

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: P531344

Luminaire Tested: **GLAN-SA6C-827-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531344  
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-SA6C-827-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 27605 lumens  
Efficiency: N/A  
Efficacy: 86.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

Input Watts (W): 321  
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



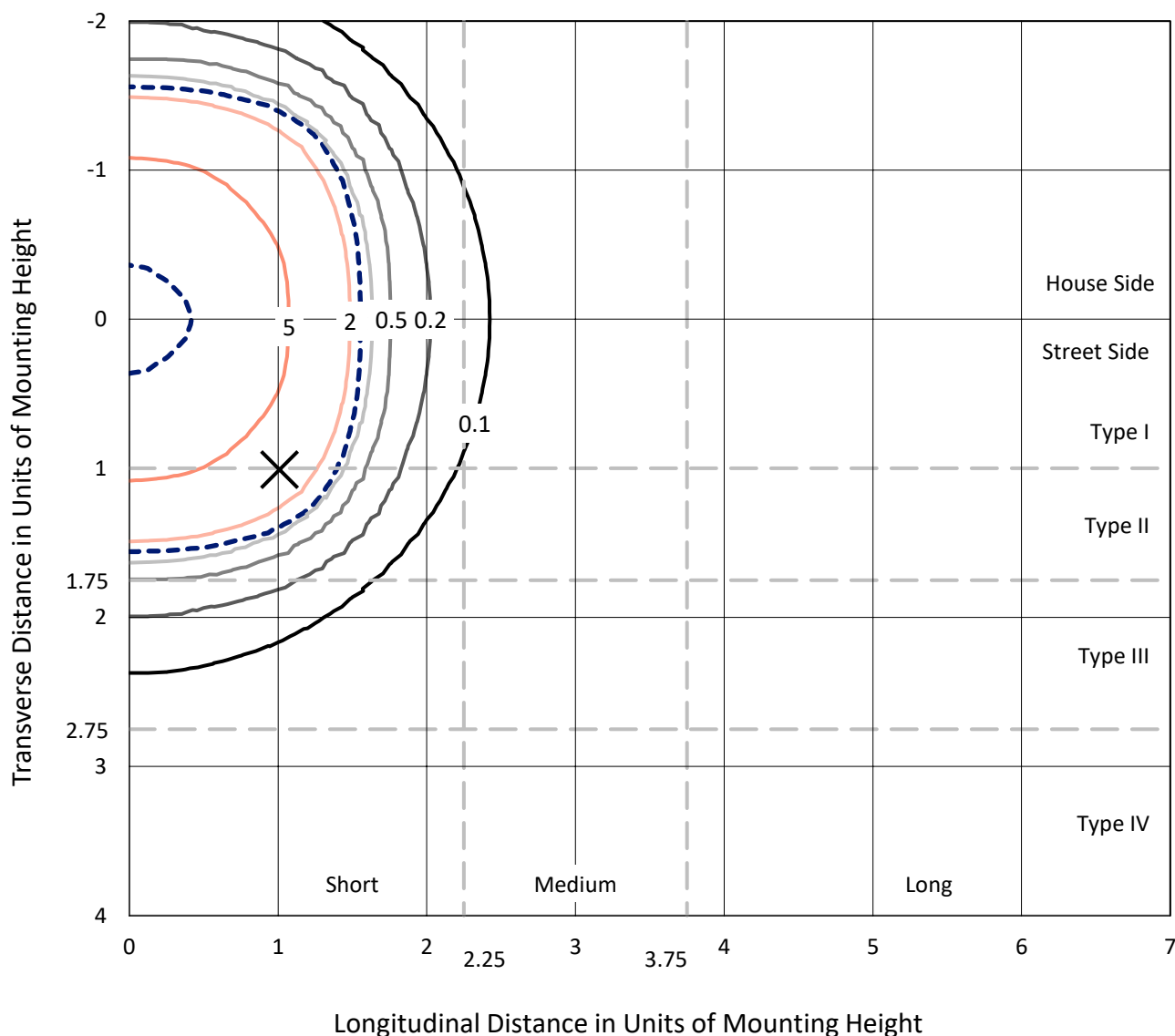
REPORT NUMBER: P531344

CATALOG NUMBER: GLAN-SA6C-827-U-5NQ-GRSWH

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

