

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: P316308

Luminaire Tested: **GAN-SA4A-830-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316308  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4A-830-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15735 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

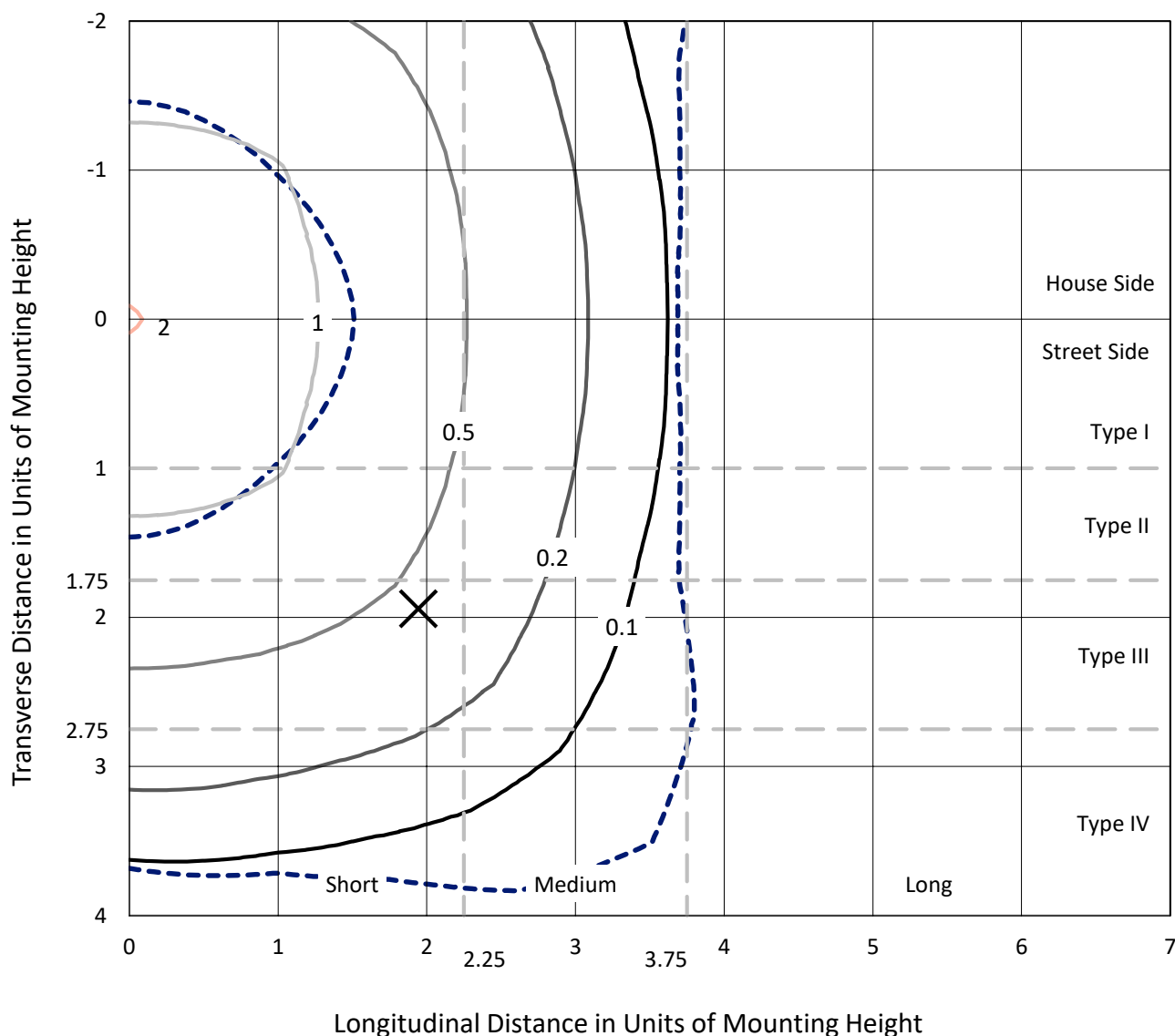
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

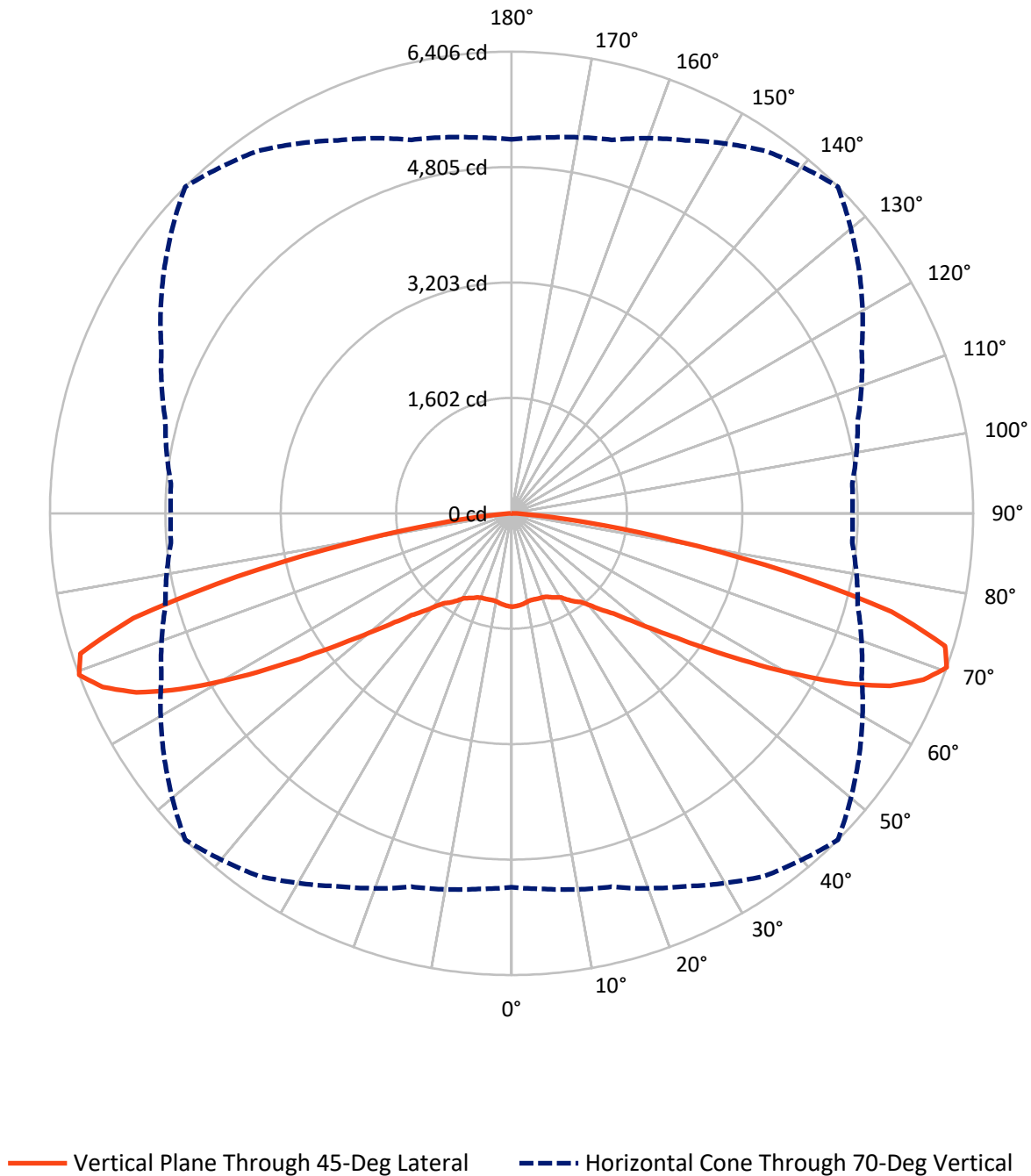
✕ Max cd  
 - - - 1/2 Max cd



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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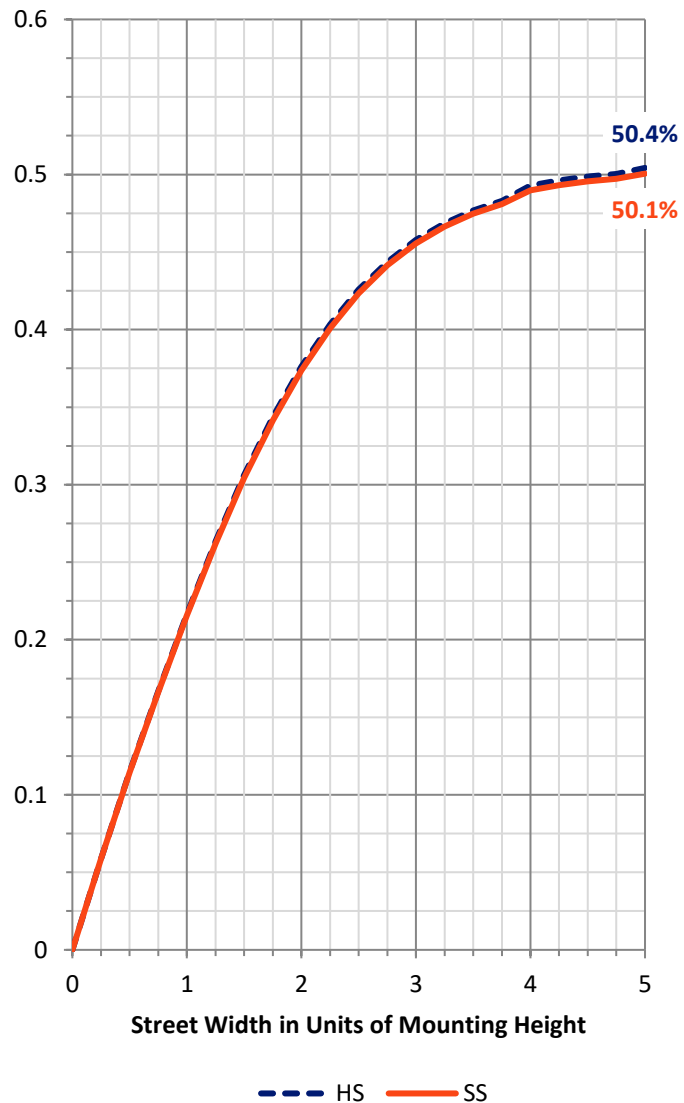
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7867.5   | 0.0    | 7867.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7867.5   | 0.0    | 7867.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 15735.0  | 0.0    | 15735.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 120.9   | 0.8       |
| 10°-20°   | 353.1   | 2.2       |
| 20°-30°   | 601.9   | 3.8       |
| 30°-40°   | 940.6   | 6.0       |
| 40°-50°   | 1594.0  | 10.1      |
| 50°-60°   | 2906.8  | 18.5      |
| 60°-70°   | 5004.3  | 31.8      |
| 70°-80°   | 3922.6  | 24.9      |
