

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: P637368

Luminaire Tested: GWS-SA4C-760-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637368  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-760-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

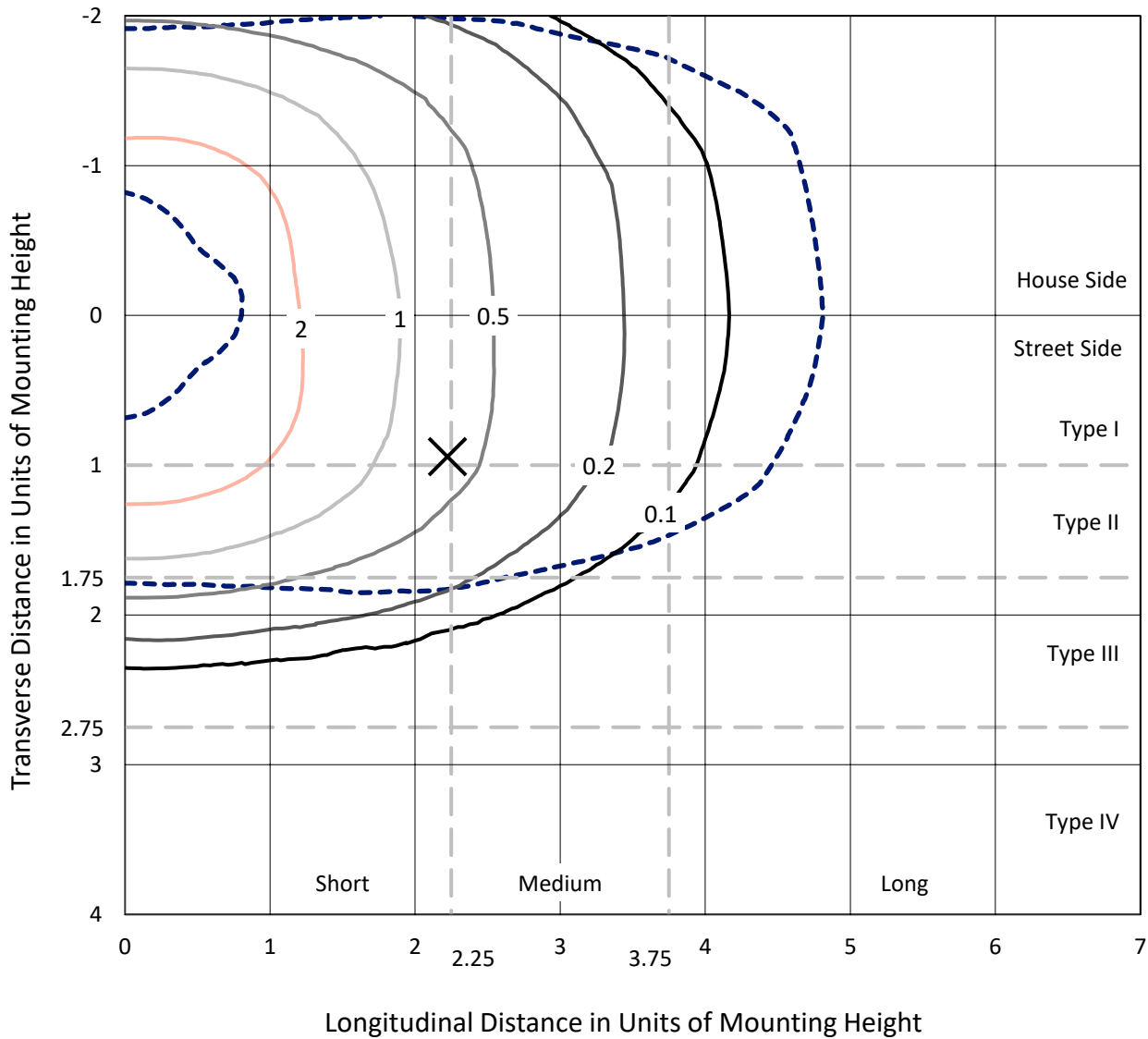
Lumens per Lamp: N/A  
Luminaire Lumens: 20160.6 lumens  
Efficiency: N/A  
Efficacy: 156.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): 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

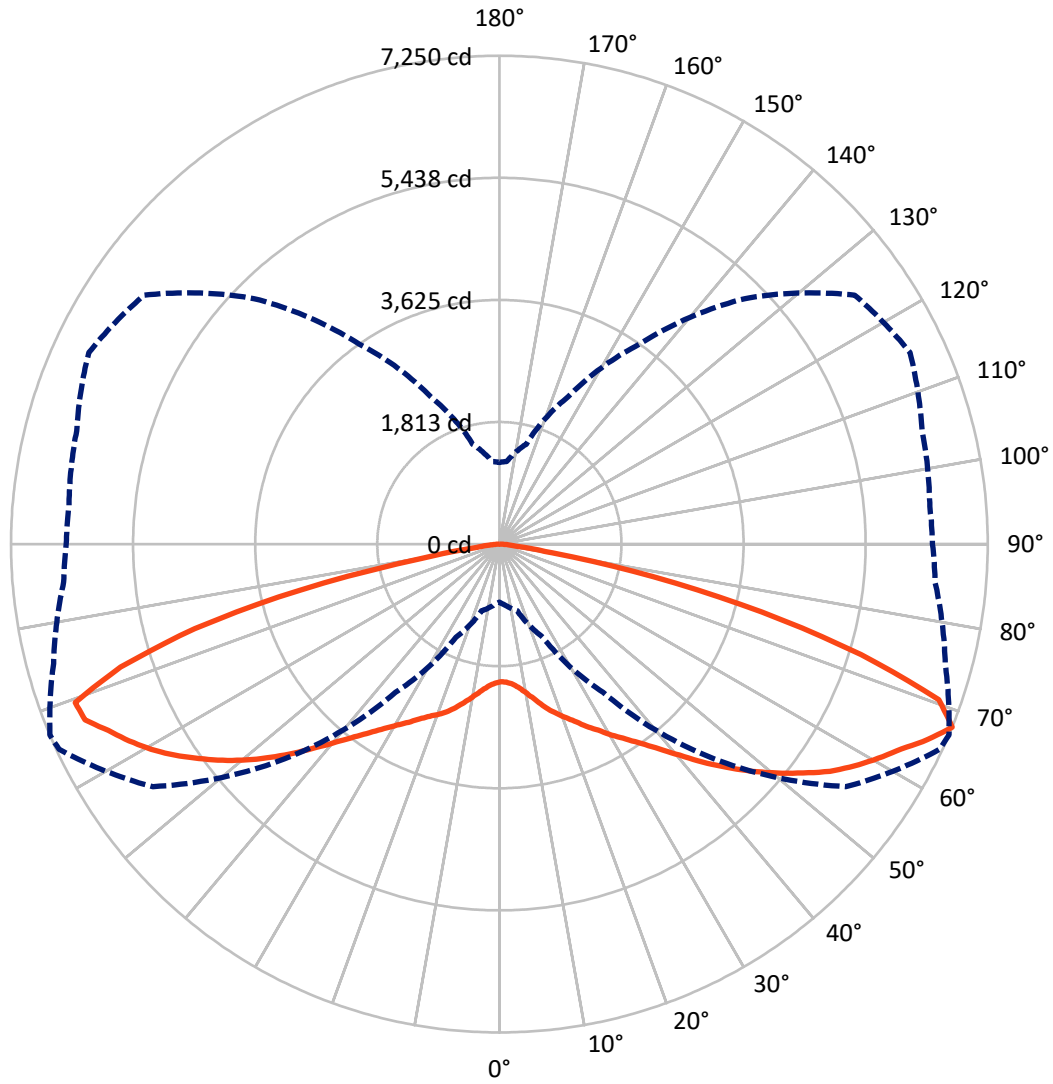
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9969.0   | 0.0    | 9969.0  |
|                    | % Fixture | 49.4     | 0.0    | 49.4    |
| <b>Street Side</b> | Lumens    | 10191.5  | 0.0    | 10191.5 |
|                    | % Fixture | 50.6     | 0.0    | 50.6    |
| <b>Total</b>       | Lumens    | 20160.6  | 0.0    | 20160.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 200.3   | 1.0       |
| 10°-20°   | 676.6   | 3.4       |
| 20°-30°   | 1327.6  | 6.6       |
| 30°-40°   | 2261.7  | 11.2      |
| 40°-50°   | 3631.9  | 18.0      |
| 50°-60°   | 4934.9  | 24.5      |
| 60°-70°   | 4720.6  | 23.4      |
| 70°-80°   | 2244.3  | 11.1      |
| 80°-90°   | 162.6   | 0.8       |
| 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°    | 20160.6 | 100.0     |
| 0°-180°   | 20160.6 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P637368

