

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: P534152

Luminaire Tested: **GLAN-SA9C-827-U-5NQ-GRSWH**

Issue Date: 5/27/2021

### Test Information

Test Method: LM-79-08  
Report Number: P534152  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9C-827-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 42201 lumens  
Efficiency: N/A  
Efficacy: 87.7 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

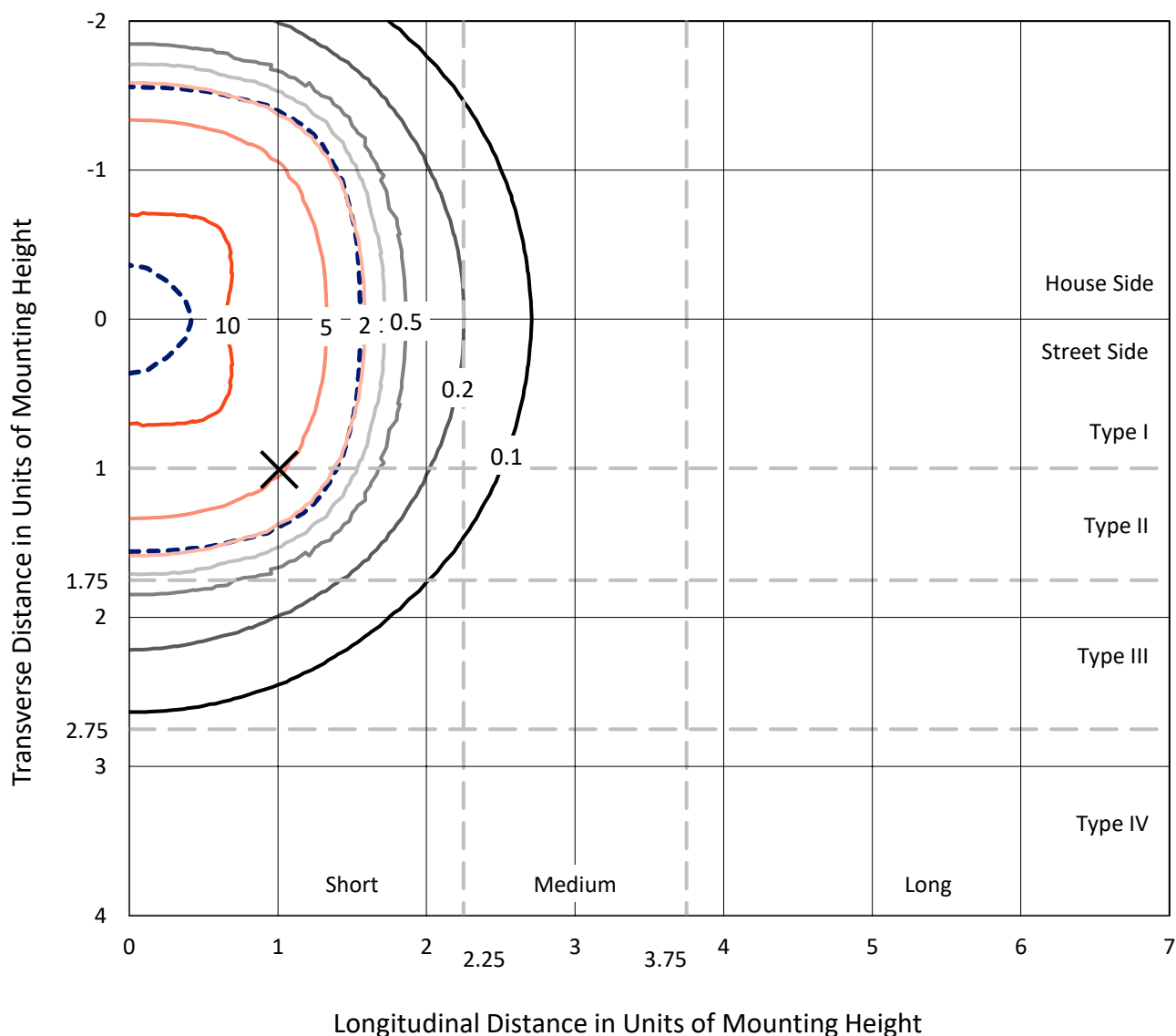
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

