

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: P533083

Luminaire Tested: **GLAN-SA8C-730-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533083  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8C-730-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31029 lumens  
Efficiency: N/A  
Efficacy: 72.3 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): 429  
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



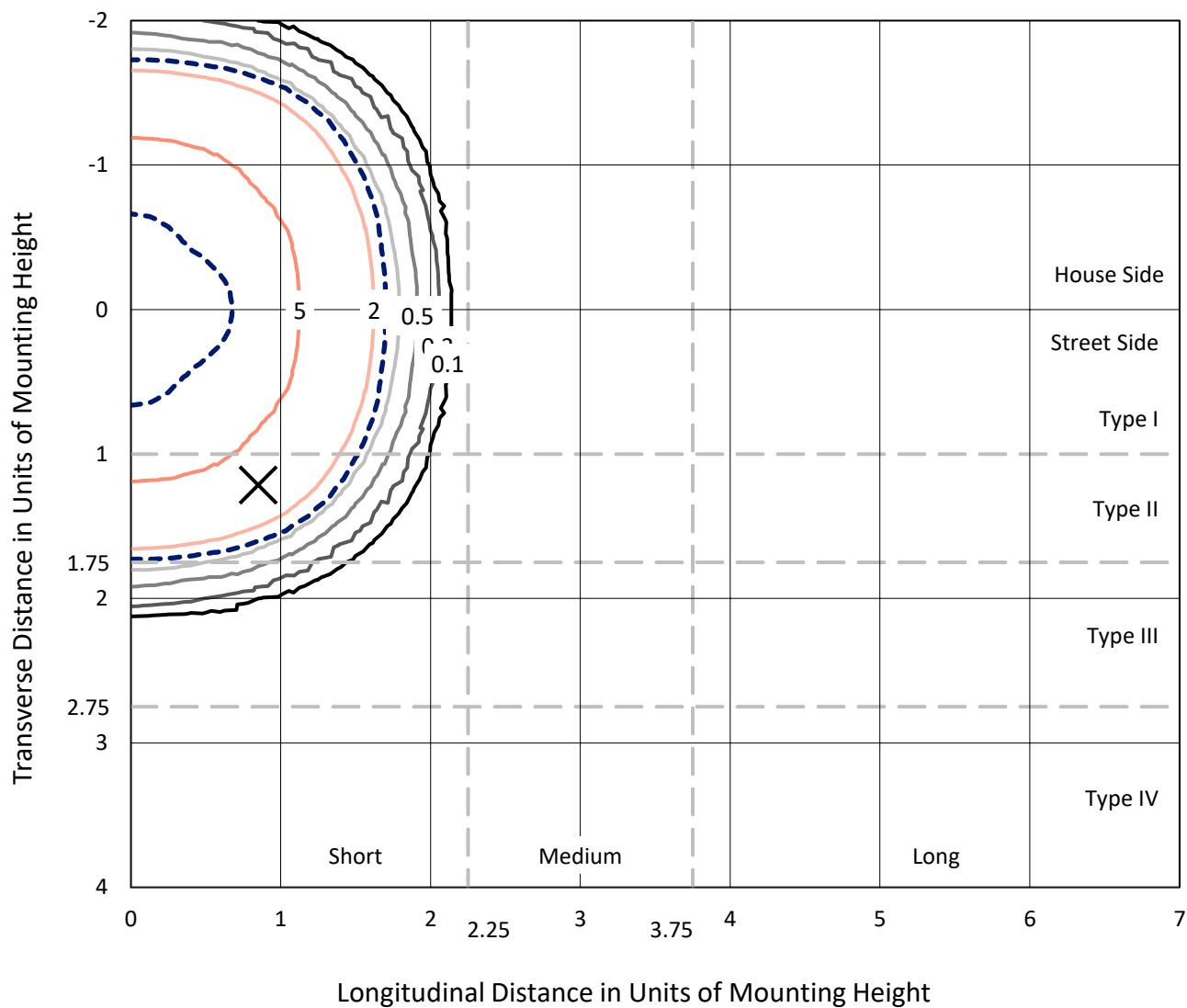
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

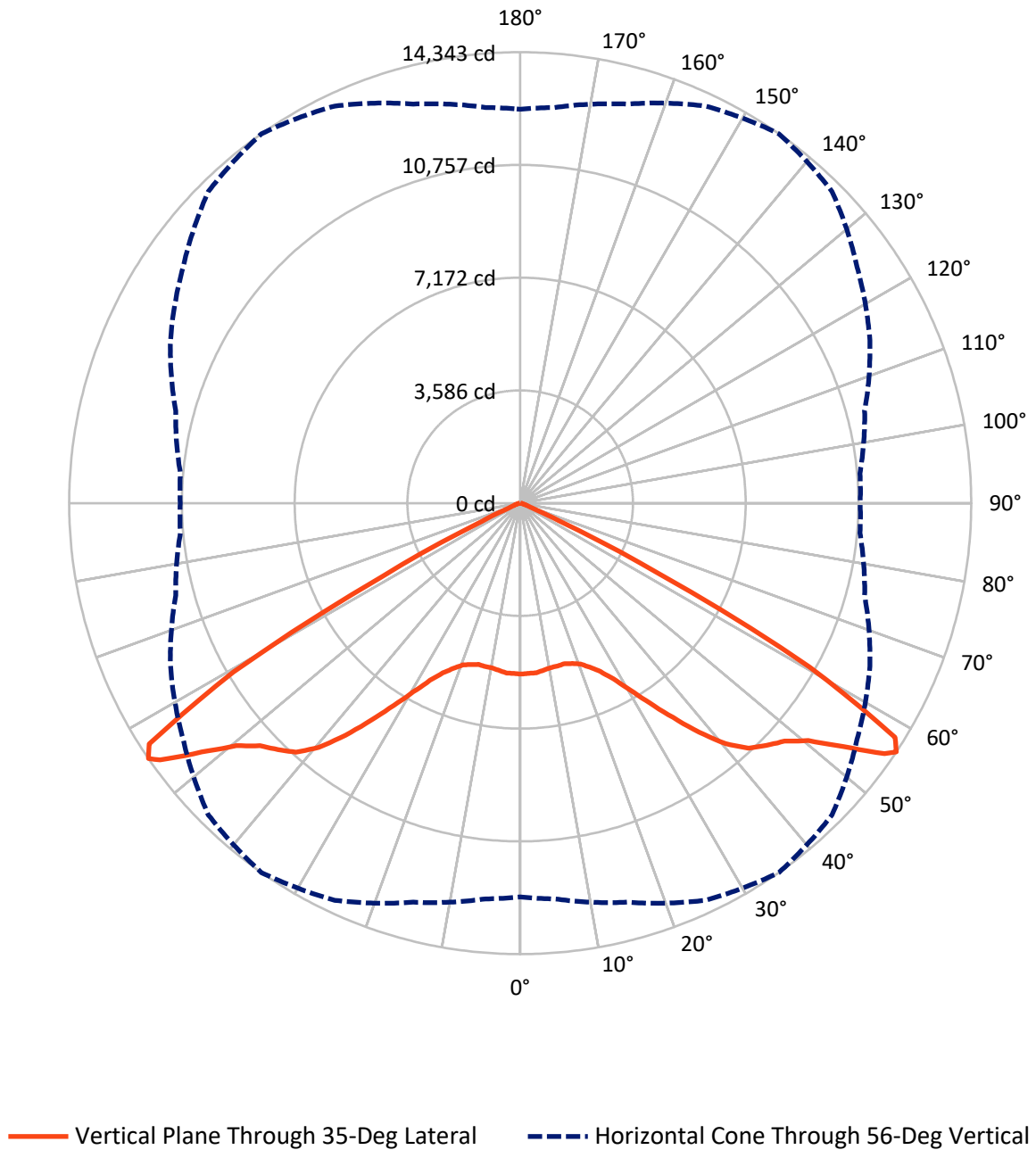
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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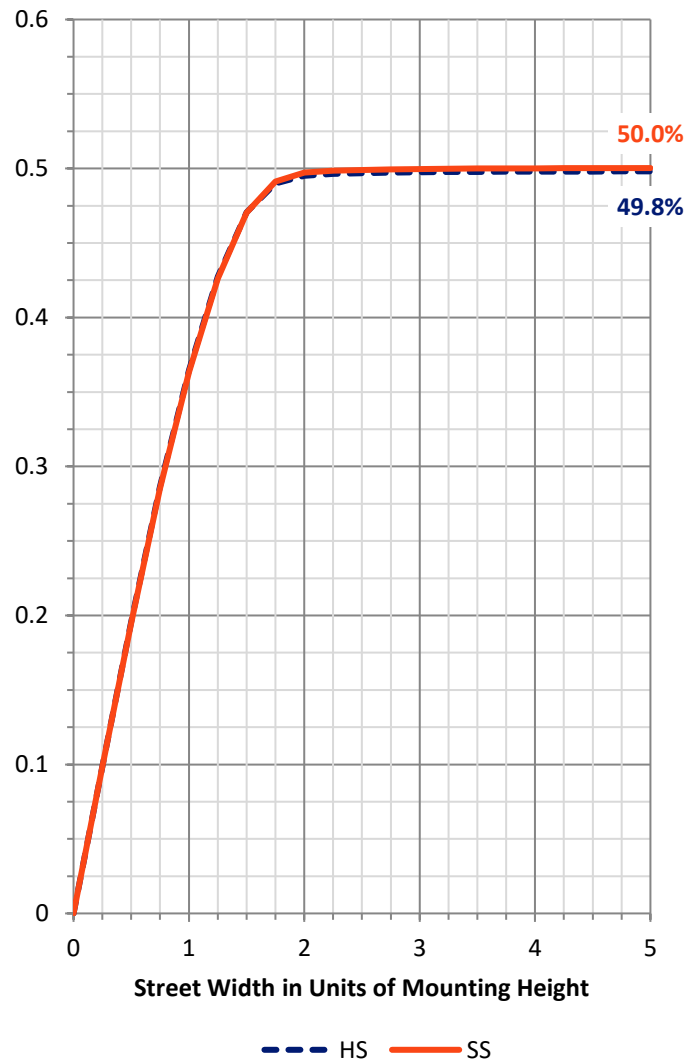
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15514.5  | 0.0    | 15514.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 15514.5  | 0.0    | 15514.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 31029.0  | 0.0    | 31029.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 511.0   | 1.6       |
| 10°-20°   | 1491.8  | 4.8       |
| 20°-30°   | 2701.5  | 8.7       |
| 30°-40°   | 5009.6  | 16.1      |
| 40°-50°   | 8222.9  | 26.5      |
| 50°-60°   | 10593.5 | 34.1      |
| 60°-70°   | 2334.7  | 7.5       |
| 70°-80°   | 135.5   | 0.4       |
| 80°-90°   | 28.5    | 0.1       |
