

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: P532519

Luminaire Tested: **GLAN-SA7D-827-U-RW-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532519  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7D-827-U-RW-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25598 lumens  
Efficiency: N/A  
Efficacy: 59.1 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): 433  
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

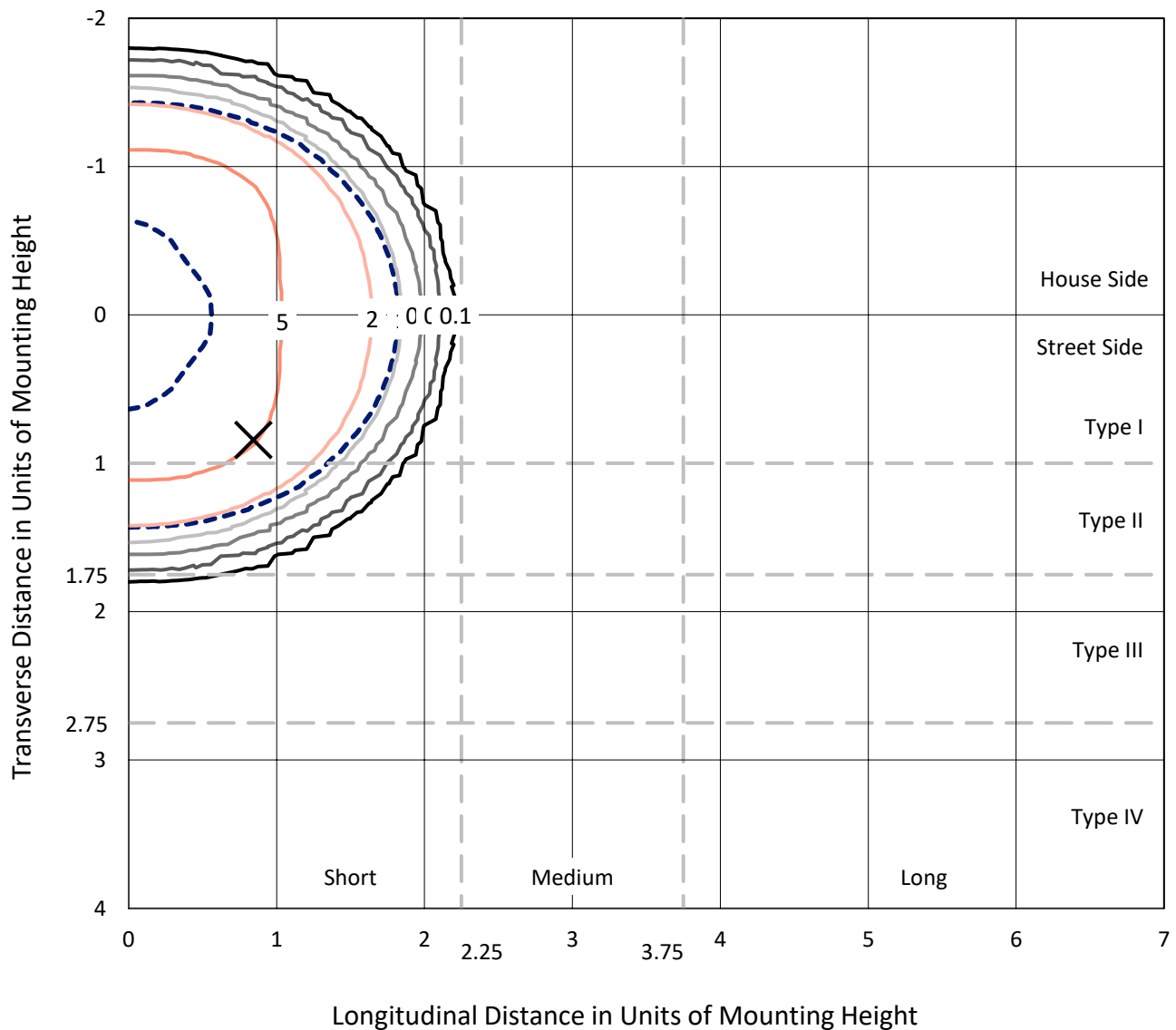


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

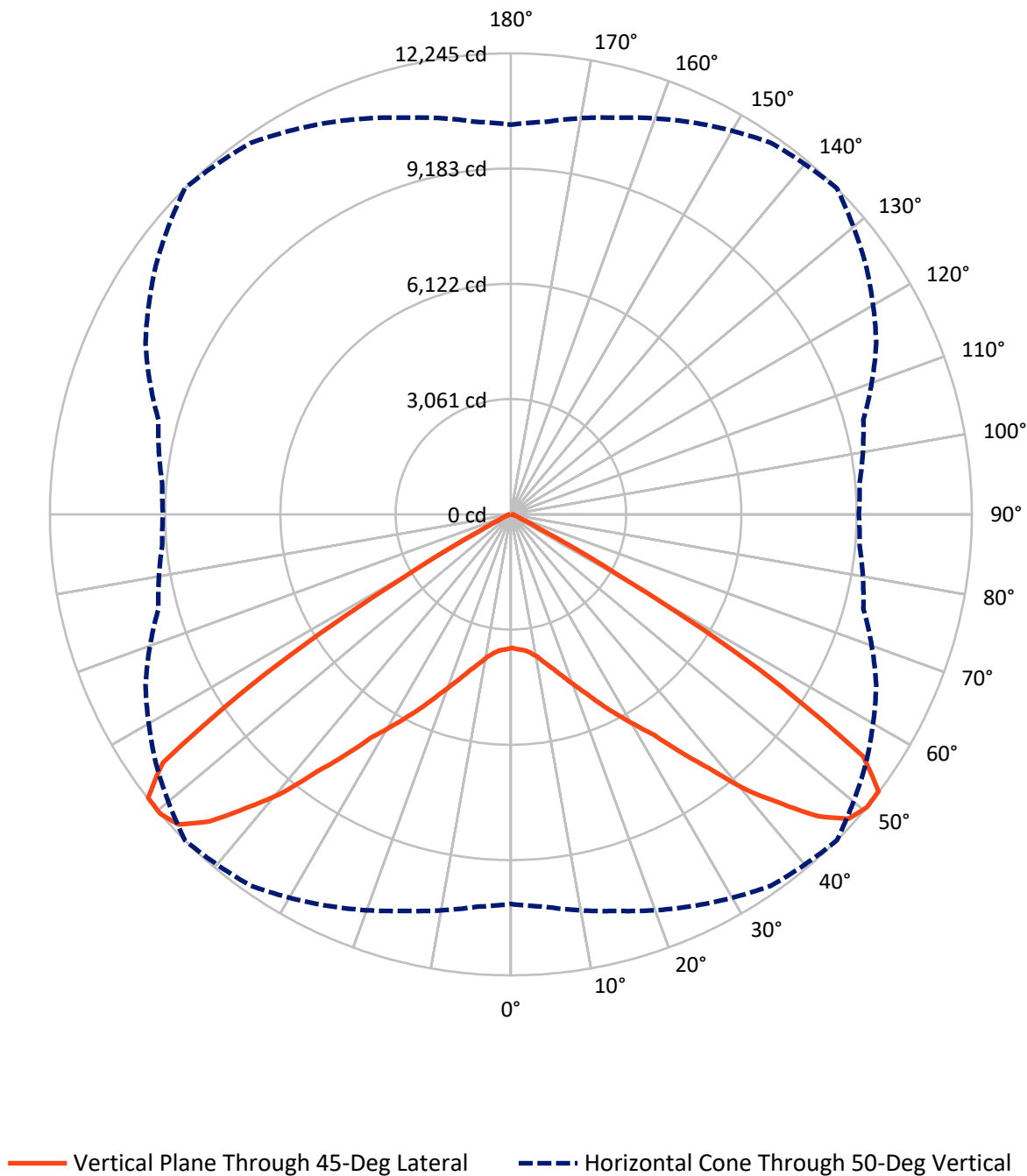


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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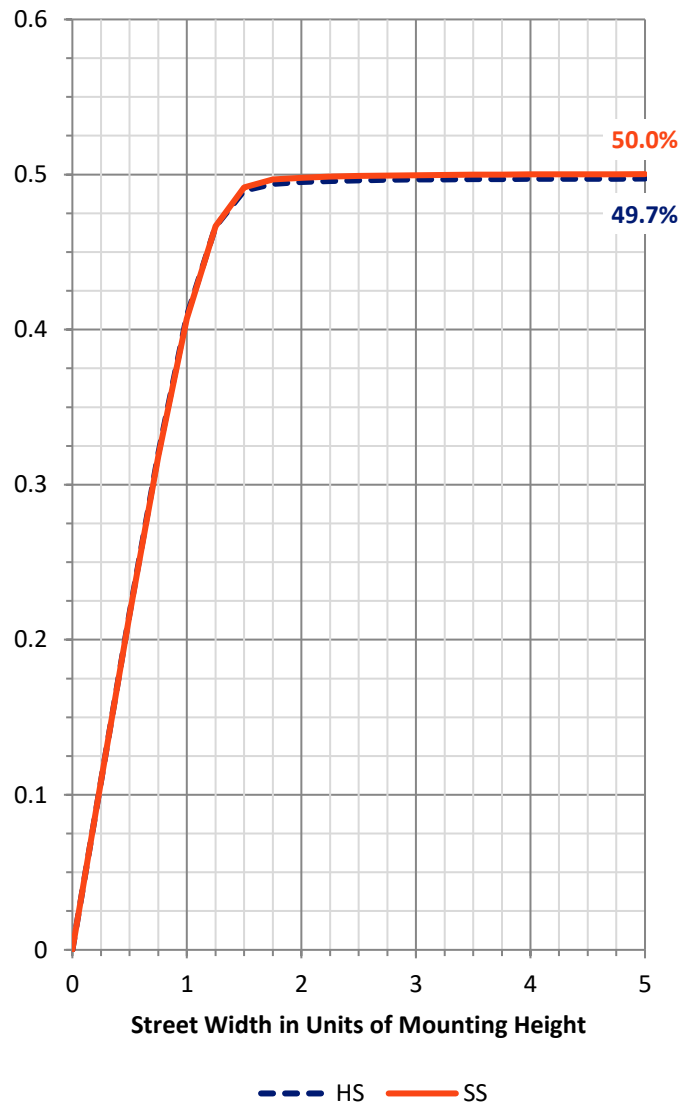
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12799.0  | 0.0    | 12799.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 12799.0  | 0.0    | 12799.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 25598.0  | 0.0    | 25598.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 353.1   | 1.4       |
| 10°-20°   | 1216.8  | 4.8       |
| 20°-30°   | 2485.3  | 9.7       |
| 30°-40°   | 4739.4  | 18.5      |
| 40°-50°   | 7986.6  | 31.2      |
| 50°-60°   | 7616.7  | 29.8      |
| 60°-70°   | 1063.3  | 4.2       |
| 70°-80°   | 101.7   | 0.4       |
