

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: P316206

Luminaire Tested: **GAN-SA2C-750-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316206  
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-SA2C-750-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15243 lumens  
Efficiency: N/A  
Efficacy: 134.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

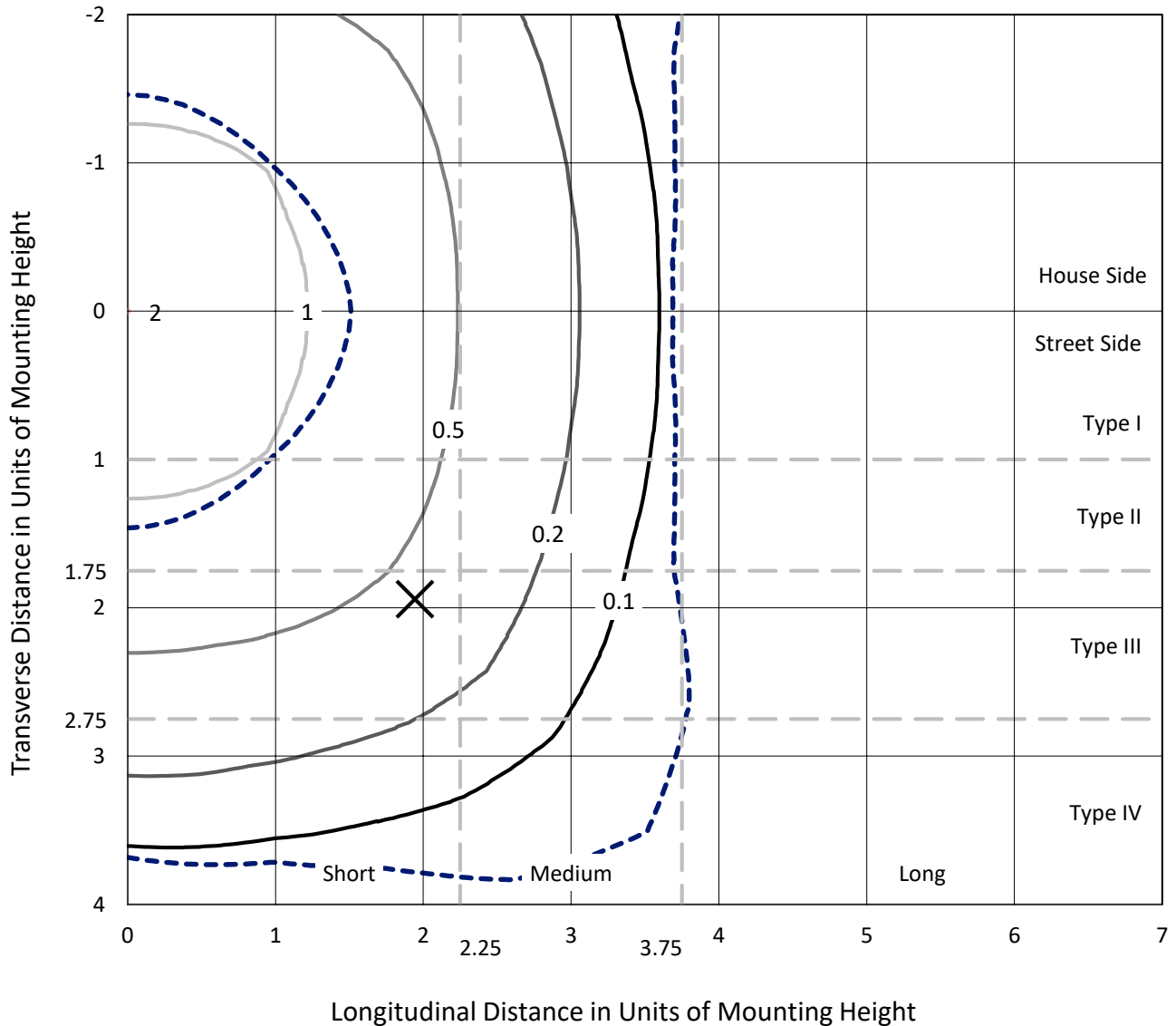
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

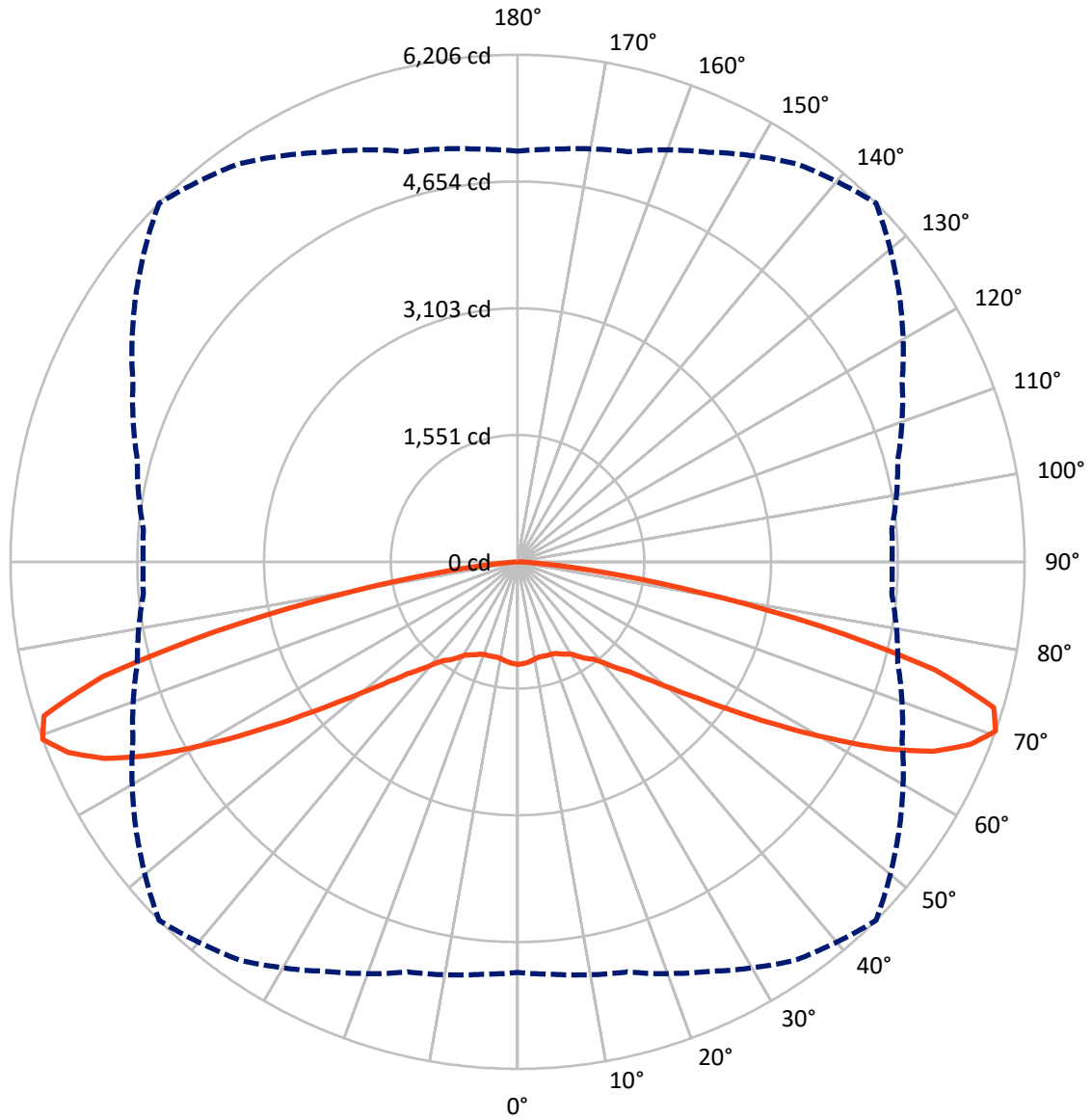
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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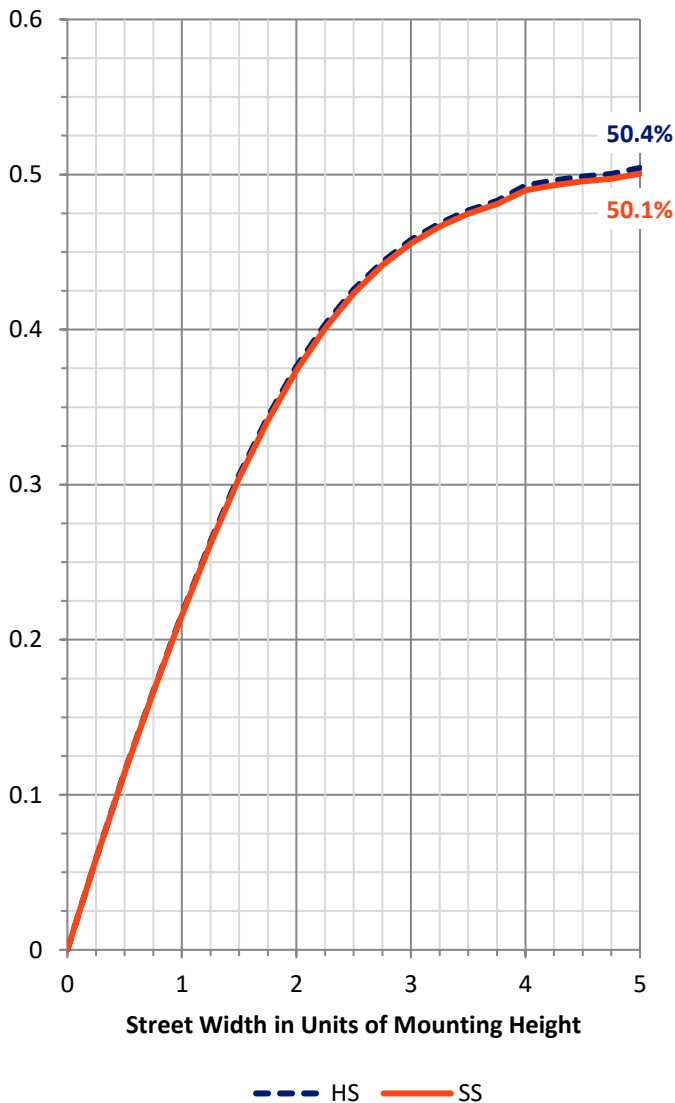
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7621.5   | 0.0    | 7621.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7621.5   | 0.0    | 7621.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 15243.0  | 0.0    | 15243.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 117.1   | 0.8       |
| 10°-20°   | 342.0   | 2.2       |
| 20°-30°   | 583.1   | 3.8       |
| 30°-40°   | 911.1   | 6.0       |
| 40°-50°   | 1544.2  | 10.1      |
| 50°-60°   | 2815.9  | 18.5      |
| 60°-70°   | 4847.8  | 31.8      |
| 70°-80°   | 3799.9  | 24.9      |