| 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°    | 31029.0 | 100.0     |
| 0°-180°   | 31029.0 | 100.0     |

**Coefficient of Utilization**



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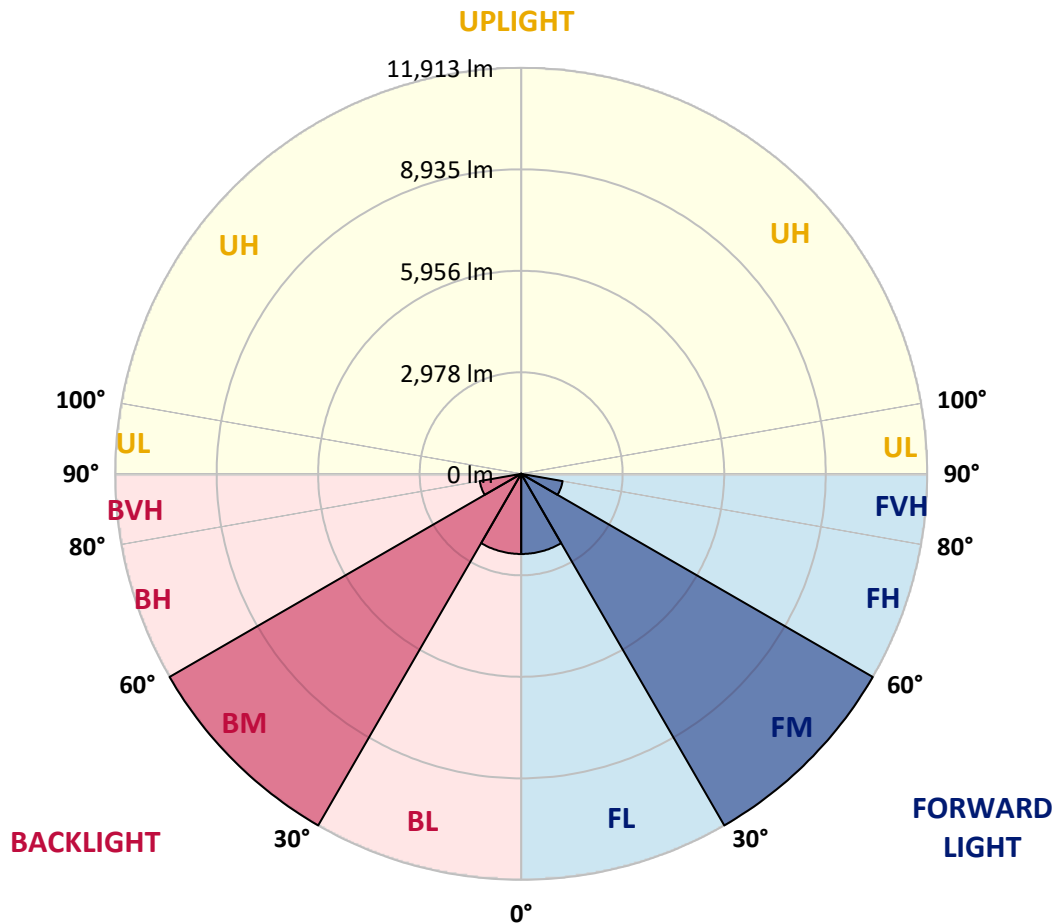
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2352.2  | 7.6       |                         |      |         |
| FM   | (30°-60°)   | 11913.0 | 38.4      |                         |      |         |
| FH   | (60°-80°)   | 1235.1  | 4.0       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 14.3    | 0.0       |                         |      | G1/100  |
| BL   | (0°-30°)    | 2352.2  | 7.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 11913.0 | 38.4      | B5                      |      |         |
| BH   | (60°-80°)   | 1235.1  | 4.0       | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 14.3    | 0.0       |                         |      | 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°    | 5436.9  | 5436.9  | 5436.9  | 5436.9  | 5436.9  | 5436.9  | 5436.9  | 5436.9  | 5436.9  | 5436.9  | 5436.9  |
| 2.5°  | 5448.2  | 5448.2  | 5453.8  | 5459.4  | 5420.1  | 5403.2  | 5408.8  | 5397.6  | 5392.0  | 5408.8  | 5408.8  |
| 5°    | 5431.3  | 5431.3  | 5414.5  | 5420.1  | 5420.1  | 5369.5  | 5369.5  | 5380.7  | 5380.7  | 5347.0  | 5335.7  |
