

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: P636516

Luminaire Tested: GWS-SA3F-830-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636516  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3F-830-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

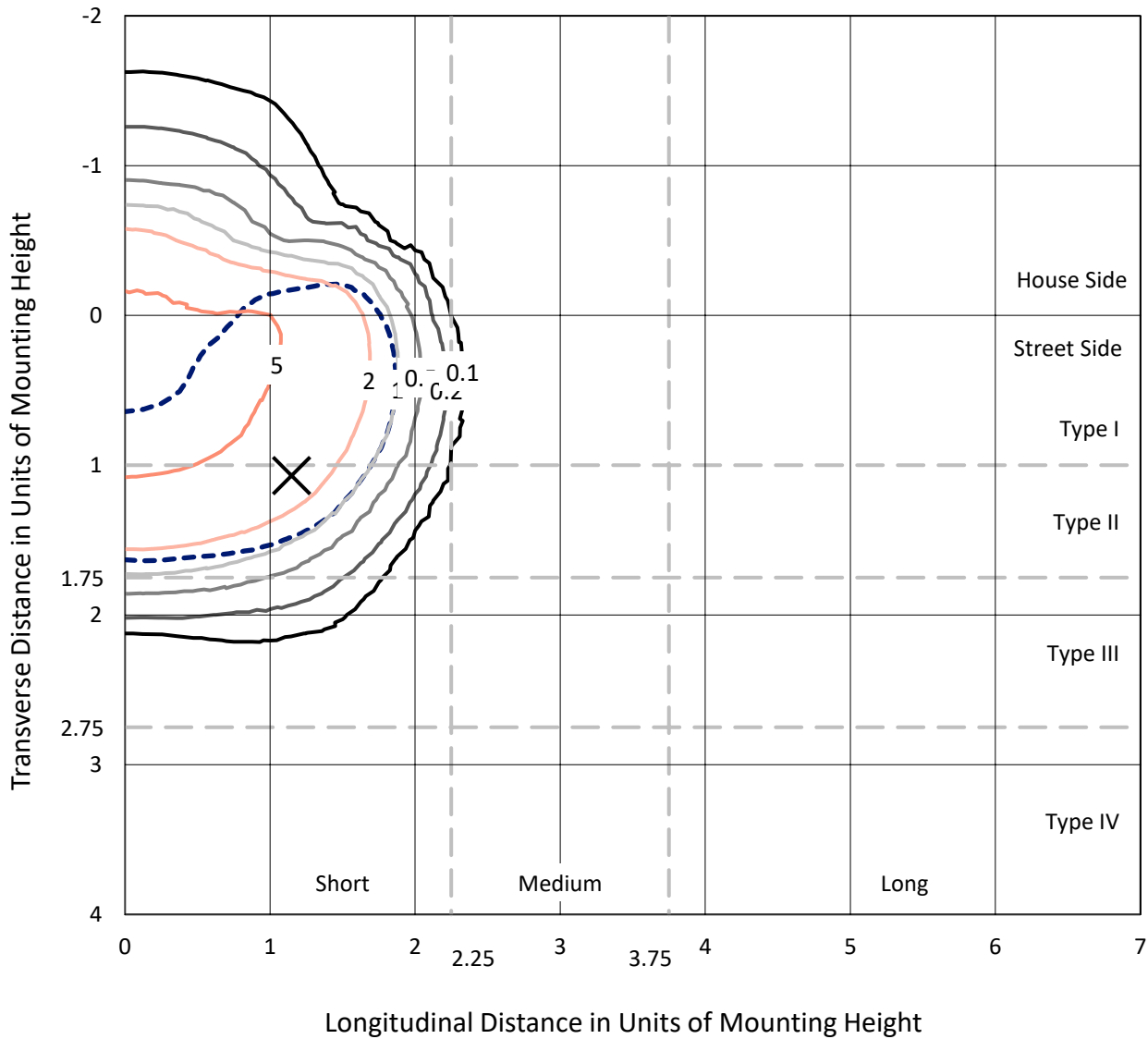
Lumens per Lamp: N/A  
Luminaire Lumens: 11994.1 lumens  
Efficiency: N/A  
Efficacy: 65.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

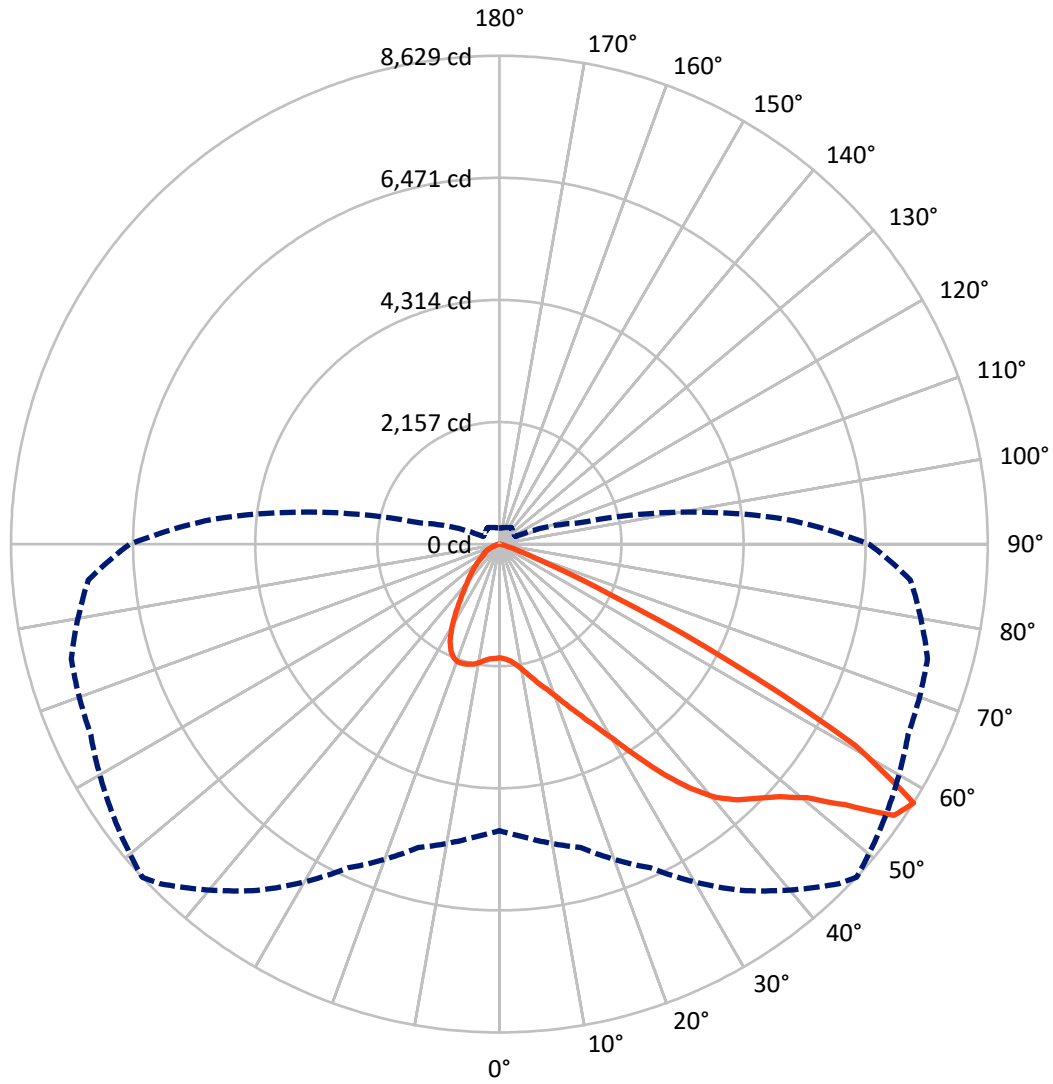
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.1 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    | 2602.1   | 0.0    | 2602.1  |
|                    | % Fixture | 21.7     | 0.0    | 21.7    |
| <b>Street Side</b> | Lumens    | 9392.0   | 0.0    | 9392.0  |
|                    | % Fixture | 78.3     | 0.0    | 78.3    |
| <b>Total</b>       | Lumens    | 11994.1  | 0.0    | 11994.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 199.8   | 1.7       |
| 10°-20°   | 674.0   | 5.6       |
| 20°-30°   | 1251.5  | 10.4      |
| 30°-40°   | 2003.4  | 16.7      |
| 40°-50°   | 2928.5  | 24.4      |
| 50°-60°   | 3614.3  | 30.1      |
| 60°-70°   | 1207.7  | 10.1      |
| 70°-80°   | 112.5   | 0.9       |
| 80°-90°   | 2.3     | 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°    | 11994.1 | 100.0     |
| 0°-180°   | 11994.1 | 100.0     |

**Coefficient of Utilization**



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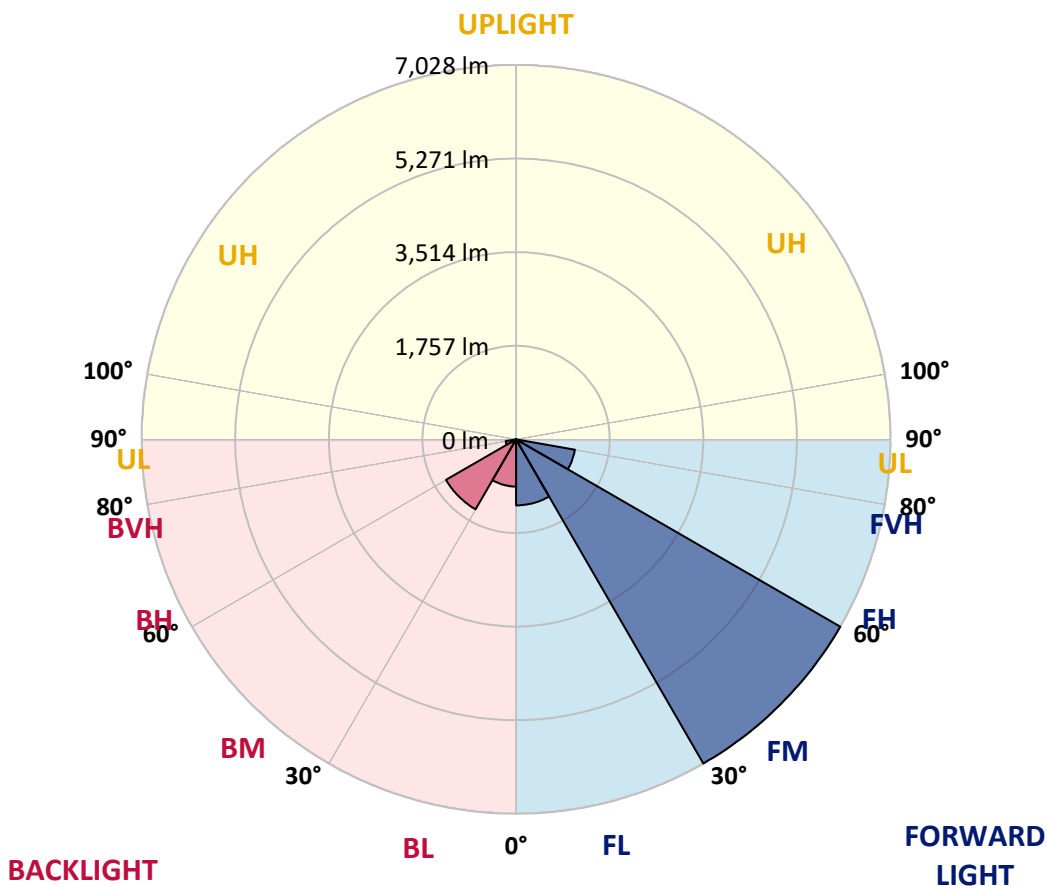
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1239.6 | 10.3      |                         |      |         |
| FM (30°-60°)   | 7028.4 | 58.6      |                         |      |         |
