

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: P316948

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

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P316948  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4A-830-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 15410 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

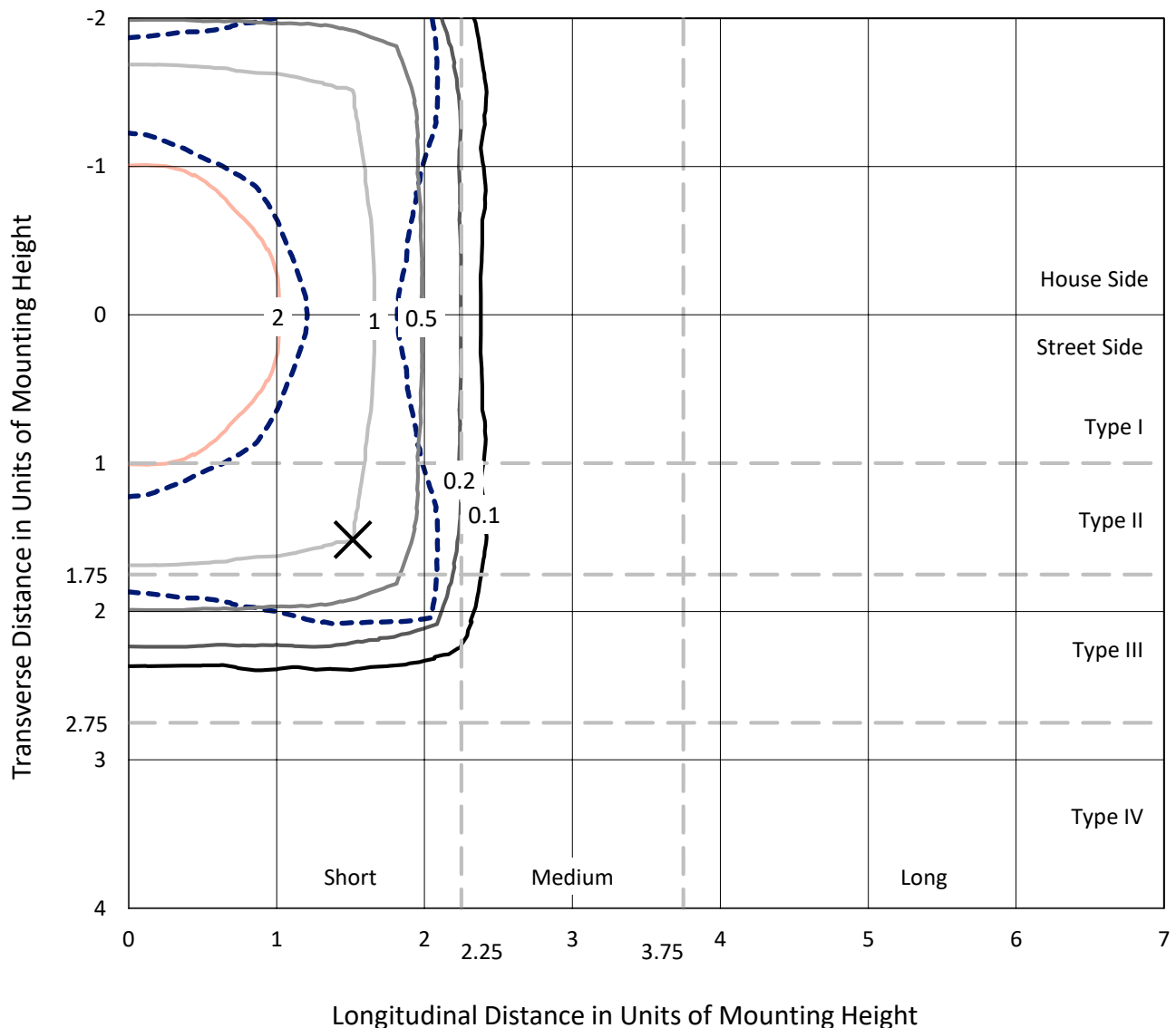
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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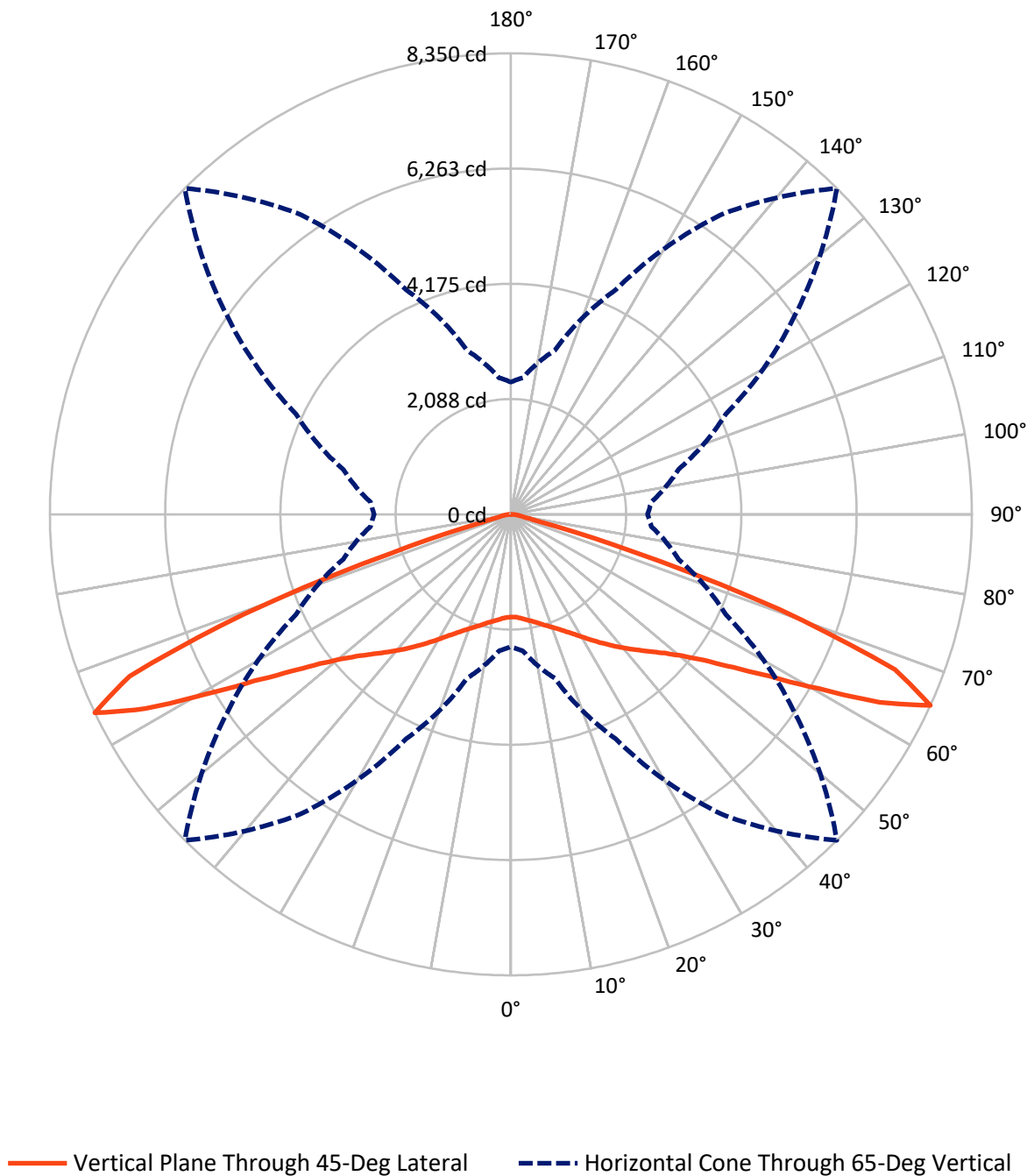
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd



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## Luminous Intensity Polar Plot



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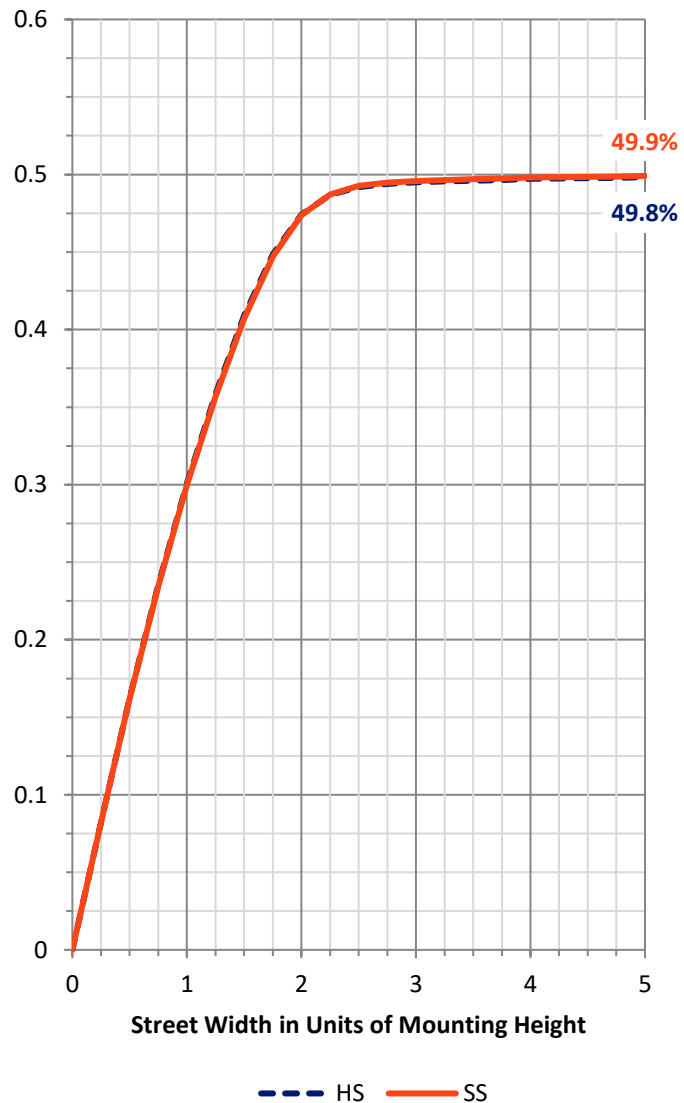
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7705.0   | 0.0    | 7705.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7705.0   | 0.0    | 7705.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 15410.0  | 0.0    | 15410.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 182.6   | 1.2       |
| 10°-20°   | 586.9   | 3.8       |
| 20°-30°   | 1101.1  | 7.1       |
| 30°-40°   | 1821.0  | 11.8      |
| 40°-50°   | 2820.5  | 18.3      |
