

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: P646991

Luminaire Tested: **GALN-SA6C-835-U-RW-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646991  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-835-U-RW-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21095.6 lumens  
Efficiency: N/A  
Efficacy: 65.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

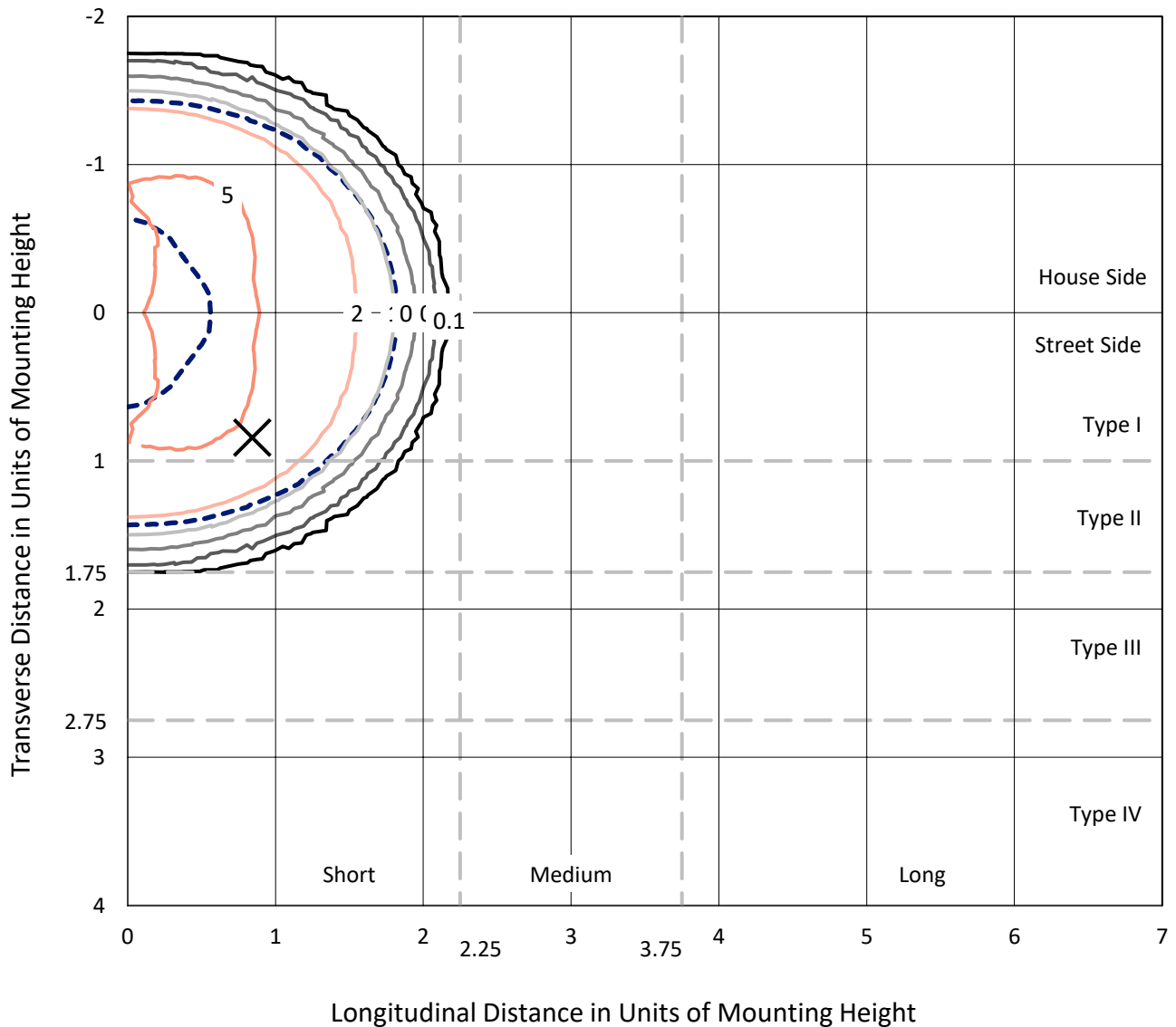
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P646991  
 CATALOG NUMBER: GALN-SA6C-835-U-RW-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

