

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: P650945

Luminaire Tested: **GALN-SA6C-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650945  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-840-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29745.3 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

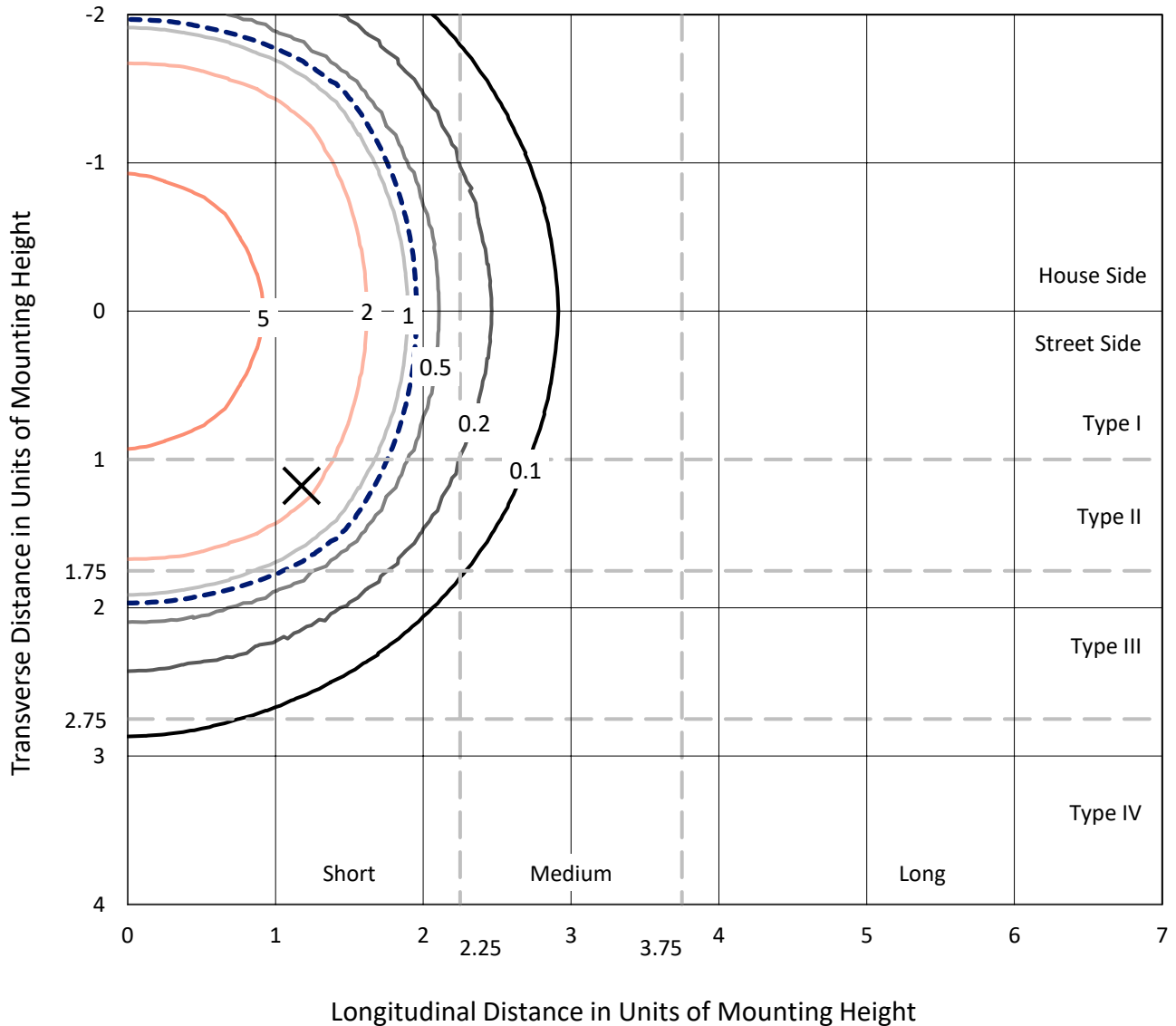
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

