

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: McGRAW-EDISON

Report Number: P529263

Luminaire Tested: **GALN-SA4B-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529263  
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: MCGRAW-EDISON  
Catalog Number: GALN-SA4B-830-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 800mA 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: 12288 lumens  
Efficiency: N/A  
Efficacy: 74.9 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

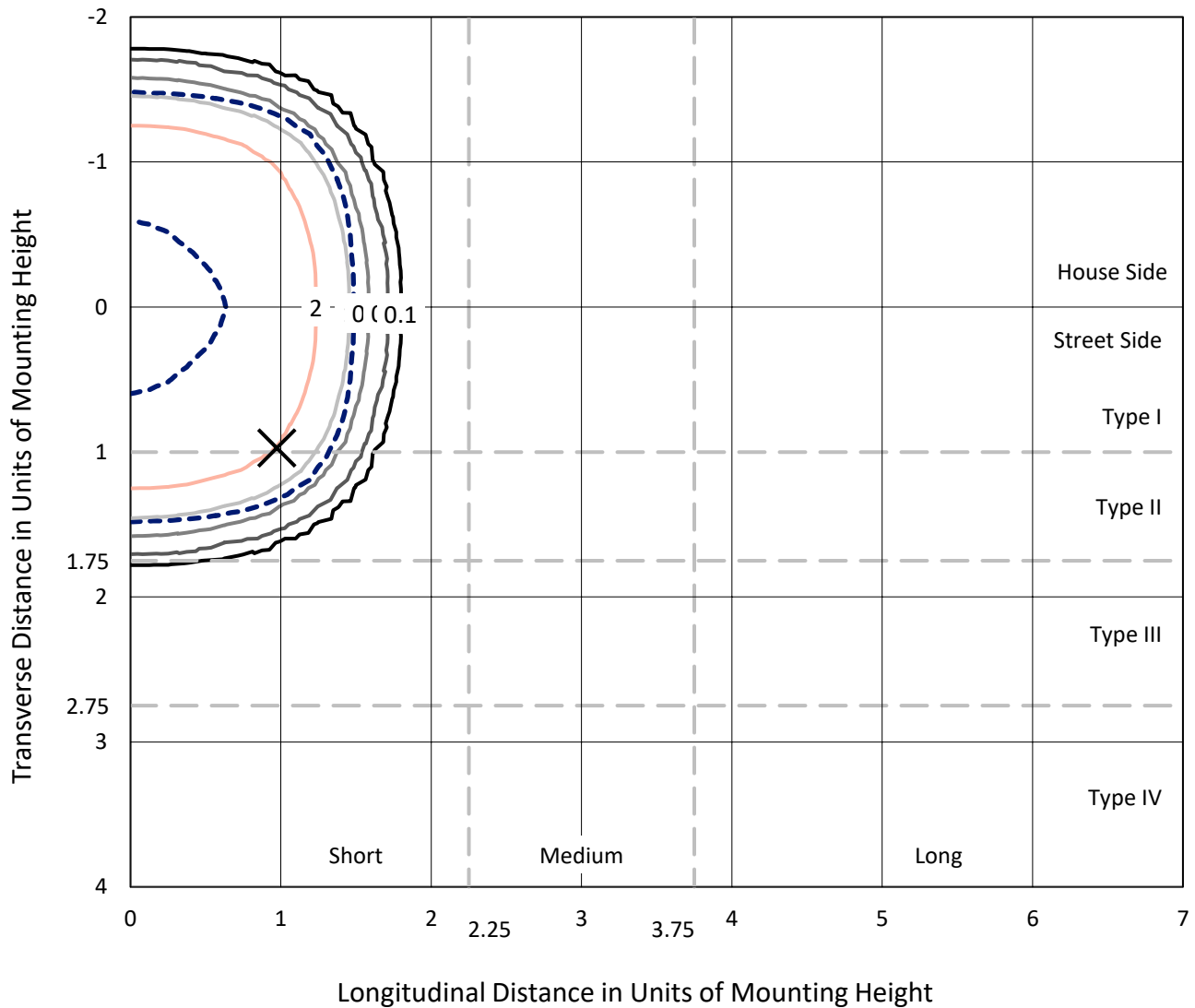


REPORT NUMBER: P529263

CATALOG NUMBER: GALN-SA4B-830-U-5NQ-GRSBK

## Iso-Footcandle Lines of Horizontal Illumination

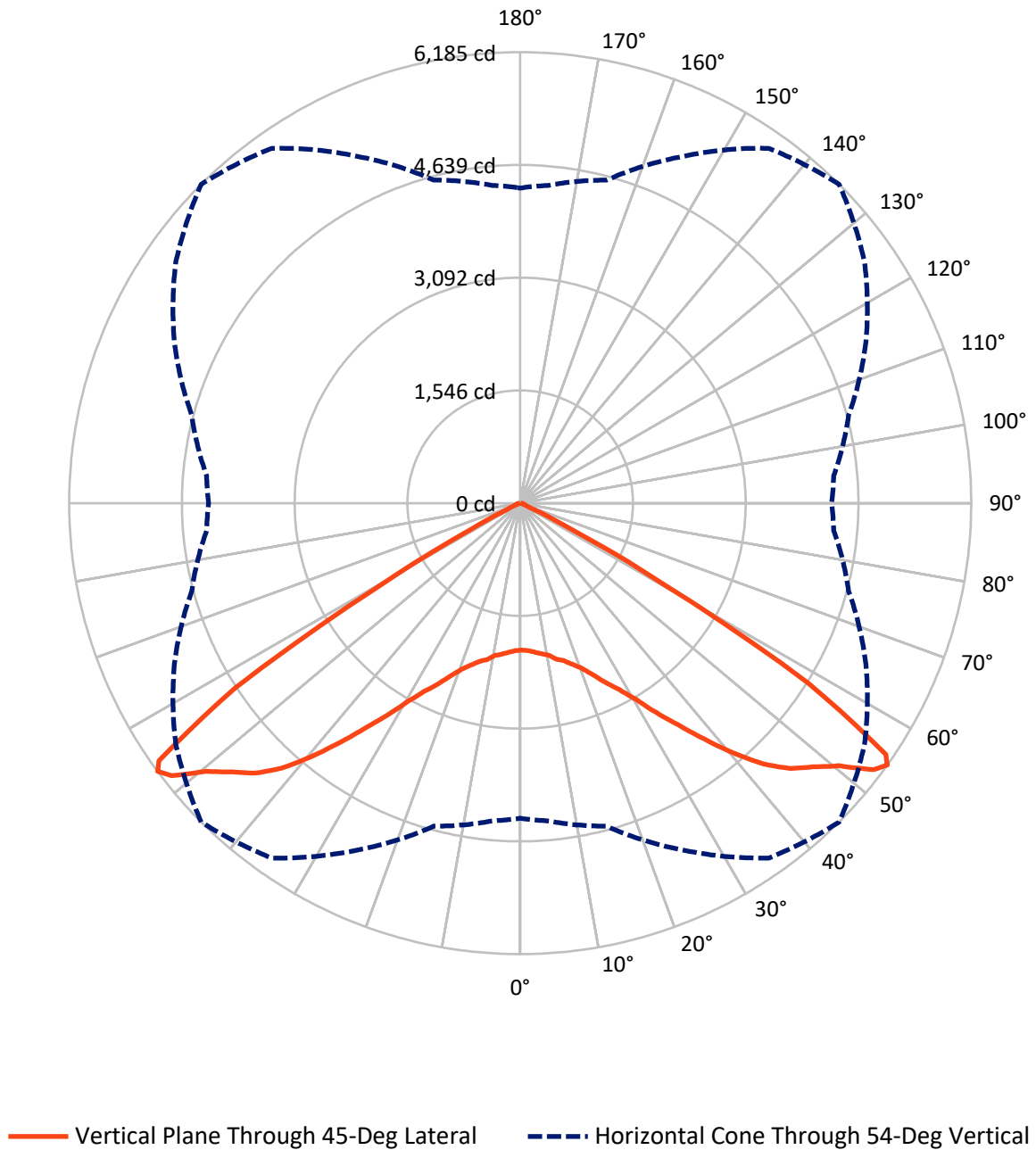
✕ Max cd  
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type V - Short - N/A

