

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: P458921

Luminaire Tested: **GALN-SA4C-735-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458921  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4C-735-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27115 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

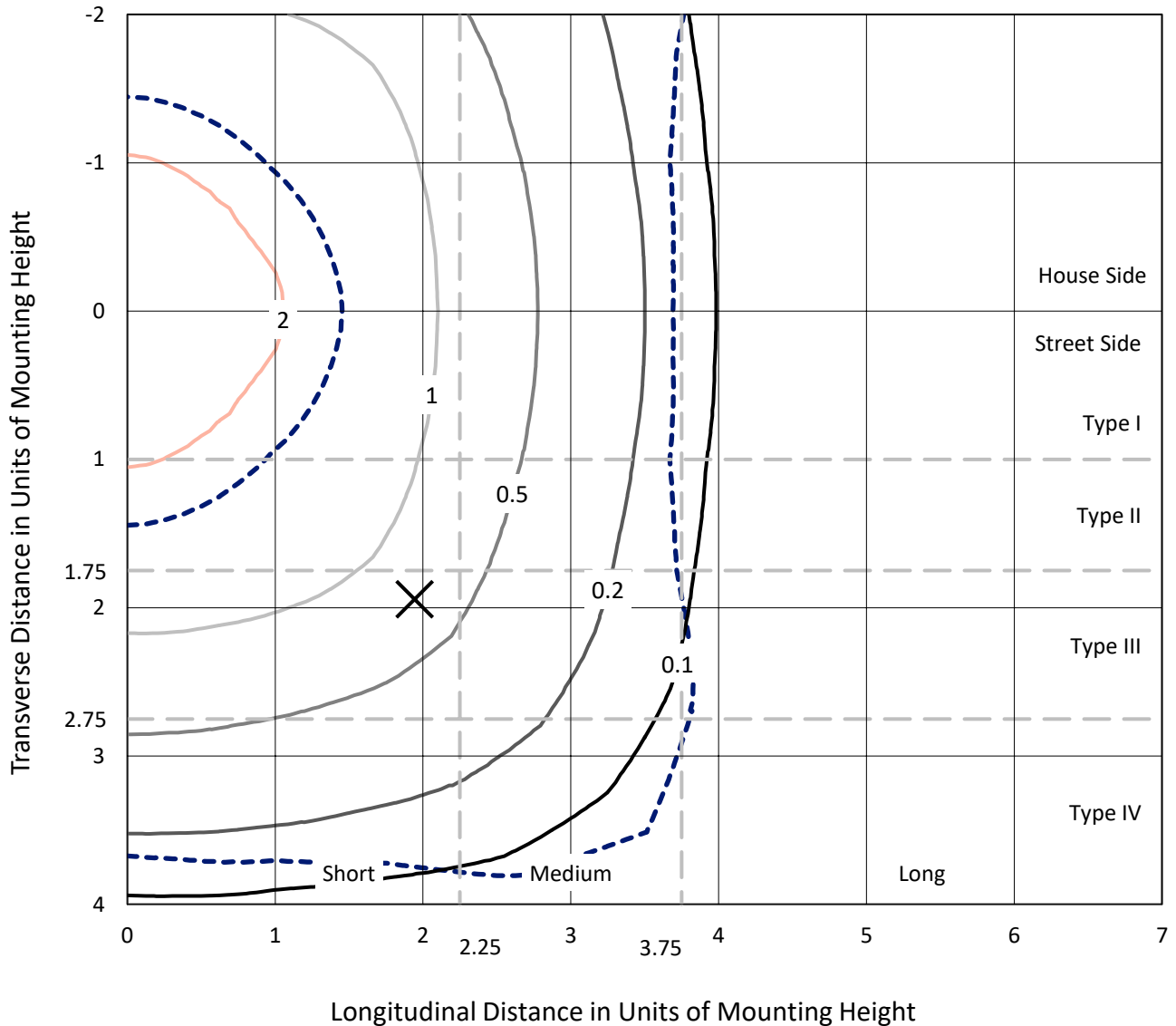
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

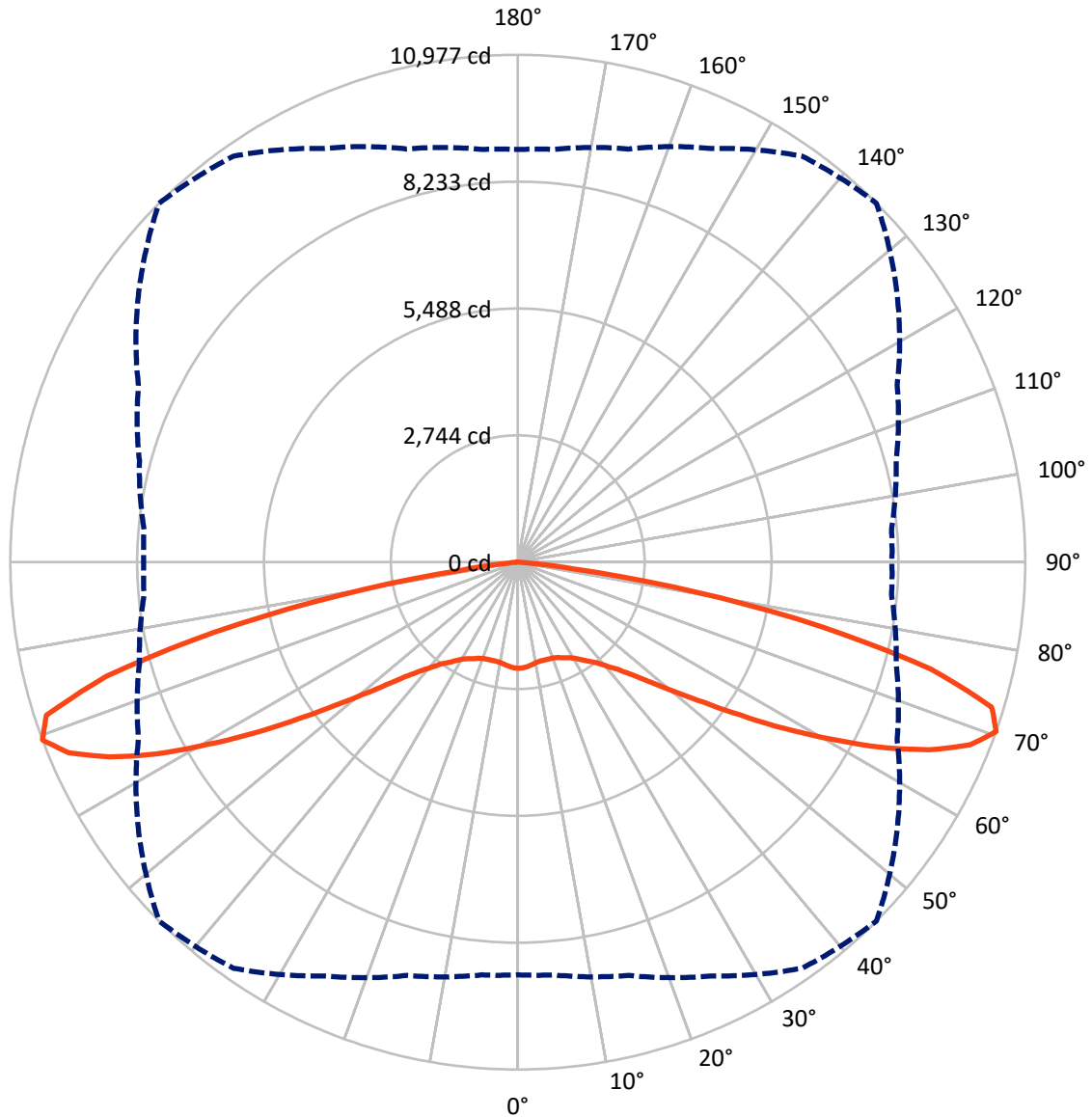
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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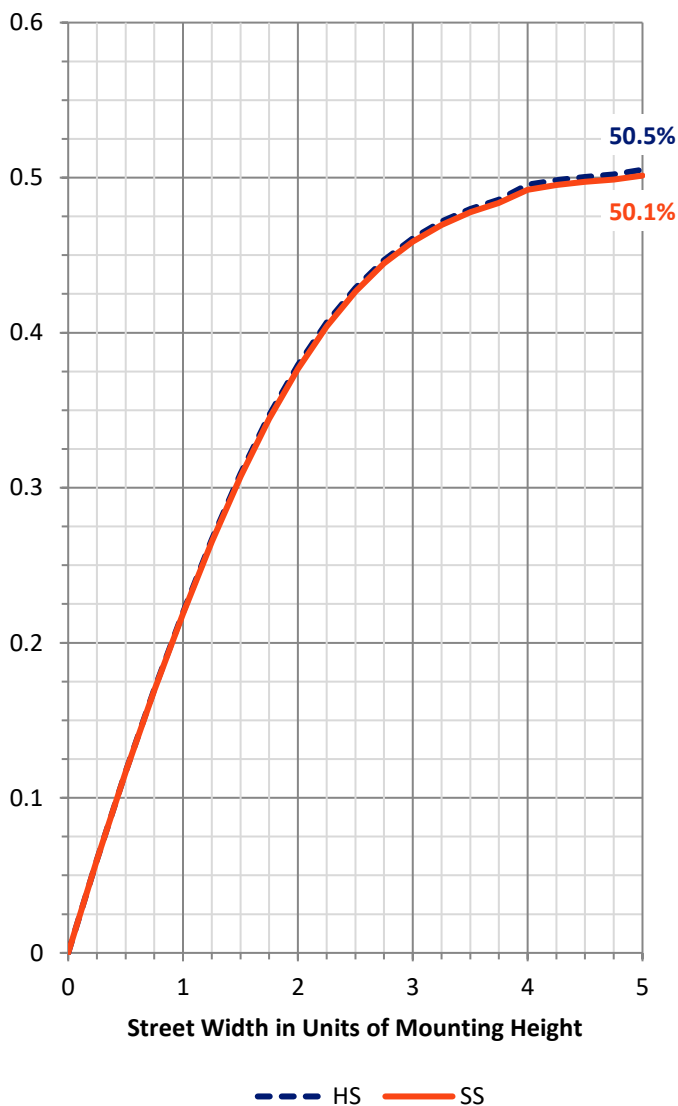
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13557.5  | 0.0    | 13557.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 13557.5  | 0.0    | 13557.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 27115.0  | 0.0    | 27115.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 214.7   | 0.8       |
| 10°-20°   | 628.5   | 2.3       |
| 20°-30°   | 1070.8  | 3.9       |
| 30°-40°   | 1659.8  | 6.1       |
| 40°-50°   | 2793.6  | 10.3      |
| 50°-60°   | 5082.8  | 18.7      |
| 60°-70°   | 8605.1  | 31.7      |
| 70°-80°   | 6660.7  | 24.6      |
| 80°-90°   | 399.1   | 1.5       |