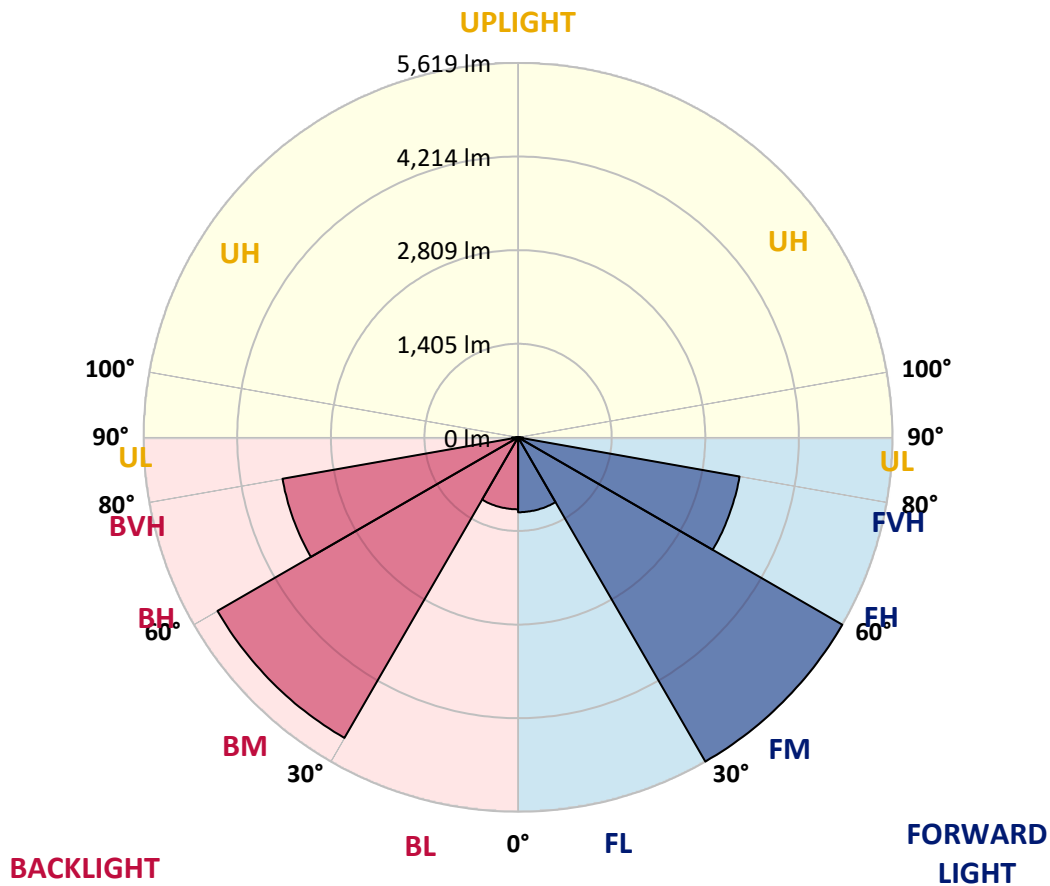
CATALOG NUMBER: GWS-SA4C-760-U-RW-W

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1124.1 | 5.6       |                         |      |         |
| FM (30°-60°)   | 5618.9 | 27.9      |                         |      |         |
| FH (60°-80°)   | 3375.4 | 16.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 73.1   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 1080.4 | 5.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 5209.6 | 25.8      | B4/8500                 |      |         |
| BH (60°-80°)   | 3589.6 | 17.8      | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 89.5   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2041.4 | 2041.4 | 2041.4 | 2041.4 | 2041.4 | 2041.4 | 2041.4 | 2041.4 | 2041.4 | 2041.4 | 2041.4 |
| 2.5°  | 1999.3 | 2002.1 | 2006.3 | 2014.7 | 2023.1 | 2035.8 | 2048.4 | 2047.0 | 2052.6 | 2056.8 | 2061.0 |
| 5°    | 1988.0 | 1990.8 | 1997.9 | 2009.1 | 2021.7 | 2042.8 | 2069.5 | 2080.7 | 2089.1 | 2104.6 | 2118.6 |
| 7.5°  | 2011.9 | 2017.5 | 2027.3 | 2042.8 | 2062.4 | 2089.1 | 2125.6 | 2145.3 | 2157.9 | 2186.0 | 2209.8 |
| 10°   | 2044.2 | 2051.2 | 2070.9 | 2100.3 | 2129.8 | 2170.5 | 2216.9 | 2246.4 | 2254.8 | 2291.3 | 2336.2 |
| 12.5° | 2075.1 | 2083.5 | 2115.8 | 2169.1 | 2222.5 | 2277.2 | 2332.0 | 2368.5 | 2371.3 | 2420.4 | 2471.0 |
| 15°   | 2124.2 | 2131.2 | 2174.8 | 2243.5 | 2325.0 | 2400.8 | 2468.2 | 2493.5 | 2504.7 | 2539.8 | 2603.0 |
