

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: P529105

Luminaire Tested: **GLAN-SA4B-730-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529105  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4B-730-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12303 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

Input Watts (W): 164  
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



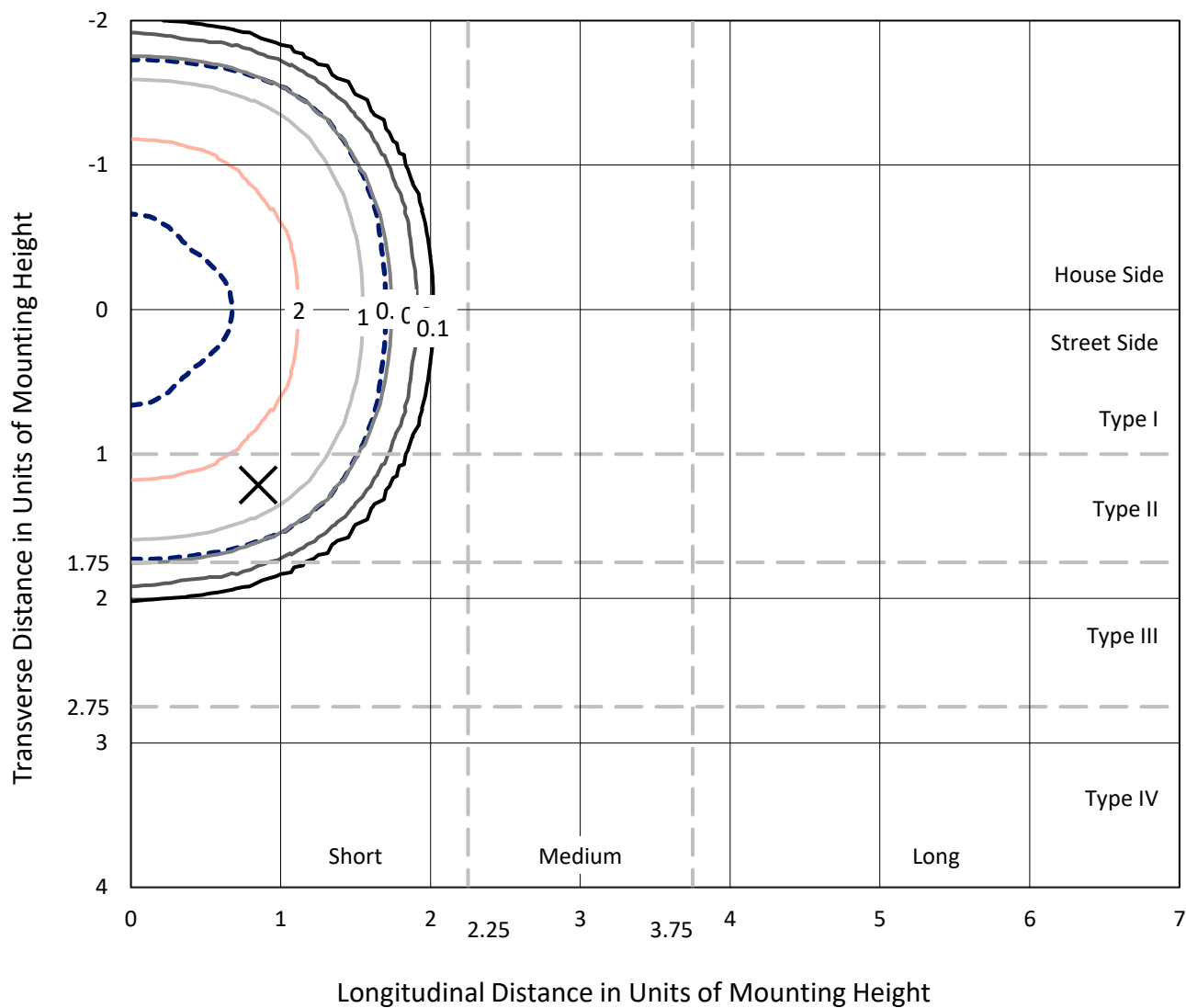
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

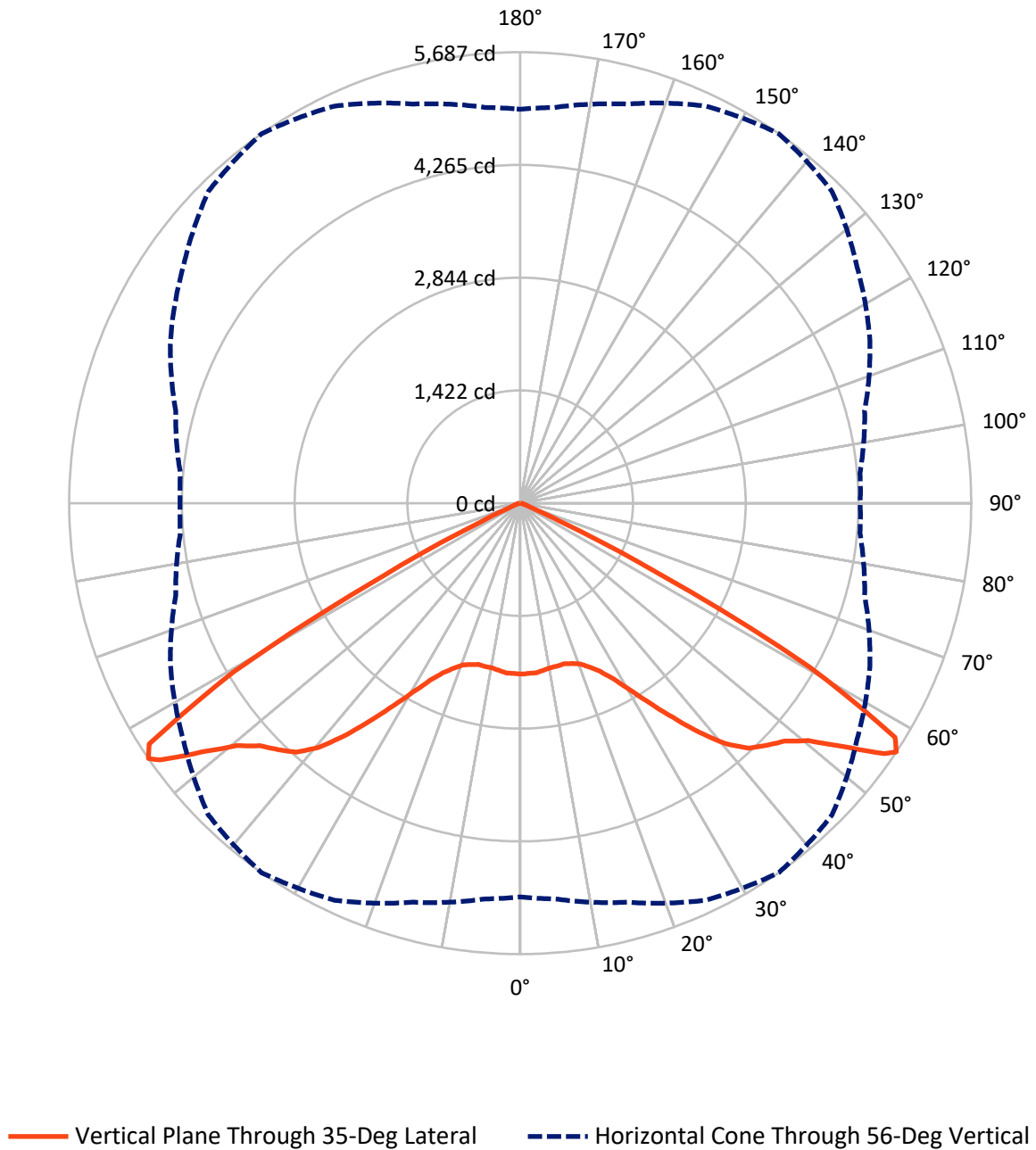
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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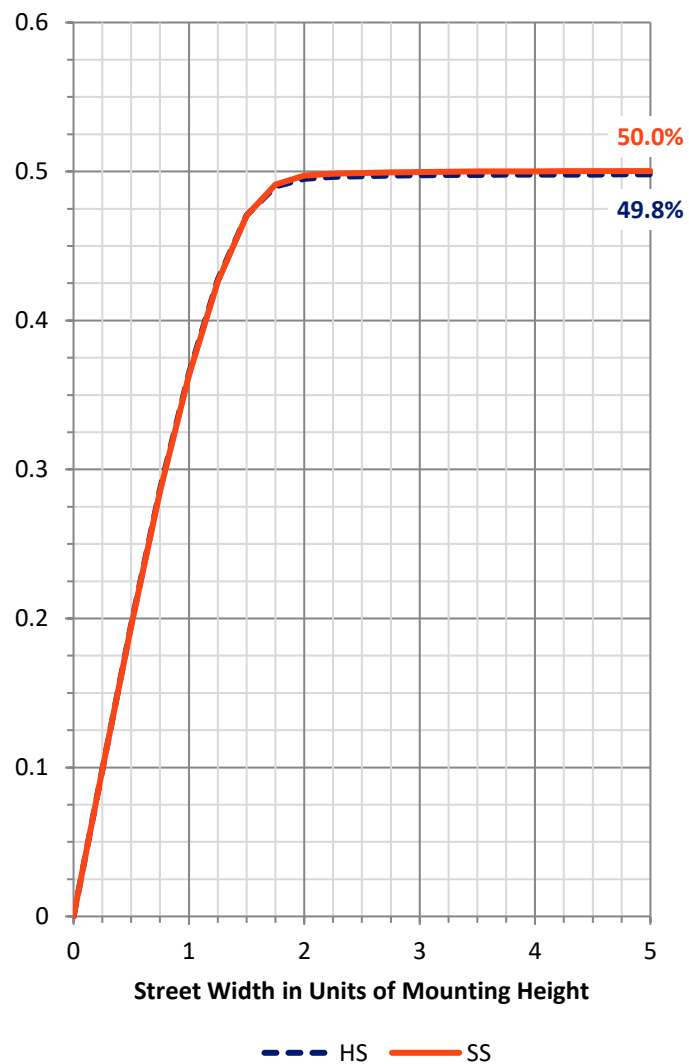
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6151.5   | 0.0    | 6151.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6151.5   | 0.0    | 6151.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 12303.0  | 0.0    | 12303.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 202.6   | 1.6       |
| 10°-20°   | 591.5   | 4.8       |
| 20°-30°   | 1071.2  | 8.7       |
| 30°-40°   | 1986.3  | 16.1      |
| 40°-50°   | 3260.4  | 26.5      |
| 50°-60°   | 4200.3  | 34.1      |
| 60°-70°   | 925.7   | 7.5       |
| 70°-80°   | 53.7    | 0.4       |