| 80°-90°   | 35.1    | 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°    | 25598.0 | 100.0     |
| 0°-180°   | 25598.0 | 100.0     |

**Coefficient of Utilization**



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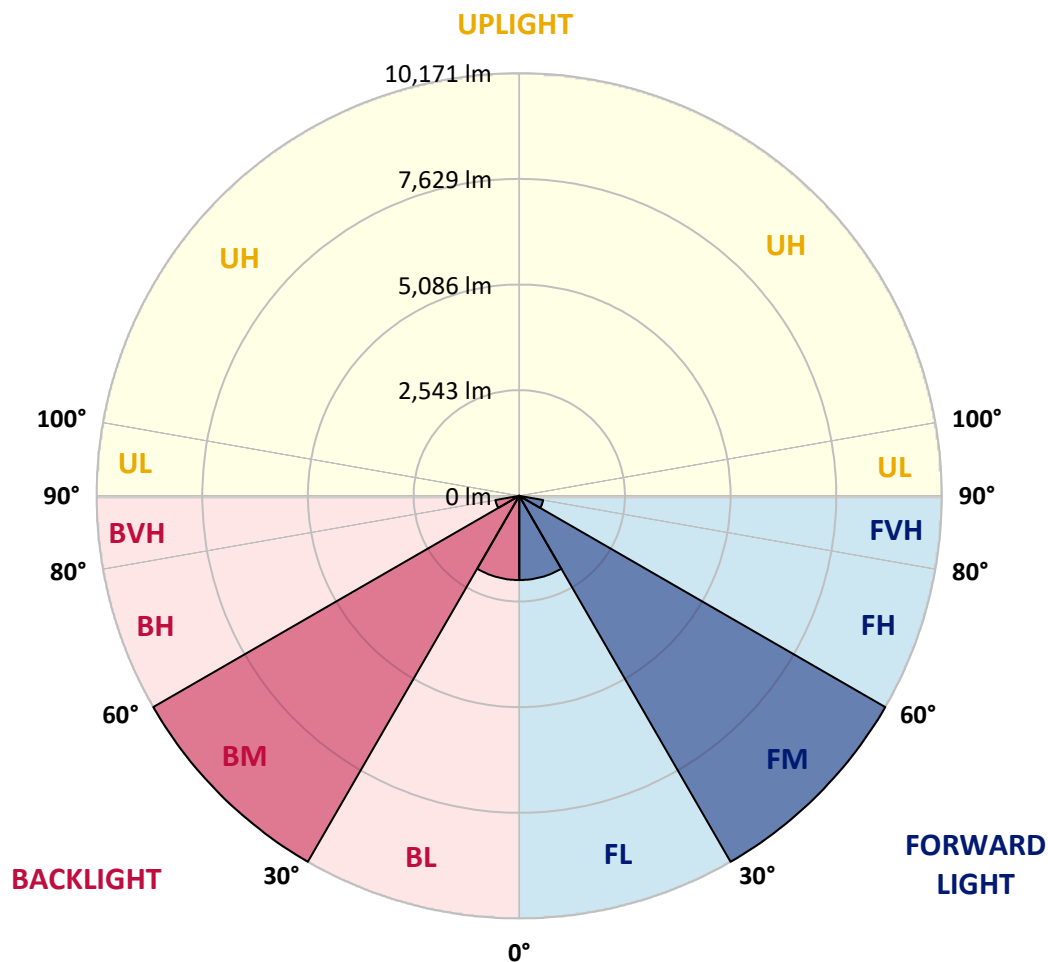
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 2027.6  | 7.9       |                         |      |        |
| FM   | (30°-60°)   | 10171.4 | 39.7      |                         |      |        |
| FH   | (60°-80°)   | 582.5   | 2.3       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 17.6    | 0.1       |                         |      | G1/100 |
| BL   | (0°-30°)    | 2027.6  | 7.9       | B3/2500                 |      |        |
| BM   | (30°-60°)   | 10171.4 | 39.7      | B5                      |      |        |
| BH   | (60°-80°)   | 582.5   | 2.3       | B2/1000                 |      | G0/660 |
| BVH  | (80°-90°)   | 17.6    | 0.1       |                         |      | 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°    | 3548.9  | 3548.9  | 3548.9  | 3548.9  | 3548.9  | 3548.9  | 3548.9  | 3548.9  | 3548.9 | 3548.9 | 3548.9 |
| 2.5°  | 3536.0  | 3536.0  | 3531.7  | 3566.1  | 3548.9  | 3587.6  | 3583.3  | 3596.3  | 3609.2 | 3604.9 | 3639.3 |
