

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386803

Luminaire Tested: GAW-SA2C-730-U-RW

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386803  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2C-730-U-RW  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13741 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

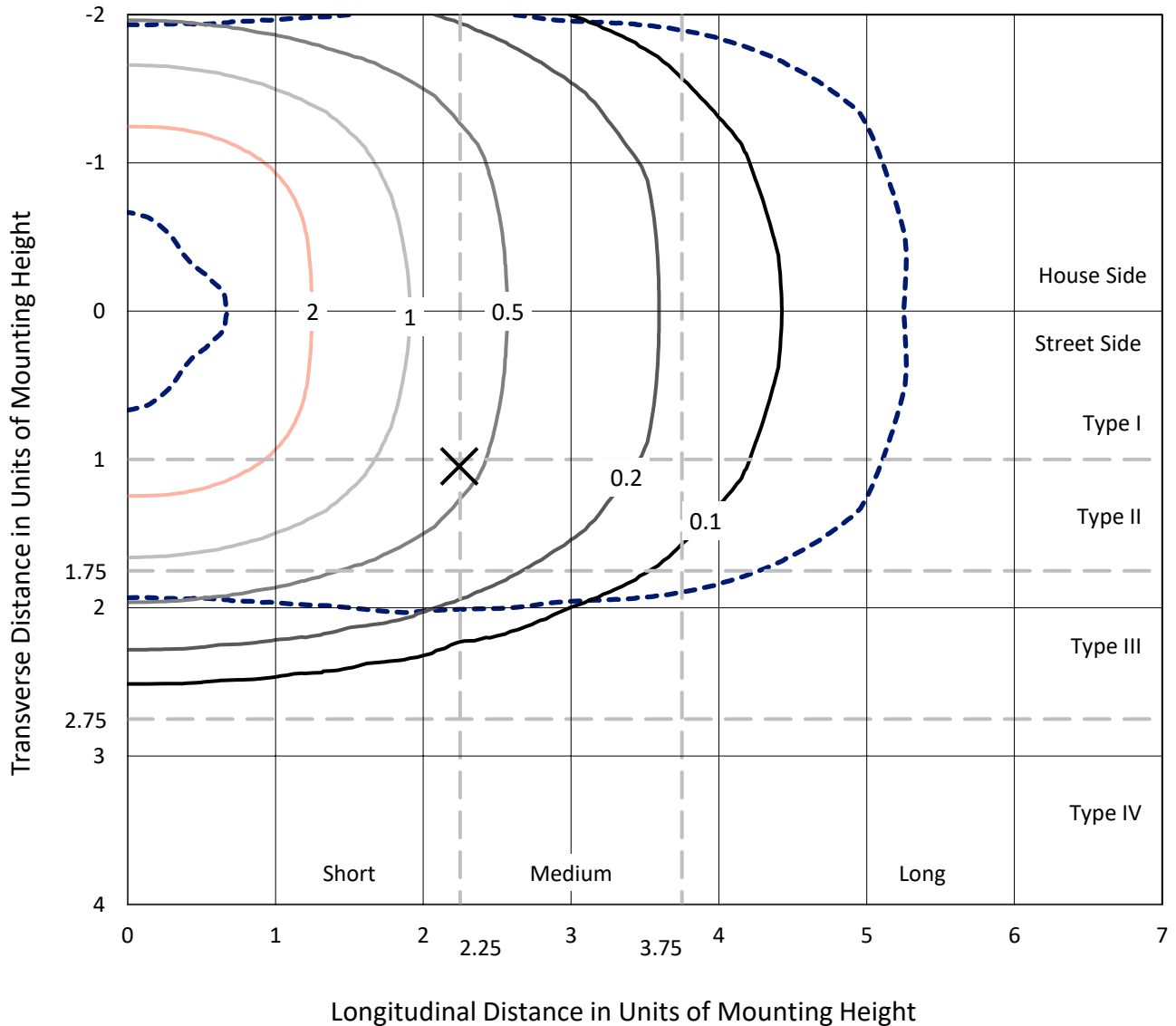
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

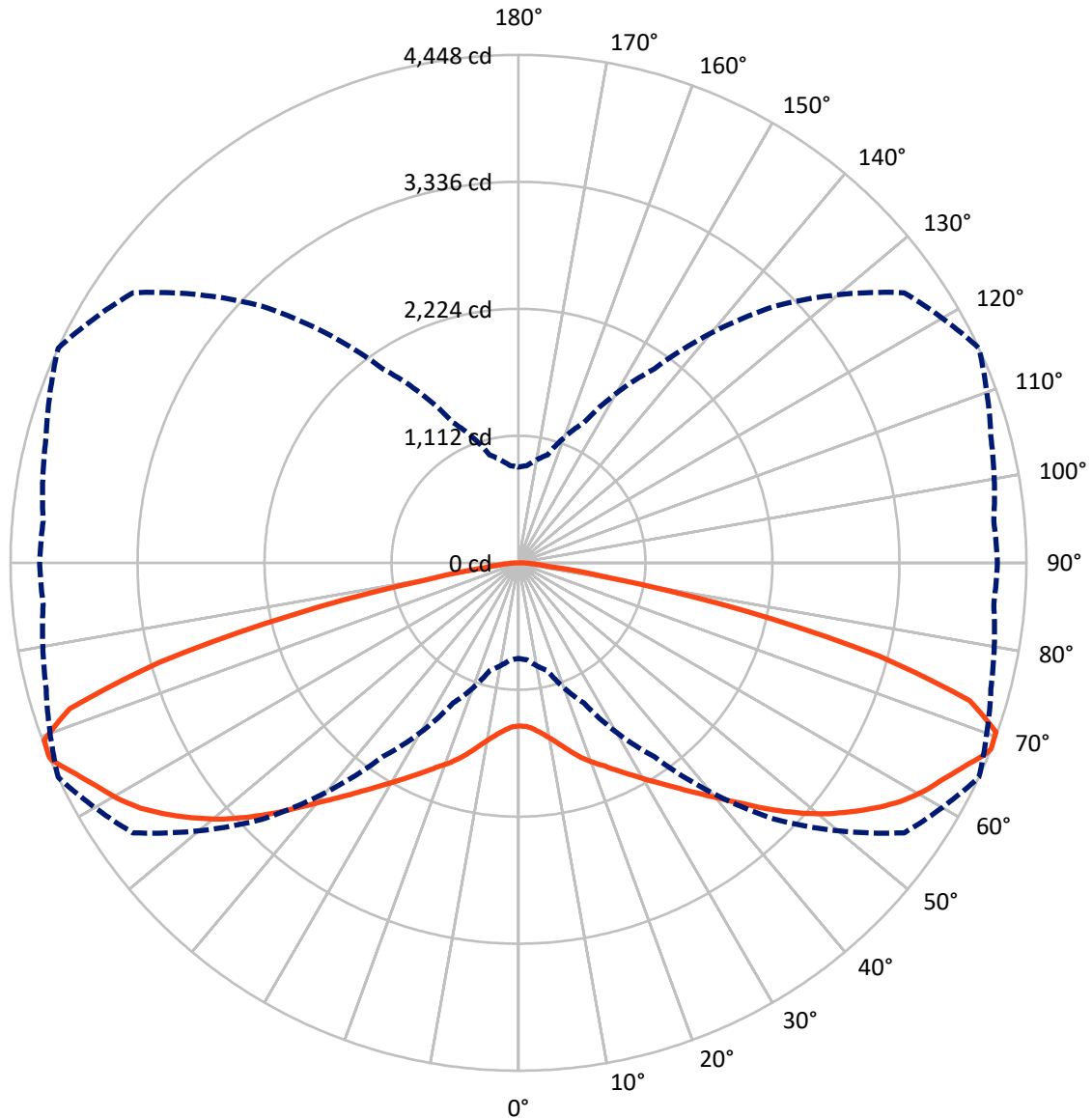
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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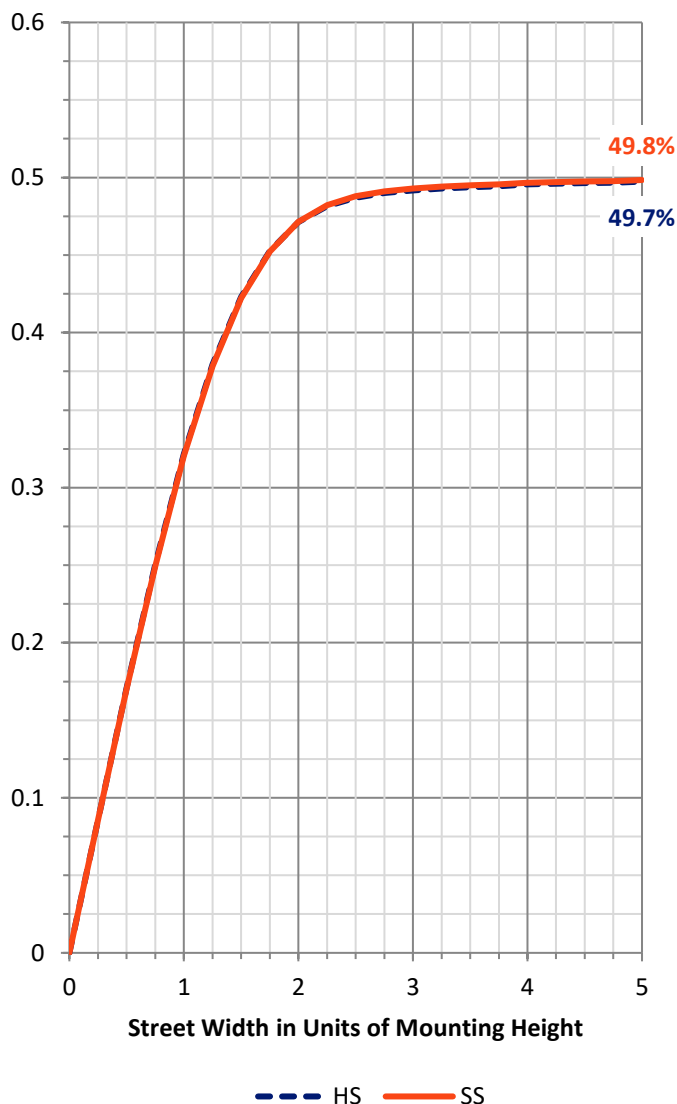
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6870.5   | 0.0    | 6870.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6870.5   | 0.0    | 6870.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 13741.0  | 0.0    | 13741.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 139.9   | 1.0       |
| 10°-20°   | 468.4   | 3.4       |
| 20°-30°   | 913.2   | 6.6       |
| 30°-40°   | 1534.2  | 11.2      |
| 40°-50°   | 2417.3  | 17.6      |
| 50°-60°   | 3232.7  | 23.5      |
| 60°-70°   | 3142.6  | 22.9      |
| 70°-80°   | 1717.9  | 12.5      |
| 80°-90°   | 174.7   | 1.3       |