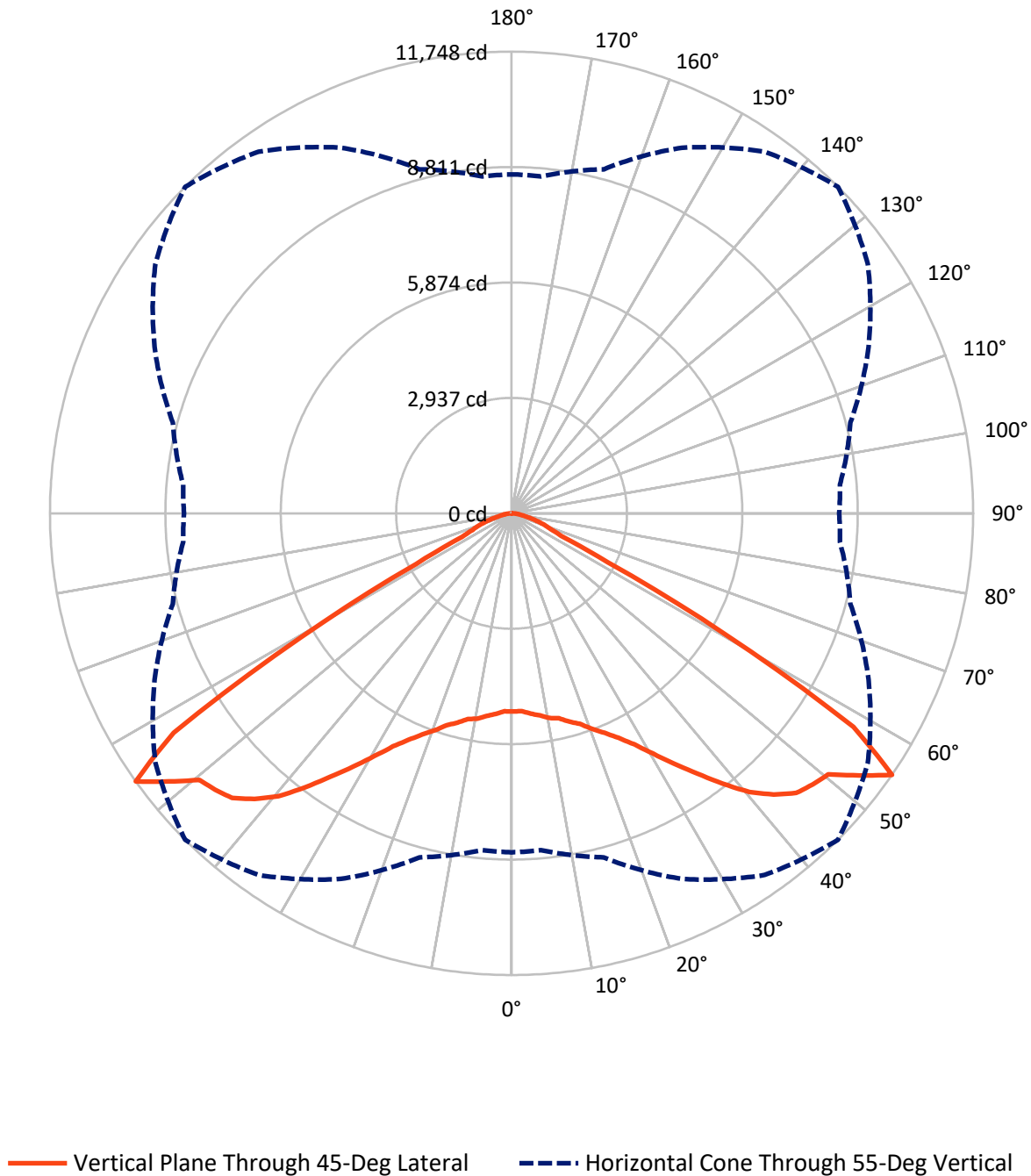


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc

Type V - Short - N/A

REPORT NUMBER: P531344  
CATALOG NUMBER: GLAN-SA6C-827-U-5NQ-GRSWH

## Luminous Intensity Polar Plot



REPORT NUMBER: P531344

CATALOG NUMBER: GLAN-SA6C-827-U-5NQ-GRSWH

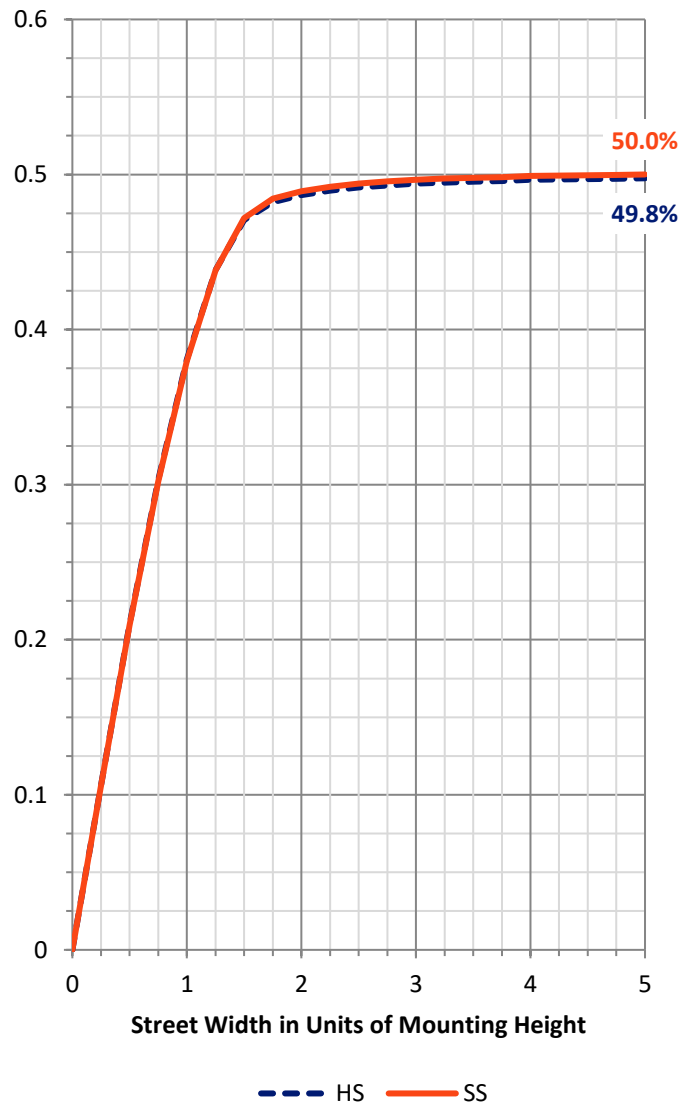
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13802.5  | 0.0    | 13802.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 13802.5  | 0.0    | 13802.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 27605.0  | 0.0    | 27605.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 492.4   | 1.8       |
