

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: P948778

Luminaire Tested: **GALN-SB3D-727-U-5MQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P948778  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3D-727-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 29658 lumens  
Efficiency: N/A  
Efficacy: 136.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 218.1  
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



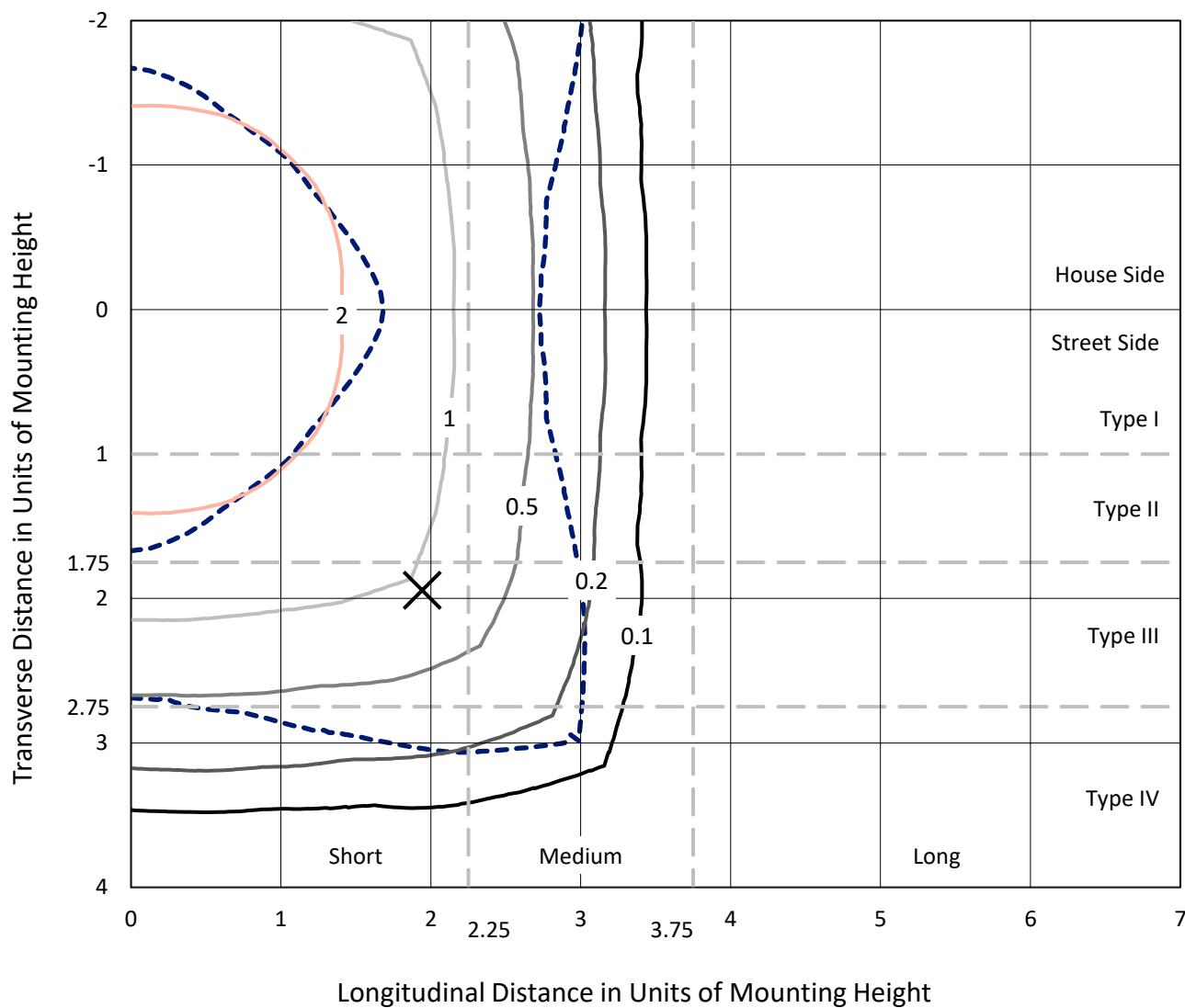
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

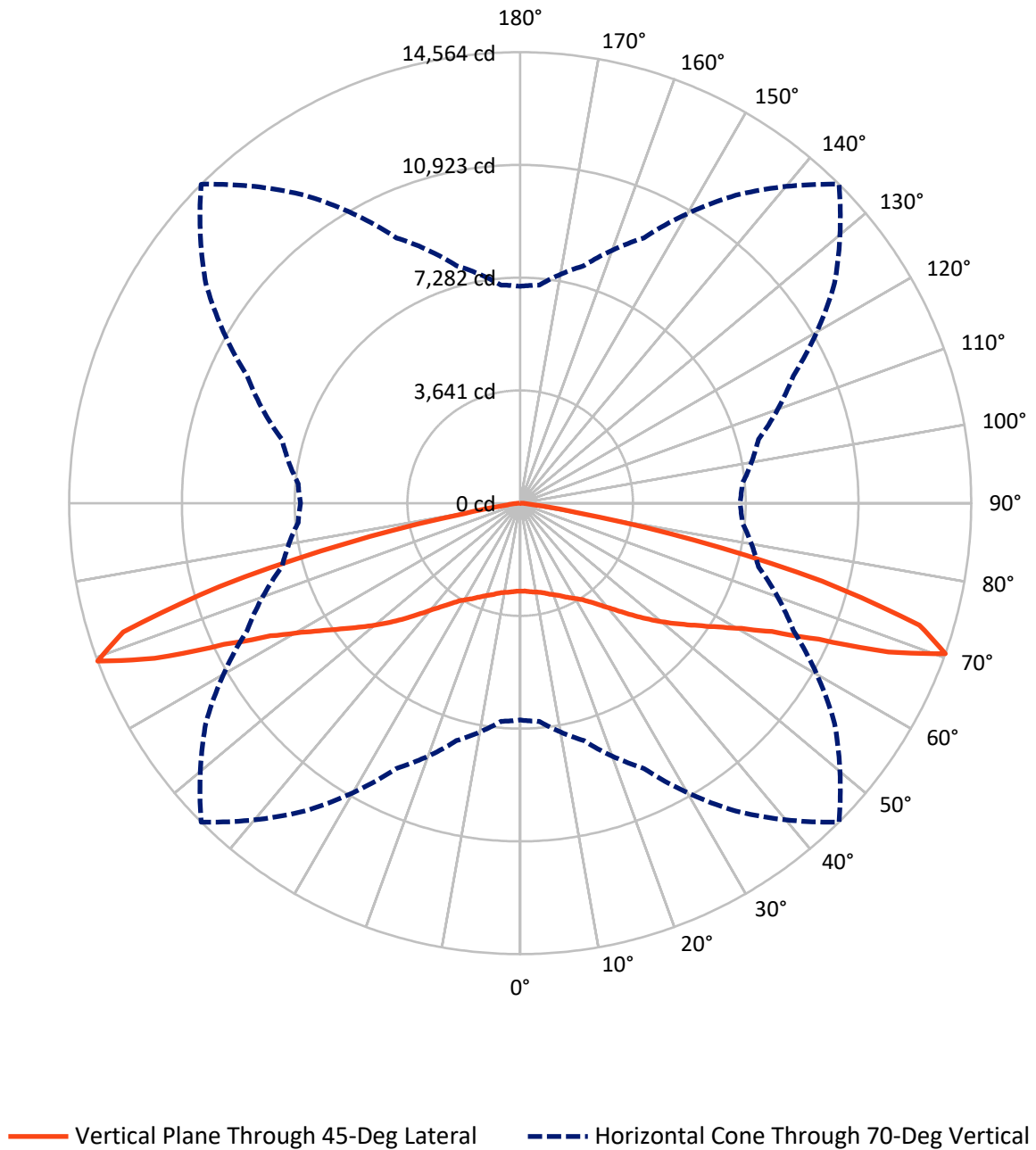


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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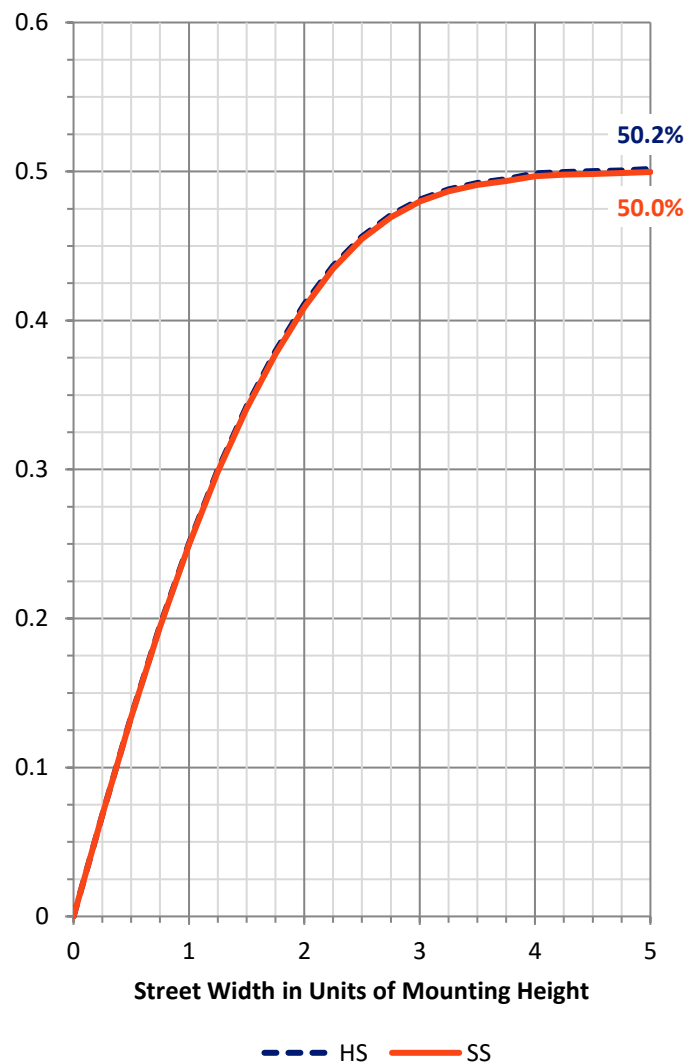
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 14829.0  | 0.0    | 14829.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 14829.0  | 0.0    | 14829.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 29658.0  | 0.0    | 29658.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 276.0   | 0.9       |
| 10°-20°   | 855.8   | 2.9       |
| 20°-30°   | 1529.5  | 5.2       |
| 30°-40°   | 2479.3  | 8.4       |
| 40°-50°   | 4038.3  | 13.6      |
| 50°-60°   | 6157.0  | 20.8      |
| 60°-70°   | 9159.7  | 30.9      |
| 70°-80°   | 4992.3  | 16.8      |