| 80°-90°   | 290.9   | 1.8       |
| 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°    | 15735.0 | 100.0     |
| 0°-180°   | 15735.0 | 100.0     |

**Coefficient of Utilization**



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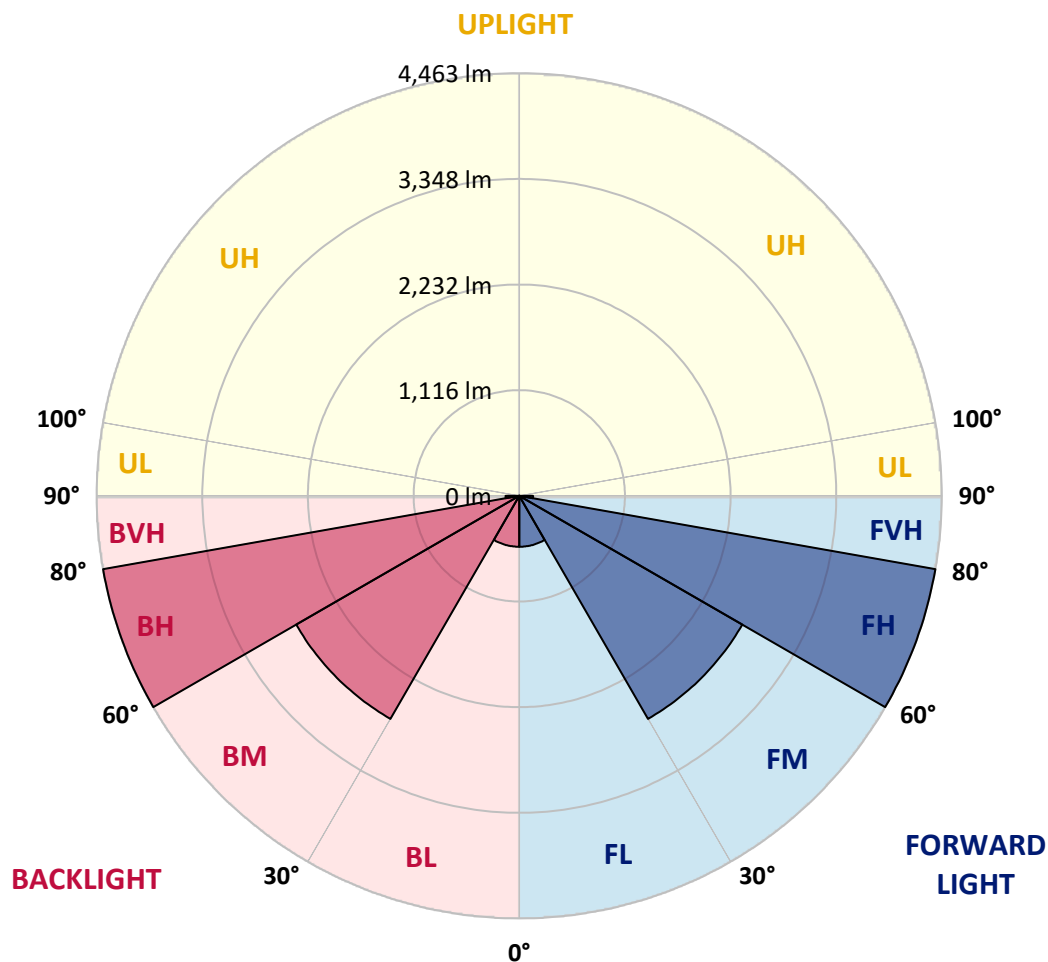
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 537.9  | 3.4       |                         |      |         |
| FM   | (30°-60°)   | 2720.7 | 17.3      |                         |      |         |
| FH   | (60°-80°)   | 4463.4 | 28.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 145.4  | 0.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 537.9  | 3.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2720.7 | 17.3      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 4463.4 | 28.4      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 145.4  | 0.9       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1295.0 | 1295.0 | 1295.0 | 1295.0 | 1295.0 | 1295.0 | 1295.0 | 1295.0 | 1295.0 | 1295.0 | 1295.0 |
| 2.5°  | 1289.3 | 1290.8 | 1289.3 | 1290.3 | 1287.7 | 1288.7 | 1288.7 | 1288.7 | 1288.2 | 1288.7 | 1287.7 |
| 5°    | 1277.8 | 1278.9 | 1276.8 | 1277.8 | 1276.3 | 1277.8 | 1278.3 | 1277.8 | 1276.8 | 1277.3 | 1275.2 |
