

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: P533690

Luminaire Tested: **GLAN-SA9A-827-U-RW-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533690  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9A-827-U-RW-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26705 lumens  
Efficiency: N/A  
Efficacy: 97.5 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): 274  
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

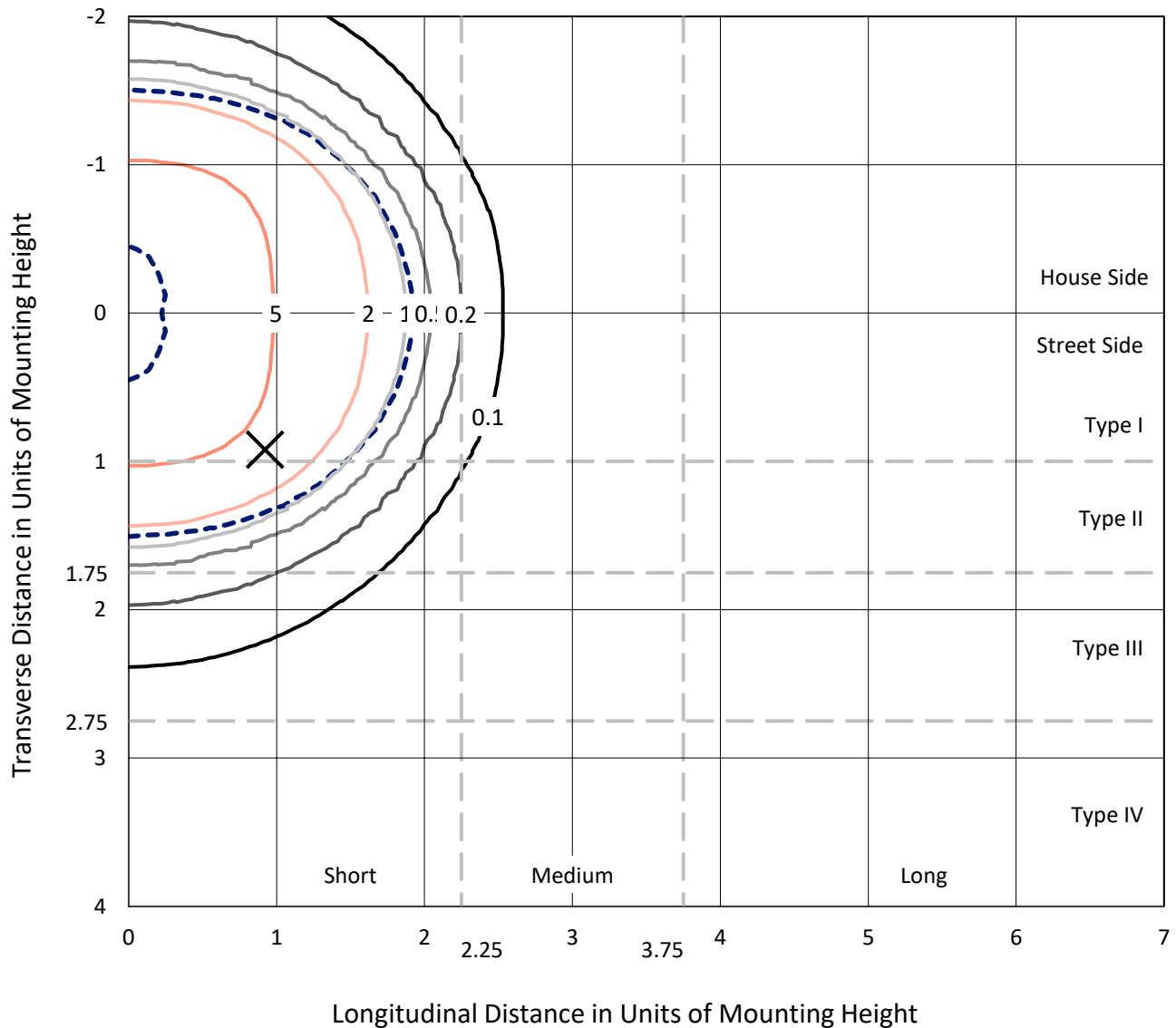


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## Iso-Footcandle Lines of Horizontal Illumination

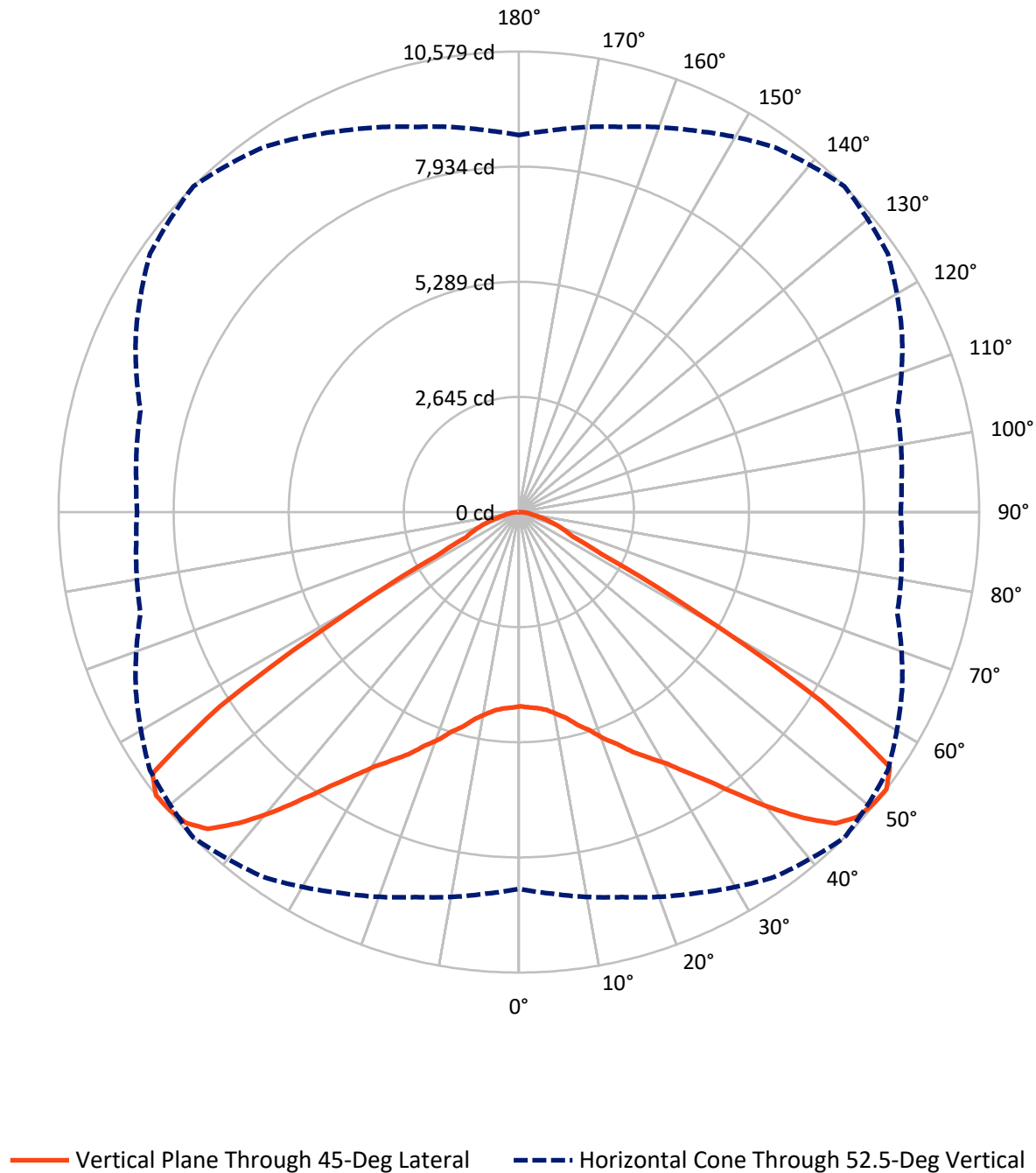
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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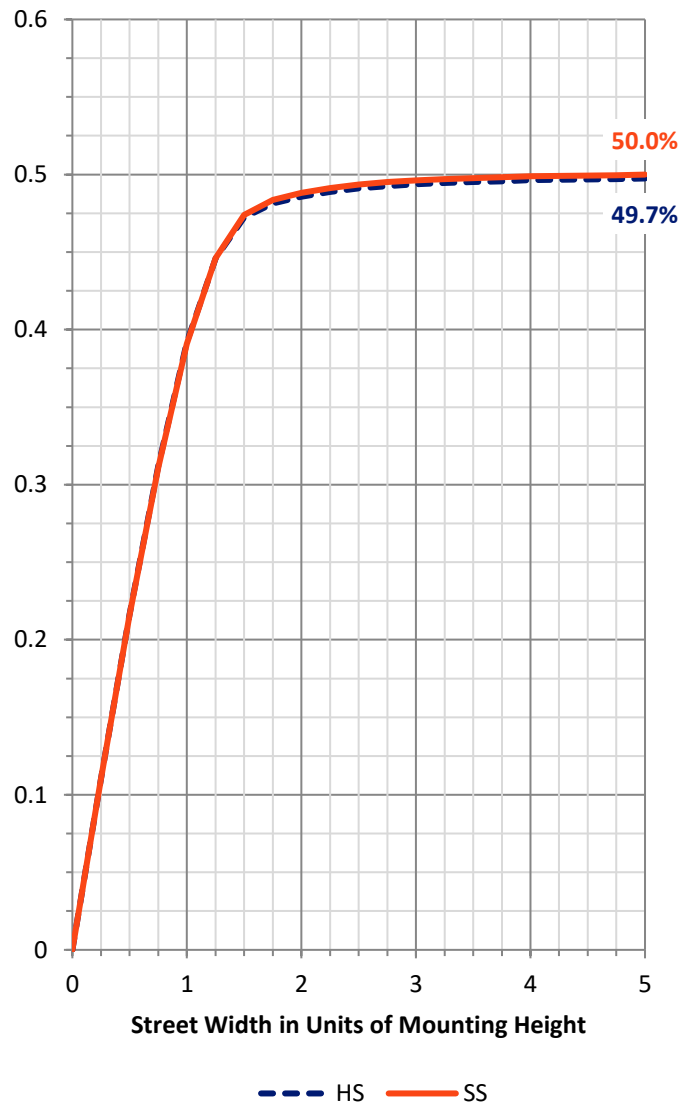
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13352.5  | 0.0    | 13352.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 13352.5  | 0.0    | 13352.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 26705.0  | 0.0    | 26705.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 438.6   | 1.6       |
| 10°-20°   | 1441.2  | 5.4       |
| 20°-30°   | 2743.8  | 10.3      |
| 30°-40°   | 4711.2  | 17.6      |
| 40°-50°   | 7241.3  | 27.1      |
| 50°-60°   | 7353.4  | 27.5      |
