

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: P529705

Luminaire Tested: **GLAN-SA4D-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

### Test Information

Test Method: LM-79-08  
Report Number: P529705  
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-SA4D-827-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 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: 15454 lumens  
Efficiency: N/A  
Efficacy: 63.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

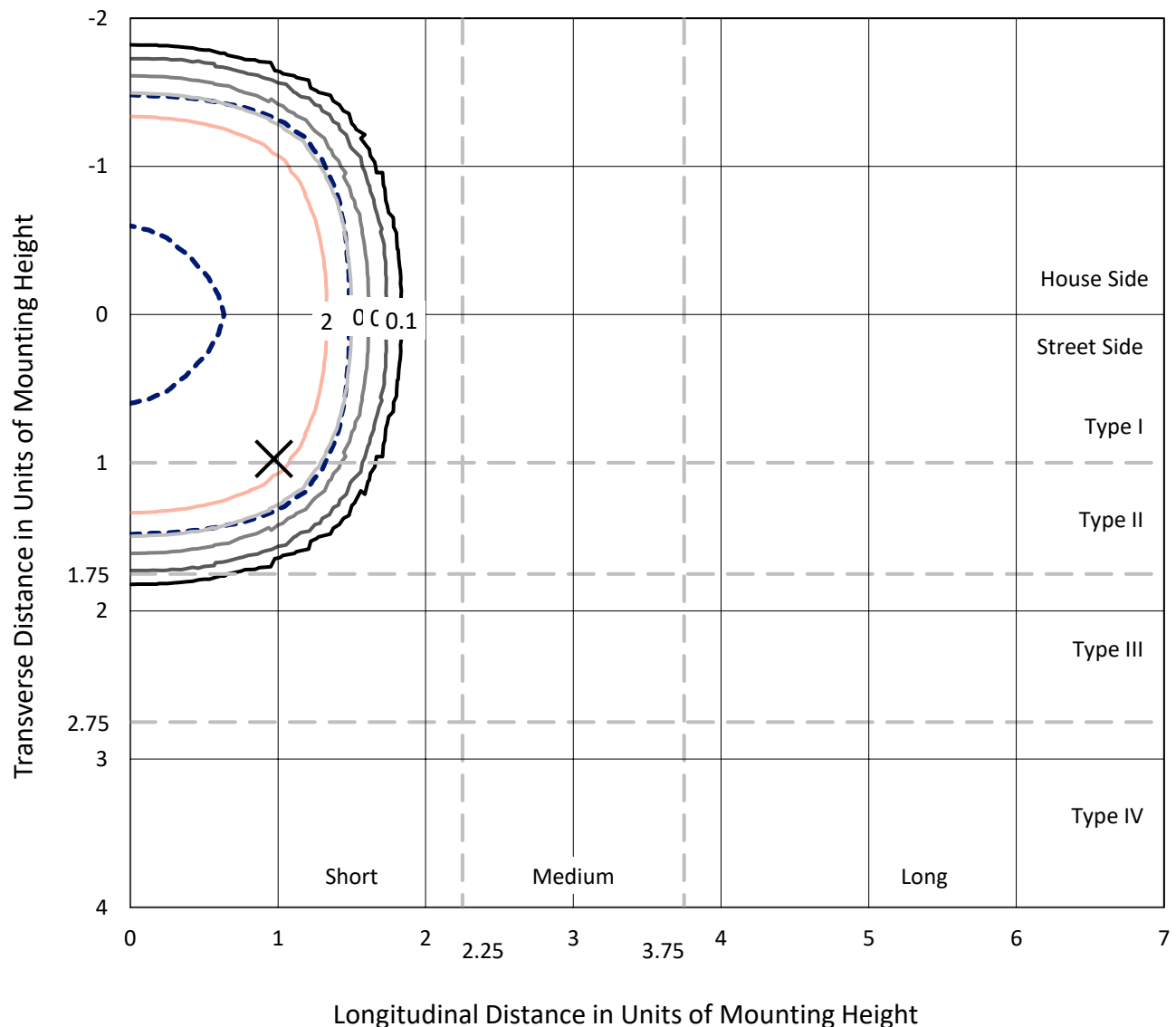
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

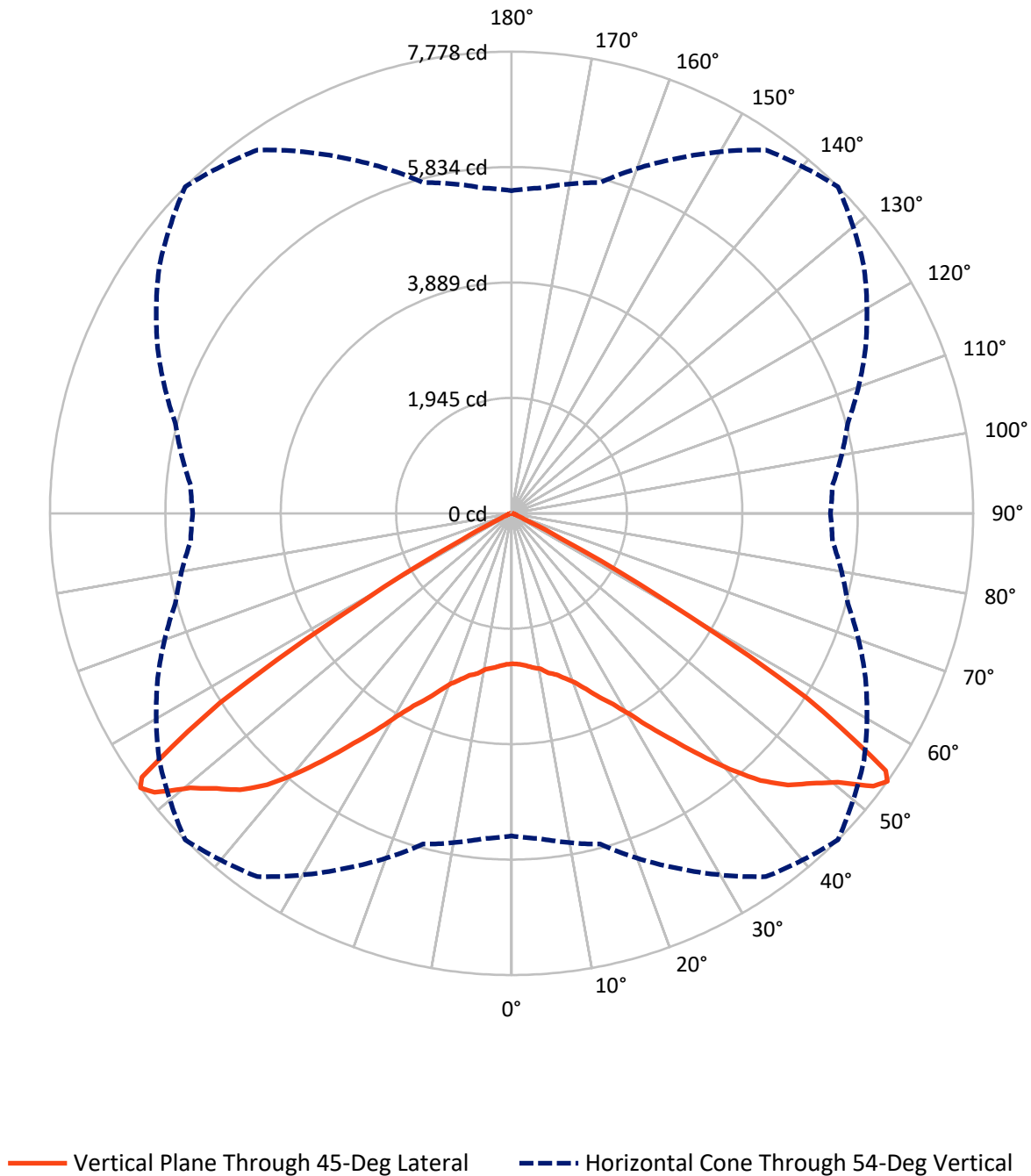
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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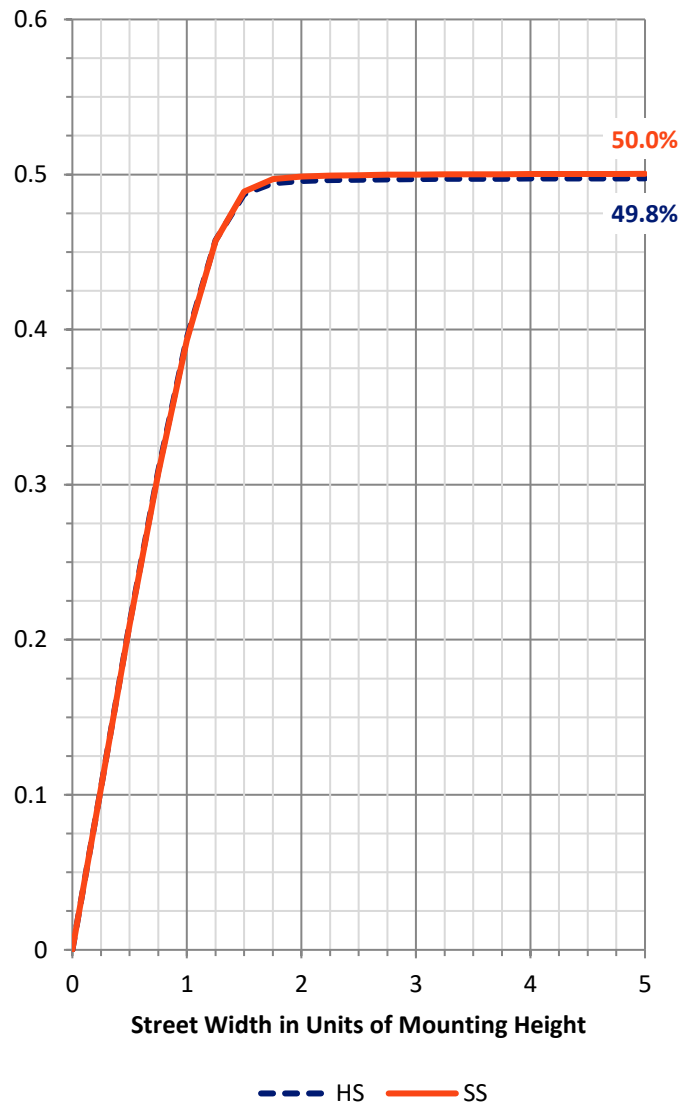
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7727.0   | 0.0    | 7727.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7727.0   | 0.0    | 7727.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 15454.0  | 0.0    | 15454.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 248.0   | 1.6       |
| 10°-20°   | 803.2   | 5.2       |
| 20°-30°   | 1574.2  | 10.2      |
| 30°-40°   | 2830.7  | 18.3      |
| 40°-50°   | 4845.6  | 31.4      |
| 50°-60°   | 4688.6  | 30.3      |
