

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: P949135

Luminaire Tested: **GALN-SB4A-727-U-5MQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P949135  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4A-727-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 17463 lumens  
Efficiency: N/A  
Efficacy: 153.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 114  
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



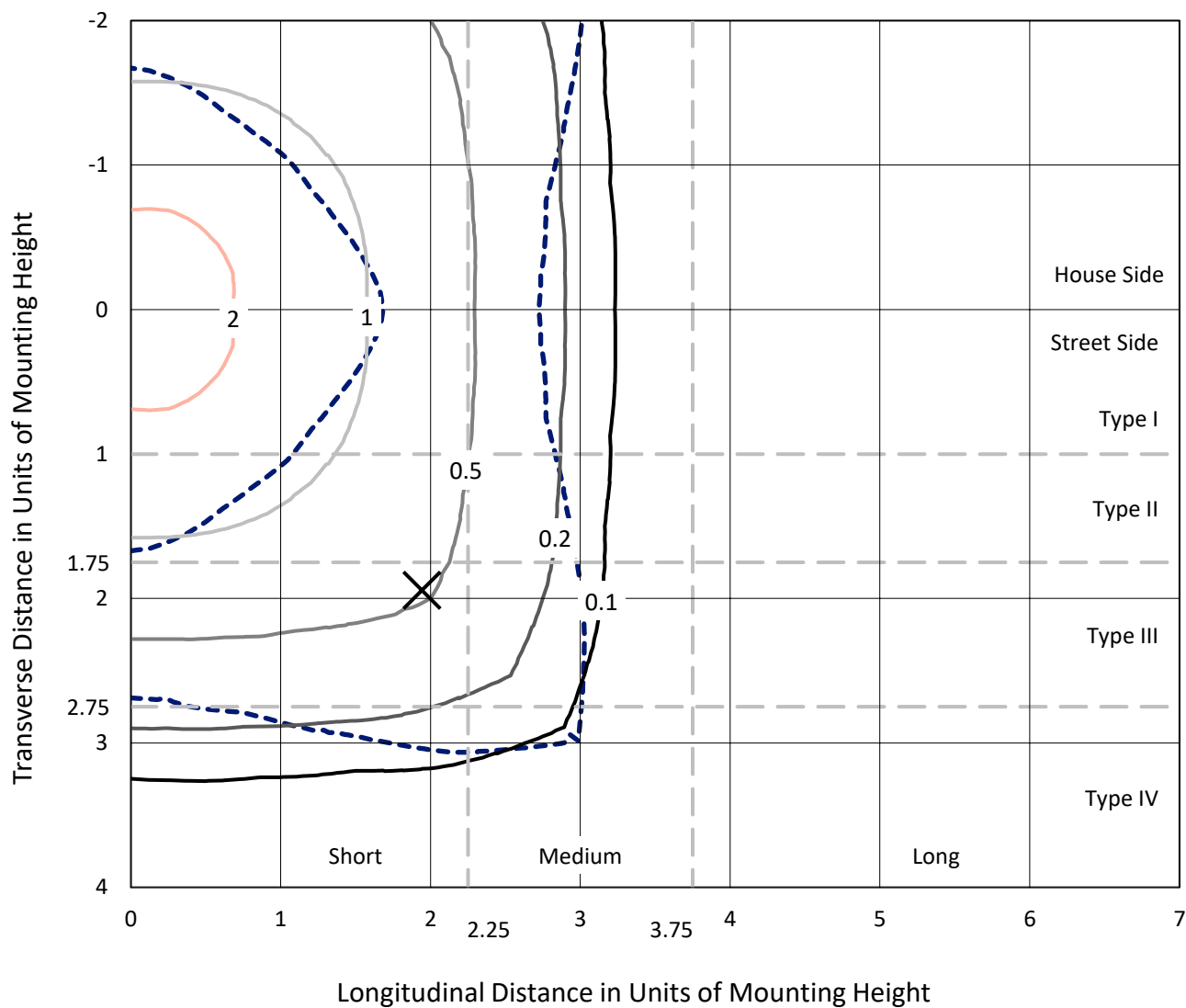
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