| 60°-70°   | 2049.3  | 7.7       |
| 70°-80°   | 604.5   | 2.3       |
| 80°-90°   | 121.8   | 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°    | 26705.0 | 100.0     |
| 0°-180°   | 26705.0 | 100.0     |

**Coefficient of Utilization**



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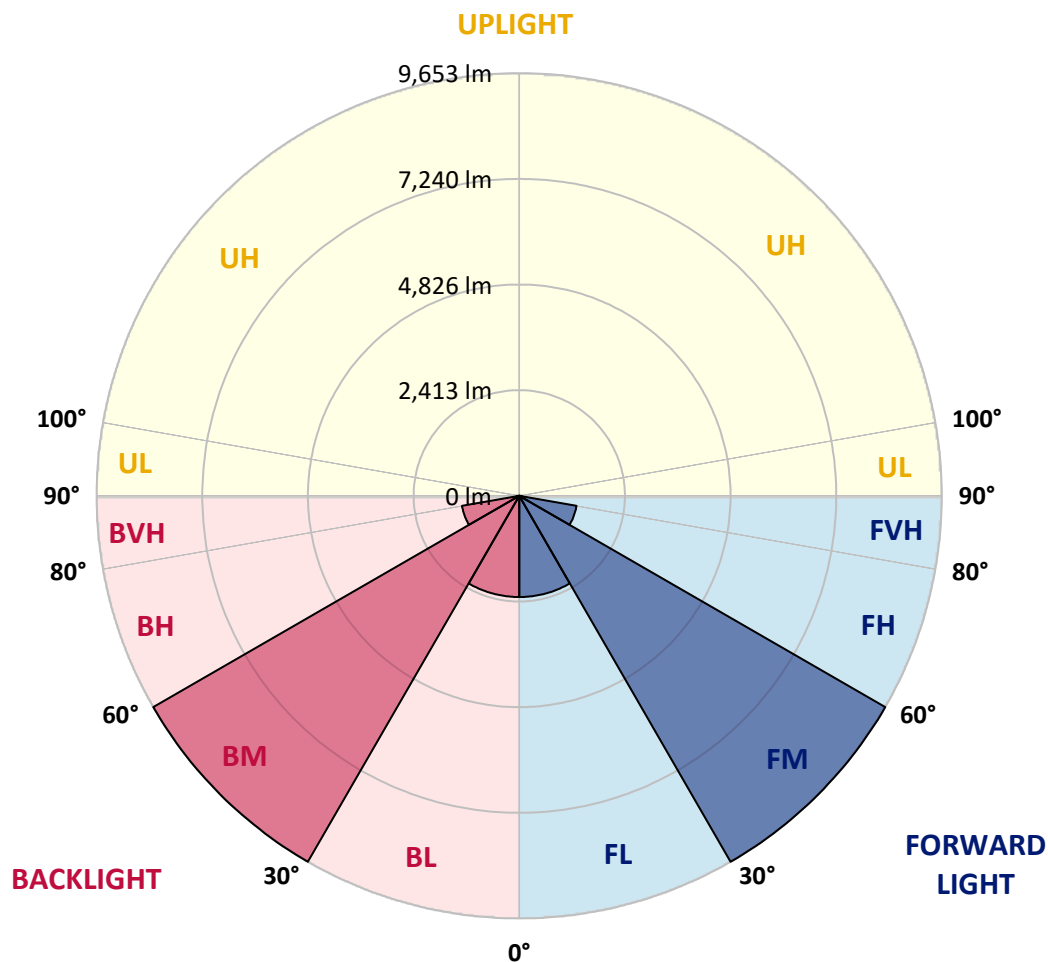
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2311.8 | 8.7       |                         |      |         |
| FM   | (30°-60°)   | 9653.0 | 36.1      |                         |      |         |
| FH   | (60°-80°)   | 1326.9 | 5.0       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 60.9   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 2311.8 | 8.7       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 9653.0 | 36.1      | B5                      |      |         |
| BH   | (60°-80°)   | 1326.9 | 5.0       | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 60.9   | 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°    | 4464.1 | 4464.1 | 4464.1 | 4464.1  | 4464.1  | 4464.1  | 4464.1  | 4464.1 | 4464.1 | 4464.1 | 4464.1 |
| 2.5°  | 4474.0 | 4427.6 | 4444.2 | 4454.2  | 4497.2  | 4493.9  | 4484.0  | 4497.2 | 4510.5 | 4513.8 | 4507.2 |
| 5°    | 4470.7 | 4437.6 | 4450.8 | 4460.8  | 4503.9  | 4527.1  | 4520.4  | 4576.8 | 4616.5 | 4606.6 | 4656.3 |