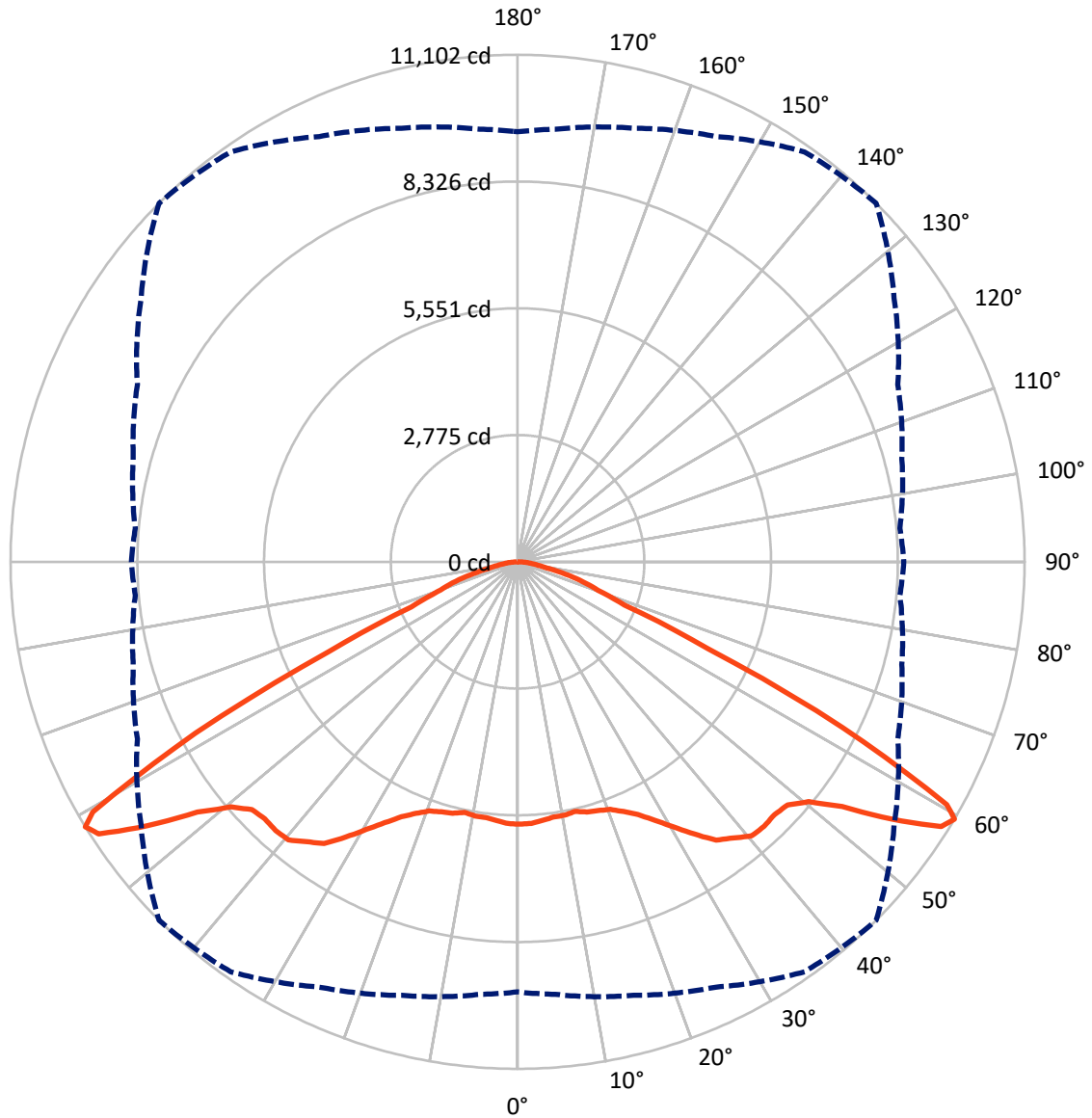
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 59-Deg Vertical