| 17.5° | 2232.3 | 2240.7 | 2296.9 | 2371.3 | 2456.9 | 2537.0 | 2604.4 | 2625.4 | 2625.4 | 2654.9 | 2706.9 |
| 20°   | 2348.8 | 2357.3 | 2431.7 | 2527.1 | 2631.0 | 2712.5 | 2764.4 | 2744.8 | 2737.7 | 2746.2 | 2782.7 |
| 22.5° | 2479.4 | 2494.9 | 2566.5 | 2677.4 | 2805.1 | 2904.8 | 2931.5 | 2872.5 | 2852.9 | 2833.2 | 2841.6 |
| 25°   | 2646.5 | 2664.7 | 2734.9 | 2852.9 | 2977.8 | 3083.1 | 3098.6 | 3007.3 | 2996.1 | 2927.3 | 2902.0 |
| 27.5° | 2838.8 | 2852.9 | 2939.9 | 3056.4 | 3173.0 | 3261.4 | 3278.3 | 3166.0 | 3128.0 | 3032.6 | 2973.6 |
| 30°   | 3087.3 | 3100.0 | 3175.8 | 3290.9 | 3392.0 | 3453.8 | 3474.8 | 3320.4 | 3290.9 | 3144.9 | 3053.6 |
| 32.5° | 3358.3 | 3363.9 | 3441.1 | 3552.0 | 3641.9 | 3700.9 | 3671.4 | 3491.7 | 3448.2 | 3283.9 | 3158.9 |
| 35°   | 3668.6 | 3668.6 | 3768.3 | 3858.1 | 3929.7 | 3946.6 | 3890.4 | 3685.4 | 3634.9 | 3456.6 | 3300.7 |
| 37.5° | 3973.2 | 3981.7 | 4074.3 | 4181.0 | 4244.2 | 4241.4 | 4138.9 | 3914.3 | 3856.7 | 3663.0 | 3490.3 |
| 40°   | 4303.2 | 4321.4 | 4414.1 | 4533.4 | 4593.8 | 4585.4 | 4428.1 | 4178.2 | 4119.2 | 3890.4 | 3721.9 |
| 42.5° | 4606.4 | 4635.9 | 4744.0 | 4866.2 | 4932.1 | 4926.5 | 4762.3 | 4481.5 | 4423.9 | 4165.6 | 3997.1 |
| 45°   | 4847.9 | 4878.8 | 5013.6 | 5183.5 | 5288.8 | 5278.9 | 5113.3 | 4796.0 | 4725.8 | 4454.8 | 4269.5 |
| 47.5° | 5059.9 | 5092.2 | 5242.4 | 5422.1 | 5589.2 | 5606.1 | 5454.4 | 5113.3 | 5038.9 | 4765.1 | 4555.9 |
