

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: P455325

Luminaire Tested: **GLAN-SA6C-730-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455325  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA6C-730-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39737 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

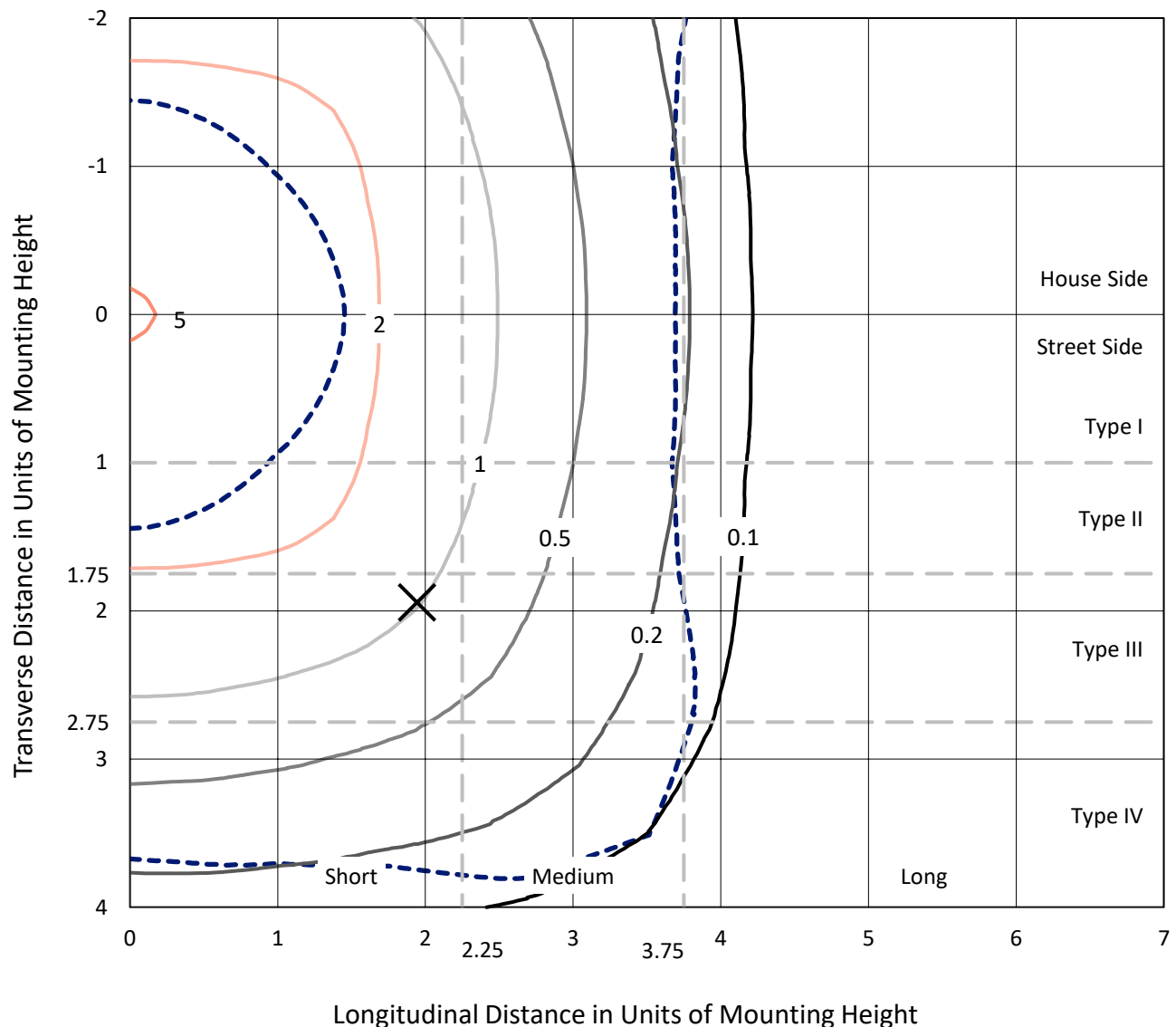


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

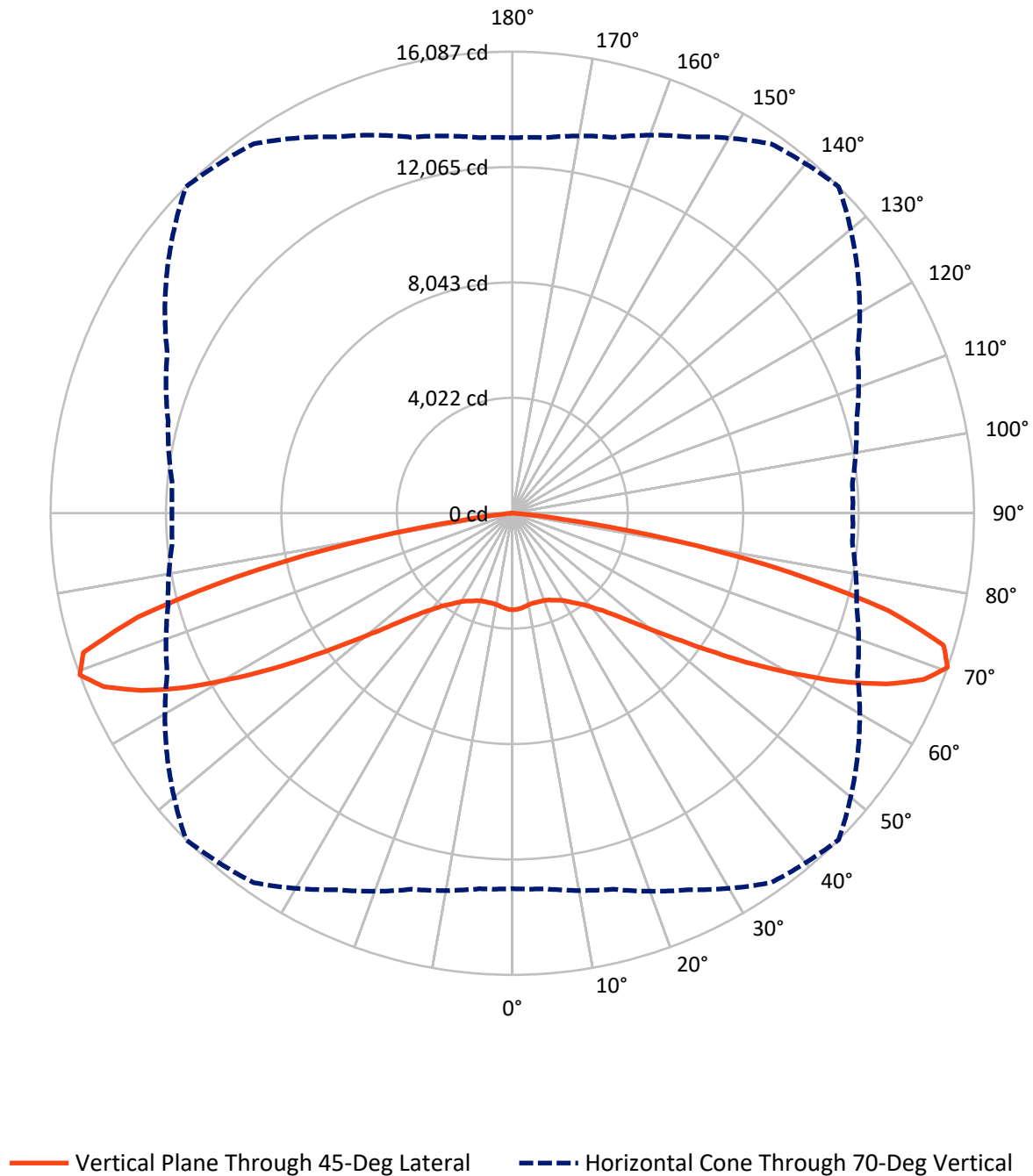


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 19868.5  | 0.0    | 19868.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 19868.5  | 0.0    | 19868.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 39737.0  | 0.0    | 39737.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 314.6   | 0.8       |
| 10°-20°   | 921.1   | 2.3       |
| 20°-30°   | 1569.3  | 3.9       |
| 30°-40°   | 2432.4  | 6.1       |
| 40°-50°   | 4094.0  | 10.3      |
| 50°-60°   | 7448.9  | 18.7      |
| 60°-70°   | 12610.7 | 31.7      |
| 70°-80°   | 9761.2  | 24.6      |
| 80°-90°   | 584.9   | 1.5       |
| 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°    | 39737.0 | 100.0     |
| 0°-180°   | 39737.0 | 100.0     |



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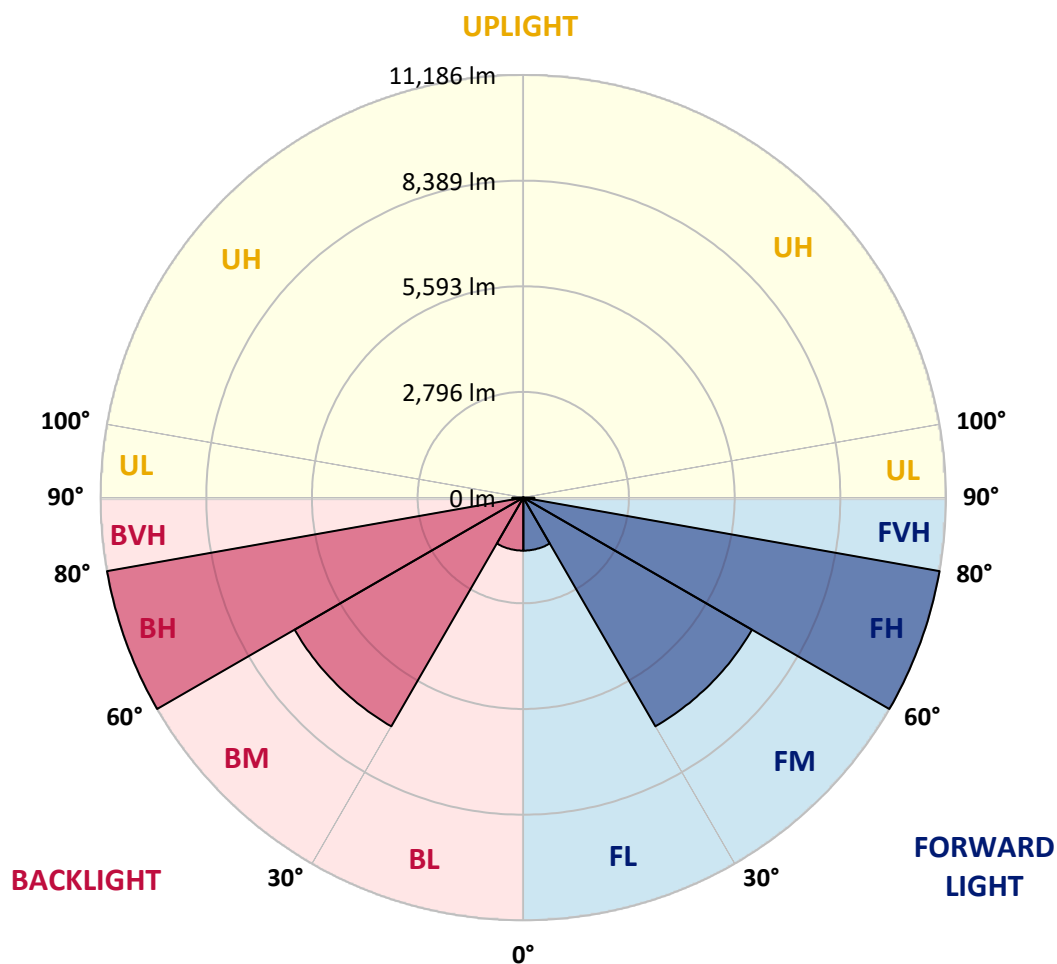