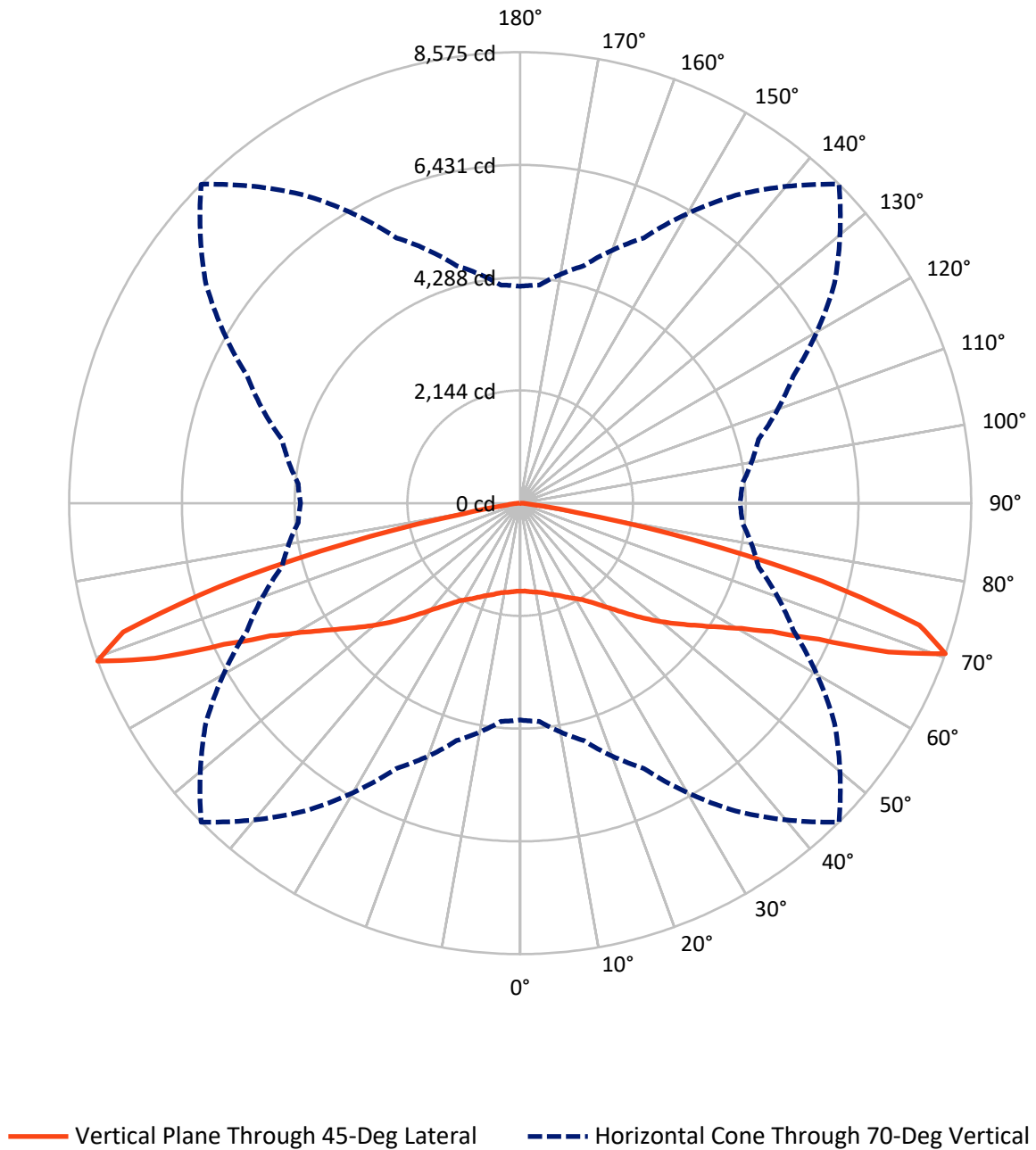


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type V - Short - N/A

REPORT NUMBER: P949135

CATALOG NUMBER: GALN-SB4A-727-U-5MQ

## Luminous Intensity Polar Plot



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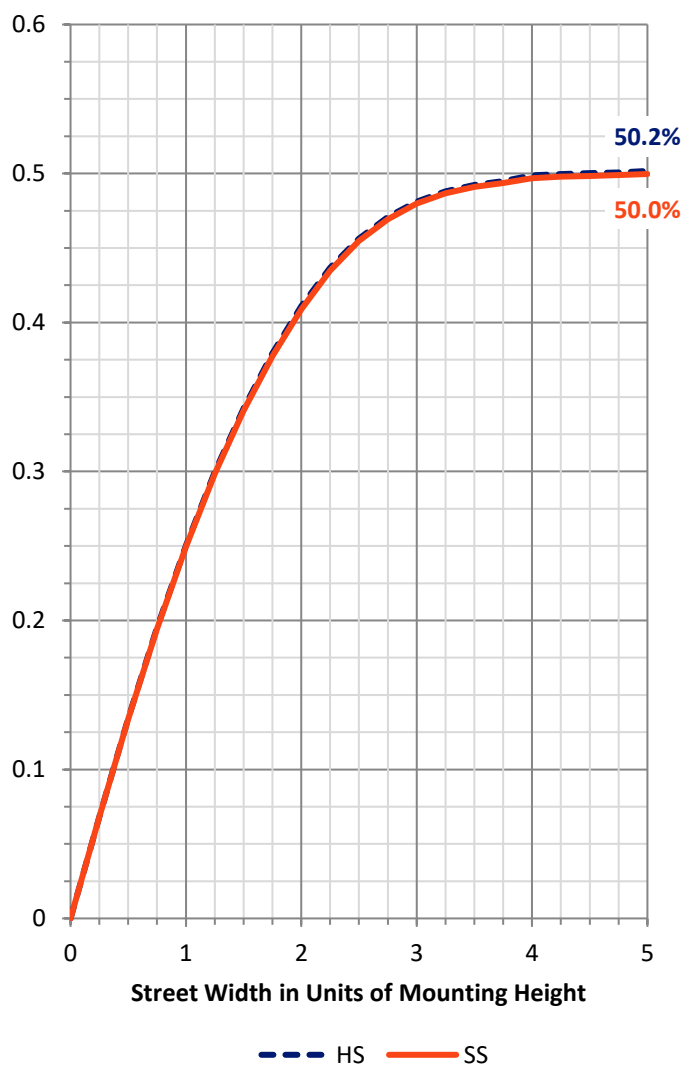
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8731.5   | 0.0    | 8731.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8731.5   | 0.0    | 8731.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 17463.0  | 0.0    | 17463.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 162.5   | 0.9       |
| 10°-20°   | 503.9   | 2.9       |
| 20°-30°   | 900.6   | 5.2       |
| 30°-40°   | 1459.8  | 8.4       |
| 40°-50°   | 2377.8  | 13.6      |
| 50°-60°   | 3625.4  | 20.8      |
| 60°-70°   | 5393.4  | 30.9      |
| 70°-80°   | 2939.6  | 16.8      |
| 80°-90°   | 100.1   | 0.6       |
| 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°    | 17463.0 | 100.0     |
| 0°-180°   | 17463.0 | 100.0     |

