

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: P456024

Luminaire Tested: **GLAN-SA7B-730-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456024  
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-SA7B-730-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37240 lumens  
Efficiency: N/A  
Efficacy: 130.2 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): 286  
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



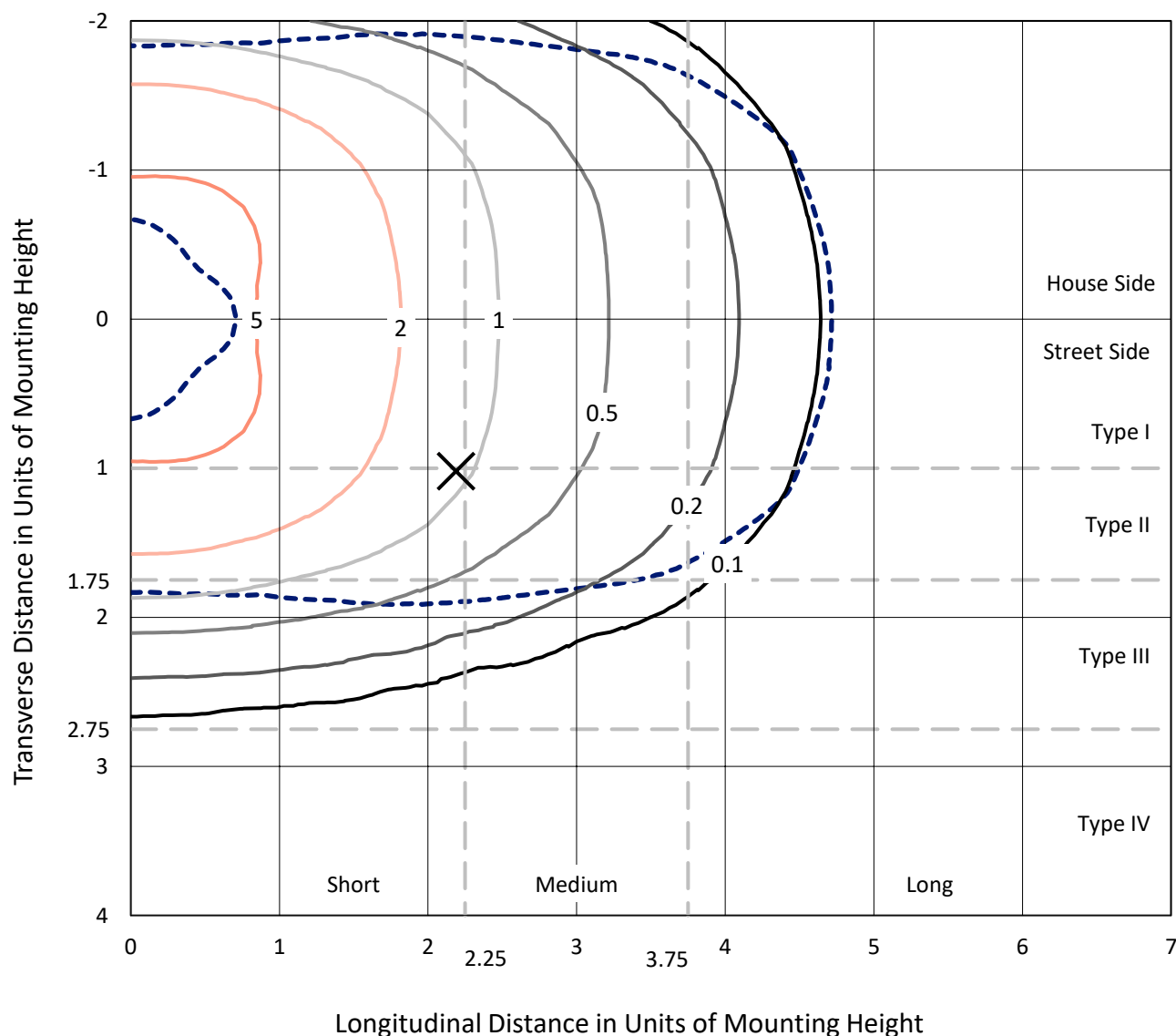
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

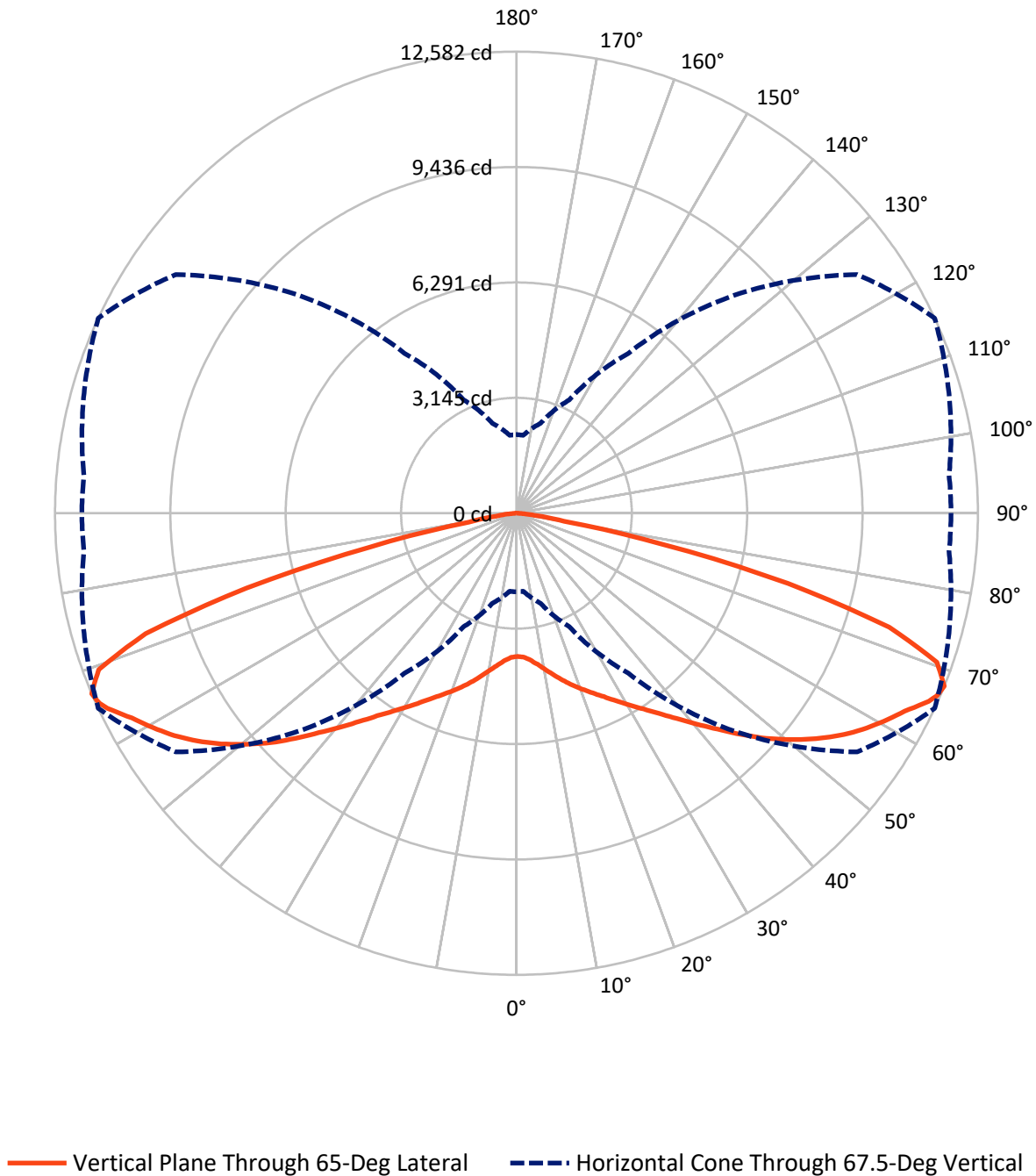


Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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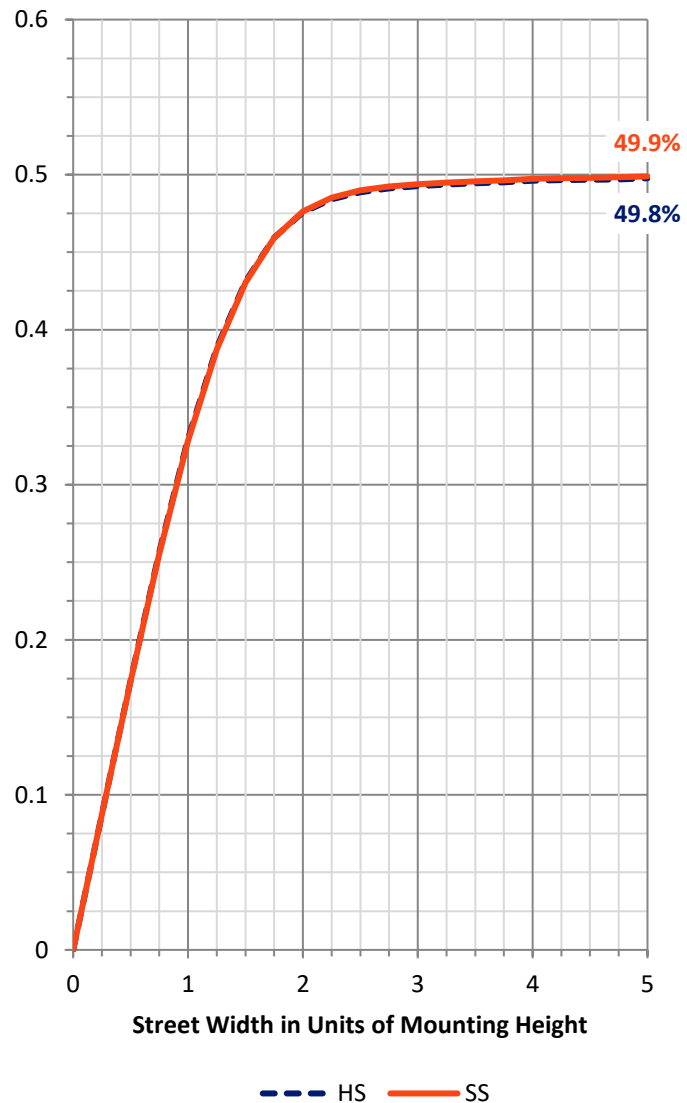
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 18620.0  | 0.0    | 18620.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 18620.0  | 0.0    | 18620.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 37240.0  | 0.0    | 37240.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 384.7   | 1.0       |
| 10°-20°   | 1287.6  | 3.5       |
| 20°-30°   | 2518.6  | 6.8       |
| 30°-40°   | 4283.7  | 11.5      |
| 40°-50°   | 6779.9  | 18.2      |
| 50°-60°   | 8990.0  | 24.1      |
| 60°-70°   | 8480.3  | 22.8      |
| 70°-80°   | 4192.2  | 11.3      |
