

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: P640716

Luminaire Tested: GWS-SA5E-740-U-5WQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640716  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-740-U-5WQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

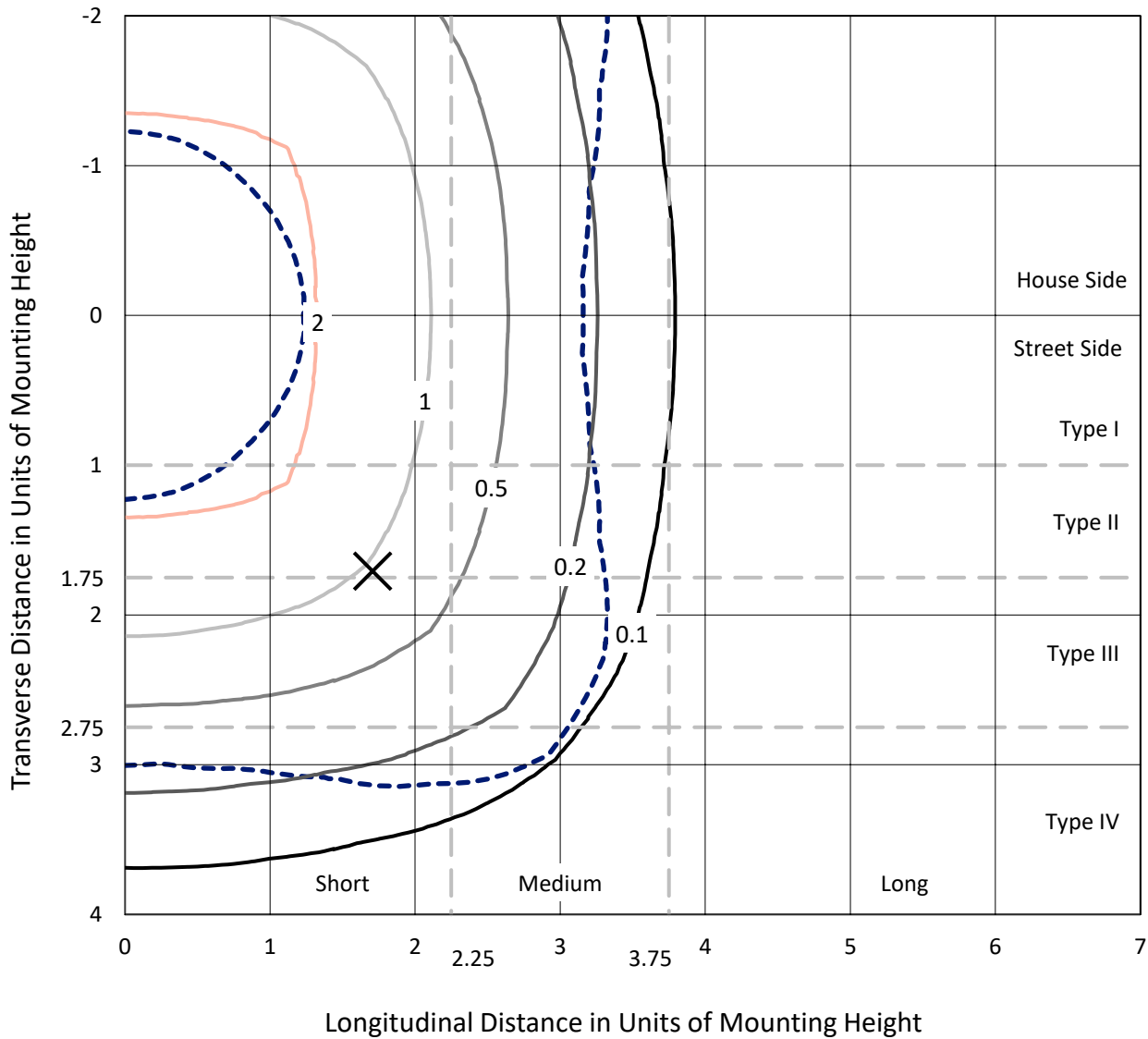
Lumens per Lamp: N/A  
Luminaire Lumens: 38058.7 lumens  
Efficiency: N/A  
Efficacy: 141.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

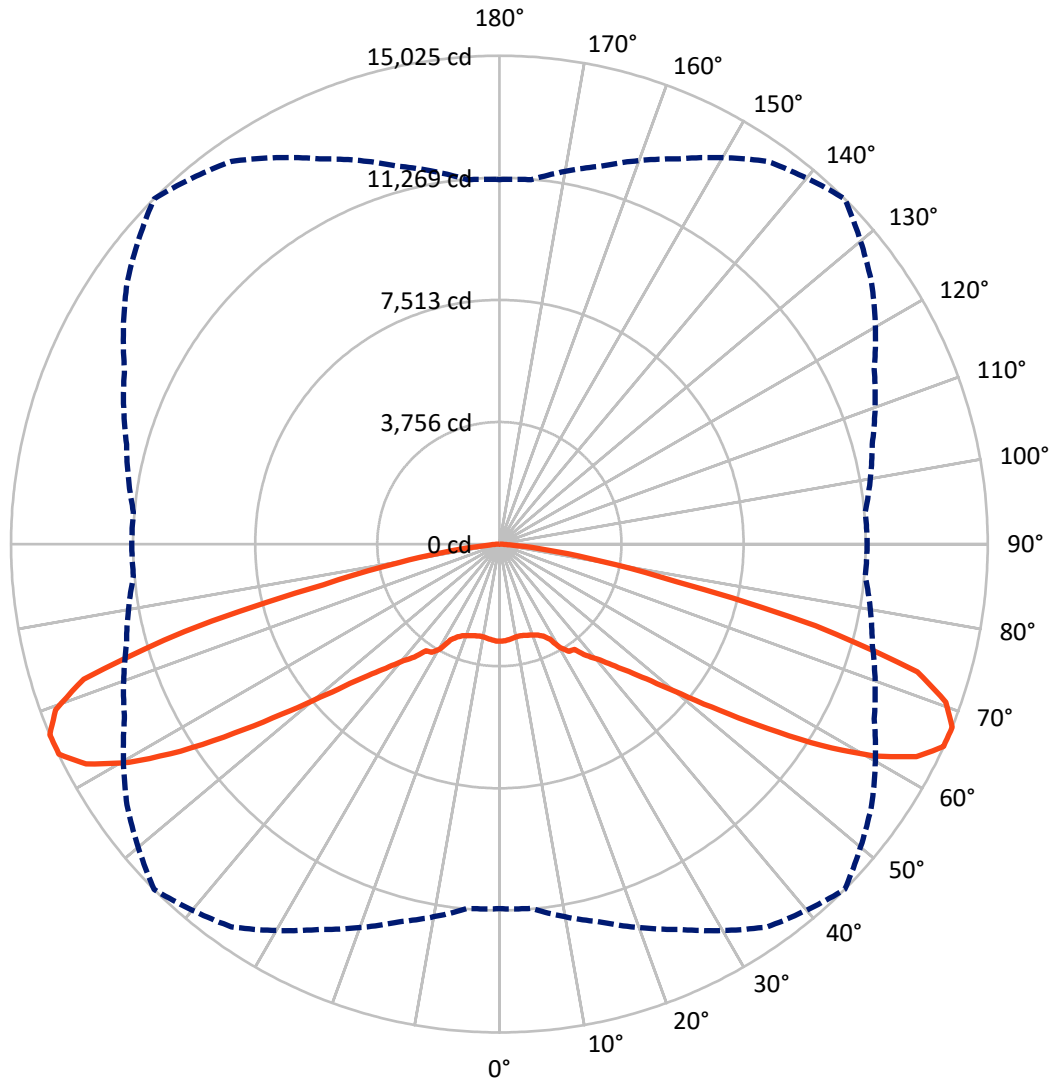
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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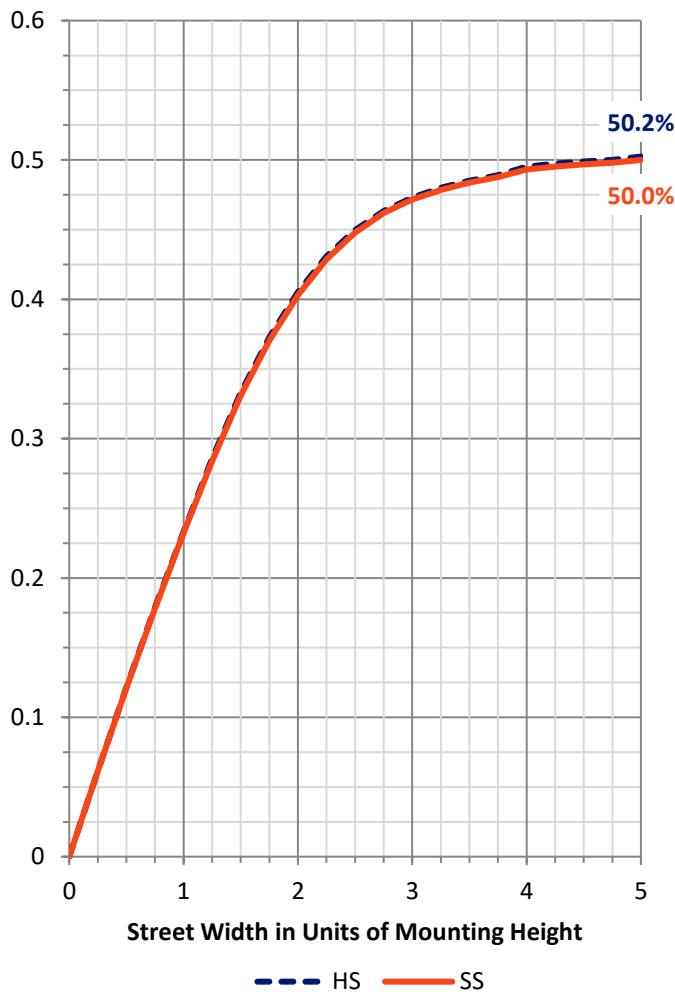
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 19029.3  | 0.0    | 19029.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 19029.3  | 0.0    | 19029.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 38058.7  | 0.0    | 38058.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 280.2   | 0.7       |
| 10°-20°   | 831.6   | 2.2       |
| 20°-30°   | 1491.8  | 3.9       |
| 30°-40°   | 2520.0  | 6.6       |
| 40°-50°   | 4427.7  | 11.6      |
| 50°-60°   | 8541.2  | 22.4      |
| 60°-70°   | 12392.1 | 32.6      |
| 70°-80°   | 7090.2  | 18.6      |
| 80°-90°   | 483.9   | 1.3       |
| 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°    | 38058.7 | 100.0     |