| FH (60°-80°)   | 1122.4 | 9.4       |                         |      | G1/1800 |
| FVH (80°-90°)  | 1.6    | 0.0       |                         |      | G0/10   |
| BL (0°-30°)    | 885.7  | 7.4       | B2/1000                 |      |         |
| BM (30°-60°)   | 1517.8 | 12.7      | B2/2500                 |      |         |
| BH (60°-80°)   | 197.8  | 1.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 0.7    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 47°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2007.8 | 2007.8 | 2007.8 | 2007.8 | 2007.8 | 2007.8 | 2007.8 | 2007.8 | 2007.8 | 2007.8 | 2007.8 |
| 2.5°  | 2028.7 | 2027.3 | 2025.9 | 2034.3 | 2031.5 | 2030.1 | 2032.9 | 2032.9 | 2032.9 | 2024.5 | 2007.8 |
| 5°    | 2077.4 | 2077.4 | 2076.1 | 2084.4 | 2077.4 | 2073.3 | 2074.7 | 2074.7 | 2069.1 | 2053.8 | 2032.9 |
| 7.5°  | 2154.0 | 2151.2 | 2148.5 | 2156.8 | 2149.8 | 2148.5 | 2151.2 | 2142.9 | 2133.1 | 2108.1 | 2078.8 |
| 10°   | 2264.0 | 2264.0 | 2259.8 | 2268.2 | 2262.6 | 2259.8 | 2259.8 | 2254.3 | 2236.2 | 2197.2 | 2154.0 |
| 12.5° | 2415.8 | 2408.8 | 2399.1 | 2392.1 | 2389.3 | 2387.9 | 2389.3 | 2381.0 | 2361.5 | 2311.4 | 2251.5 |
| 15°   | 2581.5 | 2575.9 | 2560.6 | 2549.5 | 2534.1 | 2531.4 | 2539.7 | 2532.8 | 2513.3 | 2445.0 | 2360.1 |
| 17.5° | 2790.3 | 2797.3 | 2758.3 | 2734.7 | 2690.1 | 2687.3 | 2690.1 | 2701.2 | 2687.3 | 2599.6 | 2475.7 |
| 20°   | 2968.6 | 2974.1 | 2944.9 | 2928.2 | 2887.8 | 2869.7 | 2875.3 | 2893.4 | 2878.1 | 2775.0 | 2602.4 |
| 22.5° | 3159.3 | 3166.3 | 3135.7 | 3100.9 | 3082.7 | 3082.7 | 3103.6 | 3128.7 | 3107.8 | 2972.8 | 2747.2 |