| 7.5°  | 5386.3  | 5375.1  | 5352.6  | 5380.7  | 5363.9  | 5363.9  | 5324.5  | 5296.4  | 5285.1  | 5307.6  | 5285.1  |
| 10°   | 5290.8  | 5296.4  | 5318.9  | 5330.1  | 5318.9  | 5352.6  | 5285.1  | 5245.8  | 5206.4  | 5189.6  | 5189.6  |
| 12.5° | 5245.8  | 5279.5  | 5245.8  | 5273.9  | 5313.3  | 5285.1  | 5245.8  | 5217.7  | 5161.4  | 5139.0  | 5139.0  |
| 15°   | 5240.2  | 5262.7  | 5273.9  | 5313.3  | 5296.4  | 5307.6  | 5228.9  | 5195.2  | 5110.8  | 5071.5  | 5054.6  |
| 17.5° | 5234.5  | 5262.7  | 5279.5  | 5352.6  | 5363.9  | 5369.5  | 5307.6  | 5206.4  | 5133.3  | 5094.0  | 5054.6  |
| 20°   | 5296.4  | 5307.6  | 5341.4  | 5414.5  | 5459.4  | 5538.2  | 5425.7  | 5318.9  | 5161.4  | 5116.5  | 5099.6  |
| 22.5° | 5375.1  | 5431.3  | 5465.1  | 5543.8  | 5661.8  | 5729.3  | 5583.1  | 5448.2  | 5285.1  | 5228.9  | 5161.4  |
| 25°   | 5628.1  | 5616.9  | 5673.1  | 5836.1  | 5931.7  | 5982.3  | 5864.3  | 5667.5  | 5453.8  | 5386.3  | 5397.6  |
| 27.5° | 5943.0  | 5954.2  | 6004.8  | 6184.7  | 6325.3  | 6404.0  | 6263.5  | 6004.8  | 5796.8  | 5684.3  | 5673.1  |
| 30°   | 6353.4  | 6342.2  | 6398.4  | 6640.2  | 6893.2  | 7011.2  | 6763.9  | 6460.2  | 6257.8  | 6111.6  | 6145.4  |
| 32.5° | 6786.3  | 6792.0  | 6949.4  | 7168.7  | 7579.1  | 7809.6  | 7410.4  | 7039.4  | 6735.7  | 6634.5  | 6583.9  |
| 35°   | 7427.3  | 7455.4  | 7579.1  | 7916.5  | 8371.9  | 8669.9  | 8231.3  | 7787.1  | 7438.6  | 7253.0  | 7275.5  |