| 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°    | 27115.0 | 100.0     |
| 0°-180°   | 27115.0 | 100.0     |

**Coefficient of Utilization**



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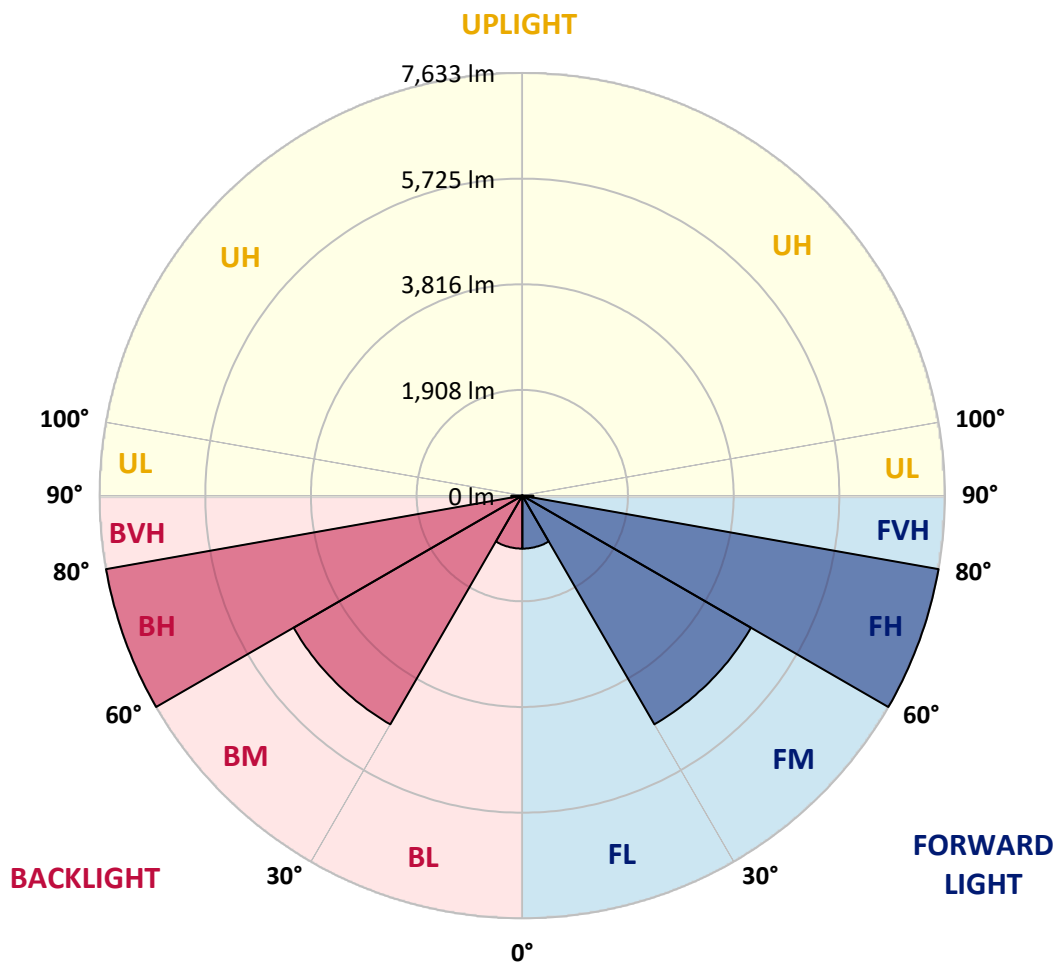
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 957.0  | 3.5       |                         |      |          |
| FM (30°-60°)   | 4768.1 | 17.6      |                         |      |          |
| FH (60°-80°)   | 7632.9 | 28.1      |                         |      | G4/12000 |
| FVH (80°-90°)  | 199.6  | 0.7       |                         |      | G2/225   |
| BL (0°-30°)    | 957.0  | 3.5       | B2/1000                 |      |          |
| BM (30°-60°)   | 4768.1 | 17.6      | B3/5000                 |      |          |
| BH (60°-80°)   | 7632.9 | 28.1      | B5                      |      | G4/12000 |
| BVH (80°-90°)  | 199.6  | 0.7       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 2295.6 | 2295.6 | 2295.6 | 2295.6 | 2295.6  | 2295.6  | 2295.6  | 2295.6 | 2295.6 | 2295.6 | 2295.6 |
| 2.5°  | 2289.9 | 2291.3 | 2291.3 | 2288.5 | 2287.0  | 2287.0  | 2285.6  | 2285.6 | 2289.9 | 2291.3 | 2292.8 |
| 5°    | 2269.8 | 2269.8 | 2269.8 | 2268.4 | 2265.5  | 2265.5  | 2262.7  | 2262.7 | 2264.1 | 2268.4 | 2265.5 |