| 80°-90°   | 323.1   | 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°    | 37240.0 | 100.0     |
| 0°-180°   | 37240.0 | 100.0     |

**Coefficient of Utilization**



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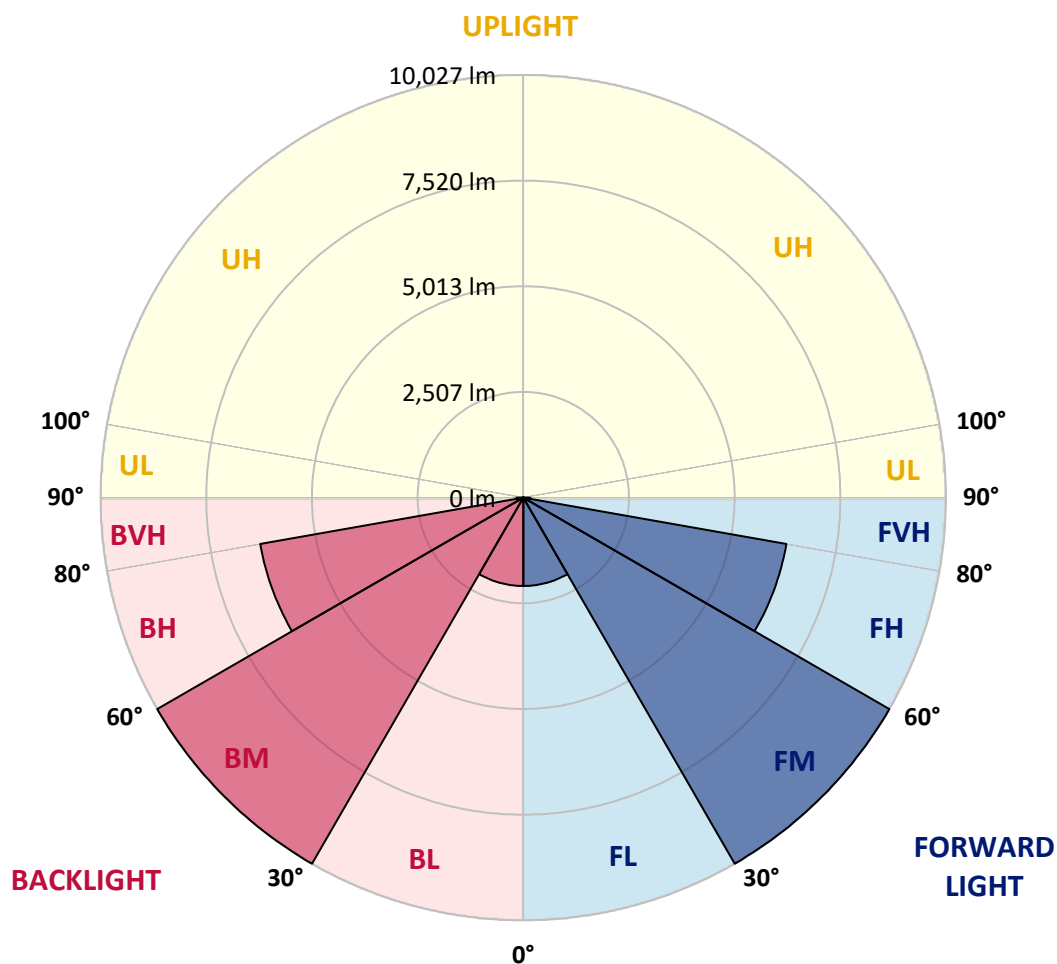
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2095.4  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 10026.8 | 26.9      |                         |      |         |
| FH   | (60°-80°)   | 6336.3  | 17.0      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 161.5   | 0.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 2095.4  | 5.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 10026.8 | 26.9      | B5                      |      |         |
| BH   | (60°-80°)   | 6336.3  | 17.0      | B5                      |      | G5      |
| BVH  | (80°-90°)   | 161.5   | 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°    | 3900.6 | 3900.6 | 3900.6 | 3900.6 | 3900.6  | 3900.6  | 3900.6  | 3900.6  | 3900.6  | 3900.6  | 3900.6  |
| 2.5°  | 3880.6 | 3884.6 | 3888.6 | 3894.6 | 3902.6  | 3914.5  | 3922.5  | 3928.5  | 3944.5  | 3946.5  | 3944.5  |
| 5°    | 3866.6 | 3870.6 | 3880.6 | 3898.6 | 3924.5  | 3960.4  | 3988.3  | 4022.3  | 4048.2  | 4066.2  | 4062.2  |
| 7.5°  | 3864.6 | 3872.6 | 3888.6 | 3926.5 | 3976.4  | 4038.2  | 4102.1  | 4159.9  | 4209.8  | 4249.7  | 4243.7  |