| 50°-60°   | 4325.8  | 28.1      |
| 60°-70°   | 4036.4  | 26.2      |
| 70°-80°   | 469.8   | 3.0       |
| 80°-90°   | 66.0    | 0.4       |
| 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°    | 15410.0 | 100.0     |
| 0°-180°   | 15410.0 | 100.0     |

**Coefficient of Utilization**



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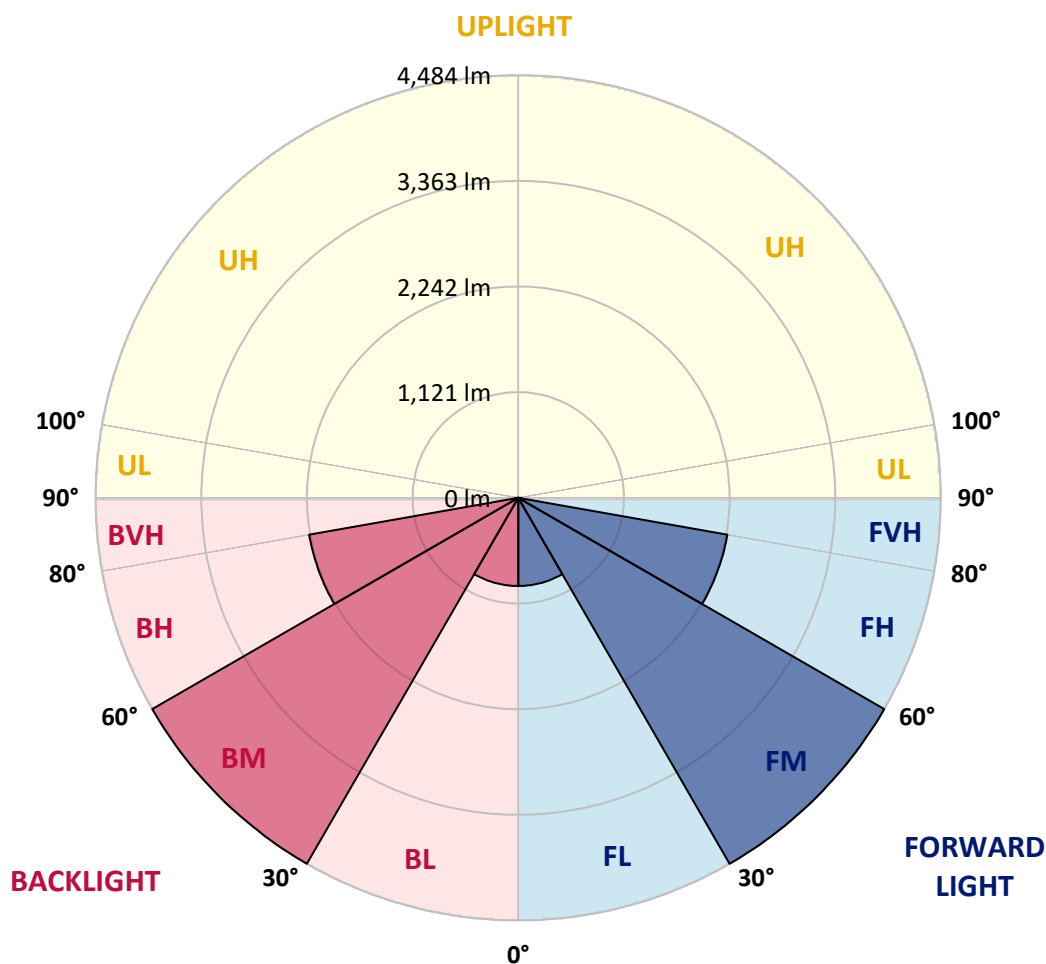
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 935.3  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 4483.6 | 29.1      |                         |      |         |
| FH   | (60°-80°)   | 2253.1 | 14.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 33.0   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 935.3  | 6.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 4483.6 | 29.1      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2253.1 | 14.6      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 33.0   | 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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1861.0 | 1861.0 | 1861.0 | 1861.0 | 1861.0 | 1861.0 | 1861.0 | 1861.0 | 1861.0 | 1861.0 | 1861.0 |
| 2.5°  | 1867.1 | 1866.1 | 1867.1 | 1867.6 | 1864.5 | 1866.1 | 1865.6 | 1868.1 | 1869.1 | 1868.1 | 1868.1 |
