

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: P531836

Luminaire Tested: **GLAN-SA7A-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531836  
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-SA7A-830-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 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: 22341 lumens  
Efficiency: N/A  
Efficacy: 103.9 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): 215  
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

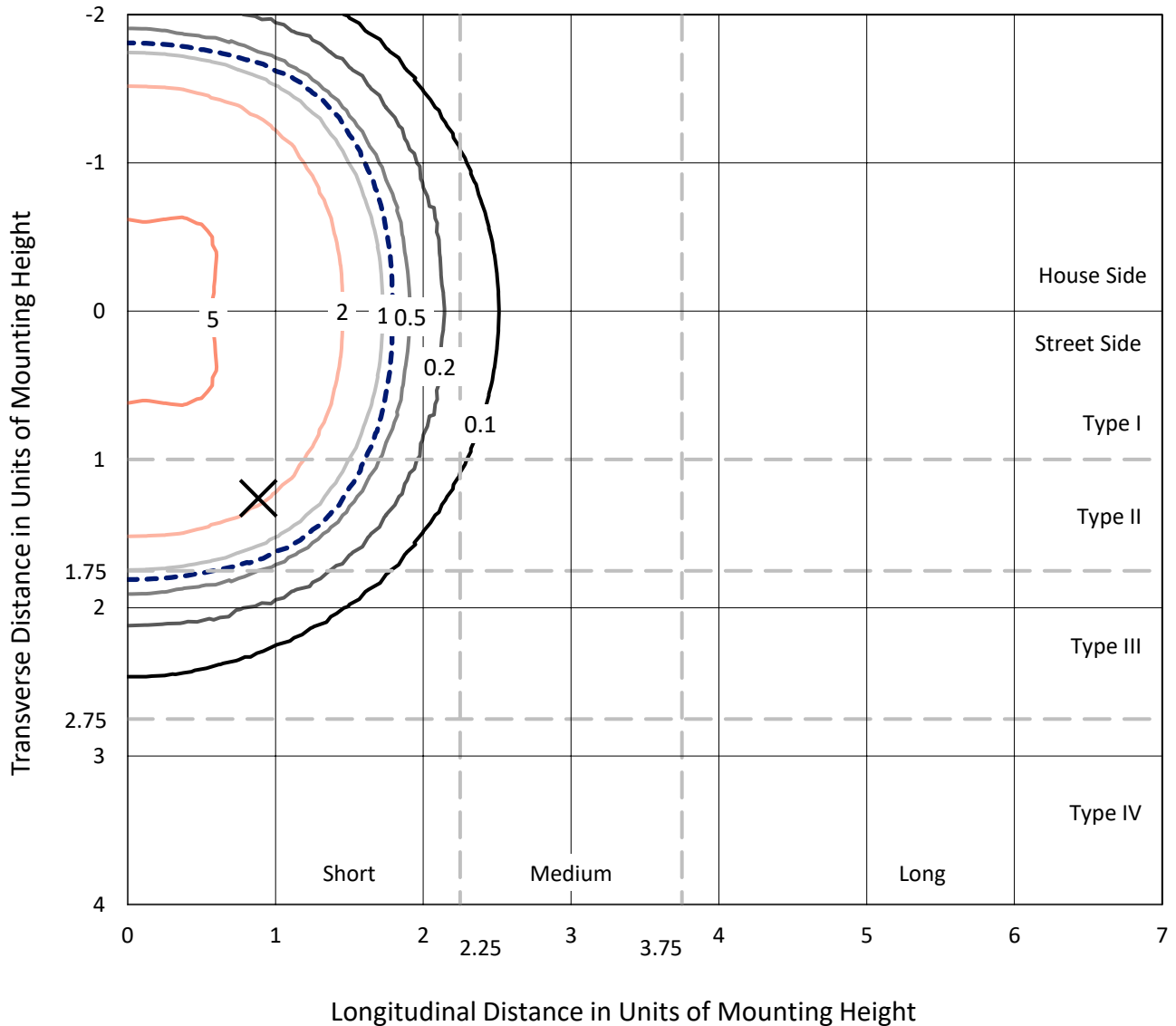




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### Iso-Footcandle Lines of Horizontal Illumination

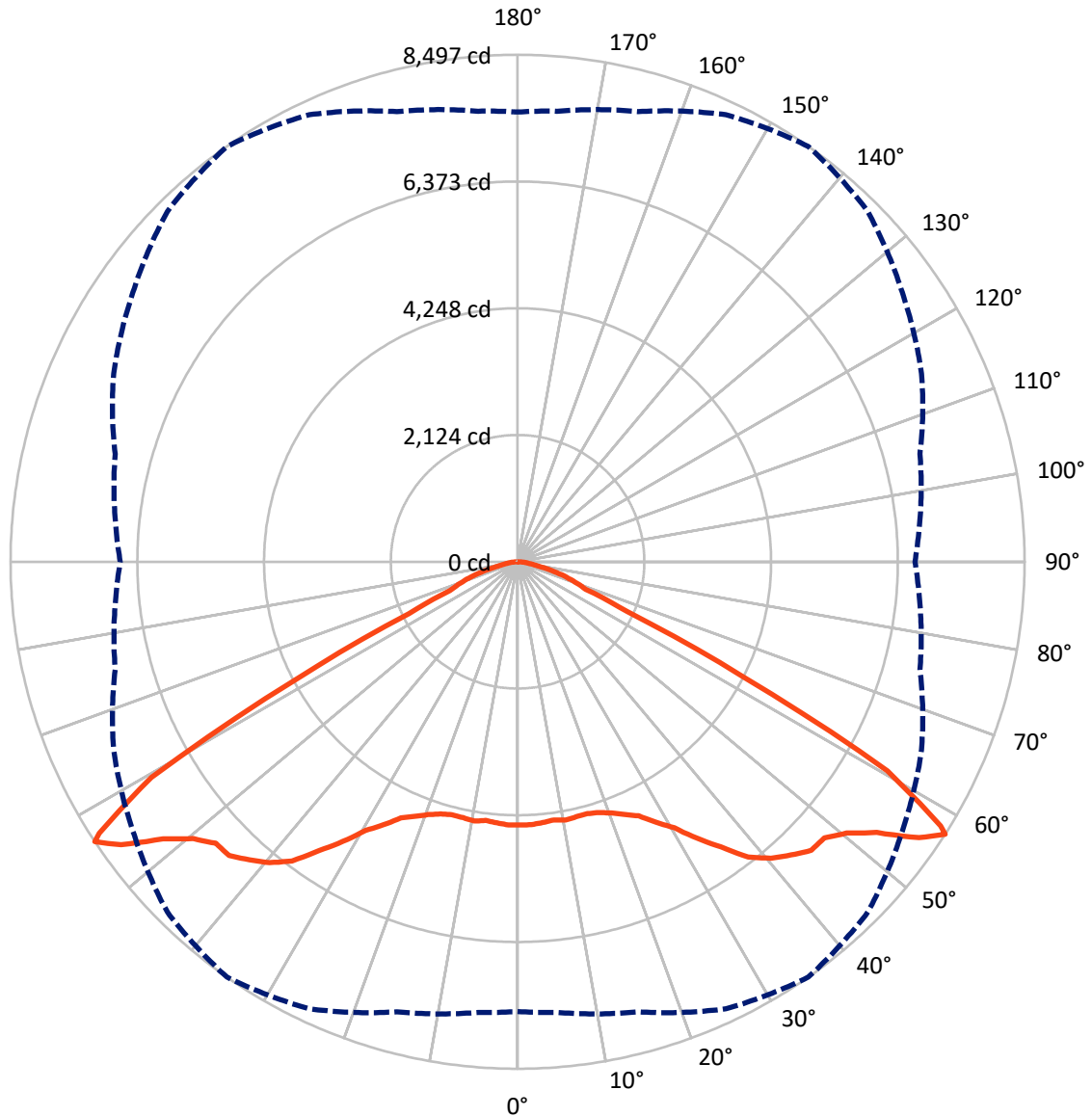
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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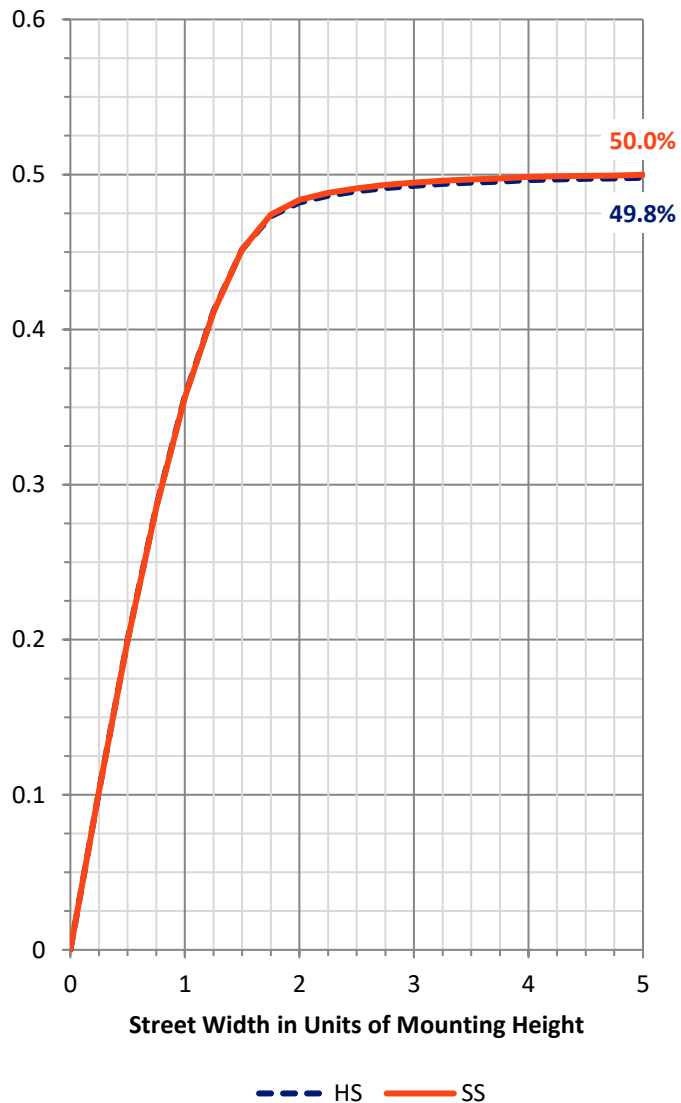
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11170.5  | 0.0    | 11170.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11170.5  | 0.0    | 11170.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 22341.0  | 0.0    | 22341.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 418.3   | 1.9       |
| 10°-20°   | 1238.9  | 5.5       |
| 20°-30°   | 2163.7  | 9.7       |
| 30°-40°   | 3545.2  | 15.9      |
