

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: P643722

Luminaire Tested: GWS-SA6F-740-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643722  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-740-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

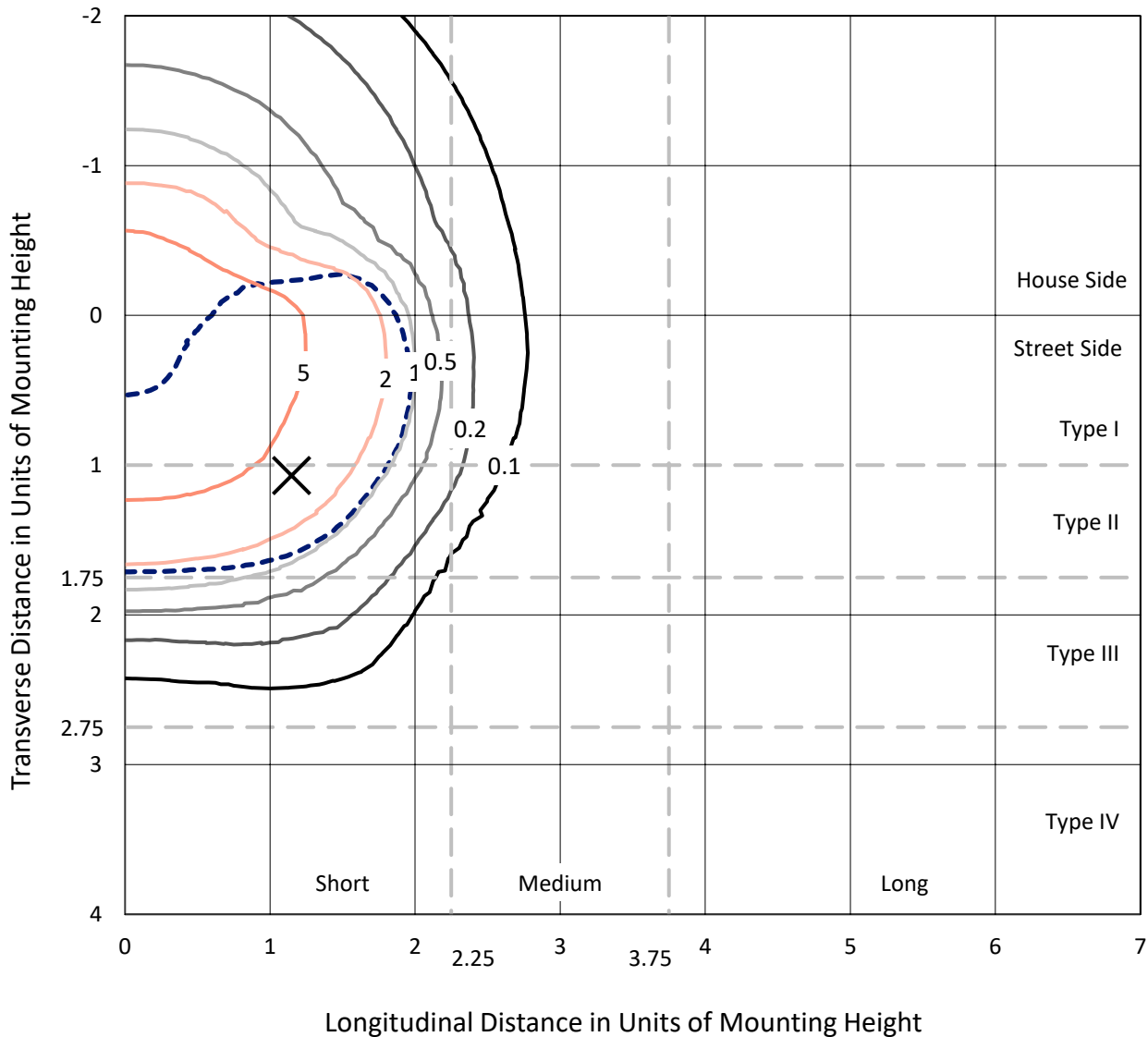
Lumens per Lamp: N/A  
Luminaire Lumens: 42479.1 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

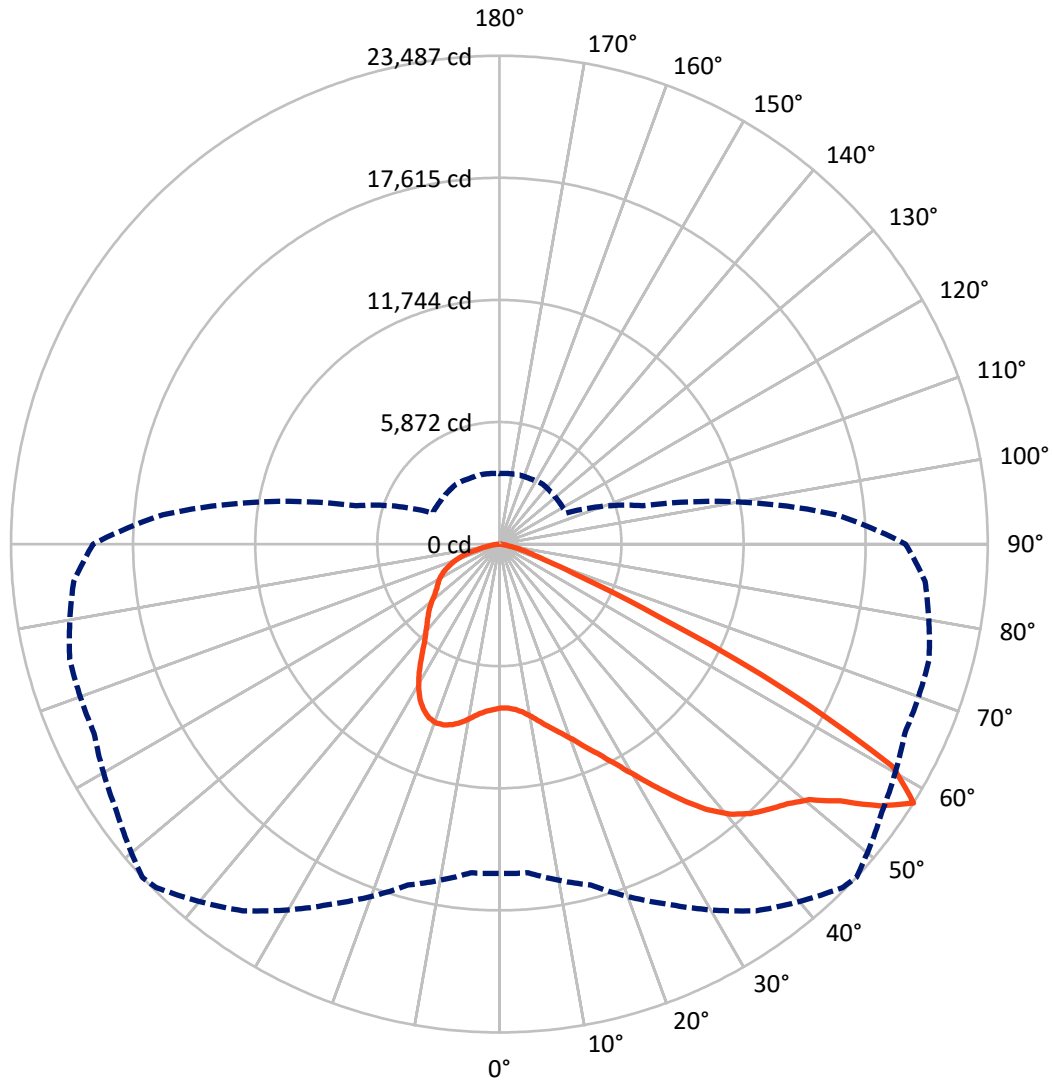
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13444.5  | 0.0    | 13444.5 |
|                    | % Fixture | 31.6     | 0.0    | 31.6    |
| <b>Street Side</b> | Lumens    | 29034.6  | 0.0    | 29034.6 |
|                    | % Fixture | 68.4     | 0.0    | 68.4    |
| <b>Total</b>       | Lumens    | 42479.1  | 0.0    | 42479.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 777.0   | 1.8       |
| 10°-20°   | 2555.6  | 6.0       |
| 20°-30°   | 4601.6  | 10.8      |
| 30°-40°   | 6950.2  | 16.4      |
| 40°-50°   | 9359.3  | 22.0      |
| 50°-60°   | 11246.5 | 26.5      |
| 60°-70°   | 5477.3  | 12.9      |
| 70°-80°   | 1349.4  | 3.2       |
| 80°-90°   | 162.2   | 0.4       |
| 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°    | 42479.1 | 100.0     |
| 0°-180°   | 42479.1 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P643722

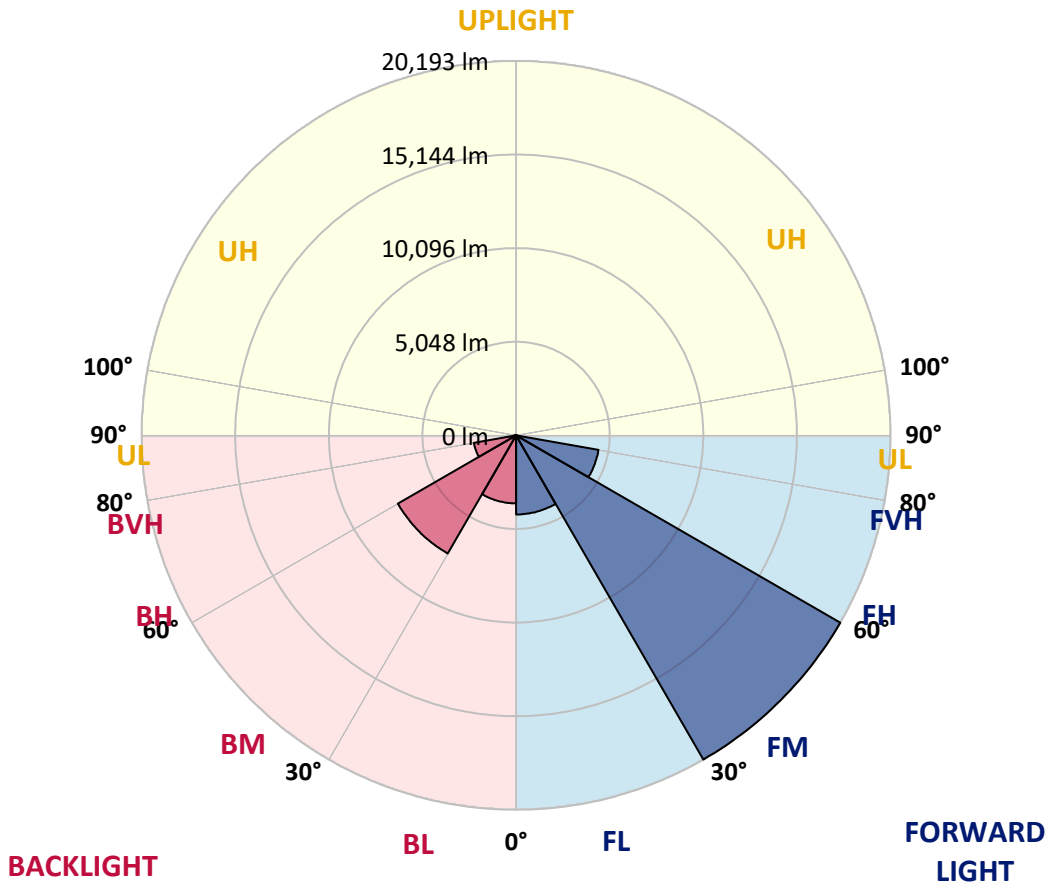
CATALOG NUMBER: GWS-SA6F-740-U-T3-W-GRSWH

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4266.8  | 10.0      |                         |      |         |
