

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: P534229

Luminaire Tested: **GLAN-SA9D-727-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534229  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9D-727-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40291 lumens  
Efficiency: N/A  
Efficacy: 73.0 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

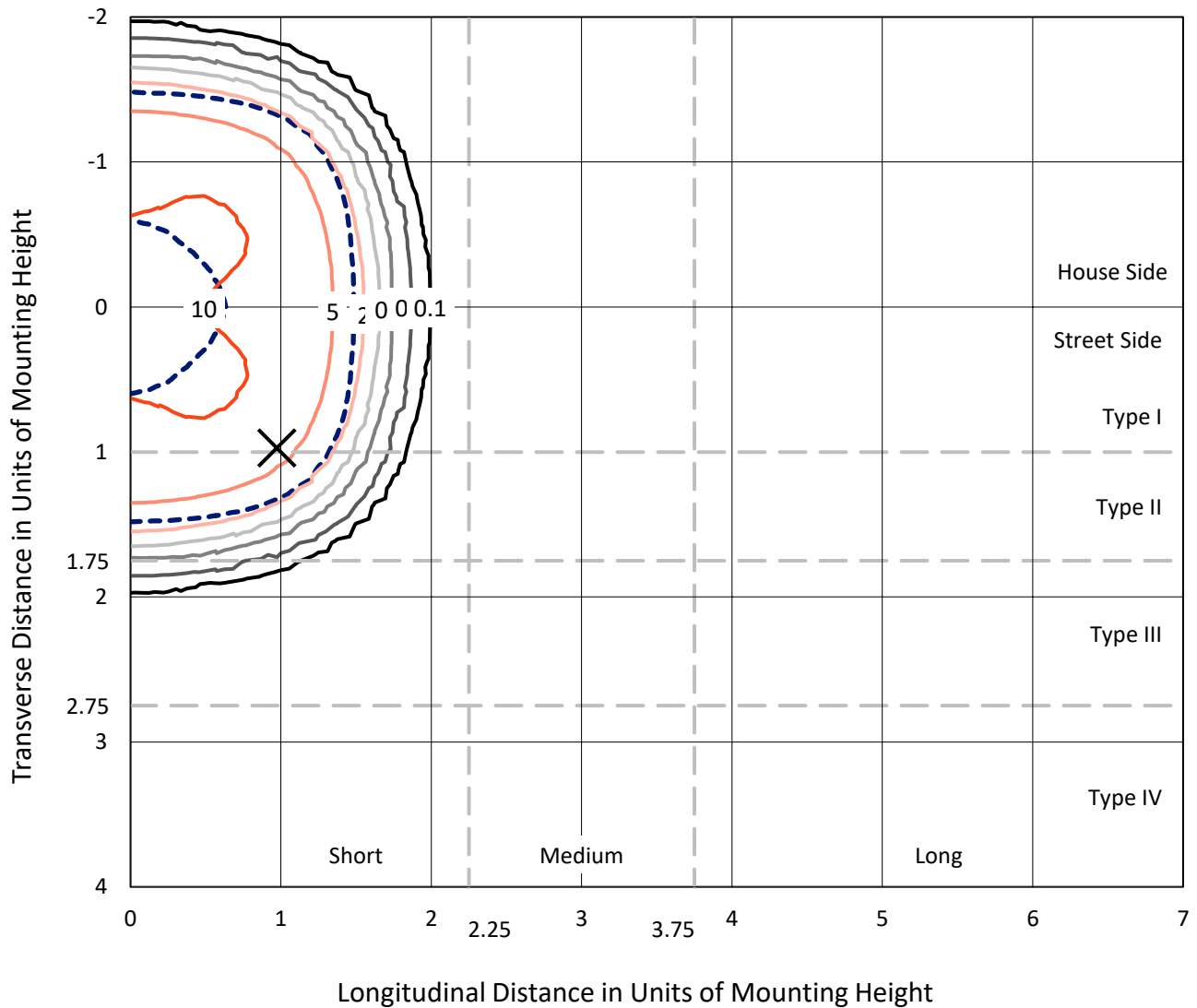
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

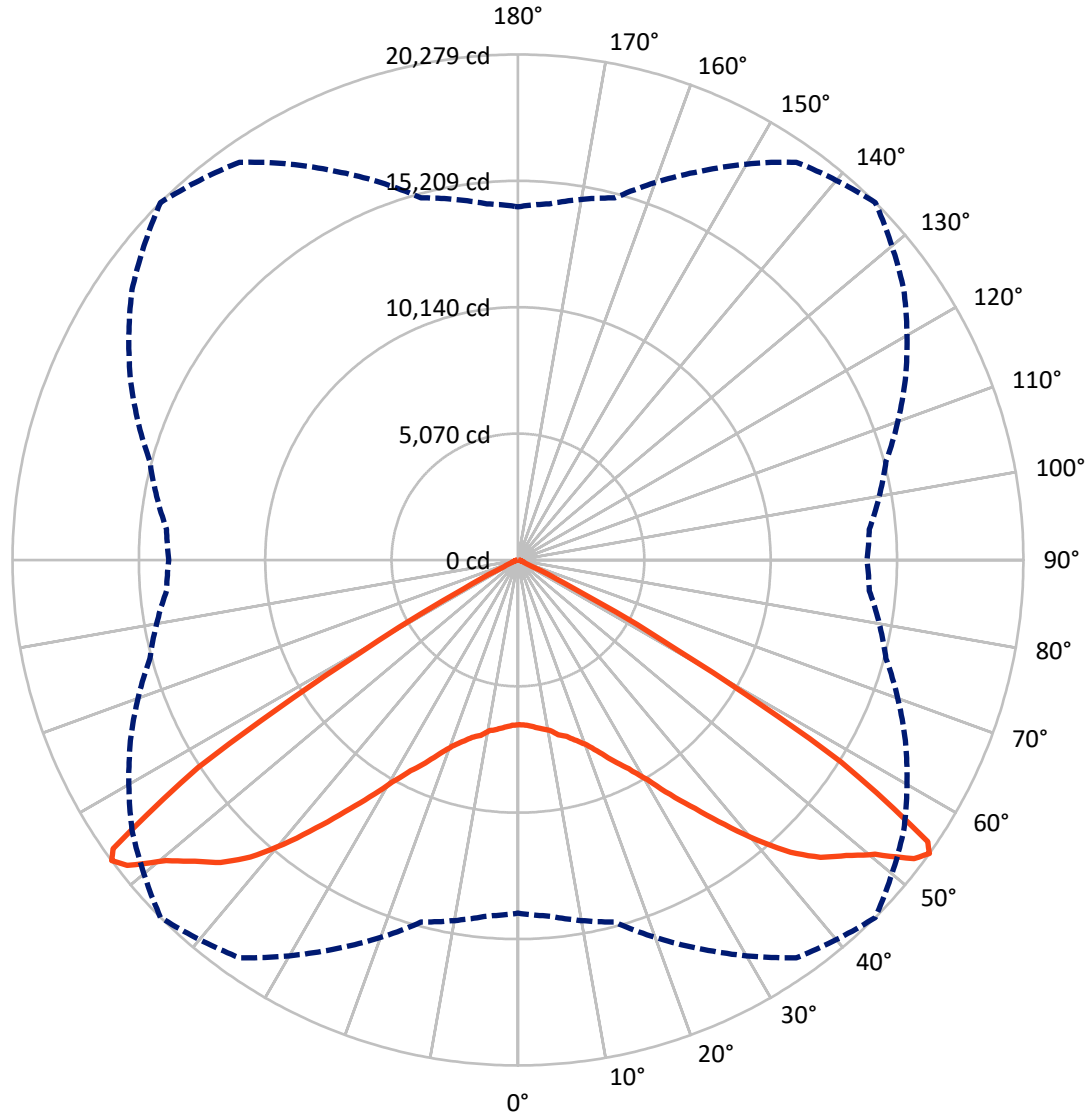
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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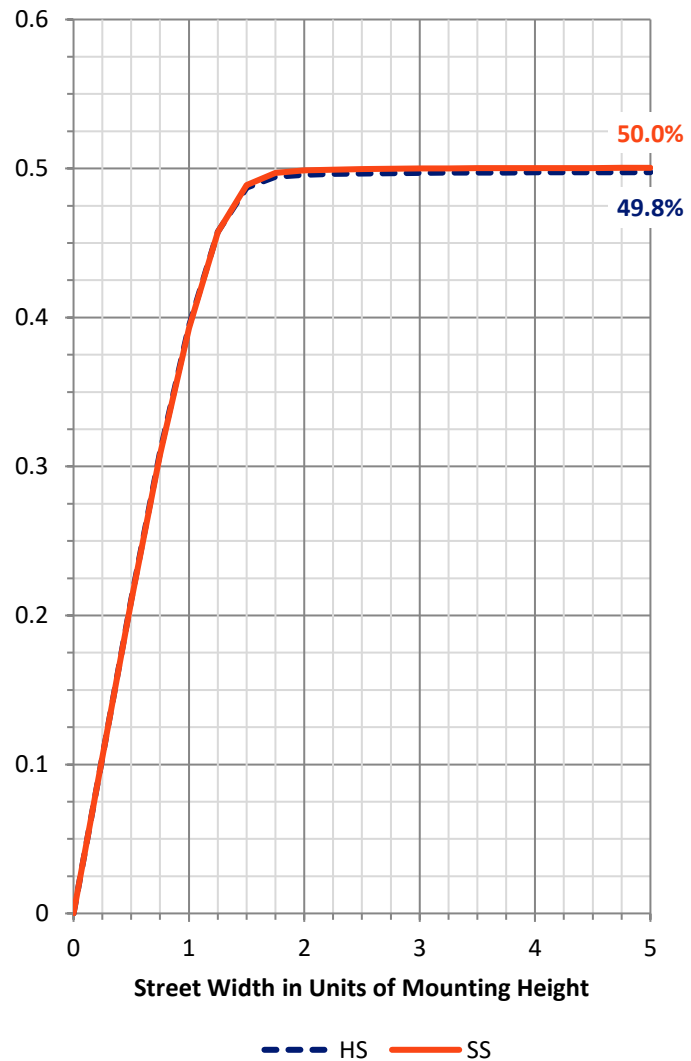
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 20145.5  | 0.0    | 20145.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 20145.5  | 0.0    | 20145.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 40291.0  | 0.0    | 40291.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 646.6   | 1.6       |
| 10°-20°   | 2094.0  | 5.2       |
| 20°-30°   | 4104.1  | 10.2      |
| 30°-40°   | 7380.0  | 18.3      |
| 40°-50°   | 12633.2 | 31.4      |
| 50°-60°   | 12223.8 | 30.3      |
| 60°-70°   | 1046.4  | 2.6       |
| 70°-80°   | 124.0   | 0.3       |
| 80°-90°   | 38.9    | 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°    | 40291.0 | 100.0     |