| 50°   | 5222.8 | 5238.2 | 5406.7 | 5603.2 | 5797.0 | 5891.1 | 5759.1 | 5432.0 | 5342.1 | 5071.1 | 4835.3 |
| 52.5° | 5210.1 | 5231.2 | 5439.0 | 5705.7 | 5965.5 | 6119.9 | 6028.6 | 5732.4 | 5645.4 | 5350.5 | 5120.3 |
| 55°   | 4953.2 | 4974.3 | 5221.4 | 5610.3 | 6059.5 | 6287.0 | 6277.2 | 6018.8 | 5955.6 | 5635.5 | 5416.5 |
| 57.5° | 4578.3 | 4624.7 | 4870.4 | 5290.2 | 5936.0 | 6420.4 | 6459.7 | 6280.0 | 6214.0 | 5914.9 | 5709.9 |
| 60°   | 3907.2 | 3969.0 | 4252.6 | 4797.4 | 5540.1 | 6375.4 | 6654.8 | 6500.4 | 6459.7 | 6174.7 | 5975.3 |
| 62.5° | 2838.8 | 2883.8 | 3261.4 | 3976.0 | 4953.2 | 6055.3 | 6819.1 | 6727.8 | 6696.9 | 6407.7 | 6215.4 |
| 65°   | 1700.2 | 1802.7 | 2106.0 | 2812.2 | 3995.7 | 5451.6 | 6729.2 | 7025.5 | 6993.2 | 6647.8 | 6420.4 |
| 67.5° | 860.6  | 907.0  | 1026.3 | 1524.7 | 2687.2 | 4511.0 | 6278.6 | 7210.8 | 7250.1 | 6852.8 | 6493.4 |
| 70°   | 533.5  | 546.1  | 579.8  | 752.5  | 1342.2 | 2963.8 | 5134.3 | 6727.8 | 6920.2 | 6820.5 | 6303.8 |
| 72.5° | 428.2  | 431.0  | 436.6  | 468.9  | 644.4  | 1385.7 | 3246.0 | 5269.1 | 5615.9 | 6369.8 | 6032.9 |
| 75°   | 355.2  | 356.6  | 358.0  | 367.8  | 401.5  | 565.8  | 1579.5 | 3620.8 | 4026.6 | 5413.7 | 5593.4 |
| 77.5° | 285.0  | 278.0  | 283.6  | 287.8  | 296.2  | 315.9  | 544.7  | 1931.9 | 2343.2 | 3553.4 | 4325.6 |
| 80°   | 185.3  | 182.5  | 193.7  | 198.0  | 206.4  | 219.0  | 290.6  | 655.7  | 796.1  | 1293.1 | 1375.9 |
