

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: P650999

Luminaire Tested: **GALN-SA7C-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650999  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-840-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21480.8 lumens  
Efficiency: N/A  
Efficacy: 57.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

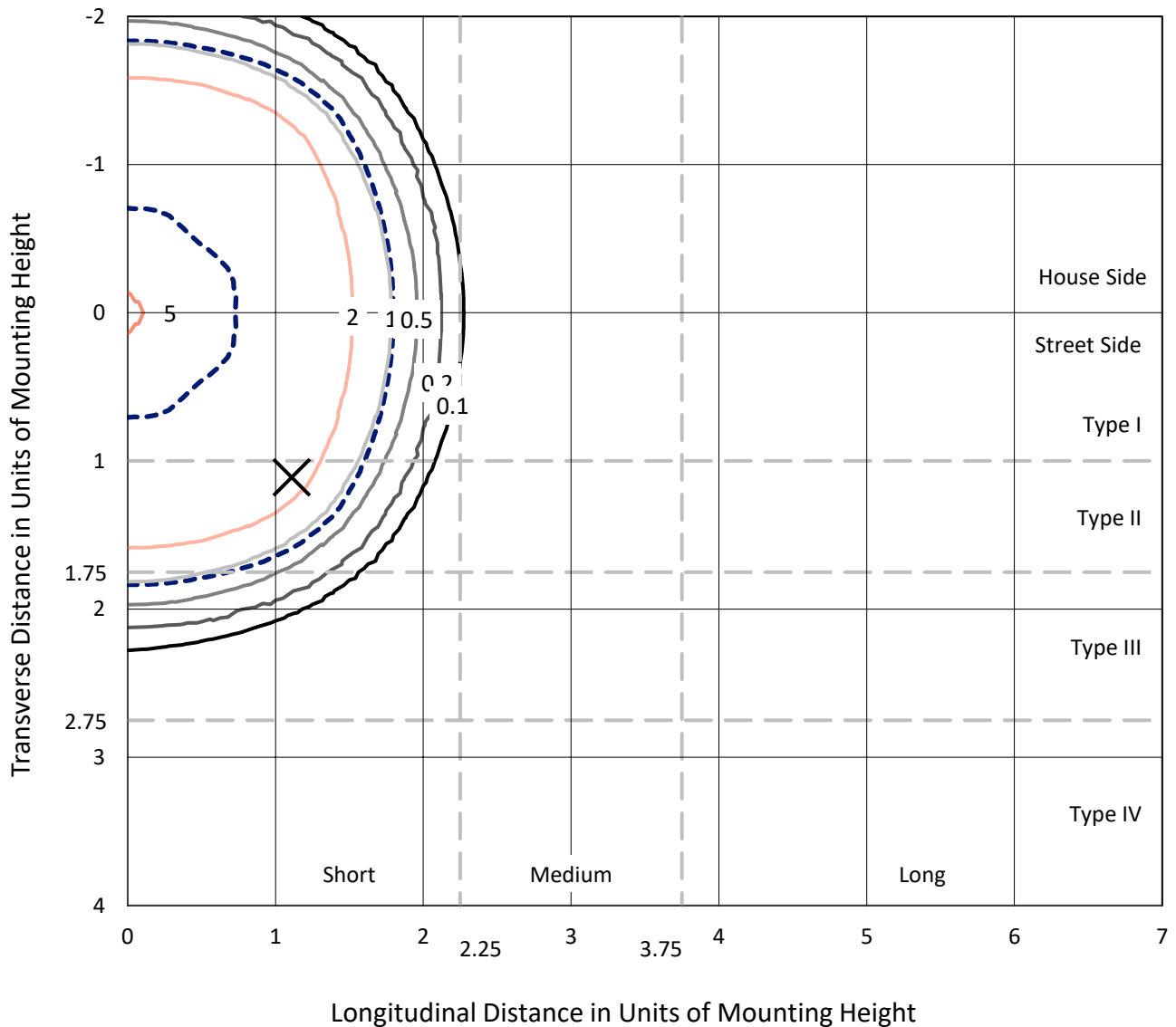
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

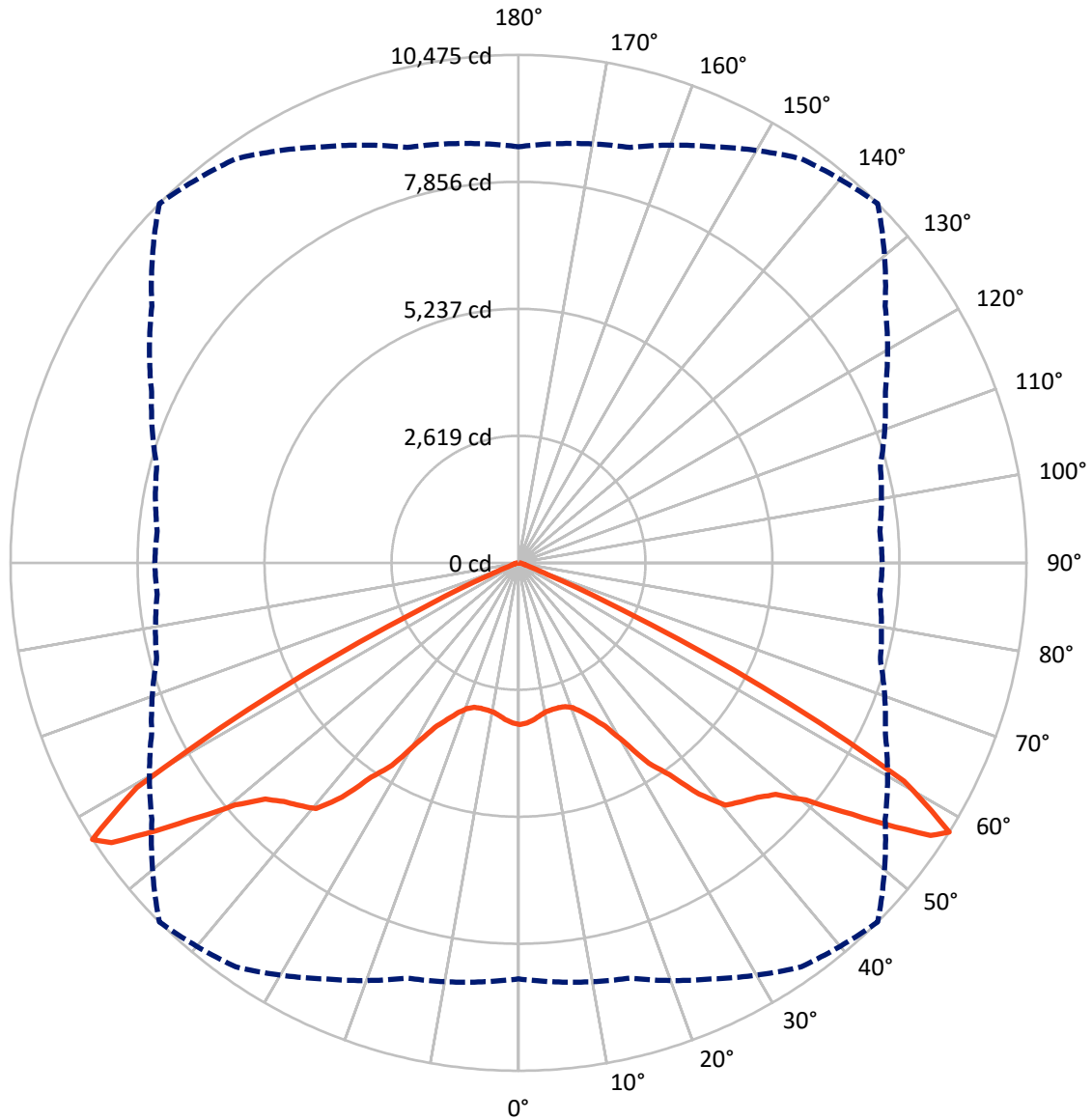
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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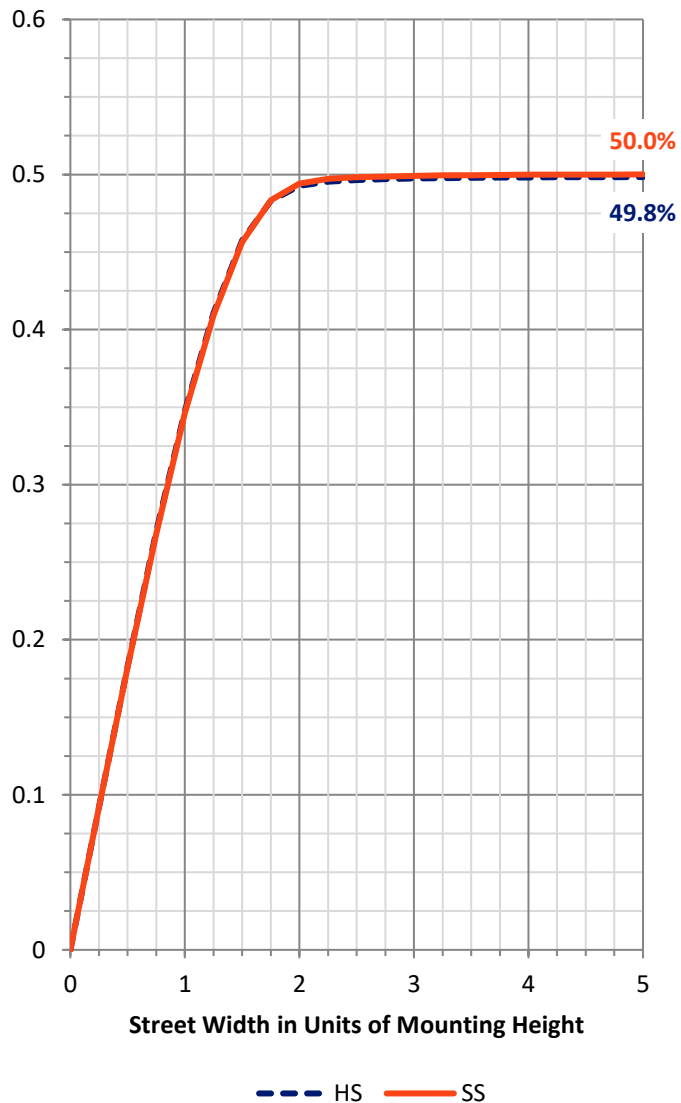
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10740.4  | 0.0    | 10740.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 10740.4  | 0.0    | 10740.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 21480.8  | 0.0    | 21480.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 306.2   | 1.4       |
| 10°-20°   | 885.0   | 4.1       |
| 20°-30°   | 1633.6  | 7.6       |
| 30°-40°   | 3212.7  | 15.0      |
| 40°-50°   | 5232.6  | 24.4      |
| 50°-60°   | 7462.4  | 34.7      |
| 60°-70°   | 2583.6  | 12.0      |
| 70°-80°   | 138.6   | 0.6       |