| FM (30°-60°)   | 20192.6 | 47.5      |                         |      |         |
| FH (60°-80°)   | 4514.3  | 10.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 61.0    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 3667.4  | 8.6       | B4/5000                 |      |         |
| BM (30°-60°)   | 7363.5  | 17.3      | B4/8500                 |      |         |
| BH (60°-80°)   | 2312.4  | 5.4       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 101.2   | 0.2       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G3**

Type II Short





REPORT NUMBER: P643722

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 47°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7877.8  | 7877.8  | 7877.8  | 7877.8  | 7877.8  | 7877.8  | 7877.8  | 7877.8  | 7877.8  | 7877.8  | 7877.8  |
| 2.5°  | 7863.5  | 7860.0  | 7860.0  | 7881.4  | 7881.4  | 7888.5  | 7899.2  | 7909.9  | 7913.5  | 7895.6  | 7856.4  |
| 5°    | 7949.2  | 7949.2  | 7949.2  | 7967.0  | 7967.0  | 7974.1  | 7988.4  | 7992.0  | 7988.4  | 7959.9  | 7920.6  |
| 7.5°  | 8084.7  | 8084.7  | 8088.3  | 8109.7  | 8127.6  | 8138.3  | 8163.2  | 8159.7  | 8149.0  | 8102.6  | 8052.6  |
| 10°   | 8306.0  | 8316.7  | 8327.4  | 8352.3  | 8388.0  | 8413.0  | 8430.8  | 8430.8  | 8416.6  | 8345.2  | 8281.0  |
| 12.5° | 8619.9  | 8634.2  | 8644.9  | 8666.3  | 8694.8  | 8737.7  | 8776.9  | 8776.9  | 8759.1  | 8669.9  | 8573.5  |
| 15°   | 8987.4  | 9001.7  | 8998.1  | 9005.3  | 9058.8  | 9119.4  | 9151.5  | 9172.9  | 9180.1  | 9055.2  | 8905.4  |
