

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: P528639

Luminaire Tested: **GLAN-SA3D-730-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528639  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3D-730-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14448 lumens  
Efficiency: N/A  
Efficacy: 78.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

Input Watts (W): 184  
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



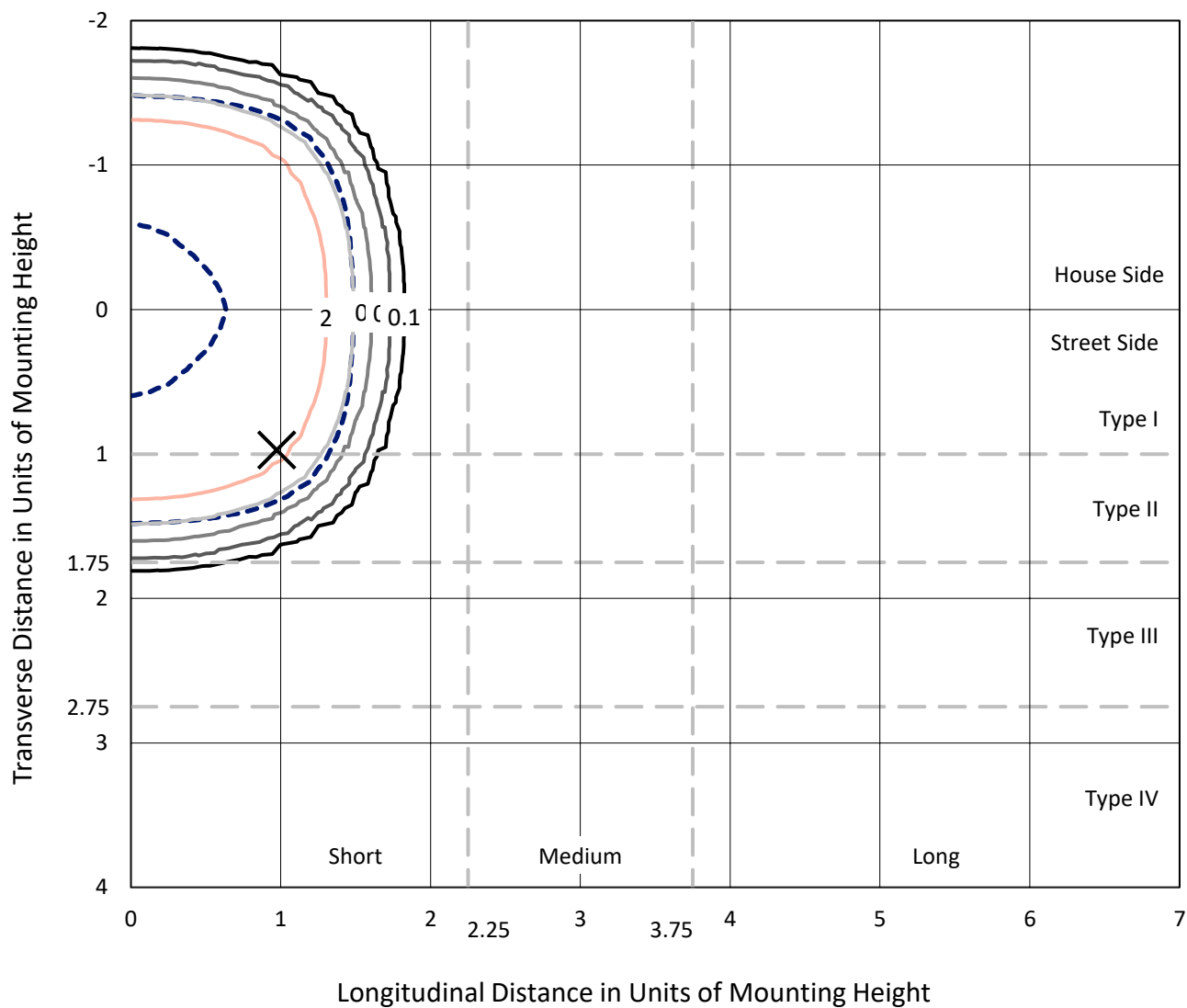
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