| 40°-50°   | 5198.1  | 23.3      |
| 50°-60°   | 6547.4  | 29.3      |
| 60°-70°   | 2462.4  | 11.0      |
| 70°-80°   | 654.7   | 2.9       |
| 80°-90°   | 112.3   | 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°    | 22341.0 | 100.0     |
| 0°-180°   | 22341.0 | 100.0     |

**Coefficient of Utilization**



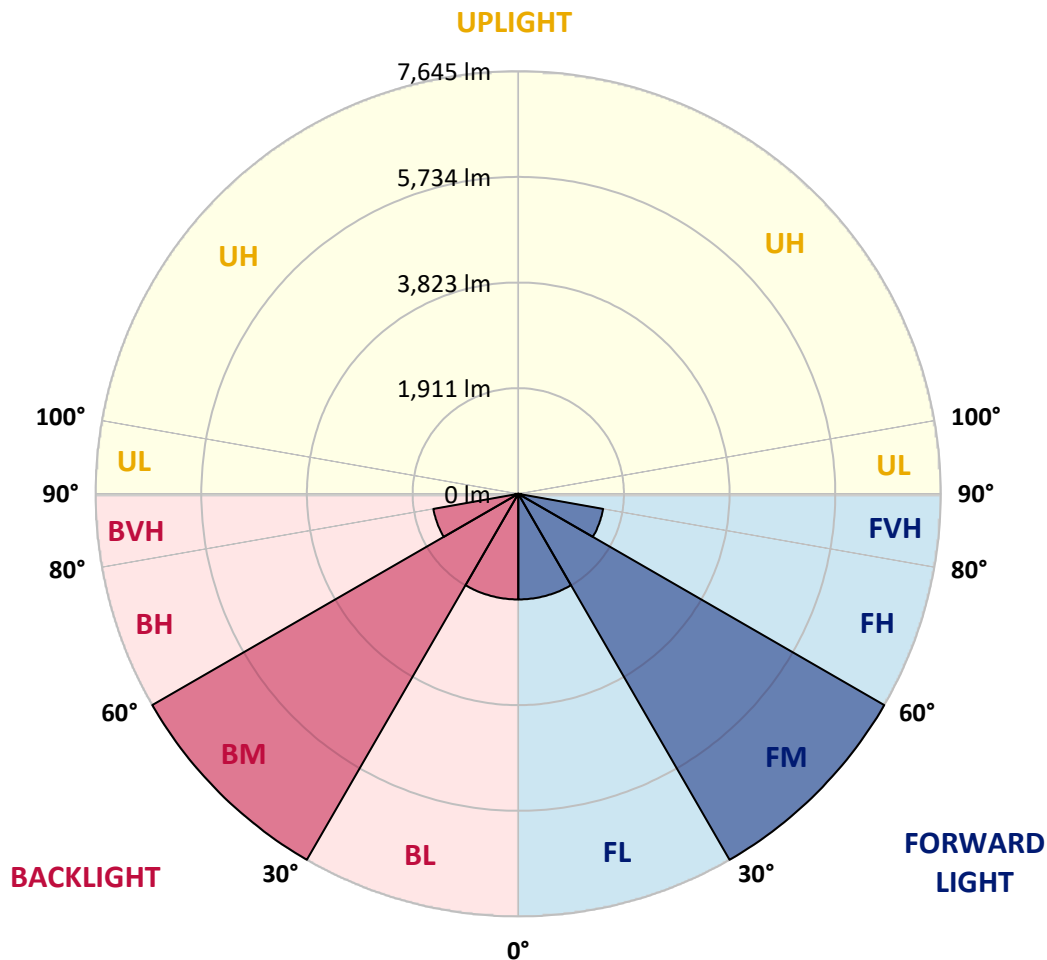
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1910.4 | 8.6       |                         |      |         |
| FM (30°-60°)   | 7645.4 | 34.2      |                         |      |         |
| FH (60°-80°)   | 1558.6 | 7.0       |                         |      | G1/1800 |
| FVH (80°-90°)  | 56.1   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 1910.4 | 8.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 7645.4 | 34.2      | B4/8500                 |      |         |
| BH (60°-80°)   | 1558.6 | 7.0       | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 56.1   | 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°    | 4412.2 | 4412.2 | 4412.2 | 4412.2 | 4412.2 | 4412.2 | 4412.2 | 4412.2 | 4412.2 | 4412.2 | 4412.2 |
| 2.5°  | 4390.2 | 4434.2 | 4414.9 | 4403.9 | 4412.2 | 4398.4 | 4376.4 | 4401.2 | 4395.7 | 4373.6 | 4365.4 |
| 5°    | 4379.2 | 4412.2 | 4390.2 | 4412.2 | 4390.2 | 4428.7 | 4417.7 | 4376.4 | 4425.9 | 4379.2 | 4395.7 |
