

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: STREETWORKS

Report Number: P529834

Luminaire Tested: **GLAN-SA5A-735-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529834  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5A-735-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18830 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

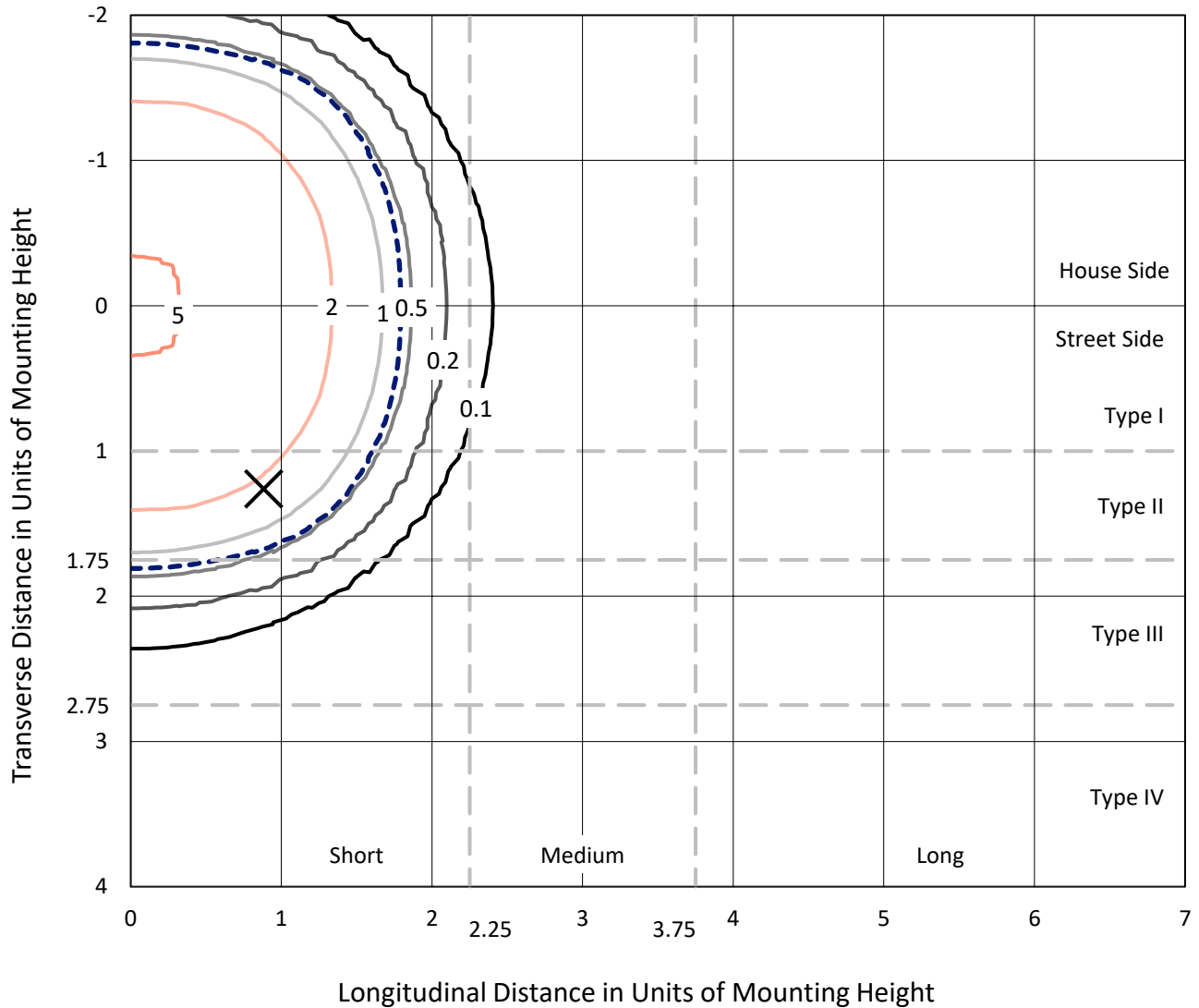
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

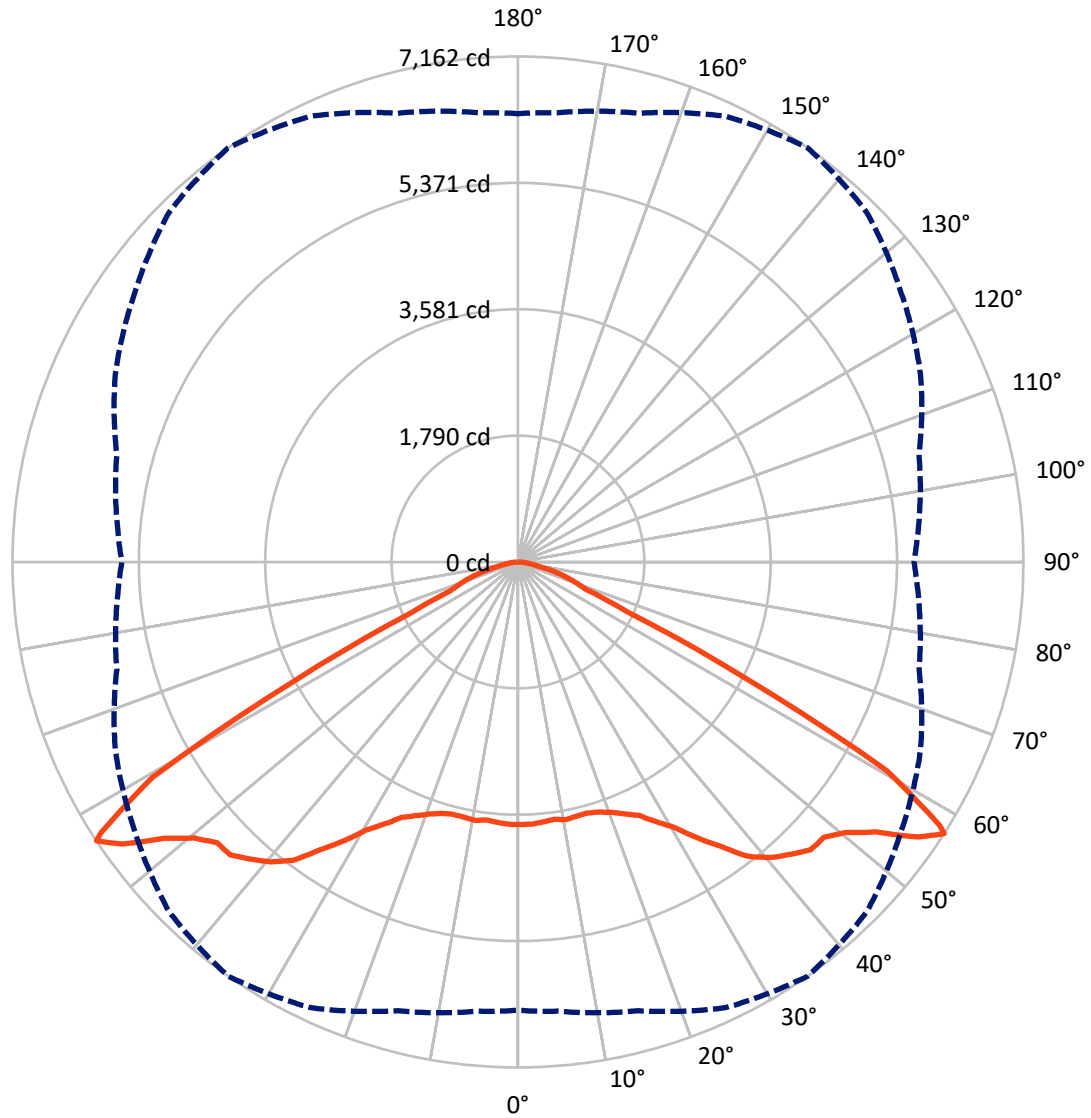
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

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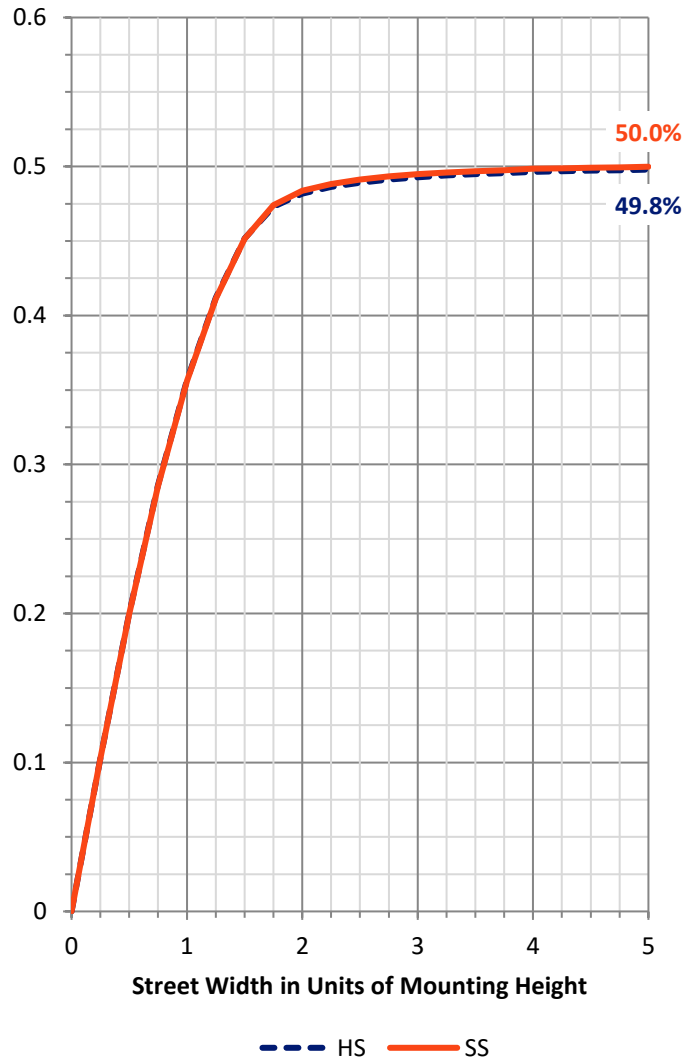
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9415.0   | 0.0    | 9415.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 9415.0   | 0.0    | 9415.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 18830.0  | 0.0    | 18830.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 352.6   | 1.9       |
| 10°-20°   | 1044.2  | 5.5       |
| 20°-30°   | 1823.6  | 9.7       |
| 30°-40°   | 2988.1  | 15.9      |
| 40°-50°   | 4381.2  | 23.3      |
| 50°-60°   | 5518.5  | 29.3      |
| 60°-70°   | 2075.5  | 11.0      |
| 70°-80°   | 551.9   | 2.9       |
| 80°-90°   | 94.6    | 0.5       |