| 0°-180°   | 38058.7 | 100.0     |

**Coefficient of Utilization**



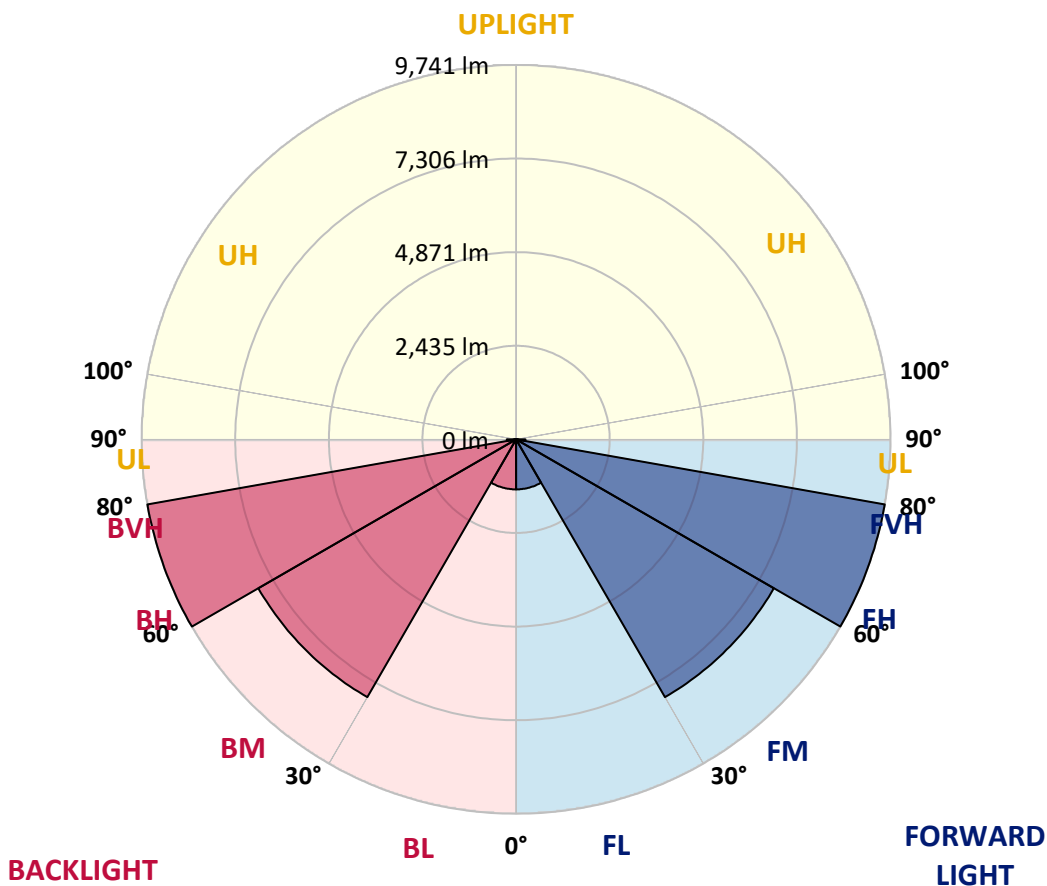
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1301.8 | 3.4       |                         |      |          |
| FM (30°-60°)   | 7744.4 | 20.3      |                         |      |          |
| FH (60°-80°)   | 9741.1 | 25.6      |                         |      | G4/12000 |
| FVH (80°-90°)  | 242.0  | 0.6       |                         |      | G3/500   |
| BL (0°-30°)    | 1301.8 | 3.4       | B3/2500                 |      |          |
| BM (30°-60°)   | 7744.4 | 20.3      | B4/8500                 |      |          |
| BH (60°-80°)   | 9741.1 | 25.6      | B5                      |      | G4/12000 |
| BVH (80°-90°)  | 242.0  | 0.6       |                         |      | G3/500   |
| 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°    | 2984.6  | 2984.6  | 2984.6  | 2984.6  | 2984.6  | 2984.6  | 2984.6  | 2984.6  | 2984.6  | 2984.6  | 2984.6  |
| 2.5°  | 2960.4  | 2963.0  | 2968.4  | 2968.4  | 2973.8  | 2981.9  | 2984.6  | 2979.2  | 2981.9  | 2968.4  | 2981.9  |
| 5°    | 2952.3  | 2955.0  | 2957.7  | 2952.3  | 2952.3  | 2955.0  | 2955.0  | 2949.6  | 2952.3  | 2938.8  | 2952.3  |
| 7.5°  | 2933.4  | 2936.1  | 2936.1  | 2928.1  | 2920.0  | 2925.4  | 2925.4  | 2920.0  | 2922.7  | 2909.2  | 2925.4  |