| 7.5°  | 4370.9 | 4381.9 | 4387.4 | 4376.4 | 4368.1 | 4414.9 | 4390.2 | 4370.9 | 4343.4 | 4335.1 | 4348.9 |
| 10°   | 4351.6 | 4379.2 | 4337.9 | 4392.9 | 4403.9 | 4370.9 | 4370.9 | 4335.1 | 4313.1 | 4299.3 | 4346.1 |
| 12.5° | 4401.2 | 4354.4 | 4348.9 | 4376.4 | 4384.7 | 4398.4 | 4359.9 | 4340.6 | 4299.3 | 4304.8 | 4296.6 |
| 15°   | 4343.4 | 4362.6 | 4365.4 | 4370.9 | 4379.2 | 4412.2 | 4376.4 | 4335.1 | 4318.6 | 4260.8 | 4266.3 |
| 17.5° | 4365.4 | 4346.1 | 4365.4 | 4428.7 | 4417.7 | 4442.5 | 4403.9 | 4340.6 | 4302.1 | 4269.1 | 4313.1 |
| 20°   | 4403.9 | 4395.7 | 4403.9 | 4481.0 | 4494.8 | 4516.8 | 4483.7 | 4425.9 | 4351.6 | 4313.1 | 4335.1 |
| 22.5° | 4445.2 | 4439.7 | 4445.2 | 4519.5 | 4599.3 | 4626.9 | 4593.8 | 4459.0 | 4420.4 | 4348.9 | 4324.1 |
| 25°   | 4519.5 | 4525.0 | 4582.8 | 4665.4 | 4717.7 | 4770.0 | 4709.4 | 4613.1 | 4489.3 | 4445.2 | 4392.9 |
| 27.5° | 4684.7 | 4698.4 | 4731.5 | 4852.6 | 4943.4 | 4990.2 | 4904.9 | 4772.8 | 4695.7 | 4604.9 | 4591.1 |
| 30°   | 4888.4 | 4888.4 | 4946.2 | 5050.8 | 5174.6 | 5246.2 | 5141.6 | 4984.7 | 4891.1 | 4841.6 | 4811.3 |
| 32.5° | 5158.1 | 5127.8 | 5149.8 | 5334.3 | 5526.9 | 5587.5 | 5447.1 | 5254.4 | 5105.8 | 5039.7 | 5017.7 |