| 10°-20°   | 1560.1  | 5.7       |
| 20°-30°   | 2909.1  | 10.5      |
| 30°-40°   | 4870.8  | 17.6      |
| 40°-50°   | 7579.4  | 27.5      |
| 50°-60°   | 7869.8  | 28.5      |
| 60°-70°   | 1668.9  | 6.0       |
| 70°-80°   | 549.6   | 2.0       |
| 80°-90°   | 104.7   | 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°    | 27605.0 | 100.0     |
| 0°-180°   | 27605.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P531344

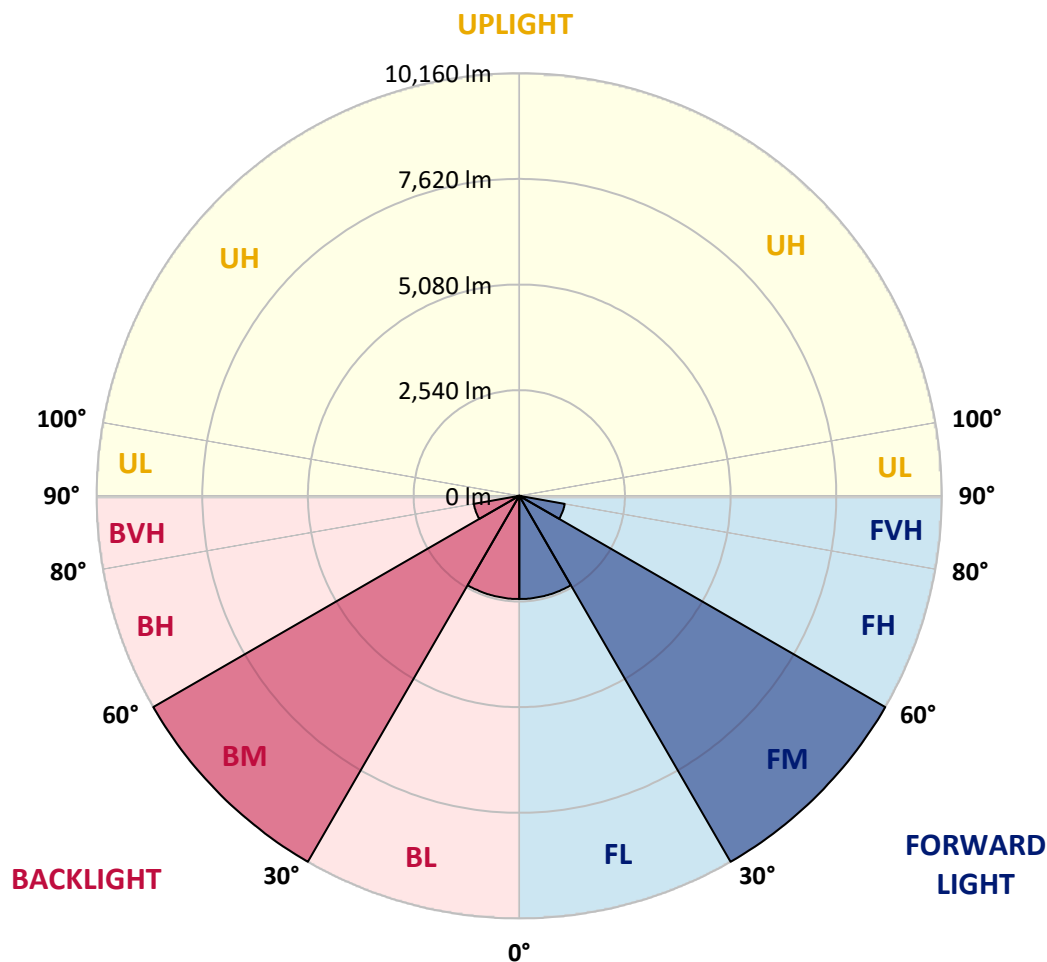
CATALOG NUMBER: GLAN-SA6C-827-U-5NQ-GRSWH