| 80°-90°   | 281.8   | 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°    | 15243.0 | 100.0     |
| 0°-180°   | 15243.0 | 100.0     |

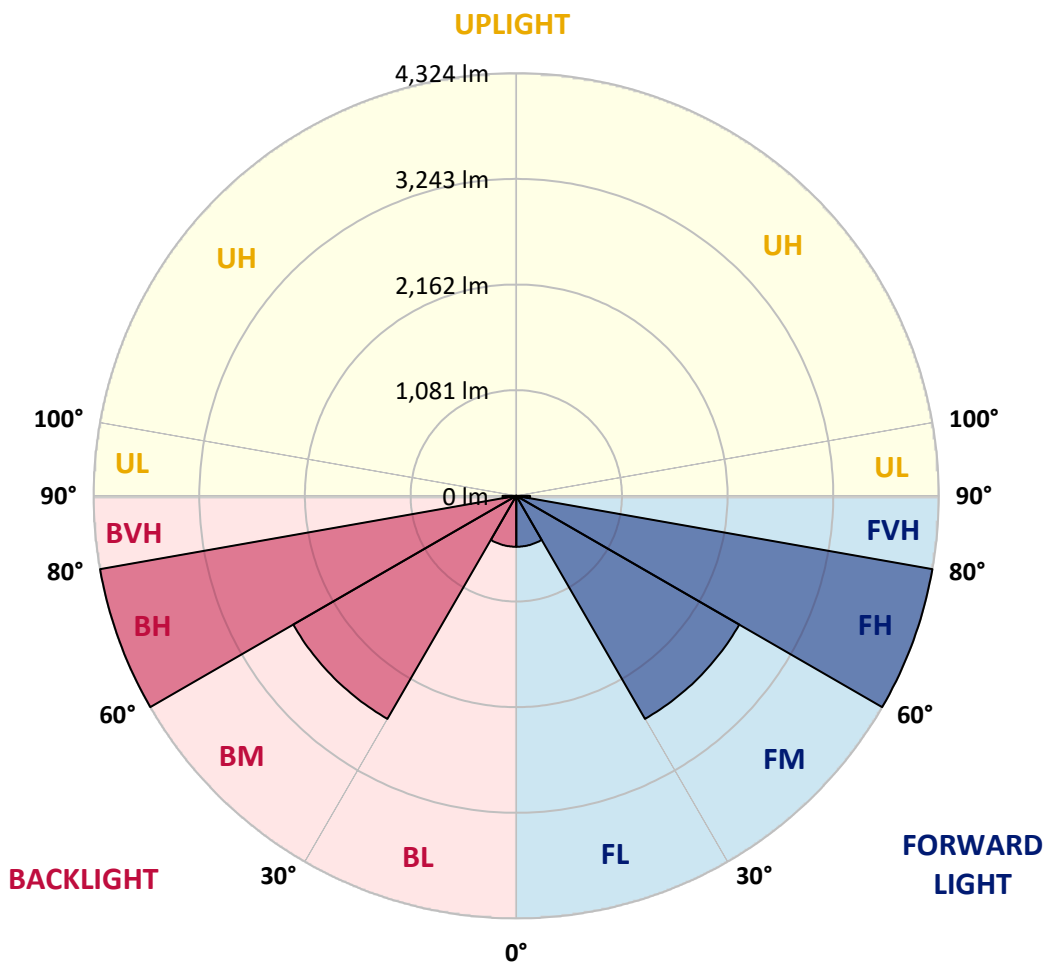


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 521.1  | 3.4       |                         |      |         |
| FM (30°-60°)   | 2635.6 | 17.3      |                         |      |         |
| FH (60°-80°)   | 4323.9 | 28.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 140.9  | 0.9       |                         |      | G2/225  |
| BL (0°-30°)    | 521.1  | 3.4       | B2/1000                 |      |         |
| BM (30°-60°)   | 2635.6 | 17.3      | B3/5000                 |      |         |
| BH (60°-80°)   | 4323.9 | 28.4      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 140.9  | 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°    | 1254.5 | 1254.5 | 1254.5 | 1254.5 | 1254.5 | 1254.5 | 1254.5 | 1254.5 | 1254.5 | 1254.5 | 1254.5 |
| 2.5°  | 1249.0 | 1250.5 | 1249.0 | 1250.0 | 1247.4 | 1248.5 | 1248.5 | 1248.5 | 1247.9 | 1248.5 | 1247.4 |
| 5°    | 1237.9 | 1238.9 | 1236.9 | 1237.9 | 1236.3 | 1237.9 | 1238.4 | 1237.9 | 1236.9 | 1237.4 | 1235.3 |
