

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: P456949

Luminaire Tested: **GLAN-SA8B-730-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456949  
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-SA8B-730-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43796 lumens  
Efficiency: N/A  
Efficacy: 134.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 325  
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

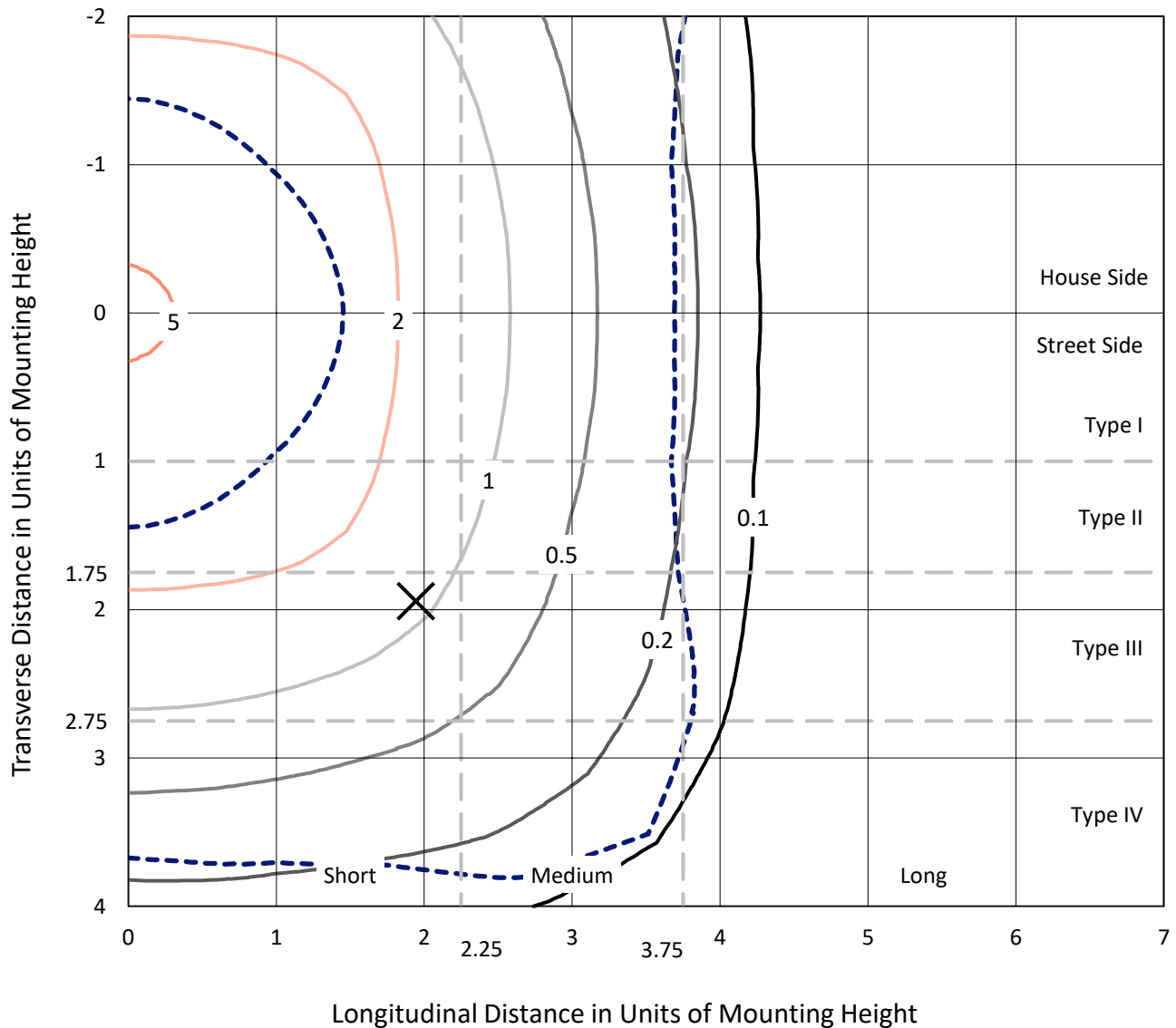


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

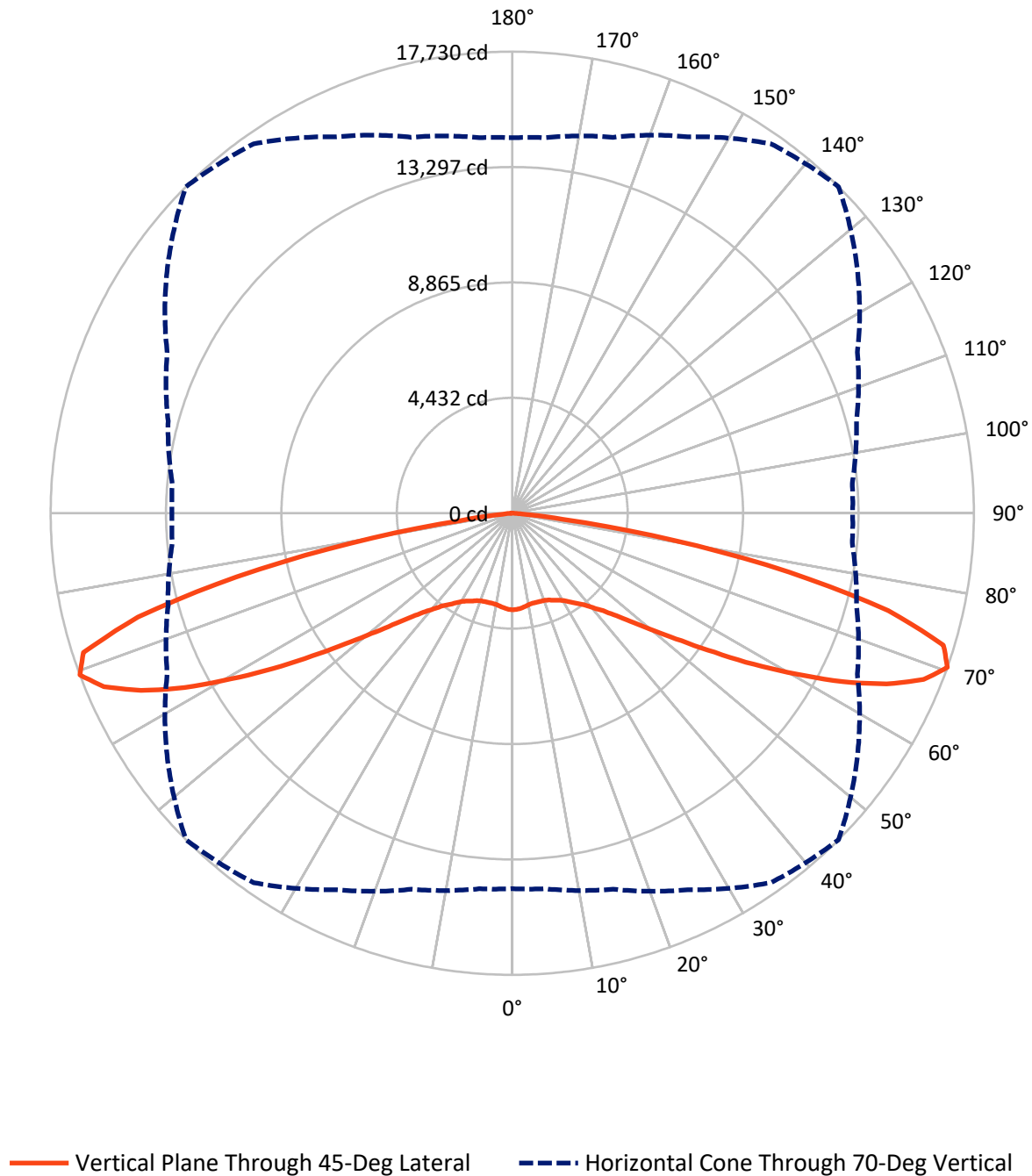


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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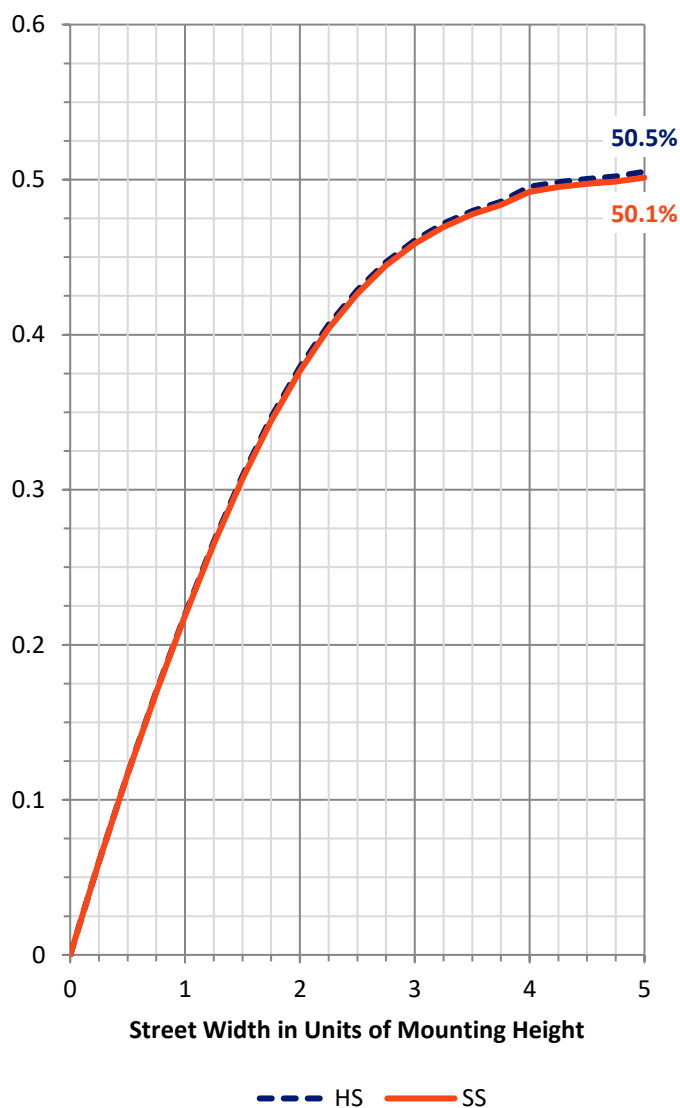
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 21898.0  | 0.0    | 21898.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 21898.0  | 0.0    | 21898.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 43796.0  | 0.0    | 43796.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 346.8   | 0.8       |
| 10°-20°   | 1015.1  | 2.3       |
| 20°-30°   | 1729.6  | 3.9       |
| 30°-40°   | 2680.8  | 6.1       |
| 40°-50°   | 4512.2  | 10.3      |
| 50°-60°   | 8209.7  | 18.7      |
| 60°-70°   | 13898.9 | 31.7      |
| 70°-80°   | 10758.3 | 24.6      |
