

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: P635533

Luminaire Tested: GWS-SA3D-830-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635533  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3D-830-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

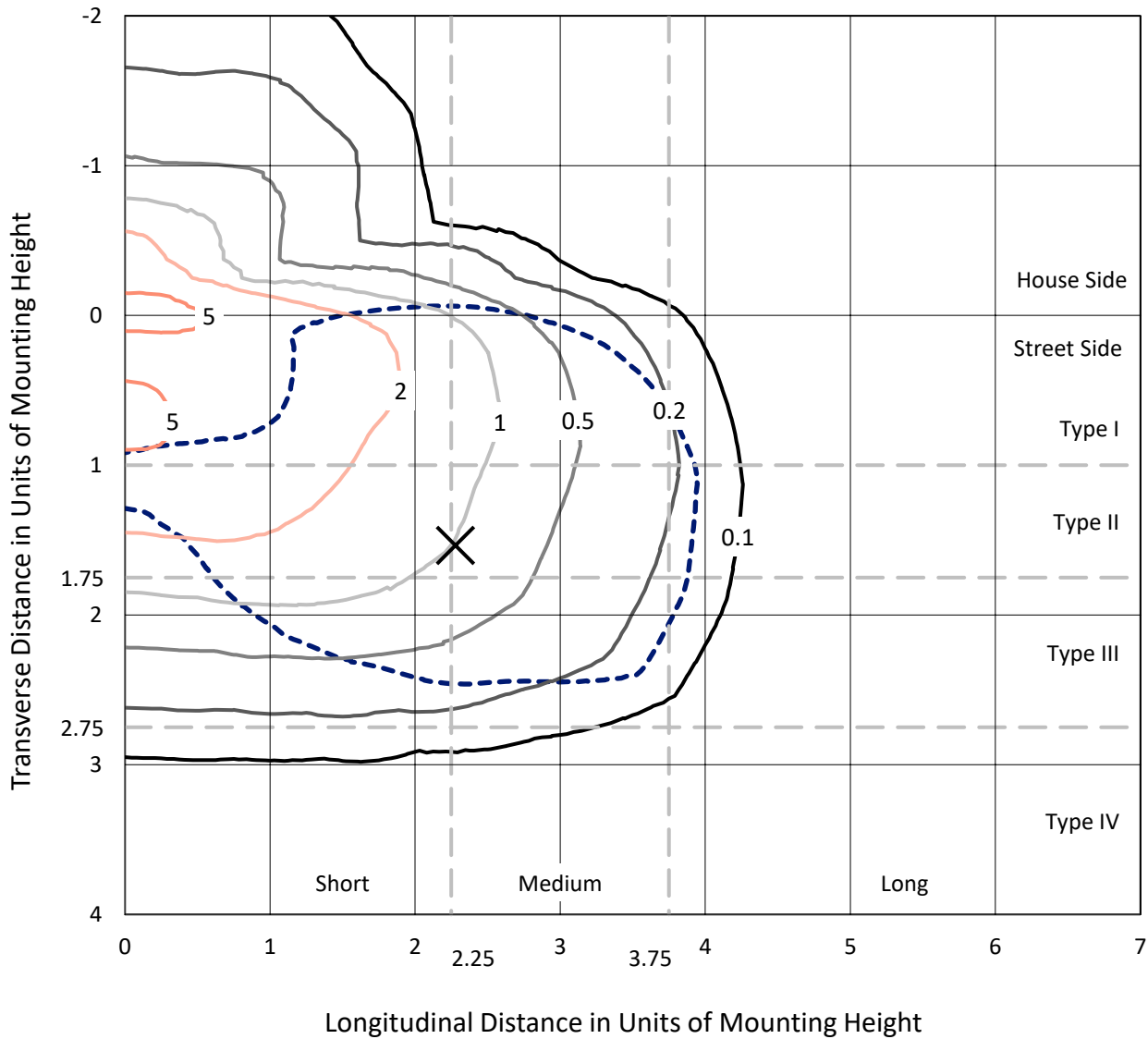
Lumens per Lamp: N/A  
Luminaire Lumens: 14211.8 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 120.8  
Input Voltage (V): 120  
Input Current (Ain): 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

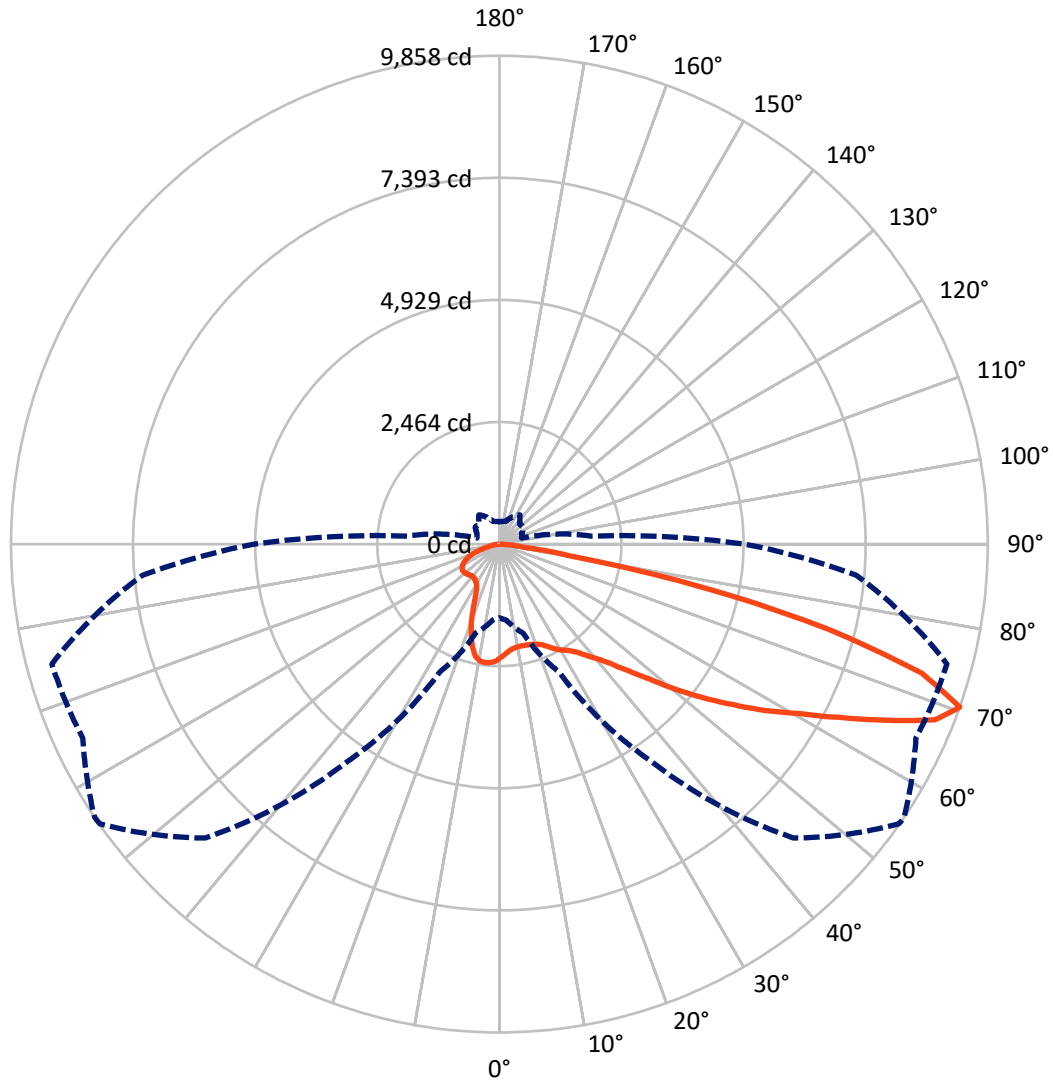
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2732.2   | 0.0    | 2732.2  |
|                    | % Fixture | 19.2     | 0.0    | 19.2    |
| <b>Street Side</b> | Lumens    | 11479.6  | 0.0    | 11479.6 |
|                    | % Fixture | 80.8     | 0.0    | 80.8    |
| <b>Total</b>       | Lumens    | 14211.8  | 0.0    | 14211.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 212.3   | 1.5       |
| 10°-20°   | 575.2   | 4.0       |
| 20°-30°   | 950.9   | 6.7       |
| 30°-40°   | 1421.8  | 10.0      |
| 40°-50°   | 2115.8  | 14.9      |
| 50°-60°   | 3008.1  | 21.2      |
| 60°-70°   | 3725.6  | 26.2      |
| 70°-80°   | 2057.2  | 14.5      |
| 80°-90°   | 144.9   | 1.0       |
| 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°    | 14211.8 | 100.0     |
| 0°-180°   | 14211.8 | 100.0     |

