

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: P533606

Luminaire Tested: **GLAN-SA9A-740-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533606  
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-SA9A-740-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 615mA 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: 37342 lumens  
Efficiency: N/A  
Efficacy: 136.3 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



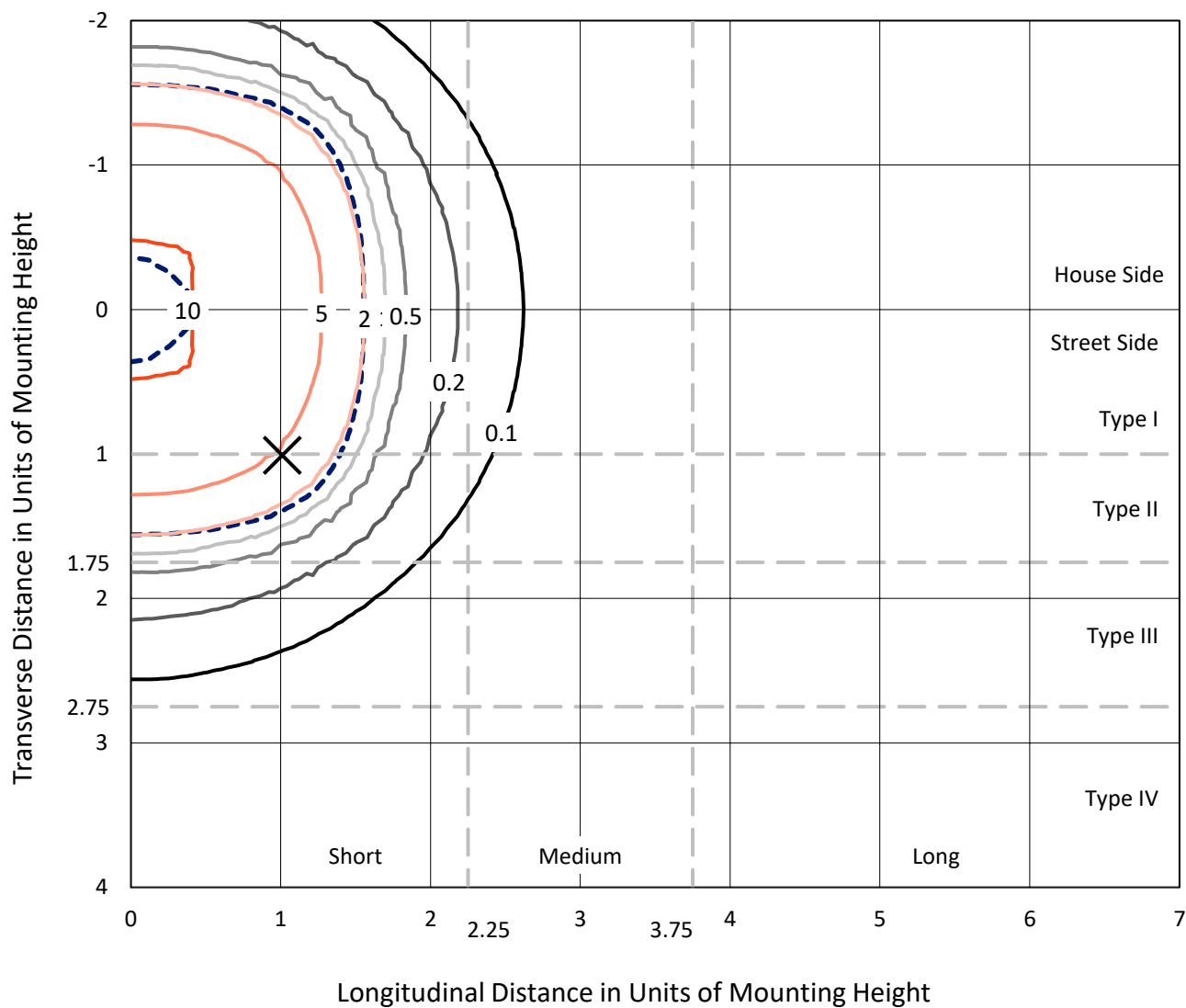
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

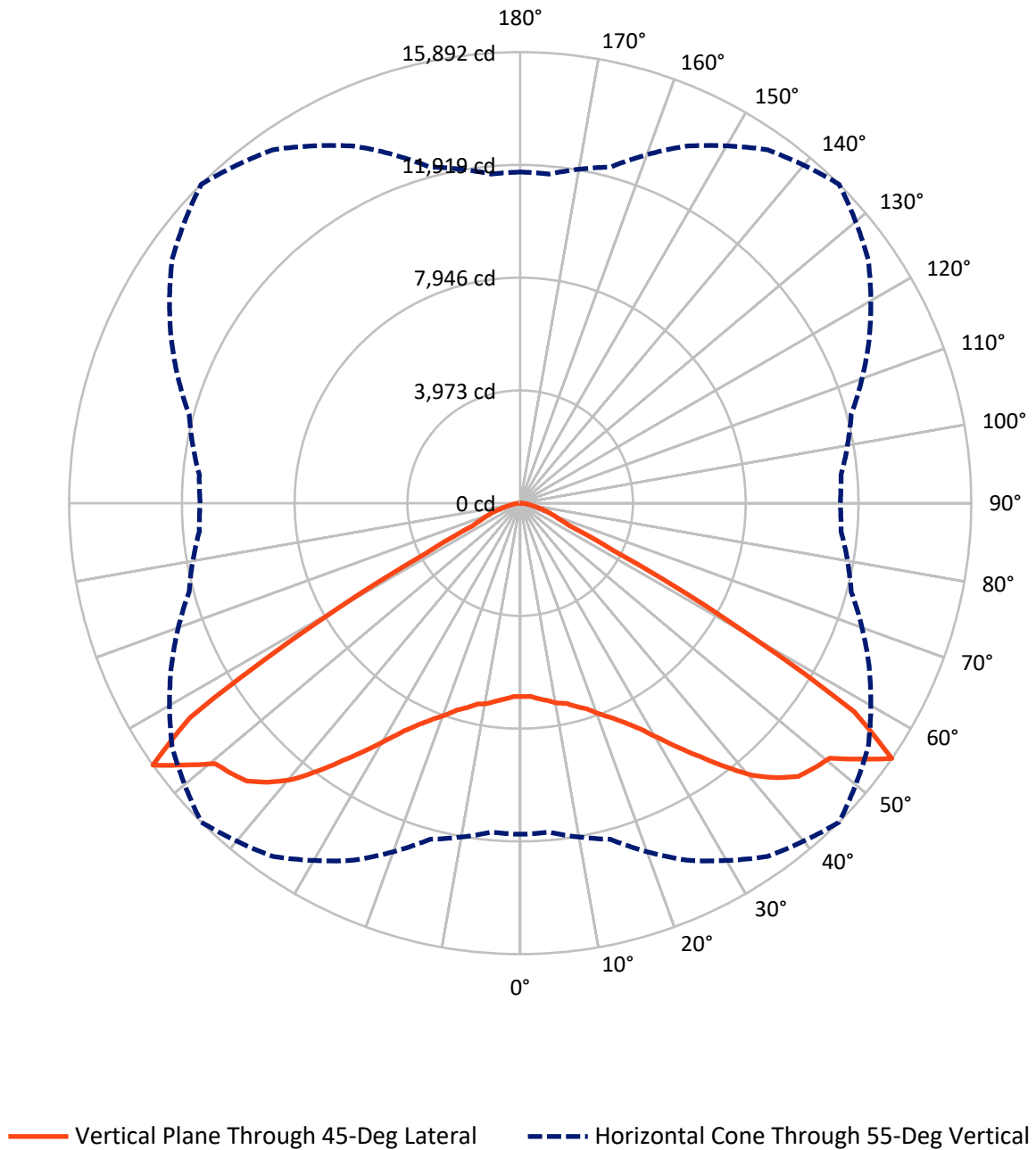
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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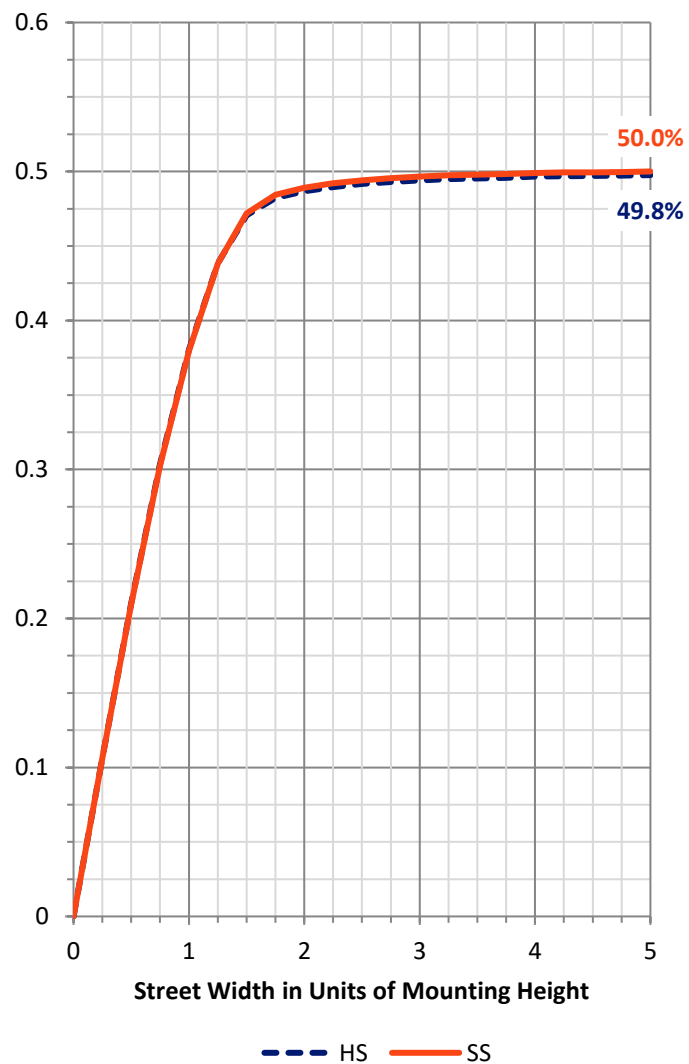
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 18671.0  | 0.0    | 18671.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 18671.0  | 0.0    | 18671.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 37342.0  | 0.0    | 37342.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 666.1   | 1.8       |
| 10°-20°   | 2110.4  | 5.7       |
| 20°-30°   | 3935.3  | 10.5      |
| 30°-40°   | 6588.9  | 17.6      |
| 40°-50°   | 10252.9 | 27.5      |
| 50°-60°   | 10645.7 | 28.5      |
| 60°-70°   | 2257.6  | 6.0       |
| 70°-80°   | 743.5   | 2.0       |