| 5°    | 1888.6 | 1887.0 | 1889.1 | 1891.6 | 1887.6 | 1888.6 | 1887.0 | 1890.1 | 1891.1 | 1889.1 | 1890.6 |
| 7.5°  | 1918.2 | 1918.8 | 1920.8 | 1925.4 | 1922.8 | 1924.9 | 1921.8 | 1922.3 | 1921.8 | 1918.8 | 1919.3 |
| 10°   | 1950.5 | 1951.0 | 1954.6 | 1960.7 | 1961.7 | 1961.7 | 1959.7 | 1958.1 | 1956.1 | 1954.1 | 1954.6 |
| 12.5° | 1989.3 | 1991.9 | 1994.5 | 2002.1 | 2002.1 | 2006.2 | 2005.2 | 2001.1 | 1997.5 | 1994.5 | 1994.5 |
| 15°   | 2042.0 | 2041.5 | 2044.6 | 2052.3 | 2055.8 | 2062.5 | 2062.5 | 2056.9 | 2052.3 | 2049.2 | 2048.2 |
| 17.5° | 2097.3 | 2098.8 | 2100.9 | 2110.1 | 2115.7 | 2123.4 | 2124.4 | 2119.8 | 2116.7 | 2112.6 | 2110.1 |
| 20°   | 2161.7 | 2164.3 | 2172.5 | 2176.1 | 2181.2 | 2188.3 | 2190.9 | 2189.9 | 2186.8 | 2184.8 | 2185.3 |
| 22.5° | 2236.9 | 2243.6 | 2248.7 | 2253.8 | 2259.9 | 2265.1 | 2267.6 | 2271.2 | 2268.1 | 2266.6 | 2265.6 |
| 25°   | 2328.0 | 2332.6 | 2342.8 | 2352.0 | 2356.1 | 2357.7 | 2360.7 | 2365.8 | 2365.3 | 2361.7 | 2361.7 |
| 27.5° | 2431.3 | 2440.0 | 2452.8 | 2466.1 | 2466.1 | 2461.0 | 2471.2 | 2479.9 | 2476.8 | 2472.2 | 2466.1 |
| 30°   | 2556.6 | 2564.8 | 2579.7 | 2598.1 | 2588.9 | 2585.3 | 2599.1 | 2615.0 | 2610.3 | 2602.7 | 2601.7 |
| 32.5° | 2691.7 | 2699.4 | 2718.8 | 2738.7 | 2727.0 | 2721.9 | 2736.7 | 2759.7 | 2751.5 | 2736.2 | 2727.0 |