| 7.5°  | 2242.6 | 2245.5 | 2245.5 | 2239.8 | 2235.5  | 2235.5  | 2234.0  | 2235.5 | 2236.9 | 2241.2 | 2239.8 |
| 10°   | 2234.0 | 2235.5 | 2228.3 | 2218.3 | 2211.1  | 2206.8  | 2208.3  | 2211.1 | 2218.3 | 2221.1 | 2222.6 |
| 12.5° | 2239.8 | 2239.8 | 2226.9 | 2212.6 | 2199.7  | 2193.9  | 2192.5  | 2202.5 | 2215.4 | 2224.0 | 2226.9 |
| 15°   | 2246.9 | 2244.1 | 2228.3 | 2209.7 | 2196.8  | 2195.4  | 2193.9  | 2201.1 | 2219.7 | 2236.9 | 2238.3 |
| 17.5° | 2251.2 | 2249.8 | 2229.7 | 2206.8 | 2199.7  | 2199.7  | 2198.2  | 2204.0 | 2224.0 | 2245.5 | 2246.9 |
| 20°   | 2265.5 | 2261.2 | 2238.3 | 2214.0 | 2208.3  | 2211.1  | 2206.8  | 2214.0 | 2235.5 | 2261.2 | 2267.0 |
| 22.5° | 2294.2 | 2289.9 | 2267.0 | 2242.6 | 2239.8  | 2239.8  | 2238.3  | 2245.5 | 2268.4 | 2295.6 | 2299.9 |
| 25°   | 2328.6 | 2324.3 | 2302.8 | 2285.6 | 2288.5  | 2294.2  | 2291.3  | 2292.8 | 2311.4 | 2334.3 | 2341.4 |
| 27.5° | 2374.4 | 2367.2 | 2348.6 | 2334.3 | 2342.9  | 2342.9  | 2342.9  | 2341.4 | 2352.9 | 2374.4 | 2381.5 |
| 30°   | 2430.2 | 2427.4 | 2407.3 | 2405.9 | 2413.0  | 2405.9  | 2405.9  | 2407.3 | 2408.8 | 2428.8 | 2436.0 |
| 32.5° | 2503.3 | 2497.5 | 2487.5 | 2484.7 | 2504.7  | 2510.4  | 2490.4  | 2471.8 | 2481.8 | 2501.8 | 2506.1 |