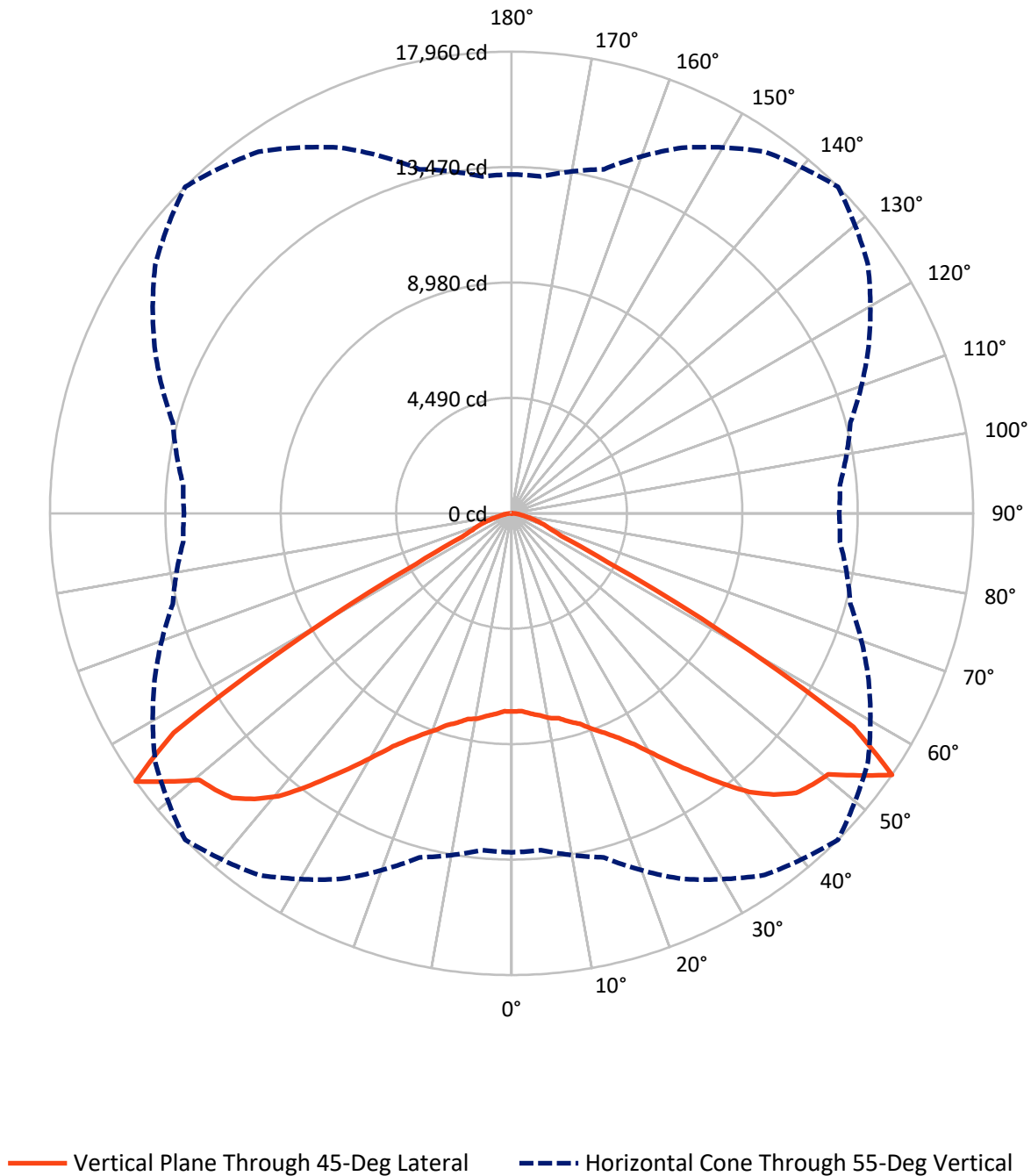
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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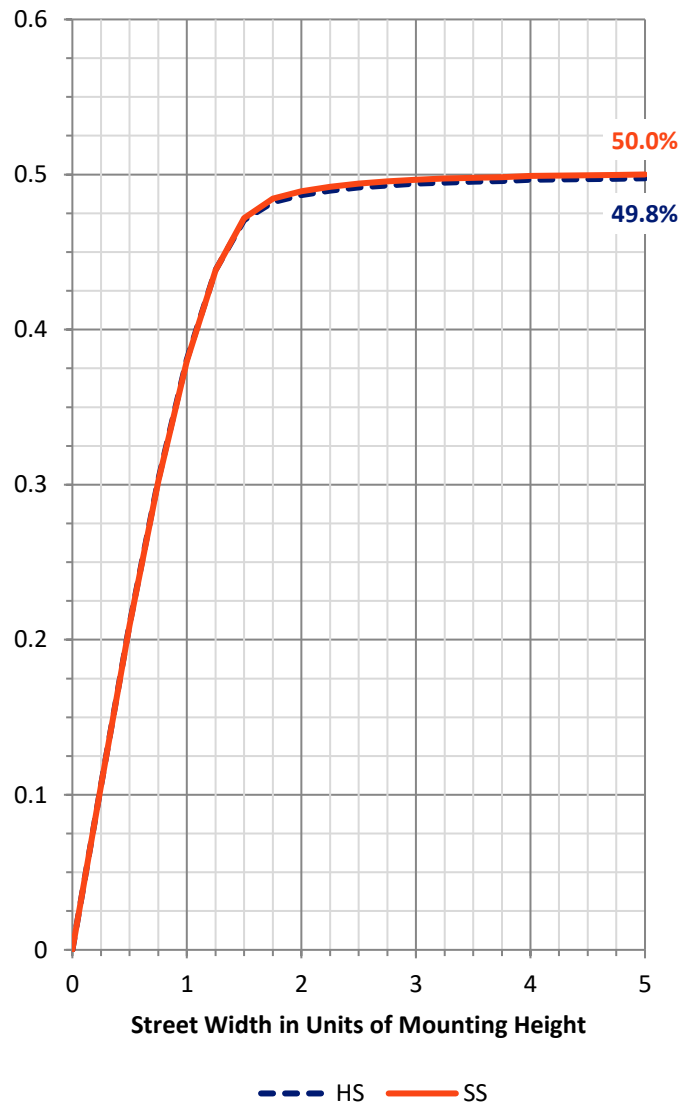
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 21100.5  | 0.0    | 21100.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 21100.5  | 0.0    | 21100.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 42201.0  | 0.0    | 42201.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 752.7   | 1.8       |
| 10°-20°   | 2385.0  | 5.7       |
| 20°-30°   | 4447.3  | 10.5      |
| 30°-40°   | 7446.3  | 17.6      |
| 40°-50°   | 11587.0 | 27.5      |
| 50°-60°   | 12031.0 | 28.5      |
| 60°-70°   | 2551.4  | 6.0       |
| 70°-80°   | 840.3   | 2.0       |
| 80°-90°   | 160.0   | 0.4       |
| 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°    | 42201.0 | 100.0     |
| 0°-180°   | 42201.0 | 100.0     |