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2480.8  | 9.0       |                         |      |         |
| FM   | (30°-60°)   | 10160.0 | 36.8      |                         |      |         |
| FH   | (60°-80°)   | 1109.3  | 4.0       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 52.3    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 2480.8  | 9.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 10160.0 | 36.8      | B5                      |      |         |
| BH   | (60°-80°)   | 1109.3  | 4.0       | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 52.3    | 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





REPORT NUMBER: P531344

CATALOG NUMBER: GLAN-SA6C-827-U-5NQ-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5040.3  | 5040.3  | 5040.3  | 5040.3  | 5040.3  | 5040.3  | 5040.3  | 5040.3  | 5040.3  | 5040.3  | 5040.3  |
| 2.5°  | 5100.3  | 5077.0  | 5036.9  | 5066.9  | 5090.3  | 5040.3  | 5060.3  | 5070.3  | 5063.6  | 5036.9  | 5046.9  |
| 5°    | 5173.7  | 5160.3  | 5127.0  | 5150.3  | 5120.3  | 5120.3  | 5100.3  | 5073.6  | 5113.6  | 5107.0  | 5123.7  |
| 7.5°  | 5173.7  | 5157.0  | 5223.7  | 5180.4  | 5193.7  | 5193.7  | 5160.3  | 5133.7  | 5153.7  | 5123.7  | 5107.0  |
| 10°   | 5277.1  | 5300.4  | 5270.4  | 5280.4  | 5273.8  | 5297.1  | 5247.1  | 5230.4  | 5213.7  | 5203.7  | 5183.7  |
| 12.5° | 5400.5  | 5383.8  | 5393.8  | 5387.2  | 5410.5  | 5350.5  | 5320.5  | 5283.8  | 5313.8  | 5270.4  | 5300.4  |
| 15°   | 5500.6  | 5490.6  | 5500.6  | 5527.3  | 5503.9  | 5500.6  | 5447.2  | 5410.5  | 5363.8  | 5373.8  | 5327.1  |
| 17.5° | 5637.4  | 5627.3  | 5630.7  | 5654.0  | 5650.7  | 5634.0  | 5594.0  | 5523.9  | 5507.3  | 5480.6  | 5450.6  |
| 20°   | 5840.8  | 5824.2  | 5817.5  | 5827.5  | 5844.2  | 5857.5  | 5777.5  | 5750.8  | 5694.1  | 5650.7  | 5600.7  |
| 22.5° | 6014.3  | 6007.6  | 6034.3  | 5990.9  | 6027.6  | 6067.7  | 5990.9  | 5977.6  | 5837.5  | 5814.1  | 5760.8  |
| 25°   | 6254.5  | 6244.5  | 6227.8  | 6291.2  | 6334.5  | 6331.2  | 6257.8  | 6184.4  | 6077.7  | 6051.0  | 6051.0  |
| 27.5° | 6508.0  | 6451.3  | 6538.0  | 6554.7  | 6631.4  | 6654.7  | 6591.4  | 6484.6  | 6384.6  | 6327.8  | 6341.2  |
| 30°   | 6824.9  | 6771.5  | 6791.5  | 6911.6  | 7011.7  | 7098.4  | 6938.3  | 6781.5  | 6641.4  | 6541.3  | 6524.7  |
| 32.5° | 7141.8  | 7088.4  | 7148.4  | 7265.2  | 7465.3  | 7595.4  | 7438.6  | 7165.1  | 7001.7  | 6854.9  | 6884.9  |
| 35°   | 7398.6  | 7438.6  | 7535.4  | 7712.2  | 7919.0  | 8129.1  | 7879.0  | 7668.8  | 7435.3  | 7271.9  | 7295.2  |
