

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: P533709

Luminaire Tested: **GLAN-SA9A-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533709  
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-SA9A-830-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 615mA 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: 22631 lumens  
Efficiency: N/A  
Efficacy: 82.6 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

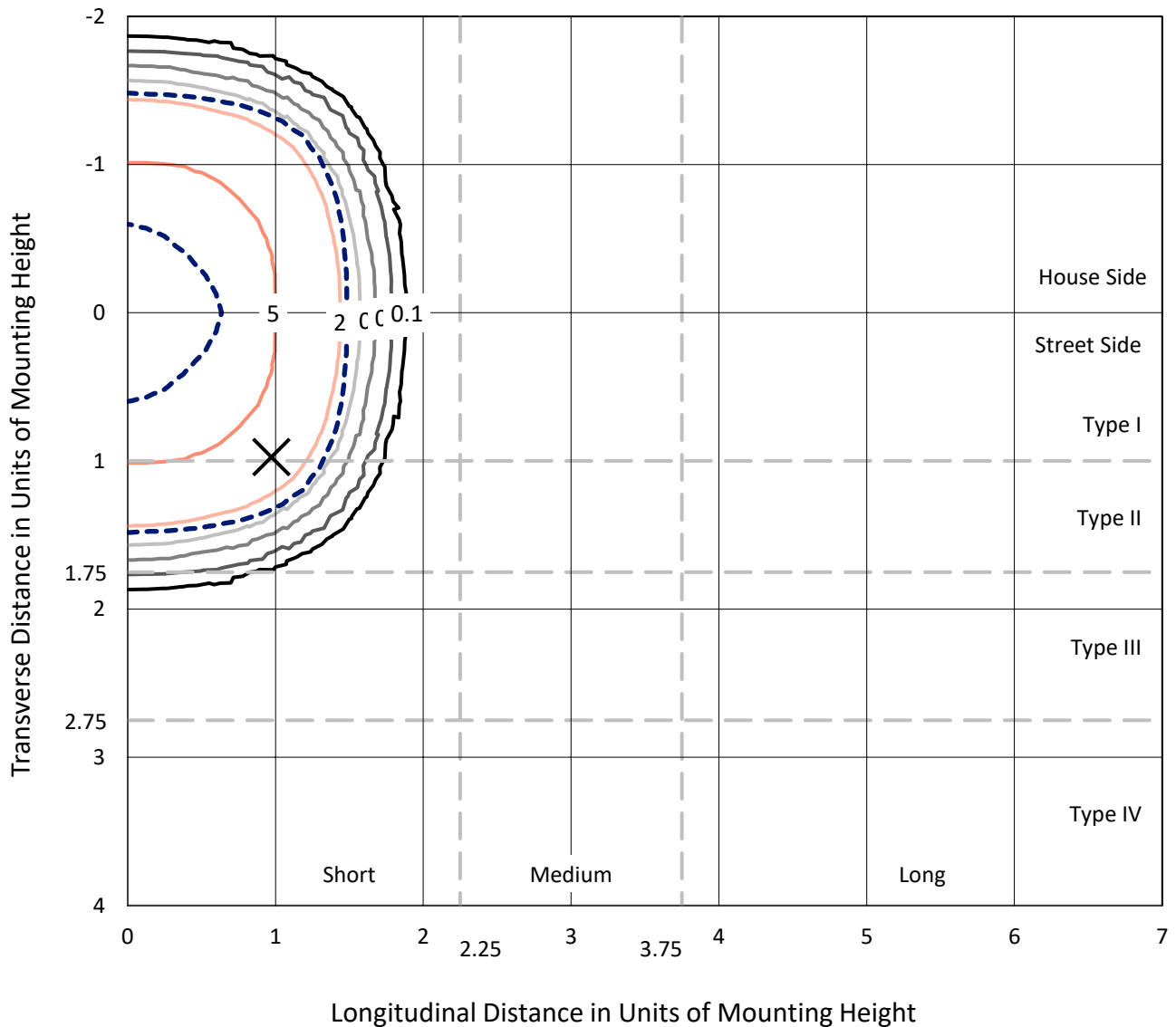
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

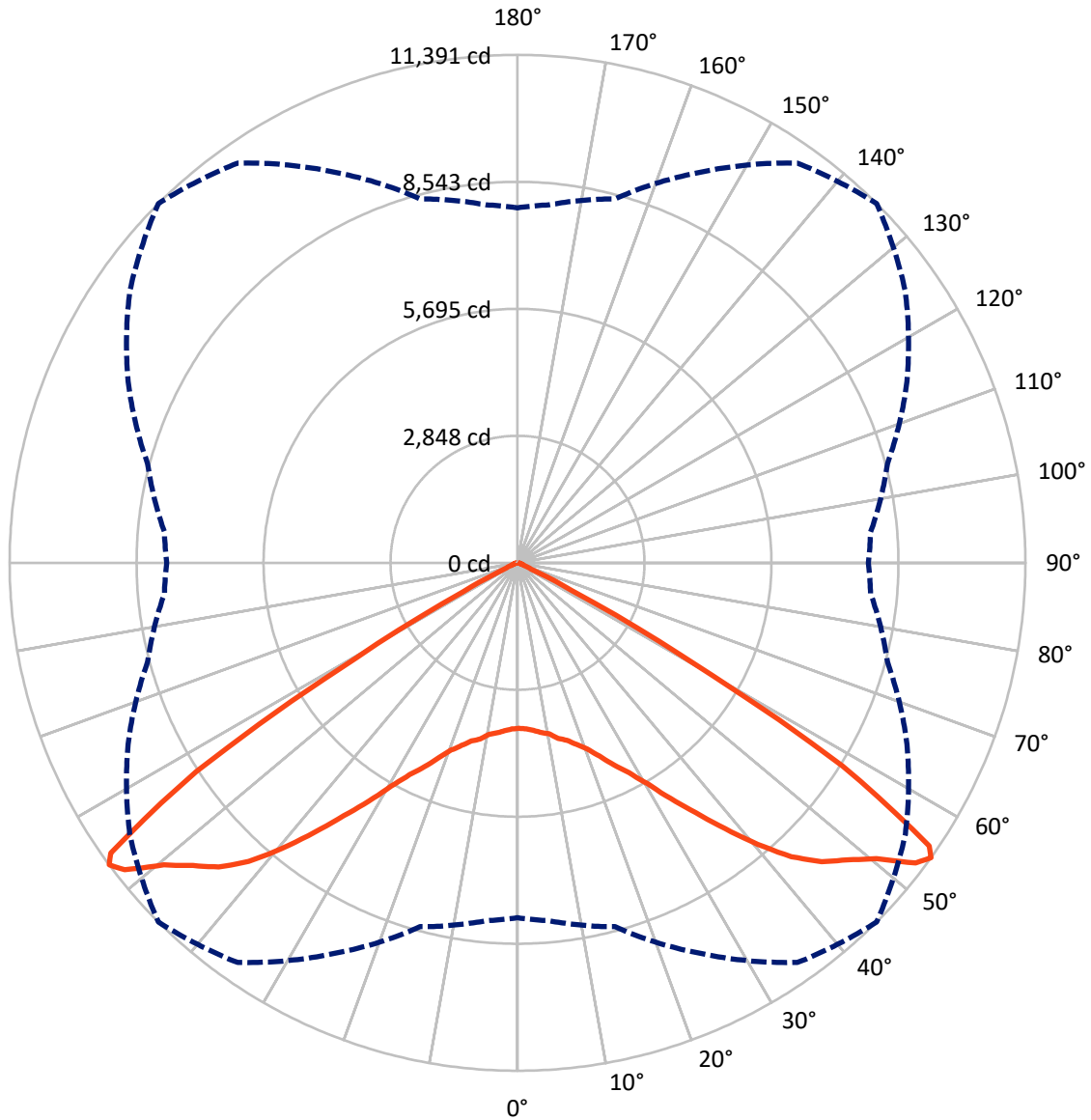
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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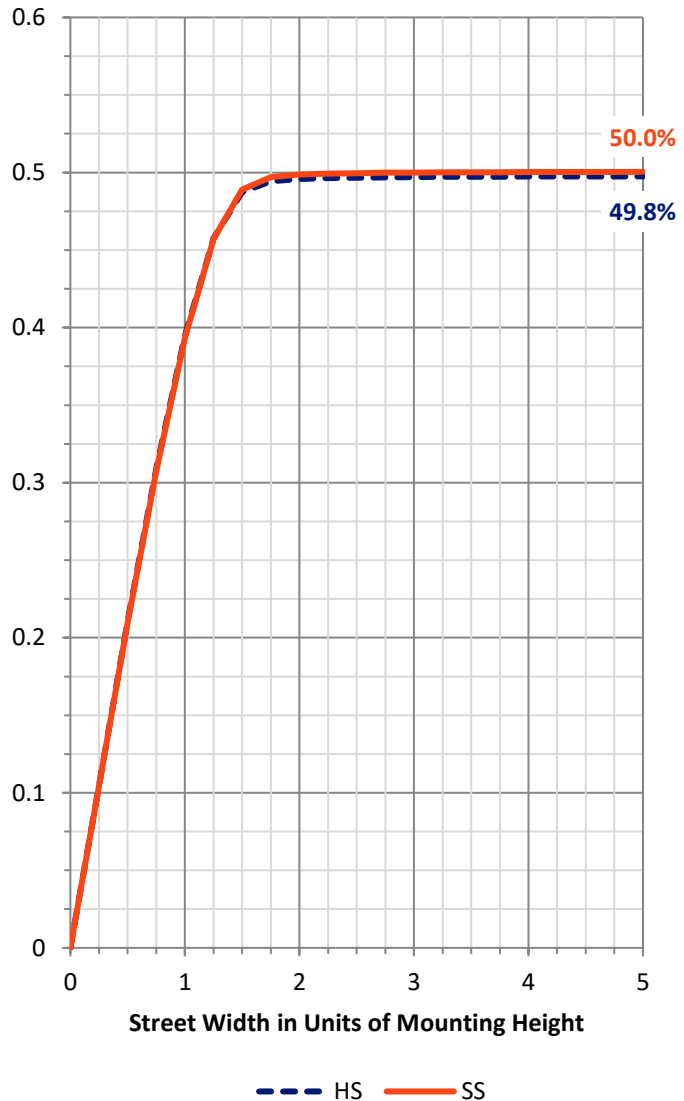
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11315.5  | 0.0    | 11315.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11315.5  | 0.0    | 11315.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 22631.0  | 0.0    | 22631.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 363.2   | 1.6       |
| 10°-20°   | 1176.2  | 5.2       |
| 20°-30°   | 2305.2  | 10.2      |
| 30°-40°   | 4145.3  | 18.3      |
| 40°-50°   | 7095.9  | 31.4      |
| 50°-60°   | 6866.0  | 30.3      |
| 60°-70°   | 587.7   | 2.6       |
| 70°-80°   | 69.7    | 0.3       |