| 10°   | 3896.6 | 3906.5 | 3932.5 | 3988.3 | 4066.2  | 4155.9  | 4245.7  | 4331.5  | 4403.3  | 4455.2  | 4473.2  |
| 12.5° | 3950.4 | 3958.4 | 4006.3 | 4090.1 | 4201.8  | 4313.6  | 4415.3  | 4521.1  | 4620.8  | 4708.6  | 4708.6  |
| 15°   | 4044.2 | 4058.2 | 4118.0 | 4239.7 | 4377.4  | 4507.1  | 4610.8  | 4722.6  | 4830.3  | 4930.1  | 4960.0  |
| 17.5° | 4173.9 | 4193.9 | 4283.6 | 4439.3 | 4614.8  | 4734.5  | 4832.3  | 4924.1  | 5017.9  | 5113.6  | 5127.6  |
| 20°   | 4351.5 | 4371.4 | 4491.1 | 4678.7 | 4886.2  | 5029.8  | 5095.7  | 5117.6  | 5163.5  | 5255.3  | 5267.3  |
| 22.5° | 4592.9 | 4612.8 | 4746.5 | 4958.0 | 5189.4  | 5345.1  | 5373.0  | 5321.1  | 5309.2  | 5381.0  | 5389.0  |
| 25°   | 4866.2 | 4884.2 | 5037.8 | 5265.3 | 5504.7  | 5674.3  | 5666.3  | 5538.6  | 5466.8  | 5510.7  | 5522.6  |
| 27.5° | 5173.5 | 5199.4 | 5355.0 | 5590.5 | 5849.8  | 5999.5  | 5975.5  | 5790.0  | 5636.4  | 5628.4  | 5632.4  |
| 30°   | 5566.5 | 5594.5 | 5742.1 | 5967.6 | 6222.9  | 6360.6  | 6310.7  | 6061.3  | 5823.9  | 5744.1  | 5744.1  |
| 32.5° | 5981.5 | 6051.4 | 6201.0 | 6436.4 | 6635.9  | 6735.7  | 6659.9  | 6360.6  | 6045.4  | 5933.6  | 5927.7  |
| 35°   | 6522.2 | 6560.1 | 6707.8 | 6937.2 | 7086.9  | 7164.7  | 7019.0  | 6697.8  | 6334.7  | 6203.0  | 6185.0  |