| 80°-90°   | 26.0    | 0.1       |
| 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°    | 21480.8 | 100.0     |
| 0°-180°   | 21480.8 | 100.0     |

**Coefficient of Utilization**

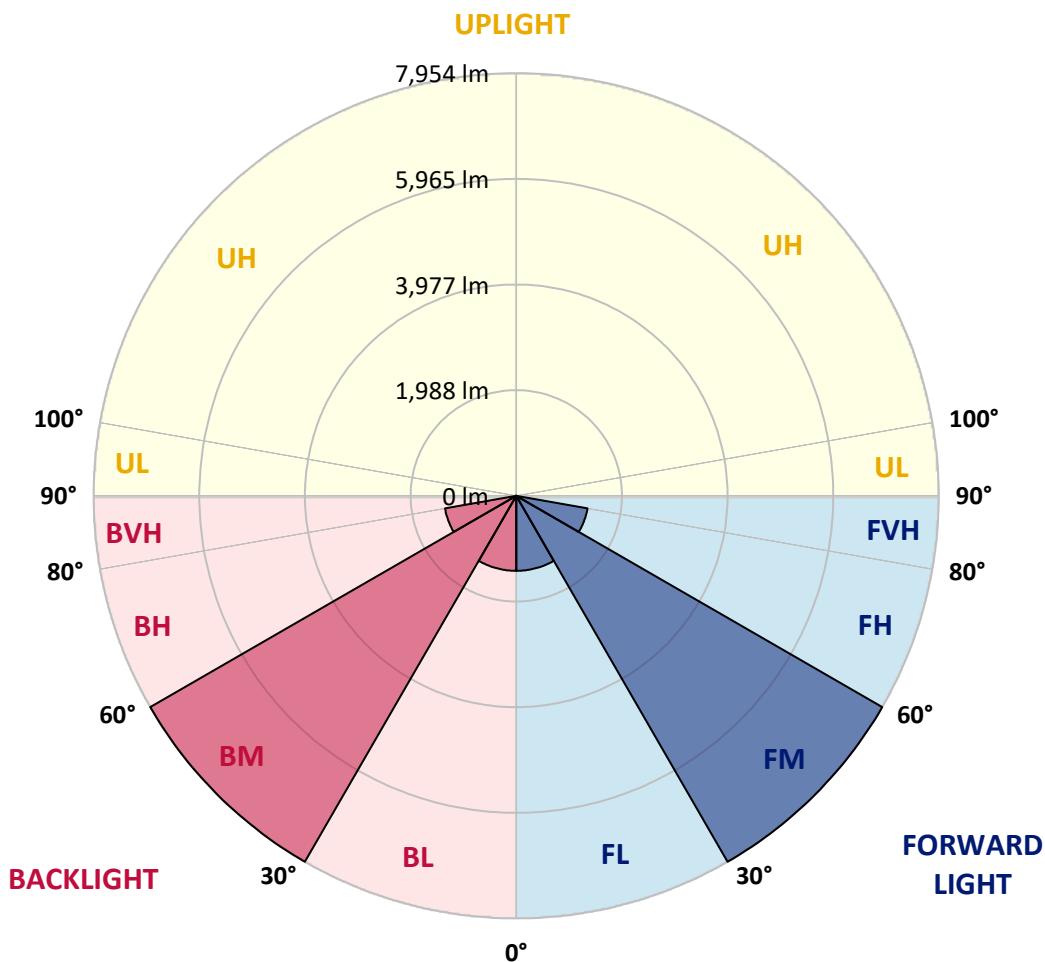


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1412.4 | 6.6       |                         |      |         |
| FM (30°-60°)   | 7953.9 | 37.0      |                         |      |         |
| FH (60°-80°)   | 1361.1 | 6.3       |                         |      | G1/1800 |
| FVH (80°-90°)  | 13.0   | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1412.4 | 6.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 7953.9 | 37.0      | B4/8500                 |      |         |
| BH (60°-80°)   | 1361.1 | 6.3       | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 13.0   | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| 0°    | 3331.9 | 3331.9 | 3331.9 | 3331.9 | 3331.9  | 3331.9  | 3331.9 | 3331.9 | 3331.9 | 3331.9 | 3331.9 |
| 2.5°  | 3323.0 | 3340.9 | 3318.5 | 3309.5 | 3305.0  | 3305.0  | 3291.6 | 3291.6 | 3287.1 | 3291.6 | 3273.7 |
| 5°    | 3269.2 | 3287.1 | 3287.1 | 3282.7 | 3255.8  | 3251.3  | 3237.8 | 3228.9 | 3233.4 | 3215.5 | 3228.9 |