| 25°   | 3387.7 | 3393.3 | 3368.2 | 3322.2 | 3290.2 | 3330.6 | 3361.2 | 3428.1 | 3393.3 | 3209.5 | 2918.4 |
| 27.5° | 3649.5 | 3650.8 | 3614.6 | 3567.3 | 3550.6 | 3625.8 | 3656.4 | 3759.5 | 3745.5 | 3475.4 | 3099.5 |
| 30°   | 3929.3 | 3930.7 | 3922.4 | 3890.3 | 3875.0 | 3973.9 | 4015.7 | 4164.6 | 4154.9 | 3805.4 | 3345.9 |
| 32.5° | 4220.3 | 4220.3 | 4235.6 | 4232.9 | 4251.0 | 4412.5 | 4479.3 | 4649.2 | 4639.4 | 4209.2 | 3652.2 |
| 35°   | 4512.7 | 4514.1 | 4540.6 | 4607.4 | 4682.6 | 4897.0 | 4984.8 | 5190.8 | 5168.5 | 4692.4 | 4043.5 |
| 37.5° | 4845.5 | 4831.6 | 4867.8 | 4968.0 | 5135.1 | 5383.0 | 5466.5 | 5662.8 | 5637.8 | 5186.6 | 4554.5 |
| 40°   | 5246.5 | 5221.5 | 5221.5 | 5338.4 | 5527.8 | 5813.2 | 5884.2 | 5981.7 | 5896.8 | 5586.3 | 5055.8 |
| 42.5° | 5689.3 | 5665.6 | 5635.0 | 5738.0 | 5896.8 | 6119.6 | 6178.0 | 6151.6 | 6082.0 | 5963.6 | 5626.6 |
| 45°   | 6137.7 | 6101.4 | 6122.3 | 6185.0 | 6276.9 | 6382.7 | 6405.0 | 6282.5 | 6250.4 | 6283.9 | 6098.7 |
| 47.5° | 6478.8 | 6453.7 | 6505.2 | 6593.0 | 6668.2 | 6683.5 | 6668.2 | 6498.3 | 6495.5 | 6613.8 | 6425.9 |
| 50°   | 6593.0 | 6595.7 | 6737.8 | 6929.9 | 7051.1 | 7063.6 | 7042.7 | 6847.8 | 6821.3 | 6856.1 | 6602.7 |
| 52.5° | 6604.1 | 6615.2 | 6822.7 | 7188.9 | 7518.9 | 7669.3 | 7652.6 | 7442.3 | 7183.3 | 7145.7 | 6870.0 |
| 55°   | 6335.4 | 6400.8 | 6690.4 | 7225.1 | 7926.9 | 8407.2 | 8462.9 | 8060.5 | 7676.2 | 7644.2 | 7445.1 |
| 57.5° | 5064.1 | 5197.8 | 5547.3 | 6308.9 | 7471.6 | 8483.8 | 8628.6 | 8339.0 | 7967.3 | 7830.8 | 7290.5 |
| 60°   | 3027.1 | 3192.7 | 3528.3 | 4462.6 | 5686.5 | 6973.1 | 7222.3 | 7262.7 | 7091.4 | 6697.4 | 5593.2 |
| 62.5° | 1299.1 | 1285.2 | 1698.7 | 2414.4 | 3382.1 | 4432.0 | 4544.8 | 4720.2 | 4869.2 | 4457.0 | 3394.6 |