| 80°-90°   | 141.6   | 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°    | 37342.0 | 100.0     |
| 0°-180°   | 37342.0 | 100.0     |

**Coefficient of Utilization**



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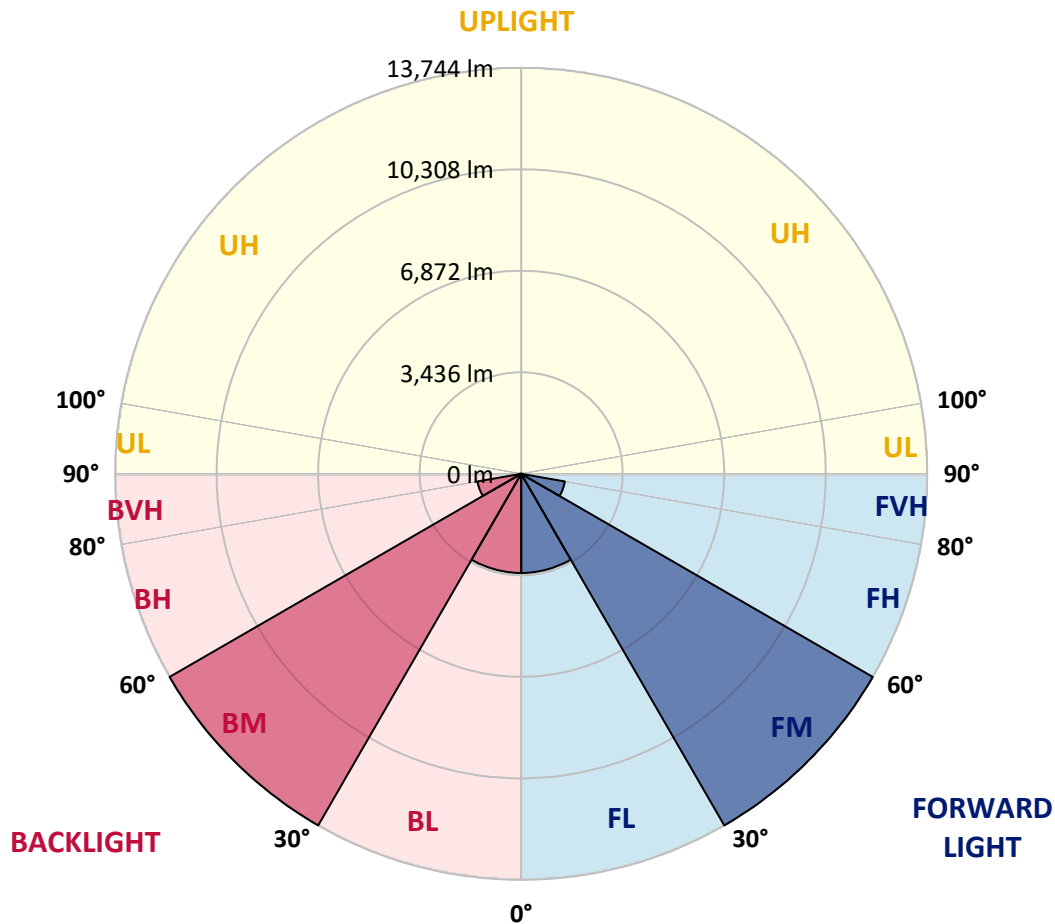
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3355.9  | 9.0       |                         |      |         |
| FM   | (30°-60°)   | 13743.8 | 36.8      |                         |      |         |
| FH   | (60°-80°)   | 1500.6  | 4.0       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 70.8    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 3355.9  | 9.0       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 13743.8 | 36.8      | B5                      |      |         |
| BH   | (60°-80°)   | 1500.6  | 4.0       | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 70.8    | 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°    | 6818.1  | 6818.1  | 6818.1  | 6818.1  | 6818.1  | 6818.1  | 6818.1  | 6818.1  | 6818.1  | 6818.1  | 6818.1  |
| 2.5°  | 6899.3  | 6867.7  | 6813.6  | 6854.2  | 6885.8  | 6818.1  | 6845.2  | 6858.7  | 6849.7  | 6813.6  | 6827.1  |
| 5°    | 6998.6  | 6980.5  | 6935.4  | 6967.0  | 6926.4  | 6926.4  | 6899.3  | 6863.2  | 6917.4  | 6908.3  | 6930.9  |