| 7.5°  | 1221.2 | 1222.2 | 1220.7 | 1222.2 | 1220.2 | 1222.7 | 1222.2 | 1220.7 | 1219.2 | 1219.2 | 1217.2 |
| 10°   | 1212.1 | 1212.7 | 1208.6 | 1207.1 | 1202.6 | 1203.6 | 1205.1 | 1206.6 | 1208.1 | 1211.1 | 1210.6 |
| 12.5° | 1212.7 | 1212.7 | 1206.6 | 1200.0 | 1193.5 | 1195.0 | 1197.5 | 1203.1 | 1209.1 | 1214.7 | 1215.2 |
| 15°   | 1217.7 | 1217.2 | 1208.1 | 1197.5 | 1193.0 | 1197.5 | 1199.0 | 1202.6 | 1212.1 | 1221.7 | 1222.2 |
| 17.5° | 1221.2 | 1221.2 | 1207.1 | 1195.0 | 1194.5 | 1201.6 | 1201.1 | 1202.6 | 1213.2 | 1227.3 | 1227.8 |
| 20°   | 1227.8 | 1227.8 | 1209.6 | 1196.5 | 1196.5 | 1204.1 | 1204.6 | 1207.1 | 1217.7 | 1233.3 | 1235.8 |
| 22.5° | 1242.4 | 1242.9 | 1223.7 | 1213.2 | 1214.2 | 1218.7 | 1220.2 | 1224.2 | 1233.8 | 1251.0 | 1254.0 |
| 25°   | 1263.1 | 1264.1 | 1244.4 | 1238.4 | 1241.9 | 1250.5 | 1249.5 | 1252.5 | 1263.1 | 1279.7 | 1282.7 |
| 27.5° | 1291.8 | 1289.3 | 1271.1 | 1268.6 | 1272.1 | 1278.2 | 1277.7 | 1278.2 | 1286.8 | 1301.9 | 1305.4 |
| 30°   | 1329.1 | 1328.1 | 1315.0 | 1316.5 | 1315.0 | 1313.0 | 1313.5 | 1317.5 | 1322.1 | 1334.2 | 1337.7 |
| 32.5° | 1365.4 | 1366.4 | 1358.4 | 1365.9 | 1377.0 | 1384.6 | 1373.0 | 1361.9 | 1356.9 | 1363.4 | 1366.4 |