| 37.5° | 8220.1  | 8192.0  | 8400.0  | 8765.5  | 9243.4  | 9462.7  | 9091.6  | 8585.5  | 8231.3  | 8107.6  | 8186.3  |
| 40°   | 9063.5  | 9091.6  | 9198.4  | 9530.1  | 10064.3 | 10210.4 | 9659.4  | 9383.9  | 9074.7  | 9012.9  | 9108.4  |
| 42.5° | 9906.8  | 9890.0  | 9968.7  | 10266.7 | 10654.6 | 10553.4 | 10227.3 | 10064.3 | 9845.0  | 9721.3  | 9850.6  |
| 45°   | 10525.3 | 10497.2 | 10643.4 | 10845.8 | 10986.3 | 10795.2 | 10649.0 | 10592.8 | 10480.3 | 10345.4 | 10463.5 |
| 47.5° | 11126.9 | 11104.4 | 11245.0 | 11301.2 | 11312.5 | 11059.4 | 11087.6 | 11188.8 | 10907.6 | 10626.5 | 10761.4 |
| 50°   | 11638.6 | 11599.2 | 11773.5 | 11897.2 | 11869.1 | 11464.3 | 11565.5 | 11464.3 | 11025.7 | 10694.0 | 10643.4 |
| 52.5° | 12493.2 | 12510.0 | 12695.6 | 12920.5 | 12853.0 | 12515.7 | 12369.5 | 11908.4 | 11346.2 | 11048.2 | 10873.9 |
| 55°   | 13032.9 | 12948.6 | 13269.1 | 13983.1 | 14061.8 | 13713.3 | 13066.7 | 12386.3 | 11543.0 | 11177.5 | 11132.5 |
| 56°   | 12526.9 | 12633.7 | 13139.8 | 13938.2 | 14343.0 | 14022.5 | 13083.5 | 12268.3 | 11340.6 | 10845.8 | 10812.0 |
| 57.5° | 11239.4 | 11183.1 | 11869.1 | 12959.8 | 14061.8 | 13926.9 | 12622.5 | 11424.9 | 10345.4 | 9788.8  | 9721.3  |
| 60°   | 6994.4  | 7157.4  | 7759.0  | 9108.4  | 10581.5 | 10649.0 | 9355.8  | 8326.9  | 7067.5  | 6572.7  | 6690.8  |
