

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: P648133

Luminaire Tested: **GALN-SA9A-835-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648133  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-835-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19481.8 lumens  
Efficiency: N/A  
Efficacy: 71.1 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

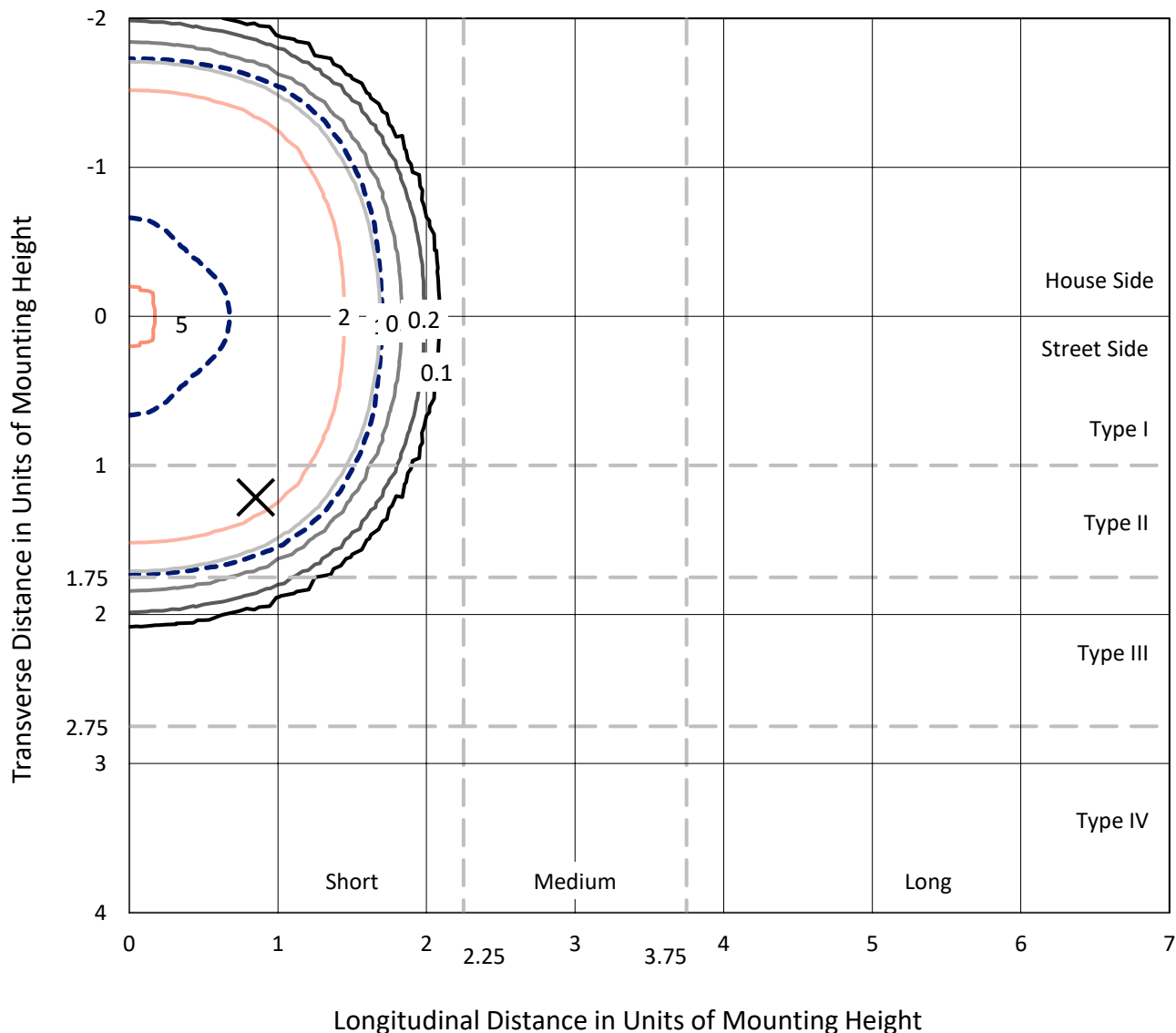
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

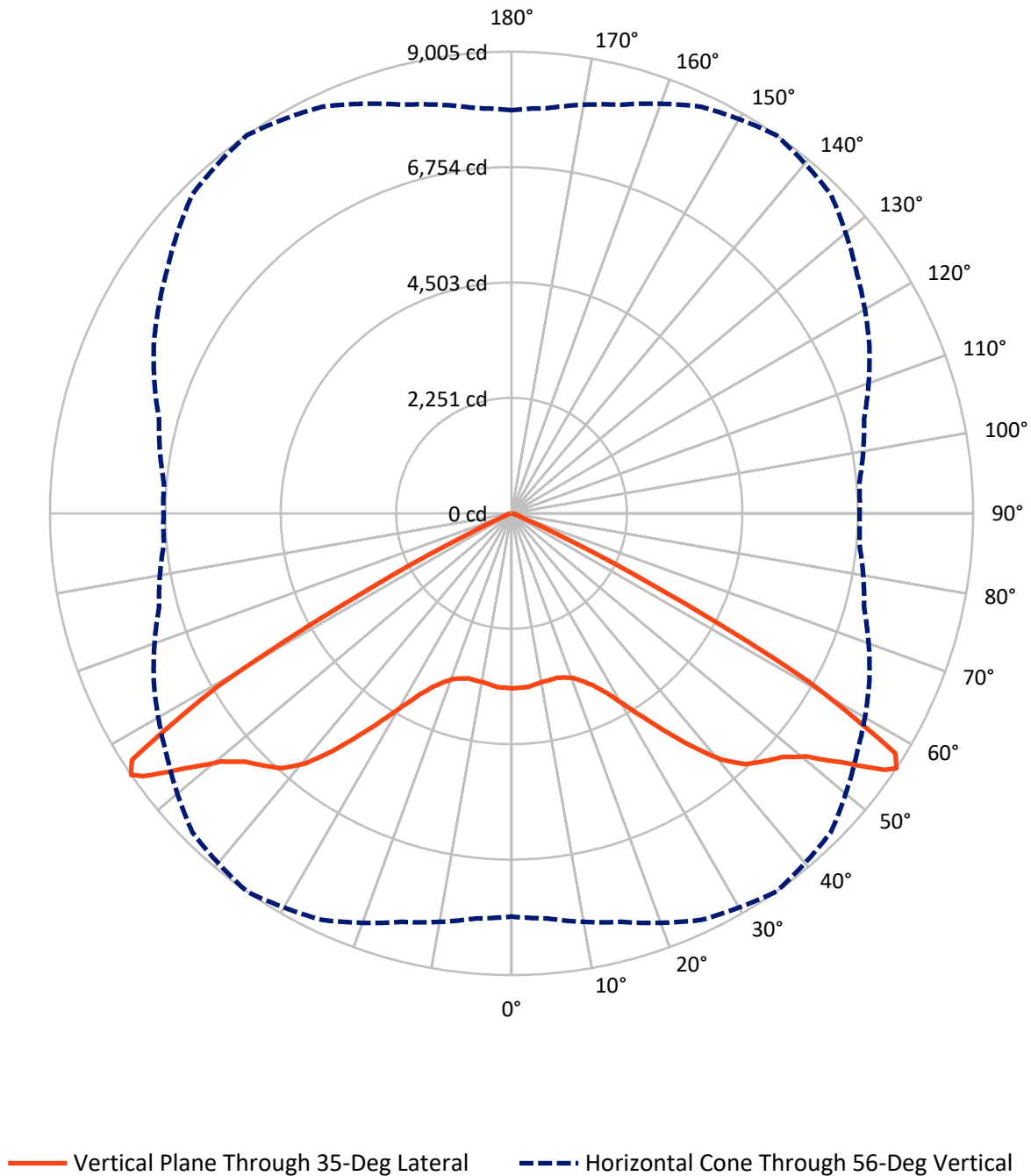
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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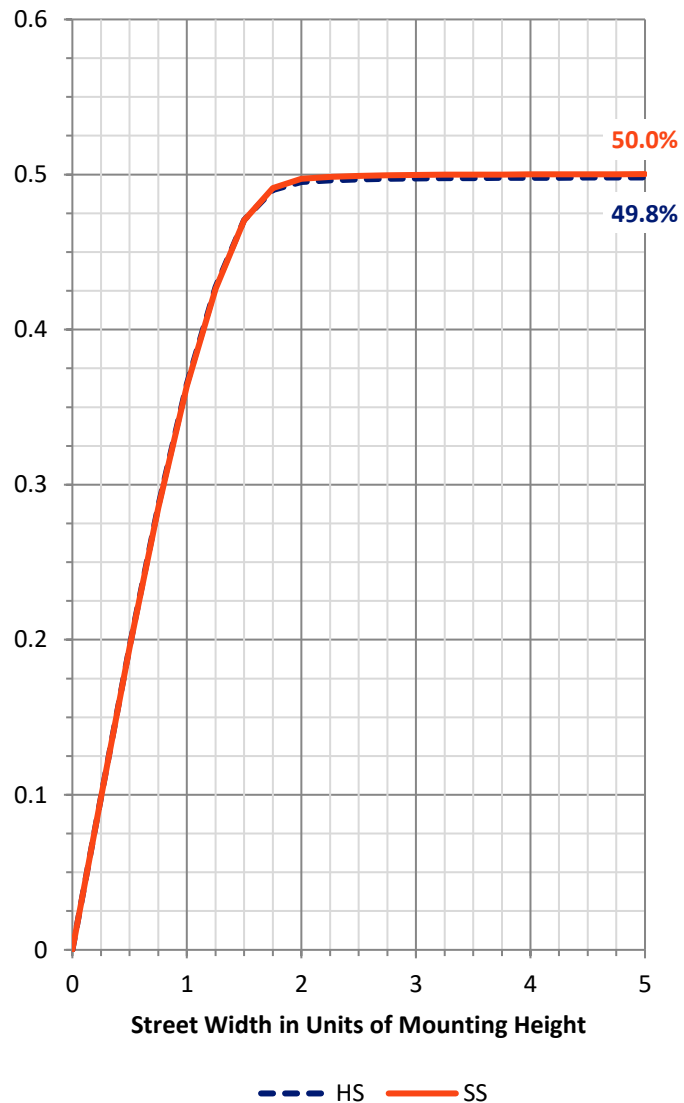
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9740.9   | 0.0    | 9740.9  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 9740.9   | 0.0    | 9740.9  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 19481.8  | 0.0    | 19481.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 320.8   | 1.6       |
| 10°-20°   | 936.7   | 4.8       |
| 20°-30°   | 1696.2  | 8.7       |
| 30°-40°   | 3145.3  | 16.1      |
| 40°-50°   | 5162.8  | 26.5      |
| 50°-60°   | 6651.2  | 34.1      |
| 60°-70°   | 1465.8  | 7.5       |
| 70°-80°   | 85.0    | 0.4       |
