

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: P529001

Luminaire Tested: **GLAN-SA4A-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529001  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4A-827-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7981 lumens  
Efficiency: N/A  
Efficacy: 66.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

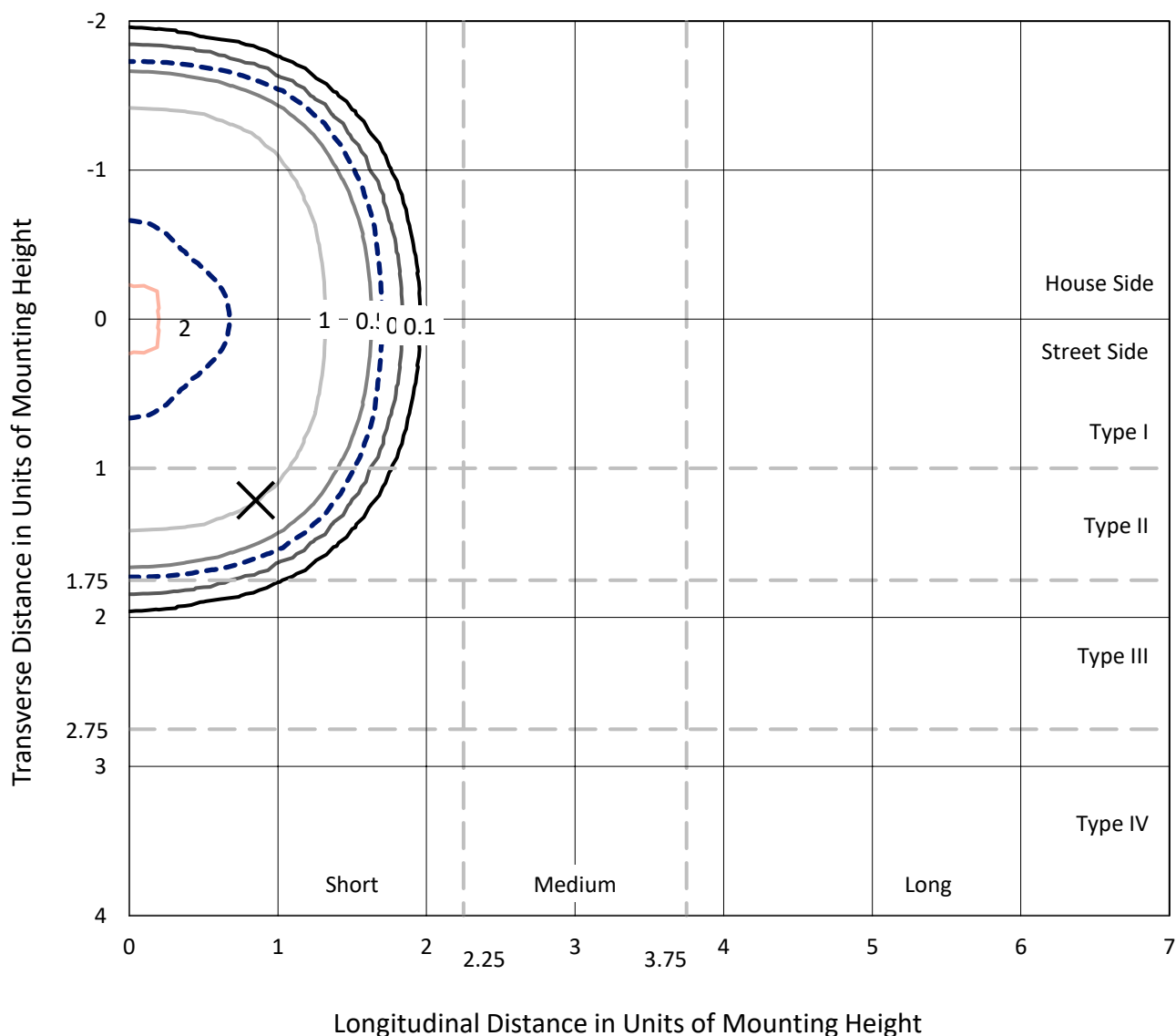
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P529001  
 CATALOG NUMBER: GLAN-SA4A-827-U-5MQ-GRSBK