| 80°-90°   | 170.0   | 0.6       |
| 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°    | 29658.0 | 100.0     |
| 0°-180°   | 29658.0 | 100.0     |

**Coefficient of Utilization**



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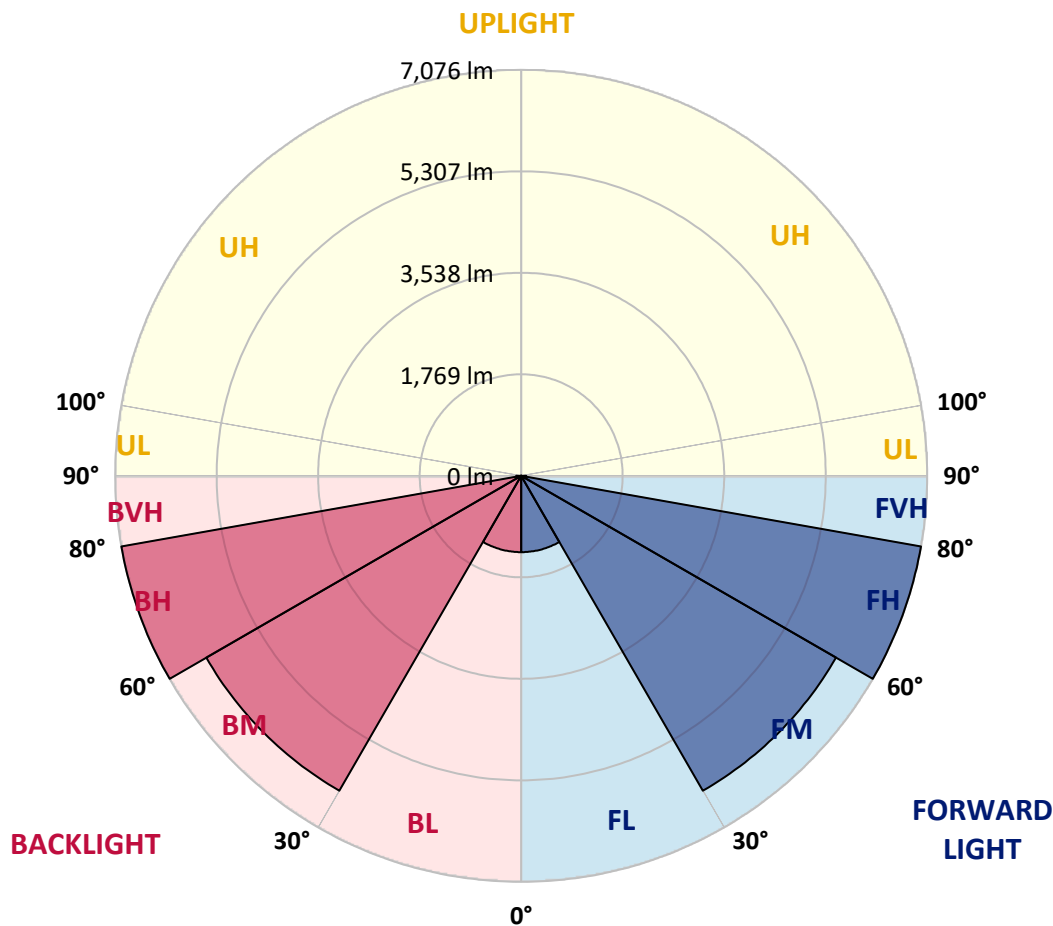
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1330.7 | 4.5       |                         |      |         |
| FM   | (30°-60°)   | 6337.3 | 21.4      |                         |      |         |
| FH   | (60°-80°)   | 7076.0 | 23.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 85.0   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1330.7 | 4.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 6337.3 | 21.4      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 7076.0 | 23.9      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 85.0   | 0.3       |                         |      | G1/100  |
| 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°    | 2840.9 | 2840.9 | 2840.9 | 2840.9  | 2840.9  | 2840.9  | 2840.9  | 2840.9  | 2840.9 | 2840.9 | 2840.9 |
| 2.5°  | 2854.3 | 2857.3 | 2851.4 | 2848.4  | 2845.4  | 2840.9  | 2842.4  | 2849.9  | 2855.8 | 2854.3 | 2855.8 |
| 5°    | 2878.2 | 2881.1 | 2876.7 | 2875.2  | 2869.2  | 2867.7  | 2867.7  | 2875.2  | 2879.6 | 2876.7 | 2878.2 |
