

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: P457590

Luminaire Tested: **GLAN-SA9A-722-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457590  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9A-722-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31444 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

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

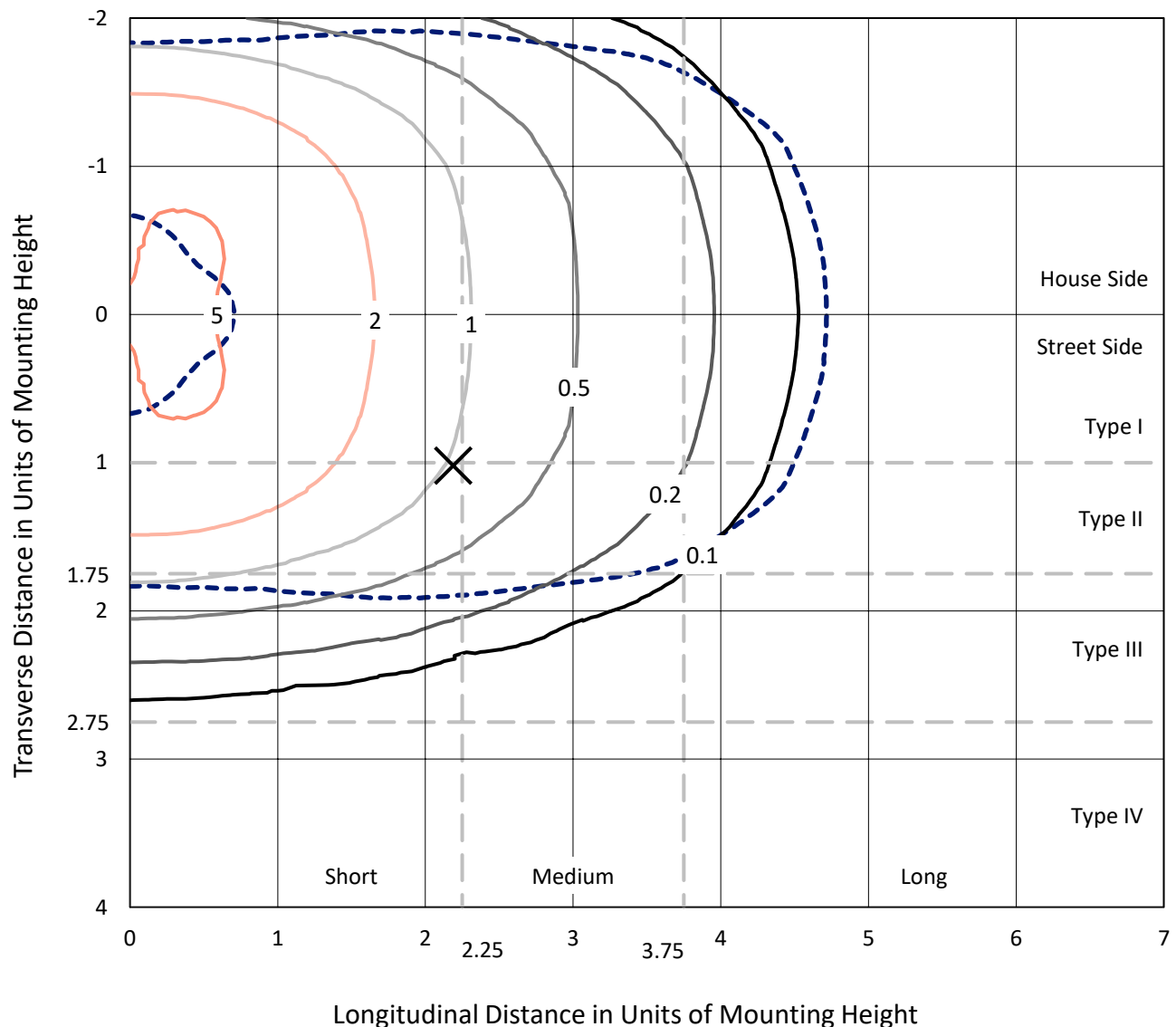


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

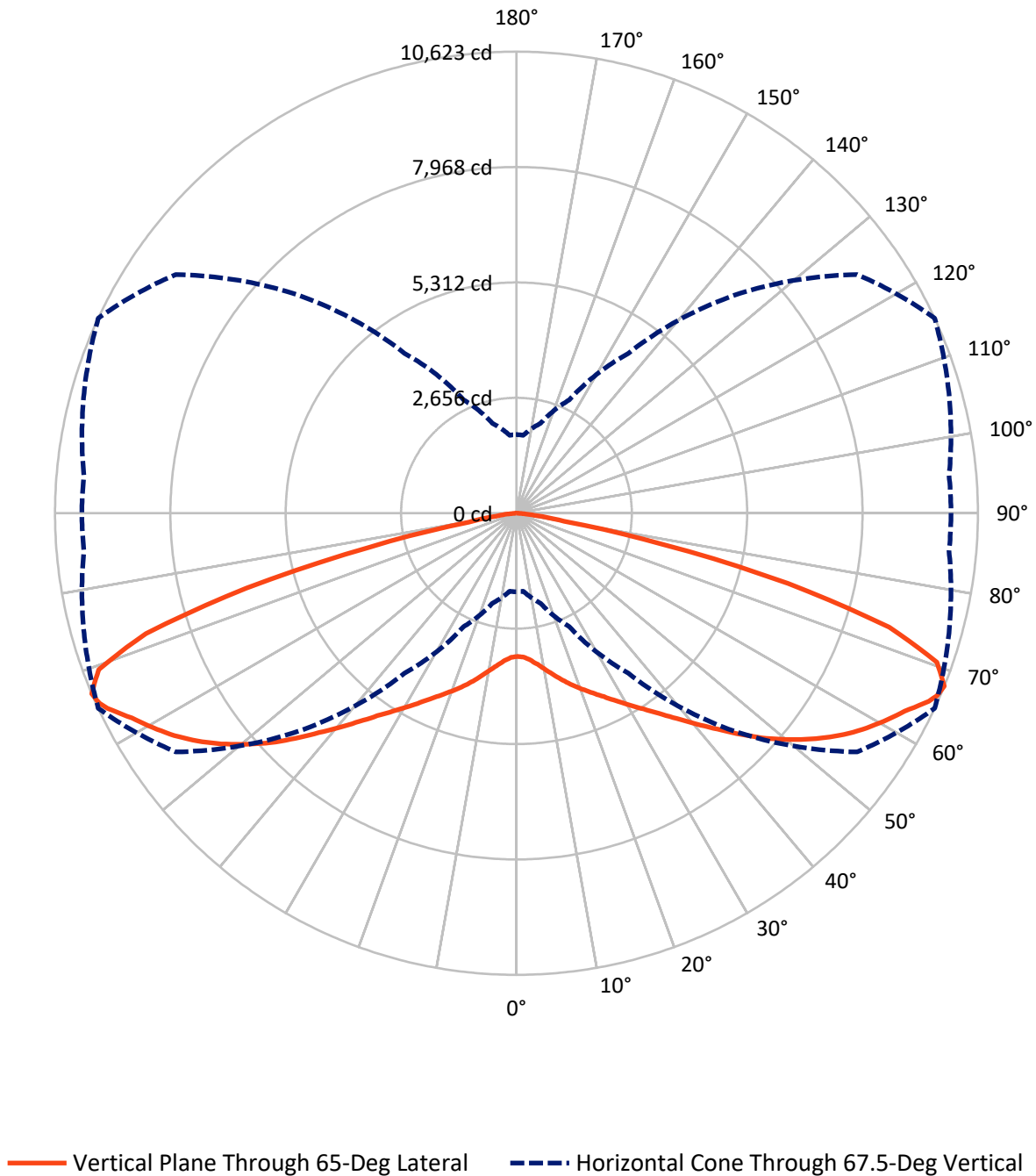


Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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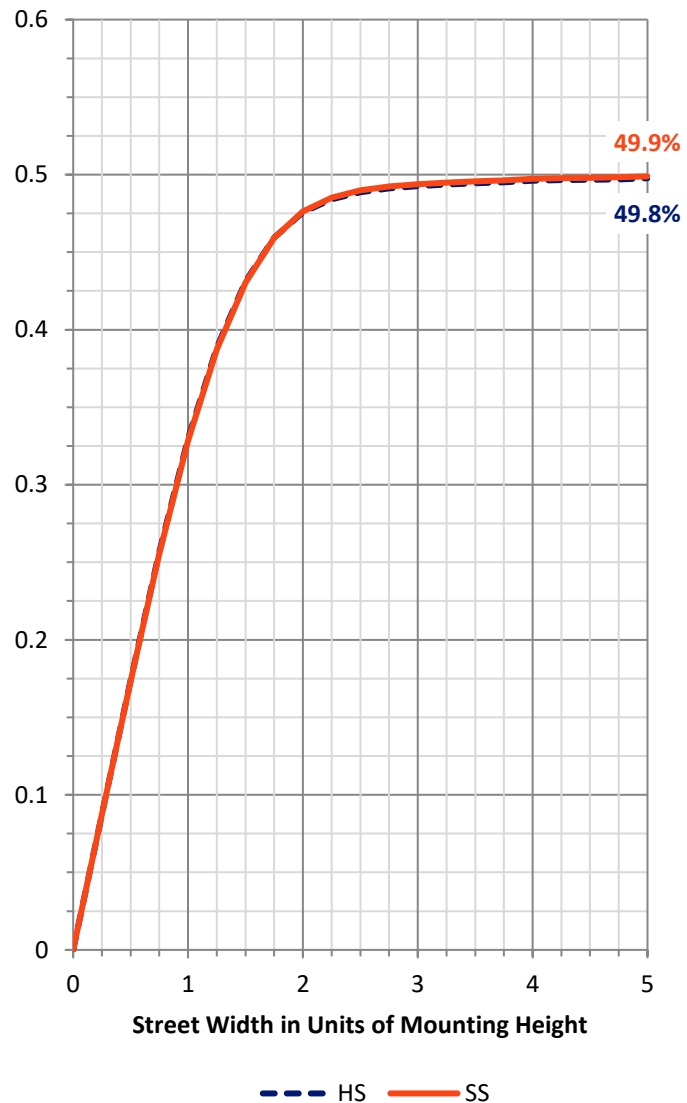
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15722.0  | 0.0    | 15722.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 15722.0  | 0.0    | 15722.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 31444.0  | 0.0    | 31444.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 324.8   | 1.0       |
| 10°-20°   | 1087.2  | 3.5       |
| 20°-30°   | 2126.6  | 6.8       |
| 30°-40°   | 3617.0  | 11.5      |
| 40°-50°   | 5724.7  | 18.2      |
| 50°-60°   | 7590.8  | 24.1      |
| 60°-70°   | 7160.4  | 22.8      |
| 70°-80°   | 3539.8  | 11.3      |
| 80°-90°   | 272.8   | 0.9       |
| 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°    | 31444.0 | 100.0     |
| 0°-180°   | 31444.0 | 100.0     |

