

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: P633792

Luminaire Tested: GWS-SA2F-740-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633792  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-740-U-RW-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14300.8 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 124.5  
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

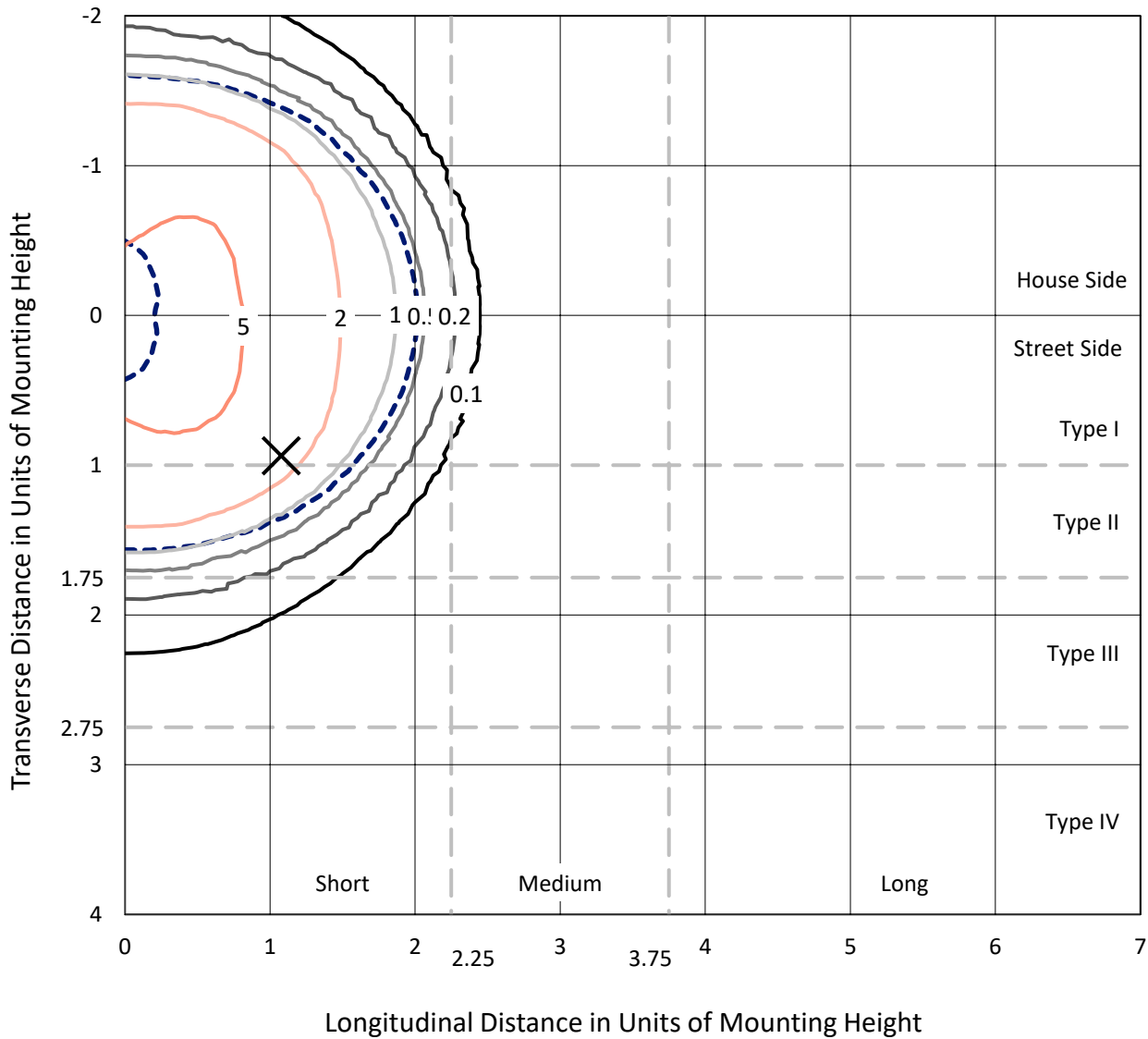


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### Iso-Footcandle Lines of Horizontal Illumination

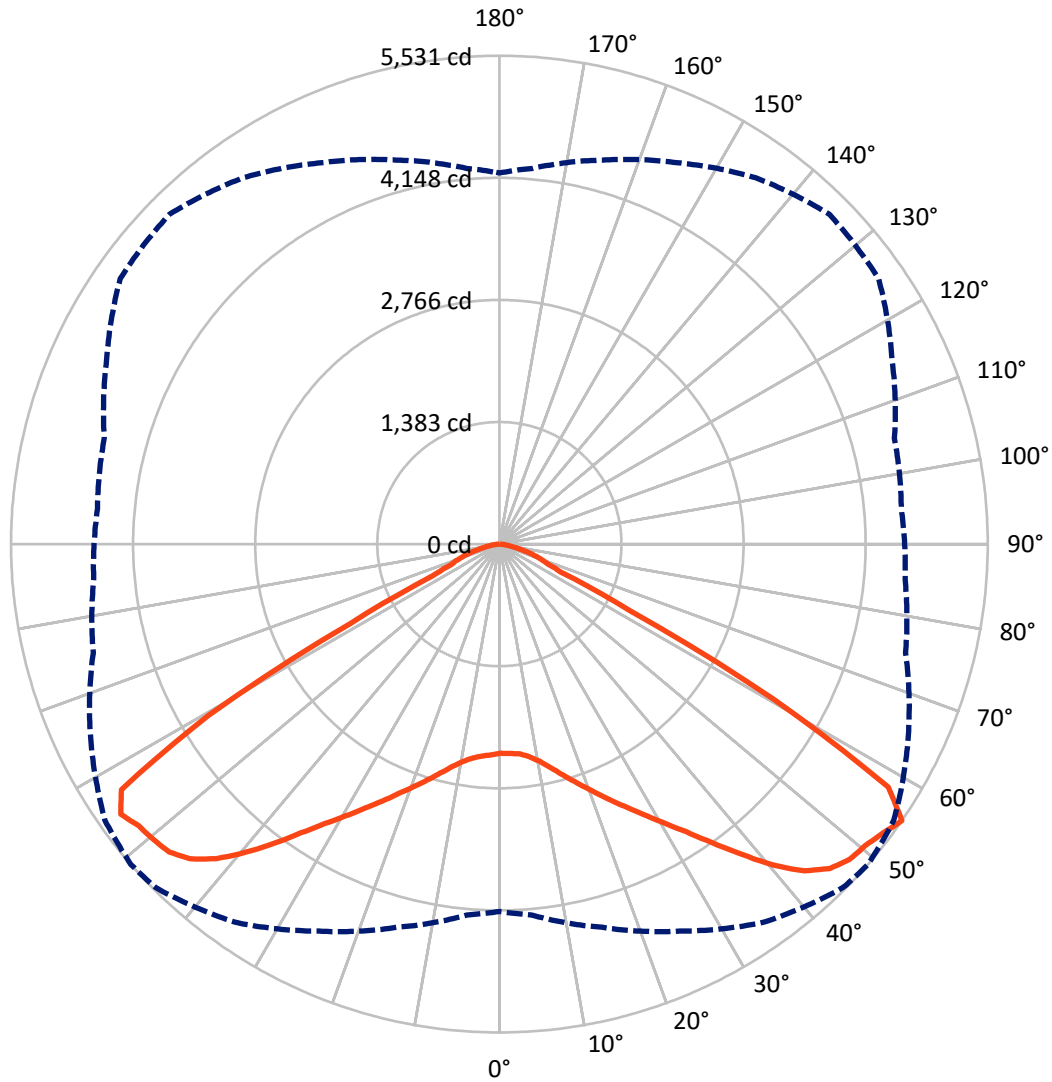
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7080.3   | 0.0    | 7080.3  |
|                    | % Fixture | 49.5     | 0.0    | 49.5    |
| <b>Street Side</b> | Lumens    | 7220.5   | 0.0    | 7220.5  |
|                    | % Fixture | 50.5     | 0.0    | 50.5    |
| <b>Total</b>       | Lumens    | 14300.8  | 0.0    | 14300.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 231.1   | 1.6       |
| 10°-20°   | 762.3   | 5.3       |
| 20°-30°   | 1451.9  | 10.2      |
| 30°-40°   | 2461.3  | 17.2      |
| 40°-50°   | 3704.0  | 25.9      |
| 50°-60°   | 4054.4  | 28.4      |
| 60°-70°   | 1282.0  | 9.0       |
| 70°-80°   | 307.7   | 2.2       |
| 80°-90°   | 46.2    | 0.3       |
| 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°    | 14300.8 | 100.0     |
| 0°-180°   | 14300.8 | 100.0     |

**Coefficient of Utilization**



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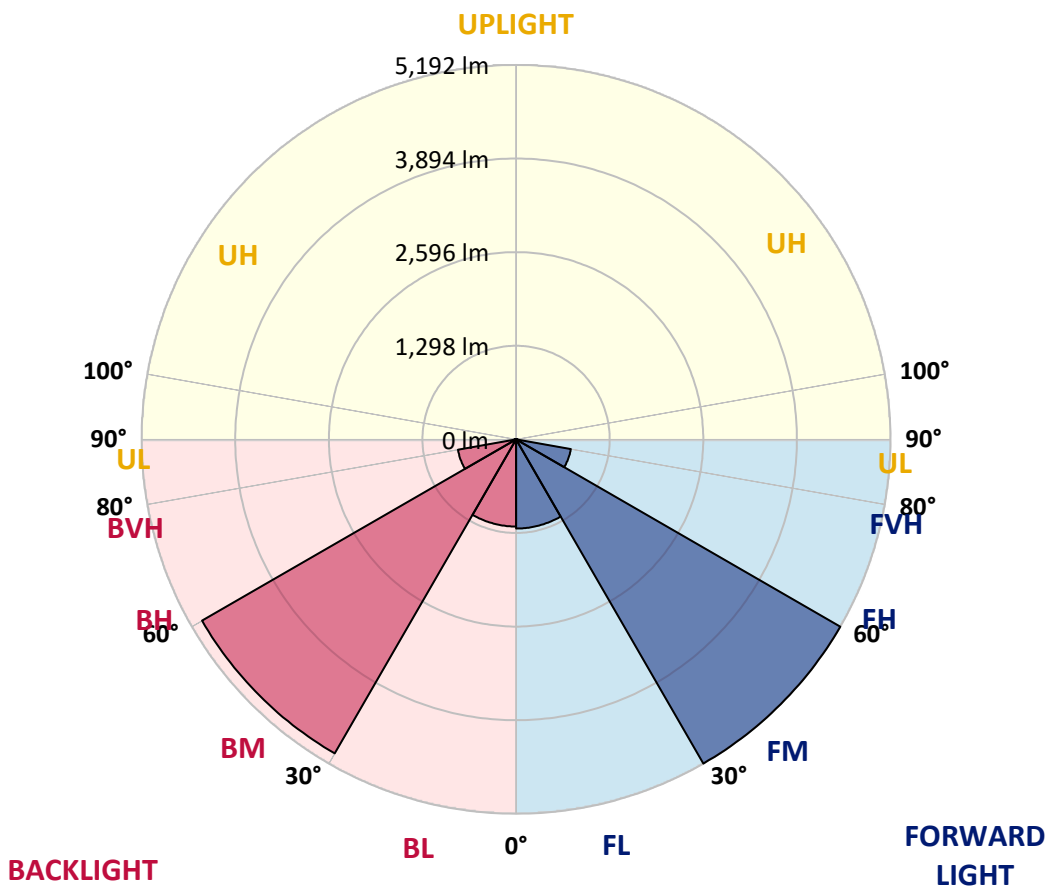
CATALOG NUMBER: GWS-SA2F-740-U-RW-W-GRSWH