| 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°    | 18830.0 | 100.0     |
| 0°-180°   | 18830.0 | 100.0     |

**Coefficient of Utilization**



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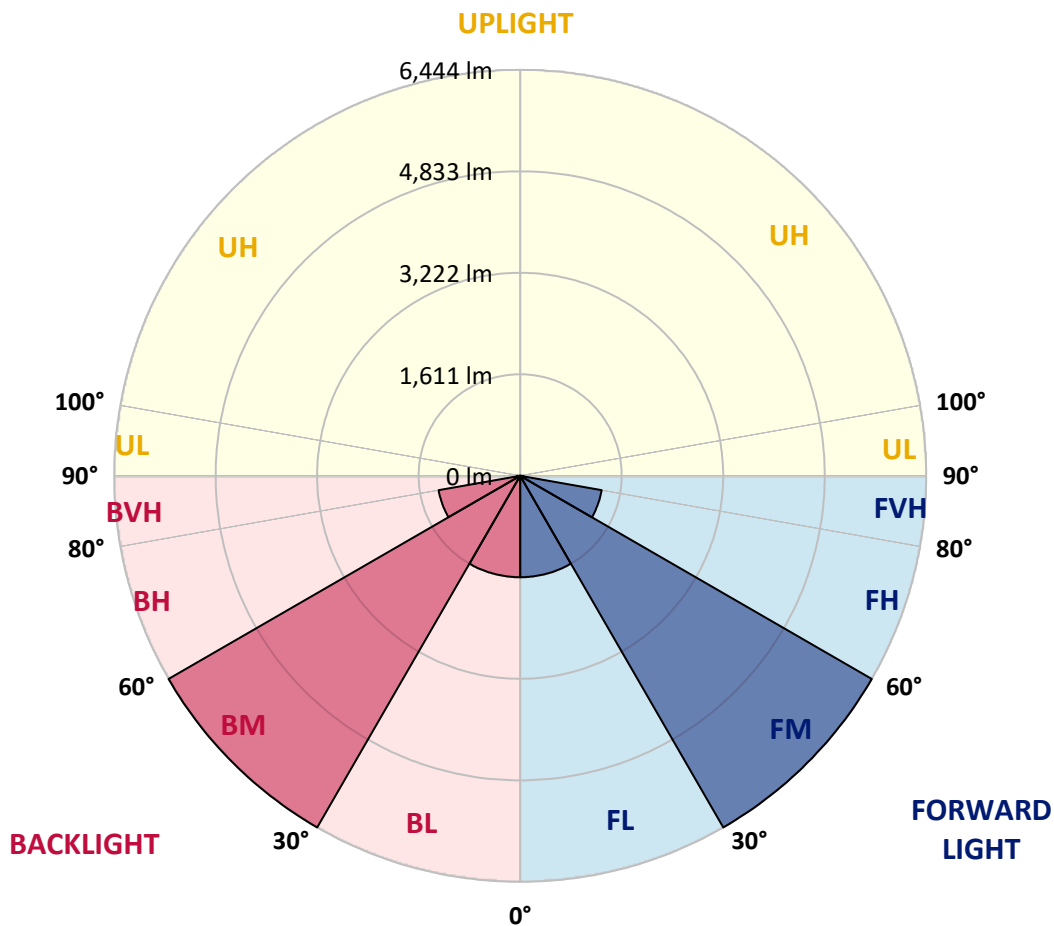
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1610.2 | 8.6       |                         |      |         |
| FM (30°-60°)   | 6443.9 | 34.2      |                         |      |         |
| FH (60°-80°)   | 1313.7 | 7.0       |                         |      | G1/1800 |
| FVH (80°-90°)  | 47.3   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 1610.2 | 8.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 6443.9 | 34.2      | B4/8500                 |      |         |
| BH (60°-80°)   | 1313.7 | 7.0       | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 47.3   | 0.3       |                         |      | 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°    | 3718.8 | 3718.8 | 3718.8 | 3718.8 | 3718.8 | 3718.8 | 3718.8 | 3718.8 | 3718.8 | 3718.8 | 3718.8 |
| 2.5°  | 3700.2 | 3737.3 | 3721.1 | 3711.8 | 3718.8 | 3707.2 | 3688.6 | 3709.5 | 3704.9 | 3686.3 | 3679.3 |
| 5°    | 3690.9 | 3718.8 | 3700.2 | 3718.8 | 3700.2 | 3732.7 | 3723.4 | 3688.6 | 3730.4 | 3690.9 | 3704.9 |
