

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: P316637

Luminaire Tested: **GAN-SA3B-830-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316637  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3B-830-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14564 lumens  
Efficiency: N/A  
Efficacy: 117.5 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): 124  
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

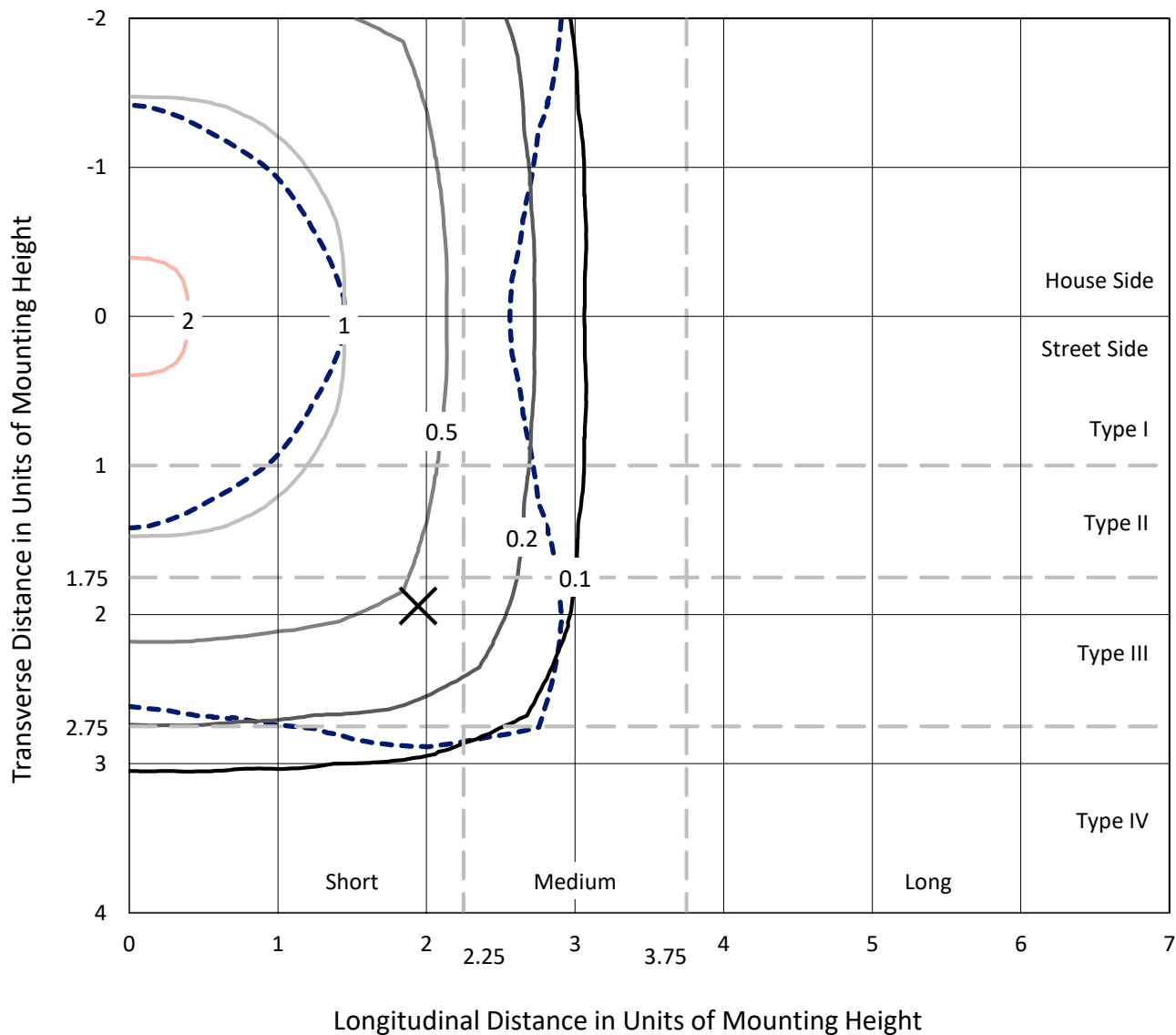


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## Iso-Footcandle Lines of Horizontal Illumination

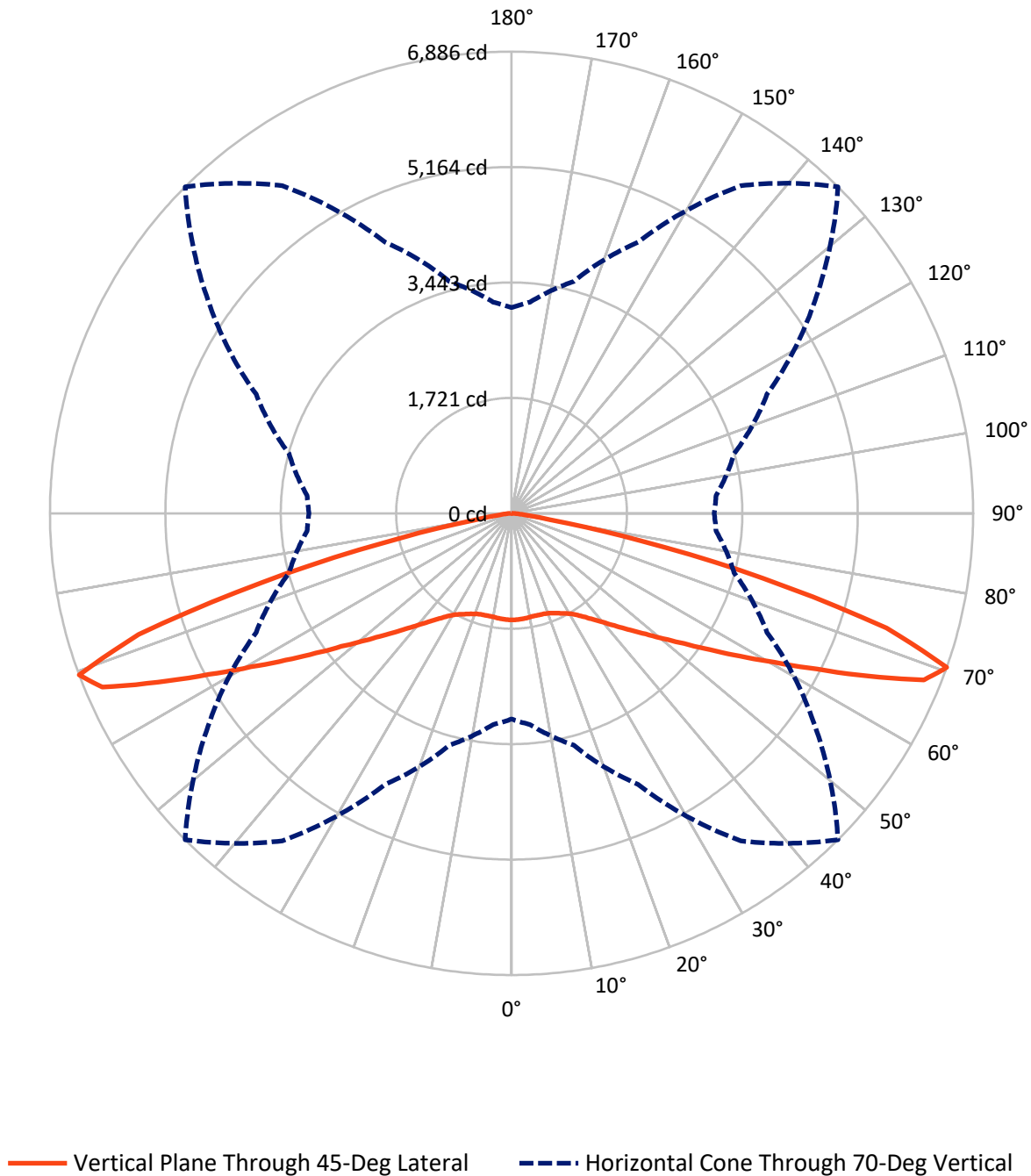
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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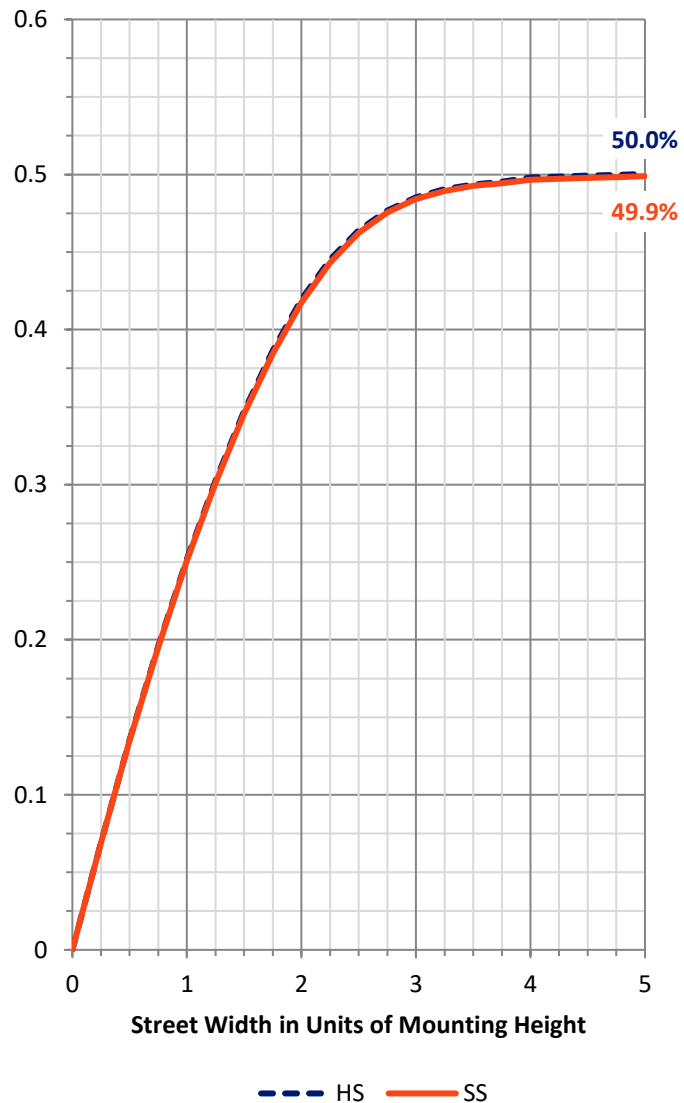
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7282.0   | 0.0    | 7282.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7282.0   | 0.0    | 7282.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 14564.0  | 0.0    | 14564.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 150.6   | 1.0       |
| 10°-20°   | 442.3   | 3.0       |
| 20°-30°   | 752.9   | 5.2       |
| 30°-40°   | 1194.1  | 8.2       |
| 40°-50°   | 1943.1  | 13.3      |
| 50°-60°   | 3203.8  | 22.0      |