| 7.5°  | 4444.2 | 4464.1 | 4447.5 | 4497.2  | 4533.7  | 4590.0  | 4649.7  | 4702.7 | 4752.4 | 4808.8 | 4818.7 |
| 10°   | 4503.9 | 4503.9 | 4533.7 | 4573.5  | 4669.6  | 4712.7  | 4798.8  | 4875.0 | 4971.1 | 5037.4 | 5010.9 |
| 12.5° | 4566.8 | 4576.8 | 4576.8 | 4679.5  | 4759.0  | 4855.2  | 4934.7  | 5037.4 | 5173.3 | 5252.8 | 5292.6 |
| 15°   | 4629.8 | 4636.4 | 4669.6 | 4808.8  | 4928.1  | 5080.5  | 5153.4  | 5246.2 | 5322.4 | 5471.6 | 5474.9 |
| 17.5° | 4686.1 | 4722.6 | 4822.0 | 4977.8  | 5126.9  | 5272.7  | 5388.7  | 5484.8 | 5551.1 | 5610.8 | 5597.5 |
| 20°   | 4898.2 | 4924.8 | 5027.5 | 5183.3  | 5405.3  | 5547.8  | 5587.6  | 5604.1 | 5647.2 | 5766.5 | 5730.1 |
| 22.5° | 5103.7 | 5113.7 | 5209.8 | 5448.4  | 5604.1  | 5793.0  | 5836.1  | 5826.2 | 5842.8 | 5872.6 | 5925.6 |
| 25°   | 5315.8 | 5332.4 | 5465.0 | 5667.1  | 5885.8  | 6111.2  | 6147.7  | 6071.4 | 6048.2 | 6081.4 | 6084.7 |
| 27.5° | 5587.6 | 5590.9 | 5759.9 | 5935.6  | 6184.1  | 6396.2  | 6452.6  | 6392.9 | 6283.5 | 6310.0 | 6353.1 |
| 30°   | 5932.2 | 5909.0 | 6078.1 | 6329.9  | 6591.7  | 6711.1  | 6807.2  | 6777.3 | 6658.0 | 6634.8 | 6598.4 |
| 32.5° | 6329.9 | 6336.6 | 6489.0 | 6764.1  | 6936.4  | 7135.3  | 7238.0  | 7188.3 | 7112.1 | 7072.3 | 7095.5 |