| 35°   | 1431.0 | 1433.5 | 1420.9 | 1415.9 | 1431.0 | 1453.2 | 1420.4 | 1402.2 | 1412.3 | 1420.9 | 1423.4 |
| 37.5° | 1542.4 | 1543.9 | 1522.7 | 1502.6 | 1491.5 | 1512.7 | 1479.9 | 1481.4 | 1516.7 | 1532.8 | 1532.3 |
| 40°   | 1669.5 | 1670.0 | 1655.9 | 1638.2 | 1619.1 | 1624.1 | 1611.0 | 1615.0 | 1638.2 | 1652.8 | 1656.9 |
| 42.5° | 1820.7 | 1819.2 | 1797.0 | 1771.8 | 1766.3 | 1771.3 | 1749.1 | 1746.1 | 1772.8 | 1799.1 | 1799.6 |
| 45°   | 2016.9 | 2013.4 | 1984.6 | 1956.9 | 1930.2 | 1919.1 | 1913.5 | 1928.1 | 1964.9 | 1989.2 | 1989.7 |
| 47.5° | 2228.2 | 2218.6 | 2203.4 | 2181.3 | 2158.1 | 2147.0 | 2137.9 | 2145.0 | 2171.7 | 2181.3 | 2182.3 |
| 50°   | 2445.5 | 2447.5 | 2450.5 | 2441.9 | 2433.4 | 2429.8 | 2406.1 | 2392.5 | 2400.6 | 2382.9 | 2380.4 |
| 52.5° | 2703.1 | 2707.2 | 2736.4 | 2761.1 | 2775.7 | 2783.3 | 2738.4 | 2691.5 | 2665.3 | 2631.0 | 2620.9 |
| 55°   | 3007.2 | 3013.7 | 3056.6 | 3125.2 | 3195.8 | 3233.1 | 3151.9 | 3064.1 | 2983.0 | 2918.9 | 2898.3 |
| 57.5° | 3346.0 | 3357.6 | 3416.6 | 3548.2 | 3692.9 | 3781.2 | 3644.0 | 3484.7 | 3327.9 | 3235.6 | 3219.4 |
| 60°   | 3743.3 | 3754.4 | 3836.1 | 4024.7 | 4259.2 | 4391.8 | 4184.0 | 3923.3 | 3728.2 | 3640.0 | 3610.2 |