| 37.5° | 7812.2  | 7935.7  | 8012.4  | 8215.9  | 8509.4  | 8726.2  | 8466.0  | 8192.5  | 7942.3  | 7728.8  | 7655.5  |
| 40°   | 8352.6  | 8436.0  | 8522.7  | 8762.9  | 9109.8  | 9326.7  | 9079.8  | 8722.9  | 8476.0  | 8255.9  | 8245.9  |
| 42.5° | 8946.4  | 9026.4  | 9116.5  | 9410.0  | 9616.9  | 9780.3  | 9553.5  | 9363.3  | 9089.8  | 8916.4  | 8906.4  |
| 45°   | 9636.9  | 9580.2  | 9680.2  | 9873.7  | 10047.2 | 10153.9 | 10007.1 | 9913.7  | 9716.9  | 9556.8  | 9540.1  |
| 47.5° | 10097.2 | 10047.2 | 10227.3 | 10400.8 | 10427.4 | 10310.7 | 10340.7 | 10427.4 | 10220.6 | 9957.1  | 10040.5 |
| 50°   | 10364.1 | 10364.1 | 10484.1 | 10644.3 | 10594.2 | 10444.1 | 10681.0 | 10687.6 | 10480.8 | 10247.3 | 10247.3 |
| 52.5° | 9900.4  | 10003.8 | 10344.0 | 10867.8 | 11034.5 | 11077.9 | 11024.5 | 10797.7 | 10257.3 | 9780.3  | 9757.0  |
| 55°   | 8626.2  | 8602.8  | 9063.1  | 10264.0 | 11234.7 | 11748.4 | 11067.9 | 10023.8 | 8926.4  | 8389.3  | 8335.9  |
| 57.5° | 5610.7  | 5637.4  | 6324.5  | 7548.7  | 9300.0  | 10257.3 | 9109.8  | 7642.1  | 6324.5  | 5584.0  | 5654.0  |
| 60°   | 2525.1  | 2615.2  | 3032.2  | 3946.1  | 5450.6  | 6231.1  | 5463.9  | 4146.3  | 3182.3  | 2762.0  | 2798.7  |
| 62.5° | 1451.0  | 1467.7  | 1484.4  | 1761.3  | 2321.7  | 2745.3  | 2411.7  | 1861.3  | 1641.2  | 1567.8  | 1567.8  |
| 65°   | 1224.2  | 1214.2  | 1217.5  | 1240.9  | 1300.9  | 1387.7  | 1351.0  | 1300.9  | 1307.6  | 1300.9  | 1290.9  |
| 67.5° | 1040.7  | 1054.1  | 1044.1  | 1060.8  | 1064.1  | 1077.4  | 1100.8  | 1120.8  | 1124.1  | 1130.8  | 1124.1  |
| 70°   | 853.9   | 857.3   | 863.9   | 877.3   | 880.6   | 890.6   | 924.0   | 940.7   | 950.7   | 950.7   | 964.0   |
| 72.5° | 653.8   | 650.5   | 657.1   | 670.5   | 687.2   | 690.5   | 720.5   | 743.9   | 757.2   | 740.5   | 743.9   |
| 75°   | 430.3   | 433.6   | 443.6   | 453.7   | 477.0   | 500.4   | 510.4   | 533.7   | 537.0   | 543.7   | 527.0   |
| 77.5° | 256.8   | 263.5   | 273.5   | 293.5   | 313.6   | 333.6   | 356.9   | 373.6   | 380.3   | 373.6   | 353.6   |
| 80°   | 166.8   | 166.8   | 180.1   | 196.8   | 220.2   | 236.8   | 250.2   | 263.5   | 273.5   | 263.5   | 256.8   |
| 82.5° | 103.4   | 103.4   | 120.1   | 140.1   | 156.8   | 166.8   | 186.8   | 203.5   | 213.5   | 206.8   | 196.8   |
| 85°   | 53.4    | 56.7    | 70.0    | 86.7    | 100.1   | 106.7   | 103.4   | 93.4    | 83.4    | 80.1    | 73.4    |
| 87.5° | 16.7    | 16.7    | 20.0    | 20.0    | 16.7    | 16.7    | 20.0    | 16.7    | 20.0    | 20.0    | 20.0    |
| 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)