

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: P316263

Luminaire Tested: **GAN-SA9D-760-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316263  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9D-760-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 73062 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

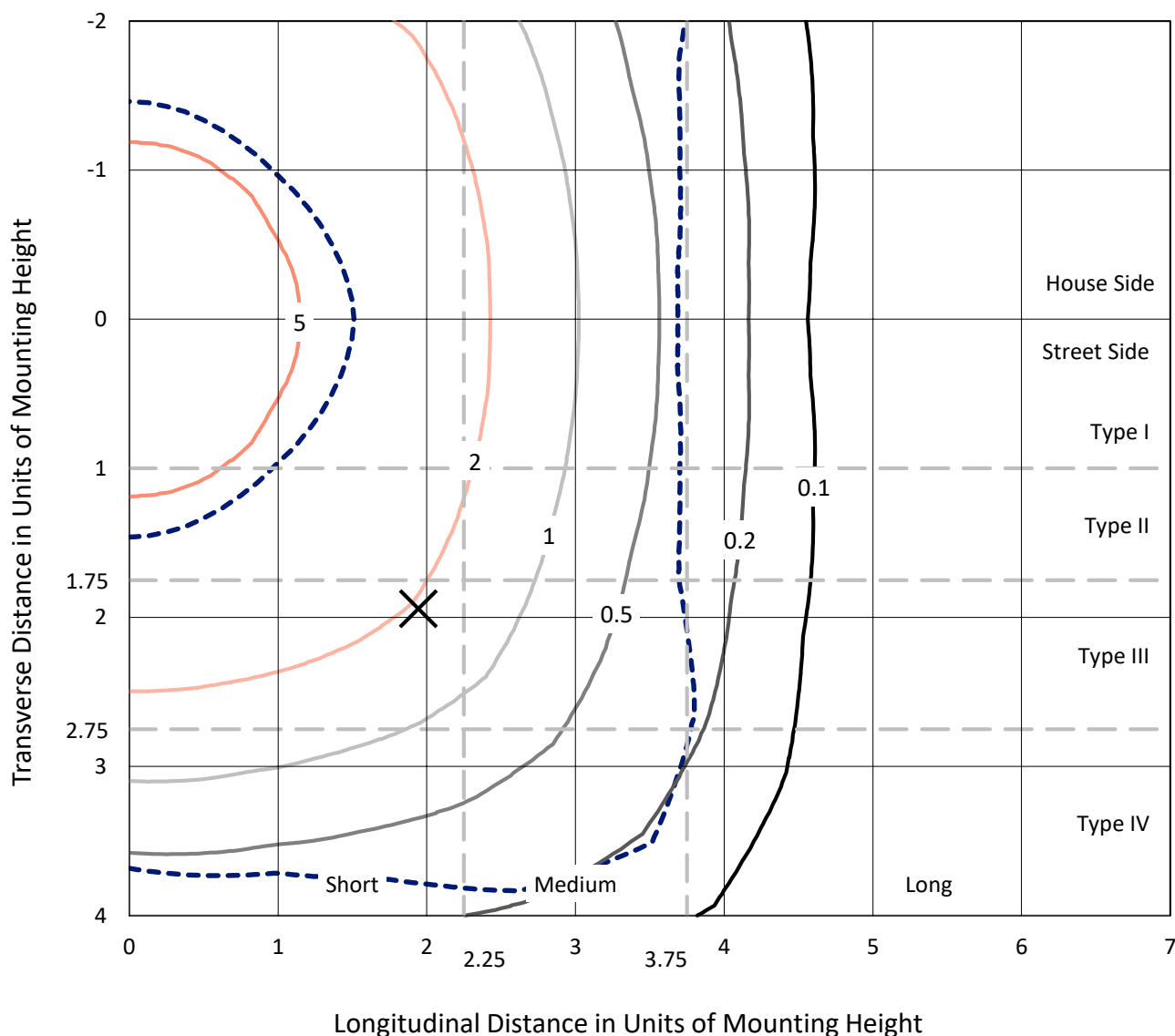
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

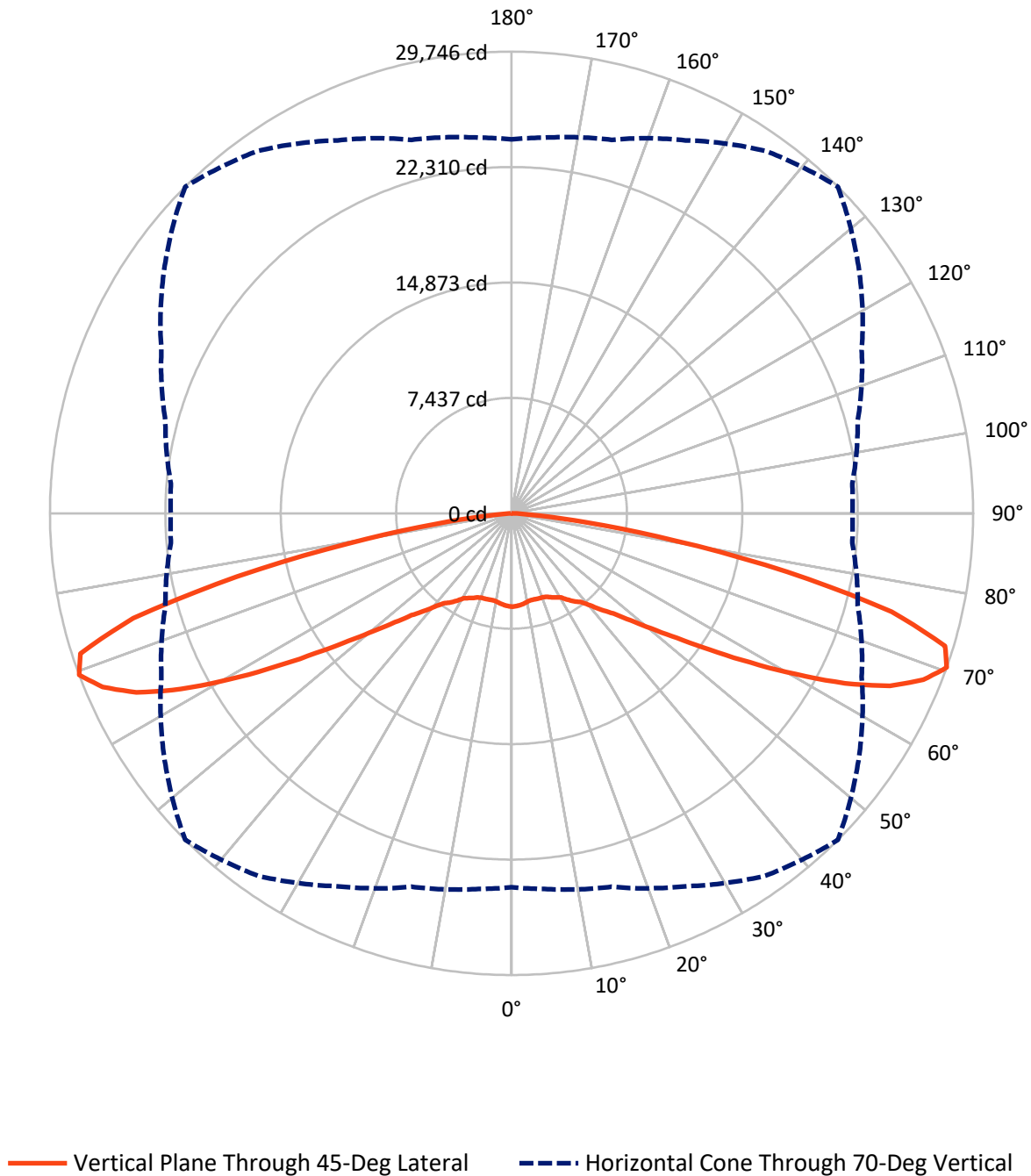
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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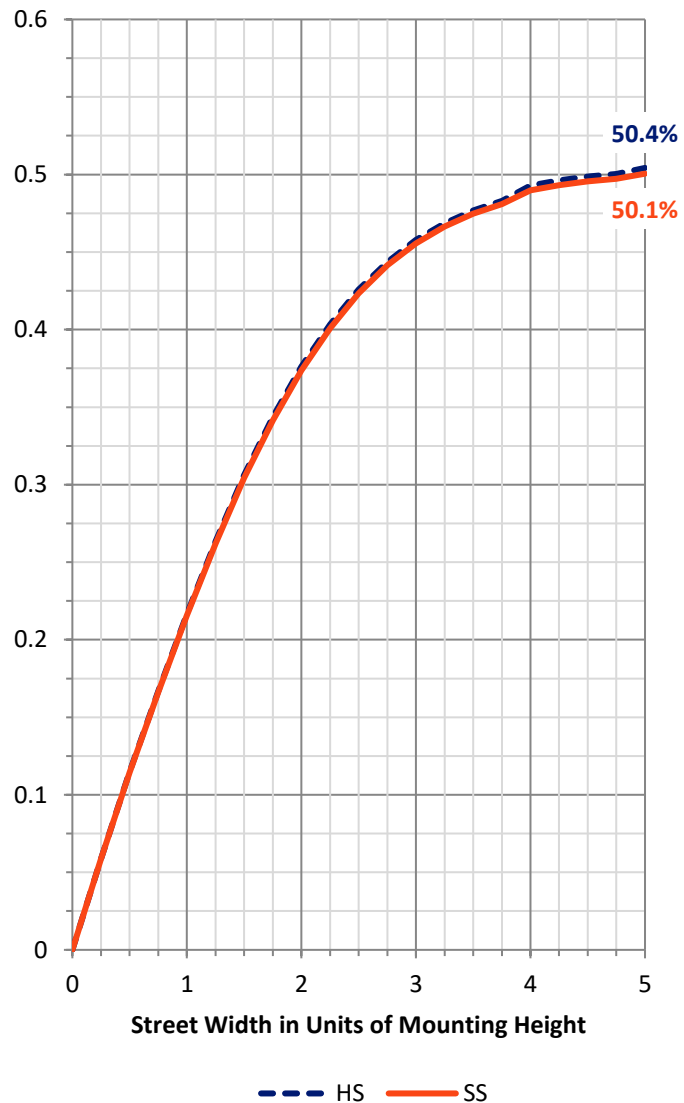
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 36531.0  | 0.0    | 36531.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 36531.0  | 0.0    | 36531.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 73062.0  | 0.0    | 73062.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 561.2   | 0.8       |
| 10°-20°   | 1639.3  | 2.2       |
| 20°-30°   | 2795.0  | 3.8       |
| 30°-40°   | 4367.3  | 6.0       |
| 40°-50°   | 7401.5  | 10.1      |
| 50°-60°   | 13497.2 | 18.5      |
| 60°-70°   | 23236.4 | 31.8      |
| 70°-80°   | 18213.5 | 24.9      |
| 80°-90°   | 1350.5  | 1.8       |
| 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°    | 73062.0 | 100.0     |