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

| Zone           | Lumens | % Fixture                             | Zone Rating/Lumen Limit |      |         |
|----------------|--------|---------------------------------------|-------------------------|------|---------|
|                |        |                                       | B                       | U    | G       |
| FL (0°-30°)    | 1236.4 | 8.6                                   |                         |      |         |
| FM (30°-60°)   | 5191.6 | 36.3                                  |                         |      |         |
| FH (60°-80°)   | 771.2  | 5.4                                   |                         |      | G1/1800 |
| FVH (80°-90°)  | 21.4   | 0.1                                   |                         |      | G1/100  |
| BL (0°-30°)    | 1208.8 | 8.5                                   | B3/2500                 |      |         |
| BM (30°-60°)   | 5028.1 | 35.2                                  | B4/8500                 |      |         |
| BH (60°-80°)   | 818.6  | 5.7                                   | B2/1000                 |      | G1/1800 |
| BVH (80°-90°)  | 24.8   | 0.2                                   |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0                                   |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0 <td></td> <td>U0/0</td> <td></td> |                         | U0/0 |         |

**BUG Rating: B4-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 49°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2369.0 | 2369.0 | 2369.0 | 2369.0 | 2369.0 | 2369.0 | 2369.0 | 2369.0 | 2369.0 | 2369.0 | 2369.0 |
| 2.5°  | 2334.1 | 2336.5 | 2341.1 | 2349.2 | 2357.4 | 2369.0 | 2373.7 | 2379.5 | 2378.3 | 2385.3 | 2385.3 |
| 5°    | 2322.5 | 2326.0 | 2333.0 | 2344.6 | 2358.5 | 2380.6 | 2386.5 | 2400.4 | 2414.4 | 2431.8 | 2437.6 |
| 7.5°  | 2336.5 | 2341.1 | 2349.2 | 2367.9 | 2388.8 | 2417.9 | 2429.5 | 2452.7 | 2479.5 | 2510.9 | 2523.7 |
| 10°   | 2363.2 | 2369.0 | 2383.0 | 2413.2 | 2446.9 | 2491.1 | 2501.6 | 2530.7 | 2573.7 | 2616.7 | 2642.3 |
| 12.5° | 2393.4 | 2402.7 | 2428.3 | 2476.0 | 2526.0 | 2584.2 | 2600.4 | 2636.5 | 2683.0 | 2738.8 | 2773.7 |
| 15°   | 2428.3 | 2436.5 | 2476.0 | 2543.5 | 2621.4 | 2698.1 | 2716.7 | 2751.6 | 2804.0 | 2858.6 | 2907.5 |
| 17.5° | 2501.6 | 2515.6 | 2562.1 | 2640.0 | 2730.7 | 2821.4 | 2842.4 | 2881.9 | 2923.8 | 2966.8 | 3013.3 |
| 20°   | 2601.6 | 2613.2 | 2672.6 | 2769.1 | 2876.1 | 2958.7 | 2979.6 | 3014.5 | 3034.2 | 3056.3 | 3095.9 |
| 22.5° | 2701.6 | 2717.9 | 2785.4 | 2899.3 | 3024.9 | 3114.5 | 3130.8 | 3163.3 | 3149.4 | 3142.4 | 3168.0 |
| 25°   | 2826.1 | 2848.2 | 2914.5 | 3038.9 | 3166.8 | 3277.3 | 3290.1 | 3318.0 | 3294.8 | 3258.7 | 3257.5 |
| 27.5° | 2980.7 | 3000.5 | 3069.1 | 3197.1 | 3323.8 | 3439.0 | 3463.4 | 3500.6 | 3449.4 | 3405.2 | 3373.8 |
| 30°   | 3164.5 | 3177.3 | 3252.9 | 3389.0 | 3519.2 | 3628.5 | 3659.9 | 3697.2 | 3658.8 | 3585.5 | 3554.1 |
| 32.5° | 3378.5 | 3395.9 | 3483.2 | 3626.2 | 3742.5 | 3851.8 | 3883.2 | 3929.7 | 3887.9 | 3805.3 | 3765.8 |
| 35°   | 3635.5 | 3653.0 | 3744.8 | 3900.7 | 4019.3 | 4132.1 | 4154.2 | 4192.6 | 4140.3 | 4044.9 | 4013.5 |