| 80°-90°   | 17.9    | 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°    | 19481.8 | 100.0     |
| 0°-180°   | 19481.8 | 100.0     |

**Coefficient of Utilization**



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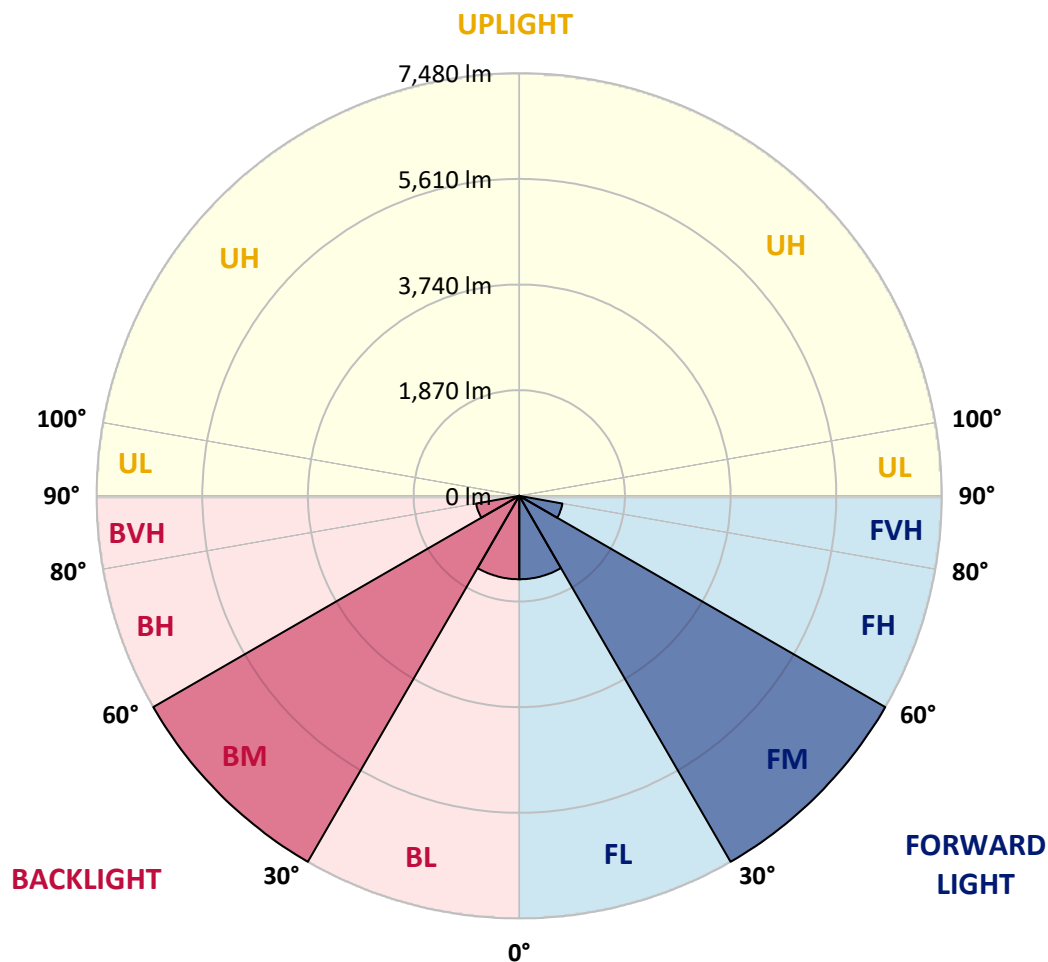
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1476.8 | 7.6       |                         |      |         |
| FM   | (30°-60°)   | 7479.7 | 38.4      |                         |      |         |
| FH   | (60°-80°)   | 775.4  | 4.0       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 8.9    | 0.0       |                         |      | G0/10   |
| BL   | (0°-30°)    | 1476.8 | 7.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 7479.7 | 38.4      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 775.4  | 4.0       | B2/1000                 |      | G1/1800 |
| BVH  | (80°-90°)   | 8.9    | 0.0       |                         |      | G0/10   |
| 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°    | 3413.6 | 3413.6 | 3413.6 | 3413.6 | 3413.6 | 3413.6 | 3413.6 | 3413.6 | 3413.6 | 3413.6 | 3413.6 |
| 2.5°  | 3420.7 | 3420.7 | 3424.2 | 3427.7 | 3403.1 | 3392.4 | 3395.9 | 3388.9 | 3385.4 | 3395.9 | 3395.9 |