| 7.5°  | 2905.0 | 2909.4 | 2902.0 | 2900.5  | 2897.5  | 2894.5  | 2893.0  | 2900.5  | 2905.0 | 2905.0 | 2905.0 |
| 10°   | 2930.3 | 2934.7 | 2928.8 | 2924.3  | 2921.3  | 2921.3  | 2918.4  | 2924.3  | 2931.8 | 2930.3 | 2930.3 |
| 12.5° | 2957.1 | 2960.0 | 2954.1 | 2951.1  | 2951.1  | 2955.6  | 2951.1  | 2954.1  | 2960.0 | 2957.1 | 2955.6 |
| 15°   | 2989.8 | 2991.3 | 2989.8 | 2994.3  | 3001.7  | 3016.6  | 3003.2  | 3000.2  | 3003.2 | 2995.8 | 2995.8 |
| 17.5° | 3034.5 | 3037.5 | 3043.4 | 3053.9  | 3064.3  | 3091.1  | 3067.3  | 3059.8  | 3059.8 | 3044.9 | 3044.9 |
| 20°   | 3089.6 | 3094.1 | 3103.0 | 3120.9  | 3134.3  | 3159.6  | 3135.7  | 3125.3  | 3120.9 | 3101.5 | 3101.5 |
| 22.5° | 3147.7 | 3155.1 | 3168.5 | 3192.3  | 3216.1  | 3240.0  | 3216.1  | 3198.3  | 3184.9 | 3159.6 | 3158.1 |
| 25°   | 3214.7 | 3223.6 | 3244.4 | 3283.1  | 3315.9  | 3350.2  | 3321.9  | 3286.1  | 3259.3 | 3223.6 | 3222.1 |
| 27.5° | 3310.0 | 3320.4 | 3345.7 | 3393.3  | 3435.0  | 3464.8  | 3438.0  | 3391.8  | 3354.6 | 3311.4 | 3310.0 |
| 30°   | 3444.0 | 3454.4 | 3484.2 | 3534.8  | 3563.1  | 3582.4  | 3564.6  | 3528.8  | 3484.2 | 3435.0 | 3435.0 |
| 32.5° | 3616.7 | 3630.1 | 3662.8 | 3710.5  | 3716.4  | 3719.4  | 3713.5  | 3695.6  | 3662.8 | 3603.3 | 3604.8 |