## Iso-Footcandle Lines of Horizontal Illumination

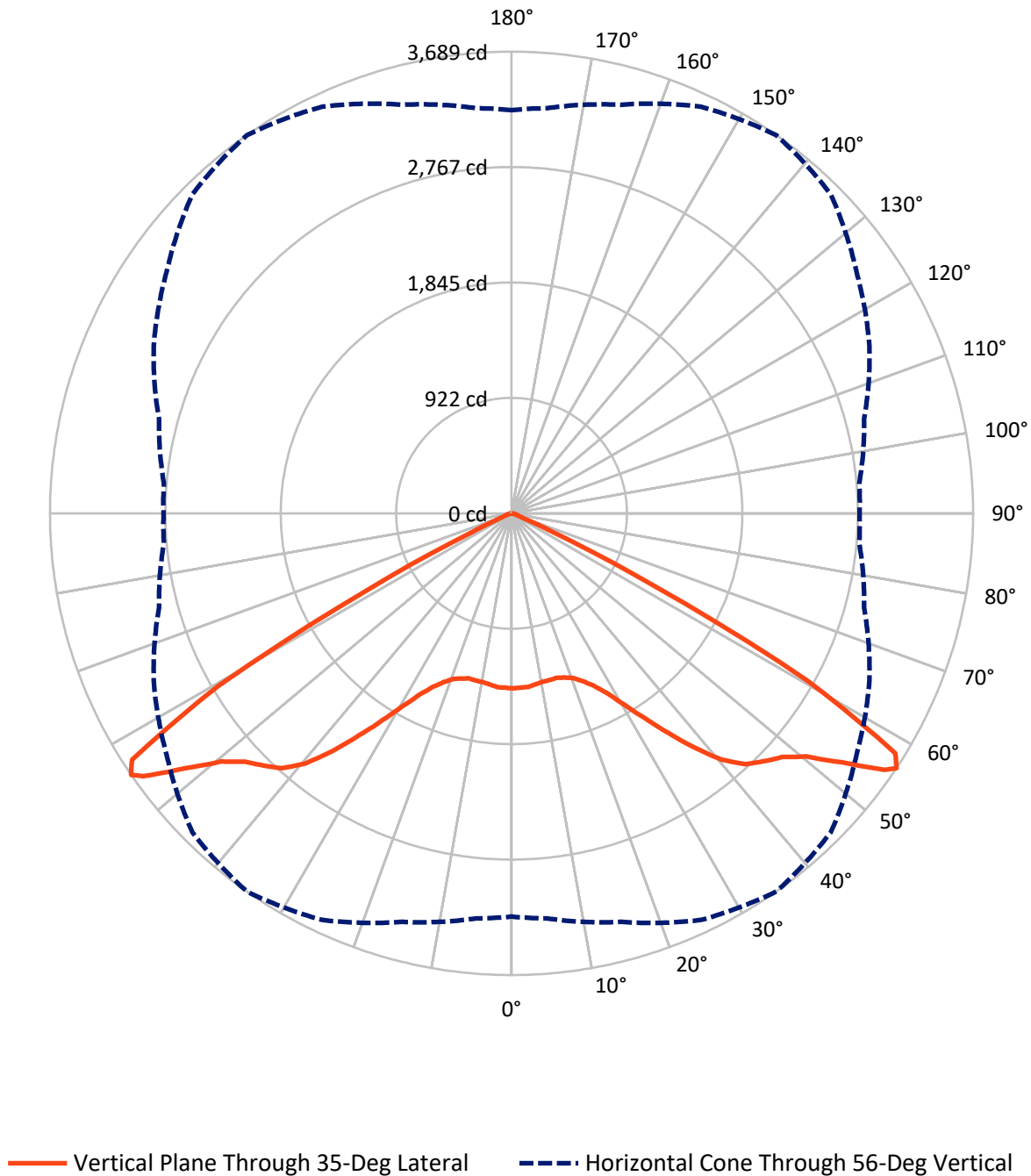
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type V - Short - N/A