| 80°-90°   | 11.3    | 0.1       |
| 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°    | 12303.0 | 100.0     |
| 0°-180°   | 12303.0 | 100.0     |

**Coefficient of Utilization**



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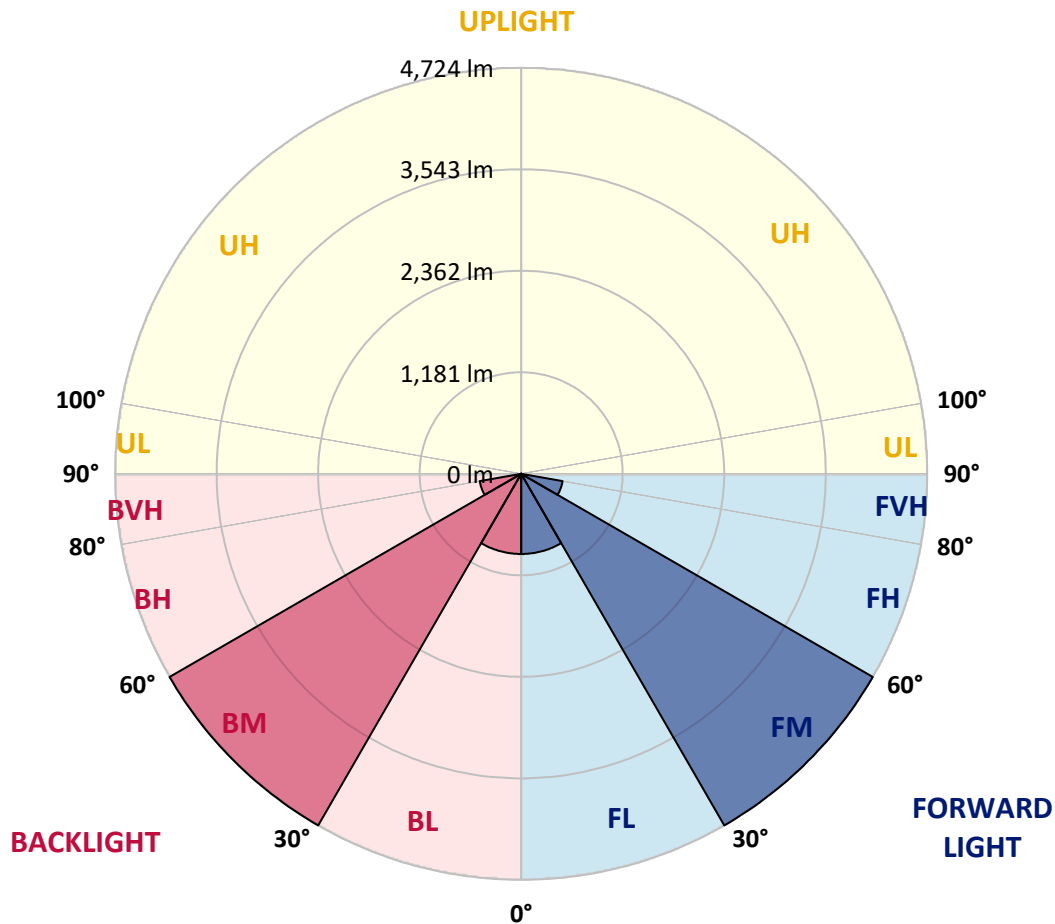
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 932.6  | 7.6       |                         |      |        |
| FM   | (30°-60°)   | 4723.5 | 38.4      |                         |      |        |
| FH   | (60°-80°)   | 489.7  | 4.0       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 5.7    | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 932.6  | 7.6       | B2/1000                 |      |        |
| BM   | (30°-60°)   | 4723.5 | 38.4      | B3/5000                 |      |        |
| BH   | (60°-80°)   | 489.7  | 4.0       | B1/500                  |      | G0/660 |
| BVH  | (80°-90°)   | 5.7    | 0.0       |                         |      | G0/10  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B3-U0-G0**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2155.8 | 2155.8 | 2155.8 | 2155.8 | 2155.8 | 2155.8 | 2155.8 | 2155.8 | 2155.8 | 2155.8 | 2155.8 |
| 2.5°  | 2160.2 | 2160.2 | 2162.4 | 2164.7 | 2149.1 | 2142.4 | 2144.6 | 2140.1 | 2137.9 | 2144.6 | 2144.6 |