| 80°-90°   | 644.7   | 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°    | 43796.0 | 100.0     |
| 0°-180°   | 43796.0 | 100.0     |

**Coefficient of Utilization**



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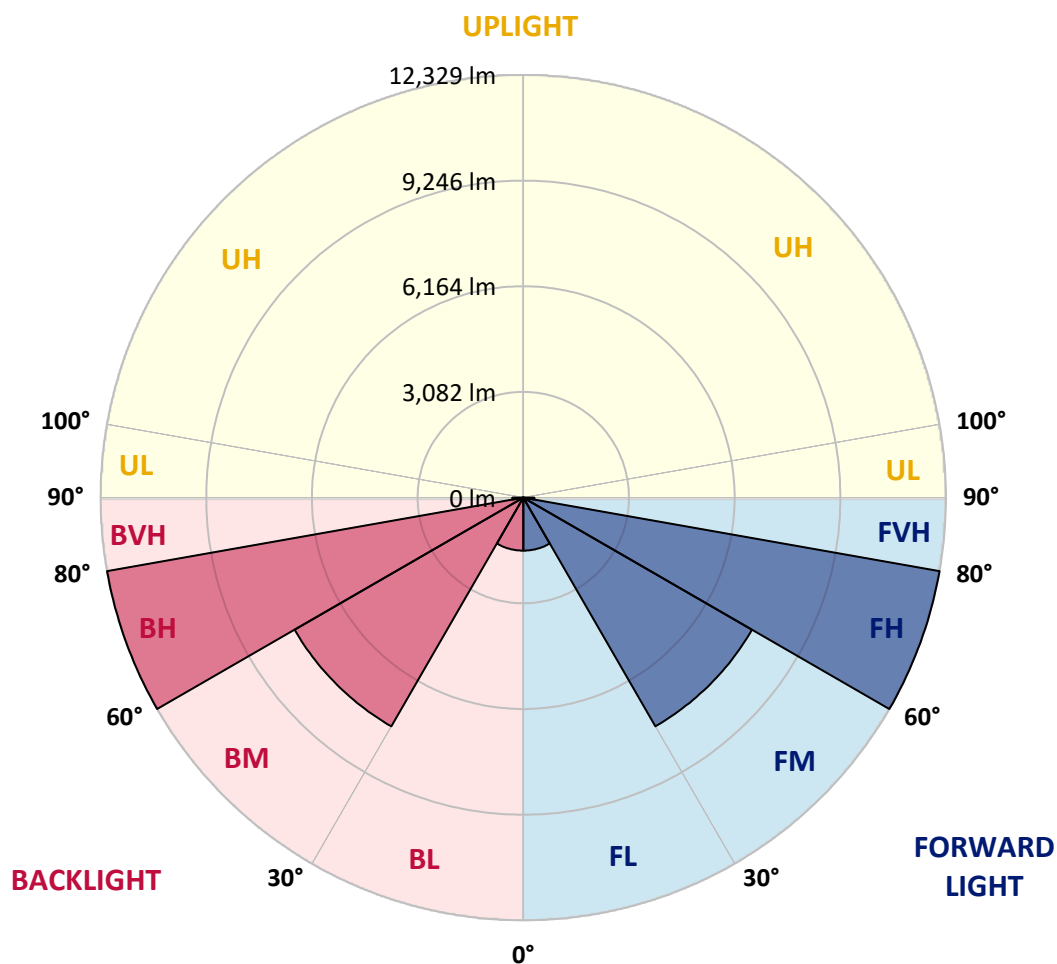
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 1545.7  | 3.5       |                         |      |        |
| FM   | (30°-60°)   | 7701.4  | 17.6      |                         |      |        |
| FH   | (60°-80°)   | 12328.6 | 28.1      |                         |      | G5     |
| FVH  | (80°-90°)   | 322.3   | 0.7       |                         |      | G3/500 |
| BL   | (0°-30°)    | 1545.7  | 3.5       | B3/2500                 |      |        |
| BM   | (30°-60°)   | 7701.4  | 17.6      | B4/8500                 |      |        |
| BH   | (60°-80°)   | 12328.6 | 28.1      | B5                      |      | G5     |
| BVH  | (80°-90°)   | 322.3   | 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-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3707.9  | 3707.9  | 3707.9  | 3707.9  | 3707.9  | 3707.9  | 3707.9  | 3707.9  | 3707.9  | 3707.9  | 3707.9  |
| 2.5°  | 3698.6  | 3700.9  | 3700.9  | 3696.3  | 3694.0  | 3694.0  | 3691.7  | 3691.7  | 3698.6  | 3700.9  | 3703.2  |
| 5°    | 3666.2  | 3666.2  | 3666.2  | 3663.9  | 3659.3  | 3659.3  | 3654.7  | 3654.7  | 3657.0  | 3663.9  | 3659.3  |