**Coefficient of Utilization**



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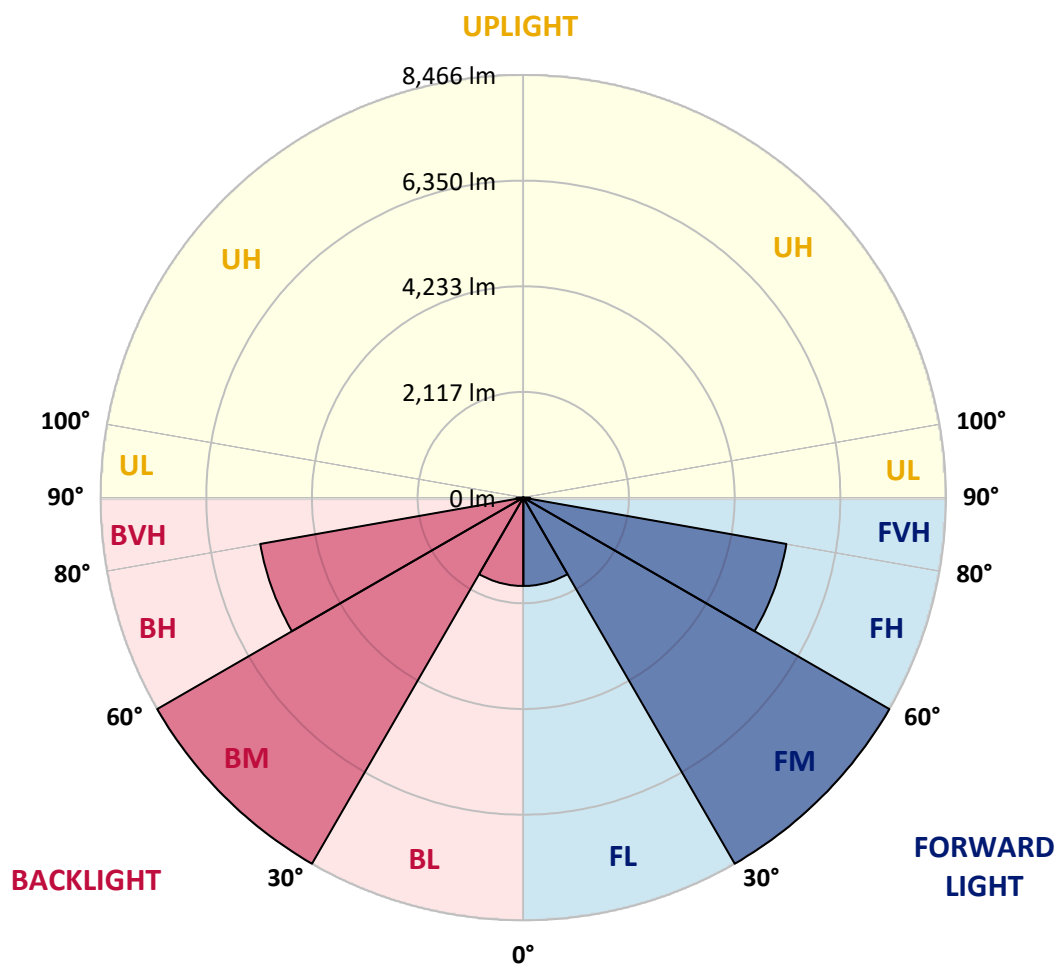
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1769.3 | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 8466.2 | 26.9      |                         |      |         |
| FH   | (60°-80°)   | 5350.1 | 17.0      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 136.4  | 0.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1769.3 | 5.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 8466.2 | 26.9      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 5350.1 | 17.0      | B5                      |      | G5      |
| BVH  | (80°-90°)   | 136.4  | 0.4       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 3293.5 | 3293.5 | 3293.5 | 3293.5 | 3293.5 | 3293.5 | 3293.5  | 3293.5  | 3293.5  | 3293.5  | 3293.5  |
| 2.5°  | 3276.6 | 3280.0 | 3283.4 | 3288.4 | 3295.2 | 3305.3 | 3312.0  | 3317.1  | 3330.5  | 3332.2  | 3330.5  |
| 5°    | 3264.8 | 3268.2 | 3276.6 | 3291.8 | 3313.7 | 3344.0 | 3367.6  | 3396.2  | 3418.1  | 3433.3  | 3429.9  |
| 7.5°  | 3263.2 | 3269.9 | 3283.4 | 3315.4 | 3357.5 | 3409.7 | 3463.6  | 3512.5  | 3554.6  | 3588.3  | 3583.2  |
| 10°   | 3290.1 | 3298.5 | 3320.4 | 3367.6 | 3433.3 | 3509.1 | 3584.9  | 3657.4  | 3718.0  | 3761.8  | 3777.0  |
| 12.5° | 3335.6 | 3342.3 | 3382.8 | 3453.5 | 3547.9 | 3642.2 | 3728.1  | 3817.4  | 3901.6  | 3975.8  | 3975.8  |
| 15°   | 3414.8 | 3426.6 | 3477.1 | 3579.9 | 3696.1 | 3805.6 | 3893.2  | 3987.6  | 4078.5  | 4162.8  | 4188.0  |
| 17.5° | 3524.3 | 3541.1 | 3616.9 | 3748.3 | 3896.6 | 3997.7 | 4080.2  | 4157.7  | 4236.9  | 4317.7  | 4329.5  |