| 5°    | 3505.8  | 3501.5  | 3501.5  | 3540.3  | 3579.0  | 3622.1  | 3660.9  | 3686.7  | 3729.8 | 3729.8 | 3772.8 |
| 7.5°  | 3536.0  | 3514.4  | 3544.6  | 3561.8  | 3635.0  | 3708.2  | 3772.8  | 3824.5  | 3923.6 | 3958.0 | 3945.1 |
| 10°   | 3544.6  | 3570.4  | 3592.0  | 3643.6  | 3734.1  | 3846.1  | 3902.0  | 4031.3  | 4143.2 | 4220.8 | 4238.0 |
| 12.5° | 3600.6  | 3639.3  | 3699.6  | 3824.5  | 3906.4  | 4052.8  | 4130.3  | 4255.2  | 4410.3 | 4496.4 | 4556.7 |
| 15°   | 3708.2  | 3721.2  | 3798.7  | 3958.0  | 4134.6  | 4268.1  | 4388.7  | 4479.2  | 4629.9 | 4729.0 | 4733.3 |
| 17.5° | 3846.1  | 3902.0  | 4009.7  | 4160.5  | 4345.7  | 4543.8  | 4638.5  | 4737.6  | 4793.6 | 4927.1 | 4957.2 |
| 20°   | 4121.7  | 4130.3  | 4233.7  | 4431.8  | 4664.4  | 4845.3  | 4914.2  | 4965.8  | 4944.3 | 5082.1 | 5108.0 |
| 22.5° | 4380.1  | 4388.7  | 4517.9  | 4785.0  | 5034.8  | 5189.8  | 5220.0  | 5189.8  | 5125.2 | 5224.3 | 5232.9 |
| 25°   | 4642.8  | 4720.4  | 4815.1  | 5082.1  | 5392.2  | 5599.0  | 5603.3  | 5521.4  | 5387.9 | 5405.2 | 5448.2 |
| 27.5° | 5052.0  | 5108.0  | 5207.0  | 5452.5  | 5792.8  | 6025.3  | 5986.6  | 5887.5  | 5715.2 | 5728.2 | 5715.2 |
| 30°   | 5530.1  | 5581.7  | 5663.6  | 5978.0  | 6227.8  | 6481.9  | 6537.9  | 6443.1  | 6184.7 | 6128.7 | 6193.3 |
| 32.5° | 6107.2  | 6180.4  | 6331.1  | 6619.7  | 6830.7  | 6985.8  | 7024.5  | 6990.1  | 6748.9 | 6727.4 | 6770.4 |