| 37.5° | 7050.9 | 7082.9 | 7254.4 | 7473.9 | 7655.5  | 7651.5  | 7454.0  | 7098.8  | 6693.8  | 6546.2  | 6534.2  |
| 40°   | 7591.6 | 7625.5 | 7821.1 | 8022.6 | 8204.1  | 8188.2  | 7948.8  | 7551.7  | 7120.8  | 6955.2  | 6987.1  |
| 42.5° | 8060.5 | 8098.4 | 8319.9 | 8607.2 | 8770.8  | 8766.8  | 8489.5  | 8042.5  | 7593.6  | 7446.0  | 7473.9  |
| 45°   | 8487.5 | 8521.4 | 8778.8 | 9108.0 | 9347.4  | 9377.3  | 9074.0  | 8601.2  | 8140.3  | 7950.8  | 7958.7  |
| 47.5° | 8788.7 | 8852.6 | 9121.9 | 9499.0 | 9824.2  | 9930.0  | 9632.7  | 9169.8  | 8639.1  | 8441.6  | 8453.5  |
| 50°   | 9018.2 | 9058.1 | 9351.4 | 9780.3 | 10191.3 | 10410.8 | 10171.4 | 9696.5  | 9137.9  | 8928.4  | 8956.3  |
| 52.5° | 9046.1 | 9094.0 | 9413.2 | 9908.0 | 10434.8 | 10767.9 | 10650.2 | 10211.3 | 9646.7  | 9431.2  | 9491.0  |
| 55°   | 8818.7 | 8846.6 | 9227.7 | 9828.2 | 10530.5 | 11033.3 | 11063.2 | 10690.1 | 10131.5 | 9967.9  | 10007.8 |
| 57.5° | 8170.2 | 8242.1 | 8724.9 | 9455.1 | 10398.8 | 11175.0 | 11372.5 | 11125.1 | 10622.3 | 10460.7 | 10524.5 |
| 60°   | 7106.8 | 7178.6 | 7663.5 | 8589.2 | 9902.0  | 11109.1 | 11627.9 | 11510.1 | 11067.2 | 10937.5 | 10971.5 |
| 62.5° | 5568.5 | 5562.5 | 6163.1 | 7298.3 | 8914.4  | 10785.9 | 11817.4 | 11881.2 | 11506.2 | 11342.6 | 11394.4 |