| 5°    | 2153.5 | 2153.5 | 2146.8 | 2149.1 | 2149.1 | 2129.0 | 2129.0 | 2133.5 | 2133.5 | 2120.1 | 2115.6 |
| 7.5°  | 2135.7 | 2131.2 | 2122.3 | 2133.5 | 2126.8 | 2126.8 | 2111.2 | 2100.0 | 2095.6 | 2104.5 | 2095.6 |
| 10°   | 2097.8 | 2100.0 | 2108.9 | 2113.4 | 2108.9 | 2122.3 | 2095.6 | 2080.0 | 2064.3 | 2057.7 | 2057.7 |
| 12.5° | 2080.0 | 2093.3 | 2080.0 | 2091.1 | 2106.7 | 2095.6 | 2080.0 | 2068.8 | 2046.5 | 2037.6 | 2037.6 |
| 15°   | 2077.7 | 2086.6 | 2091.1 | 2106.7 | 2100.0 | 2104.5 | 2073.3 | 2059.9 | 2026.4 | 2010.8 | 2004.2 |
| 17.5° | 2075.5 | 2086.6 | 2093.3 | 2122.3 | 2126.8 | 2129.0 | 2104.5 | 2064.3 | 2035.4 | 2019.8 | 2004.2 |
| 20°   | 2100.0 | 2104.5 | 2117.9 | 2146.8 | 2164.7 | 2195.9 | 2151.3 | 2108.9 | 2046.5 | 2028.7 | 2022.0 |
| 22.5° | 2131.2 | 2153.5 | 2166.9 | 2198.1 | 2244.9 | 2271.7 | 2213.7 | 2160.2 | 2095.6 | 2073.3 | 2046.5 |
| 25°   | 2231.5 | 2227.1 | 2249.4 | 2314.0 | 2351.9 | 2372.0 | 2325.2 | 2247.2 | 2162.4 | 2135.7 | 2140.1 |
| 27.5° | 2356.4 | 2360.8 | 2380.9 | 2452.2 | 2508.0 | 2539.2 | 2483.5 | 2380.9 | 2298.4 | 2253.8 | 2249.4 |
| 30°   | 2519.1 | 2514.7 | 2537.0 | 2632.8 | 2733.1 | 2780.0 | 2681.9 | 2561.5 | 2481.2 | 2423.3 | 2436.6 |
| 32.5° | 2690.8 | 2693.0 | 2755.4 | 2842.4 | 3005.1 | 3096.5 | 2938.2 | 2791.1 | 2670.7 | 2630.6 | 2610.5 |