| 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°    | 13741.0 | 100.0     |
| 0°-180°   | 13741.0 | 100.0     |

**Coefficient of Utilization**



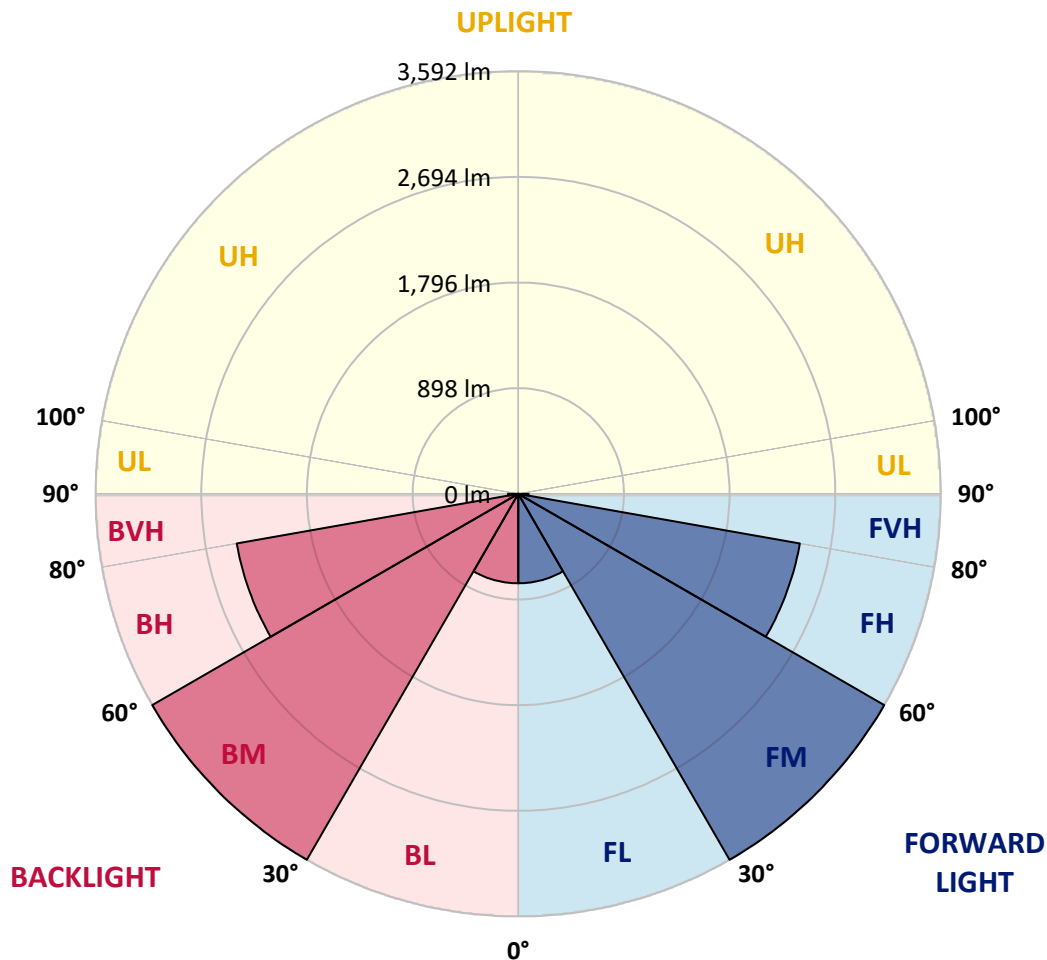
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 760.8  | 5.5       |                         |      |         |
| FM (30°-60°)   | 3592.1 | 26.1      |                         |      |         |
| FH (60°-80°)   | 2430.3 | 17.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 87.4   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 760.8  | 5.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 3592.1 | 26.1      | B3/5000                 |      |         |
| BH (60°-80°)   | 2430.3 | 17.7      | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 87.4   | 0.6       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1428.7 | 1428.7 | 1428.7 | 1428.7 | 1428.7 | 1428.7 | 1428.7 | 1428.7 | 1428.7 | 1428.7 | 1428.7 |
| 2.5°  | 1418.6 | 1419.1 | 1421.4 | 1424.1 | 1426.4 | 1432.4 | 1433.8 | 1436.1 | 1437.0 | 1439.3 | 1439.3 |
| 5°    | 1406.2 | 1407.1 | 1412.6 | 1420.0 | 1428.3 | 1443.0 | 1453.6 | 1465.6 | 1471.6 | 1478.0 | 1477.6 |
| 7.5°  | 1404.8 | 1407.1 | 1414.9 | 1426.9 | 1440.7 | 1465.1 | 1487.3 | 1511.2 | 1527.3 | 1542.1 | 1541.2 |