| 7.5°  | 3622.3  | 3626.9  | 3626.9  | 3617.7  | 3610.7  | 3610.7  | 3608.4  | 3610.7  | 3613.0  | 3620.0  | 3617.7  |
| 10°   | 3608.4  | 3610.7  | 3599.2  | 3583.0  | 3571.4  | 3564.5  | 3566.8  | 3571.4  | 3583.0  | 3587.6  | 3589.9  |
| 12.5° | 3617.7  | 3617.7  | 3596.8  | 3573.7  | 3552.9  | 3543.6  | 3541.3  | 3557.5  | 3578.3  | 3592.2  | 3596.8  |
| 15°   | 3629.2  | 3624.6  | 3599.2  | 3569.1  | 3548.3  | 3546.0  | 3543.6  | 3555.2  | 3585.3  | 3613.0  | 3615.3  |
| 17.5° | 3636.2  | 3633.8  | 3601.5  | 3564.5  | 3552.9  | 3552.9  | 3550.6  | 3559.8  | 3592.2  | 3626.9  | 3629.2  |
| 20°   | 3659.3  | 3652.4  | 3615.3  | 3576.0  | 3566.8  | 3571.4  | 3564.5  | 3576.0  | 3610.7  | 3652.4  | 3661.6  |
| 22.5° | 3705.6  | 3698.6  | 3661.6  | 3622.3  | 3617.7  | 3617.7  | 3615.3  | 3626.9  | 3663.9  | 3707.9  | 3714.8  |
| 25°   | 3761.1  | 3754.1  | 3719.4  | 3691.7  | 3696.3  | 3705.6  | 3700.9  | 3703.2  | 3733.3  | 3770.3  | 3781.9  |
| 27.5° | 3835.1  | 3823.5  | 3793.5  | 3770.3  | 3784.2  | 3784.2  | 3784.2  | 3781.9  | 3800.4  | 3835.1  | 3846.7  |
| 30°   | 3925.3  | 3920.7  | 3888.3  | 3886.0  | 3897.5  | 3886.0  | 3886.0  | 3888.3  | 3890.6  | 3923.0  | 3934.5  |
| 32.5° | 4043.3  | 4034.0  | 4017.8  | 4013.2  | 4045.6  | 4054.8  | 4022.4  | 3992.4  | 4008.6  | 4041.0  | 4047.9  |
