

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: P451380

Luminaire Tested: **GLAN-SA2B-730-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451380  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2B-730-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10876 lumens  
Efficiency: N/A  
Efficacy: 132.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

Input Watts (W): 82  
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

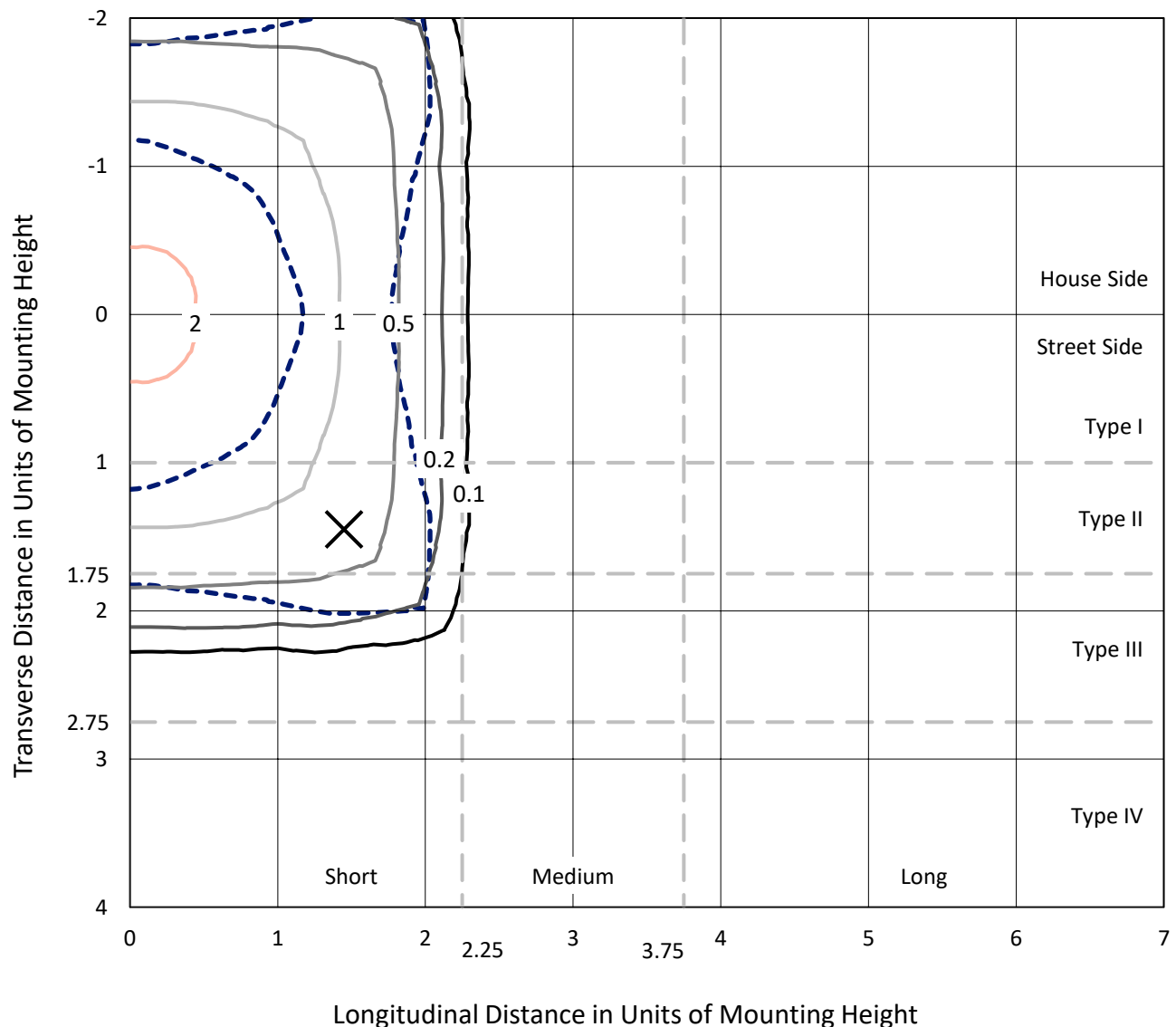


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

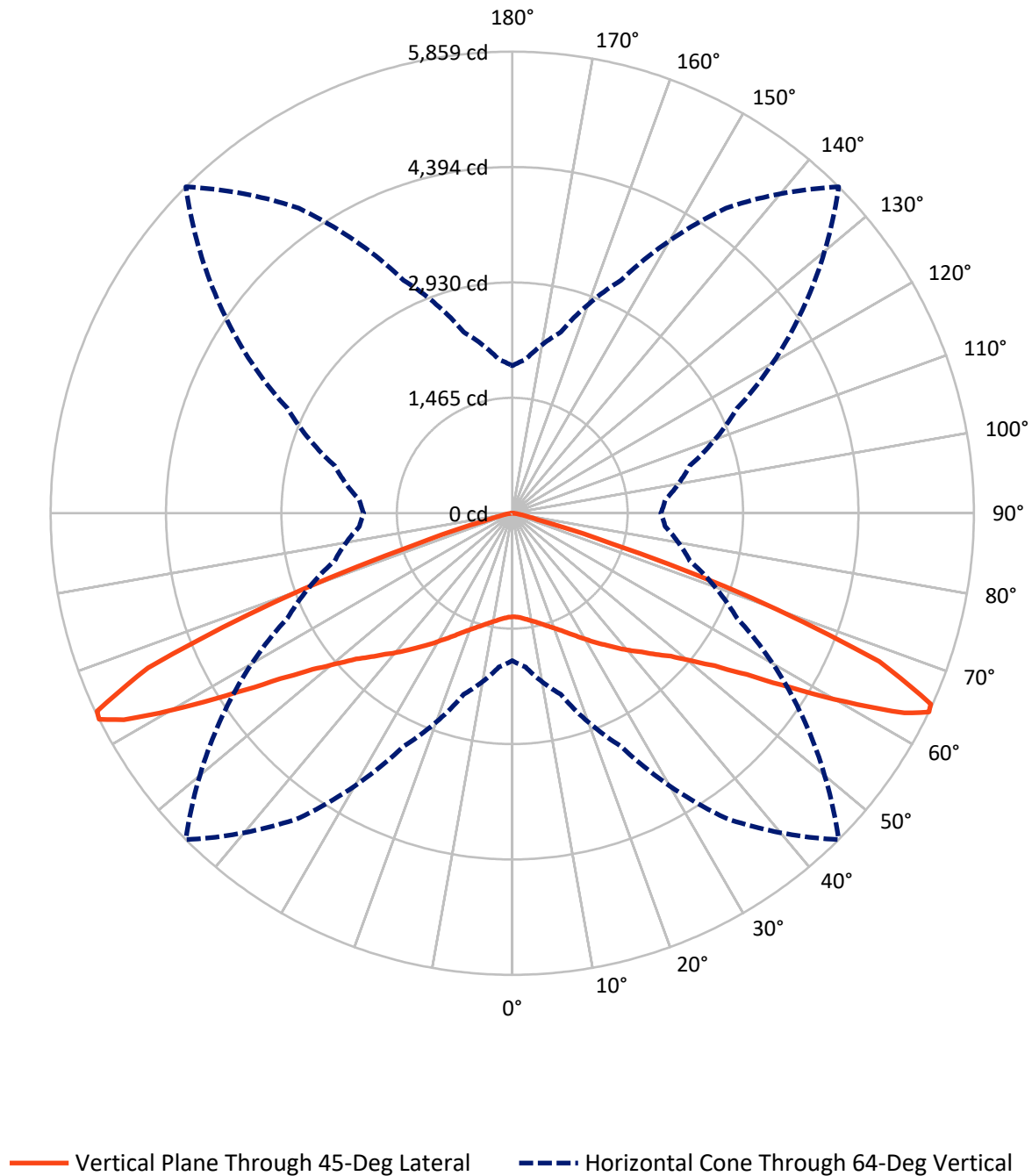


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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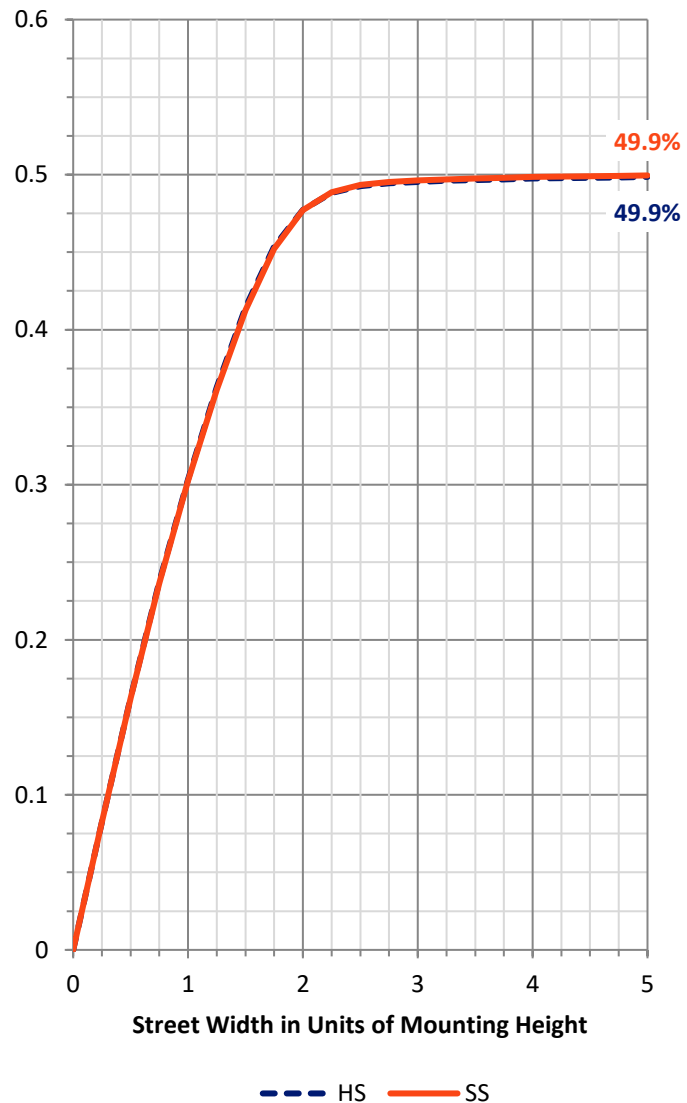