| 7.5°  | 1260.6 | 1261.7 | 1260.1 | 1261.7 | 1259.6 | 1262.2 | 1261.7 | 1260.1 | 1258.6 | 1258.6 | 1256.5 |
| 10°   | 1251.3 | 1251.8 | 1247.6 | 1246.1 | 1241.4 | 1242.4 | 1244.0 | 1245.5 | 1247.1 | 1250.2 | 1249.7 |
| 12.5° | 1251.8 | 1251.8 | 1245.5 | 1238.8 | 1232.0 | 1233.6 | 1236.2 | 1241.9 | 1248.1 | 1253.9 | 1254.4 |
| 15°   | 1257.0 | 1256.5 | 1247.1 | 1236.2 | 1231.5 | 1236.2 | 1237.7 | 1241.4 | 1251.3 | 1261.2 | 1261.7 |
| 17.5° | 1260.6 | 1260.6 | 1246.1 | 1233.6 | 1233.1 | 1240.3 | 1239.8 | 1241.4 | 1252.3 | 1266.9 | 1267.4 |
| 20°   | 1267.4 | 1267.4 | 1248.7 | 1235.1 | 1235.1 | 1242.9 | 1243.5 | 1246.1 | 1257.0 | 1273.1 | 1275.7 |
| 22.5° | 1282.5 | 1283.0 | 1263.2 | 1252.3 | 1253.4 | 1258.0 | 1259.6 | 1263.8 | 1273.7 | 1291.3 | 1294.5 |
| 25°   | 1303.8 | 1304.9 | 1284.6 | 1278.3 | 1282.0 | 1290.8 | 1289.8 | 1292.9 | 1303.8 | 1321.0 | 1324.1 |
| 27.5° | 1333.5 | 1330.9 | 1312.2 | 1309.6 | 1313.2 | 1319.5 | 1318.9 | 1319.5 | 1328.3 | 1343.9 | 1347.6 |
| 30°   | 1372.0 | 1371.0 | 1357.5 | 1359.0 | 1357.5 | 1355.4 | 1355.9 | 1360.1 | 1364.7 | 1377.2 | 1380.9 |
| 32.5° | 1409.5 | 1410.5 | 1402.2 | 1410.0 | 1421.5 | 1429.3 | 1417.3 | 1405.9 | 1400.7 | 1407.4 | 1410.5 |