| 7.5°  | 3215.5 | 3228.9 | 3211.0 | 3206.5 | 3197.6  | 3179.7  | 3175.2 | 3134.8 | 3139.4 | 3139.4 | 3148.3 |
| 10°   | 3206.5 | 3202.0 | 3175.2 | 3152.7 | 3125.9  | 3121.5  | 3108.0 | 3099.0 | 3099.0 | 3094.5 | 3108.0 |
| 12.5° | 3206.5 | 3184.1 | 3179.7 | 3130.4 | 3085.6  | 3103.5  | 3067.7 | 3045.3 | 3076.6 | 3085.6 | 3103.5 |
| 15°   | 3202.0 | 3224.4 | 3148.3 | 3125.9 | 3094.5  | 3099.0  | 3067.7 | 3045.3 | 3063.2 | 3072.2 | 3085.6 |
| 17.5° | 3228.9 | 3215.5 | 3193.1 | 3148.3 | 3134.8  | 3116.9  | 3076.6 | 3058.7 | 3058.7 | 3081.1 | 3085.6 |
| 20°   | 3300.6 | 3264.8 | 3219.9 | 3197.6 | 3211.0  | 3188.6  | 3139.4 | 3072.2 | 3090.1 | 3108.0 | 3121.5 |
| 22.5° | 3367.7 | 3340.9 | 3309.5 | 3296.0 | 3372.2  | 3336.4  | 3251.3 | 3175.2 | 3148.3 | 3179.7 | 3202.0 |
| 25°   | 3497.6 | 3497.6 | 3439.4 | 3457.3 | 3542.4  | 3546.8  | 3448.4 | 3314.0 | 3296.0 | 3309.5 | 3318.5 |
| 27.5° | 3761.8 | 3775.2 | 3726.0 | 3743.9 | 3779.7  | 3811.1  | 3726.0 | 3614.0 | 3573.7 | 3569.3 | 3582.7 |
| 30°   | 4048.4 | 4075.3 | 4070.9 | 4147.0 | 4250.0  | 4267.9  | 4142.5 | 3958.8 | 3838.0 | 3815.5 | 3833.4 |
| 32.5° | 4424.6 | 4438.0 | 4429.1 | 4518.7 | 4796.3  | 4926.2  | 4599.3 | 4339.6 | 4178.3 | 4218.6 | 4178.3 |
