

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: P531680

Luminaire Tested: **GLAN-SA7A-730-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531680  
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-730-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 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: 25605 lumens  
Efficiency: N/A  
Efficacy: 119.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - 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



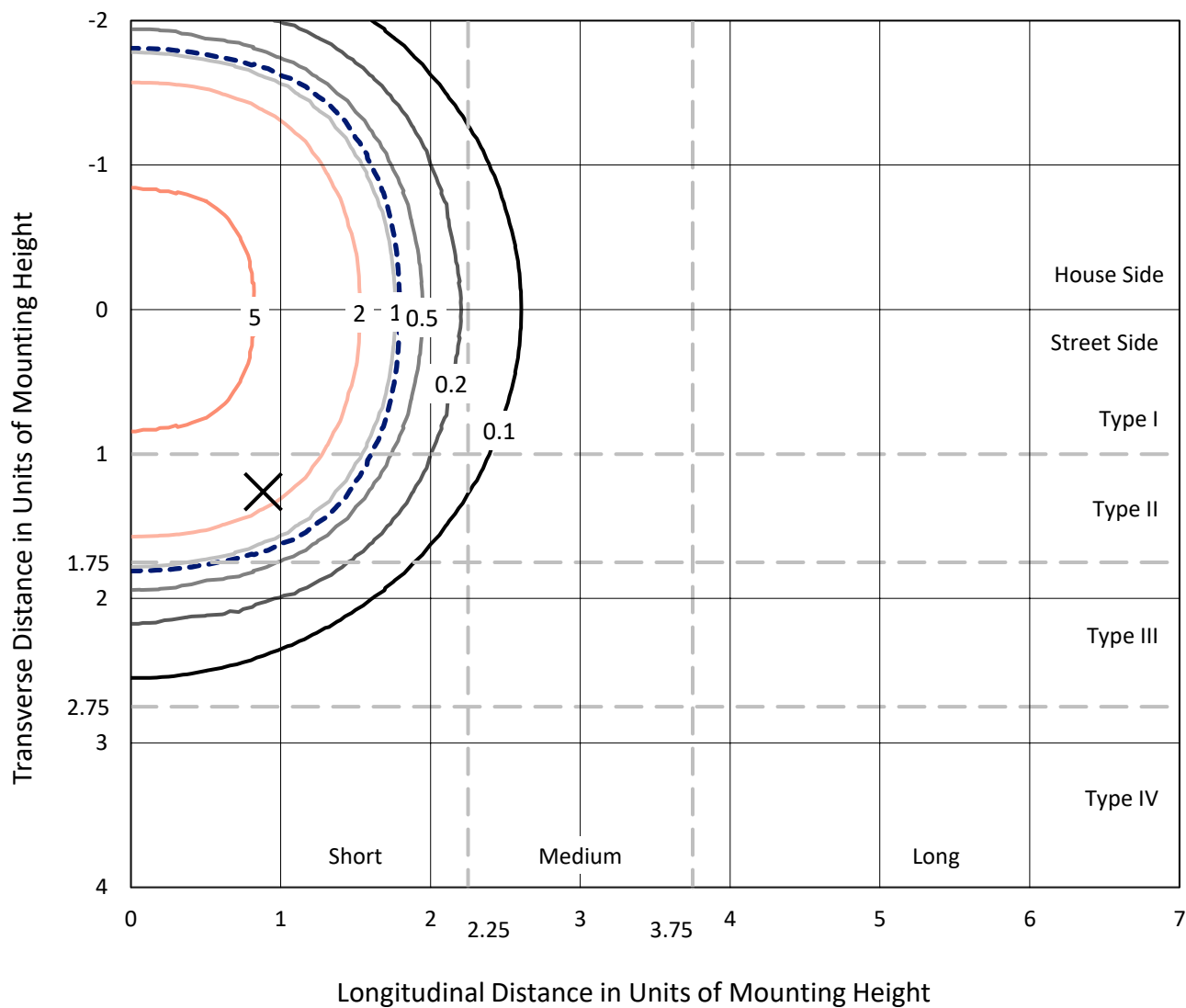
REPORT NUMBER: P531680

CATALOG NUMBER: GLAN-SA7A-730-U-5MQ-GRSWH