| 7.5°  | 3684.0 | 3693.3 | 3697.9 | 3688.6 | 3681.7 | 3721.1 | 3700.2 | 3684.0 | 3660.8 | 3653.8 | 3665.4 |
| 10°   | 3667.7 | 3690.9 | 3656.1 | 3702.5 | 3711.8 | 3684.0 | 3684.0 | 3653.8 | 3635.3 | 3623.7 | 3663.1 |
| 12.5° | 3709.5 | 3670.1 | 3665.4 | 3688.6 | 3695.6 | 3707.2 | 3674.7 | 3658.5 | 3623.7 | 3628.3 | 3621.4 |
| 15°   | 3660.8 | 3677.0 | 3679.3 | 3684.0 | 3690.9 | 3718.8 | 3688.6 | 3653.8 | 3639.9 | 3591.2 | 3595.8 |
| 17.5° | 3679.3 | 3663.1 | 3679.3 | 3732.7 | 3723.4 | 3744.3 | 3711.8 | 3658.5 | 3626.0 | 3598.2 | 3635.3 |
| 20°   | 3711.8 | 3704.9 | 3711.8 | 3776.8 | 3788.4 | 3806.9 | 3779.1 | 3730.4 | 3667.7 | 3635.3 | 3653.8 |
| 22.5° | 3746.6 | 3742.0 | 3746.6 | 3809.3 | 3876.5 | 3899.7 | 3871.9 | 3758.2 | 3725.7 | 3665.4 | 3644.5 |
| 25°   | 3809.3 | 3813.9 | 3862.6 | 3932.2 | 3976.3 | 4020.4 | 3969.3 | 3888.1 | 3783.7 | 3746.6 | 3702.5 |
| 27.5° | 3948.5 | 3960.1 | 3987.9 | 4090.0 | 4166.5 | 4206.0 | 4134.0 | 4022.7 | 3957.7 | 3881.2 | 3869.6 |
| 30°   | 4120.1 | 4120.1 | 4168.8 | 4257.0 | 4361.4 | 4421.7 | 4333.6 | 4201.3 | 4122.4 | 4080.7 | 4055.2 |
| 32.5° | 4347.5 | 4322.0 | 4340.5 | 4495.9 | 4658.3 | 4709.4 | 4591.1 | 4428.7 | 4303.4 | 4247.7 | 4229.2 |