| 35°   | 2944.9 | 2956.1 | 3005.1 | 3138.9 | 3319.5 | 3437.6 | 3263.7 | 3087.6 | 2949.4 | 2875.8 | 2884.7 |
| 37.5° | 3259.3 | 3248.1 | 3330.6 | 3475.5 | 3665.0 | 3751.9 | 3604.8 | 3404.2 | 3263.7 | 3214.7 | 3245.9 |
| 40°   | 3593.7 | 3604.8 | 3647.2 | 3778.7 | 3990.5 | 4048.4 | 3830.0 | 3720.7 | 3598.1 | 3573.6 | 3611.5 |
| 42.5° | 3928.1 | 3921.4 | 3952.6 | 4070.7 | 4224.6 | 4184.4 | 4055.1 | 3990.5 | 3903.5 | 3854.5 | 3905.8 |
| 45°   | 4173.3 | 4162.1 | 4220.1 | 4300.4 | 4356.1 | 4280.3 | 4222.3 | 4200.0 | 4155.4 | 4101.9 | 4148.8 |
| 47.5° | 4411.8 | 4402.9 | 4458.6 | 4480.9 | 4485.4 | 4385.1 | 4396.2 | 4436.3 | 4324.9 | 4213.4 | 4266.9 |
| 50°   | 4614.7 | 4599.1 | 4668.2 | 4717.2 | 4706.1 | 4545.6 | 4585.7 | 4545.6 | 4371.7 | 4240.2 | 4220.1 |
| 52.5° | 4953.5 | 4960.2 | 5033.8 | 5123.0 | 5096.2 | 4962.5 | 4904.5 | 4721.7 | 4498.8 | 4380.6 | 4311.5 |
| 55°   | 5167.6 | 5134.1 | 5261.2 | 5544.3 | 5575.5 | 5437.3 | 5180.9 | 4911.2 | 4576.8 | 4431.9 | 4414.0 |
| 56°   | 4966.9 | 5009.3 | 5209.9 | 5526.5 | 5687.0 | 5559.9 | 5187.6 | 4864.4 | 4496.5 | 4300.4 | 4287.0 |
| 57.5° | 4456.4 | 4434.1 | 4706.1 | 5138.6 | 5575.5 | 5522.0 | 5004.8 | 4530.0 | 4101.9 | 3881.2 | 3854.5 |