| 17.5° | 9408.4  | 9422.7  | 9408.4  | 9387.0  | 9394.1  | 9490.5  | 9547.6  | 9626.1  | 9672.4  | 9504.7  | 9265.7  |
| 20°   | 9790.2  | 9775.9  | 9775.9  | 9790.2  | 9811.6  | 9929.3  | 10015.0 | 10143.4 | 10200.5 | 9997.1  | 9626.1  |
| 22.5° | 10193.3 | 10225.5 | 10211.2 | 10211.2 | 10296.8 | 10493.0 | 10596.5 | 10764.2 | 10824.9 | 10560.8 | 10061.3 |
| 25°   | 10714.3 | 10742.8 | 10735.7 | 10742.8 | 10842.7 | 11121.0 | 11224.5 | 11534.9 | 11595.5 | 11217.3 | 10543.0 |
| 27.5° | 11285.1 | 11331.5 | 11352.9 | 11345.8 | 11506.3 | 11870.2 | 11998.7 | 12430.4 | 12541.0 | 11952.3 | 11056.8 |
| 30°   | 12027.2 | 12077.2 | 12095.0 | 12087.9 | 12277.0 | 12772.9 | 12919.2 | 13411.5 | 13568.5 | 12822.8 | 11709.7 |
| 32.5° | 12887.1 | 12937.0 | 12990.5 | 13011.9 | 13254.6 | 13761.2 | 13971.7 | 14481.9 | 14706.7 | 13829.0 | 12498.2 |
| 35°   | 13739.8 | 13782.6 | 13886.1 | 14053.8 | 14385.6 | 14902.9 | 15088.4 | 15591.5 | 15809.1 | 14874.4 | 13450.8 |
| 37.5° | 14681.7 | 14710.2 | 14799.4 | 15031.3 | 15509.4 | 16001.8 | 16187.3 | 16669.0 | 16694.0 | 15884.1 | 14528.3 |
| 40°   | 15712.8 | 15712.8 | 15695.0 | 15923.3 | 16422.8 | 16918.7 | 17079.3 | 17357.6 | 17211.3 | 16661.9 | 15577.2 |
| 42.5° | 16586.9 | 16572.7 | 16586.9 | 16801.0 | 17172.1 | 17575.2 | 17714.4 | 17660.9 | 17475.3 | 17257.7 | 16526.3 |
| 45°   | 17375.4 | 17386.1 | 17514.6 | 17678.7 | 17871.4 | 18110.4 | 18192.5 | 17889.2 | 17721.5 | 17735.8 | 17286.2 |
| 47.5° | 17910.6 | 17921.3 | 18221.0 | 18495.7 | 18613.5 | 18688.4 | 18652.7 | 18231.7 | 18146.1 | 18306.6 | 17871.4 |