| 60°-70°   | 401.4   | 2.6       |
| 70°-80°   | 47.6    | 0.3       |
| 80°-90°   | 14.9    | 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°    | 15454.0 | 100.0     |
| 0°-180°   | 15454.0 | 100.0     |

**Coefficient of Utilization**



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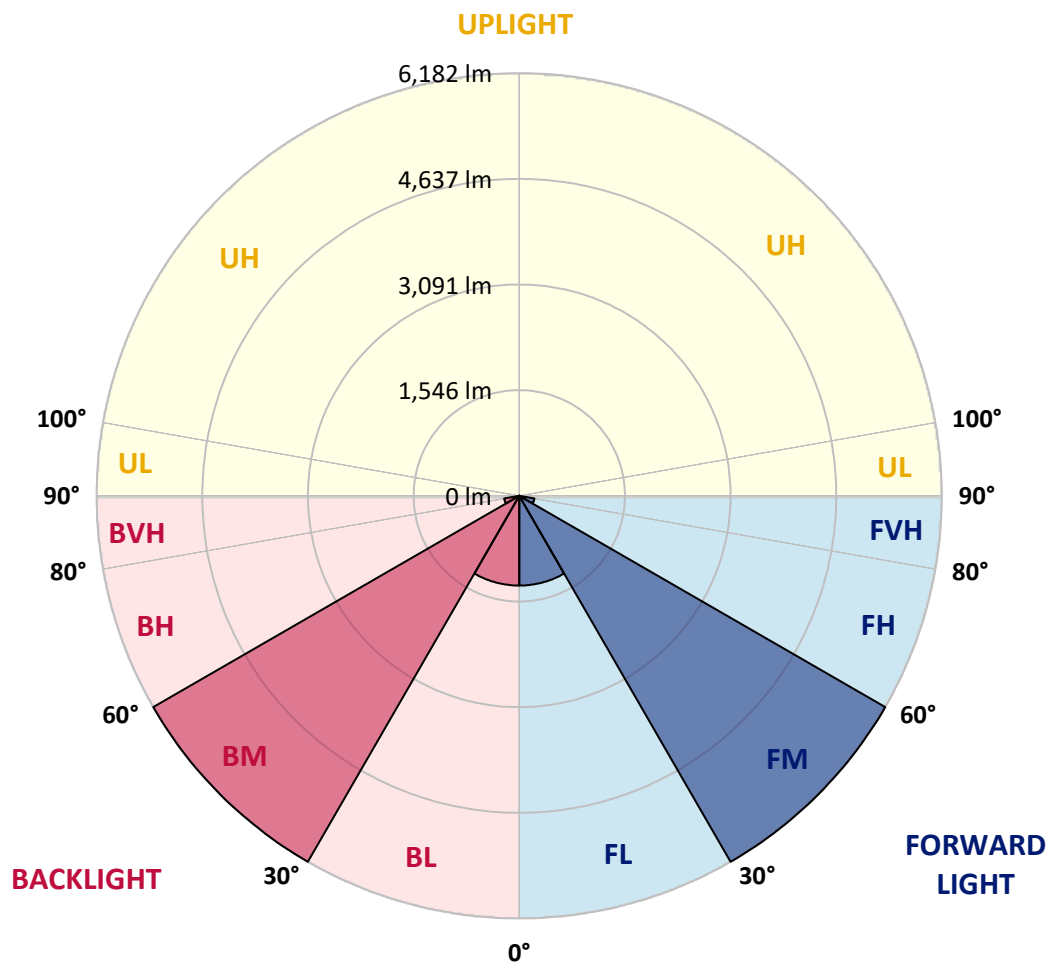
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 1312.7 | 8.5       |                         |      |        |
| FM   | (30°-60°)   | 6182.4 | 40.0      |                         |      |        |
| FH   | (60°-80°)   | 224.5  | 1.5       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 7.5    | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 1312.7 | 8.5       | B3/2500                 |      |        |
| BM   | (30°-60°)   | 6182.4 | 40.0      | B4/8500                 |      |        |
| BH   | (60°-80°)   | 224.5  | 1.5       | B1/500                  |      | G0/660 |
| BVH  | (80°-90°)   | 7.5    | 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°    | 2534.0 | 2534.0 | 2534.0 | 2534.0 | 2534.0 | 2534.0 | 2534.0 | 2534.0 | 2534.0 | 2534.0 | 2534.0 |
| 2.5°  | 2546.2 | 2560.9 | 2551.1 | 2558.5 | 2558.5 | 2546.2 | 2553.6 | 2524.2 | 2543.8 | 2529.1 | 2531.5 |
