

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: P527131

Luminaire Tested: **GLAN-SA2A-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527131  
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-SA2A-827-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 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: 4644 lumens  
Efficiency: N/A  
Efficacy: 73.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0

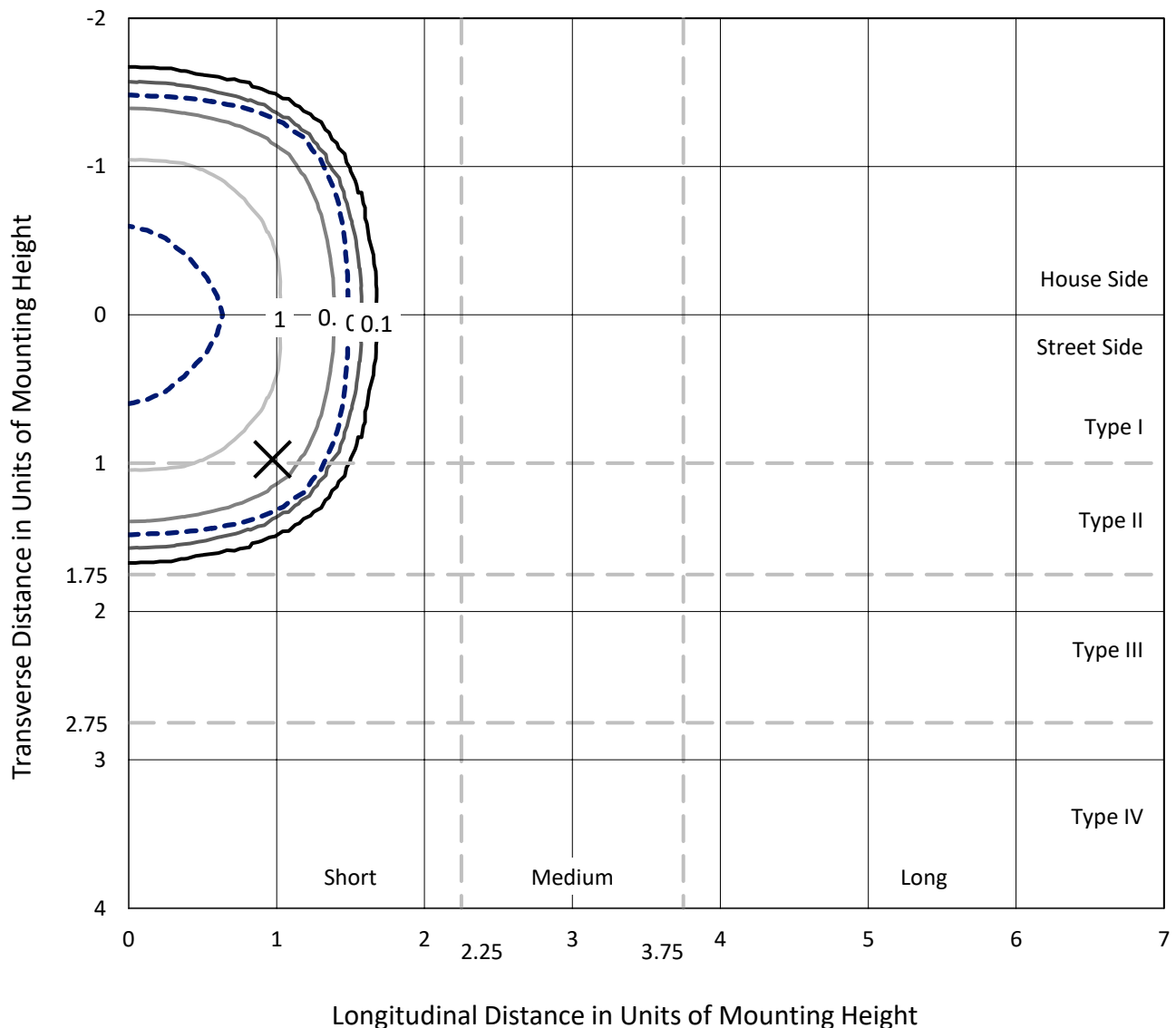
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

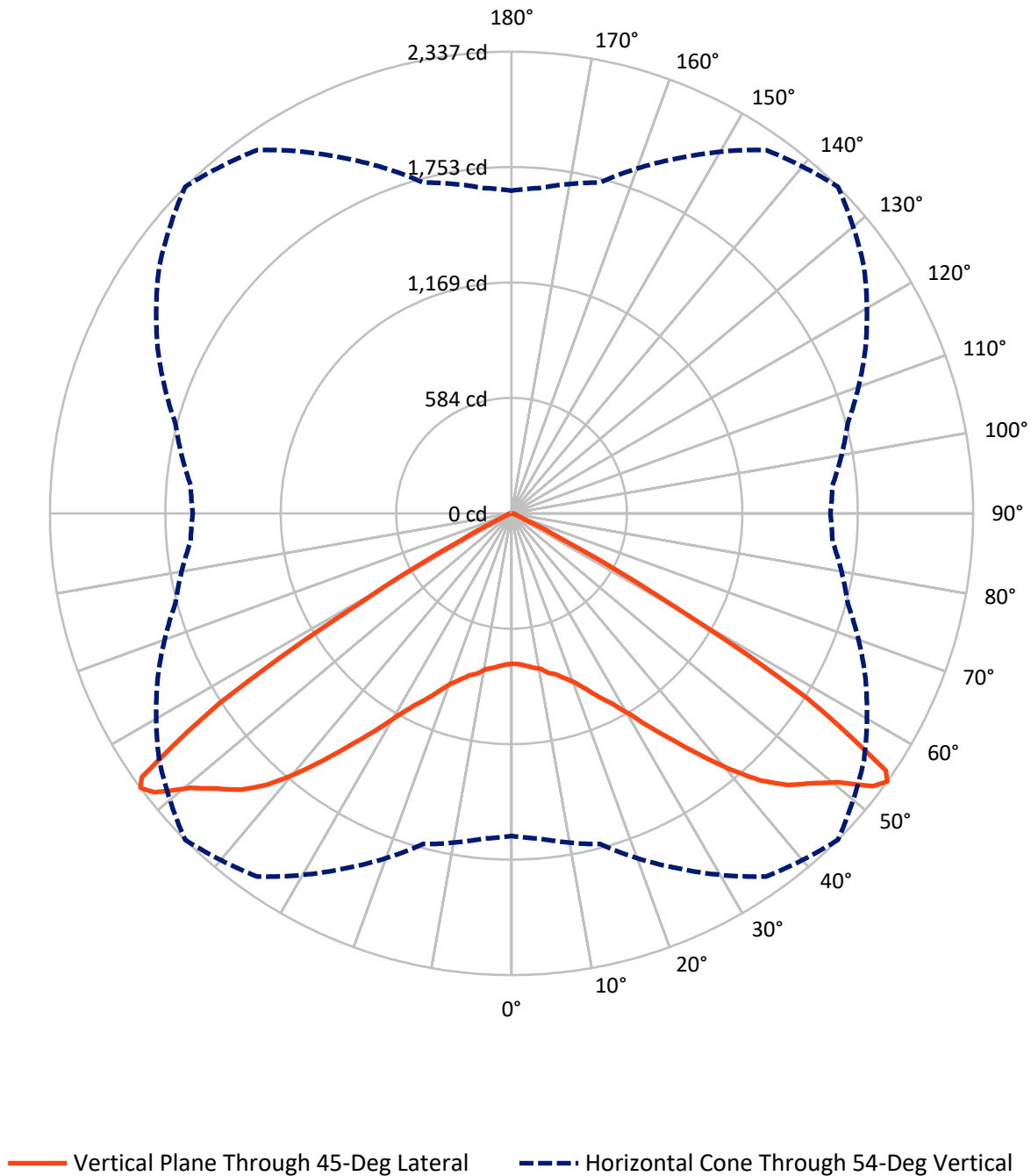
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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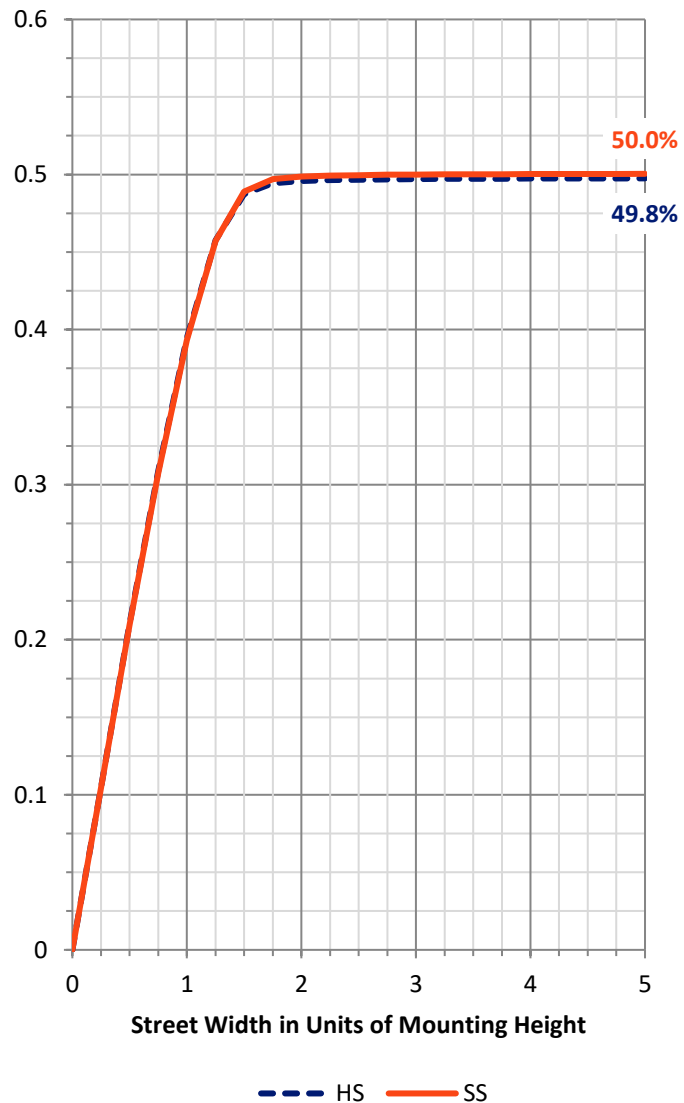
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2322.0   | 0.0    | 2322.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2322.0   | 0.0    | 2322.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4644.0   | 0.0    | 4644.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 74.5   | 1.6       |
| 10°-20°   | 241.4  | 5.2       |
| 20°-30°   | 473.0  | 10.2      |
| 30°-40°   | 850.6  | 18.3      |
| 40°-50°   | 1456.1 | 31.4      |
| 50°-60°   | 1408.9 | 30.3      |
| 60°-70°   | 120.6  | 2.6       |
| 70°-80°   | 14.3   | 0.3       |