REPORT NUMBER: P529263  
CATALOG NUMBER: GALN-SA4B-830-U-5NQ-GRSBK

## Luminous Intensity Polar Plot



REPORT NUMBER: P529263

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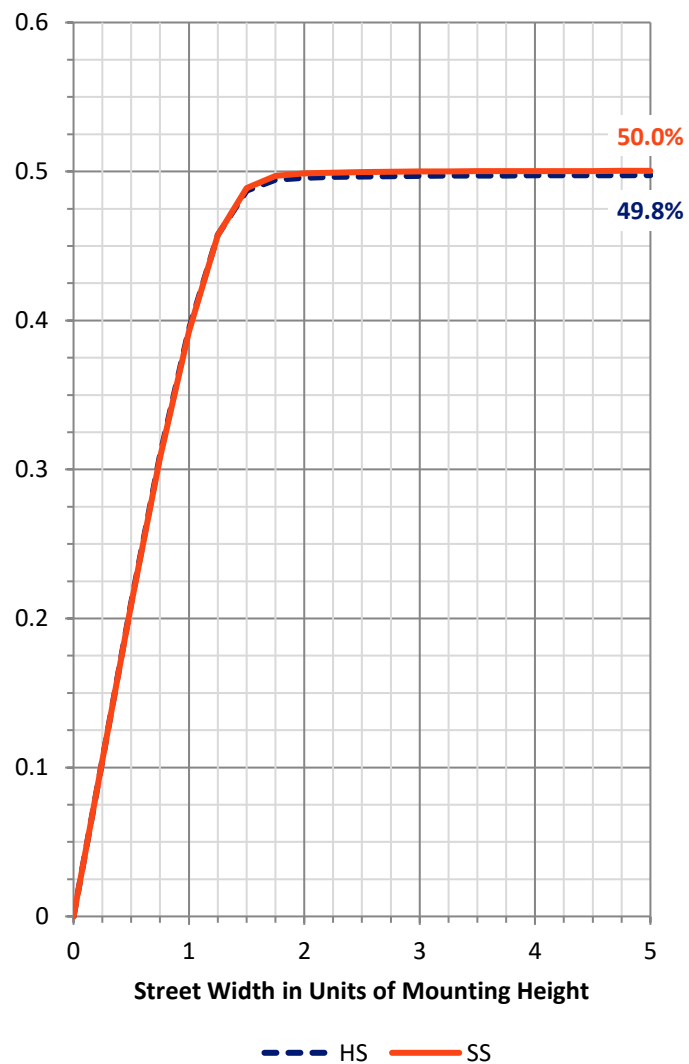
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6144.0   | 0.0    | 6144.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6144.0   | 0.0    | 6144.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 12288.0  | 0.0    | 12288.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 197.2   | 1.6       |
| 10°-20°   | 638.6   | 5.2       |
| 20°-30°   | 1251.7  | 10.2      |
| 30°-40°   | 2250.8  | 18.3      |
| 40°-50°   | 3852.9  | 31.4      |
| 50°-60°   | 3728.0  | 30.3      |
| 60°-70°   | 319.1   | 2.6       |
| 70°-80°   | 37.8    | 0.3       |
| 80°-90°   | 11.8    | 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°    | 12288.0 | 100.0     |
| 0°-180°   | 12288.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P529263

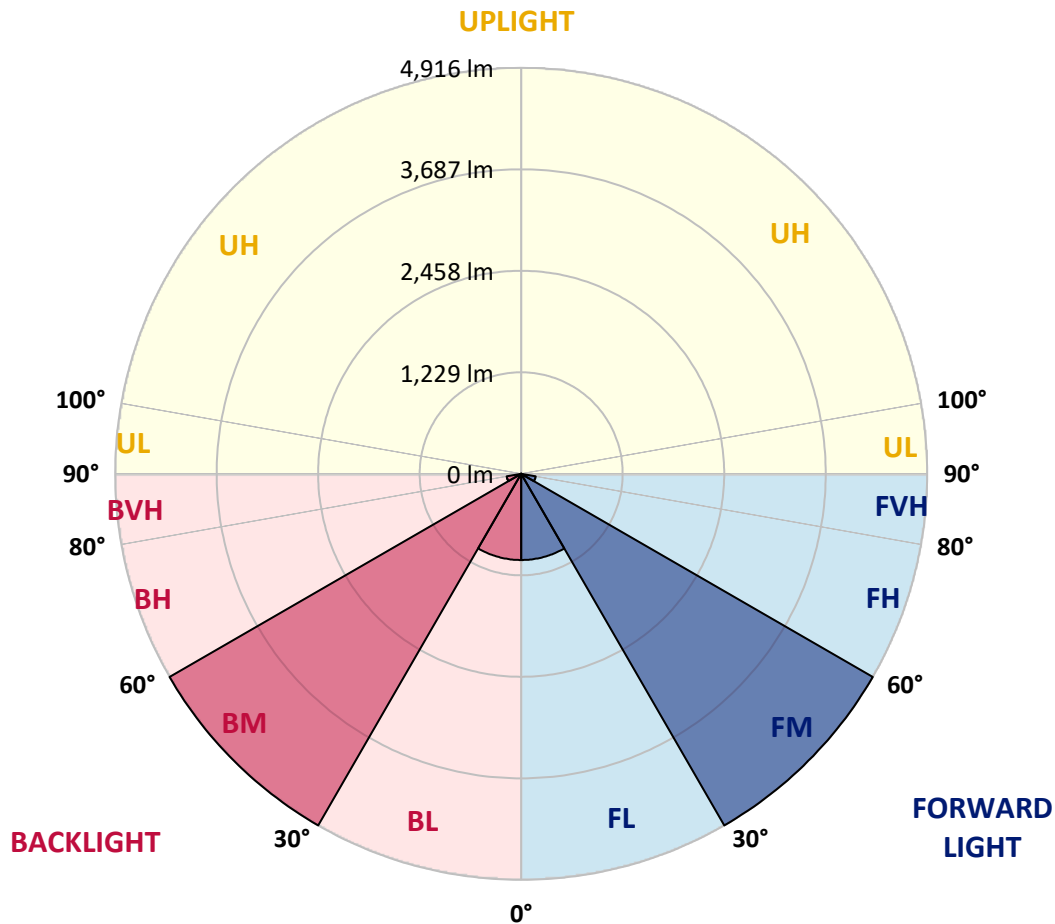
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 1043.7 | 8.5       |                         |      |        |
| FM   | (30°-60°)   | 4915.8 | 40.0      |                         |      |        |
| FH   | (60°-80°)   | 178.5  | 1.5       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 5.9    | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 1043.7 | 8.5       | B3/2500                 |      |        |
| BM   | (30°-60°)   | 4915.8 | 40.0      | B3/5000                 |      |        |
| BH   | (60°-80°)   | 178.5  | 1.5       | B1/500                  |      | G0/660 |
| BVH  | (80°-90°)   | 5.9    | 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



