

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P941610

Luminaire Tested: **GALN-SB5B-727-U-5WQ**

Issue Date: 1/21/2025

#### Test Information

Test Method: LM-79-08  
Report Number: P941610  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5B-727-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 26687 lumens  
Efficiency: N/A  
Efficacy: 146.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

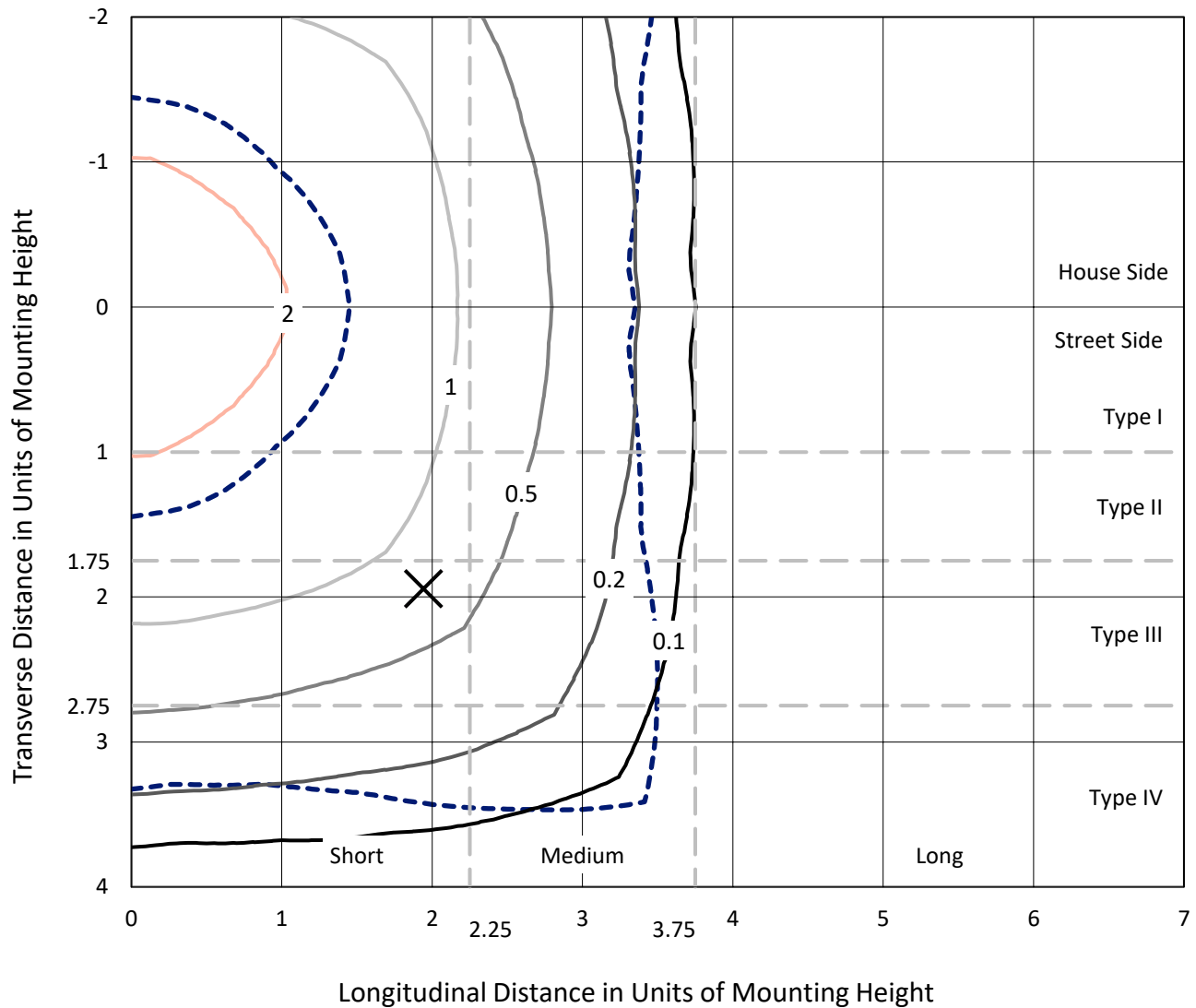


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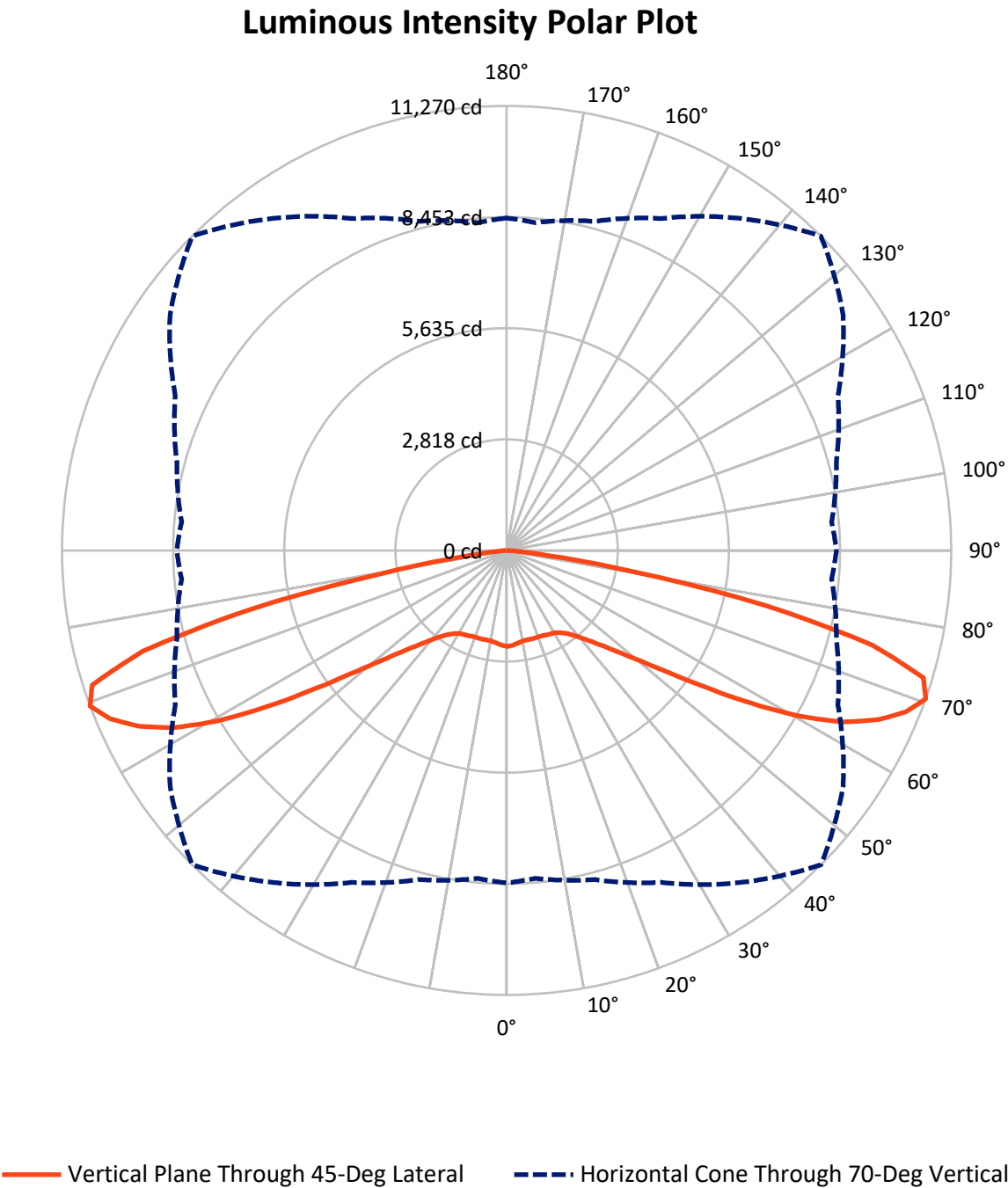
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
Type V - Short - N/A