| 80°-90°   | 4.5    | 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°    | 4644.0 | 100.0     |
| 0°-180°   | 4644.0 | 100.0     |

**Coefficient of Utilization**



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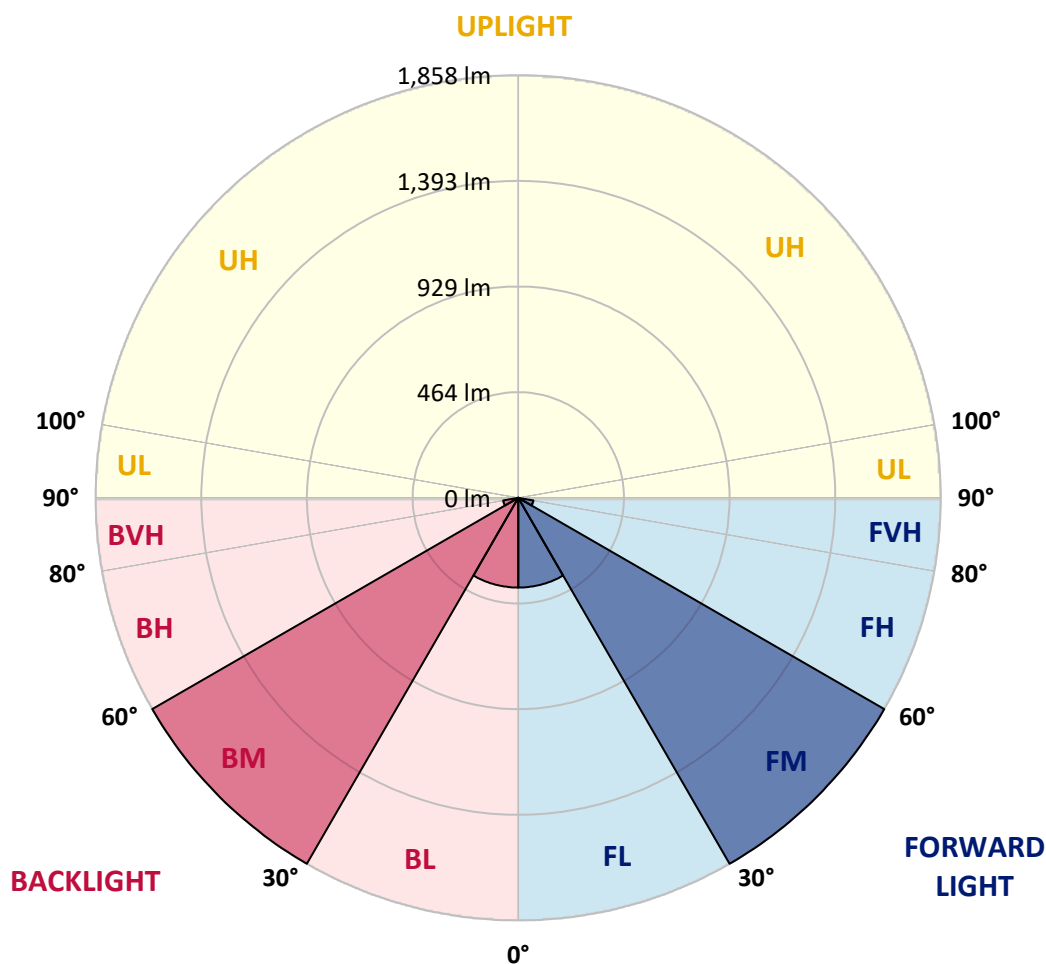
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 394.5  | 8.5       |                         |      |        |
| FM   | (30°-60°)   | 1857.8 | 40.0      |                         |      |        |
| FH   | (60°-80°)   | 67.5   | 1.5       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 2.2    | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 394.5  | 8.5       | B1/500                  |      |        |
| BM   | (30°-60°)   | 1857.8 | 40.0      | B2/2500                 |      |        |
| BH   | (60°-80°)   | 67.5   | 1.5       | B0/110                  |      | G0/660 |
| BVH  | (80°-90°)   | 2.2    | 0.0       |                         |      | G0/10  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 761.5  | 761.5  | 761.5  | 761.5  | 761.5  | 761.5  | 761.5  | 761.5  | 761.5  | 761.5  | 761.5  |
| 2.5°  | 765.1  | 769.6  | 766.6  | 768.8  | 768.8  | 765.1  | 767.4  | 758.5  | 764.4  | 760.0  | 760.7  |