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1402.5  | 3.5       |                         |      |          |
| FM   | (30°-60°)   | 6987.6  | 17.6      |                         |      |          |
| FH   | (60°-80°)   | 11186.0 | 28.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 292.5   | 0.7       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1402.5  | 3.5       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 6987.6  | 17.6      | B4/8500                 |      |          |
| BH   | (60°-80°)   | 11186.0 | 28.1      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 292.5   | 0.7       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3364.2  | 3364.2  | 3364.2  | 3364.2  | 3364.2  | 3364.2  | 3364.2  | 3364.2  | 3364.2  | 3364.2  | 3364.2  |
| 2.5°  | 3355.8  | 3357.9  | 3357.9  | 3353.7  | 3351.6  | 3351.6  | 3349.5  | 3349.5  | 3355.8  | 3357.9  | 3360.0  |
| 5°    | 3326.4  | 3326.4  | 3326.4  | 3324.3  | 3320.2  | 3320.2  | 3316.0  | 3316.0  | 3318.1  | 3324.3  | 3320.2  |
| 7.5°  | 3286.6  | 3290.8  | 3290.8  | 3282.4  | 3276.1  | 3276.1  | 3274.0  | 3276.1  | 3278.2  | 3284.5  | 3282.4  |
| 10°   | 3274.0  | 3276.1  | 3265.6  | 3250.9  | 3240.4  | 3234.1  | 3236.2  | 3240.4  | 3250.9  | 3255.1  | 3257.2  |
