

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: P316732

Luminaire Tested: **GAN-SA8C-727-U-5NQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316732  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8C-727-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48899 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

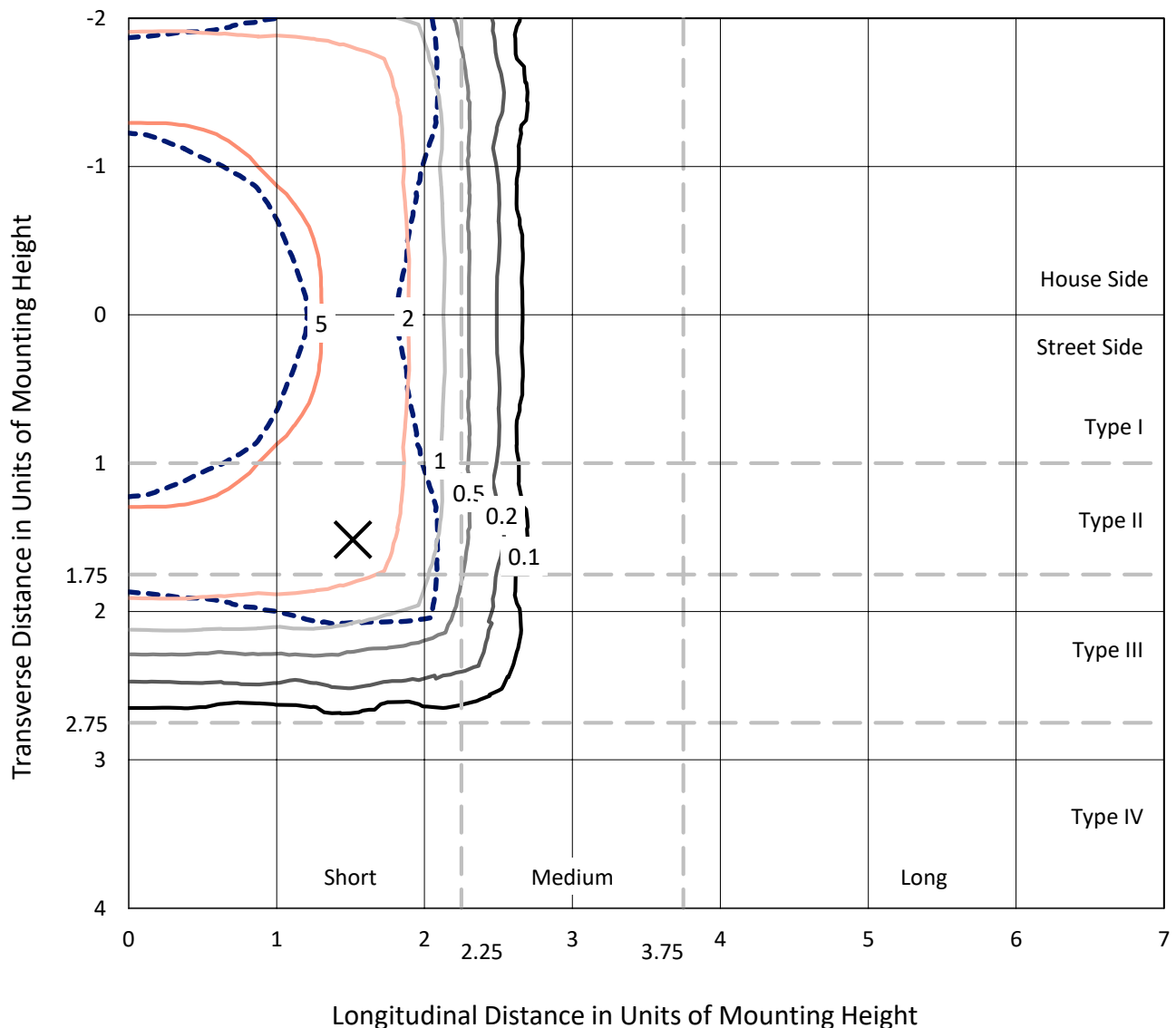
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

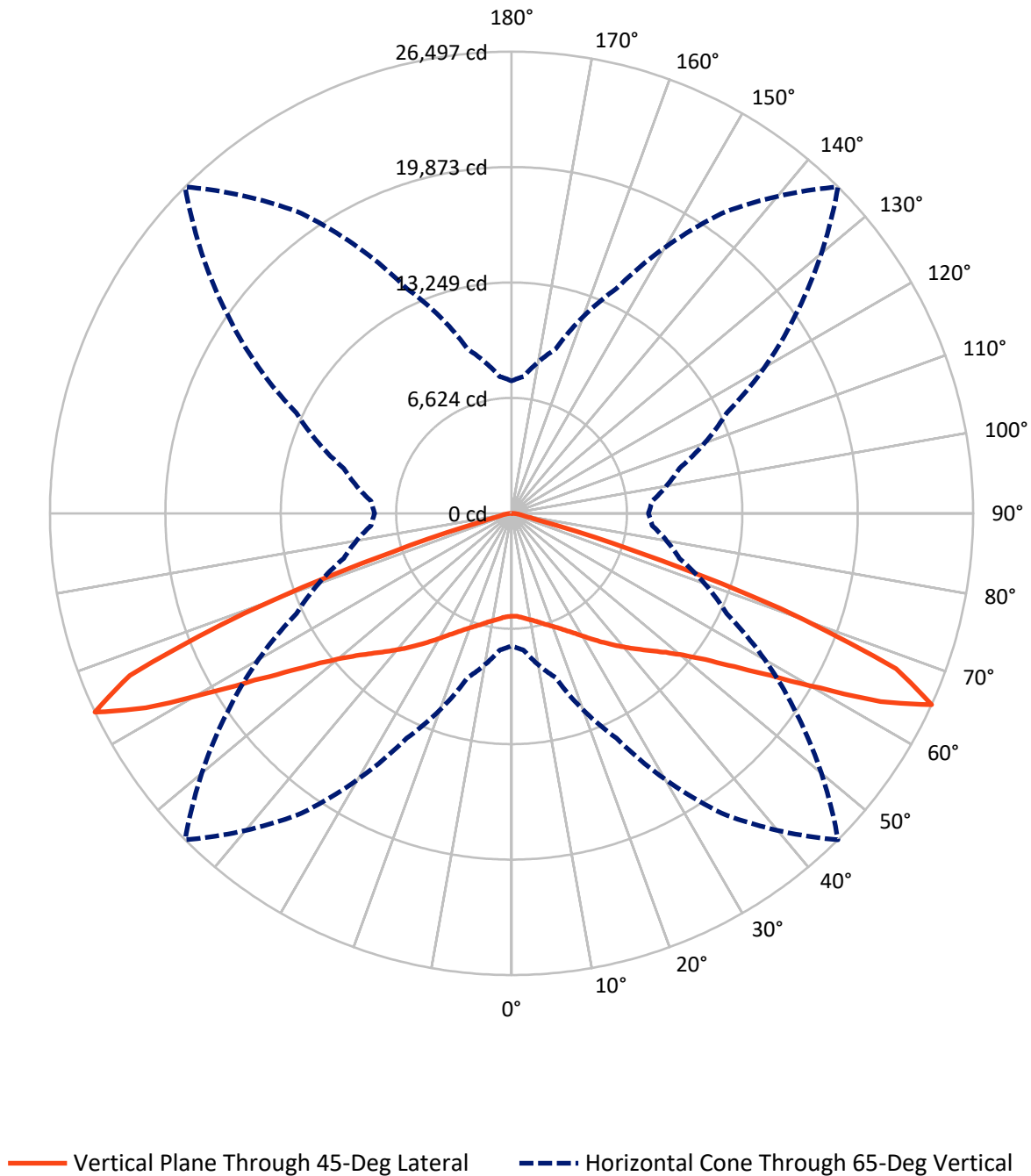
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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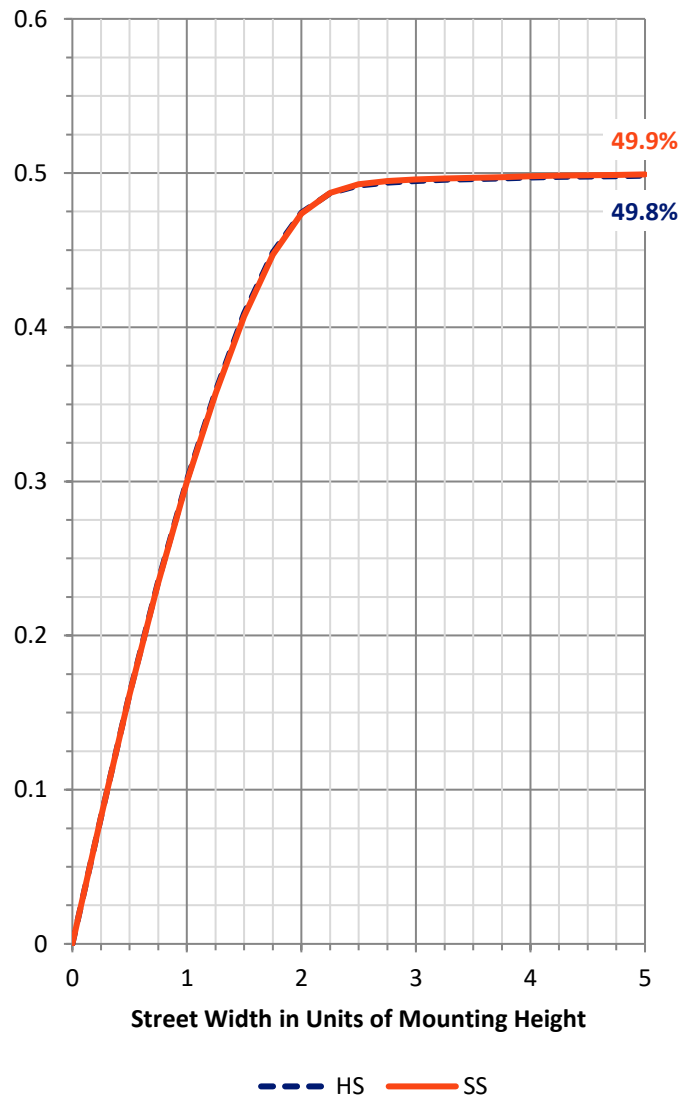
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 24449.5  | 0.0    | 24449.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 24449.5  | 0.0    | 24449.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 48899.0  | 0.0    | 48899.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 579.4   | 1.2       |
| 10°-20°   | 1862.3  | 3.8       |
| 20°-30°   | 3494.0  | 7.1       |
| 30°-40°   | 5778.3  | 11.8      |
| 40°-50°   | 8949.9  | 18.3      |
| 50°-60°   | 13726.6 | 28.1      |
| 60°-70°   | 12808.4 | 26.2      |
| 70°-80°   | 1490.7  | 3.0       |
| 80°-90°   | 209.5   | 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°    | 48899.0 | 100.0     |