| 5°    | 776.9  | 776.2  | 776.2  | 776.9  | 774.0  | 775.5  | 772.5  | 769.6  | 767.4  | 764.4  | 773.2  |
| 7.5°  | 791.6  | 791.6  | 786.5  | 788.0  | 786.5  | 788.7  | 782.8  | 776.9  | 774.7  | 772.5  | 771.0  |
| 10°   | 805.6  | 804.1  | 801.9  | 808.6  | 803.4  | 800.5  | 797.5  | 793.8  | 785.8  | 782.8  | 779.9  |
| 12.5° | 826.2  | 825.5  | 822.5  | 829.2  | 826.2  | 829.2  | 818.1  | 808.6  | 807.1  | 797.5  | 802.7  |
| 15°   | 850.5  | 857.1  | 852.0  | 852.0  | 850.5  | 846.8  | 842.4  | 838.0  | 824.7  | 821.1  | 821.8  |
| 17.5° | 882.1  | 879.9  | 880.7  | 880.7  | 888.0  | 878.5  | 869.6  | 858.6  | 852.0  | 849.8  | 842.4  |
| 20°   | 912.3  | 915.2  | 914.5  | 919.7  | 924.1  | 913.8  | 904.2  | 902.7  | 884.3  | 887.3  | 877.0  |
| 22.5° | 965.3  | 963.1  | 966.7  | 970.4  | 967.5  | 966.0  | 957.2  | 946.1  | 930.0  | 922.6  | 921.1  |
| 25°   | 1021.2 | 1017.5 | 1010.9 | 1019.7 | 1024.1 | 1030.7 | 1013.8 | 1007.9 | 982.9  | 971.9  | 972.6  |
| 27.5° | 1069.0 | 1074.2 | 1081.5 | 1085.2 | 1096.2 | 1094.0 | 1082.2 | 1063.1 | 1044.0 | 1031.5 | 1023.4 |
| 30°   | 1134.5 | 1137.4 | 1149.9 | 1155.1 | 1174.2 | 1179.4 | 1161.0 | 1138.9 | 1105.1 | 1088.9 | 1079.3 |
| 32.5° | 1194.8 | 1215.4 | 1214.7 | 1240.4 | 1271.3 | 1292.7 | 1259.6 | 1225.7 | 1191.9 | 1172.7 | 1155.8 |