| 80°-90°   | 21.9    | 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°    | 22631.0 | 100.0     |
| 0°-180°   | 22631.0 | 100.0     |

**Coefficient of Utilization**



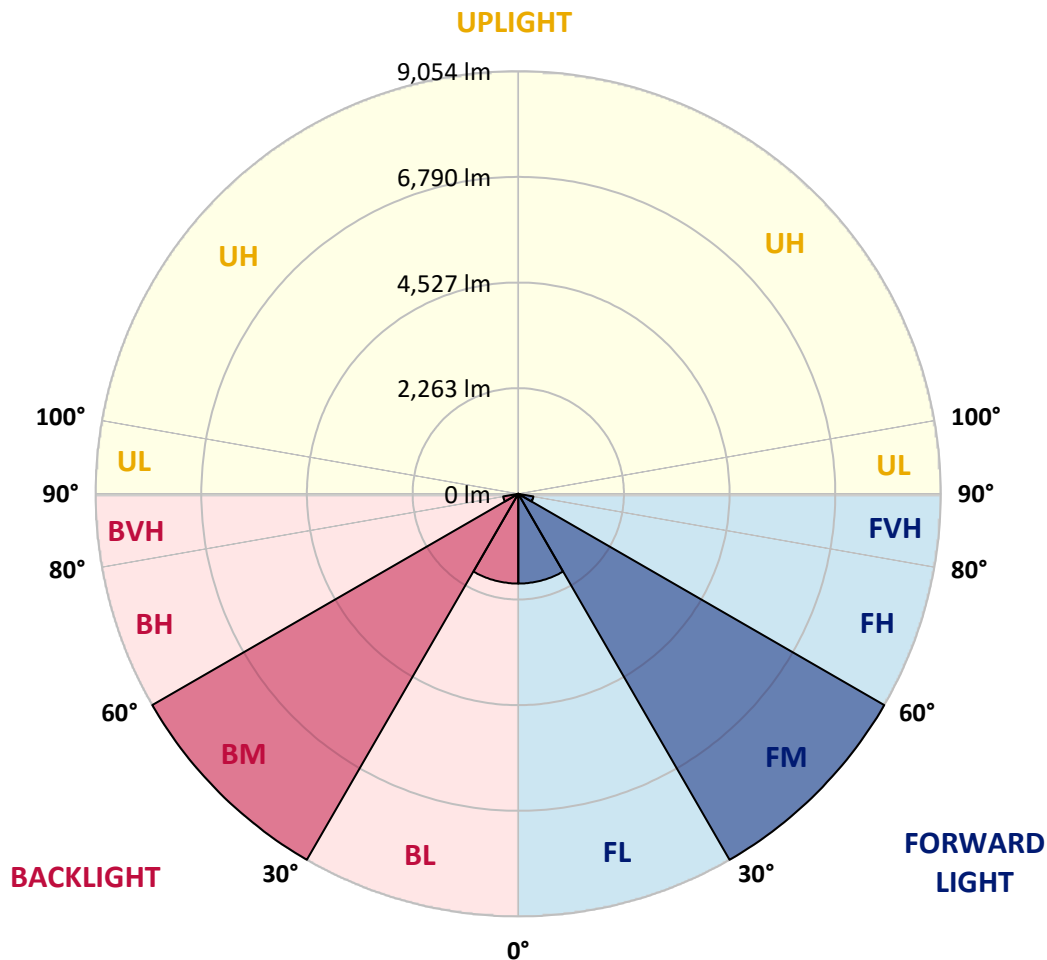
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 1922.3 | 8.5       |                         |      |        |
| FM (30°-60°)   | 9053.6 | 40.0      |                         |      |        |
| FH (60°-80°)   | 328.7  | 1.5       |                         |      | G0/660 |
| FVH (80°-90°)  | 10.9   | 0.0       |                         |      | G1/100 |
| BL (0°-30°)    | 1922.3 | 8.5       | B3/2500                 |      |        |
| BM (30°-60°)   | 9053.6 | 40.0      | B5                      |      |        |
| BH (60°-80°)   | 328.7  | 1.5       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 10.9   | 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°    | 3710.8 | 3710.8 | 3710.8  | 3710.8  | 3710.8  | 3710.8  | 3710.8  | 3710.8  | 3710.8 | 3710.8 | 3710.8 |
| 2.5°  | 3728.7 | 3750.2 | 3735.9  | 3746.6  | 3746.6  | 3728.7  | 3739.5  | 3696.4  | 3725.1 | 3703.6 | 3707.2 |
| 5°    | 3786.1 | 3782.5 | 3782.5  | 3786.1  | 3771.7  | 3778.9  | 3764.6  | 3750.2  | 3739.5 | 3725.1 | 3768.1 |