| 0°-180°   | 48899.0 | 100.0     |

**Coefficient of Utilization**



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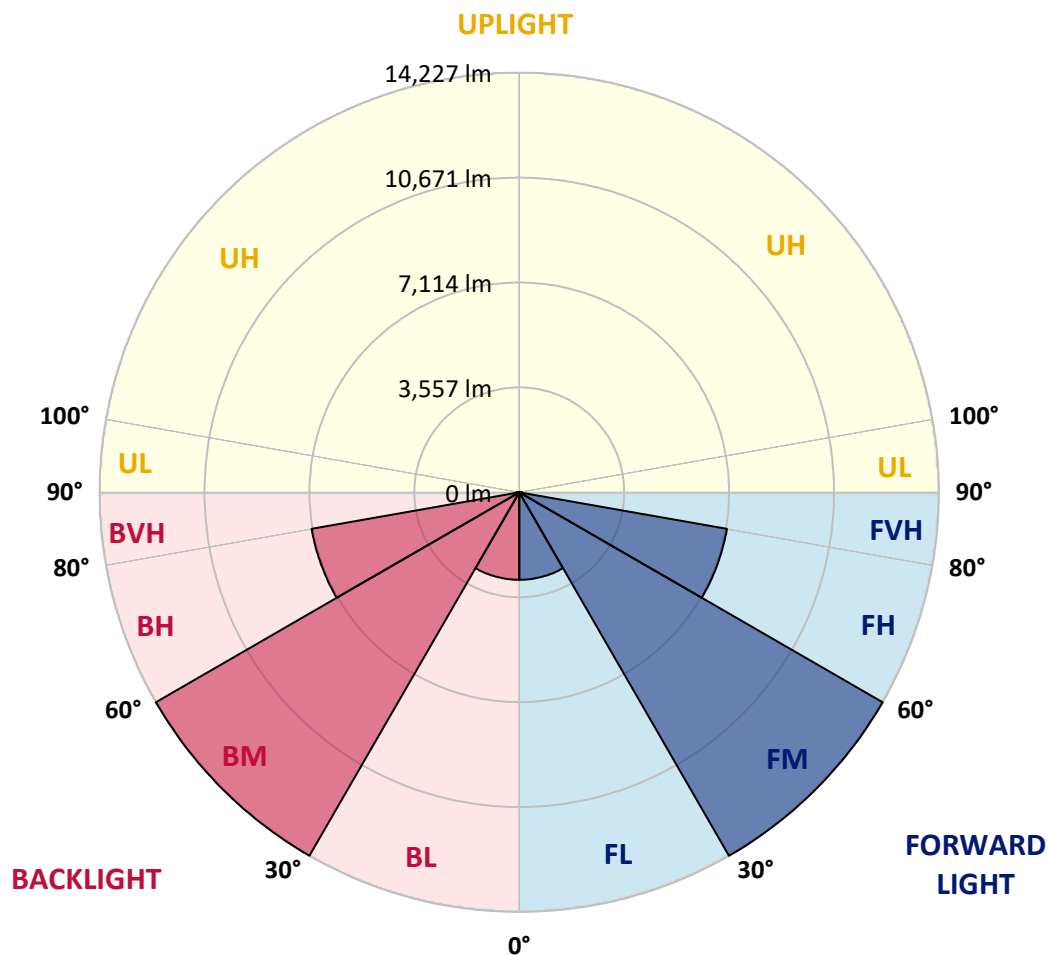
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2967.8  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 14227.4 | 29.1      |                         |      |         |
| FH   | (60°-80°)   | 7149.6  | 14.6      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 104.7   | 0.2       |                         |      | G2/225  |
| BL   | (0°-30°)    | 2967.8  | 6.1       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 14227.4 | 29.1      | B5                      |      |         |
| BH   | (60°-80°)   | 7149.6  | 14.6      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 104.7   | 0.2       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5905.2  | 5905.2  | 5905.2  | 5905.2  | 5905.2  | 5905.2  | 5905.2  | 5905.2  | 5905.2  | 5905.2  | 5905.2  |
| 2.5°  | 5924.7  | 5921.4  | 5924.7  | 5926.3  | 5916.5  | 5921.4  | 5919.8  | 5927.9  | 5931.1  | 5927.9  | 5927.9  |
| 5°    | 5992.8  | 5988.0  | 5994.4  | 6002.6  | 5989.6  | 5992.8  | 5988.0  | 5997.7  | 6000.9  | 5994.4  | 5999.3  |
| 7.5°  | 6087.0  | 6088.6  | 6095.1  | 6109.7  | 6101.6  | 6108.1  | 6098.3  | 6100.0  | 6098.3  | 6088.6  | 6090.2  |