| 65°   | 445.6  | 484.6  | 673.9  | 1088.8 | 1693.1 | 2058.0 | 2158.2 | 2315.5 | 2527.2 | 2085.8 | 1243.4 |
| 67.5° | 275.7  | 292.4  | 388.5  | 643.3  | 913.4  | 899.5  | 854.9  | 829.9  | 807.6  | 552.8  | 341.1  |
| 70°   | 200.5  | 214.4  | 272.9  | 442.8  | 614.0  | 431.6  | 374.6  | 303.5  | 337.0  | 310.5  | 242.3  |
| 72.5° | 135.1  | 146.2  | 188.0  | 268.7  | 314.7  | 210.3  | 194.9  | 221.4  | 267.3  | 254.8  | 197.7  |
| 75°   | 80.8   | 87.7   | 107.2  | 130.9  | 128.1  | 108.6  | 110.0  | 155.9  | 204.7  | 190.8  | 140.6  |
| 77.5° | 55.7   | 58.5   | 71.0   | 84.9   | 62.7   | 33.4   | 30.6   | 43.2   | 69.6   | 69.6   | 47.3   |
| 80°   | 13.9   | 18.1   | 18.1   | 11.1   | 9.7    | 8.4    | 8.4    | 12.5   | 19.5   | 13.9   | 7.0    |
| 82.5° | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 2.8    | 2.8    | 2.8    | 2.8    |
| 85°   | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 2.8    | 2.8    | 2.8    |
| 87.5° | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 2.8    | 2.8    |
| 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°    | 2007.8 | 2007.8 | 2007.8 | 2007.8 | 2007.8 | 2007.8 | 2007.8 | 2007.8 | 2007.8 | 2007.8 | 2007.8 |
| 2.5°  | 2017.6 | 2000.9 | 2012.0 | 2009.2 | 2017.6 | 2020.4 | 2007.8 | 2005.0 | 2006.4 | 1989.7 | 1984.2 |
| 5°    | 2037.1 | 2017.6 | 2023.1 | 2017.6 | 2027.3 | 2035.7 | 2031.5 | 2037.1 | 2044.0 | 2031.5 | 2025.9 |
| 7.5°  | 2078.8 | 2059.3 | 2058.0 | 2049.6 | 2063.5 | 2069.1 | 2067.7 | 2083.0 | 2096.9 | 2088.6 | 2080.2 |
| 10°   | 2151.2 | 2124.8 | 2122.0 | 2115.0 | 2119.2 | 2123.4 | 2108.1 | 2110.9 | 2123.4 | 2113.6 | 2109.5 |