| 37.5° | 3914.6 | 3936.7 | 4053.0 | 4200.7 | 4325.2 | 4456.6 | 4457.7 | 4469.4 | 4394.9 | 4276.3 | 4241.4 |
| 40°   | 4228.6 | 4257.7 | 4374.0 | 4527.5 | 4677.6 | 4784.5 | 4783.4 | 4750.8 | 4625.2 | 4441.5 | 4388.0 |
| 42.5° | 4539.2 | 4562.4 | 4679.9 | 4838.0 | 4988.1 | 5089.3 | 5059.0 | 4979.9 | 4798.5 | 4548.5 | 4477.5 |
| 45°   | 4763.6 | 4781.1 | 4904.3 | 5082.3 | 5234.6 | 5297.4 | 5242.8 | 5147.4 | 4902.0 | 4615.9 | 4511.2 |
| 47.5° | 4869.4 | 4892.7 | 5017.1 | 5193.9 | 5366.0 | 5402.1 | 5337.0 | 5247.4 | 4962.5 | 4678.7 | 4538.0 |
| 50°   | 4812.5 | 4842.7 | 4983.4 | 5147.4 | 5341.6 | 5416.1 | 5369.5 | 5280.0 | 5026.5 | 4740.4 | 4585.7 |
| 52.5° | 4664.8 | 4693.8 | 4871.8 | 5070.6 | 5290.4 | 5438.1 | 5437.0 | 5363.7 | 5099.7 | 4757.8 | 4588.0 |
| 55°   | 4160.0 | 4217.0 | 4493.8 | 4836.9 | 5227.6 | 5503.3 | 5531.2 | 5453.3 | 5111.3 | 4762.5 | 4612.4 |
| 57.5° | 2707.4 | 2807.5 | 3070.3 | 3516.9 | 4300.7 | 5005.5 | 5193.9 | 5212.5 | 5027.6 | 4742.7 | 4617.1 |
| 60°   | 1130.4 | 1210.7 | 1418.8 | 1715.4 | 2363.2 | 3201.7 | 3566.9 | 3933.2 | 4375.2 | 4535.7 | 4574.0 |
| 62.5° | 702.4  | 709.4  | 730.4  | 797.8  | 1014.1 | 1423.5 | 1658.4 | 2001.5 | 2658.6 | 3218.0 | 3476.2 |
| 65°   | 633.8  | 637.3  | 642.0  | 637.3  | 647.8  | 697.8  | 760.6  | 880.4  | 1147.9 | 1425.8 | 1756.1 |
| 67.5° | 558.2  | 562.9  | 566.4  | 562.9  | 566.4  | 568.7  | 575.7  | 586.1  | 635.0  | 674.5  | 704.8  |
| 70°   | 451.2  | 458.2  | 464.0  | 461.7  | 475.7  | 475.7  | 482.6  | 490.8  | 515.2  | 544.3  | 565.2  |