| 10°   | 6189.2  | 6190.9  | 6202.2  | 6221.7  | 6224.9  | 6224.9  | 6218.4  | 6213.6  | 6207.1  | 6200.6  | 6202.2  |
| 12.5° | 6312.6  | 6320.7  | 6328.8  | 6353.2  | 6353.2  | 6366.2  | 6362.9  | 6349.9  | 6338.6  | 6328.8  | 6328.8  |
| 15°   | 6479.8  | 6478.2  | 6487.9  | 6512.2  | 6523.6  | 6544.7  | 6544.7  | 6526.9  | 6512.2  | 6502.5  | 6499.3  |
| 17.5° | 6655.1  | 6660.0  | 6666.5  | 6695.7  | 6713.5  | 6737.9  | 6741.1  | 6726.5  | 6716.8  | 6703.8  | 6695.7  |
| 20°   | 6859.6  | 6867.7  | 6893.7  | 6905.1  | 6921.3  | 6944.0  | 6952.1  | 6948.9  | 6939.1  | 6932.7  | 6934.3  |
| 22.5° | 7098.2  | 7119.3  | 7135.6  | 7151.8  | 7171.3  | 7187.5  | 7195.6  | 7207.0  | 7197.2  | 7192.4  | 7189.1  |
| 25°   | 7387.1  | 7401.8  | 7434.2  | 7463.4  | 7476.4  | 7481.3  | 7491.0  | 7507.3  | 7505.6  | 7494.3  | 7494.3  |
| 27.5° | 7715.0  | 7742.6  | 7783.2  | 7825.4  | 7825.4  | 7809.2  | 7841.6  | 7869.2  | 7859.5  | 7844.9  | 7825.4  |
| 30°   | 8112.7  | 8138.7  | 8185.8  | 8244.2  | 8215.0  | 8203.6  | 8247.4  | 8297.8  | 8283.2  | 8258.8  | 8255.6  |
| 32.5° | 8541.2  | 8565.6  | 8627.3  | 8690.6  | 8653.2  | 8637.0  | 8684.1  | 8757.1  | 8731.2  | 8682.5  | 8653.2  |
| 35°   | 9005.5  | 9029.8  | 9117.5  | 9193.8  | 9130.5  | 9102.9  | 9141.8  | 9221.4  | 9175.9  | 9085.0  | 9062.3  |