| 10°   | 2917.3  | 2917.3  | 2914.6  | 2898.5  | 2890.4  | 2898.5  | 2901.2  | 2903.8  | 2914.6  | 2903.8  | 2922.7  |
| 12.5° | 2928.1  | 2928.1  | 2920.0  | 2898.5  | 2885.0  | 2890.4  | 2895.8  | 2901.2  | 2920.0  | 2917.3  | 2938.8  |
| 15°   | 2957.7  | 2960.4  | 2938.8  | 2914.6  | 2906.5  | 2914.6  | 2909.2  | 2906.5  | 2930.8  | 2938.8  | 2963.0  |
| 17.5° | 2981.9  | 2981.9  | 2955.0  | 2930.8  | 2933.4  | 2946.9  | 2936.1  | 2922.7  | 2946.9  | 2963.0  | 2990.0  |
| 20°   | 3003.4  | 3000.7  | 2971.1  | 2955.0  | 2965.7  | 2984.6  | 2976.5  | 2957.7  | 2973.8  | 2992.7  | 3016.9  |
| 22.5° | 3057.2  | 3054.6  | 3022.3  | 3014.2  | 3024.9  | 3043.8  | 3035.7  | 3019.6  | 3038.4  | 3065.3  | 3094.9  |
| 25°   | 3210.6  | 3205.3  | 3156.8  | 3129.9  | 3124.5  | 3138.0  | 3135.3  | 3129.9  | 3159.5  | 3191.8  | 3226.8  |
| 27.5° | 3415.2  | 3412.5  | 3377.5  | 3350.6  | 3315.6  | 3304.8  | 3312.9  | 3337.1  | 3380.2  | 3404.4  | 3434.0  |
| 30°   | 3517.4  | 3517.4  | 3512.1  | 3555.1  | 3630.5  | 3703.1  | 3646.6  | 3555.1  | 3517.4  | 3506.7  | 3536.3  |
| 32.5° | 3652.0  | 3665.5  | 3646.6  | 3695.1  | 3821.6  | 3929.2  | 3821.6  | 3673.5  | 3646.6  | 3646.6  | 3678.9  |
| 35°   | 3961.5  | 3966.9  | 3937.3  | 3929.2  | 3969.6  | 3983.0  | 3931.9  | 3878.1  | 3907.7  | 3913.1  | 3953.4  |