| 35°   | 6890.0 | 6919.8 | 7022.6 | 7251.3  | 7529.6  | 7629.1  | 7791.4  | 7685.4 | 7486.6 | 7536.3 | 7579.3 |
| 37.5° | 7350.7 | 7436.8 | 7629.1 | 7900.8  | 8066.5  | 8248.8  | 8308.4  | 8165.9 | 8020.1 | 7960.5 | 8103.0 |
| 40°   | 8056.6 | 8030.1 | 8242.2 | 8513.9  | 8759.2  | 8941.4  | 8865.2  | 8722.7 | 8361.5 | 8364.8 | 8404.6 |
| 42.5° | 8663.1 | 8676.3 | 8838.7 | 9163.5  | 9498.2  | 9610.9  | 9369.0  | 9021.0 | 8620.0 | 8576.9 | 8663.1 |
| 45°   | 9173.4 | 9226.5 | 9319.2 | 9753.4  | 10081.5 | 10204.1 | 9756.7  | 9345.8 | 8808.9 | 8629.9 | 8772.4 |
| 47.5° | 9355.7 | 9441.9 | 9644.0 | 10041.7 | 10366.5 | 10465.9 | 10108.0 | 9518.1 | 8984.5 | 8692.9 | 8769.1 |
| 50°   | 9382.2 | 9352.4 | 9683.8 | 10048.4 | 10333.4 | 10548.8 | 10233.9 | 9644.0 | 8941.4 | 8789.0 | 8765.8 |
| 52.5° | 8656.4 | 8802.2 | 9156.9 | 9657.3  | 10233.9 | 10578.6 | 10346.6 | 9713.6 | 9001.1 | 8828.8 | 8772.4 |
| 55°   | 7006.0 | 6833.7 | 7479.9 | 8321.7  | 9382.2  | 10340.0 | 10306.9 | 9750.1 | 9037.6 | 8895.0 | 8818.8 |
| 57.5° | 3910.6 | 3960.3 | 4324.9 | 5239.6  | 6608.3  | 8199.1  | 9163.5  | 9365.6 | 9021.0 | 8938.1 | 8977.9 |
| 60°   | 1809.5 | 1826.1 | 1981.8 | 2409.4  | 3257.8  | 4649.7  | 5919.0  | 7208.2 | 7801.4 | 7920.7 | 7920.7 |