| 35°   | 6809.2  | 6908.3  | 7046.1  | 7300.2  | 7472.5  | 7752.4  | 7752.4  | 7636.1  | 7416.5 | 7442.3 | 7438.0 |
| 37.5° | 7550.0  | 7696.4  | 7911.8  | 8170.2  | 8402.8  | 8553.5  | 8506.1  | 8407.1  | 8187.4 | 8131.4 | 8187.4 |
| 40°   | 8480.3  | 8553.5  | 8824.8  | 9160.8  | 9445.0  | 9617.3  | 9414.9  | 9199.5  | 8674.1 | 8755.9 | 8906.7 |
| 42.5° | 9328.7  | 9445.0  | 9651.8  | 10022.1 | 10345.2 | 10487.3 | 10246.1 | 9819.7  | 9186.6 | 9122.0 | 9234.0 |
| 45°   | 10052.3 | 10177.2 | 10448.5 | 10978.3 | 11318.5 | 11443.4 | 10909.4 | 10220.3 | 9496.7 | 9333.0 | 9380.4 |
| 47.5° | 10534.7 | 10599.3 | 10978.3 | 11482.2 | 11792.3 | 12076.5 | 11309.9 | 10495.9 | 9643.1 | 9333.0 | 9315.8 |
| 50°   | 10349.5 | 10461.4 | 10905.1 | 11477.9 | 12042.1 | 12244.5 | 11512.3 | 10706.9 | 9690.5 | 9294.3 | 9242.6 |
| 52.5° | 9190.9  | 9384.7  | 9880.0  | 10651.0 | 11503.7 | 12227.3 | 11792.3 | 10638.0 | 9673.3 | 9333.0 | 9410.6 |
| 55°   | 6395.7  | 6400.0  | 7003.0  | 8140.0  | 9647.4  | 11353.0 | 11383.1 | 10715.6 | 9785.3 | 9574.2 | 9578.5 |
| 57.5° | 2571.2  | 2700.4  | 3161.3  | 4302.6  | 5693.7  | 7795.5  | 9268.4  | 9940.3  | 9798.2 | 9746.5 | 9880.0 |
| 60°   | 650.3   | 654.6   | 796.8   | 1214.5  | 2002.7  | 3342.2  | 4853.9  | 6568.0  | 7562.9 | 7903.2 | 7950.5 |