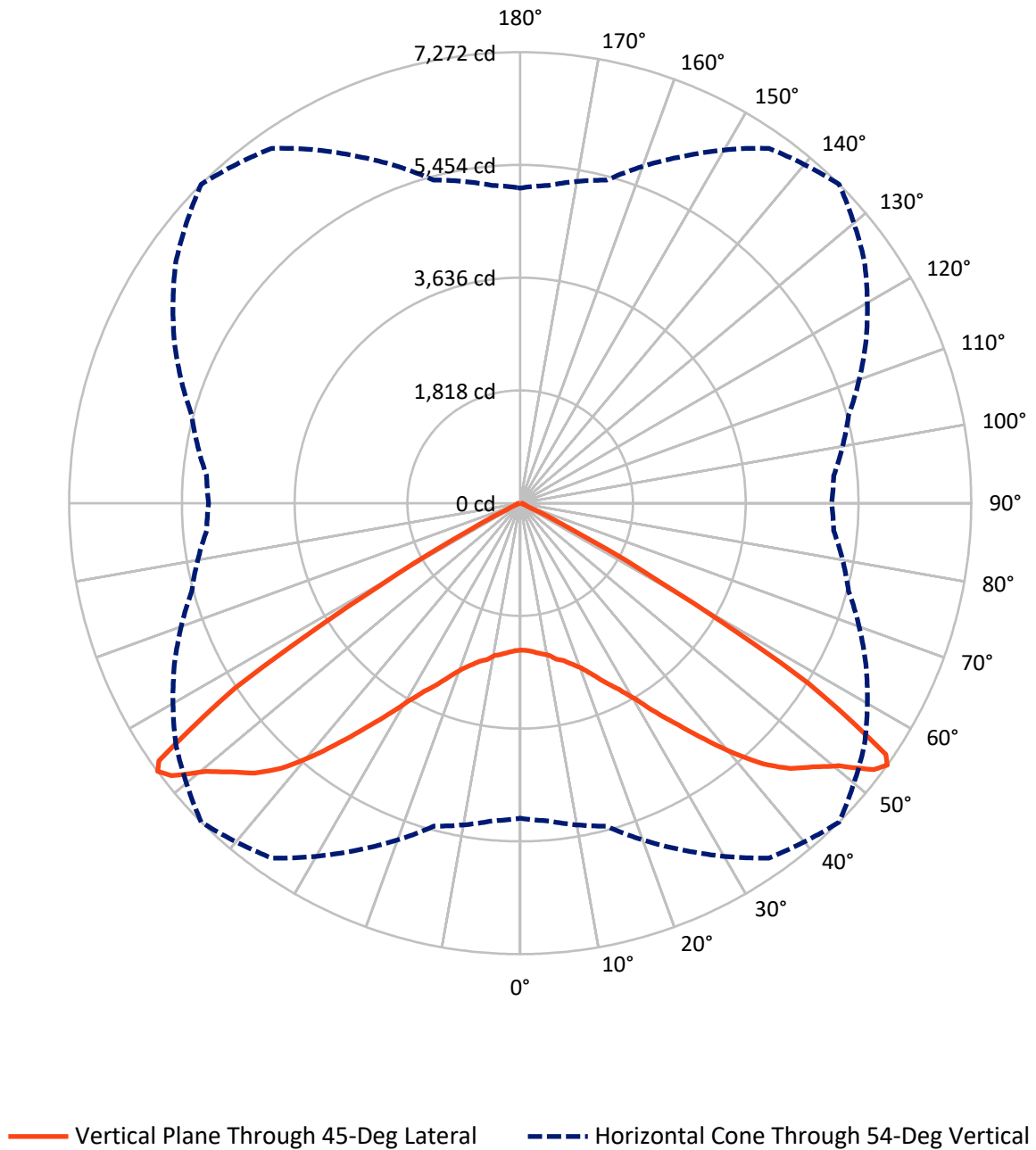


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc

Type V - Short - N/A

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## Luminous Intensity Polar Plot



