

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: P528308

Luminaire Tested: **GLAN-SA3B-827-U-RW-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528308  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3B-827-U-RW-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10941 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

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



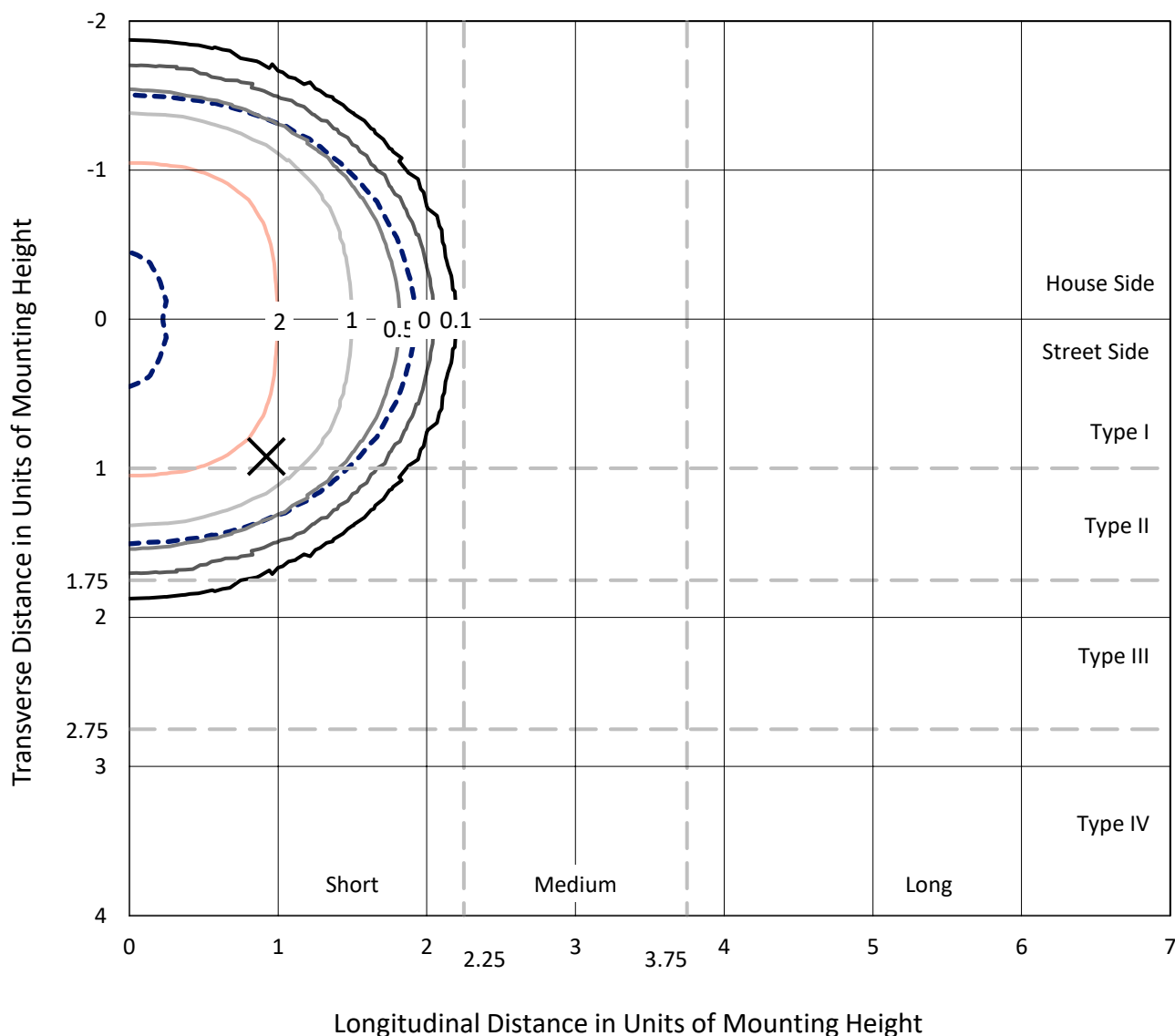
REPORT NUMBER: P528308

CATALOG NUMBER: GLAN-SA3B-827-U-RW-GRSWH

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