| 0°-180°   | 40291.0 | 100.0     |

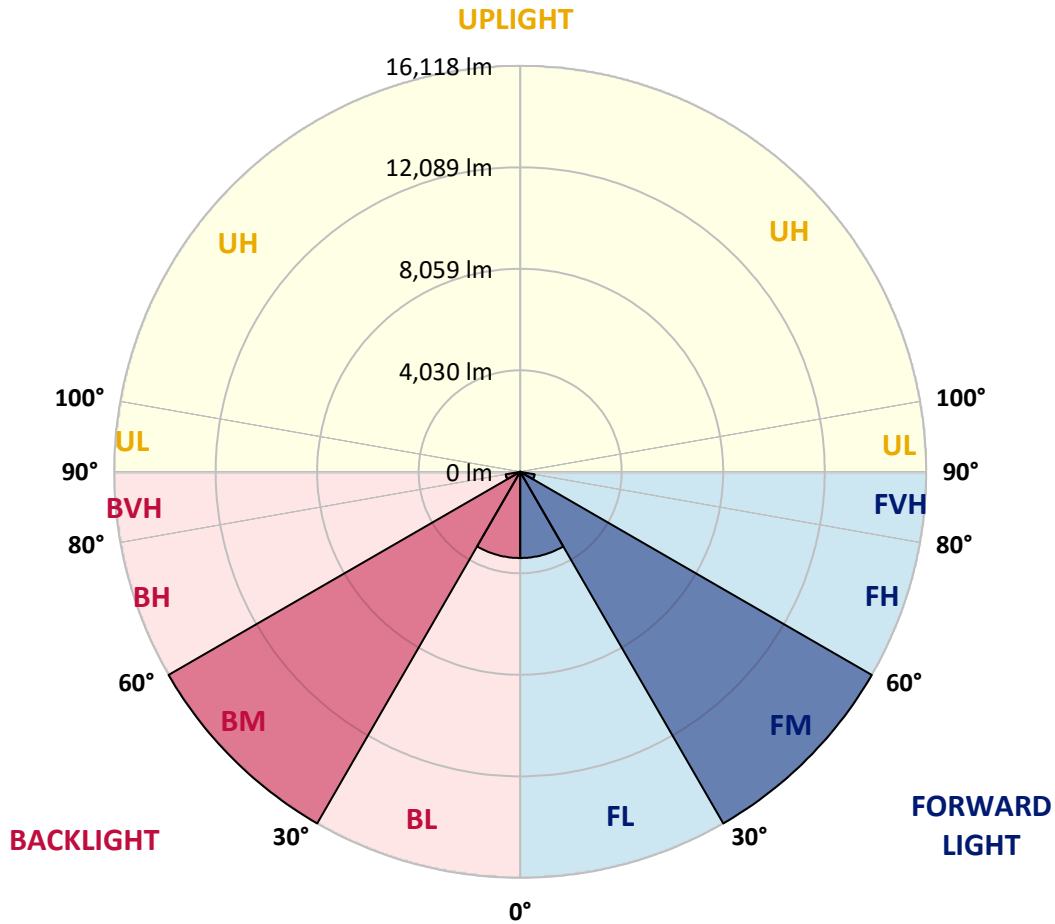


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 3422.3  | 8.5       |                         |      |        |
| FM (30°-60°)   | 16118.5 | 40.0      |                         |      |        |
| FH (60°-80°)   | 585.2   | 1.5       |                         |      | G0/660 |
| FVH (80°-90°)  | 19.4    | 0.0       |                         |      | G1/100 |
| BL (0°-30°)    | 3422.3  | 8.5       | B4/5000                 |      |        |
| BM (30°-60°)   | 16118.5 | 40.0      | B5                      |      |        |
| BH (60°-80°)   | 585.2   | 1.5       | B2/1000                 |      | G0/660 |
| BVH (80°-90°)  | 19.4    | 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°    | 6606.5  | 6606.5  | 6606.5  | 6606.5  | 6606.5  | 6606.5  | 6606.5  | 6606.5  | 6606.5  | 6606.5  | 6606.5  |
| 2.5°  | 6638.4  | 6676.7  | 6651.2  | 6670.3  | 6670.3  | 6638.4  | 6657.5  | 6580.9  | 6632.0  | 6593.7  | 6600.1  |
| 5°    | 6740.5  | 6734.1  | 6734.1  | 6740.5  | 6715.0  | 6727.7  | 6702.2  | 6676.7  | 6657.5  | 6632.0  | 6708.6  |
| 7.5°  | 6868.2  | 6868.2  | 6823.5  | 6836.3  | 6823.5  | 6842.6  | 6791.6  | 6740.5  | 6721.4  | 6702.2  | 6689.4  |