| 82.5° | 99.7   | 94.1   | 117.9  | 113.7  | 117.9  | 127.8  | 171.3  | 240.1  | 269.6  | 390.3  | 329.9  |
| 85°   | 30.9   | 30.9   | 32.3   | 37.9   | 46.3   | 44.9   | 74.4   | 117.9  | 130.6  | 167.1  | 123.5  |
| 87.5° | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 7.0    | 15.4   | 23.9   | 32.3   | 57.6   | 43.5   |
| 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°    | 2041.4 | 2041.4 | 2041.4 | 2041.4 | 2041.4 | 2041.4 | 2041.4 | 2041.4 | 2041.4 | 2041.4 | 2041.4 |
| 2.5°  | 2069.5 | 2056.8 | 2063.8 | 2068.0 | 2066.6 | 2063.8 | 2049.8 | 2047.0 | 2040.0 | 2028.7 | 2025.9 |
| 5°    | 2131.2 | 2117.2 | 2118.6 | 2114.4 | 2100.3 | 2082.1 | 2051.2 | 2035.8 | 2023.1 | 2009.1 | 2007.7 |
| 7.5°  | 2228.1 | 2212.7 | 2208.4 | 2188.8 | 2149.5 | 2107.4 | 2058.2 | 2030.1 | 2009.1 | 1990.8 | 1988.0 |
| 10°   | 2351.7 | 2336.2 | 2322.2 | 2275.8 | 2211.3 | 2155.1 | 2090.5 | 2049.8 | 2018.9 | 1996.4 | 1992.2 |
| 12.5° | 2489.2 | 2476.6 | 2441.5 | 2374.1 | 2296.9 | 2230.9 | 2164.9 | 2114.4 | 2069.5 | 2035.8 | 2031.5 |
| 15°   | 2642.3 | 2614.2 | 2560.8 | 2473.8 | 2400.8 | 2347.4 | 2267.4 | 2198.6 | 2127.0 | 2082.1 | 2072.3 |
| 17.5° | 2749.0 | 2725.1 | 2661.9 | 2577.7 | 2520.1 | 2473.8 | 2379.7 | 2281.5 | 2184.6 | 2118.6 | 2104.6 |
| 20°   | 2824.8 | 2799.5 | 2727.9 | 2666.1 | 2647.9 | 2608.6 | 2499.1 | 2385.3 | 2273.0 | 2191.6 | 2173.3 |
| 22.5° | 2879.5 | 2852.9 | 2779.9 | 2749.0 | 2774.2 | 2767.2 | 2660.5 | 2531.4 | 2398.0 | 2301.1 | 2278.6 |