**Coefficient of Utilization**



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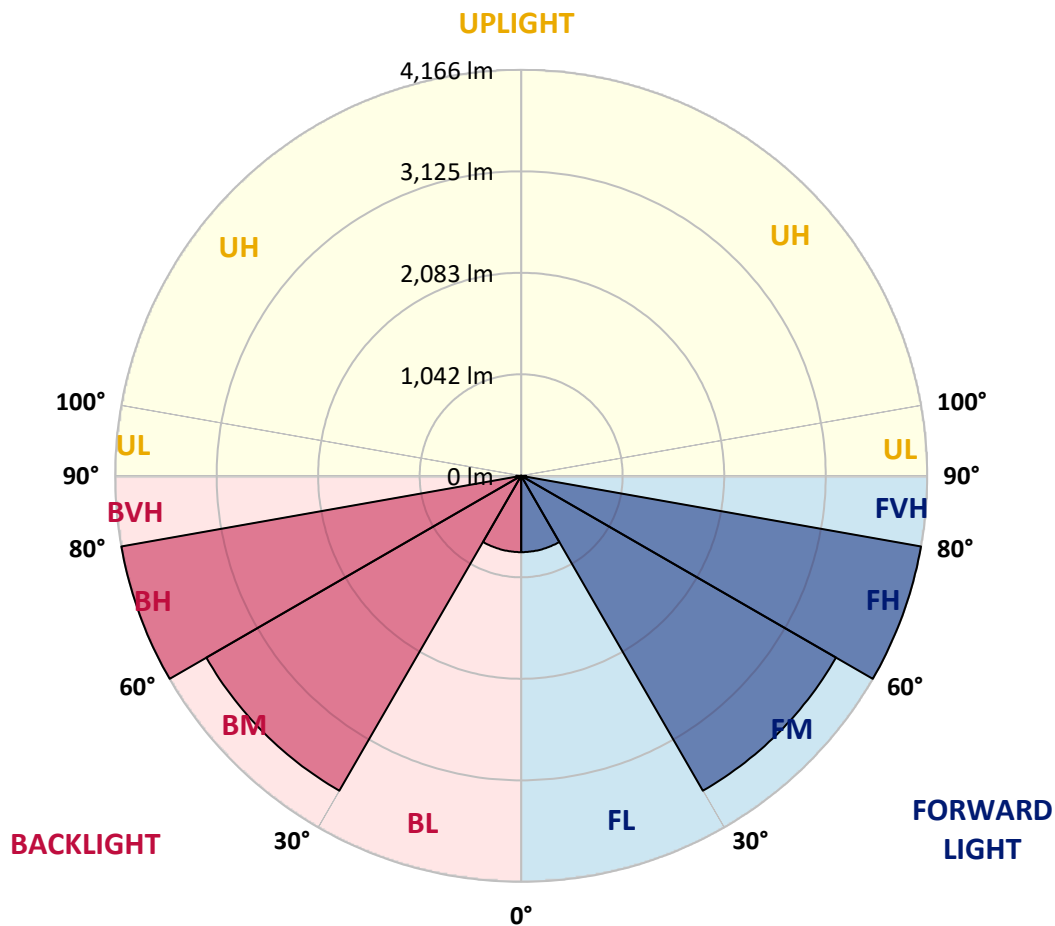
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 783.5  | 4.5       |                         |      |         |
| FM   | (30°-60°)   | 3731.5 | 21.4      |                         |      |         |
| FH   | (60°-80°)   | 4166.5 | 23.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 50.0   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 783.5  | 4.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3731.5 | 21.4      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 4166.5 | 23.9      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 50.0   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1672.8 | 1672.8 | 1672.8 | 1672.8 | 1672.8 | 1672.8 | 1672.8 | 1672.8 | 1672.8 | 1672.8 | 1672.8 |
| 2.5°  | 1680.7 | 1682.4 | 1678.9 | 1677.2 | 1675.4 | 1672.8 | 1673.7 | 1678.0 | 1681.5 | 1680.7 | 1681.5 |
| 5°    | 1694.7 | 1696.4 | 1693.8 | 1692.9 | 1689.4 | 1688.6 | 1688.6 | 1692.9 | 1695.6 | 1693.8 | 1694.7 |
| 7.5°  | 1710.5 | 1713.1 | 1708.7 | 1707.8 | 1706.1 | 1704.3 | 1703.5 | 1707.8 | 1710.5 | 1710.5 | 1710.5 |
| 10°   | 1725.4 | 1728.0 | 1724.5 | 1721.9 | 1720.1 | 1720.1 | 1718.4 | 1721.9 | 1726.3 | 1725.4 | 1725.4 |
| 12.5° | 1741.2 | 1742.9 | 1739.4 | 1737.7 | 1737.7 | 1740.3 | 1737.7 | 1739.4 | 1742.9 | 1741.2 | 1740.3 |
| 15°   | 1760.4 | 1761.3 | 1760.4 | 1763.1 | 1767.5 | 1776.2 | 1768.3 | 1766.6 | 1768.3 | 1764.0 | 1764.0 |
| 17.5° | 1786.7 | 1788.5 | 1792.0 | 1798.1 | 1804.3 | 1820.1 | 1806.0 | 1801.7 | 1801.7 | 1792.9 | 1792.9 |
| 20°   | 1819.2 | 1821.8 | 1827.1 | 1837.6 | 1845.5 | 1860.4 | 1846.4 | 1840.2 | 1837.6 | 1826.2 | 1826.2 |
| 22.5° | 1853.4 | 1857.8 | 1865.7 | 1879.7 | 1893.7 | 1907.7 | 1893.7 | 1883.2 | 1875.3 | 1860.4 | 1859.5 |
| 25°   | 1892.8 | 1898.1 | 1910.4 | 1933.2 | 1952.4 | 1972.6 | 1956.0 | 1934.9 | 1919.1 | 1898.1 | 1897.2 |
| 27.5° | 1948.9 | 1955.1 | 1970.0 | 1998.0 | 2022.6 | 2040.1 | 2024.3 | 1997.2 | 1975.2 | 1949.8 | 1948.9 |
| 30°   | 2027.8 | 2034.0 | 2051.5 | 2081.3 | 2098.0 | 2109.4 | 2098.9 | 2077.8 | 2051.5 | 2022.6 | 2022.6 |
| 32.5° | 2129.5 | 2137.4 | 2156.7 | 2184.8 | 2188.3 | 2190.0 | 2186.5 | 2176.0 | 2156.7 | 2121.7 | 2122.5 |
| 35°   | 2258.4 | 2267.2 | 2289.1 | 2311.9 | 2308.4 | 2311.9 | 2306.6 | 2303.1 | 2289.1 | 2248.8 | 2248.8 |