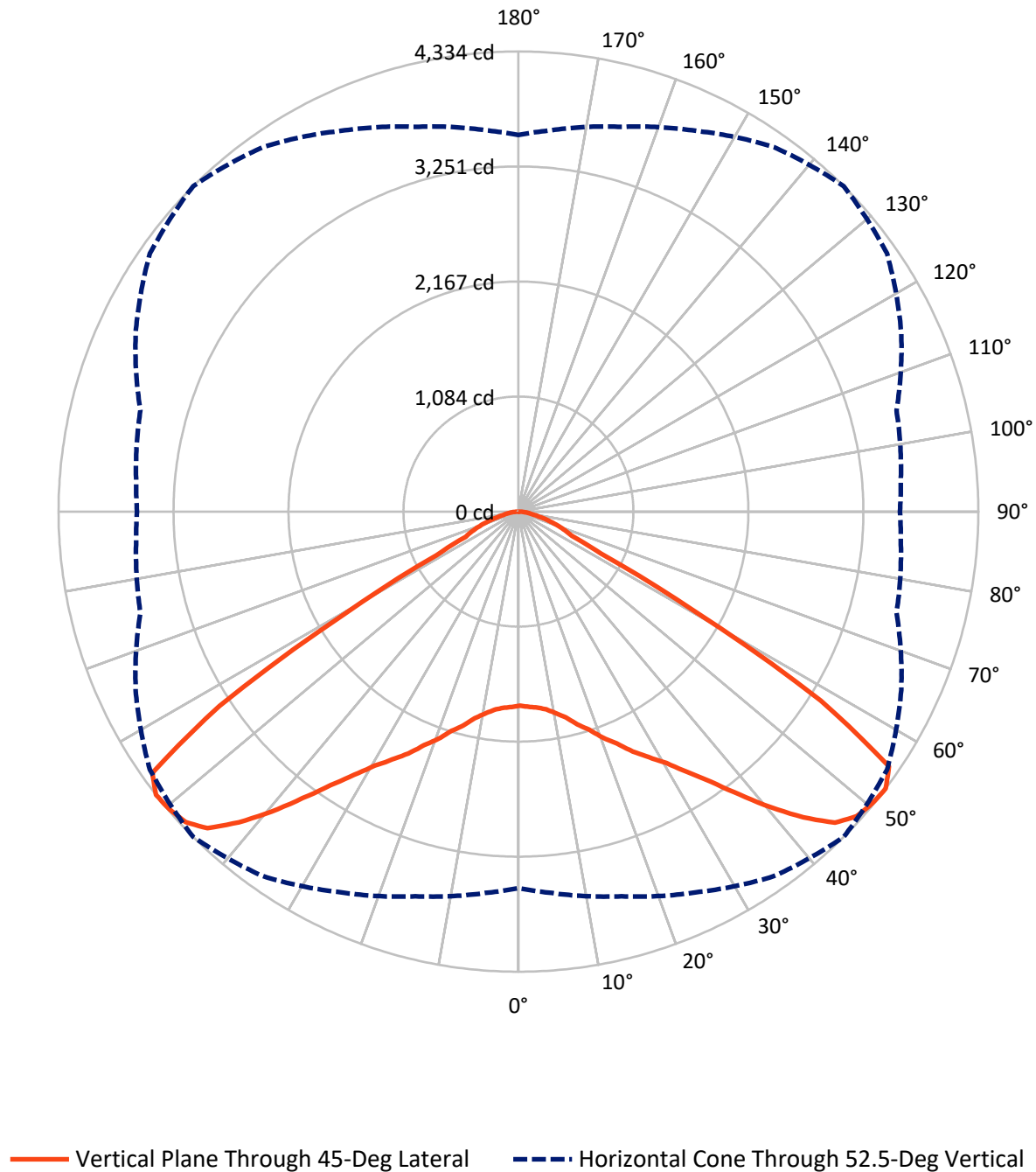


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc

Type V - Short - N/A

REPORT NUMBER: P528308  
CATALOG NUMBER: GLAN-SA3B-827-U-RW-GRSWH

## Luminous Intensity Polar Plot



REPORT NUMBER: P528308

CATALOG NUMBER: GLAN-SA3B-827-U-RW-GRSWH

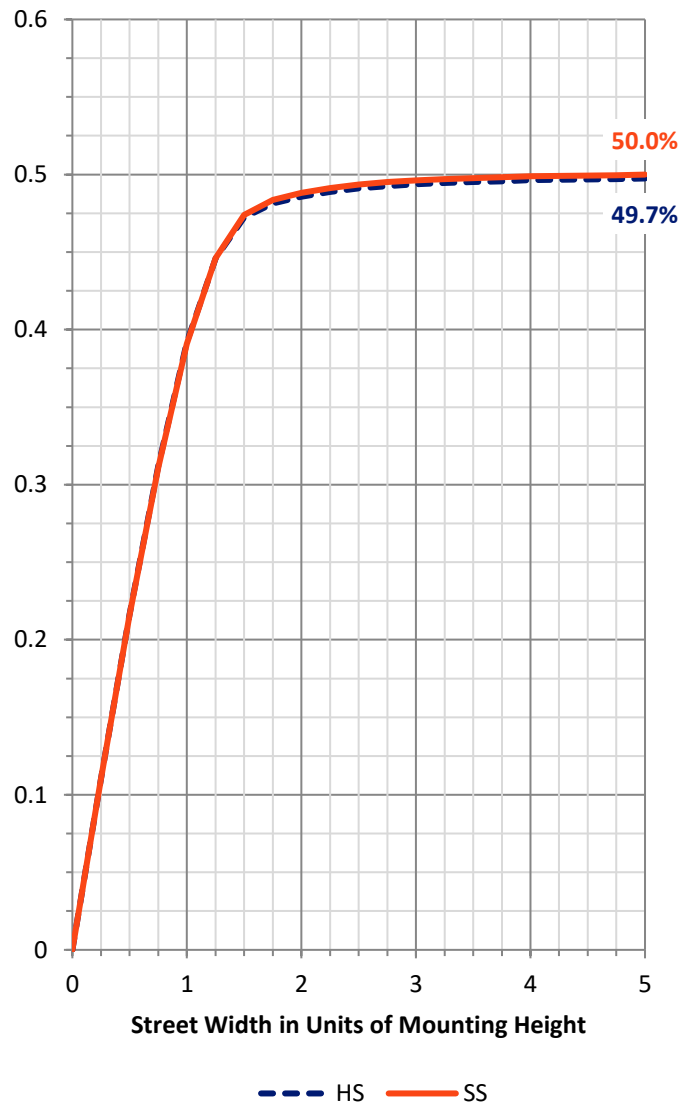
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5470.5   | 0.0    | 5470.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5470.5   | 0.0    | 5470.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 10941.0  | 0.0    | 10941.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 179.7   | 1.6       |
| 10°-20°   | 590.4   | 5.4       |
| 20°-30°   | 1124.1  | 10.3      |
| 30°-40°   | 1930.2  | 17.6      |
| 40°-50°   | 2966.7  | 27.1      |
| 50°-60°   | 3012.7  | 27.5      |
| 60°-70°   | 839.6   | 7.7       |
| 70°-80°   | 247.7   | 2.3       |
| 80°-90°   | 49.9    | 0.5       |
| 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°    | 10941.0 | 100.0     |
| 0°-180°   | 10941.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P528308