REPORT NUMBER: P529263

CATALOG NUMBER: GALN-SA4B-830-U-5NQ-GRSBK

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2014.8 | 2014.8 | 2014.8 | 2014.8 | 2014.8 | 2014.8 | 2014.8 | 2014.8 | 2014.8 | 2014.8 | 2014.8 |
| 2.5°  | 2024.6 | 2036.3 | 2028.5 | 2034.3 | 2034.3 | 2024.6 | 2030.4 | 2007.1 | 2022.6 | 2011.0 | 2012.9 |
| 5°    | 2055.7 | 2053.8 | 2053.8 | 2055.7 | 2047.9 | 2051.8 | 2044.0 | 2036.3 | 2030.4 | 2022.6 | 2046.0 |
| 7.5°  | 2094.7 | 2094.7 | 2081.0 | 2084.9 | 2081.0 | 2086.9 | 2071.3 | 2055.7 | 2049.9 | 2044.0 | 2040.2 |
| 10°   | 2131.7 | 2127.8 | 2121.9 | 2139.4 | 2125.8 | 2118.0 | 2110.2 | 2100.5 | 2079.1 | 2071.3 | 2063.5 |
| 12.5° | 2186.2 | 2184.2 | 2176.4 | 2193.9 | 2186.2 | 2193.9 | 2164.7 | 2139.4 | 2135.5 | 2110.2 | 2123.9 |
| 15°   | 2250.4 | 2267.9 | 2254.3 | 2254.3 | 2250.4 | 2240.7 | 2229.0 | 2217.3 | 2182.3 | 2172.5 | 2174.5 |
| 17.5° | 2334.1 | 2328.3 | 2330.2 | 2330.2 | 2349.7 | 2324.4 | 2301.0 | 2271.8 | 2254.3 | 2248.5 | 2229.0 |
| 20°   | 2413.9 | 2421.7 | 2419.8 | 2433.4 | 2445.1 | 2417.8 | 2392.5 | 2388.6 | 2340.0 | 2347.7 | 2320.5 |
| 22.5° | 2554.1 | 2548.2 | 2558.0 | 2567.7 | 2559.9 | 2556.0 | 2532.7 | 2503.5 | 2460.6 | 2441.2 | 2437.3 |
| 25°   | 2702.0 | 2692.3 | 2674.8 | 2698.1 | 2709.8 | 2727.3 | 2682.6 | 2667.0 | 2600.8 | 2571.6 | 2573.6 |
| 27.5° | 2828.6 | 2842.2 | 2861.7 | 2871.4 | 2900.6 | 2894.8 | 2863.6 | 2813.0 | 2762.4 | 2729.3 | 2707.9 |
| 30°   | 3001.8 | 3009.6 | 3042.7 | 3056.3 | 3107.0 | 3120.6 | 3071.9 | 3013.5 | 2924.0 | 2881.1 | 2855.8 |
| 32.5° | 3161.5 | 3216.0 | 3214.0 | 3282.2 | 3363.9 | 3420.4 | 3332.8 | 3243.2 | 3153.7 | 3103.1 | 3058.3 |
| 35°   | 3420.4 | 3410.6 | 3467.1 | 3539.1 | 3671.5 | 3735.7 | 3640.4 | 3537.2 | 3400.9 | 3319.1 | 3284.1 |
| 37.5° | 3661.8 | 3665.7 | 3741.6 | 3856.4 | 4008.3 | 4107.6 | 4023.9 | 3854.5 | 3714.3 | 3609.2 | 3560.5 |
| 40°   | 4012.2 | 4020.0 | 4097.8 | 4228.3 | 4399.6 | 4506.6 | 4409.3 | 4238.0 | 4051.1 | 3969.4 | 3969.4 |
| 42.5° | 4422.9 | 4456.0 | 4506.6 | 4619.6 | 4773.3 | 4892.1 | 4804.5 | 4670.2 | 4481.3 | 4376.2 | 4391.8 |