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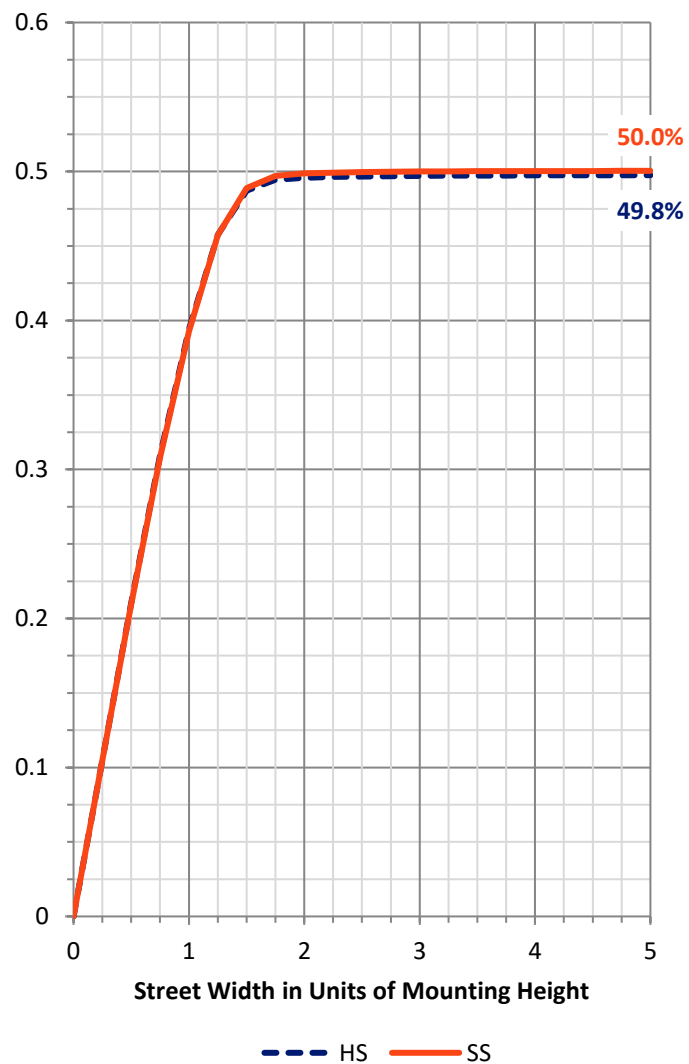
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7224.0   | 0.0    | 7224.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7224.0   | 0.0    | 7224.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 14448.0  | 0.0    | 14448.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 231.9   | 1.6       |
| 10°-20°   | 750.9   | 5.2       |
| 20°-30°   | 1471.7  | 10.2      |
| 30°-40°   | 2646.4  | 18.3      |
| 40°-50°   | 4530.1  | 31.4      |
| 50°-60°   | 4383.3  | 30.3      |
| 60°-70°   | 375.2   | 2.6       |
| 70°-80°   | 44.5    | 0.3       |
| 80°-90°   | 13.9    | 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°    | 14448.0 | 100.0     |
| 0°-180°   | 14448.0 | 100.0     |