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5438.0   | 0.0    | 5438.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5438.0   | 0.0    | 5438.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 10876.0  | 0.0    | 10876.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 129.1   | 1.2       |
| 10°-20°   | 416.6   | 3.8       |
| 20°-30°   | 787.2   | 7.2       |
| 30°-40°   | 1303.7  | 12.0      |
| 40°-50°   | 2035.3  | 18.7      |
| 50°-60°   | 3146.5  | 28.9      |
| 60°-70°   | 2713.2  | 24.9      |
| 70°-80°   | 307.5   | 2.8       |
| 80°-90°   | 36.8    | 0.3       |
| 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°    | 10876.0 | 100.0     |
| 0°-180°   | 10876.0 | 100.0     |

**Coefficient of Utilization**



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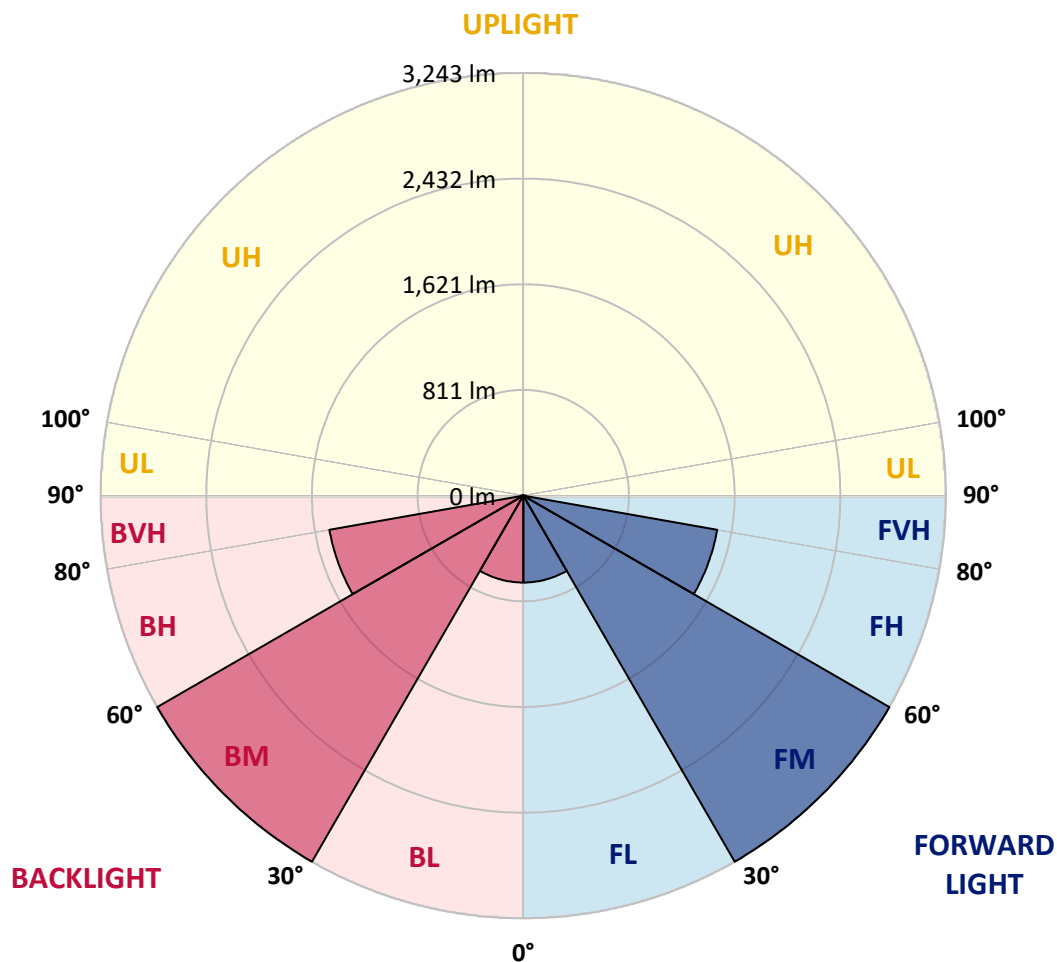
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 666.5  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 3242.8 | 29.8      |                         |      |         |
| FH   | (60°-80°)   | 1510.3 | 13.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 18.4   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 666.5  | 6.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3242.8 | 29.8      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1510.3 | 13.9      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 18.4   | 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