| 62.5° | 331.6   | 335.9   | 370.4   | 430.7   | 547.0   | 895.8   | 1593.6  | 2528.1  | 3596.3 | 4138.9 | 4281.1 |
| 65°   | 271.3   | 271.3   | 292.9   | 323.0   | 327.3   | 344.6   | 413.5   | 590.0   | 857.1  | 973.4  | 986.3  |
| 67.5° | 206.7   | 206.7   | 224.0   | 241.2   | 249.8   | 245.5   | 236.9   | 245.5   | 297.2  | 284.3  | 275.6  |
| 70°   | 129.2   | 133.5   | 142.1   | 159.4   | 168.0   | 172.3   | 176.6   | 185.2   | 211.0  | 219.7  | 211.0  |
| 72.5° | 77.5    | 77.5    | 81.8    | 94.8    | 107.7   | 116.3   | 129.2   | 137.8   | 150.7  | 172.3  | 168.0  |
| 75°   | 34.5    | 34.5    | 43.1    | 56.0    | 68.9    | 81.8    | 94.8    | 107.7   | 116.3  | 129.2  | 133.5  |
| 77.5° | 8.6     | 12.9    | 21.5    | 38.8    | 51.7    | 68.9    | 86.1    | 99.1    | 107.7  | 107.7  | 103.4  |
| 80°   | 4.3     | 4.3     | 17.2    | 30.1    | 56.0    | 73.2    | 94.8    | 103.4   | 116.3  | 107.7  | 94.8   |
| 82.5° | 4.3     | 4.3     | 17.2    | 30.1    | 51.7    | 73.2    | 99.1    | 112.0   | 120.6  | 107.7  | 90.4   |
| 85°   | 0.0     | 4.3     | 12.9    | 25.8    | 43.1    | 51.7    | 43.1    | 30.1    | 17.2   | 17.2   | 12.9   |
| 87.5° | 0.0     | 0.0     | 4.3     | 4.3     | 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)