**Coefficient of Utilization**



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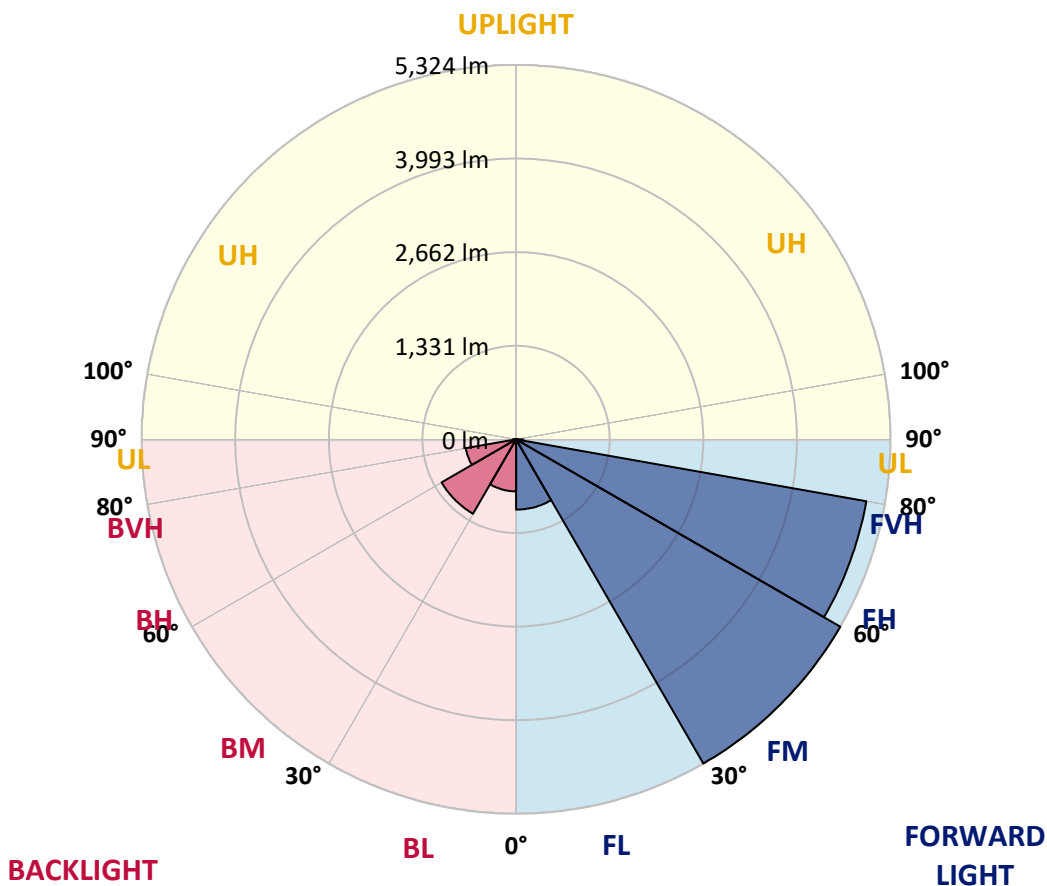
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 998.8  | 7.0       |                         |      |         |
| FM (30°-60°)   | 5323.5 | 37.5      |                         |      |         |
| FH (60°-80°)   | 5056.6 | 35.6      |                         |      | G3/7500 |
| FVH (80°-90°)  | 100.7  | 0.7       |                         |      | G2/225  |
| BL (0°-30°)    | 739.6  | 5.2       | B2/1000                 |      |         |
| BM (30°-60°)   | 1222.2 | 8.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 726.2  | 5.1       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 44.2   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2294.0 | 2294.0 | 2294.0 | 2294.0 | 2294.0 | 2294.0 | 2294.0 | 2294.0 | 2294.0 | 2294.0 | 2294.0 |
| 2.5°  | 2146.7 | 2134.7 | 2148.7 | 2155.7 | 2173.7 | 2199.8 | 2222.8 | 2223.9 | 2235.9 | 2264.9 | 2293.0 |
| 5°    | 2049.5 | 2043.5 | 2047.5 | 2068.5 | 2087.6 | 2120.6 | 2155.7 | 2158.7 | 2192.8 | 2249.9 | 2306.0 |
| 7.5°  | 1974.3 | 1966.3 | 1981.3 | 2008.4 | 2032.4 | 2069.5 | 2115.6 | 2119.6 | 2167.7 | 2253.9 | 2340.1 |
| 10°   | 1866.1 | 1860.1 | 1888.1 | 1924.2 | 1976.3 | 2037.4 | 2098.6 | 2103.6 | 2166.7 | 2280.0 | 2400.2 |
| 12.5° | 1819.0 | 1819.0 | 1831.0 | 1865.1 | 1922.2 | 2003.4 | 2095.6 | 2103.6 | 2182.8 | 2320.1 | 2477.4 |
| 15°   | 1892.1 | 1897.1 | 1887.1 | 1885.1 | 1908.2 | 1985.3 | 2099.6 | 2111.6 | 2212.8 | 2361.1 | 2553.6 |