| 35°   | 3835.6 | 3850.4 | 3887.7 | 3926.4  | 3920.4  | 3926.4  | 3917.4  | 3911.5  | 3887.7 | 3819.2 | 3819.2 |
| 37.5° | 4103.6 | 4121.4 | 4160.1 | 4189.9  | 4175.0  | 4167.6  | 4169.1  | 4170.6  | 4157.2 | 4081.2 | 4081.2 |
| 40°   | 4414.8 | 4438.6 | 4466.9 | 4498.1  | 4472.8  | 4450.5  | 4465.4  | 4477.3  | 4465.4 | 4388.0 | 4388.0 |
| 42.5° | 4734.9 | 4769.1 | 4798.9 | 4843.6  | 4822.7  | 4794.4  | 4815.3  | 4828.7  | 4803.4 | 4720.0 | 4725.9 |
| 45°   | 5090.7 | 5123.5 | 5162.2 | 5229.2  | 5214.3  | 5184.5  | 5214.3  | 5217.3  | 5174.1 | 5075.9 | 5086.3 |
| 47.5° | 5458.5 | 5492.8 | 5550.8 | 5640.2  | 5634.2  | 5601.5  | 5640.2  | 5619.3  | 5564.2 | 5446.6 | 5439.2 |
| 50°   | 5806.9 | 5854.6 | 5943.9 | 6069.0  | 6080.9  | 6040.7  | 6092.8  | 6052.6  | 5960.3 | 5812.9 | 5809.9 |
| 52.5° | 6134.5 | 6185.1 | 6326.6 | 6496.3  | 6539.5  | 6487.4  | 6557.4  | 6487.4  | 6348.9 | 6159.8 | 6141.9 |
| 55°   | 6478.5 | 6535.0 | 6703.3 | 6925.1  | 7011.5  | 6972.8  | 7038.3  | 6932.6  | 6736.0 | 6506.7 | 6475.5 |
| 57.5° | 6883.4 | 6917.7 | 7118.7 | 7382.2  | 7528.2  | 7537.1  | 7566.9  | 7388.2  | 7150.0 | 6889.4 | 6853.7 |
| 60°   | 7322.7 | 7370.3 | 7589.2 | 7904.9  | 8135.7  | 8210.1  | 8178.8  | 7913.8  | 7636.9 | 7337.6 | 7289.9 |