| 60°-70°   | 4703.3  | 32.3      |
| 70°-80°   | 2079.8  | 14.3      |
| 80°-90°   | 94.2    | 0.6       |
| 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°    | 14564.0 | 100.0     |
| 0°-180°   | 14564.0 | 100.0     |

**Coefficient of Utilization**



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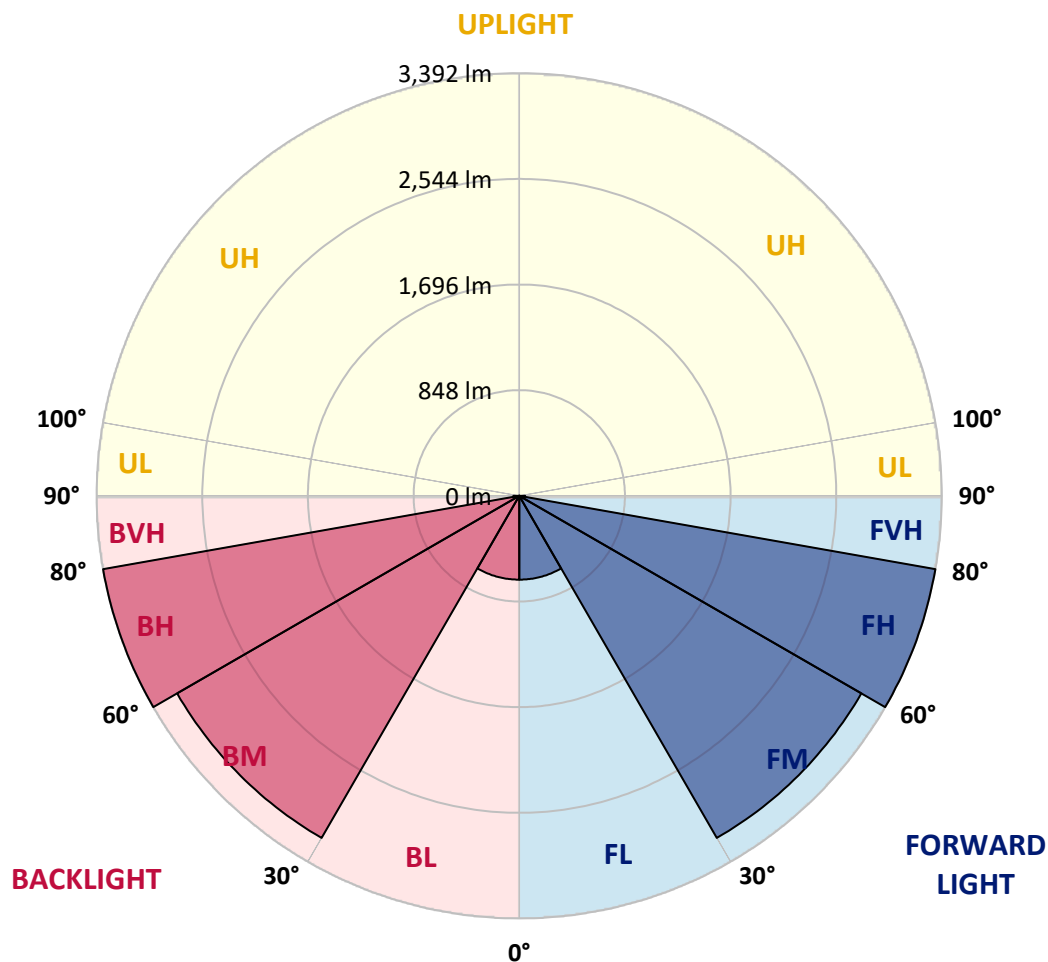
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 672.9  | 4.6       |                         |      |         |
| FM   | (30°-60°)   | 3170.5 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 3391.5 | 23.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 47.1   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 672.9  | 4.6       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3170.5 | 21.8      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 3391.5 | 23.3      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 47.1   | 0.3       |                         |      | G1/100  |
| 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°    | 1590.6 | 1590.6 | 1590.6 | 1590.6 | 1590.6 | 1590.6 | 1590.6 | 1590.6 | 1590.6 | 1590.6 | 1590.6 |
| 2.5°  | 1588.2 | 1586.8 | 1590.1 | 1589.7 | 1586.8 | 1587.2 | 1587.2 | 1588.7 | 1588.7 | 1587.7 | 1587.7 |
