

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: P529912

Luminaire Tested: **GLAN-SA5A-760-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529912  
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-760-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5700K, 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: 20215 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

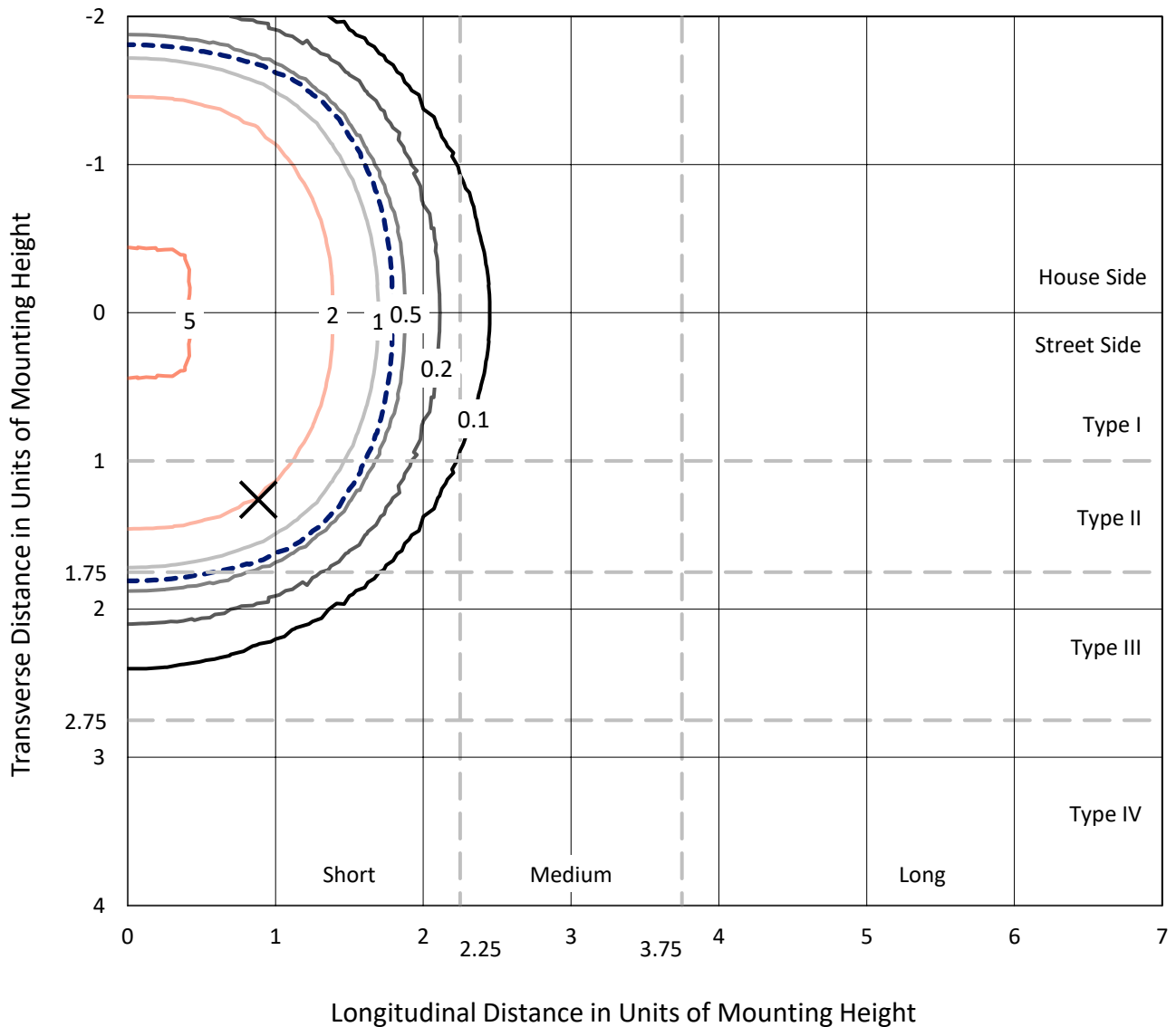
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

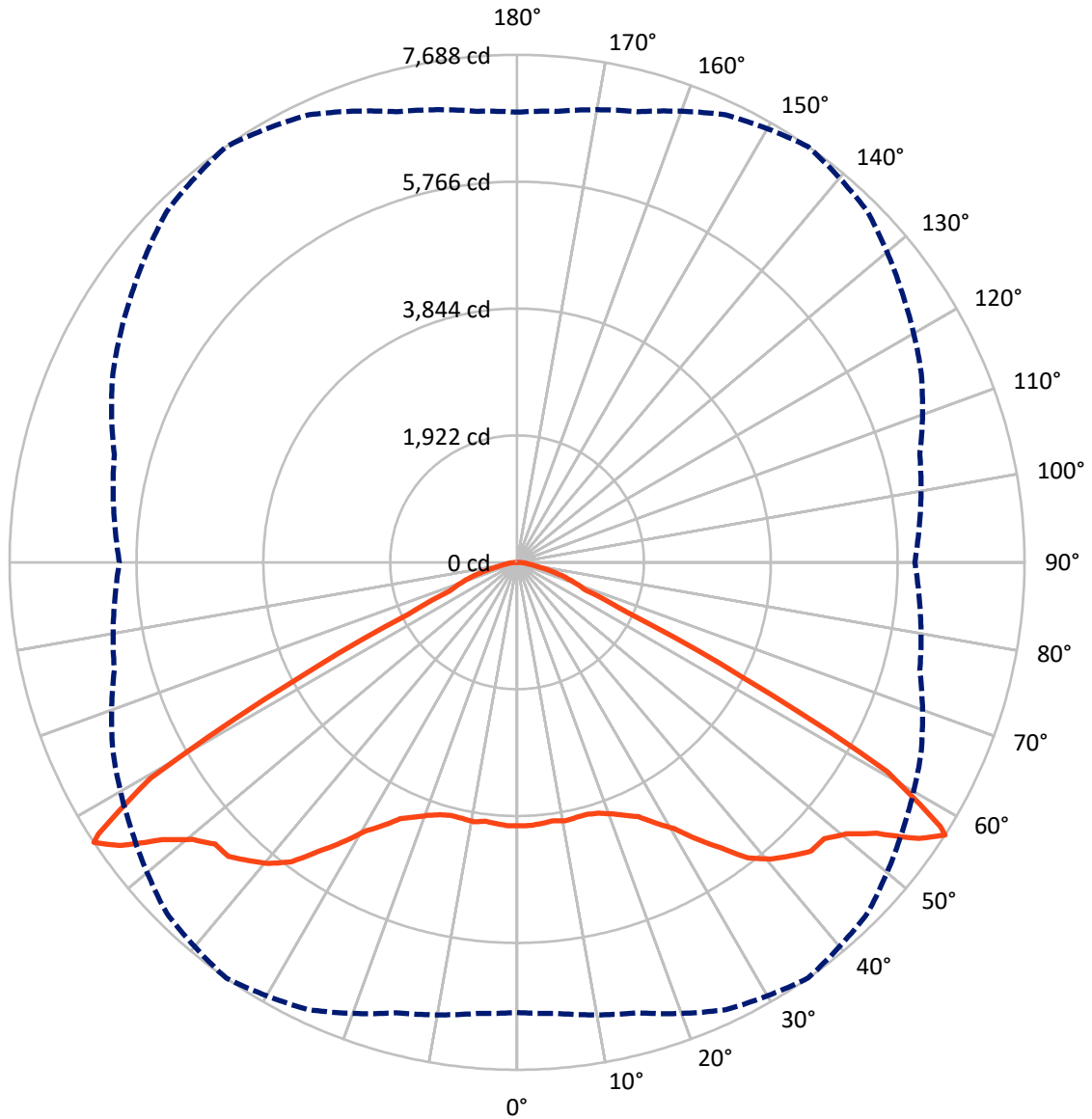
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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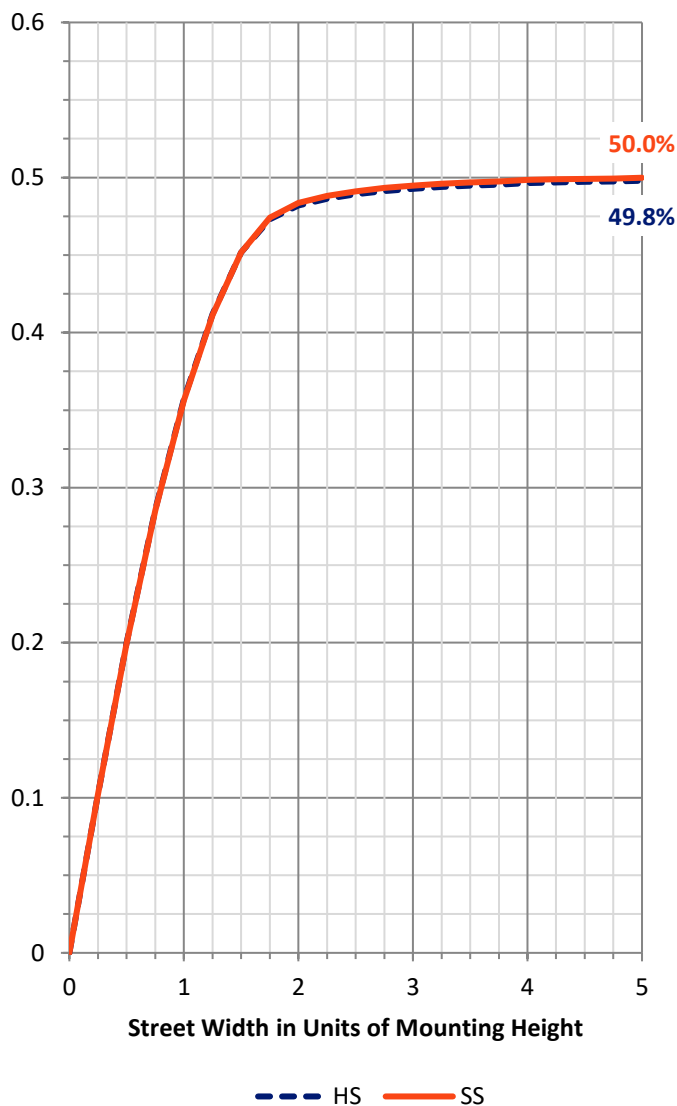
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10107.5  | 0.0    | 10107.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 10107.5  | 0.0    | 10107.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 20215.0  | 0.0    | 20215.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 378.5   | 1.9       |
| 10°-20°   | 1121.0  | 5.5       |
| 20°-30°   | 1957.8  | 9.7       |
| 30°-40°   | 3207.8  | 15.9      |
| 40°-50°   | 4703.5  | 23.3      |
| 50°-60°   | 5924.4  | 29.3      |
| 60°-70°   | 2228.1  | 11.0      |
| 70°-80°   | 592.4   | 2.9       |