| 62.5° | 7885.5 | 7937.6 | 8199.7 | 8577.9  | 8942.7  | 9127.3  | 9005.2  | 8621.1  | 8278.6 | 7919.8 | 7857.2 |
| 65°   | 8351.6 | 8409.6 | 8883.1 | 9557.6  | 10221.7 | 10592.4 | 10285.7 | 9578.5  | 8962.0 | 8455.8 | 8372.4 |
| 67.5° | 8013.6 | 8085.0 | 8828.0 | 10066.8 | 11718.1 | 12824.4 | 11774.7 | 10218.7 | 9011.2 | 8324.8 | 8222.0 |
| 70°   | 7004.1 | 7071.1 | 7937.6 | 9451.9  | 12139.5 | 14563.5 | 12392.6 | 9730.3  | 7965.9 | 7197.6 | 7094.9 |
| 72.5° | 4650.0 | 4865.9 | 5742.9 | 7559.4  | 10839.6 | 13476.5 | 10946.8 | 7406.1  | 5327.5 | 4639.6 | 4489.2 |
| 75°   | 1542.6 | 1715.3 | 2313.8 | 3918.9  | 7260.2  | 10078.7 | 6911.7  | 3467.8  | 1832.9 | 1319.2 | 1247.7 |
| 77.5° | 388.6  | 448.2  | 617.9  | 1121.2  | 2896.0  | 5738.4  | 2607.2  | 915.7   | 498.8  | 348.4  | 311.2  |
| 80°   | 189.1  | 208.5  | 297.8  | 373.7   | 725.1   | 1824.0  | 680.5   | 351.4   | 235.3  | 181.7  | 166.8  |
| 82.5° | 104.2  | 105.7  | 168.3  | 211.4   | 269.5   | 472.0   | 279.9   | 205.5   | 135.5  | 110.2  | 110.2  |
| 85°   | 64.0   | 62.5   | 89.3   | 113.2   | 113.2   | 168.3   | 134.0   | 113.2   | 77.4   | 68.5   | 71.5   |
| 87.5° | 25.3   | 25.3   | 32.8   | 35.7    | 31.3    | 43.2    | 34.2    | 37.2    | 29.8   | 28.3   | 29.8   |
| 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)