| 10°   | 1419.1 | 1422.8 | 1433.8 | 1451.8 | 1472.5 | 1502.9 | 1535.6 | 1567.9 | 1596.0 | 1618.6 | 1619.5 |
| 12.5° | 1440.7 | 1445.3 | 1462.8 | 1490.0 | 1521.3 | 1560.5 | 1599.2 | 1635.6 | 1674.3 | 1707.9 | 1710.7 |
| 15°   | 1469.3 | 1475.3 | 1501.5 | 1542.1 | 1590.0 | 1636.5 | 1678.0 | 1715.3 | 1760.0 | 1806.5 | 1811.2 |
| 17.5° | 1511.7 | 1520.0 | 1554.5 | 1609.3 | 1672.5 | 1723.6 | 1766.9 | 1795.0 | 1832.3 | 1880.3 | 1889.0 |
| 20°   | 1576.2 | 1586.8 | 1630.5 | 1696.0 | 1772.9 | 1826.4 | 1859.5 | 1865.5 | 1883.9 | 1926.8 | 1936.9 |
| 22.5° | 1660.0 | 1669.2 | 1718.1 | 1795.9 | 1882.1 | 1940.2 | 1957.7 | 1933.7 | 1931.9 | 1966.4 | 1976.1 |
| 25°   | 1753.6 | 1761.9 | 1818.5 | 1906.1 | 1998.7 | 2062.7 | 2062.3 | 2015.7 | 1983.5 | 2010.2 | 2020.3 |
| 27.5° | 1858.6 | 1871.5 | 1925.9 | 2018.0 | 2117.1 | 2180.2 | 2176.5 | 2104.6 | 2043.4 | 2050.3 | 2059.0 |
| 30°   | 1979.3 | 1993.6 | 2046.6 | 2140.1 | 2239.2 | 2300.9 | 2296.3 | 2201.4 | 2109.2 | 2090.8 | 2097.3 |
| 32.5° | 2129.1 | 2146.1 | 2196.3 | 2288.5 | 2376.0 | 2431.8 | 2418.4 | 2306.4 | 2188.5 | 2148.4 | 2154.4 |
| 35°   | 2309.2 | 2319.3 | 2372.3 | 2463.1 | 2534.0 | 2572.3 | 2544.2 | 2428.1 | 2288.9 | 2240.6 | 2240.6 |