| 7.5°  | 6998.6  | 6976.0  | 7066.3  | 7007.6  | 7025.7  | 7025.7  | 6980.5  | 6944.4  | 6971.5  | 6930.9  | 6908.3  |
| 10°   | 7138.5  | 7170.1  | 7129.4  | 7143.0  | 7134.0  | 7165.5  | 7097.9  | 7075.3  | 7052.7  | 7039.2  | 7012.1  |
| 12.5° | 7305.4  | 7282.9  | 7296.4  | 7287.4  | 7319.0  | 7237.7  | 7197.1  | 7147.5  | 7188.1  | 7129.4  | 7170.1  |
| 15°   | 7440.8  | 7427.3  | 7440.8  | 7476.9  | 7445.3  | 7440.8  | 7368.6  | 7319.0  | 7255.8  | 7269.3  | 7206.2  |
| 17.5° | 7625.8  | 7612.3  | 7616.8  | 7648.4  | 7643.8  | 7621.3  | 7567.1  | 7472.4  | 7449.8  | 7413.7  | 7373.1  |
| 20°   | 7901.0  | 7878.5  | 7869.5  | 7883.0  | 7905.6  | 7923.6  | 7815.3  | 7779.2  | 7702.5  | 7643.8  | 7576.2  |
| 22.5° | 8135.7  | 8126.7  | 8162.8  | 8104.1  | 8153.7  | 8207.9  | 8104.1  | 8086.0  | 7896.5  | 7864.9  | 7792.8  |
| 25°   | 8460.6  | 8447.0  | 8424.5  | 8510.2  | 8568.9  | 8564.4  | 8465.1  | 8365.8  | 8221.4  | 8185.3  | 8185.3  |
| 27.5° | 8803.5  | 8726.8  | 8844.1  | 8866.7  | 8970.5  | 9002.0  | 8916.3  | 8771.9  | 8636.6  | 8559.8  | 8577.9  |
| 30°   | 9232.2  | 9160.0  | 9187.1  | 9349.5  | 9484.9  | 9602.2  | 9385.6  | 9173.5  | 8984.0  | 8848.6  | 8826.1  |
| 32.5° | 9660.8  | 9588.6  | 9669.9  | 9827.8  | 10098.5 | 10274.5 | 10062.4 | 9692.4  | 9471.3  | 9272.8  | 9313.4  |