| 25°   | 2931.5 | 2906.2 | 2841.6 | 2852.9 | 2920.3 | 2941.3 | 2826.2 | 2676.0 | 2524.3 | 2410.6 | 2383.9 |
| 27.5° | 2980.6 | 2948.3 | 2918.9 | 2980.6 | 3076.1 | 3115.4 | 2993.3 | 2823.4 | 2659.1 | 2542.6 | 2521.5 |
| 30°   | 3056.4 | 3018.5 | 3014.3 | 3104.2 | 3255.8 | 3289.5 | 3154.7 | 2984.8 | 2822.0 | 2704.0 | 2677.4 |
| 32.5° | 3151.9 | 3116.8 | 3119.6 | 3254.4 | 3429.9 | 3458.0 | 3342.9 | 3184.2 | 3021.3 | 2903.4 | 2866.9 |
| 35°   | 3281.1 | 3237.6 | 3261.4 | 3427.1 | 3604.0 | 3655.9 | 3563.3 | 3431.3 | 3272.7 | 3151.9 | 3111.2 |
| 37.5° | 3459.4 | 3396.2 | 3445.3 | 3619.4 | 3797.7 | 3875.0 | 3803.4 | 3705.1 | 3547.8 | 3425.7 | 3387.8 |
| 40°   | 3686.8 | 3634.9 | 3654.5 | 3846.9 | 4030.8 | 4123.5 | 4078.5 | 3981.7 | 3825.8 | 3698.1 | 3654.5 |
| 42.5° | 3956.4 | 3904.4 | 3897.4 | 4102.4 | 4286.3 | 4426.7 | 4383.2 | 4294.7 | 4133.3 | 3987.3 | 3945.2 |
| 45°   | 4220.3 | 4172.6 | 4182.4 | 4391.6 | 4598.0 | 4751.0 | 4707.5 | 4603.6 | 4428.1 | 4259.6 | 4226.0 |
| 47.5° | 4495.5 | 4456.2 | 4464.6 | 4686.5 | 4913.9 | 5066.9 | 5012.2 | 4885.8 | 4680.8 | 4501.1 | 4460.4 |
| 50°   | 4777.7 | 4732.8 | 4745.4 | 4978.5 | 5224.2 | 5368.8 | 5284.5 | 5097.8 | 4871.8 | 4696.3 | 4661.2 |
| 52.5° | 5058.5 | 5005.2 | 5037.4 | 5257.9 | 5512.0 | 5627.1 | 5471.3 | 5245.2 | 5026.2 | 4852.1 | 4812.8 |
| 55°   | 5381.4 | 5325.3 | 5290.2 | 5526.0 | 5777.3 | 5825.1 | 5611.7 | 5347.7 | 5088.0 | 4890.0 | 4866.2 |