| 60°   | 2773.3 | 2837.9 | 3076.5 | 3611.5 | 4195.6 | 4222.3 | 3709.6 | 3301.6 | 2802.3 | 2606.1 | 2652.9 |
| 62.5° | 1085.7 | 1029.9 | 1179.3 | 1578.4 | 1979.6 | 2068.8 | 1874.9 | 1558.3 | 1279.6 | 1085.7 | 1072.3 |
| 65°   | 251.9  | 245.2  | 276.4  | 381.2  | 532.8  | 617.5  | 586.3  | 421.3  | 309.9  | 294.3  | 272.0  |
| 67.5° | 142.7  | 142.7  | 136.0  | 136.0  | 149.4  | 158.3  | 151.6  | 149.4  | 156.1  | 162.7  | 160.5  |
| 70°   | 100.3  | 98.1   | 93.6   | 95.9   | 91.4   | 91.4   | 98.1   | 109.2  | 118.2  | 118.2  | 120.4  |
| 72.5° | 60.2   | 60.2   | 60.2   | 66.9   | 66.9   | 66.9   | 73.6   | 82.5   | 84.7   | 82.5   | 80.3   |
| 75°   | 26.8   | 26.8   | 31.2   | 37.9   | 42.4   | 44.6   | 51.3   | 55.7   | 60.2   | 55.7   | 51.3   |
| 77.5° | 6.7    | 6.7    | 11.1   | 15.6   | 20.1   | 24.5   | 33.4   | 40.1   | 42.4   | 40.1   | 33.4   |
| 80°   | 2.2    | 2.2    | 4.5    | 11.1   | 20.1   | 24.5   | 33.4   | 35.7   | 37.9   | 33.4   | 26.8   |
| 82.5° | 2.2    | 2.2    | 4.5    | 11.1   | 15.6   | 20.1   | 26.8   | 31.2   | 33.4   | 29.0   | 26.8   |
| 85°   | 0.0    | 2.2    | 4.5    | 8.9    | 13.4   | 17.8   | 17.8   | 13.4   | 11.1   | 6.7    | 8.9    |
| 87.5° | 0.0    | 0.0    | 2.2    | 2.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)