| 20°   | 3674.2 | 3691.1 | 3792.1 | 3950.5 | 4125.7 | 4247.0 | 4302.6  | 4321.1  | 4359.9  | 4437.4  | 4447.5  |
| 22.5° | 3878.1 | 3894.9 | 4007.8 | 4186.3 | 4381.8 | 4513.2 | 4536.7  | 4492.9  | 4482.8  | 4543.5  | 4550.2  |
| 25°   | 4108.8 | 4124.0 | 4253.7 | 4445.8 | 4647.9 | 4791.1 | 4784.4  | 4676.6  | 4615.9  | 4653.0  | 4663.1  |
| 27.5° | 4368.3 | 4390.2 | 4521.6 | 4720.4 | 4939.4 | 5065.7 | 5045.5  | 4888.8  | 4759.1  | 4752.4  | 4755.8  |
| 30°   | 4700.2 | 4723.7 | 4848.4 | 5038.8 | 5254.4 | 5370.6 | 5328.5  | 5118.0  | 4917.5  | 4850.1  | 4850.1  |
| 32.5° | 5050.6 | 5109.5 | 5235.9 | 5434.7 | 5603.1 | 5687.4 | 5623.3  | 5370.6  | 5104.5  | 5010.1  | 5005.1  |
| 35°   | 5507.1 | 5539.1 | 5663.8 | 5857.5 | 5983.9 | 6049.6 | 5926.6  | 5655.4  | 5348.7  | 5237.6  | 5222.4  |
| 37.5° | 5953.5 | 5980.5 | 6125.4 | 6310.7 | 6464.0 | 6460.6 | 6293.8  | 5994.0  | 5652.0  | 5527.3  | 5517.2  |
| 40°   | 6410.1 | 6438.7 | 6603.8 | 6774.0 | 6927.3 | 6913.8 | 6711.6  | 6376.4  | 6012.5  | 5872.7  | 5899.6  |
| 42.5° | 6806.0 | 6838.0 | 7025.0 | 7267.6 | 7405.7 | 7402.3 | 7168.2  | 6790.8  | 6411.8  | 6287.1  | 6310.7  |
| 45°   | 7166.5 | 7195.1 | 7412.4 | 7690.4 | 7892.6 | 7917.8 | 7661.8  | 7262.5  | 6873.4  | 6713.3  | 6720.1  |
| 47.5° | 7420.9 | 7474.8 | 7702.2 | 8020.6 | 8295.2 | 8384.5 | 8133.5  | 7742.6  | 7294.5  | 7127.7  | 7137.8  |
| 50°   | 7614.6 | 7648.3 | 7895.9 | 8258.1 | 8605.2 | 8790.5 | 8588.3  | 8187.4  | 7715.7  | 7538.8  | 7562.4  |
| 52.5° | 7638.2 | 7678.6 | 7948.2 | 8365.9 | 8810.7 | 9092.0 | 8992.6  | 8622.0  | 8145.3  | 7963.3  | 8013.9  |
| 55°   | 7446.1 | 7469.7 | 7791.5 | 8298.6 | 8891.6 | 9316.1 | 9341.4  | 9026.3  | 8554.6  | 8416.5  | 8450.2  |
