

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: P633299

Luminaire Tested: GWS-SA2E-740-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633299  
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-SA2E-740-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

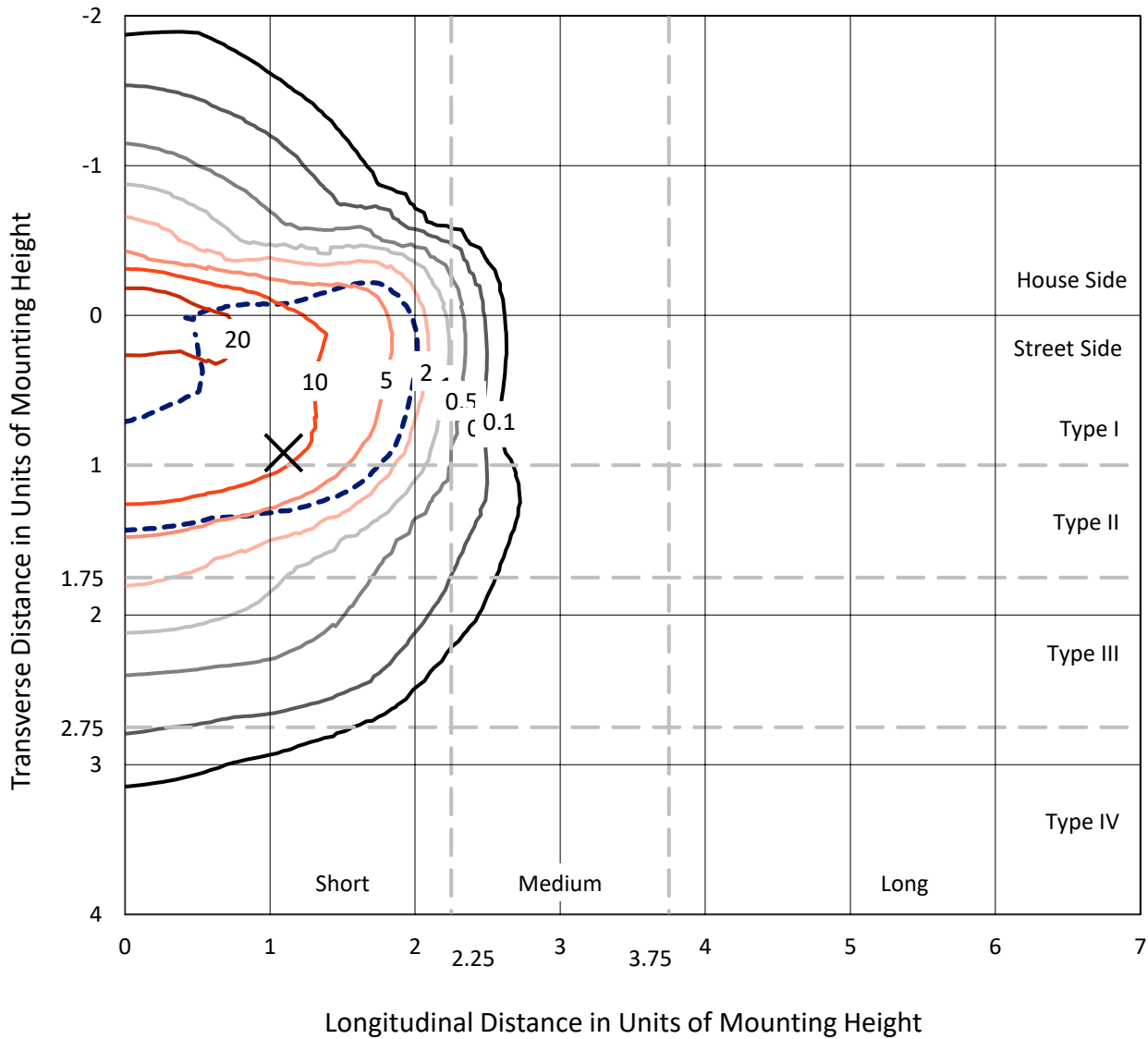
Lumens per Lamp: N/A  
Luminaire Lumens: 8567.7 lumens  
Efficiency: N/A  
Efficacy: 79.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

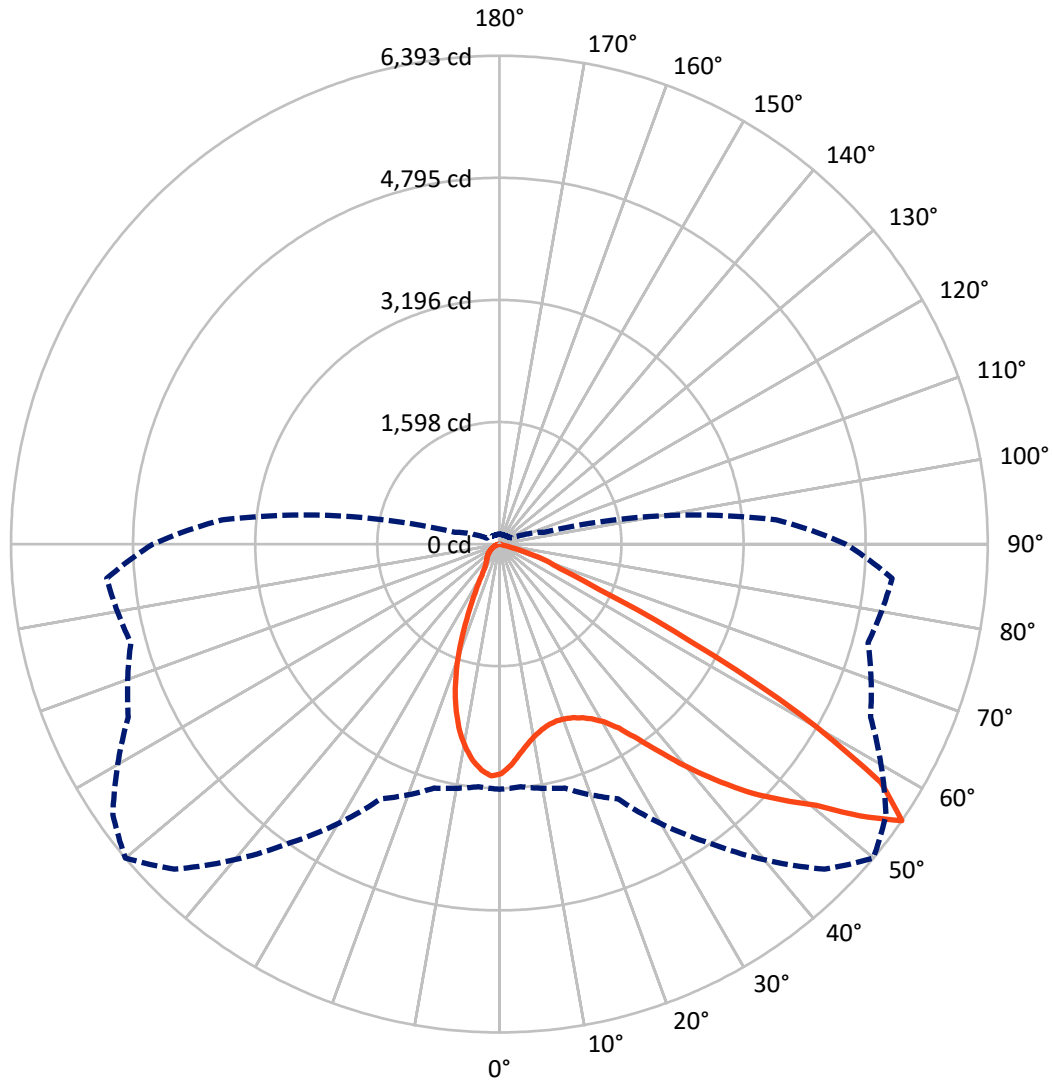
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 30.1 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    | 1688.2   | 0.0    | 1688.2 |
|                    | % Fixture | 19.7     | 0.0    | 19.7   |
| <b>Street Side</b> | Lumens    | 6879.5   | 0.0    | 6879.5 |
|                    | % Fixture | 80.3     | 0.0    | 80.3   |
| <b>Total</b>       | Lumens    | 8567.7   | 0.0    | 8567.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 264.0  | 3.1       |
| 10°-20°   | 649.6  | 7.6       |
| 20°-30°   | 916.3  | 10.7      |
| 30°-40°   | 1356.0 | 15.8      |
| 40°-50°   | 1956.3 | 22.8      |
| 50°-60°   | 2307.6 | 26.9      |
| 60°-70°   | 1029.4 | 12.0      |
| 70°-80°   | 88.5   | 1.0       |
| 80°-90°   | 0.0    | 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°    | 8567.7 | 100.0     |
| 0°-180°   | 8567.7 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P633299

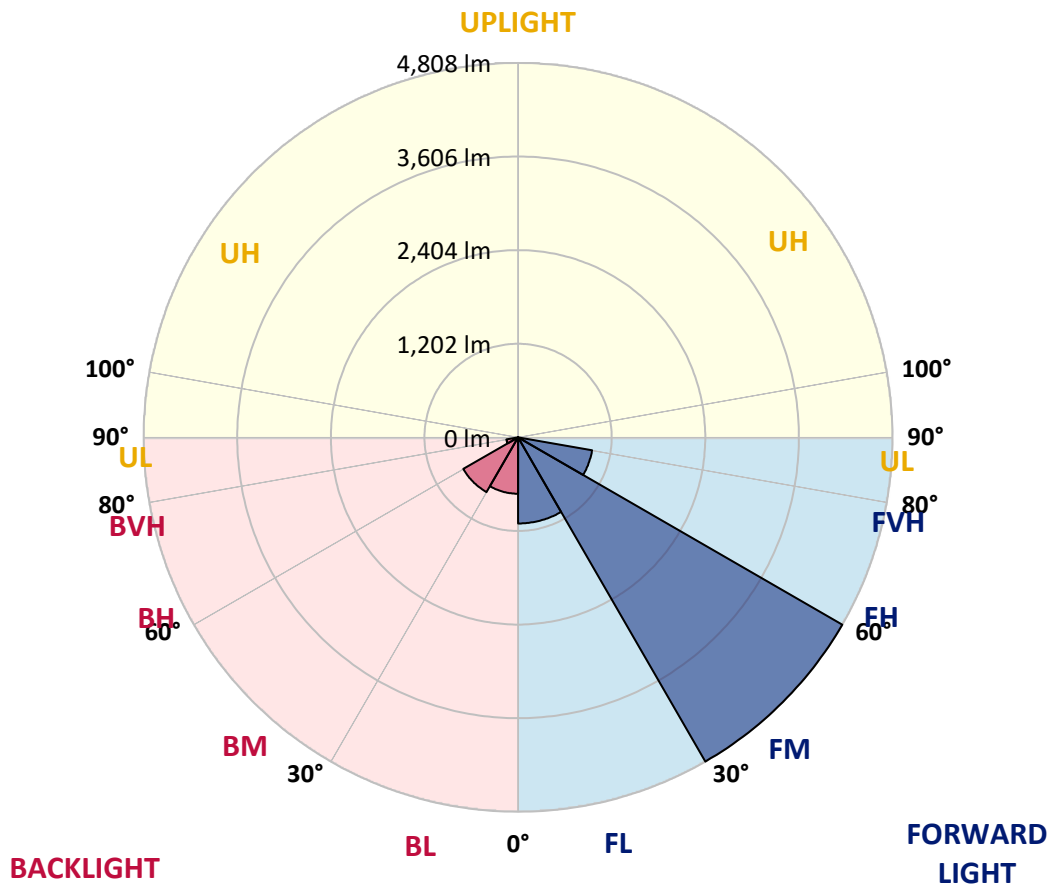
CATALOG NUMBER: GWS-SA2E-740-U-SL2-W-GRSBK

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1106.1 | 12.9      |                         |      |         |