| 72.5° | 344.2  | 338.4  | 345.4  | 347.7  | 360.5  | 367.5  | 378.0  | 387.3  | 415.2  | 432.6  | 459.4  |
| 75°   | 223.3  | 217.5  | 227.9  | 233.8  | 251.2  | 260.5  | 269.8  | 279.1  | 298.9  | 310.5  | 336.1  |
| 77.5° | 121.0  | 119.8  | 130.3  | 138.4  | 157.0  | 168.6  | 175.6  | 182.6  | 198.9  | 202.4  | 218.6  |
| 80°   | 69.8   | 69.8   | 76.8   | 82.6   | 94.2   | 107.0  | 114.0  | 119.8  | 131.4  | 134.9  | 141.9  |
| 82.5° | 38.4   | 38.4   | 41.9   | 45.4   | 54.7   | 61.6   | 67.5   | 72.1   | 82.6   | 86.1   | 89.6   |
| 85°   | 18.6   | 17.4   | 19.8   | 22.1   | 25.6   | 29.1   | 32.6   | 34.9   | 43.0   | 45.4   | 50.0   |
| 87.5° | 2.3    | 2.3    | 2.3    | 3.5    | 4.7    | 7.0    | 8.1    | 8.1    | 12.8   | 15.1   | 17.4   |
| 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°    | 2369.0 | 2369.0 | 2369.0 | 2369.0 | 2369.0 | 2369.0 | 2369.0 | 2369.0 | 2369.0 | 2369.0 | 2369.0 |
| 2.5°  | 2392.3 | 2377.2 | 2386.5 | 2389.9 | 2389.9 | 2386.5 | 2371.3 | 2366.7 | 2359.7 | 2349.2 | 2349.2 |
| 5°    | 2445.8 | 2434.1 | 2436.5 | 2430.7 | 2416.7 | 2399.3 | 2371.3 | 2357.4 | 2345.8 | 2333.0 | 2331.8 |
| 7.5°  | 2537.6 | 2522.5 | 2520.2 | 2498.1 | 2460.9 | 2423.7 | 2381.8 | 2356.2 | 2338.8 | 2322.5 | 2321.3 |
| 10°   | 2657.4 | 2643.5 | 2626.0 | 2581.8 | 2527.2 | 2472.5 | 2415.5 | 2380.6 | 2355.1 | 2331.8 | 2330.6 |
| 12.5° | 2791.2 | 2774.9 | 2742.3 | 2677.2 | 2608.6 | 2555.1 | 2490.0 | 2436.5 | 2398.1 | 2366.7 | 2360.9 |
| 15°   | 2936.6 | 2913.3 | 2857.5 | 2780.7 | 2713.3 | 2656.3 | 2586.5 | 2509.7 | 2451.6 | 2401.6 | 2395.8 |