| 17.5° | 2039.4 | 2044.5 | 2018.4 | 1977.3 | 1954.3 | 2002.4 | 2114.6 | 2127.6 | 2244.9 | 2406.2 | 2635.7 |
| 20°   | 2245.9 | 2251.9 | 2194.8 | 2131.6 | 2052.5 | 2051.5 | 2143.7 | 2155.7 | 2286.0 | 2455.4 | 2722.9 |
| 22.5° | 2487.4 | 2491.4 | 2419.3 | 2319.1 | 2197.8 | 2142.7 | 2193.8 | 2205.8 | 2339.1 | 2523.5 | 2817.1 |
| 25°   | 2767.0 | 2779.1 | 2691.9 | 2546.6 | 2382.2 | 2267.9 | 2277.0 | 2291.0 | 2434.3 | 2614.7 | 2928.4 |
| 27.5° | 3065.7 | 3080.7 | 2980.5 | 2820.2 | 2593.7 | 2406.2 | 2384.2 | 2396.2 | 2535.5 | 2670.8 | 2987.5 |
| 30°   | 3371.4 | 3382.4 | 3282.2 | 3098.8 | 2821.2 | 2562.6 | 2474.4 | 2481.4 | 2579.6 | 2697.9 | 3047.6 |
| 32.5° | 3711.1 | 3702.1 | 3605.9 | 3394.4 | 3083.7 | 2750.0 | 2558.6 | 2556.6 | 2628.7 | 2752.0 | 3133.8 |
| 35°   | 4029.8 | 4042.8 | 3940.6 | 3707.1 | 3372.4 | 2981.5 | 2684.9 | 2676.8 | 2733.0 | 2840.2 | 3255.1 |
| 37.5° | 4415.6 | 4411.6 | 4289.4 | 4036.8 | 3662.0 | 3203.0 | 2862.2 | 2848.2 | 2868.3 | 2977.5 | 3424.5 |
| 40°   | 4691.2 | 4719.3 | 4640.1 | 4404.6 | 4000.7 | 3475.6 | 3069.7 | 3038.6 | 3043.6 | 3146.9 | 3651.0 |
| 42.5° | 4916.7 | 4942.8 | 4950.8 | 4800.5 | 4388.6 | 3812.3 | 3328.3 | 3297.2 | 3300.2 | 3446.5 | 3929.6 |
| 45°   | 5090.1 | 5125.2 | 5238.4 | 5194.3 | 4825.5 | 4201.2 | 3678.0 | 3646.0 | 3648.0 | 3810.3 | 4266.3 |
| 47.5° | 5161.3 | 5199.3 | 5428.8 | 5534.1 | 5289.5 | 4666.2 | 4113.0 | 4065.9 | 4072.9 | 4252.3 | 4651.1 |