| 35°   | 5132.2 | 5118.7 | 5020.3 | 5038.2 | 5266.6  | 5360.6  | 5047.1 | 4881.4 | 4805.3 | 4885.9 | 4868.0 |
| 37.5° | 5741.3 | 5692.0 | 5611.4 | 5727.8 | 5965.2  | 6050.2  | 5723.3 | 5432.3 | 5293.4 | 5427.8 | 5486.0 |
| 40°   | 6256.3 | 6130.9 | 6019.0 | 6135.3 | 6453.3  | 6569.7  | 6090.6 | 5853.2 | 5799.5 | 5898.0 | 6023.4 |
| 42.5° | 6690.7 | 6610.1 | 6462.2 | 6471.2 | 6681.7  | 6735.5  | 6350.3 | 6211.5 | 6157.7 | 6314.5 | 6377.2 |
| 45°   | 6999.6 | 6923.5 | 6784.7 | 6775.8 | 6937.0  | 6901.2  | 6556.4 | 6462.2 | 6493.6 | 6596.6 | 6628.0 |
| 47.5° | 7156.4 | 7196.7 | 7116.1 | 7138.5 | 7223.6  | 7138.5  | 6865.3 | 6865.3 | 6793.7 | 6856.3 | 6825.1 |
| 50°   | 7608.7 | 7483.3 | 7586.3 | 7586.3 | 7675.9  | 7684.9  | 7411.6 | 7313.2 | 7120.6 | 7013.1 | 7013.1 |
| 52.5° | 8137.2 | 8146.2 | 8186.5 | 8334.2 | 8486.5  | 8616.4  | 8226.7 | 7805.7 | 7483.3 | 7344.5 | 7326.6 |
| 55°   | 8571.6 | 8661.1 | 8822.3 | 9100.0 | 9538.9  | 9718.0  | 9046.3 | 8293.9 | 7899.8 | 7684.9 | 7640.1 |
| 56°   | 8809.0 | 8723.9 | 9001.5 | 9382.2 | 9955.4  | 10188.3 | 9180.6 | 8392.4 | 7958.0 | 7716.2 | 7711.7 |
| 57.5° | 8580.6 | 8674.6 | 8867.2 | 9467.2 | 10170.4 | 10474.9 | 9229.9 | 8347.7 | 7725.2 | 7478.8 | 7501.2 |