| 35°   | 10008.3 | 10062.4 | 10193.3 | 10432.4 | 10712.2 | 10996.5 | 10658.1 | 10373.8 | 10057.9 | 9836.8  | 9868.4  |
| 37.5° | 10567.8 | 10734.8 | 10838.6 | 11113.8 | 11510.9 | 11804.2 | 11452.2 | 11082.2 | 10743.8 | 10455.0 | 10355.7 |
| 40°   | 11298.8 | 11411.6 | 11528.9 | 11853.8 | 12323.1 | 12616.4 | 12282.5 | 11799.7 | 11465.8 | 11168.0 | 11154.4 |
| 42.5° | 12102.0 | 12210.3 | 12332.1 | 12729.2 | 13009.0 | 13230.1 | 12923.2 | 12666.0 | 12296.0 | 12061.4 | 12047.9 |
| 45°   | 13036.0 | 12959.3 | 13094.7 | 13356.4 | 13591.1 | 13735.5 | 13536.9 | 13410.6 | 13144.3 | 12927.8 | 12905.2 |
| 47.5° | 13658.7 | 13591.1 | 13834.7 | 14069.4 | 14105.5 | 13947.5 | 13988.1 | 14105.5 | 13825.7 | 13469.2 | 13582.0 |
| 50°   | 14019.7 | 14019.7 | 14182.2 | 14398.8 | 14331.1 | 14128.0 | 14448.4 | 14457.4 | 14177.7 | 13861.8 | 13861.8 |
| 52.5° | 13392.5 | 13532.4 | 13992.7 | 14701.1 | 14926.7 | 14985.4 | 14913.2 | 14606.3 | 13875.3 | 13230.1 | 13198.5 |
| 55°   | 11668.8 | 11637.2 | 12259.9 | 13884.4 | 15197.4 | 15892.3 | 14971.8 | 13559.5 | 12074.9 | 11348.4 | 11276.2 |
| 57.5° | 7589.7  | 7625.8  | 8555.3  | 10211.3 | 12580.3 | 13875.3 | 12323.1 | 10337.7 | 8555.3  | 7553.6  | 7648.4  |
| 60°   | 3415.8  | 3537.6  | 4101.7  | 5338.1  | 7373.1  | 8429.0  | 7391.2  | 5608.8  | 4304.7  | 3736.2  | 3785.8  |