| 50°   | 5138.2 | 5189.3 | 5500.0 | 5795.6 | 5678.4 | 5139.2 | 4633.1 | 4600.0 | 4573.0 | 4833.5 | 5069.1 |
| 52.5° | 4939.8 | 4995.9 | 5493.0 | 5962.0 | 5996.1 | 5586.2 | 5170.3 | 5151.2 | 5145.2 | 5450.9 | 5536.1 |
| 55°   | 4355.5 | 4449.7 | 5251.5 | 6006.1 | 6244.6 | 6007.1 | 5752.5 | 5720.5 | 5751.5 | 6112.3 | 6008.1 |
| 57.5° | 4031.8 | 4101.9 | 4778.4 | 5957.0 | 6448.1 | 6408.0 | 6333.8 | 6336.8 | 6371.9 | 6830.9 | 6580.4 |
| 60°   | 3847.4 | 3929.6 | 4515.8 | 5822.7 | 6643.5 | 6895.0 | 6942.1 | 6942.1 | 7005.3 | 7605.6 | 7161.6 |
| 62.5° | 3602.9 | 3686.0 | 4270.3 | 5564.1 | 6823.9 | 7468.3 | 7706.8 | 7703.8 | 7728.9 | 8436.4 | 7729.9 |
| 65°   | 3106.8 | 3183.9 | 3777.2 | 5156.2 | 6912.1 | 8099.7 | 8575.7 | 8566.7 | 8516.6 | 9176.0 | 8105.7 |
| 67.5° | 2255.9 | 2329.1 | 2893.3 | 4380.6 | 6594.4 | 8608.8 | 9470.7 | 9474.7 | 9175.0 | 9642.0 | 8125.7 |
| 70°   | 1487.2 | 1537.4 | 1860.1 | 2845.2 | 5362.7 | 8389.3 | 9845.5 | 9857.5 | 9276.2 | 9351.4 | 7231.8 |
| 72.5° | 928.0  | 963.1  | 1161.5 | 1696.7 | 3168.9 | 6640.5 | 8883.4 | 8916.4 | 8345.2 | 8217.9 | 5942.0 |
| 75°   | 616.3  | 640.4  | 772.7  | 989.2  | 1466.2 | 3593.8 | 6752.7 | 6859.0 | 6688.6 | 6442.0 | 4140.0 |
| 77.5° | 370.8  | 390.9  | 492.1  | 628.4  | 649.4  | 1404.1 | 3941.6 | 4216.2 | 4240.2 | 3363.3 | 1733.8 |
| 80°   | 169.4  | 192.4  | 271.6  | 358.8  | 345.8  | 489.1  | 1390.0 | 1454.2 | 1715.7 | 1068.3 | 547.2  |