| 50°   | 17982.0 | 18039.0 | 18556.4 | 19120.1 | 19412.7 | 19423.4 | 19323.5 | 18809.7 | 18784.7 | 18966.7 | 18185.3 |
| 52.5° | 17996.2 | 18053.3 | 18699.1 | 19715.9 | 20475.9 | 20636.4 | 20522.3 | 19987.1 | 19726.6 | 19544.7 | 18570.7 |
| 55°   | 17942.7 | 18006.9 | 18720.5 | 20115.5 | 21571.2 | 22213.4 | 22224.1 | 21467.7 | 20636.4 | 20515.1 | 19669.6 |
| 57.5° | 15841.2 | 15866.2 | 16972.3 | 19098.7 | 21528.4 | 23348.0 | 23487.1 | 22459.6 | 21510.6 | 21396.4 | 20550.8 |
| 60°   | 11035.4 | 11135.3 | 12337.6 | 15145.5 | 18085.4 | 21292.9 | 21742.5 | 21442.8 | 20807.7 | 19976.4 | 17632.3 |
| 62.5° | 5526.6  | 5612.2  | 6818.2  | 9472.6  | 12473.2 | 15006.4 | 15488.0 | 15805.6 | 15955.4 | 15063.5 | 12005.8 |
| 65°   | 2379.8  | 2444.0  | 3193.2  | 4948.6  | 7060.8  | 8284.5  | 8452.2  | 8834.0  | 9768.8  | 8716.3  | 6468.5  |
| 67.5° | 1591.3  | 1634.1  | 2015.8  | 3018.4  | 4160.1  | 4238.6  | 4213.6  | 4295.7  | 4499.1  | 3714.1  | 2922.1  |
| 70°   | 1220.2  | 1255.9  | 1512.8  | 2212.1  | 2989.9  | 2558.1  | 2422.6  | 2197.8  | 2386.9  | 2433.3  | 2369.1  |
| 72.5° | 884.8   | 913.4   | 1106.0  | 1509.2  | 1873.1  | 1634.1  | 1612.7  | 1726.8  | 1983.7  | 2055.1  | 2015.8  |
| 75°   | 570.9   | 585.1   | 702.9   | 827.7   | 966.9   | 1048.9  | 1091.8  | 1298.7  | 1559.1  | 1612.7  | 1566.3  |
| 77.5° | 381.8   | 392.5   | 460.3   | 531.6   | 549.4   | 553.0   | 567.3   | 660.1   | 838.4   | 938.3   | 927.6   |
| 80°   | 199.8   | 199.8   | 224.8   | 224.8   | 256.9   | 306.8   | 321.1   | 381.8   | 463.8   | 513.8   | 517.3   |