REPORT NUMBER: P529001  
CATALOG NUMBER: GLAN-SA4A-827-U-5MQ-GRSBK

## Luminous Intensity Polar Plot



REPORT NUMBER: P529001

CATALOG NUMBER: GLAN-SA4A-827-U-5MQ-GRSBK

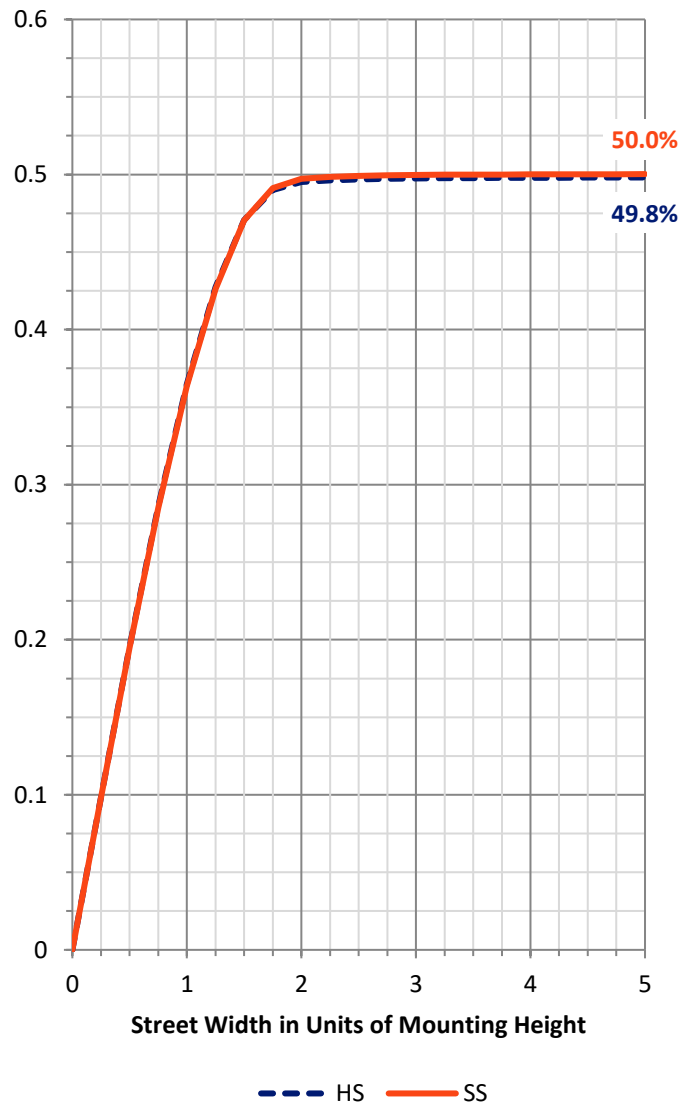
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3990.5   | 0.0    | 3990.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3990.5   | 0.0    | 3990.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 7981.0   | 0.0    | 7981.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 131.4  | 1.6       |
| 10°-20°   | 383.7  | 4.8       |
| 20°-30°   | 694.9  | 8.7       |
| 30°-40°   | 1288.5 | 16.1      |
| 40°-50°   | 2115.0 | 26.5      |
| 50°-60°   | 2724.8 | 34.1      |
| 60°-70°   | 600.5  | 7.5       |
| 70°-80°   | 34.8   | 0.4       |
| 80°-90°   | 7.3    | 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°    | 7981.0 | 100.0     |
| 0°-180°   | 7981.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P529001