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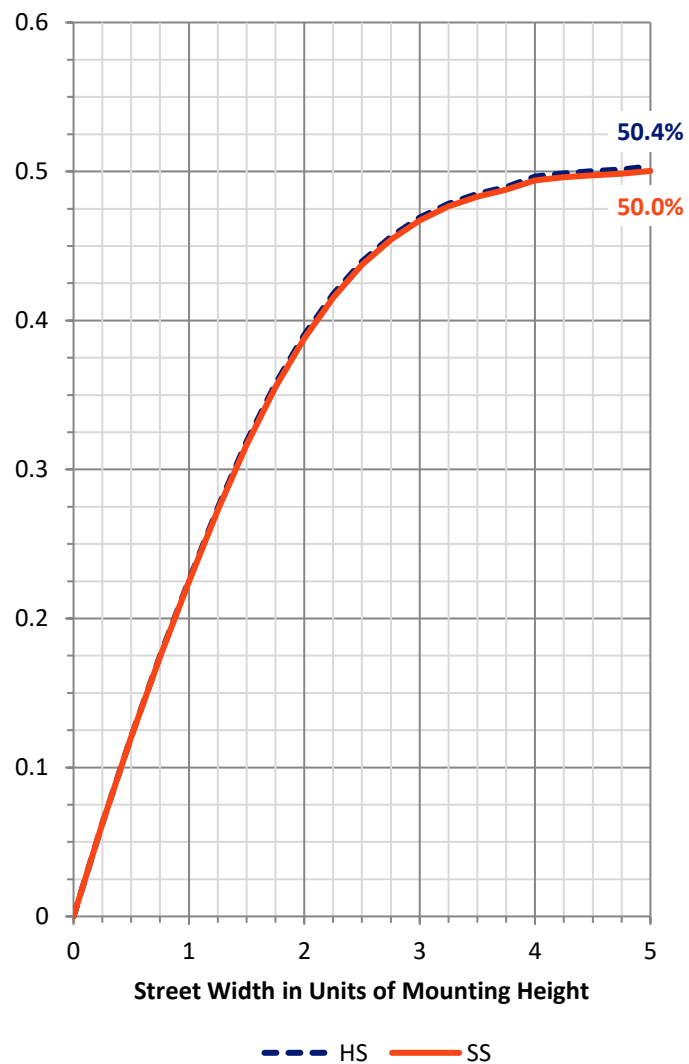
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13343.5  | 0.0    | 13343.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 13343.5  | 0.0    | 13343.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 26687.0  | 0.0    | 26687.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 226.5   | 0.8       |
| 10°-20°   | 664.9   | 2.5       |
| 20°-30°   | 1106.5  | 4.1       |
| 30°-40°   | 1673.4  | 6.3       |
| 40°-50°   | 2780.8  | 10.4      |
| 50°-60°   | 5247.3  | 19.7      |
| 60°-70°   | 8860.3  | 33.2      |
| 70°-80°   | 5822.2  | 21.8      |
| 80°-90°   | 305.0   | 1.1       |
| 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°    | 26687.0 | 100.0     |
| 0°-180°   | 26687.0 | 100.0     |