| 45°   | 4845.4 | 4860.9 | 4894.0 | 5061.5 | 5133.5 | 5191.9 | 5110.1 | 5047.8 | 4921.3 | 4792.8 | 4771.4 |
| 47.5° | 5240.6 | 5246.4 | 5343.7 | 5396.3 | 5452.7 | 5404.1 | 5456.6 | 5374.9 | 5232.8 | 5108.2 | 5082.9 |
| 50°   | 5415.8 | 5406.0 | 5544.2 | 5703.9 | 5746.7 | 5661.0 | 5616.3 | 5561.8 | 5345.7 | 5195.8 | 5129.6 |
| 52.5° | 4905.7 | 4962.2 | 5219.1 | 5663.0 | 5997.8 | 6069.9 | 5809.0 | 5557.9 | 5154.9 | 4862.9 | 4818.1 |
| 54°   | 4321.7 | 4374.3 | 4586.5 | 5244.4 | 5941.4 | 6184.7 | 5764.2 | 5230.8 | 4662.4 | 4315.9 | 4271.1 |
| 55°   | 3743.5 | 3685.1 | 4070.6 | 4742.2 | 5676.6 | 6083.5 | 5587.1 | 4808.4 | 4158.2 | 3840.9 | 3778.6 |
| 57.5° | 2026.5 | 2036.3 | 2361.4 | 2996.0 | 3988.8 | 4664.3 | 4119.2 | 3253.0 | 2456.8 | 2100.5 | 2069.4 |
| 60°   | 642.4  | 658.0  | 800.1  | 1210.9 | 1905.8 | 2275.7 | 1950.6 | 1306.2 | 903.3  | 724.2  | 695.0  |
| 62.5° | 200.5  | 208.3  | 227.8  | 338.7  | 521.7  | 745.6  | 584.0  | 350.4  | 260.9  | 239.4  | 243.3  |
| 65°   | 122.6  | 122.6  | 124.6  | 132.4  | 155.7  | 181.0  | 175.2  | 153.8  | 148.0  | 144.1  | 142.1  |
| 67.5° | 79.8   | 77.9   | 81.8   | 87.6   | 91.5   | 93.4   | 99.3   | 105.1  | 103.2  | 99.3   | 99.3   |
| 70°   | 48.7   | 46.7   | 50.6   | 58.4   | 60.3   | 64.2   | 70.1   | 77.9   | 75.9   | 72.0   | 74.0   |
| 72.5° | 27.3   | 27.3   | 29.2   | 35.0   | 40.9   | 44.8   | 50.6   | 56.5   | 58.4   | 56.5   | 56.5   |
| 75°   | 9.7    | 11.7   | 15.6   | 21.4   | 25.3   | 31.1   | 37.0   | 42.8   | 48.7   | 44.8   | 42.8   |
| 77.5° | 3.9    | 3.9    | 7.8    | 13.6   | 19.5   | 25.3   | 35.0   | 40.9   | 44.8   | 40.9   | 37.0   |
| 80°   | 1.9    | 1.9    | 5.8    | 11.7   | 17.5   | 23.4   | 29.2   | 35.0   | 37.0   | 33.1   | 29.2   |
| 82.5° | 1.9    | 1.9    | 5.8    | 11.7   | 17.5   | 21.4   | 31.1   | 35.0   | 38.9   | 35.0   | 29.2   |
| 85°   | 0.0    | 1.9    | 5.8    | 11.7   | 15.6   | 17.5   | 17.5   | 11.7   | 9.7    | 5.8    | 5.8    |
| 87.5° | 0.0    | 0.0    | 1.9    | 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)