| 17.5° | 3048.2 | 3018.0 | 2957.5 | 2885.4 | 2829.6 | 2772.6 | 2681.9 | 2585.3 | 2501.6 | 2438.8 | 2429.5 |
| 20°   | 3125.0 | 3100.5 | 3031.9 | 2978.4 | 2945.9 | 2895.8 | 2790.0 | 2680.7 | 2586.5 | 2507.4 | 2502.8 |
| 22.5° | 3195.9 | 3166.8 | 3099.4 | 3068.0 | 3068.0 | 3034.2 | 2933.1 | 2804.0 | 2693.5 | 2601.6 | 2590.0 |
| 25°   | 3276.1 | 3244.7 | 3193.6 | 3190.1 | 3206.4 | 3191.2 | 3069.1 | 2930.7 | 2801.6 | 2698.1 | 2679.5 |
| 27.5° | 3387.8 | 3352.9 | 3322.7 | 3343.6 | 3366.9 | 3350.6 | 3214.5 | 3054.0 | 2917.9 | 2813.3 | 2797.0 |
| 30°   | 3565.7 | 3522.7 | 3494.8 | 3520.4 | 3565.7 | 3518.1 | 3370.4 | 3200.6 | 3063.3 | 2948.2 | 2940.0 |
| 32.5° | 3772.7 | 3723.9 | 3694.8 | 3735.5 | 3776.2 | 3701.8 | 3555.3 | 3392.4 | 3248.2 | 3127.3 | 3113.3 |
| 35°   | 4021.6 | 3960.0 | 3917.0 | 3971.6 | 4013.5 | 3940.2 | 3794.8 | 3640.2 | 3479.7 | 3354.1 | 3335.5 |
| 37.5° | 4242.6 | 4168.2 | 4139.1 | 4215.8 | 4271.7 | 4224.0 | 4065.8 | 3920.4 | 3744.8 | 3607.6 | 3599.5 |
| 40°   | 4403.1 | 4329.8 | 4308.9 | 4435.7 | 4533.3 | 4521.7 | 4379.8 | 4213.5 | 4048.4 | 3890.2 | 3875.1 |
| 42.5° | 4472.9 | 4421.7 | 4426.3 | 4597.3 | 4748.5 | 4822.9 | 4696.2 | 4518.2 | 4358.9 | 4194.9 | 4184.4 |
| 45°   | 4488.0 | 4456.6 | 4493.8 | 4707.8 | 4906.7 | 5059.0 | 4950.9 | 4802.0 | 4621.7 | 4463.6 | 4458.9 |
| 47.5° | 4504.3 | 4486.8 | 4543.8 | 4770.6 | 5006.7 | 5183.5 | 5123.0 | 4969.5 | 4786.9 | 4632.2 | 4620.6 |
| 50°   | 4542.6 | 4535.7 | 4599.6 | 4814.8 | 5054.4 | 5217.2 | 5148.6 | 4996.2 | 4809.0 | 4656.6 | 4628.7 |
| 52.5° | 4554.3 | 4542.6 | 4634.5 | 4883.4 | 5133.4 | 5216.0 | 5068.3 | 4869.4 | 4681.0 | 4511.2 | 4482.2 |