| 60°   | 6775.8 | 6865.3 | 7125.0 | 7796.8 | 8898.5  | 9135.9  | 7810.3 | 6883.2 | 6327.9 | 5974.1 | 5978.6 |
| 62.5° | 3833.4 | 3900.6 | 4102.1 | 4724.7 | 5409.9  | 5638.2  | 4868.0 | 4250.0 | 3864.8 | 3667.8 | 3605.1 |
| 65°   | 1410.7 | 1383.8 | 1415.2 | 1733.1 | 2154.1  | 2346.6  | 2024.2 | 1710.8 | 1509.2 | 1437.5 | 1410.7 |
| 67.5° | 528.5  | 488.1  | 456.8  | 488.1  | 613.5   | 649.3   | 595.6  | 497.1  | 465.7  | 479.2  | 488.1  |
| 70°   | 326.9  | 309.0  | 246.3  | 232.9  | 228.4   | 224.0   | 237.3  | 250.8  | 286.6  | 335.9  | 344.8  |
| 72.5° | 228.4  | 215.0  | 174.7  | 165.7  | 156.8   | 152.3   | 174.7  | 192.6  | 224.0  | 259.8  | 264.2  |
| 75°   | 89.6   | 94.0   | 89.6   | 98.6   | 103.0   | 107.5   | 125.4  | 138.8  | 152.3  | 152.3  | 147.8  |
| 77.5° | 17.9   | 17.9   | 26.9   | 35.8   | 44.8    | 58.2    | 85.1   | 98.6   | 103.0  | 98.6   | 85.1   |
| 80°   | 0.0    | 0.0    | 9.0    | 17.9   | 35.8    | 49.3    | 76.1   | 85.1   | 94.0   | 85.1   | 67.2   |
| 82.5° | 0.0    | 0.0    | 9.0    | 22.4   | 35.8    | 44.8    | 71.7   | 89.6   | 103.0  | 94.0   | 71.7   |
| 85°   | 0.0    | 0.0    | 9.0    | 17.9   | 26.9    | 31.4    | 31.4   | 22.4   | 22.4   | 13.5   | 9.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)