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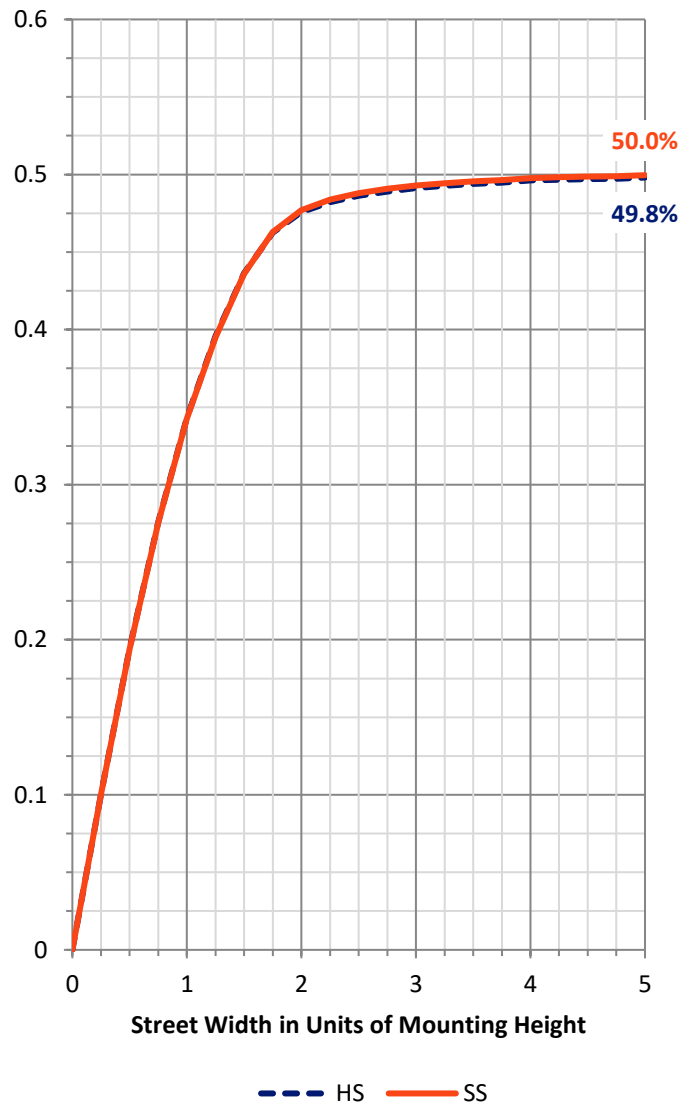
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 14872.7  | 0.0    | 14872.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 14872.7  | 0.0    | 14872.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 29745.3  | 0.0    | 29745.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 541.6   | 1.8       |
| 10°-20°   | 1610.6  | 5.4       |
| 20°-30°   | 2812.4  | 9.5       |
| 30°-40°   | 4491.7  | 15.1      |
| 40°-50°   | 6118.6  | 20.6      |
| 50°-60°   | 8274.0  | 27.8      |
| 60°-70°   | 4537.5  | 15.3      |
| 70°-80°   | 1160.8  | 3.9       |
| 80°-90°   | 198.0   | 0.7       |
| 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°    | 29745.3 | 100.0     |
| 0°-180°   | 29745.3 | 100.0     |

**Coefficient of Utilization**



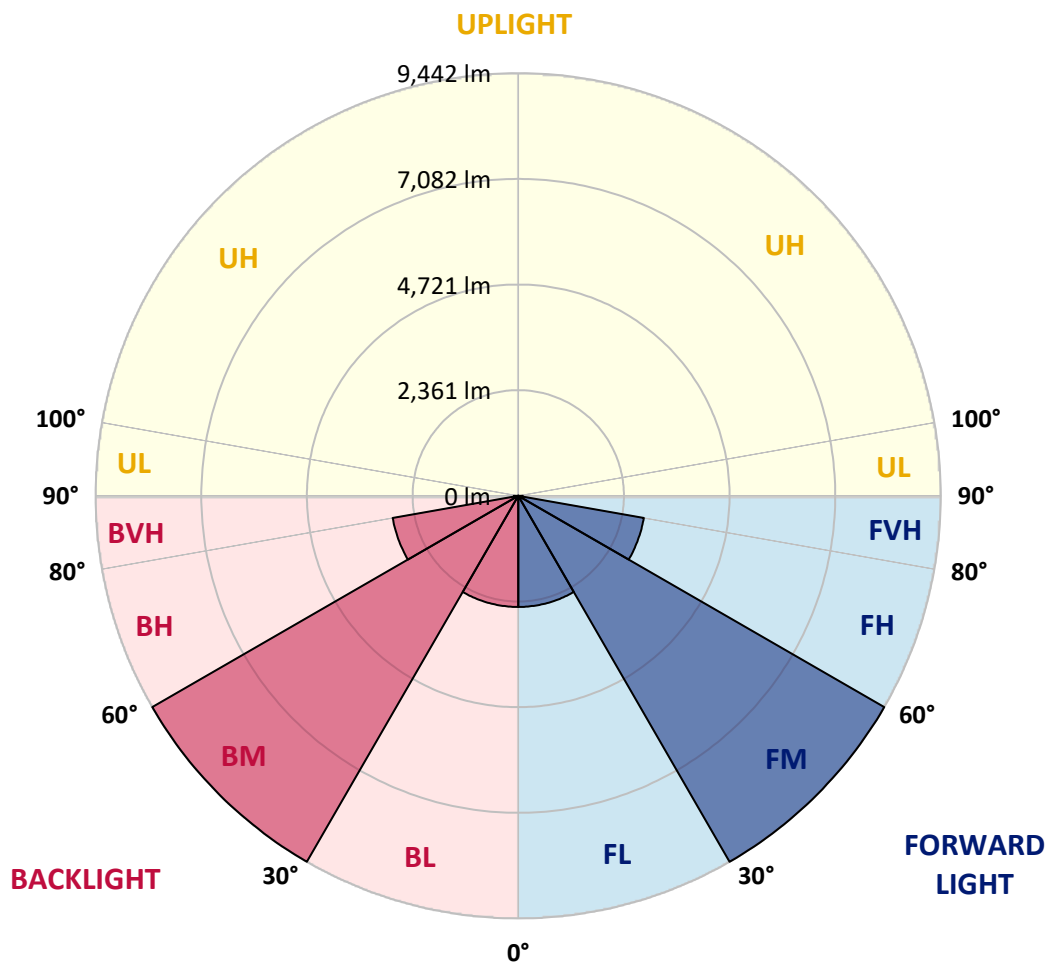
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2482.3 | 8.3       |                         |      |         |
| FM (30°-60°)   | 9442.2 | 31.7      |                         |      |         |
| FH (60°-80°)   | 2849.2 | 9.6       |                         |      | G2/5000 |
| FVH (80°-90°)  | 99.0   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 2482.3 | 8.3       | B3/2500                 |      |         |
| BM (30°-60°)   | 9442.2 | 31.7      | B5                      |      |         |
| BH (60°-80°)   | 2849.2 | 9.6       | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 99.0   | 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-G2**