| 35°   | 4542.3 | 4558.6 | 4600.3 | 4767.4 | 4948.3 | 5066.6 | 4881.1 | 4669.9 | 4542.3 | 4491.3 | 4482.0 |
| 37.5° | 4795.2 | 4823.1 | 4843.9 | 5073.6 | 5291.7 | 5335.8 | 5157.1 | 4987.8 | 4832.3 | 4790.6 | 4767.4 |
| 40°   | 5152.5 | 5133.9 | 5140.9 | 5310.2 | 5507.4 | 5535.3 | 5358.9 | 5238.3 | 5110.7 | 5085.2 | 5085.2 |
| 42.5° | 5447.1 | 5426.2 | 5449.4 | 5512.1 | 5662.9 | 5642.0 | 5544.5 | 5456.4 | 5403.0 | 5375.2 | 5403.0 |
| 45°   | 5625.7 | 5621.1 | 5662.9 | 5709.3 | 5816.0 | 5746.4 | 5669.8 | 5683.7 | 5632.7 | 5586.3 | 5584.0 |
| 47.5° | 5820.6 | 5790.4 | 5841.5 | 5911.1 | 5829.9 | 5797.4 | 5792.8 | 5822.9 | 5806.7 | 5725.5 | 5700.0 |
| 50°   | 5915.7 | 5904.1 | 5985.3 | 6066.5 | 6022.4 | 5948.2 | 5964.4 | 6013.2 | 5804.4 | 5695.3 | 5632.7 |
| 52.5° | 6170.9 | 6173.2 | 6328.7 | 6372.7 | 6354.2 | 6245.1 | 6279.9 | 6147.7 | 5901.8 | 5748.7 | 5755.7 |
| 55°   | 6572.3 | 6556.0 | 6730.0 | 6859.9 | 6880.8 | 6741.6 | 6574.6 | 6389.0 | 6080.4 | 5925.0 | 5878.6 |
| 57°   | 6351.9 | 6389.0 | 6581.5 | 6966.6 | 7161.5 | 6996.8 | 6632.6 | 6293.9 | 5883.2 | 5695.3 | 5611.8 |
| 57.5° | 6057.2 | 6117.6 | 6451.6 | 6839.0 | 7043.2 | 7029.3 | 6560.7 | 6117.6 | 5751.0 | 5458.7 | 5465.7 |
| 60°   | 4438.0 | 4449.6 | 4751.1 | 5365.9 | 6003.9 | 6017.8 | 5447.1 | 4860.2 | 4451.9 | 4134.0 | 4178.1 |