**Coefficient of Utilization**



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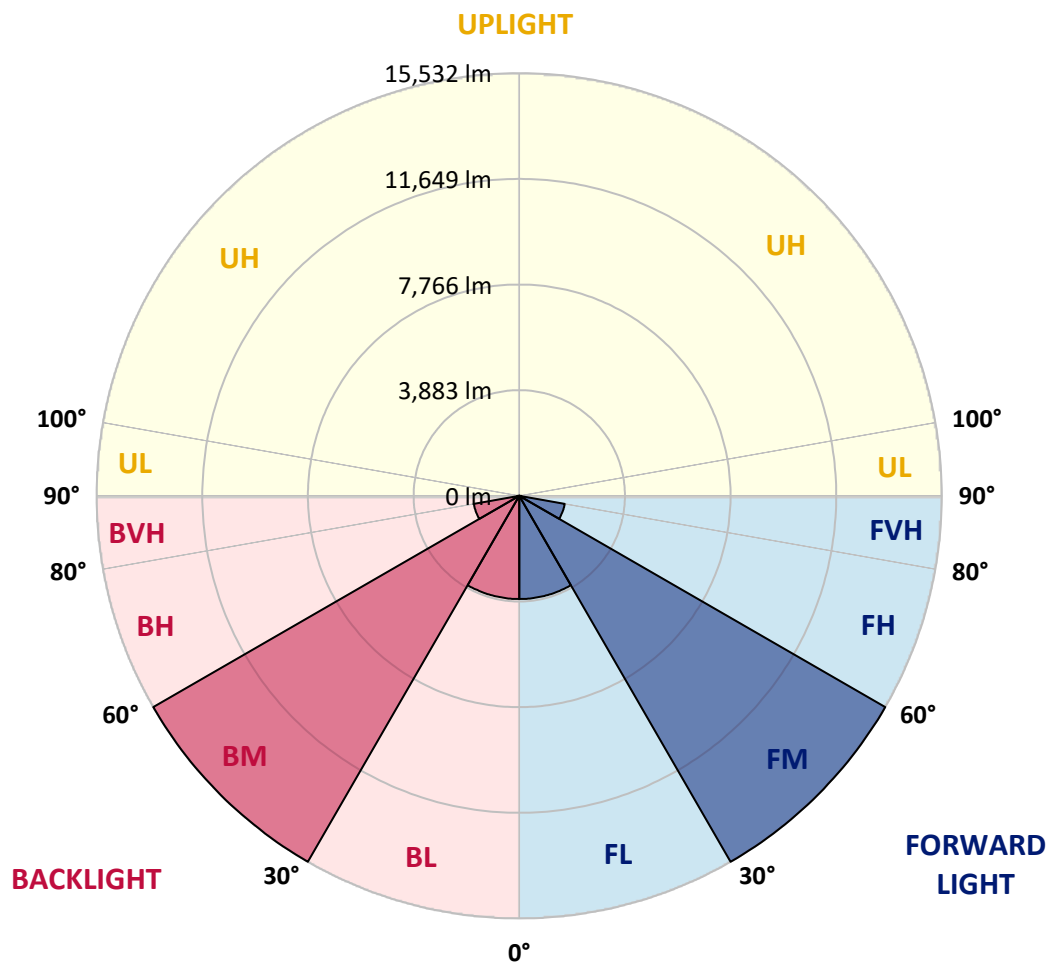
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3792.6  | 9.0       |                         |      |         |
| FM   | (30°-60°)   | 15532.1 | 36.8      |                         |      |         |
| FH   | (60°-80°)   | 1695.8  | 4.0       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 80.0    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 3792.6  | 9.0       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 15532.1 | 36.8      | B5                      |      |         |
| BH   | (60°-80°)   | 1695.8  | 4.0       | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 80.0    | 0.2       |                         |      | 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