| 5°    | 1582.4 | 1581.5 | 1585.3 | 1585.3 | 1582.4 | 1583.4 | 1584.3 | 1585.8 | 1585.3 | 1584.3 | 1583.9 |
| 7.5°  | 1575.2 | 1574.7 | 1578.6 | 1578.6 | 1576.6 | 1577.6 | 1576.6 | 1577.1 | 1576.2 | 1575.2 | 1573.7 |
| 10°   | 1563.1 | 1564.1 | 1567.5 | 1568.4 | 1568.4 | 1568.9 | 1568.0 | 1565.6 | 1564.1 | 1562.7 | 1561.2 |
| 12.5° | 1552.1 | 1551.6 | 1556.4 | 1558.8 | 1562.7 | 1567.0 | 1564.1 | 1557.4 | 1554.5 | 1551.6 | 1550.6 |
| 15°   | 1544.8 | 1545.3 | 1550.1 | 1554.5 | 1561.2 | 1570.4 | 1567.0 | 1556.4 | 1550.6 | 1547.2 | 1546.3 |
| 17.5° | 1543.4 | 1544.3 | 1550.6 | 1558.3 | 1565.6 | 1575.7 | 1573.7 | 1563.1 | 1553.5 | 1547.2 | 1545.8 |
| 20°   | 1546.8 | 1547.2 | 1556.9 | 1568.0 | 1580.5 | 1590.1 | 1585.8 | 1574.2 | 1561.2 | 1551.6 | 1549.2 |
| 22.5° | 1553.0 | 1554.9 | 1567.0 | 1584.3 | 1603.6 | 1616.6 | 1611.3 | 1591.6 | 1571.3 | 1559.3 | 1555.9 |
| 25°   | 1572.8 | 1573.3 | 1589.7 | 1613.3 | 1636.4 | 1651.3 | 1645.1 | 1617.1 | 1591.1 | 1577.6 | 1573.3 |
| 27.5° | 1613.8 | 1615.2 | 1631.6 | 1659.1 | 1678.8 | 1688.5 | 1684.6 | 1662.0 | 1639.8 | 1625.3 | 1626.8 |
| 30°   | 1673.0 | 1675.0 | 1693.3 | 1723.6 | 1735.7 | 1738.1 | 1737.1 | 1726.5 | 1706.3 | 1687.0 | 1688.5 |
| 32.5° | 1745.3 | 1746.3 | 1770.9 | 1798.4 | 1808.0 | 1809.9 | 1808.0 | 1798.4 | 1774.3 | 1748.2 | 1749.7 |