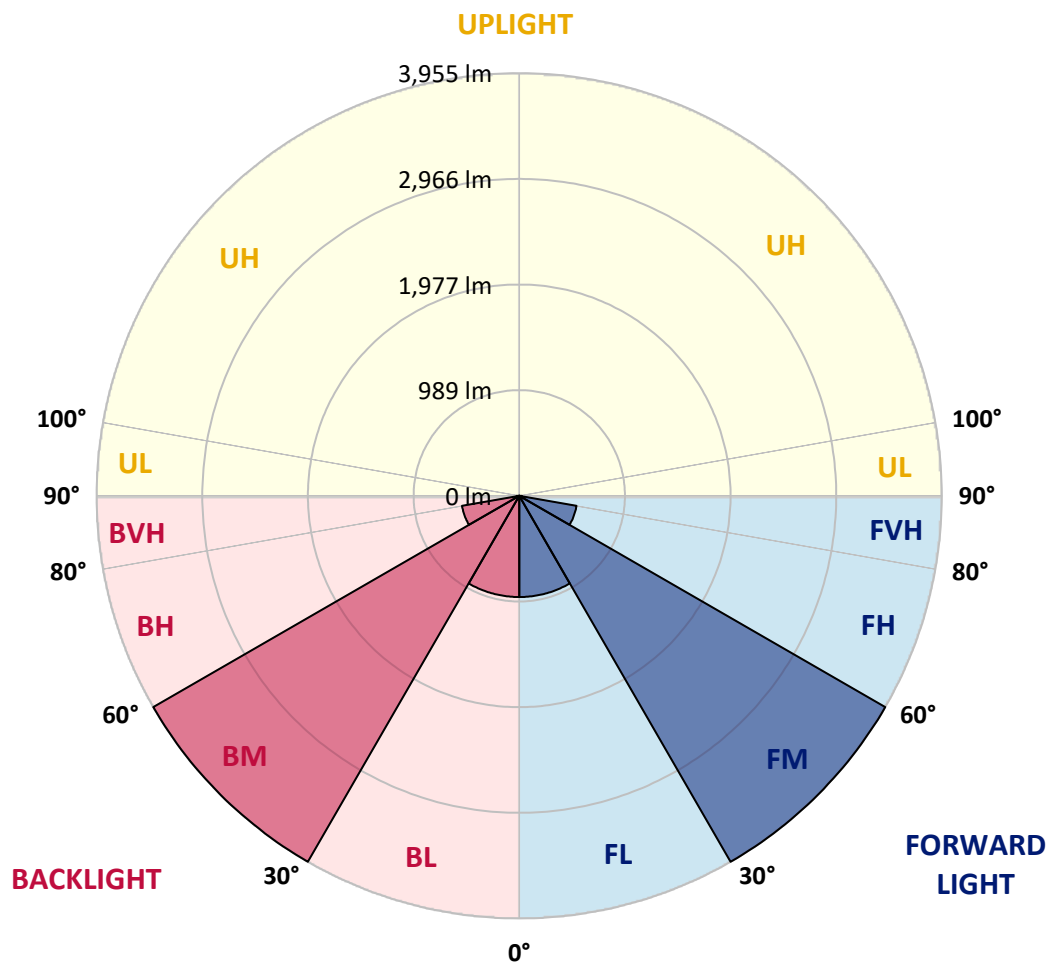
CATALOG NUMBER: GLAN-SA3B-827-U-RW-GRSWH

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 947.1  | 8.7       |                         |      |        |
| FM   | (30°-60°)   | 3954.8 | 36.1      |                         |      |        |
| FH   | (60°-80°)   | 543.6  | 5.0       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 24.9   | 0.2       |                         |      | G1/100 |
| BL   | (0°-30°)    | 947.1  | 8.7       | B2/1000                 |      |        |
| BM   | (30°-60°)   | 3954.8 | 36.1      | B3/5000                 |      |        |
| BH   | (60°-80°)   | 543.6  | 5.0       | B2/1000                 |      | G0/660 |
| BVH  | (80°-90°)   | 24.9   | 0.2       |                         |      | G1/100 |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B3-U0-G1**