| 62.5° | 2738.2  | 2597.6  | 2974.3  | 3980.7  | 4992.8  | 5217.7  | 4728.5  | 3930.1  | 3227.3  | 2738.2  | 2704.4  |
| 65°   | 635.3   | 618.5   | 697.2   | 961.4   | 1343.8  | 1557.4  | 1478.7  | 1062.7  | 781.5   | 742.2   | 685.9   |
| 67.5° | 359.8   | 359.8   | 343.0   | 343.0   | 376.7   | 399.2   | 382.3   | 376.7   | 393.6   | 410.4   | 404.8   |
| 70°   | 253.0   | 247.4   | 236.1   | 241.8   | 230.5   | 230.5   | 247.4   | 275.5   | 298.0   | 298.0   | 303.6   |
| 72.5° | 151.8   | 151.8   | 151.8   | 168.7   | 168.7   | 168.7   | 185.5   | 208.0   | 213.7   | 208.0   | 202.4   |
| 75°   | 67.5    | 67.5    | 78.7    | 95.6    | 106.8   | 112.4   | 129.3   | 140.6   | 151.8   | 140.6   | 129.3   |
| 77.5° | 16.9    | 16.9    | 28.1    | 39.4    | 50.6    | 61.8    | 84.3    | 101.2   | 106.8   | 101.2   | 84.3    |
| 80°   | 5.6     | 5.6     | 11.2    | 28.1    | 50.6    | 61.8    | 84.3    | 90.0    | 95.6    | 84.3    | 67.5    |
| 82.5° | 5.6     | 5.6     | 11.2    | 28.1    | 39.4    | 50.6    | 67.5    | 78.7    | 84.3    | 73.1    | 67.5    |
| 85°   | 0.0     | 5.6     | 11.2    | 22.5    | 33.7    | 45.0    | 45.0    | 33.7    | 28.1    | 16.9    | 22.5    |
| 87.5° | 0.0     | 0.0     | 5.6     | 5.6     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 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)