| 5°    | 2585.4 | 2582.9 | 2582.9 | 2585.4 | 2575.6 | 2580.5 | 2570.7 | 2560.9 | 2553.6 | 2543.8 | 2573.1 |
| 7.5°  | 2634.4 | 2634.4 | 2617.2 | 2622.1 | 2617.2 | 2624.6 | 2605.0 | 2585.4 | 2578.0 | 2570.7 | 2565.8 |
| 10°   | 2680.9 | 2676.0 | 2668.6 | 2690.7 | 2673.5 | 2663.7 | 2653.9 | 2641.7 | 2614.8 | 2605.0 | 2595.2 |
| 12.5° | 2749.4 | 2747.0 | 2737.2 | 2759.2 | 2749.4 | 2759.2 | 2722.5 | 2690.7 | 2685.8 | 2653.9 | 2671.1 |
| 15°   | 2830.2 | 2852.3 | 2835.1 | 2835.1 | 2830.2 | 2818.0 | 2803.3 | 2788.6 | 2744.5 | 2732.3 | 2734.7 |
| 17.5° | 2935.5 | 2928.1 | 2930.6 | 2930.6 | 2955.1 | 2923.3 | 2893.9 | 2857.1 | 2835.1 | 2827.8 | 2803.3 |
| 20°   | 3035.9 | 3045.7 | 3043.2 | 3060.4 | 3075.0 | 3040.8 | 3008.9 | 3004.0 | 2942.8 | 2952.6 | 2918.4 |
| 22.5° | 3212.1 | 3204.8 | 3217.0 | 3229.3 | 3219.5 | 3214.6 | 3185.2 | 3148.5 | 3094.6 | 3070.1 | 3065.3 |
| 25°   | 3398.2 | 3386.0 | 3363.9 | 3393.3 | 3408.0 | 3430.0 | 3373.7 | 3354.1 | 3270.9 | 3234.2 | 3236.6 |
| 27.5° | 3557.4 | 3574.5 | 3599.0 | 3611.2 | 3647.9 | 3640.6 | 3601.4 | 3537.8 | 3474.1 | 3432.5 | 3405.6 |
| 30°   | 3775.3 | 3785.0 | 3826.7 | 3843.8 | 3907.5 | 3924.6 | 3863.4 | 3789.9 | 3677.3 | 3623.5 | 3591.6 |
| 32.5° | 3976.0 | 4044.6 | 4042.1 | 4127.8 | 4230.6 | 4301.6 | 4191.5 | 4078.8 | 3966.2 | 3902.6 | 3846.3 |