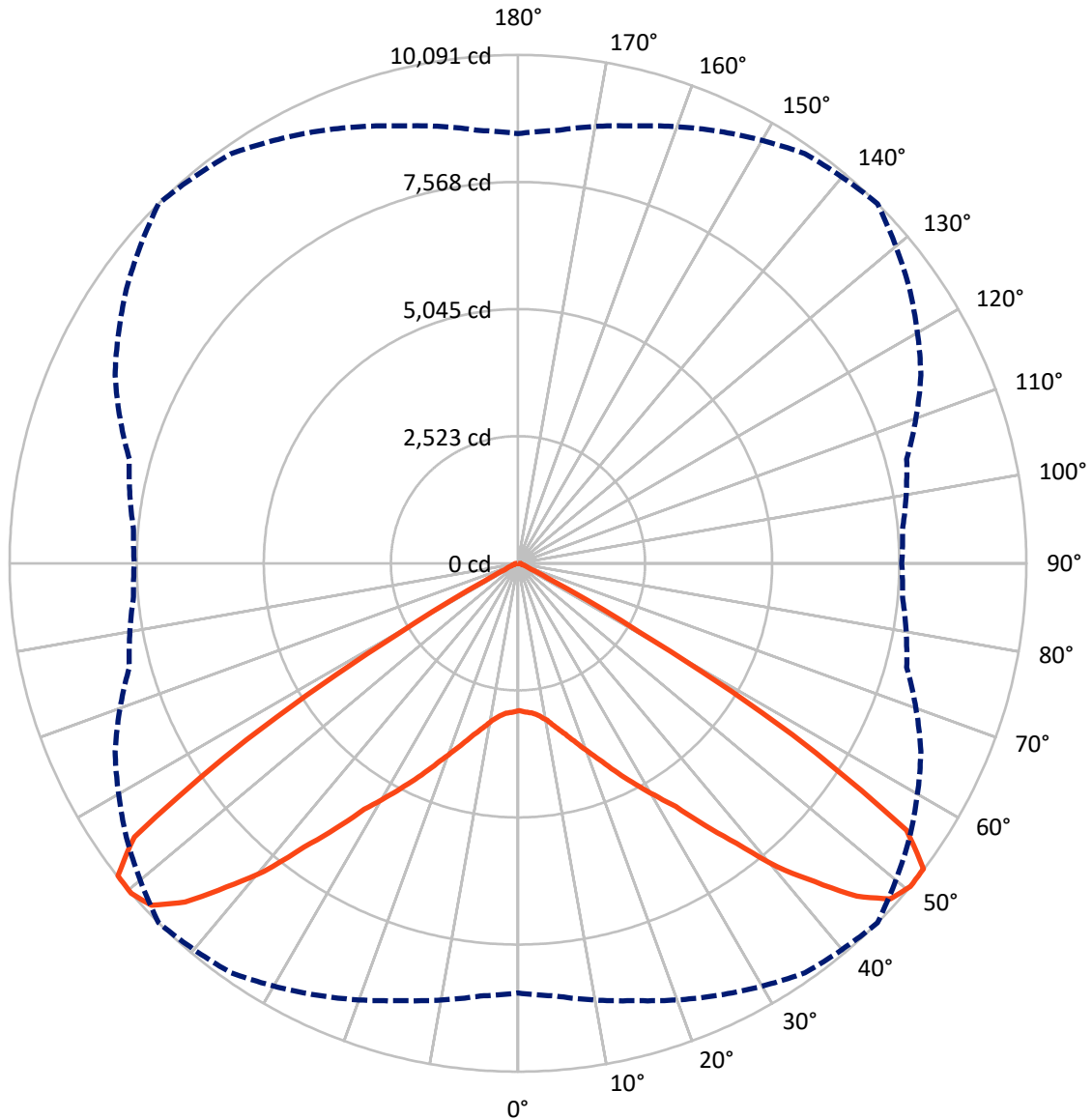
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type V - Short - N/A

REPORT NUMBER: P646991  
CATALOG NUMBER: GALN-SA6C-835-U-RW-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P646991  
 CATALOG NUMBER: GALN-SA6C-835-U-RW-GRSBK