| 35°   | 4237.6  | 4223.7  | 4200.6  | 4175.1  | 4200.6  | 4244.5  | 4175.1  | 4152.0  | 4193.6  | 4237.6  | 4242.2  |
| 37.5° | 4501.3  | 4494.3  | 4457.3  | 4411.0  | 4408.7  | 4455.0  | 4383.3  | 4381.0  | 4459.6  | 4512.8  | 4519.8  |
| 40°   | 4832.0  | 4839.0  | 4792.7  | 4748.8  | 4725.6  | 4762.6  | 4707.1  | 4727.9  | 4804.3  | 4864.4  | 4859.8  |
| 42.5° | 5297.0  | 5271.5  | 5199.8  | 5158.2  | 5132.7  | 5118.8  | 5105.0  | 5137.4  | 5222.9  | 5287.7  | 5338.6  |
| 45°   | 5840.5  | 5831.3  | 5741.1  | 5690.2  | 5634.7  | 5613.8  | 5609.2  | 5667.0  | 5771.1  | 5849.8  | 5856.7  |
| 47.5° | 6455.8  | 6435.0  | 6377.2  | 6324.0  | 6303.1  | 6277.7  | 6254.6  | 6298.5  | 6402.6  | 6458.1  | 6474.3  |
| 50°   | 7089.6  | 7094.2  | 7094.2  | 7085.0  | 7105.8  | 7110.4  | 7048.0  | 7064.1  | 7122.0  | 7117.3  | 7112.7  |
| 52.5° | 7813.6  | 7839.0  | 7959.3  | 7970.9  | 8070.3  | 8137.4  | 8024.1  | 7957.0  | 7936.2  | 7811.3  | 7820.5  |
| 55°   | 8664.8  | 8687.9  | 8868.3  | 9048.8  | 9317.1  | 9430.4  | 9192.2  | 8984.0  | 8836.0  | 8646.3  | 8655.5  |
| 57.5° | 9726.5  | 9738.1  | 9909.2  | 10256.2 | 10681.8 | 10947.8 | 10529.1 | 10117.4 | 9816.7  | 9636.3  | 9564.6  |
| 60°   | 10869.2 | 10880.7 | 11130.5 | 11553.8 | 12215.4 | 12539.2 | 12021.1 | 11348.0 | 10968.6 | 10693.4 | 10711.9 |