| 35°   | 1477.2 | 1479.8 | 1466.8 | 1461.6 | 1477.2 | 1500.1 | 1466.2 | 1447.5 | 1457.9 | 1466.8 | 1469.4 |
| 37.5° | 1592.2 | 1593.8 | 1571.9 | 1551.1 | 1539.6 | 1561.5 | 1527.7 | 1529.2 | 1565.7 | 1582.3 | 1581.8 |
| 40°   | 1723.4 | 1723.9 | 1709.3 | 1691.1 | 1671.3 | 1676.5 | 1663.0 | 1667.1 | 1691.1 | 1706.2 | 1710.3 |
| 42.5° | 1879.5 | 1877.9 | 1855.0 | 1829.0 | 1823.3 | 1828.5 | 1805.6 | 1802.5 | 1830.1 | 1857.1 | 1857.6 |
| 45°   | 2082.0 | 2078.3 | 2048.7 | 2020.0 | 1992.5 | 1981.0 | 1975.3 | 1990.4 | 2028.4 | 2053.4 | 2053.9 |
| 47.5° | 2300.1 | 2290.2 | 2274.6 | 2251.7 | 2227.7 | 2216.3 | 2206.9 | 2214.2 | 2241.8 | 2251.7 | 2252.7 |
| 50°   | 2524.4 | 2526.5 | 2529.6 | 2520.8 | 2511.9 | 2508.3 | 2483.8 | 2469.8 | 2478.1 | 2459.9 | 2457.3 |
| 52.5° | 2790.4 | 2794.5 | 2824.7 | 2850.2 | 2865.3 | 2873.1 | 2826.8 | 2778.4 | 2751.3 | 2715.9 | 2705.5 |
| 55°   | 3104.2 | 3111.0 | 3155.2 | 3226.0 | 3298.9 | 3337.4 | 3253.6 | 3163.1 | 3079.3 | 3013.1 | 2991.8 |
| 57.5° | 3454.0 | 3466.0 | 3526.9 | 3662.7 | 3812.1 | 3903.2 | 3761.6 | 3597.1 | 3435.3 | 3340.0 | 3323.4 |
| 60°   | 3864.2 | 3875.6 | 3959.9 | 4154.6 | 4396.6 | 4533.5 | 4319.1 | 4050.0 | 3848.5 | 3757.5 | 3726.7 |