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1314.5 | 1314.5 | 1314.5 | 1314.5 | 1314.5 | 1314.5 | 1314.5 | 1314.5 | 1314.5 | 1314.5 | 1314.5 |
| 2.5°  | 1319.7 | 1322.6 | 1320.3 | 1319.7 | 1319.2 | 1319.2 | 1319.2 | 1319.7 | 1322.0 | 1323.8 | 1322.6 |
| 5°    | 1336.4 | 1338.7 | 1337.6 | 1337.0 | 1336.4 | 1337.0 | 1335.9 | 1335.3 | 1337.0 | 1337.0 | 1336.4 |
| 7.5°  | 1357.2 | 1360.1 | 1358.9 | 1360.1 | 1360.6 | 1361.2 | 1358.3 | 1356.0 | 1355.4 | 1357.2 | 1356.0 |
| 10°   | 1385.4 | 1387.7 | 1388.3 | 1388.9 | 1390.0 | 1389.4 | 1386.0 | 1381.9 | 1381.4 | 1380.8 | 1380.2 |
| 12.5° | 1417.1 | 1418.8 | 1419.4 | 1421.7 | 1423.4 | 1424.0 | 1420.0 | 1416.5 | 1410.7 | 1411.9 | 1409.6 |
| 15°   | 1452.8 | 1456.3 | 1455.7 | 1459.1 | 1463.7 | 1464.9 | 1460.9 | 1455.1 | 1449.9 | 1447.0 | 1445.3 |
| 17.5° | 1496.6 | 1498.9 | 1497.7 | 1501.2 | 1506.9 | 1509.8 | 1506.4 | 1498.9 | 1493.7 | 1487.4 | 1483.9 |
| 20°   | 1548.4 | 1552.5 | 1553.6 | 1553.6 | 1558.8 | 1561.7 | 1556.5 | 1554.2 | 1546.1 | 1541.5 | 1538.6 |
| 22.5° | 1607.2 | 1608.9 | 1612.4 | 1615.8 | 1621.0 | 1619.9 | 1618.1 | 1614.7 | 1607.2 | 1603.1 | 1598.5 |
| 25°   | 1673.4 | 1675.2 | 1683.8 | 1691.3 | 1693.0 | 1691.9 | 1689.6 | 1687.8 | 1680.9 | 1671.7 | 1668.2 |
| 27.5° | 1750.6 | 1754.1 | 1765.6 | 1772.5 | 1772.5 | 1773.1 | 1768.5 | 1774.2 | 1759.3 | 1748.3 | 1747.2 |
| 30°   | 1847.4 | 1849.7 | 1859.5 | 1866.4 | 1862.9 | 1860.1 | 1858.9 | 1864.7 | 1848.5 | 1829.0 | 1824.4 |
| 32.5° | 1943.0 | 1951.1 | 1959.7 | 1974.7 | 1962.6 | 1957.4 | 1956.3 | 1960.3 | 1941.9 | 1920.0 | 1913.6 |
| 35°   | 2045.6 | 2051.3 | 2067.4 | 2080.1 | 2069.2 | 2057.1 | 2062.3 | 2074.9 | 2053.0 | 2023.7 | 2022.5 |
| 37.5° | 2159.0 | 2164.2 | 2185.0 | 2198.2 | 2190.1 | 2169.4 | 2178.0 | 2193.0 | 2171.1 | 2134.8 | 2127.4 |
| 40°   | 2277.1 | 2288.1 | 2314.0 | 2327.8 | 2314.6 | 2286.9 | 2303.1 | 2319.2 | 2299.6 | 2257.5 | 2240.8 |
| 42.5° | 2409.6 | 2426.9 | 2464.3 | 2471.3 | 2445.9 | 2408.5 | 2436.7 | 2462.6 | 2448.8 | 2400.4 | 2394.1 |
| 45°   | 2564.6 | 2574.9 | 2621.0 | 2636.0 | 2600.9 | 2554.2 | 2589.3 | 2636.6 | 2626.2 | 2570.3 | 2558.2 |