| 35°   | 1292.7 | 1289.0 | 1310.3 | 1337.5 | 1387.6 | 1411.8 | 1375.8 | 1336.8 | 1285.3 | 1254.4 | 1241.2 |
| 37.5° | 1383.9 | 1385.4 | 1414.1 | 1457.5 | 1514.8 | 1552.4 | 1520.7 | 1456.7 | 1403.8 | 1364.0 | 1345.6 |
| 40°   | 1516.3 | 1519.3 | 1548.7 | 1598.0 | 1662.7 | 1703.2 | 1666.4 | 1601.7 | 1531.0 | 1500.1 | 1500.1 |
| 42.5° | 1671.6 | 1684.1 | 1703.2 | 1745.9 | 1804.0 | 1848.9 | 1815.8 | 1765.0 | 1693.6 | 1653.9 | 1659.8 |
| 45°   | 1831.2 | 1837.1 | 1849.6 | 1912.9 | 1940.1 | 1962.2 | 1931.3 | 1907.7 | 1859.9 | 1811.3 | 1803.3 |
| 47.5° | 1980.6 | 1982.8 | 2019.6 | 2039.4 | 2060.8 | 2042.4 | 2062.2 | 2031.3 | 1977.6 | 1930.5 | 1921.0 |
| 50°   | 2046.8 | 2043.1 | 2095.3 | 2155.7 | 2171.8 | 2139.5 | 2122.6 | 2102.0 | 2020.3 | 1963.6 | 1938.6 |
| 52.5° | 1854.0 | 1875.4 | 1972.5 | 2140.2 | 2266.8 | 2294.0 | 2195.4 | 2100.5 | 1948.2 | 1837.8 | 1820.9 |
| 54°   | 1633.3 | 1653.2 | 1733.4 | 1982.0 | 2245.4 | 2337.4 | 2178.5 | 1976.9 | 1762.1 | 1631.1 | 1614.2 |
| 55°   | 1414.8 | 1392.7 | 1538.4 | 1792.2 | 2145.4 | 2299.1 | 2111.5 | 1817.2 | 1571.5 | 1451.6 | 1428.0 |
| 57.5° | 765.9  | 769.6  | 892.4  | 1132.3 | 1507.5 | 1762.8 | 1556.8 | 1229.4 | 928.5  | 793.8  | 782.1  |