| 37.5° | 4209.1  | 4209.1  | 4195.6  | 4217.2  | 4300.6  | 4351.7  | 4268.3  | 4171.4  | 4179.5  | 4184.9  | 4236.0  |
| 40°   | 4591.2  | 4602.0  | 4569.7  | 4567.0  | 4599.3  | 4645.1  | 4556.3  | 4494.4  | 4537.4  | 4550.9  | 4628.9  |
| 42.5° | 5067.6  | 5067.6  | 5019.2  | 5005.7  | 5027.2  | 5075.7  | 4992.2  | 4951.9  | 5008.4  | 5019.2  | 5064.9  |
| 45°   | 5635.4  | 5648.9  | 5584.3  | 5560.1  | 5570.9  | 5587.0  | 5527.8  | 5509.0  | 5562.8  | 5587.0  | 5667.7  |
| 47.5° | 6327.1  | 6340.5  | 6284.0  | 6281.3  | 6270.6  | 6281.3  | 6224.8  | 6214.1  | 6257.1  | 6238.3  | 6324.4  |
| 50°   | 7180.2  | 7204.4  | 7156.0  | 7223.3  | 7215.2  | 7247.5  | 7169.4  | 7112.9  | 7112.9  | 7061.8  | 7110.2  |
| 52.5° | 8135.6  | 8184.0  | 8208.3  | 8321.3  | 8407.4  | 8488.2  | 8359.0  | 8270.2  | 8141.0  | 8036.0  | 8167.9  |
| 55°   | 9177.1  | 9163.7  | 9317.1  | 9564.6  | 9817.6  | 10008.7 | 9755.7  | 9475.8  | 9265.9  | 9047.9  | 9099.1  |
| 57.5° | 10089.4 | 10135.2 | 10337.0 | 10789.2 | 11289.7 | 11693.4 | 11238.6 | 10700.3 | 10224.0 | 9911.8  | 9954.9  |
| 60°   | 10848.4 | 10886.0 | 11155.2 | 11806.4 | 12681.1 | 13238.2 | 12516.9 | 11628.8 | 10937.2 | 10506.6 | 10552.3 |