| FM (30°-60°)   | 4807.9 | 56.1      |                         |      |         |
| FH (60°-80°)   | 965.4  | 11.3      |                         |      | G1/1800 |
| FVH (80°-90°)  | 0.0    | 0.0       |                         |      | G0/10   |
| BL (0°-30°)    | 723.9  | 8.4       | B2/1000                 |      |         |
| BM (30°-60°)   | 811.9  | 9.5       | B1/1000                 |      |         |
| BH (60°-80°)   | 152.4  | 1.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 0.0    | 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





REPORT NUMBER: P633299

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 50°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3006.0 | 3006.0 | 3006.0 | 3006.0 | 3006.0 | 3006.0 | 3006.0 | 3006.0 | 3006.0 | 3006.0 | 3006.0 |
| 2.5°  | 2792.7 | 2794.7 | 2795.8 | 2824.0 | 2834.5 | 2876.3 | 2898.3 | 2909.8 | 2940.1 | 2975.7 | 3005.0 |
| 5°    | 2605.4 | 2602.3 | 2607.5 | 2643.1 | 2666.1 | 2727.8 | 2761.3 | 2784.3 | 2851.2 | 2934.9 | 3005.0 |
| 7.5°  | 2442.3 | 2448.5 | 2454.8 | 2493.5 | 2528.0 | 2595.0 | 2643.1 | 2677.6 | 2770.7 | 2895.2 | 3013.3 |
| 10°   | 2327.2 | 2327.2 | 2336.6 | 2380.6 | 2421.3 | 2504.0 | 2552.1 | 2596.0 | 2706.9 | 2859.6 | 3022.8 |
| 12.5° | 2242.5 | 2243.5 | 2255.0 | 2305.2 | 2352.3 | 2438.1 | 2488.3 | 2531.2 | 2653.5 | 2824.0 | 3024.9 |
| 15°   | 2202.7 | 2199.6 | 2209.0 | 2262.4 | 2314.7 | 2395.2 | 2447.5 | 2489.3 | 2615.9 | 2804.2 | 3035.3 |
| 17.5° | 2192.3 | 2190.2 | 2197.5 | 2249.8 | 2303.2 | 2381.6 | 2432.9 | 2474.7 | 2610.7 | 2810.4 | 3066.7 |