| 82.5° | 78.5    | 82.1    | 96.3    | 107.0   | 128.4   | 157.0   | 167.7   | 199.8   | 242.6   | 278.3   | 310.4   |
| 85°   | 32.1    | 35.7    | 39.2    | 46.4    | 57.1    | 71.4    | 74.9    | 85.6    | 114.2   | 142.7   | 160.6   |
| 87.5° | 0.0     | 0.0     | 3.6     | 3.6     | 7.1     | 10.7    | 10.7    | 14.3    | 17.8    | 32.1    | 42.8    |
| 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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CATALOG NUMBER: GWS-SA6F-740-U-T3-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7877.8  | 7877.8  | 7877.8  | 7877.8 | 7877.8 | 7877.8 | 7877.8 | 7877.8 | 7877.8 | 7877.8 | 7877.8 |
| 2.5°  | 7902.8  | 7856.4  | 7902.8  | 7917.1 | 7956.3 | 7970.6 | 7945.6 | 7942.0 | 7942.0 | 7906.4 | 7895.6 |
| 5°    | 7956.3  | 7913.5  | 7959.9  | 7981.3 | 8038.4 | 8074.0 | 8081.2 | 8109.7 | 8127.6 | 8113.3 | 8109.7 |
| 7.5°  | 8088.3  | 8034.8  | 8084.7  | 8116.9 | 8191.8 | 8248.9 | 8273.8 | 8338.1 | 8384.4 | 8377.3 | 8373.7 |
| 10°   | 8320.2  | 8248.9  | 8306.0  | 8359.5 | 8441.5 | 8509.3 | 8512.9 | 8548.6 | 8594.9 | 8580.7 | 8573.5 |
| 12.5° | 8587.8  | 8520.0  | 8584.2  | 8637.8 | 8734.1 | 8762.6 | 8716.3 | 8702.0 | 8709.1 | 8691.3 | 8677.0 |
| 15°   | 8916.1  | 8819.7  | 8876.8  | 8937.5 | 8991.0 | 8958.9 | 8859.0 | 8819.7 | 8816.2 | 8791.2 | 8776.9 |
| 17.5° | 9244.3  | 9123.0  | 9165.8  | 9197.9 | 9172.9 | 9073.0 | 8948.2 | 8880.4 | 8848.3 | 8798.3 | 8784.0 |
| 20°   | 9569.0  | 9415.6  | 9408.4  | 9383.4 | 9269.3 | 9087.3 | 8919.6 | 8784.0 | 8702.0 | 8634.2 | 8609.2 |