| 35°   | 1838.4 | 1841.3 | 1864.9 | 1891.4 | 1899.1 | 1903.0 | 1899.6 | 1887.0 | 1862.0 | 1836.4 | 1835.5 |
| 37.5° | 1953.1 | 1953.6 | 1978.1 | 2005.6 | 2015.3 | 2016.2 | 2012.4 | 2004.2 | 1972.8 | 1949.7 | 1948.3 |
| 40°   | 2086.1 | 2088.0 | 2117.0 | 2146.4 | 2150.2 | 2145.9 | 2151.2 | 2146.4 | 2114.1 | 2087.6 | 2091.9 |
| 42.5° | 2248.1 | 2252.4 | 2287.1 | 2316.0 | 2304.9 | 2302.5 | 2305.9 | 2307.4 | 2281.3 | 2249.0 | 2246.1 |
| 45°   | 2436.5 | 2440.4 | 2483.8 | 2506.9 | 2499.7 | 2483.8 | 2490.5 | 2502.1 | 2465.9 | 2425.9 | 2429.8 |
| 47.5° | 2651.5 | 2661.1 | 2707.4 | 2729.1 | 2711.3 | 2689.6 | 2702.6 | 2720.0 | 2677.5 | 2627.9 | 2625.5 |
| 50°   | 2890.6 | 2902.6 | 2964.3 | 2994.7 | 2976.9 | 2936.9 | 2958.5 | 2970.1 | 2908.9 | 2844.8 | 2839.5 |
| 52.5° | 3145.6 | 3157.6 | 3235.2 | 3297.9 | 3286.3 | 3224.1 | 3254.5 | 3242.4 | 3172.1 | 3085.8 | 3079.0 |
| 55°   | 3434.3 | 3439.1 | 3523.0 | 3624.2 | 3635.8 | 3590.0 | 3588.0 | 3568.3 | 3464.2 | 3364.4 | 3359.6 |
| 57.5° | 3731.2 | 3734.6 | 3843.0 | 3962.6 | 4017.0 | 4017.0 | 3963.0 | 3921.1 | 3782.8 | 3667.1 | 3655.0 |
| 60°   | 4051.7 | 4063.8 | 4183.8 | 4346.2 | 4473.5 | 4511.1 | 4415.6 | 4301.4 | 4151.0 | 4009.8 | 3995.8 |