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

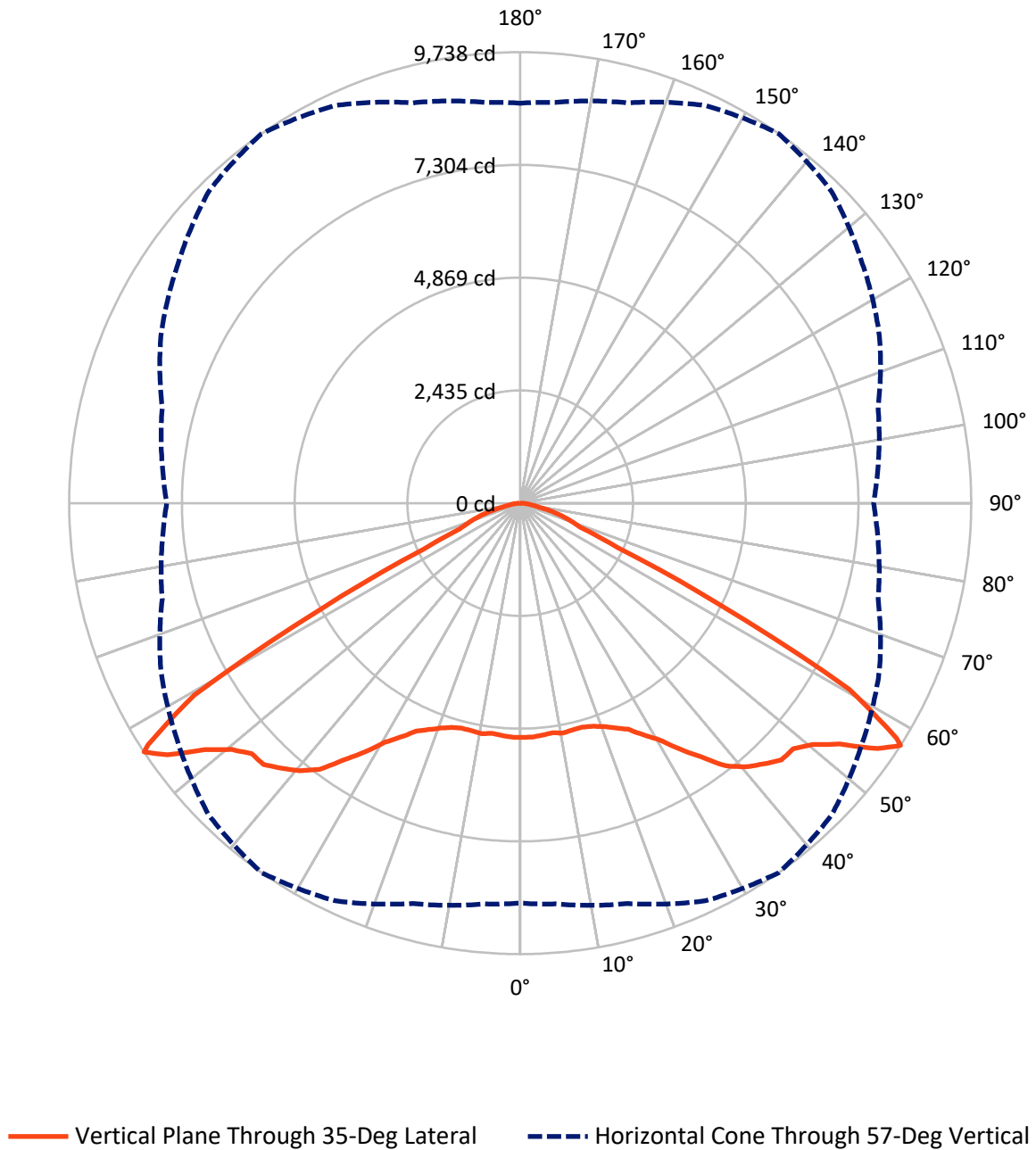


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type V - Short - N/A

REPORT NUMBER: P531680

CATALOG NUMBER: GLAN-SA7A-730-U-5MQ-GRSWH

## Luminous Intensity Polar Plot



REPORT NUMBER: P531680

CATALOG NUMBER: GLAN-SA7A-730-U-5MQ-GRSWH

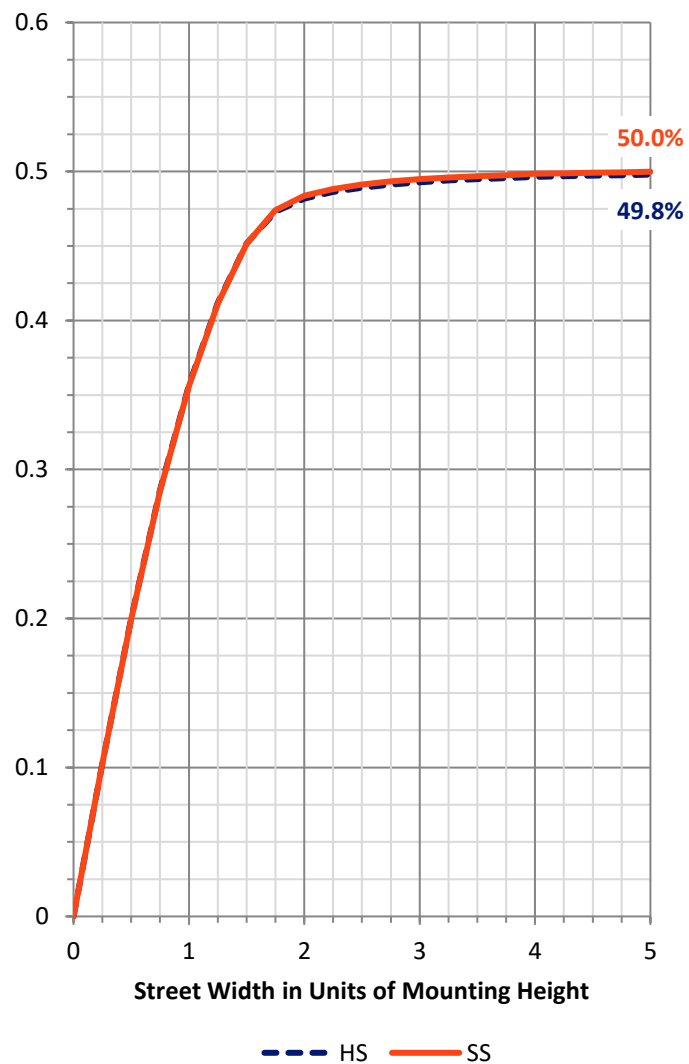
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12802.5  | 0.0    | 12802.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 12802.5  | 0.0    | 12802.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 25605.0  | 0.0    | 25605.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 479.4   | 1.9       |