| 20°   | 2222.6 | 2218.4 | 2215.3 | 2260.3 | 2310.5 | 2387.9 | 2441.2 | 2488.3 | 2635.8 | 2845.0 | 3114.8 |
| 22.5° | 2294.8 | 2294.8 | 2287.5 | 2309.4 | 2342.9 | 2413.0 | 2468.4 | 2530.1 | 2701.7 | 2914.0 | 3185.9 |
| 25°   | 2427.6 | 2417.2 | 2403.6 | 2413.0 | 2408.8 | 2452.7 | 2518.6 | 2604.4 | 2826.1 | 3028.0 | 3272.7 |
| 27.5° | 2579.3 | 2588.7 | 2565.7 | 2566.7 | 2530.1 | 2514.4 | 2590.8 | 2720.5 | 3011.3 | 3189.1 | 3401.4 |
| 30°   | 2785.3 | 2778.0 | 2779.1 | 2775.9 | 2691.2 | 2616.9 | 2699.6 | 2872.1 | 3244.5 | 3434.9 | 3568.7 |
| 32.5° | 2946.4 | 2956.9 | 2991.4 | 3011.3 | 2900.4 | 2781.1 | 2869.0 | 3078.2 | 3510.2 | 3715.2 | 3773.7 |
| 35°   | 3116.9 | 3135.7 | 3205.8 | 3270.6 | 3177.6 | 3040.5 | 3134.7 | 3351.2 | 3760.1 | 3992.3 | 4009.1 |
| 37.5° | 3296.8 | 3334.5 | 3418.1 | 3532.1 | 3517.5 | 3396.2 | 3481.9 | 3672.3 | 3956.8 | 4159.7 | 4203.6 |
| 40°   | 3502.8 | 3539.5 | 3676.5 | 3840.7 | 3875.2 | 3848.0 | 3876.2 | 3987.1 | 4086.5 | 4167.0 | 4287.3 |
| 42.5° | 3728.8 | 3779.0 | 3952.6 | 4172.2 | 4301.9 | 4326.0 | 4260.1 | 4248.6 | 4143.0 | 4083.3 | 4269.5 |
| 45°   | 3995.5 | 4054.1 | 4250.7 | 4535.2 | 4741.2 | 4773.7 | 4659.7 | 4512.2 | 4178.5 | 4021.6 | 4216.2 |
| 47.5° | 4294.6 | 4350.1 | 4545.6 | 4887.7 | 5194.1 | 5206.7 | 5008.0 | 4770.5 | 4284.2 | 4092.8 | 4257.0 |
| 50°   | 4395.0 | 4429.5 | 4599.0 | 5000.6 | 5565.4 | 5661.7 | 5374.0 | 5061.3 | 4496.5 | 4301.9 | 4455.7 |
| 52.5° | 4049.9 | 4063.5 | 4210.9 | 4616.8 | 5490.1 | 6108.3 | 5908.5 | 5495.4 | 4874.1 | 4621.0 | 4762.2 |