| 22.5° | 9940.0  | 9726.0  | 9618.9  | 9504.7 | 9255.0 | 8958.9 | 8705.6 | 8512.9 | 8380.9 | 8295.2 | 8266.7 |
| 25°   | 10339.6 | 10036.4 | 9815.2  | 9586.8 | 9112.3 | 8684.1 | 8330.9 | 8066.9 | 7909.9 | 7817.2 | 7785.0 |
| 27.5° | 10735.7 | 10318.2 | 9986.4  | 9597.5 | 8826.9 | 8288.1 | 7813.6 | 7456.8 | 7299.8 | 7224.9 | 7199.9 |
| 30°   | 11270.8 | 10692.8 | 10189.8 | 9458.4 | 8452.2 | 7738.7 | 7146.4 | 6786.0 | 6682.6 | 6629.1 | 6607.7 |
| 32.5° | 11888.1 | 11167.4 | 10460.9 | 9165.8 | 7974.1 | 7096.5 | 6472.1 | 6222.3 | 6151.0 | 6047.5 | 6043.9 |
| 35°   | 12701.5 | 11845.3 | 10717.8 | 8734.1 | 7371.2 | 6407.9 | 5954.7 | 5776.3 | 5647.9 | 5483.8 | 5469.5 |
| 37.5° | 13650.6 | 12690.8 | 10857.0 | 8184.6 | 6668.3 | 5840.6 | 5569.4 | 5369.6 | 5162.7 | 4945.0 | 4916.5 |
| 40°   | 14631.7 | 13679.1 | 10867.7 | 7535.3 | 5979.7 | 5465.9 | 5237.6 | 4977.1 | 4720.3 | 4477.7 | 4445.5 |
| 42.5° | 15662.9 | 14599.6 | 10678.6 | 6786.0 | 5416.0 | 5141.3 | 4909.4 | 4581.1 | 4292.1 | 4128.0 | 4110.2 |
| 45°   | 16583.4 | 15341.8 | 10250.4 | 5997.6 | 4998.6 | 4870.1 | 4574.0 | 4220.8 | 4067.3 | 3949.6 | 3924.6 |
| 47.5° | 17307.6 | 15834.1 | 9672.4  | 5291.1 | 4659.6 | 4591.8 | 4206.5 | 4024.5 | 3906.8 | 3799.8 | 3774.8 |
| 50°   | 17664.4 | 15944.7 | 8919.6  | 4716.7 | 4345.6 | 4263.6 | 3999.6 | 3860.4 | 3781.9 | 3696.3 | 3674.9 |
| 52.5° | 18106.8 | 16069.6 | 8270.3  | 4235.0 | 4038.8 | 3928.2 | 3828.3 | 3717.7 | 3660.6 | 3607.1 | 3589.3 |
| 55°   | 19123.7 | 16540.5 | 7927.8  | 3849.7 | 3746.2 | 3696.3 | 3682.0 | 3589.3 | 3571.4 | 3535.7 | 3503.6 |