| 62.5° | 11548.1 | 11583.1 | 11854.9 | 12573.4 | 13676.9 | 14403.5 | 13472.3 | 12258.6 | 11488.9 | 11055.6 | 11082.5 |
| 65°   | 11951.8 | 11973.3 | 12344.7 | 13100.9 | 14263.5 | 15014.4 | 13964.8 | 12713.4 | 11957.2 | 11515.8 | 11531.9 |
| 67.5° | 11217.1 | 11252.1 | 12035.2 | 13079.4 | 14376.6 | 15025.2 | 13986.3 | 12726.8 | 11876.4 | 11300.5 | 11313.9 |
| 70°   | 8848.8  | 8819.2  | 9753.0  | 11548.1 | 13728.0 | 14573.0 | 13364.7 | 11771.5 | 10458.1 | 9653.5  | 9640.0  |
| 72.5° | 6746.9  | 6755.0  | 7274.4  | 8504.3  | 11192.8 | 13448.1 | 11793.0 | 9478.5  | 8062.9  | 7452.0  | 7427.8  |
| 75°   | 4892.7  | 4968.0  | 5390.5  | 6292.1  | 7828.8  | 10051.8 | 8878.4  | 7024.1  | 6076.8  | 5710.8  | 5657.0  |
| 77.5° | 2204.1  | 2301.0  | 2890.4  | 3950.7  | 5234.5  | 5554.7  | 5576.2  | 4768.9  | 3598.2  | 2990.0  | 2895.8  |
| 80°   | 643.2   | 689.0   | 885.4   | 1515.2  | 2438.3  | 3151.4  | 2502.8  | 2104.5  | 1310.6  | 1028.1  | 979.6   |
| 82.5° | 271.8   | 309.5   | 379.5   | 419.8   | 707.8   | 1461.3  | 909.6   | 578.6   | 538.2   | 436.0   | 398.3   |
| 85°   | 115.7   | 123.8   | 158.8   | 169.5   | 228.8   | 312.2   | 288.0   | 261.0   | 250.3   | 193.8   | 177.6   |
| 87.5° | 48.4    | 48.4    | 48.4    | 43.1    | 40.4    | 43.1    | 59.2    | 75.4    | 99.6    | 78.0    | 72.7    |
| 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)