| 37.5° | 2416.2 | 2426.8 | 2449.5 | 2467.1 | 2458.3 | 2453.9 | 2454.8 | 2455.7 | 2447.8 | 2403.1 | 2403.1 |
| 40°   | 2599.5 | 2613.5 | 2630.1 | 2648.6 | 2633.7 | 2620.5 | 2629.3 | 2636.3 | 2629.3 | 2583.7 | 2583.7 |
| 42.5° | 2788.0 | 2808.1 | 2825.7 | 2852.0 | 2839.7 | 2823.0 | 2835.3 | 2843.2 | 2828.3 | 2779.2 | 2782.7 |
| 45°   | 2997.5 | 3016.8 | 3039.6 | 3079.0 | 3070.3 | 3052.7 | 3070.3 | 3072.0 | 3046.6 | 2988.7 | 2994.9 |
| 47.5° | 3214.0 | 3234.2 | 3268.4 | 3321.0 | 3317.5 | 3298.2 | 3321.0 | 3308.7 | 3276.3 | 3207.0 | 3202.6 |
| 50°   | 3419.2 | 3447.2 | 3499.9 | 3573.5 | 3580.5 | 3556.8 | 3587.5 | 3563.9 | 3509.5 | 3422.7 | 3420.9 |
| 52.5° | 3612.1 | 3641.9 | 3725.2 | 3825.1 | 3850.5 | 3819.9 | 3861.1 | 3819.9 | 3738.3 | 3627.0 | 3616.5 |
| 55°   | 3814.6 | 3847.9 | 3947.0 | 4077.6 | 4128.5 | 4105.7 | 4144.2 | 4082.0 | 3966.3 | 3831.3 | 3812.8 |
| 57.5° | 4053.1 | 4073.2 | 4191.6 | 4346.8 | 4432.7 | 4437.9 | 4455.5 | 4350.3 | 4210.0 | 4056.6 | 4035.5 |
| 60°   | 4311.7 | 4339.7 | 4468.6 | 4654.5 | 4790.4 | 4834.2 | 4815.8 | 4659.7 | 4496.7 | 4320.5 | 4292.4 |
| 62.5° | 4643.1 | 4673.8 | 4828.1 | 5050.8 | 5265.6 | 5374.3 | 5302.4 | 5076.2 | 4874.5 | 4663.3 | 4626.4 |
| 65°   | 4917.5 | 4951.7 | 5230.5 | 5627.6 | 6018.7 | 6237.0 | 6056.4 | 5639.9 | 5277.0 | 4978.9 | 4929.8 |
| 67.5° | 4718.5 | 4760.6 | 5198.1 | 5927.5 | 6899.8 | 7551.2 | 6933.1 | 6016.9 | 5305.9 | 4901.7 | 4841.2 |
| 70°   | 4124.1 | 4163.5 | 4673.8 | 5565.4 | 7147.9 | 8575.2 | 7296.9 | 5729.3 | 4690.4 | 4238.0 | 4177.6 |
| 72.5° | 2738.0 | 2865.1 | 3381.5 | 4451.1 | 6382.5 | 7935.2 | 6445.6 | 4360.8 | 3136.9 | 2731.8 | 2643.3 |
| 75°   | 908.3  | 1010.0 | 1362.4 | 2307.5 | 4274.9 | 5934.5 | 4069.7 | 2041.9 | 1079.2 | 776.8  | 734.7  |
| 77.5° | 228.8  | 263.9  | 363.8  | 660.2  | 1705.2 | 3378.9 | 1535.1 | 539.2  | 293.7  | 205.2  | 183.2  |
| 80°   | 111.3  | 122.7  | 175.3  | 220.1  | 427.0  | 1074.0 | 400.7  | 206.9  | 138.5  | 107.0  | 98.2   |
| 82.5° | 61.4   | 62.2   | 99.1   | 124.5  | 158.7  | 277.9  | 164.8  | 121.0  | 79.8   | 64.9   | 64.9   |
| 85°   | 37.7   | 36.8   | 52.6   | 66.6   | 66.6   | 99.1   | 78.9   | 66.6   | 45.6   | 40.3   | 42.1   |
| 87.5° | 14.9   | 14.9   | 19.3   | 21.0   | 18.4   | 25.4   | 20.2   | 21.9   | 17.5   | 16.7   | 17.5   |
| 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)