| 57.5° | 5676.3 | 5628.5 | 5562.5 | 5798.4 | 5983.7 | 5948.6 | 5719.8 | 5319.6 | 4937.8 | 4683.6 | 4650.0 |
| 60°   | 5940.2 | 5899.5 | 5841.9 | 6042.7 | 6126.9 | 6048.3 | 5632.7 | 4986.9 | 4567.1 | 4301.8 | 4286.3 |
| 62.5° | 6183.1 | 6139.6 | 6086.2 | 6257.5 | 6246.3 | 6063.7 | 5236.8 | 4475.9 | 3914.3 | 3629.3 | 3604.0 |
| 65°   | 6375.4 | 6336.1 | 6320.7 | 6455.5 | 6437.2 | 5761.9 | 4620.5 | 3639.1 | 2859.9 | 2538.4 | 2528.6 |
| 67.5° | 6430.2 | 6414.7 | 6497.6 | 6726.4 | 6441.4 | 5155.4 | 3623.6 | 2413.4 | 1535.9 | 1231.3 | 1213.0 |
| 70°   | 6225.2 | 6223.8 | 6461.1 | 6788.2 | 5857.4 | 3938.1 | 2138.2 | 1088.1 | 772.2  | 685.1  | 673.9  |
| 72.5° | 5958.5 | 5954.2 | 6142.4 | 5856.0 | 4343.9 | 2155.1 | 899.9  | 582.6  | 483.0  | 459.1  | 459.1  |
| 75°   | 5520.4 | 5509.2 | 5651.0 | 4454.8 | 2442.9 | 811.5  | 477.3  | 400.1  | 379.1  | 374.9  | 374.9  |
| 77.5° | 4499.7 | 4405.7 | 4182.4 | 2753.2 | 852.2  | 398.7  | 315.9  | 314.5  | 301.9  | 300.4  | 300.4  |
| 80°   | 1479.8 | 1479.8 | 1719.9 | 1050.2 | 376.3  | 245.7  | 223.2  | 234.5  | 221.8  | 213.4  | 212.0  |
| 82.5° | 241.5  | 332.7  | 473.1  | 300.4  | 203.6  | 153.0  | 137.6  | 146.0  | 153.0  | 122.1  | 122.1  |
| 85°   | 95.5   | 125.0  | 182.5  | 140.4  | 94.1   | 61.8   | 66.0   | 73.0   | 64.6   | 56.2   | 54.8   |
| 87.5° | 36.5   | 44.9   | 64.6   | 33.7   | 19.7   | 11.2   | 7.0    | 7.0    | 5.6    | 5.6    | 5.6    |
| 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)