| 35°   | 4301.6 | 4289.4 | 4360.4 | 4451.0 | 4617.5 | 4698.3 | 4578.3 | 4448.5 | 4277.2 | 4174.3 | 4130.3 |
| 37.5° | 4605.2 | 4610.1 | 4705.6 | 4850.1 | 5041.0 | 5165.9 | 5060.6 | 4847.6 | 4671.3 | 4539.1 | 4477.9 |
| 40°   | 5045.9 | 5055.7 | 5153.6 | 5317.7 | 5533.1 | 5667.8 | 5545.4 | 5329.9 | 5094.9 | 4992.1 | 4992.1 |
| 42.5° | 5562.5 | 5604.1 | 5667.8 | 5809.8 | 6003.2 | 6152.5 | 6042.4 | 5873.4 | 5636.0 | 5503.7 | 5523.3 |
| 45°   | 6093.8 | 6113.4 | 6155.0 | 6365.5 | 6456.1 | 6529.6 | 6426.7 | 6348.4 | 6189.3 | 6027.7 | 6000.7 |
| 47.5° | 6590.8 | 6598.1 | 6720.5 | 6786.6 | 6857.6 | 6796.4 | 6862.5 | 6759.7 | 6581.0 | 6424.3 | 6392.5 |
| 50°   | 6811.1 | 6798.9 | 6972.7 | 7173.5 | 7227.3 | 7119.6 | 7063.3 | 6994.7 | 6723.0 | 6534.5 | 6451.2 |
| 52.5° | 6169.7 | 6240.7 | 6563.9 | 7122.1 | 7543.2 | 7633.8 | 7305.7 | 6989.9 | 6483.1 | 6115.8 | 6059.5 |
| 54°   | 5435.2 | 5501.3 | 5768.2 | 6595.7 | 7472.2 | 7778.2 | 7249.4 | 6578.5 | 5863.6 | 5427.8 | 5371.5 |
| 55°   | 4708.1 | 4634.6 | 5119.4 | 5964.0 | 7139.2 | 7650.9 | 7026.6 | 6047.3 | 5229.5 | 4830.5 | 4752.1 |
| 57.5° | 2548.7 | 2560.9 | 2969.8 | 3767.9 | 5016.5 | 5866.1 | 5180.6 | 4091.1 | 3089.7 | 2641.7 | 2602.5 |