| 10°-20°   | 1419.9  | 5.5       |
| 20°-30°   | 2479.8  | 9.7       |
| 30°-40°   | 4063.1  | 15.9      |
| 40°-50°   | 5957.6  | 23.3      |
| 50°-60°   | 7504.0  | 29.3      |
| 60°-70°   | 2822.2  | 11.0      |
| 70°-80°   | 750.4   | 2.9       |
| 80°-90°   | 128.7   | 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°    | 25605.0 | 100.0     |
| 0°-180°   | 25605.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P531680

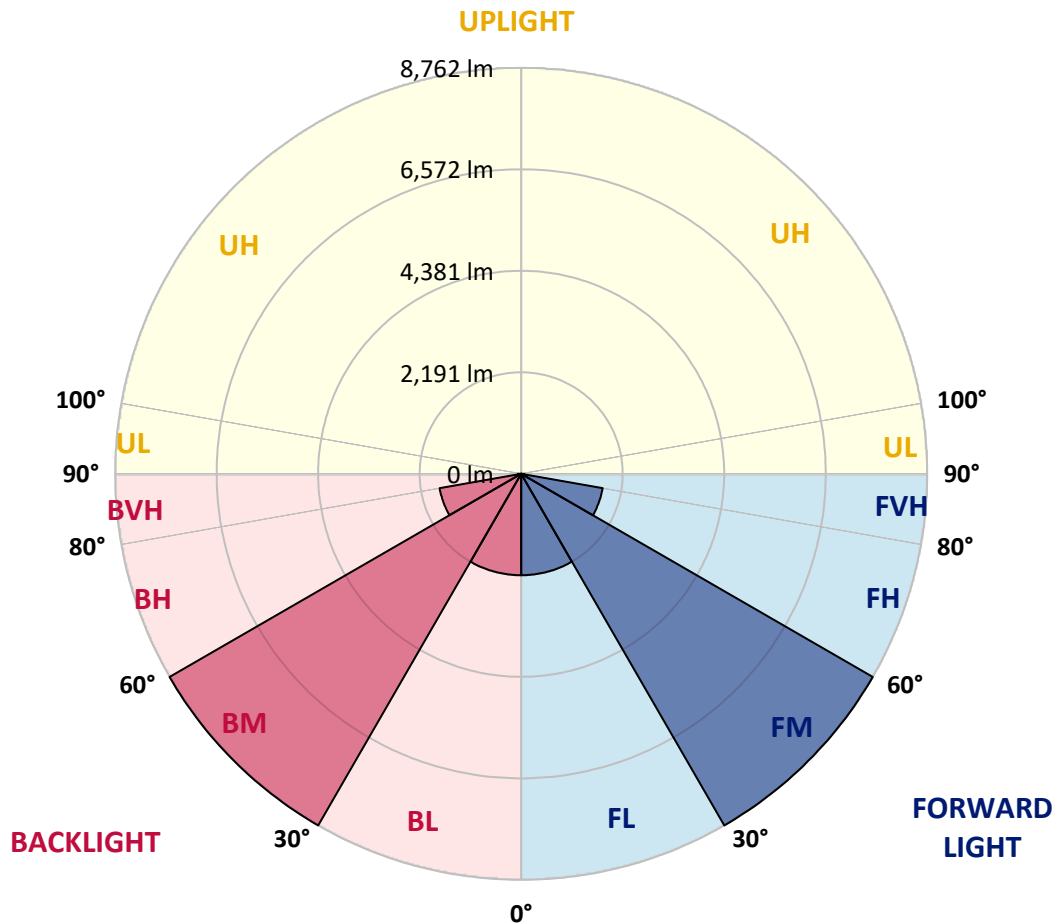
CATALOG NUMBER: GLAN-SA7A-730-U-5MQ-GRSWH