| 0°-180°   | 73062.0 | 100.0     |

**Coefficient of Utilization**



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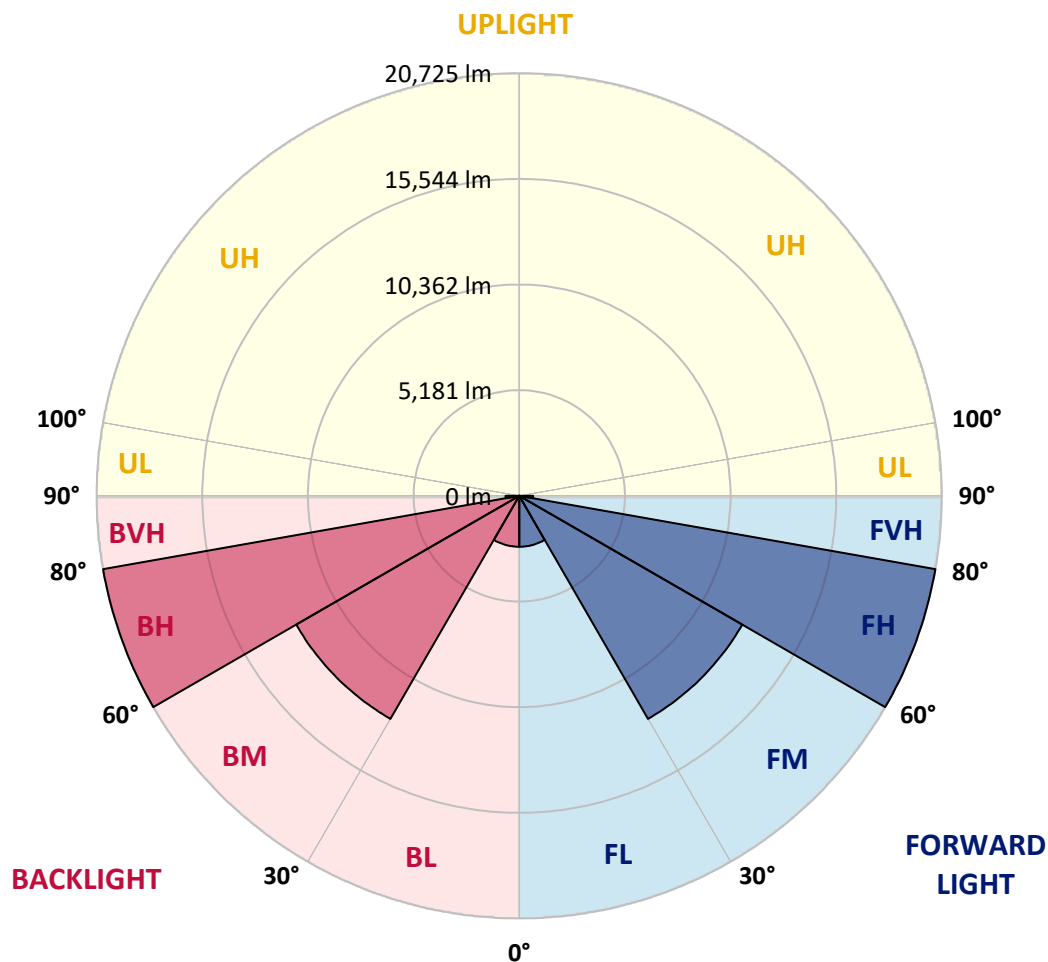
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 2497.8  | 3.4       |                         |      |        |
| FM   | (30°-60°)   | 12633.0 | 17.3      |                         |      |        |
| FH   | (60°-80°)   | 20725.0 | 28.4      |                         |      | G5     |
| FVH  | (80°-90°)   | 675.3   | 0.9       |                         |      | G4/750 |
| BL   | (0°-30°)    | 2497.8  | 3.4       | B3/2500                 |      |        |
| BM   | (30°-60°)   | 12633.0 | 17.3      | B5                      |      |        |
| BH   | (60°-80°)   | 20725.0 | 28.4      | B5                      |      | G5     |
| BVH  | (80°-90°)   | 675.3   | 0.9       |                         |      | G4/750 |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6013.0  | 6013.0  | 6013.0  | 6013.0  | 6013.0  | 6013.0  | 6013.0  | 6013.0  | 6013.0  | 6013.0  | 6013.0  |
| 2.5°  | 5986.4  | 5993.7  | 5986.4  | 5991.3  | 5979.2  | 5984.0  | 5984.0  | 5984.0  | 5981.6  | 5984.0  | 5979.2  |
| 5°    | 5933.3  | 5938.1  | 5928.4  | 5933.3  | 5926.0  | 5933.3  | 5935.7  | 5933.3  | 5928.4  | 5930.8  | 5921.2  |