**Coefficient of Utilization**



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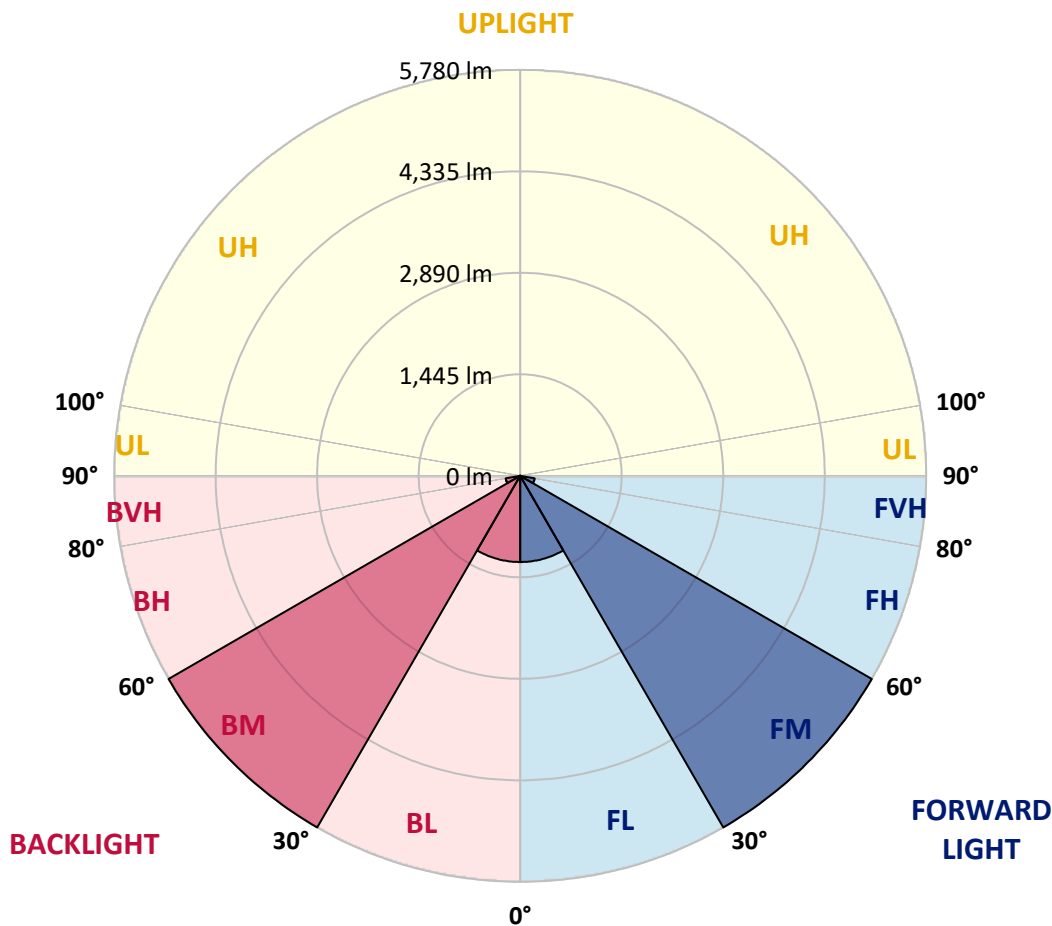
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 1227.2 | 8.5       |                         |      |        |
| FM   | (30°-60°)   | 5779.9 | 40.0      |                         |      |        |
| FH   | (60°-80°)   | 209.9  | 1.5       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 7.0    | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 1227.2 | 8.5       | B3/2500                 |      |        |
| BM   | (30°-60°)   | 5779.9 | 40.0      | B4/8500                 |      |        |
| BH   | (60°-80°)   | 209.9  | 1.5       | B1/500                  |      | G0/660 |
| BVH  | (80°-90°)   | 7.0    | 0.0       |                         |      | G0/10  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B4-U0-G0**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2369.0 | 2369.0 | 2369.0 | 2369.0 | 2369.0 | 2369.0 | 2369.0 | 2369.0 | 2369.0 | 2369.0 | 2369.0 |
| 2.5°  | 2380.5 | 2394.2 | 2385.0 | 2391.9 | 2391.9 | 2380.5 | 2387.3 | 2359.9 | 2378.2 | 2364.4 | 2366.7 |
| 5°    | 2417.1 | 2414.8 | 2414.8 | 2417.1 | 2407.9 | 2412.5 | 2403.4 | 2394.2 | 2387.3 | 2378.2 | 2405.6 |
| 7.5°  | 2462.9 | 2462.9 | 2446.8 | 2451.4 | 2446.8 | 2453.7 | 2435.4 | 2417.1 | 2410.2 | 2403.4 | 2398.8 |
| 10°   | 2506.4 | 2501.8 | 2494.9 | 2515.5 | 2499.5 | 2490.3 | 2481.2 | 2469.7 | 2444.6 | 2435.4 | 2426.2 |
| 12.5° | 2570.4 | 2568.2 | 2559.0 | 2579.6 | 2570.4 | 2579.6 | 2545.3 | 2515.5 | 2510.9 | 2481.2 | 2497.2 |
| 15°   | 2646.0 | 2666.6 | 2650.6 | 2650.6 | 2646.0 | 2634.5 | 2620.8 | 2607.1 | 2565.9 | 2554.4 | 2556.7 |
| 17.5° | 2744.4 | 2737.5 | 2739.8 | 2739.8 | 2762.7 | 2733.0 | 2705.5 | 2671.2 | 2650.6 | 2643.7 | 2620.8 |
| 20°   | 2838.2 | 2847.4 | 2845.1 | 2861.1 | 2874.9 | 2842.8 | 2813.1 | 2808.5 | 2751.3 | 2760.4 | 2728.4 |
| 22.5° | 3003.0 | 2996.2 | 3007.6 | 3019.1 | 3009.9 | 3005.3 | 2977.9 | 2943.5 | 2893.2 | 2870.3 | 2865.7 |
| 25°   | 3177.0 | 3165.6 | 3145.0 | 3172.4 | 3186.2 | 3206.8 | 3154.1 | 3135.8 | 3058.0 | 3023.7 | 3025.9 |
| 27.5° | 3325.8 | 3341.8 | 3364.7 | 3376.1 | 3410.5 | 3403.6 | 3367.0 | 3307.5 | 3248.0 | 3209.1 | 3183.9 |
| 30°   | 3529.5 | 3538.7 | 3577.6 | 3593.6 | 3653.1 | 3669.1 | 3611.9 | 3543.2 | 3437.9 | 3387.6 | 3357.8 |
| 32.5° | 3717.2 | 3781.3 | 3779.0 | 3859.1 | 3955.2 | 4021.6 | 3918.6 | 3813.3 | 3708.0 | 3648.5 | 3595.9 |