Type V Short





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CATALOG NUMBER: GALN-SA6C-840-U-5WQ-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 45°     | 55°     | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 5745.4 | 5745.4 | 5745.4  | 5745.4  | 5745.4  | 5745.4  | 5745.4  | 5745.4 | 5745.4 | 5745.4 | 5745.4 |
| 2.5°  | 5711.1 | 5753.0 | 5722.5  | 5749.2  | 5745.4  | 5733.9  | 5714.8  | 5703.4 | 5688.2 | 5711.1 | 5673.0 |
| 5°    | 5688.2 | 5722.5 | 5756.8  | 5711.1  | 5711.1  | 5688.2  | 5676.8  | 5653.9 | 5653.9 | 5650.1 | 5646.2 |
| 7.5°  | 5726.3 | 5692.0 | 5676.8  | 5684.4  | 5692.0  | 5642.4  | 5676.8  | 5631.0 | 5592.9 | 5619.6 | 5650.1 |
| 10°   | 5692.0 | 5707.3 | 5650.1  | 5676.8  | 5634.8  | 5642.4  | 5619.6  | 5650.1 | 5608.1 | 5608.1 | 5608.1 |
| 12.5° | 5726.3 | 5684.4 | 5703.4  | 5684.4  | 5673.0  | 5608.1  | 5638.7  | 5604.3 | 5600.5 | 5638.7 | 5604.3 |
| 15°   | 5794.9 | 5726.3 | 5711.1  | 5673.0  | 5684.4  | 5684.4  | 5653.9  | 5657.7 | 5615.8 | 5638.7 | 5646.2 |
| 17.5° | 5772.0 | 5733.9 | 5722.5  | 5676.8  | 5714.8  | 5726.3  | 5669.1  | 5631.0 | 5657.7 | 5653.9 | 5650.1 |
| 20°   | 5791.1 | 5806.3 | 5794.9  | 5802.6  | 5817.8  | 5787.3  | 5733.9  | 5680.5 | 5646.2 | 5695.8 | 5692.0 |
| 22.5° | 5913.2 | 5897.8 | 5890.3  | 5882.6  | 5909.3  | 5939.8  | 5867.4  | 5783.5 | 5783.5 | 5817.8 | 5833.1 |
| 25°   | 6012.2 | 6008.4 | 6004.7  | 6039.0  | 6130.5  | 6130.5  | 6039.0  | 5932.2 | 5905.5 | 5928.4 | 5909.3 |
| 27.5° | 6157.1 | 6199.1 | 6183.8  | 6244.8  | 6378.2  | 6408.8  | 6286.7  | 6160.9 | 6088.5 | 6061.8 | 6096.2 |
| 30°   | 6488.8 | 6439.2 | 6450.6  | 6515.5  | 6633.6  | 6732.8  | 6546.0  | 6412.5 | 6313.5 | 6309.6 | 6324.9 |
| 32.5° | 6709.9 | 6748.0 | 6782.3  | 6843.4  | 7030.2  | 7106.4  | 6881.5  | 6664.2 | 6603.2 | 6568.9 | 6580.3 |
| 35°   | 7152.2 | 7117.9 | 7110.2  | 7171.2  | 7358.1  | 7483.9  | 7201.7  | 7011.1 | 6931.0 | 7007.3 | 7007.3 |
| 37.5° | 7571.5 | 7476.2 | 7403.8  | 7483.9  | 7655.5  | 7670.7  | 7430.5  | 7327.5 | 7285.6 | 7373.3 | 7369.5 |
| 40°   | 7769.8 | 7762.2 | 7594.4  | 7640.1  | 7868.9  | 7891.8  | 7666.9  | 7544.9 | 7537.2 | 7651.6 | 7766.0 |
| 42.5° | 7975.6 | 7903.2 | 7735.5  | 7766.0  | 7907.0  | 7914.7  | 7701.2  | 7666.9 | 7750.7 | 7861.3 | 7868.9 |