| 10°   | 6989.5  | 6976.7  | 6957.5  | 7015.0  | 6970.3  | 6944.8  | 6919.2  | 6887.3  | 6817.1  | 6791.6  | 6766.0  |
| 12.5° | 7168.2  | 7161.8  | 7136.3  | 7193.7  | 7168.2  | 7193.7  | 7098.0  | 7015.0  | 7002.2  | 6919.2  | 6963.9  |
| 15°   | 7378.8  | 7436.3  | 7391.6  | 7391.6  | 7378.8  | 7346.9  | 7308.6  | 7270.3  | 7155.4  | 7123.5  | 7129.9  |
| 17.5° | 7653.3  | 7634.1  | 7640.5  | 7640.5  | 7704.4  | 7621.4  | 7544.8  | 7449.0  | 7391.6  | 7372.4  | 7308.6  |
| 20°   | 7915.0  | 7940.5  | 7934.1  | 7978.8  | 8017.1  | 7927.8  | 7844.8  | 7832.0  | 7672.4  | 7698.0  | 7608.6  |
| 22.5° | 8374.6  | 8355.4  | 8387.3  | 8419.3  | 8393.7  | 8381.0  | 8304.4  | 8208.6  | 8068.2  | 8004.4  | 7991.6  |
| 25°   | 8859.7  | 8827.8  | 8770.3  | 8846.9  | 8885.2  | 8942.7  | 8795.9  | 8744.8  | 8527.8  | 8432.0  | 8438.4  |
| 27.5° | 9274.6  | 9319.3  | 9383.1  | 9415.0  | 9510.8  | 9491.6  | 9389.5  | 9223.5  | 9057.6  | 8949.1  | 8878.8  |
| 30°   | 9842.7  | 9868.2  | 9976.7  | 10021.4 | 10187.4 | 10232.0 | 10072.5 | 9881.0  | 9587.4  | 9446.9  | 9364.0  |
| 32.5° | 10366.1 | 10544.8 | 10538.4 | 10761.8 | 11029.9 | 11215.0 | 10927.8 | 10634.2 | 10340.6 | 10174.6 | 10027.8 |
| 35°   | 11215.0 | 11183.1 | 11368.2 | 11604.4 | 12038.5 | 12249.1 | 11936.3 | 11598.0 | 11151.2 | 10883.1 | 10768.2 |