| 82.5° | 100.2  | 110.2  | 180.4  | 178.4  | 147.3  | 237.5  | 500.1  | 513.1  | 436.0  | 390.9  | 233.5  |
| 85°   | 40.1   | 47.1   | 76.2   | 67.1   | 54.1   | 77.2   | 188.4  | 197.4  | 189.4  | 170.4  | 86.2   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 2.0    | 17.0   | 18.0   | 26.1   | 47.1   | 26.1   |
| 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°    | 2294.0 | 2294.0 | 2294.0 | 2294.0 | 2294.0 | 2294.0 | 2294.0 | 2294.0 | 2294.0 | 2294.0 | 2294.0 |
| 2.5°  | 2311.0 | 2305.0 | 2335.1 | 2358.1 | 2368.2 | 2378.2 | 2369.2 | 2366.2 | 2366.2 | 2346.1 | 2336.1 |
| 5°    | 2336.1 | 2339.1 | 2380.2 | 2399.2 | 2399.2 | 2391.2 | 2367.2 | 2350.1 | 2344.1 | 2318.1 | 2311.0 |
| 7.5°  | 2383.2 | 2396.2 | 2434.3 | 2433.3 | 2405.2 | 2361.1 | 2301.0 | 2254.9 | 2212.8 | 2194.8 | 2183.8 |
| 10°   | 2460.4 | 2477.4 | 2503.5 | 2461.4 | 2383.2 | 2266.9 | 2139.7 | 2039.4 | 1979.3 | 1931.2 | 1931.2 |
| 12.5° | 2548.6 | 2564.6 | 2559.6 | 2462.4 | 2301.0 | 2083.5 | 1900.1 | 1784.9 | 1700.7 | 1656.6 | 1656.6 |
| 15°   | 2636.8 | 2649.8 | 2595.7 | 2416.3 | 2129.6 | 1840.0 | 1639.6 | 1501.3 | 1428.1 | 1387.0 | 1387.0 |
| 17.5° | 2725.9 | 2724.9 | 2610.7 | 2310.0 | 1906.2 | 1570.4 | 1374.0 | 1266.8 | 1241.7 | 1234.7 | 1233.7 |
| 20°   | 2812.1 | 2789.1 | 2591.7 | 2132.7 | 1646.6 | 1298.8 | 1174.6 | 1181.6 | 1218.7 | 1234.7 | 1236.7 |
| 22.5° | 2909.3 | 2852.2 | 2535.5 | 1906.2 | 1351.9 | 1110.4 | 1118.4 | 1176.6 | 1230.7 | 1254.7 | 1257.7 |