| 55°   | 3208.9 | 3187.0 | 3306.2 | 3678.6 | 4771.6 | 6017.3 | 6392.8 | 6177.3 | 5360.4 | 4995.4 | 5160.7 |
| 57.5° | 2244.6 | 2218.4 | 2191.2 | 2443.3 | 3560.4 | 5101.0 | 5890.7 | 6272.5 | 5823.8 | 5366.7 | 5590.5 |
| 60°   | 1845.0 | 1819.9 | 1688.1 | 1572.0 | 2152.5 | 3662.9 | 4524.7 | 5243.3 | 5786.1 | 5347.9 | 5576.9 |
| 62.5° | 1594.0 | 1579.4 | 1526.0 | 1368.1 | 1266.6 | 2090.8 | 2833.4 | 3521.7 | 4440.0 | 4199.4 | 4212.0 |
| 65°   | 1252.0 | 1247.8 | 1284.4 | 1301.1 | 1120.2 | 1156.8 | 1445.5 | 1830.4 | 2400.4 | 2263.4 | 2146.3 |
| 67.5° | 855.6  | 846.2  | 915.2  | 1125.4 | 1077.3 | 913.1  | 846.2  | 853.5  | 1038.6 | 634.9  | 504.1  |
| 70°   | 543.9  | 521.9  | 523.0  | 697.6  | 876.5  | 720.7  | 652.7  | 574.2  | 516.7  | 94.1   | 106.7  |
| 72.5° | 348.3  | 334.7  | 287.6  | 314.8  | 405.8  | 351.4  | 354.6  | 305.4  | 204.0  | 50.2   | 58.6   |
| 75°   | 146.4  | 134.9  | 103.5  | 82.6   | 81.6   | 51.3   | 45.0   | 41.8   | 28.2   | 28.2   | 30.3   |
| 77.5° | 1.0    | 0.0    | 0.0    | 1.0    | 2.1    | 1.0    | 1.0    | 2.1    | 4.2    | 6.3    | 7.3    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    |
| 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3006.0 | 3006.0 | 3006.0 | 3006.0 | 3006.0 | 3006.0 | 3006.0 | 3006.0 | 3006.0 | 3006.0 | 3006.0 |
| 2.5°  | 3022.8 | 2997.7 | 3025.9 | 3036.4 | 3035.3 | 3036.4 | 3006.0 | 2985.1 | 2984.1 | 2957.9 | 2945.4 |
| 5°    | 3034.3 | 3014.4 | 3035.3 | 3021.7 | 2989.3 | 2948.5 | 2894.1 | 2847.0 | 2826.1 | 2795.8 | 2781.1 |
| 7.5°  | 3056.2 | 3035.3 | 3032.2 | 2977.8 | 2897.2 | 2811.5 | 2715.3 | 2629.5 | 2583.5 | 2528.0 | 2531.2 |