| 35°   | 2623.6 | 2615.0 | 2600.6 | 2584.9 | 2600.6  | 2627.9  | 2584.9  | 2570.6 | 2596.4 | 2623.6 | 2626.4 |
| 37.5° | 2786.8 | 2782.5 | 2759.6 | 2731.0 | 2729.5  | 2758.2  | 2713.8  | 2712.4 | 2761.0 | 2794.0 | 2798.3 |
| 40°   | 2991.6 | 2995.9 | 2967.3 | 2940.1 | 2925.7  | 2948.6  | 2914.3  | 2927.2 | 2974.4 | 3011.7 | 3008.8 |
| 42.5° | 3279.5 | 3263.7 | 3219.3 | 3193.5 | 3177.8  | 3169.2  | 3160.6  | 3180.6 | 3233.6 | 3273.7 | 3305.2 |
| 45°   | 3616.0 | 3610.3 | 3554.4 | 3522.9 | 3488.5  | 3475.6  | 3472.8  | 3508.6 | 3573.0 | 3621.7 | 3626.0 |
| 47.5° | 3996.9 | 3984.0 | 3948.2 | 3915.3 | 3902.4  | 3886.7  | 3872.3  | 3899.5 | 3964.0 | 3998.4 | 4008.4 |
| 50°   | 4389.3 | 4392.2 | 4392.2 | 4386.4 | 4399.3  | 4402.2  | 4363.5  | 4373.6 | 4409.4 | 4406.5 | 4403.6 |
| 52.5° | 4837.6 | 4853.3 | 4927.8 | 4934.9 | 4996.5  | 5038.0  | 4967.9  | 4926.3 | 4913.5 | 4836.1 | 4841.8 |
| 55°   | 5364.6 | 5378.9 | 5490.6 | 5602.3 | 5768.4  | 5838.6  | 5691.1  | 5562.2 | 5470.5 | 5353.1 | 5358.8 |
| 57.5° | 6021.9 | 6029.0 | 6135.0 | 6349.8 | 6613.3  | 6778.0  | 6518.8  | 6263.9 | 6077.7 | 5966.0 | 5921.6 |
| 60°   | 6729.3 | 6736.5 | 6891.1 | 7153.2 | 7562.8  | 7763.3  | 7442.5  | 7025.8 | 6790.9 | 6620.5 | 6631.9 |