**Coefficient of Utilization**



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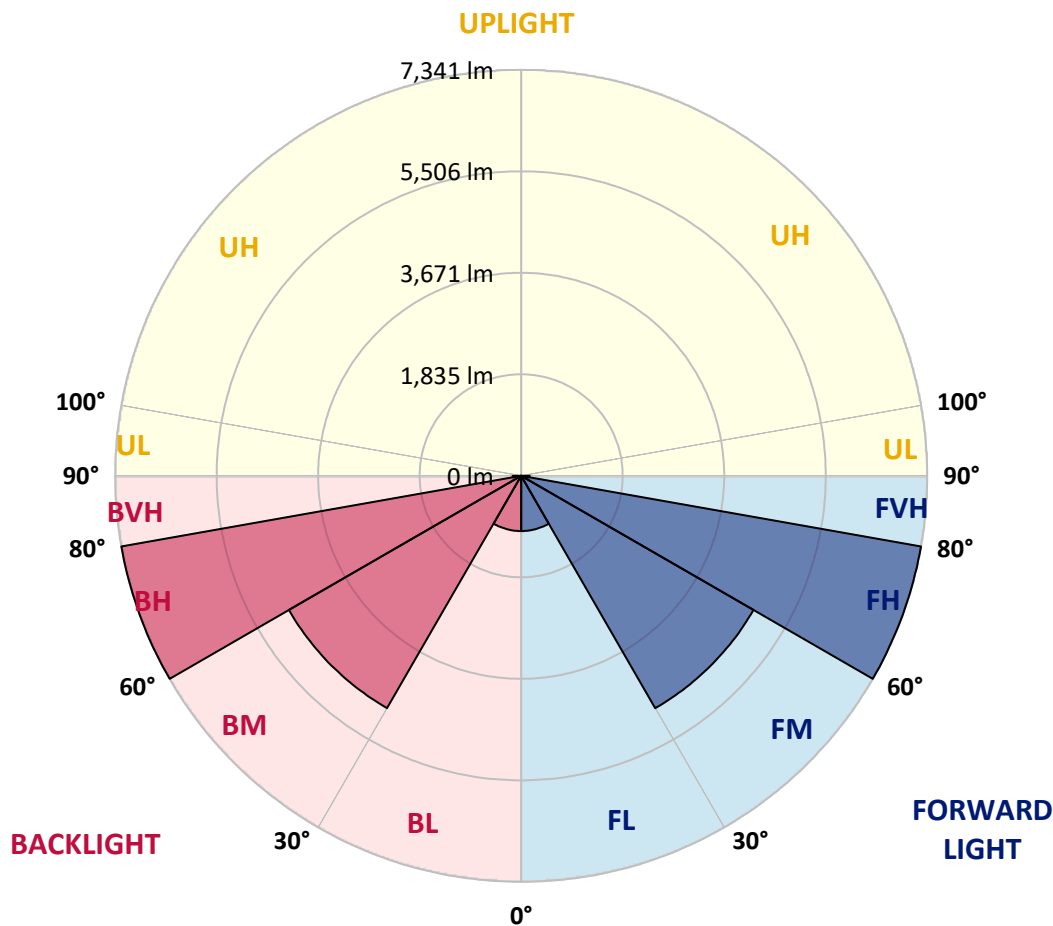
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 999.0  | 3.7       |                         |      |         |
| FM   | (30°-60°)   | 4850.8 | 18.2      |                         |      |         |
| FH   | (60°-80°)   | 7341.2 | 27.5      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 152.5  | 0.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 999.0  | 3.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 4850.8 | 18.2      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 7341.2 | 27.5      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 152.5  | 0.6       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 2434.4 | 2434.4 | 2434.4 | 2434.4 | 2434.4  | 2434.4  | 2434.4  | 2434.4 | 2434.4 | 2434.4 | 2434.4 |
| 2.5°  | 2419.1 | 2426.1 | 2423.3 | 2417.7 | 2417.7  | 2413.6  | 2417.7  | 2420.5 | 2424.7 | 2427.5 | 2426.1 |
| 5°    | 2387.2 | 2392.8 | 2391.4 | 2387.2 | 2388.6  | 2384.5  | 2387.2  | 2391.4 | 2394.2 | 2395.6 | 2395.6 |
| 7.5°  | 2359.5 | 2365.0 | 2362.3 | 2355.3 | 2355.3  | 2351.2  | 2352.6  | 2356.7 | 2360.9 | 2362.3 | 2362.3 |
| 10°   | 2352.6 | 2358.1 | 2349.8 | 2338.7 | 2334.5  | 2329.0  | 2330.4  | 2334.5 | 2342.8 | 2347.0 | 2347.0 |
| 12.5° | 2355.3 | 2359.5 | 2351.2 | 2334.5 | 2330.4  | 2324.8  | 2324.8  | 2329.0 | 2340.1 | 2345.6 | 2347.0 |
| 15°   | 2363.6 | 2367.8 | 2355.3 | 2337.3 | 2333.1  | 2329.0  | 2327.6  | 2333.1 | 2345.6 | 2355.3 | 2356.7 |
| 17.5° | 2378.9 | 2383.1 | 2363.6 | 2338.7 | 2333.1  | 2334.5  | 2333.1  | 2337.3 | 2356.7 | 2374.7 | 2374.7 |
| 20°   | 2392.8 | 2395.6 | 2369.2 | 2338.7 | 2333.1  | 2334.5  | 2333.1  | 2341.5 | 2366.4 | 2391.4 | 2392.8 |
| 22.5° | 2396.9 | 2399.7 | 2374.7 | 2348.4 | 2344.2  | 2345.6  | 2344.2  | 2352.6 | 2376.1 | 2401.1 | 2401.1 |
| 25°   | 2398.3 | 2402.5 | 2383.1 | 2362.3 | 2369.2  | 2372.0  | 2369.2  | 2370.6 | 2388.6 | 2410.8 | 2409.4 |
| 27.5° | 2419.1 | 2424.7 | 2406.6 | 2388.6 | 2392.8  | 2391.4  | 2395.6  | 2399.7 | 2413.6 | 2435.8 | 2430.2 |
| 30°   | 2462.1 | 2466.3 | 2451.0 | 2433.0 | 2430.2  | 2420.5  | 2433.0  | 2446.9 | 2462.1 | 2481.6 | 2477.4 |
| 32.5° | 2532.9 | 2541.2 | 2521.8 | 2502.4 | 2489.9  | 2484.3  | 2494.0  | 2517.6 | 2538.4 | 2559.2 | 2550.9 |
| 35°   | 2650.8 | 2656.3 | 2638.3 | 2602.2 | 2580.0  | 2580.0  | 2588.4  | 2618.9 | 2652.2 | 2678.5 | 2668.8 |