| 10°   | 3071.9 | 3047.9 | 3007.1 | 2896.2 | 2762.3 | 2625.3 | 2482.0 | 2354.4 | 2273.9 | 2199.6 | 2187.1 |
| 12.5° | 3078.2 | 3042.6 | 2947.5 | 2780.1 | 2591.8 | 2413.0 | 2202.7 | 2020.8 | 1895.2 | 1798.0 | 1784.4 |
| 15°   | 3089.7 | 3032.2 | 2871.1 | 2639.9 | 2381.6 | 2128.5 | 1860.7 | 1611.8 | 1445.5 | 1333.6 | 1343.0 |
| 17.5° | 3107.5 | 3020.7 | 2785.3 | 2483.1 | 2155.7 | 1798.0 | 1436.1 | 1150.5 | 997.8  | 933.0  | 934.0  |
| 20°   | 3132.6 | 3007.1 | 2691.2 | 2310.5 | 1884.8 | 1424.6 | 1004.1 | 788.6  | 745.8  | 743.7  | 740.5  |
| 22.5° | 3166.1 | 2993.5 | 2590.8 | 2121.2 | 1563.7 | 997.8  | 668.4  | 601.4  | 619.2  | 653.7  | 660.0  |
| 25°   | 3205.8 | 2976.7 | 2478.9 | 1907.8 | 1213.3 | 654.8  | 501.0  | 490.5  | 533.4  | 579.4  | 589.9  |
| 27.5° | 3267.5 | 2968.4 | 2351.3 | 1665.1 | 851.4  | 469.6  | 410.0  | 416.3  | 455.0  | 493.7  | 503.1  |
| 30°   | 3372.1 | 2984.1 | 2212.2 | 1393.2 | 547.0  | 374.4  | 355.6  | 365.0  | 386.0  | 405.8  | 414.2  |
| 32.5° | 3514.4 | 3030.1 | 2077.2 | 1096.1 | 390.1  | 325.3  | 321.1  | 326.3  | 334.7  | 346.2  | 349.3  |
| 35°   | 3680.7 | 3109.6 | 1938.1 | 784.5  | 322.1  | 297.0  | 292.9  | 292.9  | 297.0  | 299.1  | 300.2  |
| 37.5° | 3817.7 | 3193.2 | 1807.4 | 521.9  | 288.7  | 275.1  | 268.8  | 265.7  | 264.6  | 266.7  | 267.8  |
| 40°   | 3877.3 | 3227.8 | 1665.1 | 379.7  | 264.6  | 255.2  | 245.8  | 236.4  | 236.4  | 243.7  | 244.7  |
| 42.5° | 3835.5 | 3189.1 | 1500.9 | 313.8  | 247.9  | 234.3  | 219.6  | 211.3  | 215.5  | 222.8  | 224.9  |
| 45°   | 3746.5 | 3093.9 | 1320.0 | 277.2  | 231.2  | 213.4  | 196.6  | 191.4  | 195.6  | 205.0  | 207.1  |