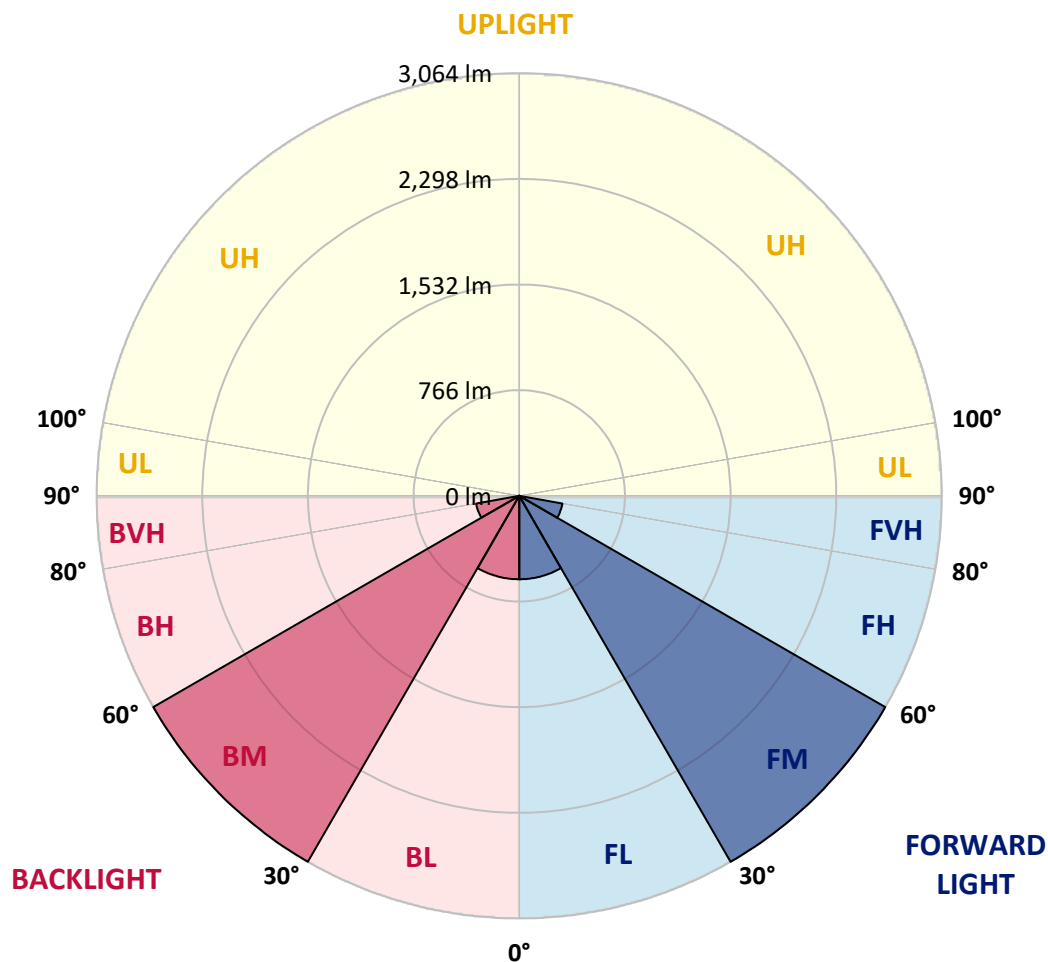
CATALOG NUMBER: GLAN-SA4A-827-U-5MQ-GRSBK

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 605.0  | 7.6       |                         |      |        |
| FM   | (30°-60°)   | 3064.2 | 38.4      |                         |      |        |
| FH   | (60°-80°)   | 317.7  | 4.0       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 3.7    | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 605.0  | 7.6       | B2/1000                 |      |        |
| BM   | (30°-60°)   | 3064.2 | 38.4      | B3/5000                 |      |        |
| BH   | (60°-80°)   | 317.7  | 4.0       | B1/500                  |      | G0/660 |
| BVH  | (80°-90°)   | 3.7    | 0.0       |                         |      | G0/10  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B3-U0-G0**