Type V Short





REPORT NUMBER: P528308

CATALOG NUMBER: GLAN-SA3B-827-U-RW-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1828.9 | 1828.9 | 1828.9 | 1828.9 | 1828.9 | 1828.9 | 1828.9 | 1828.9 | 1828.9 | 1828.9 | 1828.9 |
| 2.5°  | 1833.0 | 1814.0 | 1820.8 | 1824.9 | 1842.5 | 1841.2 | 1837.1 | 1842.5 | 1847.9 | 1849.3 | 1846.6 |
| 5°    | 1831.6 | 1818.1 | 1823.5 | 1827.6 | 1845.2 | 1854.7 | 1852.0 | 1875.1 | 1891.4 | 1887.3 | 1907.7 |
| 7.5°  | 1820.8 | 1828.9 | 1822.1 | 1842.5 | 1857.4 | 1880.5 | 1905.0 | 1926.7 | 1947.1 | 1970.1 | 1974.2 |
| 10°   | 1845.2 | 1845.2 | 1857.4 | 1873.7 | 1913.1 | 1930.8 | 1966.1 | 1997.3 | 2036.7 | 2063.8 | 2053.0 |
| 12.5° | 1871.0 | 1875.1 | 1875.1 | 1917.2 | 1949.8 | 1989.2 | 2021.7 | 2063.8 | 2119.5 | 2152.1 | 2168.4 |
| 15°   | 1896.8 | 1899.5 | 1913.1 | 1970.1 | 2019.0 | 2081.5 | 2111.4 | 2149.4 | 2180.6 | 2241.7 | 2243.1 |
| 17.5° | 1919.9 | 1934.8 | 1975.6 | 2039.4 | 2100.5 | 2160.2 | 2207.8 | 2247.1 | 2274.3 | 2298.7 | 2293.3 |
| 20°   | 2006.8 | 2017.7 | 2059.8 | 2123.6 | 2214.5 | 2272.9 | 2289.2 | 2296.0 | 2313.7 | 2362.5 | 2347.6 |
| 22.5° | 2091.0 | 2095.1 | 2134.4 | 2232.2 | 2296.0 | 2373.4 | 2391.1 | 2387.0 | 2393.8 | 2406.0 | 2427.7 |
| 25°   | 2177.9 | 2184.7 | 2239.0 | 2321.8 | 2411.4 | 2503.7 | 2518.7 | 2487.5 | 2478.0 | 2491.5 | 2492.9 |
| 27.5° | 2289.2 | 2290.6 | 2359.8 | 2431.8 | 2533.6 | 2620.5 | 2643.6 | 2619.2 | 2574.4 | 2585.2 | 2602.9 |
| 30°   | 2430.4 | 2420.9 | 2490.2 | 2593.4 | 2700.6 | 2749.5 | 2788.9 | 2776.7 | 2727.8 | 2718.3 | 2703.3 |
| 32.5° | 2593.4 | 2596.1 | 2658.5 | 2771.2 | 2841.8 | 2923.3 | 2965.4 | 2945.0 | 2913.8 | 2897.5 | 2907.0 |
| 35°   | 2822.8 | 2835.0 | 2877.1 | 2970.8 | 3084.9 | 3125.6 | 3192.1 | 3148.7 | 3067.2 | 3087.6 | 3105.2 |
| 37.5° | 3011.6 | 3046.9 | 3125.6 | 3237.0 | 3304.8 | 3379.5 | 3404.0 | 3345.6 | 3285.8 | 3261.4 | 3319.8 |
| 40°   | 3300.8 | 3289.9 | 3376.8 | 3488.1 | 3588.6 | 3663.3 | 3632.1 | 3573.7 | 3425.7 | 3427.0 | 3443.3 |
| 42.5° | 3549.2 | 3554.7 | 3621.2 | 3754.3 | 3891.4 | 3937.6 | 3838.4 | 3695.9 | 3531.6 | 3513.9 | 3549.2 |