| 57.5° | 6898.6 | 6959.3 | 7367.0 | 7983.5 | 8780.4 | 9435.7 | 9602.5  | 9393.6  | 8969.1  | 8832.6  | 8886.5  |
| 60°   | 6000.7 | 6061.4 | 6470.7 | 7252.4 | 8360.9 | 9380.1 | 9818.1  | 9718.7  | 9344.7  | 9235.2  | 9263.9  |
| 62.5° | 4701.8 | 4696.8 | 5203.9 | 6162.4 | 7527.0 | 9107.2 | 9978.2  | 10032.1 | 9715.3  | 9577.2  | 9621.0  |
| 65°   | 3047.5 | 3062.7 | 3552.9 | 4585.6 | 6268.6 | 8413.1 | 10013.5 | 10431.3 | 10079.2 | 9870.3  | 9902.3  |
| 66°   | 2451.2 | 2496.6 | 2912.8 | 3864.6 | 5626.7 | 7958.3 | 9907.4  | 10549.2 | 10190.4 | 9937.7  | 9952.9  |
| 67.5° | 1809.3 | 1800.9 | 2142.9 | 2877.4 | 4492.9 | 7094.0 | 9575.5  | 10623.4 | 10316.8 | 9998.4  | 10005.1 |
| 70°   | 1032.7 | 1031.0 | 1152.3 | 1580.2 | 2641.5 | 4995.0 | 8071.1  | 10267.9 | 10572.8 | 10217.4 | 10198.8 |
| 72.5° | 754.7  | 749.7  | 766.5  | 872.6  | 1288.8 | 2521.9 | 5567.8  | 8974.1  | 10441.4 | 10182.0 | 10129.8 |
| 75°   | 633.4  | 630.1  | 626.7  | 640.2  | 722.7  | 1142.2 | 2954.9  | 6455.6  | 9060.0  | 9557.0  | 9503.1  |
| 77.5° | 517.2  | 517.2  | 518.9  | 515.5  | 518.9  | 601.4  | 1224.7  | 3460.3  | 5517.2  | 6159.1  | 6309.0  |
| 80°   | 404.3  | 402.6  | 431.3  | 419.5  | 392.5  | 385.8  | 542.5   | 1113.6  | 1831.2  | 1821.1  | 1502.7  |
| 82.5° | 298.2  | 278.0  | 328.5  | 320.1  | 289.8  | 246.0  | 316.7   | 475.1   | 611.5   | 397.6   | 294.8   |
| 85°   | 188.7  | 187.0  | 232.5  | 212.3  | 176.9  | 116.2  | 151.6   | 203.8   | 252.7   | 153.3   | 124.7   |
| 87.5° | 33.7   | 32.0   | 74.1   | 53.9   | 53.9   | 33.7   | 42.1    | 55.6    | 82.5    | 57.3    | 42.1    |
| 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)