| 62.5° | 4216.3 | 4217.3 | 4317.6 | 4538.0 | 4847.6 | 5032.1 | 4750.8 | 4402.4 | 4201.2 | 4094.8 | 4066.0 |
| 65°   | 4725.1 | 4727.6 | 4831.4 | 5069.4 | 5389.6 | 5590.3 | 5272.6 | 4909.6 | 4663.5 | 4506.7 | 4484.5 |
| 67.5° | 5084.6 | 5095.1 | 5204.6 | 5491.0 | 5790.5 | 5971.5 | 5642.7 | 5232.3 | 4947.9 | 4760.9 | 4742.2 |
| 70°   | 5027.1 | 5068.4 | 5197.0 | 5531.3 | 5947.8 | 6205.9 | 5702.7 | 5194.0 | 4818.8 | 4598.0 | 4582.4 |
| 72.5° | 4384.2 | 4463.4 | 4634.8 | 5073.5 | 5739.5 | 6095.0 | 5375.5 | 4651.9 | 4227.4 | 4039.3 | 4011.1 |
| 75°   | 2985.5 | 3114.1 | 3372.7 | 4005.5 | 4903.5 | 5277.2 | 4525.4 | 3709.0 | 3309.7 | 3049.5 | 3030.4 |
| 77.5° | 1331.1 | 1360.4 | 1688.1 | 2416.7 | 3383.8 | 3789.7 | 3288.0 | 2426.3 | 1821.2 | 1452.7 | 1375.0 |
| 80°   | 371.1  | 375.6  | 501.2  | 900.0  | 1693.7 | 2226.6 | 1818.2 | 945.4  | 531.4  | 374.6  | 353.0  |
| 82.5° | 118.0  | 128.1  | 156.3  | 233.5  | 569.3  | 1016.0 | 584.4  | 252.1  | 179.5  | 143.2  | 129.1  |
| 85°   | 57.5   | 57.0   | 79.2   | 94.8   | 145.2  | 224.9  | 154.8  | 117.0  | 102.4  | 68.1   | 61.5   |
| 87.5° | 24.2   | 24.7   | 36.8   | 33.3   | 42.4   | 36.3   | 49.9   | 52.4   | 55.0   | 30.3   | 26.2   |
| 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)