| 80°-90°   | 101.6   | 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°    | 20215.0 | 100.0     |
| 0°-180°   | 20215.0 | 100.0     |

**Coefficient of Utilization**



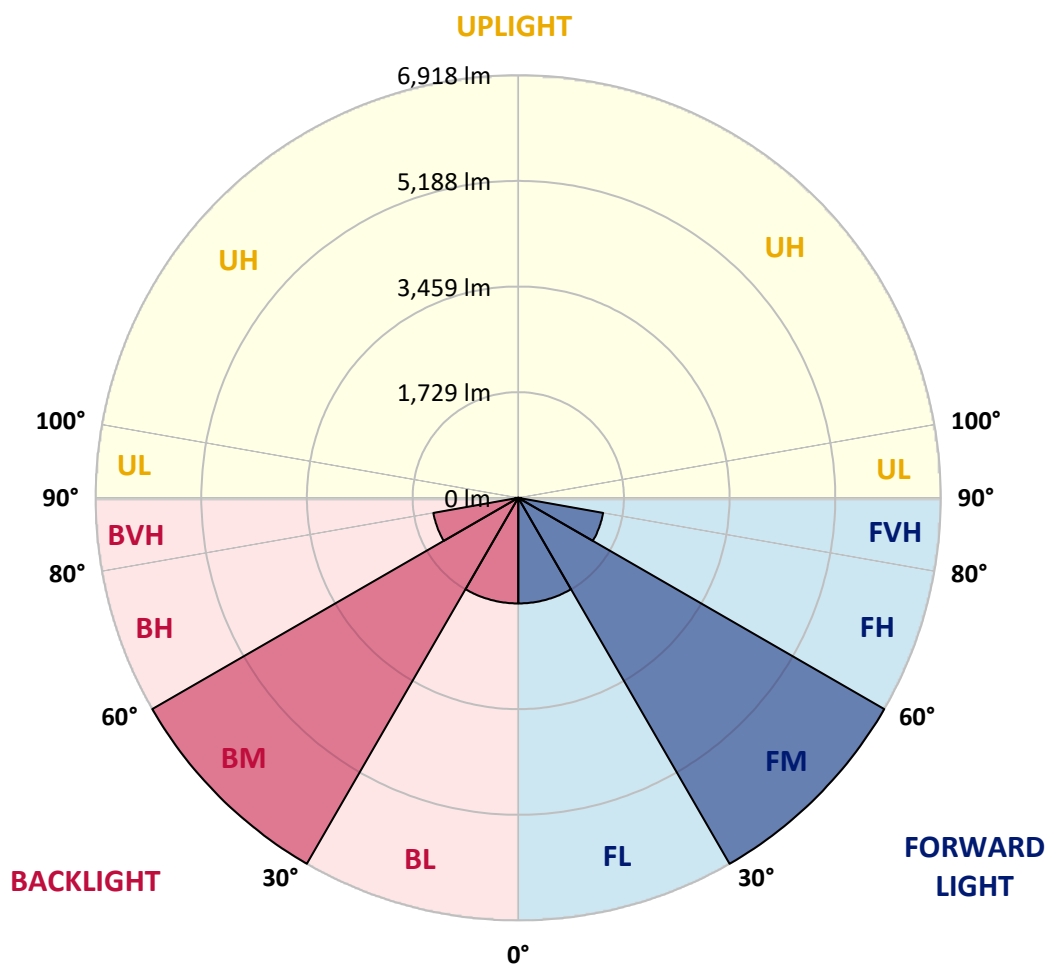
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1728.6 | 8.6       |                         |      |         |
| FM (30°-60°)   | 6917.8 | 34.2      |                         |      |         |
| FH (60°-80°)   | 1410.3 | 7.0       |                         |      | G1/1800 |
| FVH (80°-90°)  | 50.8   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 1728.6 | 8.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 6917.8 | 34.2      | B4/8500                 |      |         |
| BH (60°-80°)   | 1410.3 | 7.0       | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 50.8   | 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°    | 3992.3 | 3992.3 | 3992.3 | 3992.3 | 3992.3 | 3992.3 | 3992.3 | 3992.3 | 3992.3 | 3992.3 | 3992.3 |
| 2.5°  | 3972.4 | 4012.2 | 3994.8 | 3984.8 | 3992.3 | 3979.9 | 3959.9 | 3982.4 | 3977.4 | 3957.4 | 3950.0 |
| 5°    | 3962.4 | 3992.3 | 3972.4 | 3992.3 | 3972.4 | 4007.3 | 3997.3 | 3959.9 | 4004.8 | 3962.4 | 3977.4 |