| 25°   | 3008.6 | 2906.3 | 2441.3 | 1640.6 | 1105.4 | 1041.3 | 1103.4 | 1168.5 | 1229.7 | 1260.7 | 1263.8 |
| 27.5° | 3048.6 | 2906.3 | 2281.0 | 1332.9 | 974.1  | 1012.2 | 1080.4 | 1143.5 | 1207.6 | 1243.7 | 1250.7 |
| 30°   | 3081.7 | 2881.3 | 2056.5 | 1055.3 | 920.0  | 984.1  | 1043.3 | 1101.4 | 1164.5 | 1208.6 | 1216.7 |
| 32.5° | 3127.8 | 2859.2 | 1784.9 | 886.9  | 895.0  | 957.1  | 998.2  | 1047.3 | 1104.4 | 1133.5 | 1130.5 |
| 35°   | 3181.9 | 2825.2 | 1457.2 | 806.8  | 873.9  | 934.0  | 963.1  | 992.2  | 966.1  | 965.1  | 968.1  |
| 37.5° | 3259.1 | 2795.1 | 1171.6 | 770.7  | 859.9  | 918.0  | 942.1  | 879.9  | 843.8  | 828.8  | 822.8  |
| 40°   | 3370.4 | 2783.1 | 924.0  | 749.6  | 857.9  | 917.0  | 900.0  | 803.8  | 754.6  | 702.5  | 701.5  |
| 42.5° | 3510.7 | 2774.1 | 763.7  | 739.6  | 864.9  | 940.1  | 841.8  | 753.6  | 652.4  | 629.4  | 627.4  |
| 45°   | 3691.1 | 2760.0 | 683.5  | 737.6  | 881.9  | 958.1  | 835.8  | 684.5  | 615.3  | 605.3  | 605.3  |
| 47.5° | 3908.5 | 2738.0 | 647.4  | 737.6  | 901.0  | 950.1  | 817.8  | 669.5  | 598.3  | 609.3  | 616.3  |
| 50°   | 4158.1 | 2709.9 | 628.4  | 735.6  | 920.0  | 950.1  | 779.7  | 666.5  | 594.3  | 651.4  | 674.5  |
| 52.5° | 4424.6 | 2677.8 | 615.3  | 727.6  | 933.0  | 951.1  | 781.7  | 676.5  | 598.3  | 661.4  | 680.5  |
| 55°   | 4719.3 | 2672.8 | 597.3  | 710.5  | 937.0  | 925.0  | 786.7  | 698.5  | 604.3  | 599.3  | 600.3  |
