

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: P528853

Luminaire Tested: **GALN-SA4A-727-U-RW-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528853  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-727-U-RW-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9778 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

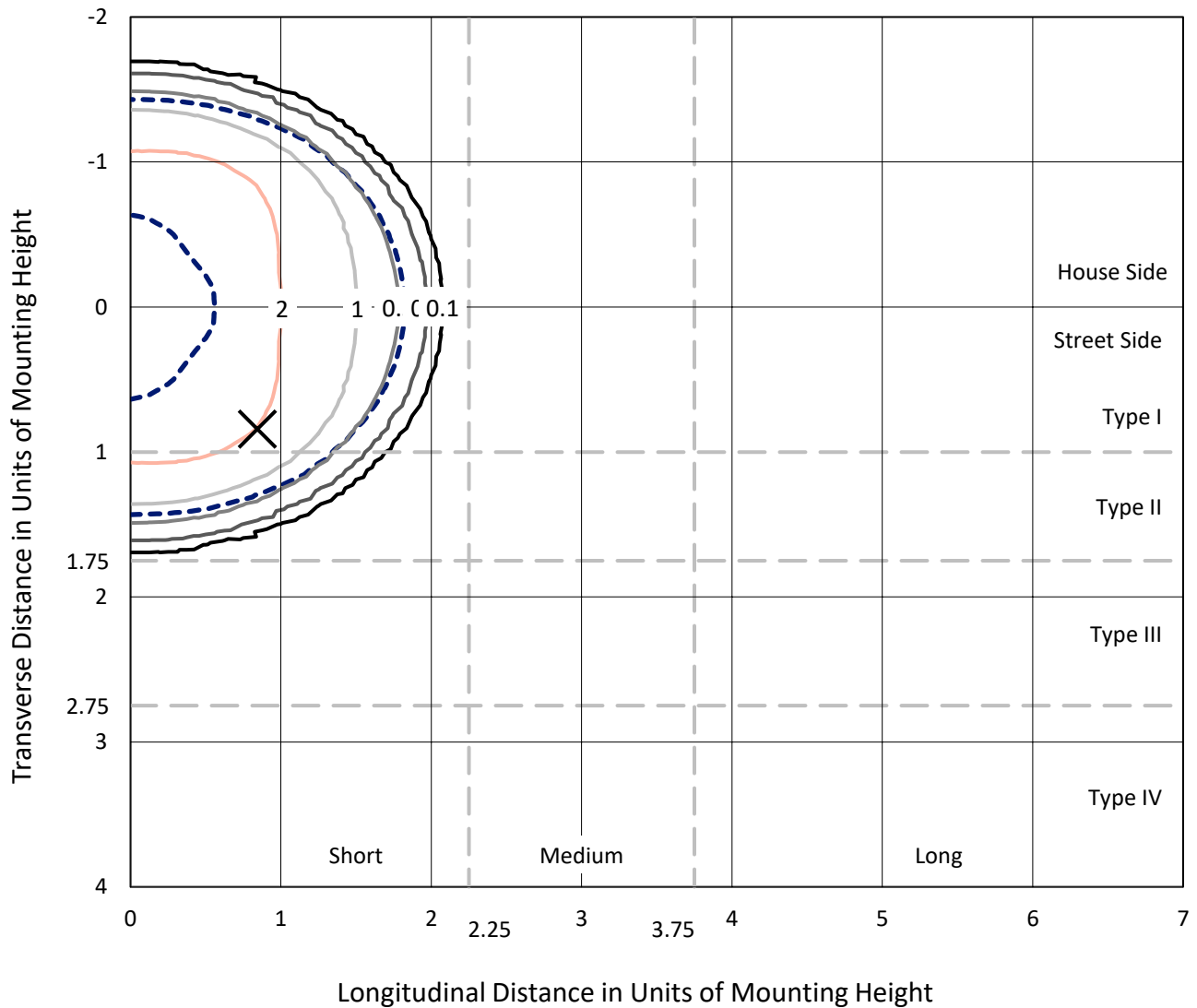
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