| 12.5° | 3282.4  | 3282.4  | 3263.5  | 3242.5  | 3223.6  | 3215.2  | 3213.1  | 3227.8  | 3246.7  | 3259.3  | 3263.5  |
| 15°   | 3292.9  | 3288.7  | 3265.6  | 3238.3  | 3219.4  | 3217.3  | 3215.2  | 3225.7  | 3253.0  | 3278.2  | 3280.3  |
| 17.5° | 3299.2  | 3297.1  | 3267.7  | 3234.1  | 3223.6  | 3223.6  | 3221.5  | 3229.9  | 3259.3  | 3290.8  | 3292.9  |
| 20°   | 3320.2  | 3313.9  | 3280.3  | 3244.6  | 3236.2  | 3240.4  | 3234.1  | 3244.6  | 3276.1  | 3313.9  | 3322.2  |
| 22.5° | 3362.1  | 3355.8  | 3322.2  | 3286.6  | 3282.4  | 3282.4  | 3280.3  | 3290.8  | 3324.3  | 3364.2  | 3370.5  |
| 25°   | 3412.5  | 3406.2  | 3374.7  | 3349.5  | 3353.7  | 3362.1  | 3357.9  | 3360.0  | 3387.3  | 3420.9  | 3431.4  |
| 27.5° | 3479.7  | 3469.2  | 3441.9  | 3420.9  | 3433.5  | 3433.5  | 3433.5  | 3431.4  | 3448.2  | 3479.7  | 3490.1  |
| 30°   | 3561.5  | 3557.3  | 3527.9  | 3525.8  | 3536.3  | 3525.8  | 3525.8  | 3527.9  | 3530.0  | 3559.4  | 3569.9  |
| 32.5° | 3668.5  | 3660.1  | 3645.5  | 3641.3  | 3670.6  | 3679.0  | 3649.6  | 3622.4  | 3637.1  | 3666.4  | 3672.7  |
| 35°   | 3844.8  | 3832.2  | 3811.2  | 3788.2  | 3811.2  | 3851.1  | 3788.2  | 3767.2  | 3805.0  | 3844.8  | 3849.0  |