| 7.5°  | 3857.8 | 3857.8 | 3832.7  | 3839.8  | 3832.7  | 3843.4  | 3814.8  | 3786.1  | 3775.3 | 3764.6 | 3757.4 |
| 10°   | 3925.9 | 3918.7 | 3908.0  | 3940.2  | 3915.1  | 3900.8  | 3886.5  | 3868.5  | 3829.1 | 3814.8 | 3800.4 |
| 12.5° | 4026.3 | 4022.7 | 4008.4  | 4040.6  | 4026.3  | 4040.6  | 3986.8  | 3940.2  | 3933.1 | 3886.5 | 3911.6 |
| 15°   | 4144.6 | 4176.9 | 4151.8  | 4151.8  | 4144.6  | 4126.7  | 4105.2  | 4083.6  | 4019.1 | 4001.2 | 4004.8 |
| 17.5° | 4298.8 | 4288.0 | 4291.6  | 4291.6  | 4327.4  | 4280.8  | 4237.8  | 4184.0  | 4151.8 | 4141.0 | 4105.2 |
| 20°   | 4445.8 | 4460.1 | 4456.5  | 4481.6  | 4503.1  | 4452.9  | 4406.3  | 4399.2  | 4309.5 | 4323.9 | 4273.7 |
| 22.5° | 4703.9 | 4693.1 | 4711.1  | 4729.0  | 4714.7  | 4707.5  | 4664.5  | 4610.7  | 4531.8 | 4496.0 | 4488.8 |
| 25°   | 4976.4 | 4958.5 | 4926.2  | 4969.2  | 4990.7  | 5023.0  | 4940.5  | 4911.9  | 4790.0 | 4736.2 | 4739.8 |
| 27.5° | 5209.4 | 5234.5 | 5270.4  | 5288.3  | 5342.1  | 5331.3  | 5274.0  | 5180.7  | 5087.5 | 5026.6 | 4987.1 |
| 30°   | 5528.5 | 5542.9 | 5603.8  | 5628.9  | 5722.1  | 5747.2  | 5657.6  | 5550.0  | 5385.1 | 5306.2 | 5259.6 |
| 32.5° | 5822.5 | 5922.9 | 5919.3  | 6044.8  | 6195.4  | 6299.4  | 6138.0  | 5973.1  | 5808.2 | 5715.0 | 5632.5 |