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2189.5 | 8.6       |                         |      |         |
| FM   | (30°-60°)   | 8762.4 | 34.2      |                         |      |         |
| FH   | (60°-80°)   | 1786.3 | 7.0       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 64.3   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 2189.5 | 8.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 8762.4 | 34.2      | B5                      |      |         |
| BH   | (60°-80°)   | 1786.3 | 7.0       | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 64.3   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G1**

Type V Short



REPORT NUMBER: P531680

CATALOG NUMBER: GLAN-SA7A-730-U-5MQ-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5056.8 | 5056.8 | 5056.8 | 5056.8 | 5056.8 | 5056.8 | 5056.8 | 5056.8 | 5056.8 | 5056.8 | 5056.8 |
| 2.5°  | 5031.6 | 5082.0 | 5060.0 | 5047.3 | 5056.8 | 5041.0 | 5015.8 | 5044.2 | 5037.9 | 5012.6 | 5003.2 |
| 5°    | 5018.9 | 5056.8 | 5031.6 | 5056.8 | 5031.6 | 5075.7 | 5063.1 | 5015.8 | 5072.6 | 5018.9 | 5037.9 |
| 7.5°  | 5009.5 | 5022.1 | 5028.4 | 5015.8 | 5006.3 | 5060.0 | 5031.6 | 5009.5 | 4977.9 | 4968.5 | 4984.2 |
| 10°   | 4987.4 | 5018.9 | 4971.6 | 5034.7 | 5047.3 | 5009.5 | 5009.5 | 4968.5 | 4943.2 | 4927.5 | 4981.1 |
| 12.5° | 5044.2 | 4990.6 | 4984.2 | 5015.8 | 5025.3 | 5041.0 | 4996.9 | 4974.8 | 4927.5 | 4933.8 | 4924.3 |
| 15°   | 4977.9 | 5000.0 | 5003.2 | 5009.5 | 5018.9 | 5056.8 | 5015.8 | 4968.5 | 4949.5 | 4883.3 | 4889.6 |
| 17.5° | 5003.2 | 4981.1 | 5003.2 | 5075.7 | 5063.1 | 5091.5 | 5047.3 | 4974.8 | 4930.6 | 4892.8 | 4943.2 |
| 20°   | 5047.3 | 5037.9 | 5047.3 | 5135.7 | 5151.4 | 5176.7 | 5138.8 | 5072.6 | 4987.4 | 4943.2 | 4968.5 |
| 22.5° | 5094.7 | 5088.3 | 5094.7 | 5179.8 | 5271.3 | 5302.9 | 5265.0 | 5110.4 | 5066.3 | 4984.2 | 4955.9 |
| 25°   | 5179.8 | 5186.1 | 5252.4 | 5347.0 | 5407.0 | 5466.9 | 5397.5 | 5287.1 | 5145.1 | 5094.7 | 5034.7 |
| 27.5° | 5369.1 | 5384.9 | 5422.7 | 5561.5 | 5665.6 | 5719.3 | 5621.5 | 5470.0 | 5381.7 | 5277.6 | 5261.8 |
| 30°   | 5602.5 | 5602.5 | 5668.8 | 5788.7 | 5930.6 | 6012.6 | 5892.8 | 5713.0 | 5605.7 | 5548.9 | 5514.2 |
| 32.5° | 5911.7 | 5877.0 | 5902.2 | 6113.6 | 6334.4 | 6403.8 | 6242.9 | 6022.1 | 5851.8 | 5776.0 | 5750.8 |
| 35°   | 6176.7 | 6198.8 | 6255.5 | 6482.7 | 6728.7 | 6889.6 | 6637.2 | 6350.2 | 6176.7 | 6107.3 | 6094.7 |