| 37.5° | 9510.3  | 9523.3  | 9636.9  | 9714.8  | 9671.0  | 9597.9  | 9646.6  | 9705.1  | 9666.1  | 9555.7  | 9511.9  |
| 40°   | 10034.6 | 10081.6 | 10213.1 | 10304.0 | 10227.7 | 10112.5 | 10193.6 | 10274.8 | 10216.4 | 10075.2 | 10000.5 |
| 42.5° | 10646.5 | 10682.2 | 10857.5 | 10938.7 | 10815.3 | 10653.0 | 10763.4 | 10873.8 | 10815.3 | 10679.0 | 10614.1 |
| 45°   | 11282.8 | 11338.0 | 11547.4 | 11628.5 | 11450.0 | 11243.9 | 11378.6 | 11571.7 | 11566.9 | 11370.5 | 11302.3 |
| 47.5° | 11975.9 | 12031.1 | 12281.1 | 12388.2 | 12195.0 | 11919.1 | 12109.0 | 12381.7 | 12362.2 | 12146.3 | 12091.2 |
| 50°   | 12776.1 | 12834.6 | 13146.2 | 13281.0 | 13100.8 | 12779.4 | 13065.1 | 13305.3 | 13269.6 | 13003.4 | 13008.3 |
| 52.5° | 13780.9 | 13777.7 | 14165.6 | 14399.3 | 14214.3 | 13930.2 | 14193.2 | 14426.9 | 14279.2 | 13910.8 | 13899.4 |
| 55°   | 14660.7 | 14714.2 | 15194.7 | 15637.8 | 15626.5 | 15517.7 | 15623.2 | 15633.0 | 15210.9 | 14720.7 | 14660.7 |
| 57.5° | 15238.5 | 15340.8 | 16017.7 | 16819.5 | 17420.1 | 17564.6 | 17360.0 | 16740.0 | 15751.5 | 14967.5 | 14871.7 |
| 60°   | 14883.0 | 15038.9 | 16102.1 | 17736.6 | 19505.9 | 20354.8 | 19200.7 | 17277.3 | 15331.1 | 14238.6 | 14108.8 |
| 62.5° | 12484.0 | 12746.9 | 14303.6 | 17293.5 | 21301.2 | 23783.0 | 20535.0 | 16415.3 | 13659.2 | 12154.5 | 11932.1 |