| 35°   | 6299.4 | 6281.4 | 6385.4  | 6518.1  | 6761.9  | 6880.2  | 6704.5  | 6514.5  | 6263.5 | 6112.9 | 6048.4 |
| 37.5° | 6743.9 | 6751.1 | 6890.9  | 7102.5  | 7382.1  | 7565.0  | 7410.8  | 7098.9  | 6840.7 | 6647.1 | 6557.5 |
| 40°   | 7389.3 | 7403.6 | 7547.0  | 7787.3  | 8102.8  | 8300.0  | 8120.7  | 7805.2  | 7461.0 | 7310.4 | 7310.4 |
| 42.5° | 8145.8 | 8206.7 | 8300.0  | 8507.9  | 8791.1  | 9009.8  | 8848.5  | 8601.1  | 8253.3 | 8059.7 | 8088.4 |
| 45°   | 8923.8 | 8952.5 | 9013.4  | 9321.8  | 9454.4  | 9562.0  | 9411.4  | 9296.7  | 9063.6 | 8827.0 | 8787.6 |
| 47.5° | 9651.6 | 9662.4 | 9841.6  | 9938.4  | 10042.4 | 9952.8  | 10049.6 | 9899.0  | 9637.3 | 9407.8 | 9361.2 |
| 50°   | 9974.3 | 9956.4 | 10210.9 | 10504.9 | 10583.8 | 10426.0 | 10343.6 | 10243.2 | 9845.2 | 9569.1 | 9447.2 |
| 52.5° | 9034.9 | 9138.9 | 9612.2  | 10429.6 | 11046.3 | 11178.9 | 10698.5 | 10236.0 | 9493.9 | 8956.1 | 8873.6 |
| 54°   | 7959.4 | 8056.2 | 8447.0  | 9658.8  | 10942.3 | 11390.5 | 10616.1 | 9633.7  | 8586.8 | 7948.6 | 7866.1 |
| 55°   | 6894.5 | 6787.0 | 7496.8  | 8733.8  | 10454.7 | 11204.0 | 10289.8 | 8855.7  | 7658.2 | 7073.8 | 6959.1 |
| 57.5° | 3732.3 | 3750.2 | 4349.0  | 5517.8  | 7346.3  | 8590.4  | 7586.5  | 5991.0  | 4524.6 | 3868.5 | 3811.2 |
| 60°   | 1183.1 | 1211.8 | 1473.6  | 2230.1  | 3510.0  | 4191.2  | 3592.5  | 2405.7  | 1663.6 | 1333.7 | 1279.9 |