| 37.5° | 2491.7 | 2499.5 | 2558.9 | 2646.9 | 2715.6 | 2735.8 | 2681.0 | 2561.2 | 2420.2 | 2351.6 | 2353.0 |
| 40°   | 2666.7 | 2687.9 | 2754.7 | 2845.0 | 2912.8 | 2918.3 | 2845.5 | 2713.3 | 2566.3 | 2495.3 | 2503.6 |
| 42.5° | 2849.6 | 2870.4 | 2950.1 | 3052.4 | 3112.3 | 3121.5 | 3036.2 | 2883.7 | 2731.2 | 2673.6 | 2682.9 |
| 45°   | 3012.7 | 3029.3 | 3121.5 | 3240.4 | 3315.0 | 3338.9 | 3238.0 | 3079.1 | 2909.5 | 2853.3 | 2855.6 |
| 47.5° | 3126.6 | 3148.2 | 3249.6 | 3389.6 | 3498.4 | 3535.2 | 3436.2 | 3269.4 | 3085.1 | 3016.9 | 3022.9 |
| 50°   | 3229.8 | 3241.3 | 3344.0 | 3497.0 | 3635.2 | 3711.2 | 3626.4 | 3457.4 | 3262.5 | 3190.1 | 3196.6 |
| 52.5° | 3287.3 | 3302.1 | 3401.6 | 3561.0 | 3724.6 | 3847.1 | 3795.5 | 3626.4 | 3433.9 | 3363.4 | 3371.2 |
| 55°   | 3247.3 | 3258.3 | 3377.7 | 3575.3 | 3779.9 | 3931.0 | 3938.8 | 3791.9 | 3602.0 | 3540.3 | 3562.4 |
| 57.5° | 3064.8 | 3078.6 | 3224.2 | 3483.2 | 3786.8 | 3987.7 | 4046.6 | 3945.3 | 3759.1 | 3708.9 | 3721.8 |
| 60°   | 2779.6 | 2788.4 | 2943.6 | 3234.8 | 3652.3 | 4011.2 | 4115.3 | 4070.6 | 3913.0 | 3862.8 | 3880.3 |
| 62.5° | 2271.4 | 2284.3 | 2470.0 | 2860.2 | 3368.0 | 3941.6 | 4181.6 | 4174.3 | 4056.3 | 4010.2 | 4025.9 |