| 7.5°  | 3955.0 | 3964.9 | 3969.9 | 3959.9 | 3952.5 | 3994.8 | 3972.4 | 3955.0 | 3930.1 | 3922.6 | 3935.0 |
| 10°   | 3937.5 | 3962.4 | 3925.1 | 3974.9 | 3984.8 | 3955.0 | 3955.0 | 3922.6 | 3902.7 | 3890.2 | 3932.5 |
| 12.5° | 3982.4 | 3940.0 | 3935.0 | 3959.9 | 3967.4 | 3979.9 | 3945.0 | 3927.6 | 3890.2 | 3895.2 | 3887.7 |
| 15°   | 3930.1 | 3947.5 | 3950.0 | 3955.0 | 3962.4 | 3992.3 | 3959.9 | 3922.6 | 3907.6 | 3855.3 | 3860.3 |
| 17.5° | 3950.0 | 3932.5 | 3950.0 | 4007.3 | 3997.3 | 4019.7 | 3984.8 | 3927.6 | 3892.7 | 3862.8 | 3902.7 |
| 20°   | 3984.8 | 3977.4 | 3984.8 | 4054.6 | 4067.0 | 4087.0 | 4057.1 | 4004.8 | 3937.5 | 3902.7 | 3922.6 |
| 22.5° | 4022.2 | 4017.2 | 4022.2 | 4089.4 | 4161.7 | 4186.6 | 4156.7 | 4034.7 | 3999.8 | 3935.0 | 3912.6 |
| 25°   | 4089.4 | 4094.4 | 4146.7 | 4221.4 | 4268.8 | 4316.1 | 4261.3 | 4174.1 | 4062.0 | 4022.2 | 3974.9 |
| 27.5° | 4238.9 | 4251.3 | 4281.2 | 4390.8 | 4473.0 | 4515.3 | 4438.1 | 4318.6 | 4248.8 | 4166.7 | 4154.2 |
| 30°   | 4423.2 | 4423.2 | 4475.5 | 4570.1 | 4682.2 | 4746.9 | 4652.3 | 4510.3 | 4425.7 | 4380.8 | 4353.4 |
| 32.5° | 4667.2 | 4639.9 | 4659.8 | 4826.6 | 5001.0 | 5055.8 | 4928.8 | 4754.4 | 4619.9 | 4560.2 | 4540.2 |
| 35°   | 4876.5 | 4893.9 | 4938.7 | 5118.0 | 5312.3 | 5439.3 | 5240.1 | 5013.4 | 4876.5 | 4821.7 | 4811.7 |