| 37.5° | 12006.5 | 12019.3 | 12268.2 | 12644.8 | 13142.7 | 13468.3 | 13193.8 | 12638.5 | 12178.9 | 11834.2 | 11674.6 |
| 40°   | 13155.5 | 13181.0 | 13436.3 | 13864.0 | 14425.7 | 14776.8 | 14457.6 | 13895.9 | 13283.2 | 13015.1 | 13015.1 |
| 42.5° | 14502.3 | 14610.8 | 14776.8 | 15147.0 | 15651.3 | 16040.6 | 15753.4 | 15313.0 | 14693.8 | 14349.1 | 14400.2 |
| 45°   | 15887.4 | 15938.5 | 16047.0 | 16596.0 | 16832.1 | 17023.6 | 16755.5 | 16551.3 | 16136.4 | 15715.1 | 15644.9 |
| 47.5° | 17183.2 | 17202.4 | 17521.5 | 17693.8 | 17879.0 | 17719.4 | 17891.7 | 17623.6 | 17157.7 | 16749.2 | 16666.2 |
| 50°   | 17757.7 | 17725.8 | 18179.0 | 18702.4 | 18842.8 | 18561.9 | 18415.1 | 18236.4 | 17527.9 | 17036.4 | 16819.4 |
| 52.5° | 16085.3 | 16270.4 | 17113.0 | 18568.3 | 19666.2 | 19902.4 | 19047.1 | 18223.6 | 16902.3 | 15944.9 | 15798.1 |
| 54°   | 14170.4 | 14342.7 | 15038.5 | 17196.0 | 19481.1 | 20279.0 | 18900.2 | 17151.3 | 15287.4 | 14151.2 | 14004.4 |
| 55°   | 12274.6 | 12083.1 | 13347.0 | 15549.1 | 18613.0 | 19947.1 | 18319.4 | 15766.2 | 13634.2 | 12593.8 | 12389.5 |
| 57.5° | 6644.8  | 6676.7  | 7742.7  | 9823.5  | 13078.9 | 15293.8 | 13506.6 | 10666.1 | 8055.4  | 6887.3  | 6785.2  |
| 60°   | 2106.4  | 2157.5  | 2623.4  | 3970.3  | 6249.0  | 7461.8  | 6395.8  | 4283.0  | 2961.7  | 2374.5  | 2278.8  |