| 5°    | 3410.1 | 3410.1 | 3399.6 | 3403.1 | 3403.1 | 3371.3 | 3371.3 | 3378.3 | 3378.3 | 3357.2 | 3350.1 |
| 7.5°  | 3381.9 | 3374.8 | 3360.7 | 3378.3 | 3367.8 | 3367.8 | 3343.0 | 3325.4 | 3318.4 | 3332.4 | 3318.4 |
| 10°   | 3321.9 | 3325.4 | 3339.5 | 3346.5 | 3339.5 | 3360.7 | 3318.4 | 3293.6 | 3268.9 | 3258.3 | 3258.3 |
| 12.5° | 3293.6 | 3314.8 | 3293.6 | 3311.2 | 3336.0 | 3318.4 | 3293.6 | 3276.0 | 3240.7 | 3226.5 | 3226.5 |
| 15°   | 3290.1 | 3304.2 | 3311.2 | 3336.0 | 3325.4 | 3332.4 | 3283.0 | 3261.8 | 3208.9 | 3184.1 | 3173.6 |
| 17.5° | 3286.6 | 3304.2 | 3314.8 | 3360.7 | 3367.8 | 3371.3 | 3332.4 | 3268.9 | 3223.0 | 3198.3 | 3173.6 |
| 20°   | 3325.4 | 3332.4 | 3353.6 | 3399.6 | 3427.7 | 3477.1 | 3406.6 | 3339.5 | 3240.7 | 3212.4 | 3201.8 |
| 22.5° | 3374.8 | 3410.1 | 3431.3 | 3480.7 | 3554.8 | 3597.2 | 3505.4 | 3420.7 | 3318.4 | 3283.0 | 3240.7 |
| 25°   | 3533.7 | 3526.6 | 3561.9 | 3664.3 | 3724.3 | 3756.1 | 3681.9 | 3558.3 | 3424.2 | 3381.9 | 3388.9 |
| 27.5° | 3731.3 | 3738.4 | 3770.1 | 3883.1 | 3971.4 | 4020.8 | 3932.5 | 3770.1 | 3639.5 | 3569.0 | 3561.9 |
| 30°   | 3989.1 | 3981.9 | 4017.3 | 4169.1 | 4328.0 | 4402.1 | 4246.8 | 4056.1 | 3929.0 | 3837.2 | 3858.5 |
| 32.5° | 4260.9 | 4264.4 | 4363.3 | 4500.9 | 4758.6 | 4903.4 | 4652.7 | 4419.7 | 4229.1 | 4165.6 | 4133.8 |