| 37.5° | 2817.2 | 2824.2 | 2792.3 | 2749.3 | 2716.0  | 2716.0  | 2727.1  | 2759.0 | 2808.9 | 2846.4 | 2832.5 |
| 40°   | 3019.8 | 3029.5 | 2989.2 | 2944.9 | 2912.9  | 2907.4  | 2921.3  | 2957.3 | 3004.5 | 3051.7 | 3036.4 |
| 42.5° | 3263.9 | 3275.0 | 3222.3 | 3183.4 | 3158.5  | 3158.5  | 3165.4  | 3198.7 | 3241.7 | 3300.0 | 3295.8 |
| 45°   | 3576.0 | 3595.4 | 3523.3 | 3484.4 | 3460.9  | 3466.4  | 3470.6  | 3499.7 | 3538.5 | 3605.1 | 3602.3 |
| 47.5° | 3947.7 | 3967.2 | 3890.9 | 3850.6 | 3846.5  | 3872.8  | 3856.2  | 3877.0 | 3897.8 | 3974.1 | 3951.9 |
| 50°   | 4369.4 | 4402.7 | 4350.0 | 4347.2 | 4355.5  | 4404.1  | 4365.3  | 4376.4 | 4352.8 | 4401.3 | 4372.2 |
| 52.5° | 4885.4 | 4934.0 | 4924.3 | 4940.9 | 5033.9  | 5133.7  | 5044.9  | 5006.1 | 4917.3 | 4932.6 | 4881.3 |
| 55°   | 5511.0 | 5584.5 | 5598.4 | 5698.3 | 5909.1  | 6113.0  | 5924.4  | 5767.6 | 5579.0 | 5544.3 | 5490.2 |
| 57.5° | 6222.6 | 6280.9 | 6347.5 | 6551.4 | 6945.3  | 7307.3  | 6945.3  | 6598.5 | 6301.7 | 6230.9 | 6181.0 |
| 60°   | 6988.3 | 7060.4 | 7124.2 | 7425.2 | 8010.6  | 8519.7  | 7999.5  | 7448.8 | 7056.3 | 6960.6 | 6877.3 |
| 62.5° | 7810.9 | 7903.8 | 7948.2 | 8282.5 | 8964.9  | 9572.5  | 8974.7  | 8307.4 | 7871.9 | 7769.2 | 7686.0 |
| 65°   | 8600.1 | 8676.4 | 8726.4 | 9082.8 | 9734.8  | 10343.7 | 9779.2  | 9121.7 | 8673.6 | 8539.1 | 8472.5 |
| 67.5° | 8967.7 | 9009.3 | 9131.4 | 9535.0 | 10223.1 | 10918.0 | 10339.6 | 9578.0 | 9077.3 | 8841.5 | 8844.3 |
| 70°   | 8429.5 | 8344.9 | 8639.0 | 9285.4 | 10281.3 | 11270.3 | 10414.5 | 9265.9 | 8652.8 | 8270.0 | 8361.5 |
| 72.5° | 6513.9 | 6368.3 | 6878.7 | 7984.2 | 9615.5  | 11045.6 | 9682.1  | 8046.7 | 7196.4 | 6419.6 | 6612.4 |
| 75°   | 3544.1 | 3379.0 | 4083.7 | 5481.9 | 7668.0  | 9573.9  | 7844.2  | 5638.6 | 4547.0 | 3517.7 | 3746.6 |
| 77.5° | 1000.1 | 937.7  | 1506.4 | 2652.2 | 4612.2  | 6722.0  | 4789.7  | 2710.4 | 1786.6 | 1059.8 | 1177.7 |
| 80°   | 306.6  | 296.8  | 402.3  | 799.0  | 1958.6  | 3219.5  | 1882.3  | 808.7  | 511.8  | 323.2  | 341.2  |
| 82.5° | 181.7  | 166.5  | 199.7  | 291.3  | 499.4   | 1011.2  | 485.5   | 303.8  | 244.1  | 163.7  | 177.6  |
| 85°   | 104.0  | 97.1   | 117.9  | 141.5  | 167.8   | 215.0   | 140.1   | 144.3  | 130.4  | 87.4   | 91.5   |
| 87.5° | 43.0   | 38.8   | 45.8   | 44.4   | 38.8    | 49.9    | 37.5    | 44.4   | 52.7   | 34.7   | 31.9   |
| 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)