| 47.5° | 2738.0 | 2747.8 | 2795.6 | 2818.0 | 2773.7 | 2710.9 | 2774.3 | 2835.9 | 2829.6 | 2769.7 | 2763.9 |
| 50°   | 2943.0 | 2945.3 | 3011.6 | 3036.9 | 2992.6 | 2938.4 | 2994.9 | 3071.5 | 3046.2 | 2969.5 | 2968.4 |
| 52.5° | 3167.7 | 3170.6 | 3254.1 | 3303.1 | 3278.3 | 3217.2 | 3284.1 | 3330.7 | 3266.2 | 3166.0 | 3158.5 |
| 55°   | 3362.4 | 3376.8 | 3490.9 | 3621.1 | 3655.0 | 3610.7 | 3630.8 | 3609.0 | 3450.0 | 3309.4 | 3287.5 |
| 57.5° | 3441.9 | 3470.1 | 3643.5 | 3886.6 | 4107.8 | 4173.5 | 4018.0 | 3809.4 | 3523.1 | 3324.4 | 3303.1 |
| 60°   | 3247.8 | 3278.3 | 3547.3 | 4008.7 | 4573.3 | 4858.4 | 4421.2 | 3843.4 | 3356.6 | 3077.3 | 3043.9 |
| 62.5° | 2600.9 | 2609.5 | 3005.3 | 3721.3 | 4844.6 | 5583.1 | 4591.1 | 3553.7 | 2872.2 | 2492.6 | 2479.3 |
| 64°   | 1871.6 | 1960.3 | 2379.7 | 3262.8 | 4725.9 | 5859.0 | 4493.2 | 3147.5 | 2333.0 | 1948.8 | 1886.6 |
| 65°   | 1399.8 | 1424.0 | 1918.2 | 2786.4 | 4516.8 | 5838.3 | 4303.1 | 2759.3 | 1932.1 | 1491.4 | 1422.3 |
| 67.5° | 528.8  | 531.7  | 708.0  | 1388.9 | 3215.5 | 5023.2 | 3284.1 | 1501.2 | 814.0  | 588.7  | 567.4  |
| 70°   | 219.5  | 223.5  | 259.8  | 467.2  | 1381.9 | 3225.3 | 1583.6 | 541.5  | 297.8  | 241.4  | 237.9  |
| 72.5° | 160.7  | 163.0  | 174.0  | 207.4  | 425.1  | 1324.3 | 520.7  | 229.8  | 174.5  | 156.1  | 154.4  |
| 75°   | 126.2  | 127.3  | 135.4  | 152.7  | 198.2  | 366.9  | 216.6  | 157.8  | 133.1  | 119.8  | 118.7  |
| 77.5° | 96.2   | 99.1   | 104.8  | 116.4  | 133.1  | 174.0  | 143.4  | 118.1  | 102.5  | 91.6   | 89.9   |
| 80°   | 66.2   | 69.7   | 80.6   | 85.3   | 89.3   | 112.9  | 97.9   | 89.3   | 80.1   | 66.8   | 62.8   |
| 82.5° | 40.9   | 43.2   | 54.1   | 58.2   | 56.5   | 63.4   | 62.8   | 63.9   | 57.0   | 41.5   | 38.6   |
| 85°   | 21.3   | 22.5   | 29.4   | 30.5   | 28.2   | 25.9   | 32.3   | 37.4   | 35.1   | 23.6   | 23.0   |
| 87.5° | 4.6    | 5.2    | 6.3    | 5.8    | 6.3    | 6.3    | 8.1    | 12.1   | 12.7   | 8.1    | 7.5    |
| 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)