| 62.5° | 1348.8 | 1342.2 | 1382.0 | 1458.2  | 1637.2  | 2137.6  | 2853.4  | 3877.5 | 4692.8 | 5262.8 | 5411.9 |
| 65°   | 1219.6 | 1216.3 | 1236.2 | 1262.7  | 1275.9  | 1345.5  | 1504.6  | 1819.4 | 2084.6 | 2237.0 | 2210.5 |
| 67.5° | 1067.1 | 1063.8 | 1070.5 | 1087.0  | 1110.2  | 1146.7  | 1186.4  | 1252.7 | 1345.5 | 1338.9 | 1322.3 |
| 70°   | 861.7  | 861.7  | 871.6  | 884.9   | 911.4   | 954.5   | 1000.9  | 1047.3 | 1126.8 | 1143.4 | 1140.1 |
| 72.5° | 636.3  | 626.4  | 646.2  | 672.8   | 699.3   | 752.3   | 802.0   | 845.1  | 901.4  | 918.0  | 911.4  |
| 75°   | 404.3  | 410.9  | 424.2  | 454.0   | 500.4   | 536.9   | 589.9   | 626.4  | 662.8  | 676.1  | 679.4  |
| 77.5° | 225.4  | 232.0  | 255.2  | 291.6   | 338.0   | 377.8   | 424.2   | 454.0  | 477.2  | 480.5  | 483.9  |
| 80°   | 135.9  | 139.2  | 162.4  | 195.5   | 235.3   | 278.4   | 314.8   | 344.7  | 364.6  | 354.6  | 351.3  |
| 82.5° | 82.9   | 86.2   | 106.1  | 135.9   | 169.0   | 202.2   | 241.9   | 268.4  | 288.3  | 275.1  | 261.8  |
| 85°   | 43.1   | 46.4   | 63.0   | 82.9    | 109.4   | 125.9   | 125.9   | 112.7  | 109.4  | 102.7  | 99.4   |
| 87.5° | 13.3   | 13.3   | 16.6   | 19.9    | 16.6    | 19.9    | 23.2    | 26.5   | 26.5   | 29.8   | 26.5   |
| 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)