| 62.5° | 7578.5 | 7607.2 | 7746.1 | 8107.0 | 8603.9  | 8828.7  | 8403.4  | 7846.3 | 7528.4 | 7316.5 | 7325.1 |
| 65°   | 8487.9 | 8536.6 | 8688.4 | 9085.1 | 9543.4  | 9785.4  | 9264.1  | 8621.1 | 8225.8 | 7966.6 | 7993.8 |
| 67.5° | 9077.9 | 9120.9 | 9340.0 | 9778.2 | 10349.6 | 10550.1 | 9877.0  | 9128.0 | 8634.0 | 8324.7 | 8267.4 |
| 70°   | 8927.6 | 8963.4 | 9255.5 | 9877.0 | 10723.4 | 10976.9 | 10023.1 | 9053.6 | 8472.2 | 8115.6 | 8092.7 |
| 72.5° | 7880.7 | 7806.2 | 8233.0 | 9125.2 | 10296.6 | 10721.9 | 9563.4  | 8268.8 | 7537.0 | 7170.4 | 7127.4 |
| 75°   | 5222.8 | 5384.6 | 6014.7 | 7065.9 | 8711.3  | 9238.3  | 8162.8  | 6639.1 | 5718.3 | 5413.2 | 5366.0 |
| 77.5° | 1745.7 | 1870.3 | 2430.2 | 4005.5 | 5938.8  | 6730.8  | 5947.4  | 4342.1 | 3071.8 | 2474.6 | 2486.1 |
| 80°   | 462.6  | 456.8  | 591.4  | 1101.3 | 2566.3  | 3898.1  | 2987.3  | 1470.7 | 804.8  | 582.9  | 552.8  |
| 82.5° | 166.1  | 186.2  | 239.2  | 305.0  | 680.2   | 1211.5  | 854.9   | 412.4  | 302.2  | 223.4  | 216.2  |
| 85°   | 73.0   | 71.6   | 103.1  | 121.7  | 170.4   | 226.3   | 200.5   | 174.7  | 153.2  | 101.7  | 94.5   |
| 87.5° | 15.8   | 15.8   | 24.3   | 18.6   | 30.1    | 30.1    | 37.2    | 44.4   | 45.8   | 30.1   | 24.3   |
| 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)