| 62.5° | 369.3  | 383.6  | 419.5   | 623.8   | 960.9   | 1373.2  | 1075.6  | 645.4   | 480.4  | 441.0  | 448.2  |
| 65°   | 225.9  | 225.9  | 229.5   | 243.8   | 286.8   | 333.4   | 322.7   | 283.2   | 272.5  | 265.3  | 261.7  |
| 67.5° | 147.0  | 143.4  | 150.6   | 161.3   | 168.5   | 172.1   | 182.8   | 193.6   | 190.0  | 182.8  | 182.8  |
| 70°   | 89.6   | 86.0   | 93.2    | 107.6   | 111.1   | 118.3   | 129.1   | 143.4   | 139.8  | 132.7  | 136.2  |
| 72.5° | 50.2   | 50.2   | 53.8    | 64.5    | 75.3    | 82.5    | 93.2    | 104.0   | 107.6  | 104.0  | 104.0  |
| 75°   | 17.9   | 21.5   | 28.7    | 39.4    | 46.6    | 57.4    | 68.1    | 78.9    | 89.6   | 82.5   | 78.9   |
| 77.5° | 7.2    | 7.2    | 14.3    | 25.1    | 35.9    | 46.6    | 64.5    | 75.3    | 82.5   | 75.3   | 68.1   |
| 80°   | 3.6    | 3.6    | 10.8    | 21.5    | 32.3    | 43.0    | 53.8    | 64.5    | 68.1   | 60.9   | 53.8   |
| 82.5° | 3.6    | 3.6    | 10.8    | 21.5    | 32.3    | 39.4    | 57.4    | 64.5    | 71.7   | 64.5   | 53.8   |
| 85°   | 0.0    | 3.6    | 10.8    | 21.5    | 28.7    | 32.3    | 32.3    | 21.5    | 17.9   | 10.8   | 10.8   |
| 87.5° | 0.0    | 0.0    | 3.6     | 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)