| 35°   | 4663.3 | 4680.9 | 4758.6 | 4970.4 | 5256.4 | 5443.5 | 5168.1 | 4889.2 | 4670.4 | 4553.8 | 4568.0 |
| 37.5° | 5161.1 | 5143.4 | 5274.0 | 5503.5 | 5803.5 | 5941.2 | 5708.2 | 5390.5 | 5168.1 | 5090.4 | 5139.8 |
| 40°   | 5690.5 | 5708.2 | 5775.3 | 5983.5 | 6319.0 | 6410.7 | 6064.7 | 5891.8 | 5697.7 | 5658.8 | 5718.8 |
| 42.5° | 6220.1 | 6209.5 | 6258.9 | 6446.0 | 6689.6 | 6626.1 | 6421.3 | 6319.0 | 6181.2 | 6103.6 | 6184.8 |
| 45°   | 6608.4 | 6590.7 | 6682.5 | 6809.6 | 6897.8 | 6777.9 | 6686.0 | 6650.7 | 6580.2 | 6495.5 | 6569.6 |
| 47.5° | 6986.2 | 6972.0 | 7060.2 | 7095.5 | 7102.6 | 6943.8 | 6961.4 | 7024.9 | 6848.4 | 6671.9 | 6756.7 |
| 50°   | 7307.3 | 7282.7 | 7392.1 | 7469.7 | 7452.1 | 7198.0 | 7261.5 | 7198.0 | 6922.6 | 6714.3 | 6682.5 |
| 52.5° | 7843.9 | 7854.5 | 7971.0 | 8112.3 | 8069.9 | 7858.0 | 7766.3 | 7476.8 | 7123.8 | 6936.7 | 6827.3 |
| 55°   | 8182.8 | 8129.9 | 8331.1 | 8779.5 | 8828.9 | 8609.9 | 8204.0 | 7776.8 | 7247.4 | 7017.9 | 6989.7 |
| 56°   | 7865.2 | 7932.2 | 8249.9 | 8751.2 | 9005.4 | 8804.1 | 8214.6 | 7702.8 | 7120.3 | 6809.6 | 6788.5 |
| 57.5° | 7056.7 | 7021.4 | 7452.1 | 8136.9 | 8828.9 | 8744.2 | 7925.1 | 7173.2 | 6495.5 | 6145.9 | 6103.6 |