| 35°   | 5389.3 | 5408.6 | 5458.1 | 5656.3 | 5871.0 | 6011.4 | 5791.2 | 5540.7 | 5389.3 | 5328.7 | 5317.7 |
| 37.5° | 5689.3 | 5722.4 | 5747.1 | 6019.6 | 6278.3 | 6330.6 | 6118.7 | 5917.8 | 5733.4 | 5683.8 | 5656.3 |
| 40°   | 6113.2 | 6091.2 | 6099.4 | 6300.4 | 6534.3 | 6567.4 | 6358.2 | 6215.0 | 6063.7 | 6033.4 | 6033.4 |
| 42.5° | 6462.8 | 6438.0 | 6465.5 | 6539.8 | 6718.7 | 6694.0 | 6578.4 | 6473.8 | 6410.5 | 6377.4 | 6410.5 |
| 45°   | 6674.7 | 6669.2 | 6718.7 | 6773.8 | 6900.4 | 6817.8 | 6727.0 | 6743.5 | 6683.0 | 6627.9 | 6625.2 |
| 47.5° | 6905.9 | 6870.1 | 6930.7 | 7013.3 | 6916.9 | 6878.4 | 6872.9 | 6908.7 | 6889.4 | 6793.1 | 6762.8 |
| 50°   | 7018.8 | 7005.0 | 7101.3 | 7197.7 | 7145.4 | 7057.3 | 7076.6 | 7134.4 | 6886.6 | 6757.3 | 6683.0 |
| 52.5° | 7321.5 | 7324.3 | 7508.7 | 7561.0 | 7539.0 | 7409.6 | 7450.9 | 7294.0 | 7002.2 | 6820.6 | 6828.8 |
| 55°   | 7797.7 | 7778.4 | 7984.9 | 8139.0 | 8163.8 | 7998.6 | 7800.5 | 7580.3 | 7214.2 | 7029.8 | 6974.7 |
| 57°   | 7536.2 | 7580.3 | 7808.7 | 8265.6 | 8496.8 | 8301.4 | 7869.3 | 7467.4 | 6980.2 | 6757.3 | 6658.2 |
| 57.5° | 7186.7 | 7258.2 | 7654.6 | 8114.2 | 8356.4 | 8339.9 | 7783.9 | 7258.2 | 6823.3 | 6476.5 | 6484.8 |
| 60°   | 5265.4 | 5279.2 | 5637.0 | 6366.4 | 7123.3 | 7139.9 | 6462.8 | 5766.4 | 5282.0 | 4904.9 | 4957.2 |