| 65°   | 1552.7 | 1575.3 | 1780.7 | 2274.2 | 2929.8 | 3728.7 | 4242.0 | 4295.0 | 4183.0 | 4125.0 | 4145.7 |
| 67.5° | 937.6  | 954.2  | 1103.0 | 1501.5 | 2241.9 | 3299.3 | 4179.8 | 4432.3 | 4272.4 | 4178.9 | 4195.9 |
| 68°   | 838.1  | 853.3  | 977.7  | 1355.0 | 2073.8 | 3178.2 | 4123.1 | 4447.9 | 4282.1 | 4177.9 | 4193.2 |
| 70°   | 506.3  | 516.5  | 599.9  | 837.6  | 1382.7 | 2521.1 | 3736.6 | 4435.0 | 4343.8 | 4190.8 | 4199.6 |
| 72.5° | 329.9  | 333.1  | 346.9  | 429.9  | 706.3  | 1409.9 | 2804.5 | 4132.8 | 4436.4 | 4265.9 | 4264.6 |
| 75°   | 274.1  | 272.3  | 273.7  | 283.4  | 348.3  | 618.3  | 1638.8 | 3264.8 | 4229.1 | 4147.5 | 4118.5 |
| 77.5° | 231.7  | 230.4  | 229.9  | 230.4  | 233.1  | 298.6  | 711.4  | 2033.7 | 3236.2 | 3668.8 | 3694.6 |
| 80°   | 187.5  | 185.7  | 191.7  | 188.9  | 180.6  | 185.7  | 298.1  | 845.9  | 1525.5 | 1641.1 | 1537.9 |
| 82.5° | 136.4  | 129.5  | 155.3  | 147.9  | 141.0  | 130.8  | 164.5  | 273.2  | 364.0  | 249.7  | 175.5  |
| 85°   | 105.0  | 97.7   | 117.9  | 113.3  | 96.8   | 66.8   | 97.7   | 133.6  | 147.4  | 84.3   | 66.3   |
| 87.5° | 42.8   | 45.2   | 85.2   | 67.3   | 56.7   | 32.3   | 40.1   | 53.4   | 71.9   | 35.9   | 27.6   |
| 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)