| 45°   | 8009.9 | 7949.0 | 7842.2  | 7766.0  | 7868.9  | 7891.8  | 7766.0  | 7788.8 | 7796.5 | 7929.9 | 7929.9 |
| 47.5° | 8078.6 | 8071.0 | 8009.9  | 7952.7  | 7971.8  | 7952.7  | 7872.7  | 7907.0 | 8021.4 | 8086.2 | 8055.7 |
| 50°   | 8269.2 | 8189.2 | 8250.1  | 8200.6  | 8204.4  | 8257.8  | 8185.4  | 8219.7 | 8196.8 | 8139.6 | 8101.4 |
| 52.5° | 8688.6 | 8650.4 | 8703.8  | 8738.2  | 8776.3  | 8898.3  | 8814.4  | 8631.4 | 8459.9 | 8307.3 | 8303.5 |
| 55°   | 9302.4 | 9329.0 | 9432.0  | 9607.4  | 9756.1  | 9950.5  | 9546.4  | 9107.9 | 8833.4 | 8593.3 | 8608.6 |
| 57.5° | 9881.9 | 9862.8 | 10003.9 | 10404.2 | 10838.8 | 10938.0 | 10145.0 | 9519.7 | 9073.6 | 8921.2 | 8856.3 |
| 59°   | 9416.8 | 9508.3 | 9828.5  | 10274.6 | 10957.0 | 11101.9 | 10064.9 | 9184.2 | 8711.5 | 8402.7 | 8456.0 |
| 60°   | 8684.8 | 8719.1 | 9005.0  | 9626.4  | 10549.1 | 10796.8 | 9527.4  | 8665.7 | 8036.7 | 7857.5 | 7937.5 |
| 62.5° | 6138.0 | 6111.4 | 6317.3  | 6824.3  | 7651.6  | 7987.1  | 7083.6  | 6477.4 | 6080.9 | 5882.6 | 5928.4 |
| 65°   | 3263.5 | 3385.4 | 3469.4  | 3785.8  | 4224.2  | 4578.7  | 4205.2  | 3942.1 | 3720.9 | 3557.0 | 3553.2 |
| 67.5° | 2203.6 | 2188.4 | 2207.4  | 2279.9  | 2428.6  | 2527.6  | 2520.1  | 2386.6 | 2367.5 | 2337.1 | 2371.4 |
| 70°   | 1856.7 | 1849.0 | 1814.7  | 1814.7  | 1845.2  | 1868.1  | 1894.8  | 1910.1 | 1940.5 | 1978.7 | 1974.8 |
| 72.5° | 1505.9 | 1486.9 | 1464.0  | 1452.6  | 1490.7  | 1502.1  | 1536.4  | 1551.6 | 1578.4 | 1574.5 | 1608.8 |
| 75°   | 995.1  | 995.1  | 1021.7  | 1052.3  | 1063.7  | 1086.6  | 1090.4  | 1136.1 | 1136.1 | 1143.8 | 1113.2 |
| 77.5° | 556.7  | 541.4  | 560.4   | 591.0   | 617.6   | 659.6   | 701.5   | 735.8  | 754.9  | 747.2  | 747.2  |
| 80°   | 324.0  | 324.0  | 343.1   | 377.4   | 411.8   | 449.9   | 480.4   | 507.0  | 526.1  | 518.5  | 503.3  |
| 82.5° | 202.1  | 202.1  | 221.1   | 255.4   | 282.2   | 305.0   | 346.9   | 381.2  | 404.1  | 396.5  | 377.4  |
| 85°   | 102.9  | 102.9  | 125.8   | 148.7   | 183.0   | 198.2   | 194.4   | 179.2  | 175.3  | 156.3  | 156.3  |
| 87.5° | 26.7   | 26.7   | 38.1    | 42.0    | 34.3    | 38.1    | 38.1    | 38.1   | 38.1   | 38.1   | 42.0   |
| 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)