| 12.5° | 2240.4 | 2208.3 | 2201.4 | 2184.7 | 2184.7 | 2163.8 | 2130.4 | 2123.4 | 2133.1 | 2126.2 | 2119.2 |
| 15°   | 2336.4 | 2293.3 | 2282.1 | 2252.9 | 2225.0 | 2186.1 | 2151.2 | 2142.9 | 2149.8 | 2141.5 | 2135.9 |
| 17.5° | 2443.6 | 2394.9 | 2358.7 | 2307.2 | 2245.9 | 2200.0 | 2161.0 | 2142.9 | 2131.7 | 2115.0 | 2113.6 |
| 20°   | 2549.5 | 2485.4 | 2424.1 | 2342.0 | 2261.2 | 2191.6 | 2127.6 | 2080.2 | 2039.9 | 2014.8 | 2005.0 |
| 22.5° | 2672.0 | 2577.3 | 2478.5 | 2362.9 | 2247.3 | 2141.5 | 2028.7 | 1948.0 | 1878.3 | 1854.7 | 1843.5 |
| 25°   | 2802.9 | 2680.3 | 2532.8 | 2382.4 | 2200.0 | 2030.1 | 1876.9 | 1757.2 | 1665.3 | 1634.7 | 1622.1 |
| 27.5° | 2947.7 | 2779.2 | 2588.5 | 2378.2 | 2102.5 | 1871.4 | 1668.1 | 1519.1 | 1428.6 | 1400.7 | 1410.5 |
| 30°   | 3131.5 | 2907.3 | 2658.1 | 2335.0 | 1956.3 | 1648.6 | 1410.5 | 1285.2 | 1216.9 | 1190.5 | 1191.9 |
| 32.5° | 3376.5 | 3091.1 | 2759.7 | 2243.1 | 1768.3 | 1395.2 | 1186.3 | 1094.4 | 1048.5 | 1013.7 | 1010.9 |
| 35°   | 3727.4 | 3371.0 | 2854.4 | 2095.5 | 1540.0 | 1169.6 | 1017.8 | 945.4  | 881.4  | 841.0  | 848.0  |
| 37.5° | 4147.9 | 3723.2 | 2905.9 | 1896.4 | 1283.8 | 994.2  | 891.1  | 817.3  | 744.9  | 685.1  | 692.0  |
| 40°   | 4646.4 | 4184.1 | 2901.7 | 1634.7 | 1049.9 | 874.4  | 785.3  | 699.0  | 608.5  | 554.2  | 559.7  |
| 42.5° | 5202.0 | 4619.9 | 2811.2 | 1357.6 | 870.2  | 777.0  | 683.7  | 575.1  | 487.3  | 453.9  | 455.3  |
| 45°   | 5683.7 | 4973.6 | 2652.5 | 1070.7 | 732.4  | 682.3  | 577.8  | 466.5  | 427.5  | 403.8  | 402.4  |
| 47.5° | 6040.2 | 5232.6 | 2425.5 | 842.4  | 621.0  | 595.9  | 474.8  | 417.7  | 387.1  | 367.6  | 364.8  |