| 60°   | 242.8  | 248.7  | 302.4  | 457.6  | 720.3  | 860.1  | 737.2  | 493.7  | 341.4  | 273.7  | 262.7  |
| 62.5° | 75.8   | 78.7   | 86.1   | 128.0  | 197.2  | 281.8  | 220.7  | 132.4  | 98.6   | 90.5   | 92.0   |
| 65°   | 46.4   | 46.4   | 47.1   | 50.0   | 58.9   | 68.4   | 66.2   | 58.1   | 55.9   | 54.4   | 53.7   |
| 67.5° | 30.2   | 29.4   | 30.9   | 33.1   | 34.6   | 35.3   | 37.5   | 39.7   | 39.0   | 37.5   | 37.5   |
| 70°   | 18.4   | 17.7   | 19.1   | 22.1   | 22.8   | 24.3   | 26.5   | 29.4   | 28.7   | 27.2   | 28.0   |
| 72.5° | 10.3   | 10.3   | 11.0   | 13.2   | 15.5   | 16.9   | 19.1   | 21.3   | 22.1   | 21.3   | 21.3   |
| 75°   | 3.7    | 4.4    | 5.9    | 8.1    | 9.6    | 11.8   | 14.0   | 16.2   | 18.4   | 16.9   | 16.2   |
| 77.5° | 1.5    | 1.5    | 2.9    | 5.2    | 7.4    | 9.6    | 13.2   | 15.5   | 16.9   | 15.5   | 14.0   |
| 80°   | 0.7    | 0.7    | 2.2    | 4.4    | 6.6    | 8.8    | 11.0   | 13.2   | 14.0   | 12.5   | 11.0   |
| 82.5° | 0.7    | 0.7    | 2.2    | 4.4    | 6.6    | 8.1    | 11.8   | 13.2   | 14.7   | 13.2   | 11.0   |
| 85°   | 0.0    | 0.7    | 2.2    | 4.4    | 5.9    | 6.6    | 6.6    | 4.4    | 3.7    | 2.2    | 2.2    |
| 87.5° | 0.0    | 0.0    | 0.7    | 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)