| 62.5° | 2340.8 | 2394.1 | 2514.8 | 3008.9 | 3561.0 | 3695.6 | 3349.9 | 3048.3 | 2695.7 | 2454.4 | 2477.6 |
| 65°   | 1238.8 | 1231.9 | 1289.9 | 1429.1 | 1700.5 | 1770.1 | 1723.7 | 1484.7 | 1361.8 | 1322.3 | 1324.7 |
| 67.5° | 1006.8 | 1018.4 | 1011.5 | 1018.4 | 1037.0 | 1067.2 | 1060.2 | 1069.5 | 1076.4 | 1088.0 | 1085.7 |
| 70°   | 853.7  | 853.7  | 858.4  | 860.7  | 860.7  | 874.6  | 890.8  | 921.0  | 923.3  | 934.9  | 939.6  |
| 72.5° | 672.8  | 668.1  | 675.1  | 691.3  | 693.6  | 705.2  | 728.4  | 747.0  | 754.0  | 754.0  | 740.0  |
| 75°   | 457.0  | 461.7  | 470.9  | 484.9  | 498.8  | 519.7  | 538.2  | 549.8  | 554.5  | 547.5  | 540.5  |
| 77.5° | 257.5  | 262.1  | 269.1  | 290.0  | 306.2  | 324.8  | 345.7  | 357.3  | 368.9  | 371.2  | 357.3  |
| 80°   | 153.1  | 153.1  | 164.7  | 181.0  | 199.5  | 218.1  | 236.6  | 250.5  | 255.2  | 255.2  | 248.2  |
| 82.5° | 92.8   | 95.1   | 104.4  | 120.6  | 136.9  | 148.5  | 164.7  | 176.3  | 185.6  | 183.3  | 178.6  |
| 85°   | 48.7   | 48.7   | 58.0   | 71.9   | 83.5   | 95.1   | 95.1   | 88.2   | 83.5   | 71.9   | 67.3   |
| 87.5° | 16.2   | 13.9   | 18.6   | 18.6   | 16.2   | 18.6   | 18.6   | 20.9   | 20.9   | 20.9   | 20.9   |
| 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)