| 62.5° | 4352.4 | 4353.4 | 4457.0 | 4684.5 | 5004.0 | 5194.5 | 4904.1 | 4544.4 | 4336.8 | 4226.9 | 4197.3 |
| 65°   | 4877.6 | 4880.2 | 4987.4 | 5233.1 | 5563.6 | 5770.7 | 5442.8 | 5068.1 | 4814.1 | 4652.2 | 4629.3 |
| 67.5° | 5248.7 | 5259.6 | 5372.6 | 5668.2 | 5977.4 | 6164.2 | 5824.9 | 5401.2 | 5107.6 | 4914.5 | 4895.3 |
| 70°   | 5189.3 | 5232.0 | 5364.7 | 5709.8 | 6139.8 | 6406.3 | 5886.8 | 5361.6 | 4974.4 | 4746.4 | 4730.3 |
| 72.5° | 4525.7 | 4607.4 | 4784.4 | 5237.2 | 5924.8 | 6291.7 | 5549.0 | 4802.1 | 4363.8 | 4169.7 | 4140.5 |
| 75°   | 3081.9 | 3214.6 | 3481.6 | 4134.8 | 5061.8 | 5447.5 | 4671.4 | 3828.8 | 3416.5 | 3148.0 | 3128.2 |
| 77.5° | 1374.1 | 1404.3 | 1742.6 | 2494.7 | 3493.0 | 3912.0 | 3394.2 | 2504.6 | 1880.0 | 1499.5 | 1419.4 |
| 80°   | 383.1  | 387.8  | 517.4  | 929.1  | 1748.3 | 2298.5 | 1876.9 | 975.9  | 548.6  | 386.7  | 364.3  |
| 82.5° | 121.8  | 132.2  | 161.4  | 241.0  | 587.6  | 1048.8 | 603.3  | 260.2  | 185.3  | 147.8  | 133.2  |
| 85°   | 59.3   | 58.8   | 81.7   | 97.9   | 149.9  | 232.1  | 159.8  | 120.8  | 105.7  | 70.3   | 63.5   |
| 87.5° | 25.0   | 25.5   | 38.0   | 34.4   | 43.7   | 37.5   | 51.5   | 54.1   | 56.7   | 31.2   | 27.1   |
| 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)