3  | 609.8  | 540.3  | 486.0  | 452.8  | 455.8  |
| 30°   | 8011.4  | 6906.6  | 4232.1 | 1403.7 | 712.4  | 609.8  | 522.2  | 449.8  | 395.4  | 368.3  | 365.3  |
| 32.5° | 7993.3  | 6758.7  | 3743.1 | 987.1  | 639.9  | 534.3  | 443.7  | 374.3  | 329.0  | 307.9  | 304.9  |
| 35°   | 7972.2  | 6613.8  | 3278.2 | 751.6  | 576.6  | 461.8  | 374.3  | 317.0  | 280.7  | 262.6  | 262.6  |
| 37.5° | 7978.2  | 6462.9  | 2774.1 | 646.0  | 513.2  | 401.5  | 320.0  | 271.7  | 241.5  | 223.4  | 220.4  |
| 40°   | 8071.8  | 6372.3  | 2279.1 | 585.6  | 455.8  | 347.1  | 277.7  | 235.5  | 205.3  | 187.2  | 184.1  |
| 42.5° | 8304.2  | 6375.3  | 1805.1 | 540.3  | 404.5  | 295.8  | 241.5  | 202.2  | 175.1  | 153.9  | 150.9  |
| 45°   | 8769.1  | 6502.1  | 1385.5 | 492.0  | 350.2  | 256.6  | 208.3  | 172.1  | 144.9  | 126.8  | 123.8  |
| 47.5° | 9529.8  | 6879.4  | 1050.5 | 449.8  | 304.9  | 223.4  | 178.1  | 144.9  | 120.7  | 105.7  | 102.6  |
| 50°   | 10740.3 | 7561.6  | 827.1  | 398.5  | 256.6  | 193.2  | 150.9  | 120.7  | 99.6   | 84.5   | 81.5   |
| 52.5° | 12195.2 | 8585.0  | 709.4  | 353.2  | 220.4  | 169.0  | 129.8  | 99.6   | 81.5   | 69.4   | 66.4   |
| 55°   | 13867.5 | 9807.5  | 655.0  | 307.9  | 187.2  | 144.9  | 105.7  | 81.5   | 66.4   | 57.4   | 51.3   |
| 57.5° | 15401.0 | 10909.3 | 652.0  | 262.6  | 160.0  | 123.8  | 87.5   | 69.4   | 57.4   | 45.3   | 42.3   |
| 60°   | 16895.2 | 11830.0 | 612.8  | 217.3  | 138.9  | 102.6  | 75.5   | 57.4   | 48.3   | 39.2   | 36.2   |
| 62.5° | 18250.6 | 12578.6 | 513.2  | 175.1  | 117.7  | 84.5   | 63.4   | 51.3   | 42.3   | 33.2   | 33.2   |
| 65°   | 19953.1 | 13532.5 | 392.4  | 141.9  | 96.6   | 69.4   | 54.3   | 45.3   | 39.2   | 30.2   | 30.2   |
| 67.5° | 21712.9 | 14036.6 | 280.7  | 117.7  | 78.5   | 60.4   | 48.3   | 42.3   | 33.2   | 27.2   | 27.2   |
| 70°   | 19666.3 | 11860.2 | 202.2  | 96.6   | 66.4   | 51.3   | 42.3   | 39.2   | 33.2   | 27.2   | 24.1   |
| 72.5° | 15358.7 | 8551.8  | 150.9  | 75.5   | 57.4   | 48.3   | 39.2   | 36.2   | 30.2   | 24.1   | 24.1   |
| 75°   | 11389.3 | 4986.8  | 114.7  | 60.4   | 45.3   | 39.2   | 39.2   | 36.2   | 30.2   | 24.1   | 21.1   |
| 77.5° | 6191.2  | 1738.7  | 87.5   | 48.3   | 36.2   | 30.2   | 33.2   | 33.2   | 27.2   | 21.1   | 18.1   |
| 80°   | 1639.1  | 476.9   | 60.4   | 36.2   | 30.2   | 24.1   | 24.1   | 30.2   | 24.1   | 18.1   | 18.1   |
| 82.5° | 476.9   | 138.9   | 42.3   | 30.2   | 24.1   | 21.1   | 21.1   | 21.1   | 18.1   | 15.1   | 12.1   |
| 85°   | 232.4   | 51.3    | 30.2   | 24.1   | 21.1   | 18.1   | 15.1   | 15.1   | 12.1   | 9.1    | 9.1    |
| 87.5° | 102.6   | 21.1    | 24.1   | 21.1   | 21.1   | 15.1   | 12.1   | 9.1    | 9.1    | 6.0    | 3.0    |
| 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)