| 62.5° | 4337.1 | 4351.1 | 4534.7 | 4776.7 | 4981.0 | 5117.9 | 4884.6 | 4698.6 | 4424.8 | 4198.3 | 4171.8 |
| 65°   | 4373.2 | 4410.8 | 4678.3 | 5116.5 | 5573.9 | 5847.2 | 5399.9 | 4941.5 | 4442.6 | 4127.9 | 4100.9 |
| 67.5° | 3993.9 | 4057.5 | 4419.0 | 5101.1 | 6046.3 | 6632.9 | 5729.1 | 4802.7 | 4122.6 | 3774.6 | 3744.7 |
| 70°   | 3068.9 | 3161.5 | 3578.4 | 4461.9 | 5964.8 | 6885.9 | 5522.8 | 4204.5 | 3437.2 | 3062.7 | 3020.7 |
| 72.5° | 1683.6 | 1721.7 | 2096.7 | 3055.4 | 4782.0 | 5851.5 | 4606.5 | 3108.9 | 2279.4 | 1854.8 | 1784.4 |
| 75°   | 534.1  | 547.6  | 738.4  | 1250.3 | 2705.0 | 3875.8 | 2926.3 | 1526.0 | 840.1  | 619.4  | 612.1  |
| 77.5° | 237.1  | 238.6  | 267.0  | 364.9  | 931.7  | 1963.7 | 1119.2 | 415.5  | 286.3  | 250.2  | 258.4  |
| 80°   | 149.9  | 149.9  | 165.3  | 180.8  | 253.5  | 570.2  | 302.7  | 197.6  | 168.7  | 156.7  | 160.0  |
| 82.5° | 71.8   | 79.5   | 107.5  | 115.7  | 139.3  | 191.8  | 155.2  | 129.2  | 112.8  | 83.9   | 78.1   |
| 85°   | 47.2   | 39.5   | 68.0   | 76.6   | 81.0   | 92.1   | 90.1   | 85.3   | 73.7   | 41.9   | 46.8   |
| 87.5° | 21.2   | 20.2   | 35.2   | 32.3   | 30.4   | 23.1   | 34.7   | 42.9   | 41.5   | 20.7   | 20.7   |
| 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)