| 37.5° | 4084.1  | 4077.8  | 4044.2  | 4002.2  | 4000.1  | 4042.1  | 3977.0  | 3974.9  | 4046.3  | 4094.6  | 4100.9  |
| 40°   | 4384.2  | 4390.5  | 4348.5  | 4308.6  | 4287.7  | 4321.2  | 4270.9  | 4289.8  | 4359.0  | 4413.6  | 4409.4  |
| 42.5° | 4806.0  | 4782.9  | 4717.9  | 4680.1  | 4657.0  | 4644.4  | 4631.8  | 4661.2  | 4738.9  | 4797.6  | 4843.8  |
| 45°   | 5299.2  | 5290.8  | 5209.0  | 5162.8  | 5112.4  | 5093.6  | 5089.4  | 5141.8  | 5236.3  | 5307.6  | 5313.9  |
| 47.5° | 5857.5  | 5838.6  | 5786.1  | 5737.9  | 5719.0  | 5695.9  | 5674.9  | 5714.8  | 5809.2  | 5859.6  | 5874.3  |
| 50°   | 6432.5  | 6436.7  | 6436.7  | 6428.3  | 6447.2  | 6451.4  | 6394.8  | 6409.4  | 6461.9  | 6457.7  | 6453.5  |
| 52.5° | 7089.4  | 7112.5  | 7221.6  | 7232.1  | 7322.4  | 7383.2  | 7280.4  | 7219.5  | 7200.7  | 7087.3  | 7095.7  |
| 55°   | 7861.7  | 7882.7  | 8046.4  | 8210.1  | 8453.6  | 8556.4  | 8340.3  | 8151.4  | 8017.1  | 7845.0  | 7853.4  |
| 57.5° | 8825.1  | 8835.5  | 8990.9  | 9305.7  | 9691.8  | 9933.2  | 9553.3  | 9179.7  | 8906.9  | 8743.2  | 8678.1  |
| 60°   | 9861.8  | 9872.3  | 10099.0 | 10483.0 | 11083.3 | 11377.1 | 10907.0 | 10296.2 | 9952.1  | 9702.3  | 9719.1  |
| 62.5° | 11106.3 | 11148.3 | 11351.9 | 11880.8 | 12609.0 | 12938.5 | 12315.2 | 11498.8 | 11032.9 | 10722.3 | 10734.9 |