| 55°   | 4590.3 | 4569.4 | 4632.2 | 4909.0 | 5242.8 | 5283.5 | 5063.7 | 4765.9 | 4503.1 | 4271.7 | 4203.1 |
| 57.5° | 4599.6 | 4576.4 | 4617.1 | 4867.1 | 5124.1 | 5088.1 | 4450.8 | 3846.0 | 3350.6 | 3093.6 | 3122.6 |
| 60°   | 4549.6 | 4556.6 | 4486.8 | 4458.9 | 4110.0 | 3628.5 | 2724.9 | 2178.3 | 1710.8 | 1513.1 | 1556.1 |
| 62.5° | 3463.4 | 3492.5 | 3254.1 | 2829.6 | 2176.0 | 1724.7 | 1140.9 | 886.2  | 750.1  | 715.2  | 721.1  |
| 65°   | 1748.0 | 1787.5 | 1539.8 | 1273.5 | 946.7  | 765.2  | 661.7  | 640.8  | 633.8  | 625.7  | 625.7  |
| 67.5° | 692.0  | 703.6  | 694.3  | 650.1  | 604.8  | 588.5  | 583.8  | 581.5  | 573.4  | 568.7  | 569.9  |
| 70°   | 555.9  | 565.2  | 551.3  | 523.3  | 504.7  | 503.6  | 501.2  | 496.6  | 490.8  | 490.8  | 494.3  |
| 72.5° | 453.6  | 462.9  | 443.1  | 425.7  | 411.7  | 401.2  | 395.4  | 391.9  | 383.8  | 383.8  | 387.3  |
| 75°   | 333.8  | 339.6  | 323.3  | 321.0  | 305.9  | 295.4  | 286.1  | 281.4  | 271.0  | 266.3  | 269.8  |
| 77.5° | 222.1  | 221.0  | 212.8  | 212.8  | 207.0  | 194.2  | 183.8  | 173.3  | 159.3  | 150.0  | 152.4  |
| 80°   | 144.2  | 144.2  | 140.7  | 140.7  | 134.9  | 124.4  | 111.6  | 101.2  | 93.0   | 86.1   | 86.1   |
| 82.5° | 91.9   | 90.7   | 89.6   | 88.4   | 86.1   | 75.6   | 66.3   | 59.3   | 53.5   | 48.8   | 50.0   |
| 85°   | 51.2   | 51.2   | 48.8   | 48.8   | 44.2   | 38.4   | 33.7   | 29.1   | 25.6   | 24.4   | 24.4   |
| 87.5° | 17.4   | 17.4   | 16.3   | 16.3   | 14.0   | 10.5   | 8.1    | 7.0    | 5.8    | 4.7    | 5.8    |
| 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)