| 62.5° | 2777.2 | 2840.5 | 2983.7 | 3569.9 | 4225.0 | 4384.7 | 3974.5 | 3616.7 | 3198.4 | 2912.1 | 2939.6 |
| 65°   | 1469.8 | 1461.6 | 1530.4 | 1695.5 | 2017.5 | 2100.1 | 2045.1 | 1761.6 | 1615.7 | 1568.9 | 1571.7 |
| 67.5° | 1194.6 | 1208.3 | 1200.1 | 1208.3 | 1230.3 | 1266.1 | 1257.9 | 1268.9 | 1277.1 | 1290.9 | 1288.1 |
| 70°   | 1012.9 | 1012.9 | 1018.4 | 1021.2 | 1021.2 | 1037.7 | 1056.9 | 1092.7 | 1095.5 | 1109.2 | 1114.7 |
| 72.5° | 798.2  | 792.7  | 801.0  | 820.2  | 823.0  | 836.7  | 864.3  | 886.3  | 894.5  | 894.5  | 878.0  |
| 75°   | 542.2  | 547.7  | 558.7  | 575.3  | 591.8  | 616.5  | 638.6  | 652.3  | 657.8  | 649.6  | 641.3  |
| 77.5° | 305.5  | 311.0  | 319.3  | 344.1  | 363.3  | 385.3  | 410.1  | 423.9  | 437.6  | 440.4  | 423.9  |
| 80°   | 181.7  | 181.7  | 195.4  | 214.7  | 236.7  | 258.7  | 280.8  | 297.3  | 302.8  | 302.8  | 294.5  |
| 82.5° | 110.1  | 112.9  | 123.9  | 143.1  | 162.4  | 176.2  | 195.4  | 209.2  | 220.2  | 217.4  | 211.9  |
| 85°   | 57.8   | 57.8   | 68.8   | 85.3   | 99.1   | 112.9  | 112.9  | 104.6  | 99.1   | 85.3   | 79.8   |
| 87.5° | 19.3   | 16.5   | 22.0   | 22.0   | 19.3   | 22.0   | 22.0   | 24.8   | 24.8   | 24.8   | 24.8   |
| 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)