| 62.5° | 657.5   | 683.0   | 746.8   | 1110.7  | 1710.7  | 2444.7  | 1914.9  | 1149.0  | 855.3   | 785.1   | 797.9   |
| 65°   | 402.1   | 402.1   | 408.5   | 434.0   | 510.6   | 593.6   | 574.5   | 504.3   | 485.1   | 472.3   | 466.0   |
| 67.5° | 261.7   | 255.3   | 268.1   | 287.2   | 300.0   | 306.4   | 325.5   | 344.7   | 338.3   | 325.5   | 325.5   |
| 70°   | 159.6   | 153.2   | 166.0   | 191.5   | 197.9   | 210.6   | 229.8   | 255.3   | 248.9   | 236.2   | 242.6   |
| 72.5° | 89.4    | 89.4    | 95.7    | 114.9   | 134.0   | 146.8   | 166.0   | 185.1   | 191.5   | 185.1   | 185.1   |
| 75°   | 31.9    | 38.3    | 51.1    | 70.2    | 83.0    | 102.1   | 121.3   | 140.4   | 159.6   | 146.8   | 140.4   |
| 77.5° | 12.8    | 12.8    | 25.5    | 44.7    | 63.8    | 83.0    | 114.9   | 134.0   | 146.8   | 134.0   | 121.3   |
| 80°   | 6.4     | 6.4     | 19.1    | 38.3    | 57.4    | 76.6    | 95.7    | 114.9   | 121.3   | 108.5   | 95.7    |
| 82.5° | 6.4     | 6.4     | 19.1    | 38.3    | 57.4    | 70.2    | 102.1   | 114.9   | 127.7   | 114.9   | 95.7    |
| 85°   | 0.0     | 6.4     | 19.1    | 38.3    | 51.1    | 57.4    | 57.4    | 38.3    | 31.9    | 19.1    | 19.1    |
| 87.5° | 0.0     | 0.0     | 6.4     | 0.0     | 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)