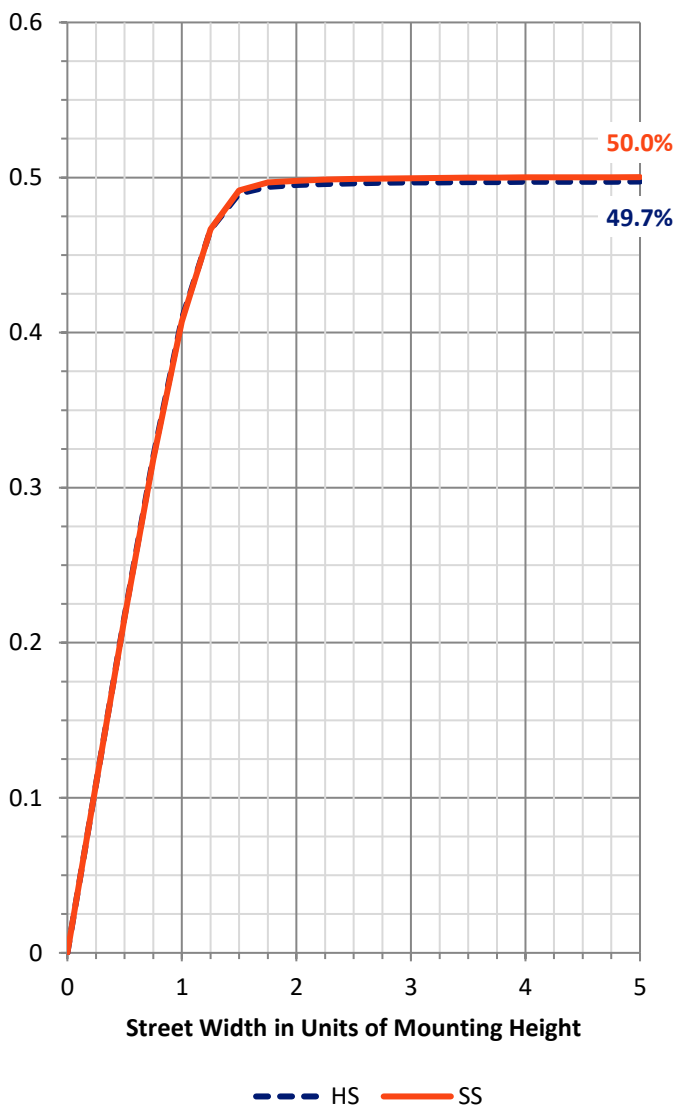
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10547.8  | 0.0    | 10547.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 10547.8  | 0.0    | 10547.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 21095.6  | 0.0    | 21095.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 291.0   | 1.4       |
| 10°-20°   | 1002.8  | 4.8       |
| 20°-30°   | 2048.1  | 9.7       |
| 30°-40°   | 3905.8  | 18.5      |
| 40°-50°   | 6581.9  | 31.2      |
| 50°-60°   | 6277.0  | 29.8      |
| 60°-70°   | 876.2   | 4.2       |
| 70°-80°   | 83.8    | 0.4       |
| 80°-90°   | 28.9    | 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°    | 21095.6 | 100.0     |
| 0°-180°   | 21095.6 | 100.0     |

**Coefficient of Utilization**



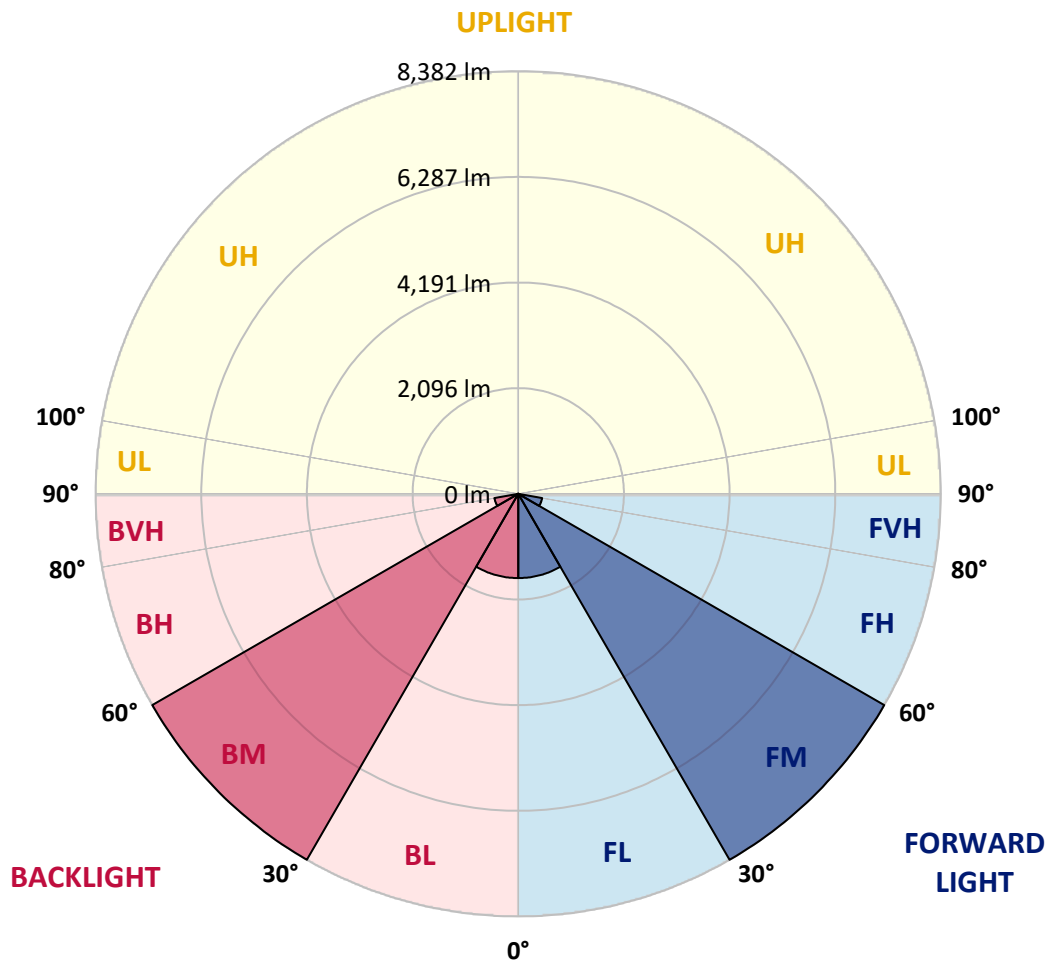
REPORT NUMBER: P646991  
 CATALOG NUMBER: GALN-SA6C-835-U-RW-GRSBK