| 57.5° | 5091.1 | 2733.0 | 584.3  | 685.5  | 921.0  | 871.9  | 796.7  | 714.6  | 597.3  | 598.3  | 605.3  |
| 60°   | 5480.0 | 2846.2 | 595.3  | 661.4  | 887.9  | 821.8  | 803.8  | 706.5  | 563.2  | 547.2  | 549.2  |
| 62.5° | 5810.7 | 2932.4 | 604.3  | 650.4  | 839.8  | 777.7  | 796.7  | 688.5  | 544.2  | 540.2  | 549.2  |
| 65°   | 5949.0 | 2861.2 | 582.3  | 627.4  | 769.7  | 723.6  | 781.7  | 665.5  | 528.2  | 513.1  | 514.1  |
| 67.5° | 5795.6 | 2527.5 | 539.2  | 576.3  | 690.5  | 654.4  | 757.7  | 635.4  | 506.1  | 488.1  | 484.1  |
| 70°   | 4950.8 | 1857.1 | 465.0  | 495.1  | 594.3  | 573.3  | 720.6  | 596.3  | 471.0  | 458.0  | 449.0  |
| 72.5° | 3989.7 | 1314.9 | 385.8  | 393.9  | 466.0  | 483.1  | 656.4  | 547.2  | 430.9  | 393.9  | 380.8  |
| 75°   | 2777.1 | 825.8  | 321.7  | 313.7  | 336.7  | 368.8  | 512.1  | 454.0  | 371.8  | 332.7  | 320.7  |
| 77.5° | 1194.6 | 423.9  | 251.5  | 247.5  | 224.5  | 255.6  | 392.9  | 378.8  | 311.7  | 266.6  | 259.6  |
| 80°   | 399.9  | 245.5  | 181.4  | 174.4  | 149.3  | 179.4  | 276.6  | 302.7  | 244.5  | 197.4  | 185.4  |
| 82.5° | 200.4  | 142.3  | 115.3  | 104.2  | 100.2  | 113.2  | 163.4  | 188.4  | 169.4  | 136.3  | 115.3  |
| 85°   | 98.2   | 81.2   | 63.1   | 62.1   | 52.1   | 49.1   | 68.1   | 80.2   | 76.2   | 56.1   | 53.1   |
| 87.5° | 36.1   | 32.1   | 20.0   | 16.0   | 10.0   | 7.0    | 4.0    | 4.0    | 3.0    | 3.0    | 3.0    |
| 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)