Type V Short





REPORT NUMBER: P529001

CATALOG NUMBER: GLAN-SA4A-827-U-5MQ-GRSBK

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1398.4 | 1398.4 | 1398.4 | 1398.4 | 1398.4 | 1398.4 | 1398.4 | 1398.4 | 1398.4 | 1398.4 | 1398.4 |
| 2.5°  | 1401.3 | 1401.3 | 1402.8 | 1404.2 | 1394.1 | 1389.8 | 1391.2 | 1388.3 | 1386.9 | 1391.2 | 1391.2 |
| 5°    | 1397.0 | 1397.0 | 1392.7 | 1394.1 | 1394.1 | 1381.1 | 1381.1 | 1384.0 | 1384.0 | 1375.3 | 1372.4 |
| 7.5°  | 1385.4 | 1382.5 | 1376.8 | 1384.0 | 1379.6 | 1379.6 | 1369.5 | 1362.3 | 1359.4 | 1365.2 | 1359.4 |
| 10°   | 1360.8 | 1362.3 | 1368.1 | 1371.0 | 1368.1 | 1376.8 | 1359.4 | 1349.3 | 1339.2 | 1334.8 | 1334.8 |
| 12.5° | 1349.3 | 1358.0 | 1349.3 | 1356.5 | 1366.6 | 1359.4 | 1349.3 | 1342.0 | 1327.6 | 1321.8 | 1321.8 |
| 15°   | 1347.8 | 1353.6 | 1356.5 | 1366.6 | 1362.3 | 1365.2 | 1344.9 | 1336.3 | 1314.6 | 1304.4 | 1300.1 |
| 17.5° | 1346.4 | 1353.6 | 1358.0 | 1376.8 | 1379.6 | 1381.1 | 1365.2 | 1339.2 | 1320.3 | 1310.2 | 1300.1 |
| 20°   | 1362.3 | 1365.2 | 1373.9 | 1392.7 | 1404.2 | 1424.5 | 1395.6 | 1368.1 | 1327.6 | 1316.0 | 1311.7 |
| 22.5° | 1382.5 | 1397.0 | 1405.7 | 1425.9 | 1456.3 | 1473.6 | 1436.0 | 1401.3 | 1359.4 | 1344.9 | 1327.6 |
| 25°   | 1447.6 | 1444.7 | 1459.2 | 1501.1 | 1525.7 | 1538.7 | 1508.4 | 1457.7 | 1402.8 | 1385.4 | 1388.3 |
| 27.5° | 1528.6 | 1531.5 | 1544.5 | 1590.8 | 1626.9 | 1647.2 | 1611.0 | 1544.5 | 1491.0 | 1462.1 | 1459.2 |
| 30°   | 1634.2 | 1631.3 | 1645.7 | 1707.9 | 1773.0 | 1803.4 | 1739.7 | 1661.6 | 1609.6 | 1572.0 | 1580.7 |
| 32.5° | 1745.5 | 1747.0 | 1787.5 | 1843.9 | 1949.4 | 2008.7 | 1906.0 | 1810.6 | 1732.5 | 1706.5 | 1693.5 |
| 35°   | 1910.4 | 1917.6 | 1949.4 | 2036.2 | 2153.3 | 2230.0 | 2117.2 | 2002.9 | 1913.3 | 1865.6 | 1871.3 |
| 37.5° | 2114.3 | 2107.1 | 2160.6 | 2254.6 | 2377.5 | 2433.9 | 2338.5 | 2208.3 | 2117.2 | 2085.4 | 2105.6 |
| 40°   | 2331.2 | 2338.5 | 2365.9 | 2451.3 | 2588.6 | 2626.2 | 2484.5 | 2413.7 | 2334.1 | 2318.2 | 2342.8 |
| 42.5° | 2548.1 | 2543.8 | 2564.1 | 2640.7 | 2740.5 | 2714.5 | 2630.6 | 2588.6 | 2532.2 | 2500.4 | 2533.7 |