| 57.5° | 19537.5 | 16237.3 | 7117.9  | 3535.7 | 3514.3 | 3521.5 | 3557.1 | 3471.5 | 3453.7 | 3410.9 | 3389.5 |
| 60°   | 15712.8 | 12273.4 | 4820.2  | 3264.6 | 3321.7 | 3368.0 | 3403.7 | 3318.1 | 3293.1 | 3286.0 | 3257.4 |
| 62.5° | 10068.5 | 7549.6  | 3364.5  | 3011.3 | 3096.9 | 3154.0 | 3175.4 | 3093.3 | 3075.5 | 3132.6 | 3136.1 |
| 65°   | 5241.2  | 4113.7  | 2729.4  | 2740.1 | 2811.5 | 2897.1 | 2939.9 | 2911.4 | 2904.2 | 2964.9 | 2968.5 |
| 67.5° | 2675.9  | 2515.3  | 2379.8  | 2419.0 | 2476.1 | 2586.7 | 2686.6 | 2811.5 | 2854.3 | 2861.4 | 2865.0 |
| 70°   | 2279.9  | 2208.5  | 2140.7  | 2165.7 | 2226.3 | 2287.0 | 2383.3 | 2444.0 | 2372.6 | 2354.8 | 2347.6 |
| 72.5° | 1940.9  | 1887.4  | 1855.3  | 1883.8 | 1915.9 | 1905.2 | 1876.7 | 1905.2 | 1915.9 | 1919.5 | 1923.1 |
| 75°   | 1509.2  | 1470.0  | 1445.0  | 1448.5 | 1448.5 | 1409.3 | 1355.8 | 1323.7 | 1288.0 | 1259.5 | 1259.5 |
| 77.5° | 924.1   | 931.2   | 956.2   | 952.6  | 949.0  | 934.8  | 881.3  | 852.7  | 767.1  | 742.1  | 742.1  |
| 80°   | 528.0   | 538.7   | 563.7   | 570.9  | 570.9  | 553.0  | 499.5  | 467.4  | 428.1  | 410.3  | 406.7  |
| 82.5° | 321.1   | 335.4   | 349.6   | 356.8  | 360.4  | 338.9  | 292.6  | 267.6  | 246.2  | 228.3  | 228.3  |
| 85°   | 167.7   | 174.8   | 189.1   | 192.7  | 182.0  | 160.6  | 135.6  | 124.9  | 103.5  | 99.9   | 99.9   |
| 87.5° | 46.4    | 49.9    | 57.1    | 46.4   | 42.8   | 32.1   | 17.8   | 14.3   | 7.1    | 3.6    | 3.6    |
| 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)