| 37.5° | 6520.5 | 6558.4 | 6586.8 | 6899.1 | 7195.6 | 7255.5 | 7012.6 | 6782.4 | 6571.0 | 6514.2 | 6482.7 |
| 40°   | 7006.3 | 6981.1 | 6990.6 | 7220.8 | 7489.0 | 7526.8 | 7287.1 | 7123.1 | 6949.5 | 6914.8 | 6914.8 |
| 42.5° | 7407.0 | 7378.6 | 7410.1 | 7495.3 | 7700.3 | 7671.9 | 7539.5 | 7419.6 | 7347.0 | 7309.2 | 7347.0 |
| 45°   | 7649.9 | 7643.6 | 7700.3 | 7763.4 | 7908.5 | 7813.9 | 7709.8 | 7728.7 | 7659.3 | 7596.2 | 7593.1 |
| 47.5° | 7914.9 | 7873.8 | 7943.2 | 8037.9 | 7927.5 | 7883.3 | 7877.0 | 7918.0 | 7895.9 | 7785.5 | 7750.8 |
| 50°   | 8044.2 | 8028.4 | 8138.8 | 8249.2 | 8189.3 | 8088.4 | 8110.4 | 8176.7 | 7892.8 | 7744.5 | 7659.3 |
| 52.5° | 8391.2 | 8394.3 | 8605.7 | 8665.6 | 8640.4 | 8492.1 | 8539.5 | 8359.6 | 8025.3 | 7817.1 | 7826.5 |
| 55°   | 8936.9 | 8914.9 | 9151.4 | 9328.1 | 9356.5 | 9167.2 | 8940.1 | 8687.7 | 8268.2 | 8056.8 | 7993.7 |
| 57°   | 8637.3 | 8687.7 | 8949.6 | 9473.2 | 9738.2 | 9514.2 | 9019.0 | 8558.4 | 8000.0 | 7744.5 | 7630.9 |
| 57.5° | 8236.6 | 8318.6 | 8772.9 | 9299.7 | 9577.3 | 9558.4 | 8921.2 | 8318.6 | 7820.2 | 7422.7 | 7432.2 |
| 60°   | 6034.7 | 6050.5 | 6460.6 | 7296.6 | 8164.1 | 8183.0 | 7407.0 | 6608.9 | 6053.6 | 5621.5 | 5681.4 |
| 62.5° | 3183.0 | 3255.5 | 3419.6 | 4091.5 | 4842.3 | 5025.3 | 4555.2 | 4145.1 | 3665.6 | 3337.6 | 3369.1 |
| 65°   | 1684.5 | 1675.1 | 1753.9 | 1943.2 | 2312.3 | 2406.9 | 2343.9 | 2018.9 | 1851.7 | 1798.1 | 1801.3 |
| 67.5° | 1369.1 | 1384.9 | 1375.4 | 1384.9 | 1410.1 | 1451.1 | 1441.6 | 1454.3 | 1463.7 | 1479.5 | 1476.3 |
| 70°   | 1160.9 | 1160.9 | 1167.2 | 1170.4 | 1170.4 | 1189.3 | 1211.4 | 1252.4 | 1255.5 | 1271.3 | 1277.6 |
| 72.5° | 914.8  | 908.5  | 918.0  | 940.1  | 943.2  | 959.0  | 990.5  | 1015.8 | 1025.2 | 1025.2 | 1006.3 |
| 75°   | 621.5  | 627.8  | 640.4  | 659.3  | 678.2  | 706.6  | 731.9  | 747.6  | 753.9  | 744.5  | 735.0  |
| 77.5° | 350.2  | 356.5  | 365.9  | 394.3  | 416.4  | 441.6  | 470.0  | 485.8  | 501.6  | 504.7  | 485.8  |
| 80°   | 208.2  | 208.2  | 224.0  | 246.1  | 271.3  | 296.5  | 321.8  | 340.7  | 347.0  | 347.0  | 337.5  |
| 82.5° | 126.2  | 129.3  | 142.0  | 164.0  | 186.1  | 201.9  | 224.0  | 239.7  | 252.4  | 249.2  | 242.9  |
| 85°   | 66.2   | 66.2   | 78.9   | 97.8   | 113.6  | 129.3  | 129.3  | 119.9  | 113.6  | 97.8   | 91.5   |
| 87.5° | 22.1   | 18.9   | 25.2   | 25.2   | 22.1   | 25.2   | 25.2   | 28.4   | 28.4   | 28.4   | 28.4   |
| 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)