| 50°   | 6239.3 | 5323.1 | 2174.9 | 660.0  | 524.9  | 505.4  | 424.7  | 378.7  | 357.8  | 345.3  | 342.5  |
| 52.5° | 6506.6 | 5431.7 | 1995.3 | 520.8  | 440.0  | 413.5  | 391.3  | 352.3  | 338.4  | 328.6  | 324.4  |
| 55°   | 6929.9 | 5642.0 | 1839.3 | 413.5  | 366.2  | 360.6  | 369.0  | 337.0  | 328.6  | 313.3  | 307.7  |
| 57.5° | 6531.7 | 5068.3 | 1428.6 | 320.2  | 309.1  | 330.0  | 356.5  | 321.6  | 300.8  | 286.8  | 281.3  |
| 60°   | 4596.3 | 3369.6 | 718.5  | 257.6  | 275.7  | 309.1  | 335.6  | 291.0  | 270.1  | 272.9  | 270.1  |
| 62.5° | 2534.1 | 1686.2 | 323.0  | 215.8  | 239.5  | 272.9  | 286.8  | 252.0  | 238.1  | 261.8  | 265.9  |
| 65°   | 828.5  | 573.7  | 186.6  | 167.1  | 189.4  | 222.8  | 247.8  | 239.5  | 236.7  | 264.6  | 272.9  |
| 67.5° | 254.8  | 189.4  | 126.7  | 119.7  | 130.9  | 164.3  | 208.9  | 259.0  | 278.5  | 286.8  | 291.0  |
| 70°   | 190.8  | 149.0  | 108.6  | 101.6  | 107.2  | 125.3  | 176.8  | 215.8  | 203.3  | 204.7  | 201.9  |
| 72.5° | 153.2  | 118.4  | 93.3   | 89.1   | 89.1   | 86.3   | 93.3   | 117.0  | 132.3  | 139.2  | 139.2  |
| 75°   | 107.2  | 83.5   | 71.0   | 65.4   | 51.5   | 41.8   | 37.6   | 37.6   | 33.4   | 32.0   | 30.6   |
| 77.5° | 36.2   | 30.6   | 27.8   | 22.3   | 15.3   | 12.5   | 11.1   | 9.7    | 7.0    | 4.2    | 2.8    |
| 80°   | 5.6    | 4.2    | 2.8    | 2.8    | 2.8    | 1.4    | 1.4    | 1.4    | 0.0    | 0.0    | 0.0    |
| 82.5° | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 1.4    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 1.4    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 2.8    | 2.8    | 2.8    | 2.8    | 1.4    | 1.4    | 1.4    | 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)