| 65°   | 12439.0 | 12510.4 | 12732.8 | 13314.2 | 13985.8 | 14340.4 | 13576.5 | 12634.2 | 12055.0 | 11675.1 | 11715.0 |
| 67.5° | 13303.7 | 13366.7 | 13687.8 | 14330.0 | 15167.3 | 15461.2 | 14474.8 | 13377.1 | 12653.1 | 12199.8 | 12115.8 |
| 70°   | 13083.3 | 13135.8 | 13563.9 | 14474.8 | 15715.1 | 16086.6 | 14688.8 | 13268.0 | 12415.9 | 11893.4 | 11859.8 |
| 72.5° | 11549.2 | 11440.0 | 12065.5 | 13372.9 | 15089.7 | 15713.0 | 14015.2 | 12117.9 | 11045.5 | 10508.2 | 10445.3 |
| 75°   | 7654.0  | 7891.1  | 8814.6  | 10355.0 | 12766.4 | 13538.7 | 11962.6 | 9729.6  | 8380.1  | 7933.1  | 7863.8  |
| 77.5° | 2558.3  | 2740.9  | 3561.5  | 5870.1  | 8703.3  | 9863.9  | 8715.9  | 6363.3  | 4501.7  | 3626.6  | 3643.4  |
| 80°   | 677.9   | 669.5   | 866.8   | 1613.9  | 3760.9  | 5712.7  | 4377.9  | 2155.4  | 1179.5  | 854.2   | 810.1   |
| 82.5° | 243.4   | 272.8   | 350.5   | 447.0   | 996.9   | 1775.5  | 1252.9  | 604.4   | 442.8   | 327.4   | 316.9   |
| 85°   | 107.0   | 104.9   | 151.1   | 178.4   | 249.7   | 331.6   | 293.8   | 256.0   | 224.6   | 149.0   | 138.5   |
| 87.5° | 23.1    | 23.1    | 35.7    | 27.3    | 44.1    | 44.1    | 54.6    | 65.1    | 67.2    | 44.1    | 35.7    |
| 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)