| 7.5°  | 5853.5  | 5858.3  | 5851.1  | 5858.3  | 5848.7  | 5860.8  | 5858.3  | 5851.1  | 5843.8  | 5843.8  | 5834.2  |
| 10°   | 5810.0  | 5812.4  | 5793.1  | 5785.8  | 5764.1  | 5768.9  | 5776.2  | 5783.4  | 5790.7  | 5805.2  | 5802.8  |
| 12.5° | 5812.4  | 5812.4  | 5783.4  | 5752.0  | 5720.6  | 5727.8  | 5739.9  | 5766.5  | 5795.5  | 5822.1  | 5824.5  |
| 15°   | 5836.6  | 5834.2  | 5790.7  | 5739.9  | 5718.2  | 5739.9  | 5747.2  | 5764.1  | 5810.0  | 5855.9  | 5858.3  |
| 17.5° | 5853.5  | 5853.5  | 5785.8  | 5727.8  | 5725.4  | 5759.2  | 5756.8  | 5764.1  | 5814.8  | 5882.5  | 5884.9  |
| 20°   | 5884.9  | 5884.9  | 5797.9  | 5735.1  | 5735.1  | 5771.3  | 5773.7  | 5785.8  | 5836.6  | 5911.5  | 5923.6  |
| 22.5° | 5955.0  | 5957.4  | 5865.6  | 5814.8  | 5819.7  | 5841.4  | 5848.7  | 5868.0  | 5913.9  | 5996.1  | 6010.6  |
| 25°   | 6054.1  | 6058.9  | 5964.7  | 5935.7  | 5952.6  | 5993.7  | 5988.8  | 6003.3  | 6054.1  | 6133.9  | 6148.4  |
| 27.5° | 6191.9  | 6179.8  | 6092.8  | 6080.7  | 6097.6  | 6126.6  | 6124.2  | 6126.6  | 6167.7  | 6240.2  | 6257.1  |
| 30°   | 6370.7  | 6365.9  | 6303.0  | 6310.3  | 6303.0  | 6293.4  | 6295.8  | 6315.1  | 6336.9  | 6394.9  | 6411.8  |
| 32.5° | 6544.7  | 6549.5  | 6510.9  | 6547.1  | 6600.3  | 6636.5  | 6581.0  | 6527.8  | 6503.6  | 6535.0  | 6549.5  |