| 65°   | 3609.3 | 3627.2 | 4207.8 | 5430.9 | 7424.0  | 9963.9  | 11859.3 | 12354.1 | 11937.1 | 11689.7 | 11727.6 |
| 66°   | 2903.0 | 2956.8 | 3449.7 | 4576.9 | 6663.9  | 9425.2  | 11733.6 | 12493.8 | 12068.8 | 11769.5 | 11787.5 |
| 67.5° | 2142.8 | 2132.8 | 2537.9 | 3407.8 | 5321.1  | 8401.7  | 11340.6 | 12581.6 | 12218.4 | 11841.3 | 11849.3 |
| 70°   | 1223.0 | 1221.0 | 1364.7 | 1871.5 | 3128.4  | 5915.7  | 9558.9  | 12160.6 | 12521.7 | 12100.7 | 12078.8 |
| 72.5° | 893.8  | 887.9  | 907.8  | 1033.5 | 1526.3  | 2986.8  | 6594.0  | 10628.3 | 12366.1 | 12058.8 | 11997.0 |
| 75°   | 750.2  | 746.2  | 742.2  | 758.2  | 855.9   | 1352.7  | 3499.5  | 7645.5  | 10730.0 | 11318.6 | 11254.8 |
| 77.5° | 612.5  | 612.5  | 614.5  | 610.5  | 614.5   | 712.3   | 1450.5  | 4098.1  | 6534.2  | 7294.3  | 7471.9  |
| 80°   | 478.8  | 476.8  | 510.8  | 496.8  | 464.9   | 456.9   | 642.4   | 1318.8  | 2168.8  | 2156.8  | 1779.7  |
| 82.5° | 353.1  | 329.2  | 389.1  | 379.1  | 343.2   | 291.3   | 375.1   | 562.6   | 724.2   | 470.9   | 349.2   |
| 85°   | 223.5  | 221.5  | 275.3  | 251.4  | 209.5   | 137.7   | 179.6   | 241.4   | 299.3   | 181.6   | 147.6   |
| 87.5° | 39.9   | 37.9   | 87.8   | 63.8   | 63.8    | 39.9    | 49.9    | 65.8    | 97.8    | 67.8    | 49.9    |
| 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)