| 45°   | 2707.2 | 2700.0 | 2737.6 | 2789.7 | 2825.8 | 2776.6 | 2739.0 | 2724.6 | 2695.7 | 2660.9 | 2691.3 |
| 47.5° | 2862.0 | 2856.2 | 2892.3 | 2906.8 | 2909.7 | 2844.6 | 2851.8 | 2877.9 | 2805.6 | 2733.3 | 2768.0 |
| 50°   | 2993.6 | 2983.4 | 3028.3 | 3060.1 | 3052.9 | 2948.7 | 2974.8 | 2948.7 | 2835.9 | 2750.6 | 2737.6 |
| 52.5° | 3213.4 | 3217.7 | 3265.4 | 3323.3 | 3305.9 | 3219.2 | 3181.6 | 3063.0 | 2918.4 | 2841.7 | 2796.9 |
| 55°   | 3352.2 | 3330.5 | 3413.0 | 3596.6 | 3616.9 | 3527.2 | 3360.9 | 3185.9 | 2969.0 | 2875.0 | 2863.4 |
| 56°   | 3222.1 | 3249.5 | 3379.7 | 3585.0 | 3689.2 | 3606.7 | 3365.2 | 3155.5 | 2916.9 | 2789.7 | 2781.0 |
| 57.5° | 2890.9 | 2876.4 | 3052.9 | 3333.4 | 3616.9 | 3582.2 | 3246.6 | 2938.6 | 2660.9 | 2517.8 | 2500.4 |
| 60°   | 1799.0 | 1841.0 | 1995.7 | 2342.8 | 2721.7 | 2739.0 | 2406.4 | 2141.8 | 1817.8 | 1690.6 | 1720.9 |
| 62.5° | 704.3  | 668.1  | 765.0  | 1023.9 | 1284.2 | 1342.0 | 1216.2 | 1010.9 | 830.1  | 704.3  | 695.6  |
| 65°   | 163.4  | 159.1  | 179.3  | 247.3  | 345.6  | 400.6  | 380.3  | 273.3  | 201.0  | 190.9  | 176.4  |
| 67.5° | 92.6   | 92.6   | 88.2   | 88.2   | 96.9   | 102.7  | 98.3   | 96.9   | 101.2  | 105.6  | 104.1  |
| 70°   | 65.1   | 63.6   | 60.7   | 62.2   | 59.3   | 59.3   | 63.6   | 70.9   | 76.6   | 76.6   | 78.1   |
| 72.5° | 39.0   | 39.0   | 39.0   | 43.4   | 43.4   | 43.4   | 47.7   | 53.5   | 55.0   | 53.5   | 52.1   |
| 75°   | 17.4   | 17.4   | 20.2   | 24.6   | 27.5   | 28.9   | 33.3   | 36.2   | 39.0   | 36.2   | 33.3   |
| 77.5° | 4.3    | 4.3    | 7.2    | 10.1   | 13.0   | 15.9   | 21.7   | 26.0   | 27.5   | 26.0   | 21.7   |
| 80°   | 1.4    | 1.4    | 2.9    | 7.2    | 13.0   | 15.9   | 21.7   | 23.1   | 24.6   | 21.7   | 17.4   |
| 82.5° | 1.4    | 1.4    | 2.9    | 7.2    | 10.1   | 13.0   | 17.4   | 20.2   | 21.7   | 18.8   | 17.4   |
| 85°   | 0.0    | 1.4    | 2.9    | 5.8    | 8.7    | 11.6   | 11.6   | 8.7    | 7.2    | 4.3    | 5.8    |
| 87.5° | 0.0    | 0.0    | 1.4    | 1.4    | 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)