| 37.5° | 5147.9 | 5177.8 | 5200.2 | 5446.8 | 5680.9 | 5728.2 | 5536.4 | 5354.6 | 5187.8 | 5142.9 | 5118.0 |
| 40°   | 5531.5 | 5511.5 | 5519.0 | 5700.8 | 5912.5 | 5942.4 | 5753.1 | 5623.6 | 5486.6 | 5459.2 | 5459.2 |
| 42.5° | 5847.8 | 5825.3 | 5850.2 | 5917.5 | 6079.4 | 6057.0 | 5952.4 | 5857.7 | 5800.4 | 5770.5 | 5800.4 |
| 45°   | 6039.5 | 6034.5 | 6079.4 | 6129.2 | 6243.7 | 6169.0 | 6086.8 | 6101.8 | 6047.0 | 5997.2 | 5994.7 |
| 47.5° | 6248.7 | 6216.4 | 6271.1 | 6345.9 | 6258.7 | 6223.8 | 6218.8 | 6251.2 | 6233.8 | 6146.6 | 6119.2 |
| 50°   | 6350.8 | 6338.4 | 6425.6 | 6512.7 | 6465.4 | 6385.7 | 6403.1 | 6455.4 | 6231.3 | 6114.2 | 6047.0 |
| 52.5° | 6624.8 | 6627.3 | 6794.2 | 6841.5 | 6821.6 | 6704.5 | 6741.9 | 6599.9 | 6335.9 | 6171.5 | 6179.0 |
| 55°   | 7055.7 | 7038.2 | 7225.0 | 7364.5 | 7386.9 | 7237.5 | 7058.2 | 6858.9 | 6527.7 | 6360.8 | 6311.0 |
| 57°   | 6819.1 | 6858.9 | 7065.6 | 7479.1 | 7688.3 | 7511.4 | 7120.4 | 6756.8 | 6316.0 | 6114.2 | 6024.6 |
| 57.5° | 6502.8 | 6567.5 | 6926.2 | 7342.1 | 7561.2 | 7546.3 | 7043.2 | 6567.5 | 6174.0 | 5860.2 | 5867.7 |
| 60°   | 4764.4 | 4776.8 | 5100.6 | 5760.6 | 6445.5 | 6460.4 | 5847.8 | 5217.7 | 4779.3 | 4438.1 | 4485.4 |