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 1671.0 | 7.9       |                         |      |        |
| FM (30°-60°)   | 8382.3 | 39.7      |                         |      |        |
| FH (60°-80°)   | 480.0  | 2.3       |                         |      | G0/660 |
| FVH (80°-90°)  | 14.5   | 0.1       |                         |      | G1/100 |
| BL (0°-30°)    | 1671.0 | 7.9       | B3/2500                 |      |        |
| BM (30°-60°)   | 8382.3 | 39.7      | B4/8500                 |      |        |
| BH (60°-80°)   | 480.0  | 2.3       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 14.5   | 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





REPORT NUMBER: P646991

CATALOG NUMBER: GALN-SA6C-835-U-RW-GRSBK

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| 0°    | 2924.7 | 2924.7 | 2924.7 | 2924.7 | 2924.7 | 2924.7  | 2924.7 | 2924.7 | 2924.7 | 2924.7 | 2924.7 |
| 2.5°  | 2914.0 | 2914.0 | 2910.5 | 2938.8 | 2924.7 | 2956.6  | 2953.1 | 2963.7 | 2974.4 | 2970.8 | 2999.2 |
| 5°    | 2889.2 | 2885.6 | 2885.6 | 2917.5 | 2949.5 | 2985.0  | 3017.0 | 3038.3 | 3073.7 | 3073.7 | 3109.2 |
| 7.5°  | 2914.0 | 2896.2 | 2921.1 | 2935.3 | 2995.7 | 3056.0  | 3109.2 | 3151.8 | 3233.5 | 3261.8 | 3251.3 |
| 10°   | 2921.1 | 2942.4 | 2960.1 | 3002.7 | 3077.3 | 3169.6  | 3215.7 | 3322.2 | 3414.5 | 3478.4 | 3492.6 |
| 12.5° | 2967.3 | 2999.2 | 3048.9 | 3151.8 | 3219.3 | 3340.0  | 3403.9 | 3506.7 | 3634.5 | 3705.5 | 3755.2 |
| 15°   | 3056.0 | 3066.6 | 3130.5 | 3261.8 | 3407.4 | 3517.4  | 3616.8 | 3691.3 | 3815.6 | 3897.2 | 3900.7 |
| 17.5° | 3169.6 | 3215.7 | 3304.4 | 3428.7 | 3581.3 | 3744.5  | 3822.7 | 3904.3 | 3950.5 | 4060.5 | 4085.3 |
| 20°   | 3396.7 | 3403.9 | 3489.0 | 3652.3 | 3844.0 | 3993.1  | 4049.8 | 4092.4 | 4074.7 | 4188.3 | 4209.6 |
| 22.5° | 3609.7 | 3616.8 | 3723.2 | 3943.3 | 4149.2 | 4277.0  | 4301.8 | 4277.0 | 4223.7 | 4305.4 | 4312.5 |
| 25°   | 3826.2 | 3890.1 | 3968.2 | 4188.3 | 4443.8 | 4614.1  | 4617.7 | 4550.2 | 4440.2 | 4454.4 | 4490.0 |
| 27.5° | 4163.4 | 4209.6 | 4291.2 | 4493.5 | 4773.9 | 4965.6  | 4933.6 | 4851.9 | 4710.0 | 4720.6 | 4710.0 |
| 30°   | 4557.4 | 4600.0 | 4667.4 | 4926.5 | 5132.4 | 5341.8  | 5387.9 | 5309.8 | 5096.9 | 5050.7 | 5104.0 |
| 32.5° | 5033.0 | 5093.3 | 5217.5 | 5455.4 | 5629.3 | 5757.1  | 5789.0 | 5760.6 | 5561.8 | 5544.1 | 5579.6 |