| 65°   | 7603.0  | 7880.6  | 9757.0  | 14233.8 | 21010.6 | 26497.0 | 19926.3 | 13625.1 | 9969.6  | 8098.1  | 7857.9  |
| 67.5° | 2533.8  | 2615.0  | 3720.4  | 7867.6  | 16512.7 | 23807.4 | 16540.3 | 8156.5  | 4338.8  | 2876.3  | 2791.9  |
| 70°   | 991.8   | 999.9   | 1180.1  | 2280.6  | 7797.8  | 16352.0 | 8604.5  | 2321.2  | 1233.6  | 975.5   | 996.6   |
| 72.5° | 728.8   | 732.1   | 782.4   | 952.8   | 2032.2  | 7203.7  | 2105.3  | 957.7   | 761.3   | 683.4   | 683.4   |
| 75°   | 586.0   | 586.0   | 621.7   | 694.7   | 910.6   | 1652.4  | 923.6   | 686.6   | 595.7   | 545.4   | 538.9   |
| 77.5° | 462.6   | 472.3   | 499.9   | 547.0   | 616.8   | 795.4   | 639.5   | 543.8   | 480.5   | 433.4   | 423.7   |
| 80°   | 344.1   | 353.9   | 399.3   | 422.0   | 443.1   | 551.9   | 472.3   | 425.3   | 379.8   | 324.6   | 314.9   |
| 82.5° | 225.6   | 235.4   | 292.2   | 305.2   | 300.3   | 360.3   | 318.1   | 313.3   | 279.2   | 209.4   | 199.7   |
| 85°   | 147.7   | 151.0   | 194.8   | 202.9   | 186.7   | 163.9   | 202.9   | 214.3   | 194.8   | 136.3   | 131.5   |
| 87.5° | 69.8    | 69.8    | 99.0    | 92.5    | 84.4    | 68.2    | 92.5    | 108.8   | 110.4   | 66.6    | 64.9    |
| 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)