| 62.5° | 2512.9 | 2570.2 | 2699.7 | 3230.2 | 3823.0 | 3967.4 | 3596.3 | 3272.6 | 2894.0 | 2635.0 | 2659.9 |
| 65°   | 1329.9 | 1322.5 | 1384.7 | 1534.2 | 1825.6 | 1900.3 | 1850.5 | 1593.9 | 1461.9 | 1419.6 | 1422.1 |
| 67.5° | 1080.9 | 1093.3 | 1085.9 | 1093.3 | 1113.3 | 1145.6 | 1138.2 | 1148.1 | 1155.6 | 1168.1 | 1165.6 |
| 70°   | 916.5  | 916.5  | 921.5  | 924.0  | 924.0  | 938.9  | 956.4  | 988.7  | 991.2  | 1003.7 | 1008.7 |
| 72.5° | 722.3  | 717.3  | 724.7  | 742.2  | 744.7  | 757.1  | 782.0  | 801.9  | 809.4  | 809.4  | 794.5  |
| 75°   | 490.6  | 495.6  | 505.6  | 520.5  | 535.5  | 557.9  | 577.8  | 590.3  | 595.2  | 587.8  | 580.3  |
| 77.5° | 276.4  | 281.4  | 288.9  | 311.3  | 328.7  | 348.7  | 371.1  | 383.5  | 396.0  | 398.5  | 383.5  |
| 80°   | 164.4  | 164.4  | 176.8  | 194.3  | 214.2  | 234.1  | 254.0  | 269.0  | 274.0  | 274.0  | 266.5  |
| 82.5° | 99.6   | 102.1  | 112.1  | 129.5  | 146.9  | 159.4  | 176.8  | 189.3  | 199.2  | 196.8  | 191.8  |
| 85°   | 52.3   | 52.3   | 62.3   | 77.2   | 89.7   | 102.1  | 102.1  | 94.6   | 89.7   | 77.2   | 72.2   |
| 87.5° | 17.4   | 14.9   | 19.9   | 19.9   | 17.4   | 19.9   | 19.9   | 22.4   | 22.4   | 22.4   | 22.4   |
| 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)