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7705.3  | 7705.3  | 7705.3  | 7705.3  | 7705.3  | 7705.3  | 7705.3  | 7705.3  | 7705.3  | 7705.3  | 7705.3  |
| 2.5°  | 7797.1  | 7761.4  | 7700.2  | 7746.1  | 7781.8  | 7705.3  | 7735.9  | 7751.2  | 7741.0  | 7700.2  | 7715.5  |
| 5°    | 7909.3  | 7888.9  | 7837.9  | 7873.6  | 7827.7  | 7827.7  | 7797.1  | 7756.3  | 7817.5  | 7807.3  | 7832.8  |
| 7.5°  | 7909.3  | 7883.8  | 7985.7  | 7919.5  | 7939.8  | 7939.8  | 7888.9  | 7848.1  | 7878.7  | 7832.8  | 7807.3  |
| 10°   | 8067.3  | 8103.0  | 8057.1  | 8072.4  | 8062.2  | 8097.9  | 8021.4  | 7995.9  | 7970.4  | 7955.1  | 7924.5  |
| 12.5° | 8256.0  | 8230.5  | 8245.8  | 8235.6  | 8271.3  | 8179.5  | 8133.6  | 8077.5  | 8123.4  | 8057.1  | 8103.0  |
| 15°   | 8409.0  | 8393.7  | 8409.0  | 8449.8  | 8414.1  | 8409.0  | 8327.4  | 8271.3  | 8199.9  | 8215.2  | 8143.8  |
| 17.5° | 8618.1  | 8602.8  | 8607.9  | 8643.6  | 8638.5  | 8613.0  | 8551.8  | 8444.7  | 8419.2  | 8378.4  | 8332.5  |
| 20°   | 8929.1  | 8903.6  | 8893.4  | 8908.7  | 8934.2  | 8954.6  | 8832.3  | 8791.5  | 8704.8  | 8638.5  | 8562.0  |
| 22.5° | 9194.3  | 9184.1  | 9224.9  | 9158.6  | 9214.7  | 9275.9  | 9158.6  | 9138.2  | 8924.0  | 8888.3  | 8806.8  |
| 25°   | 9561.5  | 9546.2  | 9520.7  | 9617.6  | 9683.9  | 9678.8  | 9566.6  | 9454.4  | 9291.2  | 9250.4  | 9250.4  |
| 27.5° | 9949.0  | 9862.3  | 9994.9  | 10020.4 | 10137.7 | 10173.4 | 10076.5 | 9913.3  | 9760.4  | 9673.7  | 9694.1  |
| 30°   | 10433.5 | 10351.9 | 10382.5 | 10566.1 | 10719.0 | 10851.6 | 10606.9 | 10367.2 | 10153.0 | 10000.0 | 9974.5  |
| 32.5° | 10917.9 | 10836.3 | 10928.1 | 11106.6 | 11412.6 | 11611.5 | 11371.8 | 10953.6 | 10703.8 | 10479.4 | 10525.3 |
| 35°   | 11310.6 | 11371.8 | 11519.7 | 11789.9 | 12106.1 | 12427.4 | 12044.9 | 11723.6 | 11366.7 | 11116.8 | 11152.5 |
| 37.5° | 11942.9 | 12131.6 | 12248.9 | 12560.0 | 13008.7 | 13340.2 | 12942.4 | 12524.3 | 12141.8 | 11815.4 | 11703.2 |
| 40°   | 12769.0 | 12896.5 | 13029.1 | 13396.3 | 13926.6 | 14258.1 | 13880.7 | 13335.1 | 12957.7 | 12621.1 | 12605.8 |
| 42.5° | 13676.7 | 13799.1 | 13936.8 | 14385.6 | 14701.7 | 14951.6 | 14604.8 | 14314.2 | 13896.0 | 13630.8 | 13615.5 |