| 60°   | 807.9  | 827.5  | 1006.2 | 1522.8 | 2396.9 | 2862.0 | 2453.2 | 1642.8 | 1136.0 | 910.8  | 874.0  |
| 62.5° | 252.2  | 262.0  | 286.4  | 426.0  | 656.1  | 937.7  | 734.5  | 440.7  | 328.1  | 301.1  | 306.0  |
| 65°   | 154.2  | 154.2  | 156.7  | 166.5  | 195.9  | 227.7  | 220.3  | 193.4  | 186.1  | 181.2  | 178.7  |
| 67.5° | 100.4  | 97.9   | 102.8  | 110.2  | 115.1  | 117.5  | 124.9  | 132.2  | 129.8  | 124.9  | 124.9  |
| 70°   | 61.2   | 58.8   | 63.7   | 73.4   | 75.9   | 80.8   | 88.1   | 97.9   | 95.5   | 90.6   | 93.0   |
| 72.5° | 34.3   | 34.3   | 36.7   | 44.1   | 51.4   | 56.3   | 63.7   | 71.0   | 73.4   | 71.0   | 71.0   |
| 75°   | 12.2   | 14.7   | 19.6   | 26.9   | 31.8   | 39.2   | 46.5   | 53.9   | 61.2   | 56.3   | 53.9   |
| 77.5° | 4.9    | 4.9    | 9.8    | 17.1   | 24.5   | 31.8   | 44.1   | 51.4   | 56.3   | 51.4   | 46.5   |
| 80°   | 2.4    | 2.4    | 7.3    | 14.7   | 22.0   | 29.4   | 36.7   | 44.1   | 46.5   | 41.6   | 36.7   |
| 82.5° | 2.4    | 2.4    | 7.3    | 14.7   | 22.0   | 26.9   | 39.2   | 44.1   | 49.0   | 44.1   | 36.7   |
| 85°   | 0.0    | 2.4    | 7.3    | 14.7   | 19.6   | 22.0   | 22.0   | 14.7   | 12.2   | 7.3    | 7.3    |
| 87.5° | 0.0    | 0.0    | 2.4    | 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)