| 35°   | 4021.6 | 4010.2 | 4076.5 | 4161.2 | 4316.9 | 4392.4 | 4280.3 | 4158.9 | 3998.7 | 3902.6 | 3861.4 |
| 37.5° | 4305.4 | 4310.0 | 4399.3 | 4534.3 | 4712.9 | 4829.6 | 4731.2 | 4532.0 | 4367.2 | 4243.6 | 4186.4 |
| 40°   | 4717.4 | 4726.6 | 4818.2 | 4971.5 | 5172.9 | 5298.8 | 5184.4 | 4983.0 | 4763.2 | 4667.1 | 4667.1 |
| 42.5° | 5200.4 | 5239.3 | 5298.8 | 5431.6 | 5612.4 | 5752.0 | 5649.0 | 5491.1 | 5269.1 | 5145.5 | 5163.8 |
| 45°   | 5697.1 | 5715.4 | 5754.3 | 5951.2 | 6035.9 | 6104.5 | 6008.4 | 5935.1 | 5786.4 | 5635.3 | 5610.1 |
| 47.5° | 6161.7 | 6168.6 | 6283.1 | 6344.9 | 6411.2 | 6354.0 | 6415.8 | 6319.7 | 6152.6 | 6006.1 | 5976.3 |
| 50°   | 6367.7 | 6356.3 | 6518.8 | 6706.5 | 6756.9 | 6656.2 | 6603.5 | 6539.4 | 6285.3 | 6109.1 | 6031.3 |
| 52.5° | 5768.1 | 5834.4 | 6136.6 | 6658.4 | 7052.1 | 7136.8 | 6830.1 | 6534.8 | 6061.0 | 5717.7 | 5665.1 |
| 54°   | 5081.4 | 5143.2 | 5392.7 | 6166.3 | 6985.8 | 7271.9 | 6777.5 | 6150.3 | 5481.9 | 5074.5 | 5021.9 |
| 55°   | 4401.6 | 4332.9 | 4786.1 | 5575.8 | 6674.5 | 7152.8 | 6569.2 | 5653.6 | 4889.1 | 4516.0 | 4442.8 |
| 57.5° | 2382.8 | 2394.2 | 2776.4 | 3522.6 | 4690.0 | 5484.2 | 4843.3 | 3824.8 | 2888.6 | 2469.7 | 2433.1 |
| 60°   | 755.3  | 773.7  | 940.7  | 1423.7 | 2240.8 | 2675.7 | 2293.5 | 1535.9 | 1062.1 | 851.5  | 817.1  |
| 62.5° | 235.8  | 244.9  | 267.8  | 398.3  | 613.4  | 876.7  | 686.7  | 412.0  | 306.7  | 281.5  | 286.1  |
| 65°   | 144.2  | 144.2  | 146.5  | 155.6  | 183.1  | 212.9  | 206.0  | 180.8  | 174.0  | 169.4  | 167.1  |
| 67.5° | 93.8   | 91.6   | 96.1   | 103.0  | 107.6  | 109.9  | 116.7  | 123.6  | 121.3  | 116.7  | 116.7  |
| 70°   | 57.2   | 54.9   | 59.5   | 68.7   | 71.0   | 75.5   | 82.4   | 91.6   | 89.3   | 84.7   | 87.0   |
| 72.5° | 32.0   | 32.0   | 34.3   | 41.2   | 48.1   | 52.6   | 59.5   | 66.4   | 68.7   | 66.4   | 66.4   |
| 75°   | 11.4   | 13.7   | 18.3   | 25.2   | 29.8   | 36.6   | 43.5   | 50.4   | 57.2   | 52.6   | 50.4   |
| 77.5° | 4.6    | 4.6    | 9.2    | 16.0   | 22.9   | 29.8   | 41.2   | 48.1   | 52.6   | 48.1   | 43.5   |
| 80°   | 2.3    | 2.3    | 6.9    | 13.7   | 20.6   | 27.5   | 34.3   | 41.2   | 43.5   | 38.9   | 34.3   |
| 82.5° | 2.3    | 2.3    | 6.9    | 13.7   | 20.6   | 25.2   | 36.6   | 41.2   | 45.8   | 41.2   | 34.3   |
| 85°   | 0.0    | 2.3    | 6.9    | 13.7   | 18.3   | 20.6   | 20.6   | 13.7   | 11.4   | 6.9    | 6.9    |
| 87.5° | 0.0    | 0.0    | 2.3    | 0.0    | 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)