| 45°   | 14732.3 | 14645.6 | 14798.6 | 15094.4 | 15359.6 | 15522.7 | 15298.4 | 15155.6 | 14854.7 | 14609.9 | 14584.4 |
| 47.5° | 15436.0 | 15359.6 | 15634.9 | 15900.1 | 15940.9 | 15762.4 | 15808.3 | 15940.9 | 15624.7 | 15221.9 | 15349.4 |
| 50°   | 15844.0 | 15844.0 | 16027.6 | 16272.4 | 16195.9 | 15966.4 | 16328.4 | 16338.6 | 16022.5 | 15665.5 | 15665.5 |
| 52.5° | 15135.2 | 15293.3 | 15813.4 | 16614.0 | 16869.0 | 16935.3 | 16853.7 | 16506.9 | 15680.8 | 14951.6 | 14915.9 |
| 55°   | 13187.2 | 13151.5 | 13855.2 | 15691.0 | 17175.0 | 17960.3 | 16920.0 | 15323.9 | 13646.1 | 12825.1 | 12743.5 |
| 57.5° | 8577.3  | 8618.1  | 9668.6  | 11540.1 | 14217.3 | 15680.8 | 13926.6 | 11682.8 | 9668.6  | 8536.5  | 8643.6  |
| 60°   | 3860.3  | 3998.0  | 4635.4  | 6032.7  | 8332.5  | 9525.8  | 8352.9  | 6338.6  | 4864.9  | 4222.3  | 4278.4  |
| 62.5° | 2218.3  | 2243.8  | 2269.3  | 2692.5  | 3549.2  | 4196.8  | 3686.9  | 2845.5  | 2508.9  | 2396.7  | 2396.7  |
| 65°   | 1871.5  | 1856.2  | 1861.3  | 1897.0  | 1988.8  | 2121.4  | 2065.3  | 1988.8  | 1999.0  | 1988.8  | 1973.5  |
| 67.5° | 1591.0  | 1611.4  | 1596.1  | 1621.6  | 1626.7  | 1647.1  | 1682.8  | 1713.4  | 1718.5  | 1728.7  | 1718.5  |
| 70°   | 1305.5  | 1310.6  | 1320.8  | 1341.2  | 1346.3  | 1361.6  | 1412.5  | 1438.0  | 1453.3  | 1453.3  | 1473.7  |
| 72.5° | 999.5   | 994.4   | 1004.6  | 1025.0  | 1050.5  | 1055.6  | 1101.5  | 1137.2  | 1157.6  | 1132.1  | 1137.2  |
| 75°   | 657.8   | 662.9   | 678.2   | 693.5   | 729.2   | 764.9   | 780.2   | 815.9   | 821.0   | 831.2   | 805.7   |
| 77.5° | 392.7   | 402.9   | 418.2   | 448.8   | 479.3   | 509.9   | 545.6   | 571.1   | 581.3   | 571.1   | 540.5   |
| 80°   | 255.0   | 255.0   | 275.4   | 300.9   | 336.6   | 362.1   | 382.5   | 402.9   | 418.2   | 402.9   | 392.7   |
| 82.5° | 158.1   | 158.1   | 183.6   | 214.2   | 239.7   | 255.0   | 285.6   | 311.1   | 326.4   | 316.2   | 300.9   |
| 85°   | 81.6    | 86.7    | 107.1   | 132.6   | 153.0   | 163.2   | 158.1   | 142.8   | 127.5   | 122.4   | 112.2   |
| 87.5° | 25.5    | 25.5    | 30.6    | 30.6    | 25.5    | 25.5    | 30.6    | 25.5    | 30.6    | 30.6    | 30.6    |
| 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)