| 62.5° | 12240.8 | 12287.1 | 12511.5 | 13094.3 | 13897.0 | 14260.1 | 13573.2 | 12673.4 | 12159.9 | 11817.5 | 11831.4 |
| 65°   | 13709.6 | 13788.3 | 14033.5 | 14674.2 | 15414.4 | 15805.3 | 14963.3 | 13924.7 | 13286.3 | 12867.7 | 12911.6 |
| 67.5° | 14662.6 | 14732.0 | 15085.9 | 15793.7 | 16716.6 | 17040.5 | 15953.3 | 14743.6 | 13945.6 | 13445.9 | 13353.4 |
| 70°   | 14419.7 | 14477.6 | 14949.4 | 15953.3 | 17320.3 | 17729.8 | 16189.2 | 14623.3 | 13684.2 | 13108.2 | 13071.2 |
| 72.5° | 12728.9 | 12608.6 | 13297.9 | 14738.9 | 16631.0 | 17318.0 | 15446.8 | 13355.7 | 12173.7 | 11581.6 | 11512.2 |
| 75°   | 8435.8  | 8697.2  | 9714.9  | 11412.7 | 14070.5 | 14921.7 | 13184.6 | 10723.4 | 9236.1  | 8743.4  | 8667.1  |
| 77.5° | 2819.6  | 3020.9  | 3925.3  | 6469.7  | 9592.3  | 10871.5 | 9606.2  | 7013.3  | 4961.6  | 3997.0  | 4015.5  |
| 80°   | 747.1   | 737.9   | 955.3   | 1778.8  | 4145.0  | 6296.2  | 4825.1  | 2375.5  | 1300.0  | 941.4   | 892.8   |
| 82.5° | 268.3   | 300.7   | 386.3   | 492.7   | 1098.7  | 1956.9  | 1380.9  | 666.2   | 488.1   | 360.8   | 349.3   |
| 85°   | 118.0   | 115.7   | 166.5   | 196.6   | 275.3   | 365.5   | 323.8   | 282.2   | 247.5   | 164.2   | 152.7   |
| 87.5° | 25.4    | 25.4    | 39.3    | 30.1    | 48.6    | 48.6    | 60.1    | 71.7    | 74.0    | 48.6    | 39.3    |
| 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)