| 47.5° | 3731.9 | 3031.1 | 1103.5 | 253.1  | 213.4  | 195.6  | 177.8  | 172.6  | 177.8  | 185.1  | 187.2  |
| 50°   | 3877.3 | 3085.5 | 862.9  | 232.2  | 196.6  | 176.8  | 162.1  | 156.9  | 160.0  | 164.2  | 166.3  |
| 52.5° | 4143.0 | 3287.4 | 696.6  | 212.3  | 176.8  | 157.9  | 148.5  | 142.2  | 142.2  | 146.4  | 147.5  |
| 55°   | 4535.2 | 3639.9 | 601.4  | 189.3  | 153.8  | 143.3  | 134.9  | 128.7  | 128.7  | 130.7  | 131.8  |
| 57.5° | 4987.0 | 4066.6 | 623.4  | 159.0  | 134.9  | 129.7  | 122.4  | 117.1  | 119.2  | 119.2  | 119.2  |
| 60°   | 4924.3 | 4035.2 | 667.3  | 133.9  | 119.2  | 117.1  | 110.9  | 108.8  | 114.0  | 109.8  | 107.7  |
| 62.5° | 3627.3 | 2787.4 | 349.3  | 109.8  | 102.5  | 100.4  | 96.2   | 100.4  | 107.7  | 96.2   | 92.0   |
| 65°   | 1761.4 | 1349.3 | 140.2  | 90.0   | 86.8   | 84.7   | 82.6   | 88.9   | 93.1   | 75.3   | 71.1   |
| 67.5° | 414.2  | 336.8  | 91.0   | 76.4   | 72.2   | 68.0   | 70.1   | 71.1   | 68.0   | 51.3   | 49.2   |
| 70°   | 107.7  | 105.6  | 71.1   | 63.8   | 57.5   | 53.3   | 53.3   | 52.3   | 45.0   | 32.4   | 30.3   |
| 72.5° | 58.6   | 57.5   | 51.3   | 48.1   | 39.7   | 35.6   | 36.6   | 32.4   | 25.1   | 18.8   | 17.8   |
| 75°   | 29.3   | 31.4   | 29.3   | 27.2   | 22.0   | 19.9   | 19.9   | 17.8   | 12.6   | 7.3    | 7.3    |
| 77.5° | 6.3    | 7.3    | 7.3    | 6.3    | 5.2    | 4.2    | 4.2    | 5.2    | 2.1    | 0.0    | 0.0    |
| 80°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 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)