| 62.5° | 1962.9  | 1985.4  | 2008.0  | 2382.5  | 3140.6  | 3713.6  | 3262.4  | 2517.9  | 2220.1  | 2120.8  | 2120.8  |
| 65°   | 1656.0  | 1642.5  | 1647.0  | 1678.6  | 1759.8  | 1877.1  | 1827.5  | 1759.8  | 1768.8  | 1759.8  | 1746.3  |
| 67.5° | 1407.8  | 1425.9  | 1412.4  | 1434.9  | 1439.4  | 1457.5  | 1489.1  | 1516.1  | 1520.6  | 1529.7  | 1520.6  |
| 70°   | 1155.1  | 1159.7  | 1168.7  | 1186.7  | 1191.2  | 1204.8  | 1249.9  | 1272.5  | 1286.0  | 1286.0  | 1304.1  |
| 72.5° | 884.4   | 879.9   | 888.9   | 907.0   | 929.5   | 934.0   | 974.7   | 1006.2  | 1024.3  | 1001.7  | 1006.2  |
| 75°   | 582.1   | 586.6   | 600.1   | 613.7   | 645.3   | 676.8   | 690.4   | 722.0   | 726.5   | 735.5   | 712.9   |
| 77.5° | 347.4   | 356.5   | 370.0   | 397.1   | 424.2   | 451.2   | 482.8   | 505.4   | 514.4   | 505.4   | 478.3   |
| 80°   | 225.6   | 225.6   | 243.7   | 266.2   | 297.8   | 320.4   | 338.4   | 356.5   | 370.0   | 356.5   | 347.4   |
| 82.5° | 139.9   | 139.9   | 162.4   | 189.5   | 212.1   | 225.6   | 252.7   | 275.3   | 288.8   | 279.8   | 266.2   |
| 85°   | 72.2    | 76.7    | 94.8    | 117.3   | 135.4   | 144.4   | 139.9   | 126.3   | 112.8   | 108.3   | 99.3    |
| 87.5° | 22.6    | 22.6    | 27.1    | 27.1    | 22.6    | 22.6    | 27.1    | 22.6    | 27.1    | 27.1    | 27.1    |
| 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)