| 35°   | 6858.9  | 6871.0  | 6810.6  | 6786.4  | 6858.9  | 6965.2  | 6808.1  | 6721.1  | 6769.5  | 6810.6  | 6822.6  |
| 37.5° | 7393.0  | 7400.3  | 7298.8  | 7202.1  | 7148.9  | 7250.4  | 7093.3  | 7100.6  | 7269.8  | 7347.1  | 7344.7  |
| 40°   | 8002.0  | 8004.5  | 7936.8  | 7852.2  | 7760.4  | 7784.5  | 7721.7  | 7741.0  | 7852.2  | 7922.3  | 7941.6  |
| 42.5° | 8727.1  | 8719.8  | 8613.5  | 8492.7  | 8466.1  | 8490.2  | 8383.9  | 8369.4  | 8497.5  | 8623.2  | 8625.6  |
| 45°   | 9667.2  | 9650.3  | 9512.5  | 9379.6  | 9251.5  | 9198.4  | 9171.8  | 9241.9  | 9418.3  | 9534.3  | 9536.7  |
| 47.5° | 10679.9 | 10633.9 | 10561.4 | 10455.1 | 10343.9 | 10290.8 | 10247.3 | 10281.1 | 10409.2 | 10455.1 | 10459.9 |
| 50°   | 11721.5 | 11731.2 | 11745.7 | 11704.6 | 11663.5 | 11646.6 | 11533.0 | 11467.7 | 11506.4 | 11421.8 | 11409.7 |
| 52.5° | 12956.5 | 12975.8 | 13116.0 | 13234.4 | 13304.5 | 13340.8 | 13125.7 | 12900.9 | 12775.2 | 12610.9 | 12562.6 |
| 55°   | 14413.8 | 14445.2 | 14650.7 | 14979.4 | 15317.7 | 15496.6 | 15107.5 | 14686.9 | 14297.8 | 13990.9 | 13891.8 |
| 57.5° | 16037.9 | 16093.5 | 16376.3 | 17007.1 | 17700.7 | 18123.6 | 17466.3 | 16702.5 | 15950.9 | 15508.6 | 15431.3 |
| 60°   | 17942.4 | 17995.5 | 18387.1 | 19290.9 | 20414.8 | 21050.4 | 20054.7 | 18805.2 | 17869.9 | 17446.9 | 17304.3 |