| 35°   | 5611.5 | 5693.2 | 5806.7 | 6016.2 | 6158.1 | 6388.8  | 6388.8 | 6293.0 | 6112.0 | 6133.3 | 6129.7 |
| 37.5° | 6222.0 | 6342.7 | 6520.2 | 6733.1 | 6924.8 | 7049.0  | 7010.0 | 6928.4 | 6747.3 | 6701.1 | 6747.3 |
| 40°   | 6988.7 | 7049.0 | 7272.7 | 7549.5 | 7783.7 | 7925.7  | 7758.9 | 7581.4 | 7148.4 | 7215.8 | 7340.1 |
| 42.5° | 7687.9 | 7783.7 | 7954.1 | 8259.3 | 8525.5 | 8642.7  | 8444.0 | 8092.5 | 7570.7 | 7517.5 | 7609.8 |
| 45°   | 8284.2 | 8387.1 | 8610.7 | 9047.3 | 9327.7 | 9430.6  | 8990.6 | 8422.7 | 7826.3 | 7691.5 | 7730.5 |
| 47.5° | 8681.7 | 8735.0 | 9047.3 | 9462.6 | 9718.1 | 9952.4  | 9320.6 | 8649.8 | 7947.0 | 7691.5 | 7677.2 |
| 50°   | 8529.1 | 8621.4 | 8987.0 | 9459.0 | 9924.0 | 10090.8 | 9487.5 | 8823.7 | 7986.1 | 7659.5 | 7616.9 |
| 52.5° | 7574.4 | 7734.1 | 8142.3 | 8777.6 | 9480.3 | 10076.7 | 9718.1 | 8766.9 | 7971.9 | 7691.5 | 7755.4 |
| 55°   | 5270.8 | 5274.4 | 5771.3 | 6708.3 | 7950.6 | 9356.1  | 9381.0 | 8830.8 | 8064.1 | 7890.2 | 7893.7 |
| 57.5° | 2119.0 | 2225.4 | 2605.2 | 3545.8 | 4692.3 | 6424.4  | 7638.2 | 8191.9 | 8074.8 | 8032.2 | 8142.3 |
| 60°   | 536.0  | 539.5  | 656.6  | 1000.9 | 1650.5 | 2754.3  | 4000.1 | 5412.8 | 6232.7 | 6513.1 | 6552.1 |
| 62.5° | 273.3  | 276.9  | 305.2  | 354.9  | 450.8  | 738.3   | 1313.2 | 2083.5 | 2963.7 | 3410.9 | 3528.0 |
| 65°   | 223.6  | 223.6  | 241.3  | 266.2  | 269.7  | 283.9   | 340.8  | 486.2  | 706.3  | 802.2  | 812.8  |
| 67.5° | 170.4  | 170.4  | 184.6  | 198.7  | 205.9  | 202.3   | 195.2  | 202.3  | 244.9  | 234.3  | 227.1  |
| 70°   | 106.5  | 110.0  | 117.1  | 131.3  | 138.4  | 142.0   | 145.6  | 152.6  | 173.9  | 181.0  | 173.9  |
| 72.5° | 63.9   | 63.9   | 67.4   | 78.1   | 88.7   | 95.8    | 106.5  | 113.6  | 124.3  | 142.0  | 138.4  |
| 75°   | 28.4   | 28.4   | 35.5   | 46.1   | 56.8   | 67.4    | 78.1   | 88.7   | 95.8   | 106.5  | 110.0  |
| 77.5° | 7.1    | 10.6   | 17.8   | 31.9   | 42.6   | 56.8    | 71.0   | 81.7   | 88.7   | 88.7   | 85.2   |
| 80°   | 3.5    | 3.5    | 14.2   | 24.8   | 46.1   | 60.4    | 78.1   | 85.2   | 95.8   | 88.7   | 78.1   |
| 82.5° | 3.5    | 3.5    | 14.2   | 24.8   | 42.6   | 60.4    | 81.7   | 92.3   | 99.4   | 88.7   | 74.5   |
| 85°   | 0.0    | 3.5    | 10.6   | 21.3   | 35.5   | 42.6    | 35.5   | 24.8   | 14.2   | 14.2   | 10.6   |
| 87.5° | 0.0    | 0.0    | 3.5    | 3.5    | 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)