| 35°   | 2838.0 | 2845.7 | 2873.3 | 2897.3 | 2877.4 | 2868.7 | 2880.9 | 2906.0 | 2891.7 | 2863.0 | 2855.9 |
| 37.5° | 2997.1 | 3001.2 | 3037.0 | 3061.5 | 3047.7 | 3024.7 | 3040.0 | 3058.4 | 3046.2 | 3011.4 | 2997.6 |
| 40°   | 3162.3 | 3177.1 | 3218.6 | 3247.2 | 3223.2 | 3186.8 | 3212.4 | 3238.0 | 3219.6 | 3175.1 | 3151.5 |
| 42.5° | 3355.1 | 3366.4 | 3421.6 | 3447.2 | 3408.3 | 3357.2 | 3392.0 | 3426.8 | 3408.3 | 3365.4 | 3344.9 |
| 45°   | 3555.7 | 3573.0 | 3639.0 | 3664.6 | 3608.3 | 3543.4 | 3585.8 | 3646.7 | 3645.2 | 3583.3 | 3561.8 |
| 47.5° | 3774.1 | 3791.5 | 3870.2 | 3904.0 | 3843.1 | 3756.2 | 3816.0 | 3902.0 | 3895.8 | 3827.8 | 3810.4 |
| 50°   | 4026.3 | 4044.7 | 4142.9 | 4185.4 | 4128.6 | 4027.3 | 4117.3 | 4193.0 | 4181.8 | 4097.9 | 4099.4 |
| 52.5° | 4342.9 | 4341.9 | 4464.1 | 4537.8 | 4479.5 | 4390.0 | 4472.8 | 4546.5 | 4499.9 | 4383.8 | 4380.2 |
| 55°   | 4620.2 | 4637.0 | 4788.4 | 4928.1 | 4924.5 | 4890.2 | 4923.5 | 4926.6 | 4793.6 | 4639.1 | 4620.2 |
| 57.5° | 4802.3 | 4834.5 | 5047.8 | 5300.5 | 5489.8 | 5535.3 | 5470.8 | 5275.4 | 4963.9 | 4716.8 | 4686.7 |
| 60°   | 4690.2 | 4739.3 | 5074.4 | 5589.5 | 6147.1 | 6414.6 | 6050.9 | 5444.7 | 4831.4 | 4487.2 | 4446.2 |