| 62.5° | 20209.3 | 20214.2 | 20695.1 | 21751.3 | 23235.2 | 24119.7 | 22771.1 | 21101.1 | 20136.8 | 19626.9 | 19489.1 |
| 65°   | 22647.9 | 22660.0 | 23157.8 | 24298.6 | 25833.2 | 26795.1 | 25272.5 | 23532.4 | 22353.0 | 21601.4 | 21495.1 |
| 67.5° | 24371.1 | 24421.8 | 24946.3 | 26319.0 | 27754.6 | 28622.2 | 27046.5 | 25079.2 | 23716.1 | 22819.5 | 22730.1 |
| 70°   | 24095.6 | 24293.7 | 24910.0 | 26512.4 | 28508.6 | 29746.0 | 27334.1 | 24895.5 | 23097.4 | 22038.9 | 21963.9 |
| 72.5° | 21014.1 | 21393.6 | 22215.3 | 24317.9 | 27510.5 | 29214.3 | 25765.6 | 22297.4 | 20262.5 | 19361.0 | 19225.7 |
| 75°   | 14309.9 | 14926.2 | 16166.0 | 19199.1 | 23503.4 | 25294.3 | 21690.8 | 17778.0 | 15863.9 | 14616.8 | 14525.0 |
| 77.5° | 6380.4  | 6520.5  | 8091.5  | 11583.7 | 16219.2 | 18164.7 | 15760.0 | 11629.7 | 8729.5  | 6962.8  | 6590.6  |
| 80°   | 1778.8  | 1800.5  | 2402.3  | 4314.0  | 8118.1  | 10672.6 | 8715.0  | 4531.5  | 2547.3  | 1795.7  | 1691.8  |
| 82.5° | 565.5   | 613.9   | 749.2   | 1119.0  | 2728.6  | 4869.9  | 2801.1  | 1208.4  | 860.4   | 686.4   | 618.7   |
| 85°   | 275.5   | 273.1   | 379.4   | 454.4   | 696.0   | 1077.9  | 742.0   | 560.7   | 490.6   | 326.3   | 294.9   |
| 87.5° | 116.0   | 118.4   | 176.4   | 159.5   | 203.0   | 174.0   | 239.3   | 251.3   | 263.4   | 145.0   | 125.7   |
| 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)