| 60°   | 4391.5 | 4493.9 | 4871.6 | 5718.8 | 6643.7 | 6686.0 | 5874.1 | 5228.1 | 4437.3 | 4126.7 | 4200.9 |
| 62.5° | 1719.2 | 1630.9 | 1867.5 | 2499.3 | 3134.7 | 3276.0 | 2968.8 | 2467.5 | 2026.3 | 1719.2 | 1698.0 |
| 65°   | 398.9  | 388.3  | 437.7  | 603.6  | 843.7  | 977.8  | 928.4  | 667.2  | 490.7  | 466.0  | 430.6  |
| 67.5° | 225.9  | 225.9  | 215.3  | 215.3  | 236.5  | 250.6  | 240.1  | 236.5  | 247.1  | 257.7  | 254.2  |
| 70°   | 158.9  | 155.3  | 148.3  | 151.8  | 144.7  | 144.7  | 155.3  | 173.0  | 187.1  | 187.1  | 190.7  |
| 72.5° | 95.3   | 95.3   | 95.3   | 105.9  | 105.9  | 105.9  | 116.5  | 130.6  | 134.1  | 130.6  | 127.1  |
| 75°   | 42.4   | 42.4   | 49.4   | 60.0   | 67.1   | 70.6   | 81.2   | 88.2   | 95.3   | 88.2   | 81.2   |
| 77.5° | 10.6   | 10.6   | 17.6   | 24.7   | 31.8   | 38.8   | 52.9   | 63.6   | 67.1   | 63.6   | 52.9   |
| 80°   | 3.5    | 3.5    | 7.0    | 17.6   | 31.8   | 38.8   | 52.9   | 56.5   | 60.0   | 52.9   | 42.4   |
| 82.5° | 3.5    | 3.5    | 7.0    | 17.6   | 24.7   | 31.8   | 42.4   | 49.4   | 52.9   | 45.9   | 42.4   |
| 85°   | 0.0    | 3.5    | 7.0    | 14.1   | 21.2   | 28.3   | 28.3   | 21.2   | 17.6   | 10.6   | 14.1   |
| 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)