| 45°   | 3758.3 | 3780.1 | 3818.1 | 3996.0 | 4130.4 | 4180.6 | 3997.3 | 3828.9 | 3609.0 | 3535.7 | 3594.0 |
| 47.5° | 3833.0 | 3868.3 | 3951.1 | 4114.1 | 4247.1 | 4287.9 | 4141.2 | 3899.5 | 3680.9 | 3561.5 | 3592.7 |
| 50°   | 3843.9 | 3831.7 | 3967.4 | 4116.8 | 4233.6 | 4321.8 | 4192.8 | 3951.1 | 3663.3 | 3600.8 | 3591.3 |
| 52.5° | 3546.5 | 3606.3 | 3751.6 | 3956.6 | 4192.8 | 4334.0 | 4239.0 | 3979.7 | 3687.7 | 3617.1 | 3594.0 |
| 55°   | 2870.4 | 2799.7 | 3064.5 | 3409.4 | 3843.9 | 4236.3 | 4222.7 | 3994.6 | 3702.7 | 3644.3 | 3613.1 |
| 57.5° | 1602.2 | 1622.5 | 1771.9 | 2146.7 | 2707.4 | 3359.2 | 3754.3 | 3837.1 | 3695.9 | 3661.9 | 3678.2 |
| 60°   | 741.3  | 748.1  | 812.0  | 987.1  | 1334.7 | 1905.0 | 2425.0 | 2953.2 | 3196.2 | 3245.1 | 3245.1 |
| 62.5° | 552.6  | 549.9  | 566.2  | 597.4  | 670.7  | 875.8  | 1169.1 | 1588.6 | 1922.6 | 2156.2 | 2217.3 |
| 65°   | 499.7  | 498.3  | 506.5  | 517.3  | 522.7  | 551.3  | 616.4  | 745.4  | 854.0  | 916.5  | 905.6  |
| 67.5° | 437.2  | 435.8  | 438.6  | 445.4  | 454.9  | 469.8  | 486.1  | 513.2  | 551.3  | 548.5  | 541.8  |
| 70°   | 353.0  | 353.0  | 357.1  | 362.5  | 373.4  | 391.0  | 410.1  | 429.1  | 461.6  | 468.4  | 467.1  |
| 72.5° | 260.7  | 256.6  | 264.8  | 275.6  | 286.5  | 308.2  | 328.6  | 346.2  | 369.3  | 376.1  | 373.4  |
| 75°   | 165.6  | 168.4  | 173.8  | 186.0  | 205.0  | 220.0  | 241.7  | 256.6  | 271.6  | 277.0  | 278.3  |
| 77.5° | 92.3   | 95.0   | 104.5  | 119.5  | 138.5  | 154.8  | 173.8  | 186.0  | 195.5  | 196.9  | 198.2  |
| 80°   | 55.7   | 57.0   | 66.5   | 80.1   | 96.4   | 114.1  | 129.0  | 141.2  | 149.4  | 145.3  | 143.9  |
| 82.5° | 33.9   | 35.3   | 43.4   | 55.7   | 69.2   | 82.8   | 99.1   | 110.0  | 118.1  | 112.7  | 107.3  |
| 85°   | 17.7   | 19.0   | 25.8   | 33.9   | 44.8   | 51.6   | 51.6   | 46.2   | 44.8   | 42.1   | 40.7   |
| 87.5° | 5.4    | 5.4    | 6.8    | 8.1    | 6.8    | 8.1    | 9.5    | 10.9   | 10.9   | 12.2   | 10.9   |
| 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)