| 62.5° | 3934.2 | 4017.1 | 4507.6 | 5449.9 | 6712.8 | 7495.0 | 6471.4 | 5173.1 | 4304.5 | 3830.4 | 3760.3 |
| 65°   | 2396.0 | 2483.5 | 3074.8 | 4485.6 | 6621.3 | 8350.2 | 6279.6 | 4293.8 | 3141.8 | 2552.0 | 2476.3 |
| 67.5° | 798.5  | 824.1  | 1172.4 | 2479.4 | 5203.8 | 7502.6 | 5212.5 | 2570.4 | 1367.3 | 906.4  | 879.8  |
| 70°   | 312.5  | 315.1  | 371.9  | 718.7  | 2457.4 | 5153.2 | 2711.6 | 731.5  | 388.8  | 307.4  | 314.1  |
| 72.5° | 229.7  | 230.7  | 246.6  | 300.3  | 640.4  | 2270.2 | 663.5  | 301.8  | 239.9  | 215.4  | 215.4  |
| 75°   | 184.7  | 184.7  | 195.9  | 218.9  | 287.0  | 520.7  | 291.1  | 216.4  | 187.7  | 171.9  | 169.8  |
| 77.5° | 145.8  | 148.9  | 157.6  | 172.4  | 194.4  | 250.7  | 201.5  | 171.4  | 151.4  | 136.6  | 133.5  |
| 80°   | 108.4  | 111.5  | 125.8  | 133.0  | 139.6  | 173.9  | 148.9  | 134.0  | 119.7  | 102.3  | 99.2   |
| 82.5° | 71.1   | 74.2   | 92.1   | 96.2   | 94.6   | 113.6  | 100.3  | 98.7   | 88.0   | 66.0   | 62.9   |
| 85°   | 46.5   | 47.6   | 61.4   | 63.9   | 58.8   | 51.7   | 63.9   | 67.5   | 61.4   | 43.0   | 41.4   |
| 87.5° | 22.0   | 22.0   | 31.2   | 29.2   | 26.6   | 21.5   | 29.2   | 34.3   | 34.8   | 21.0   | 20.5   |
| 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)