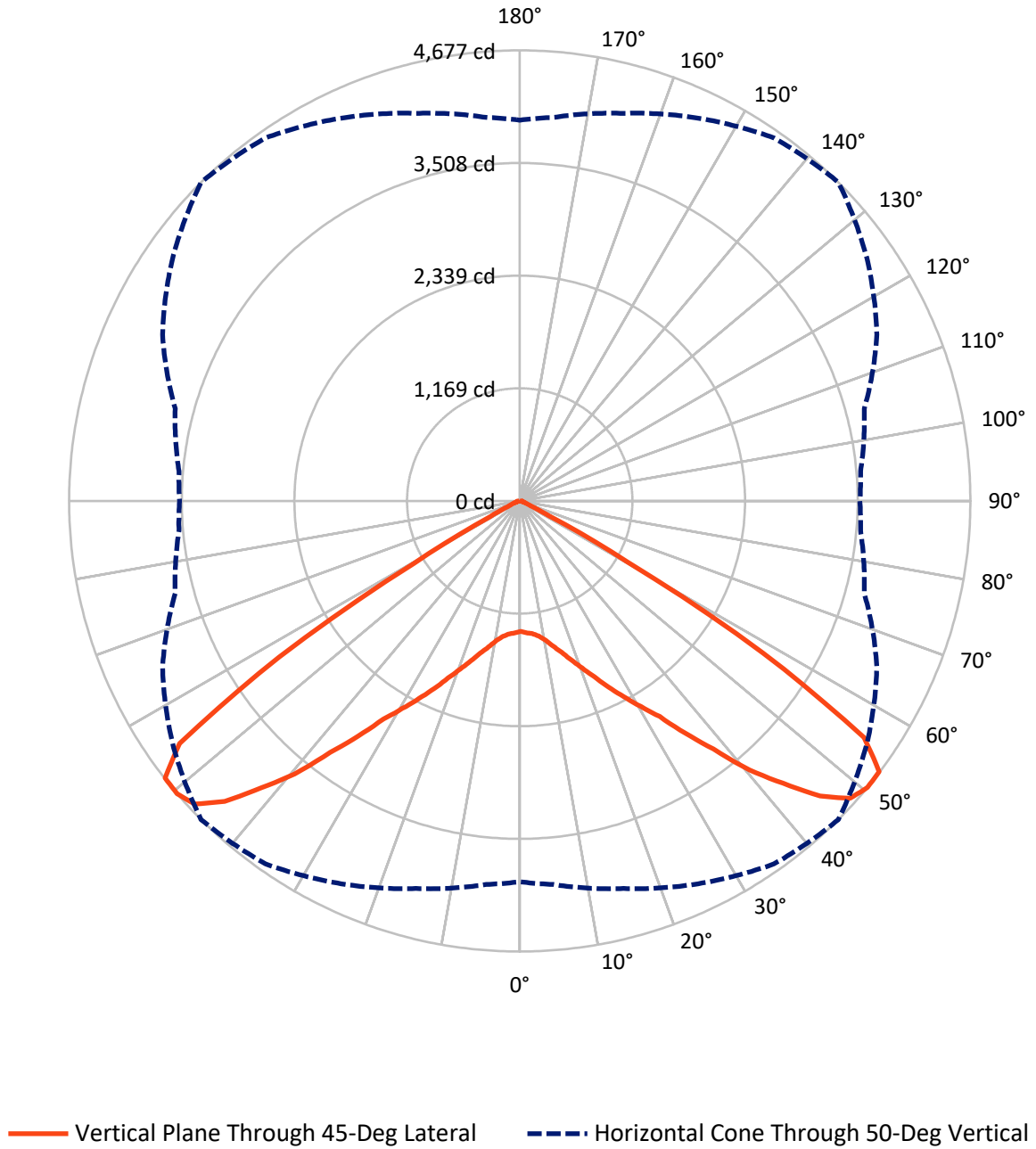
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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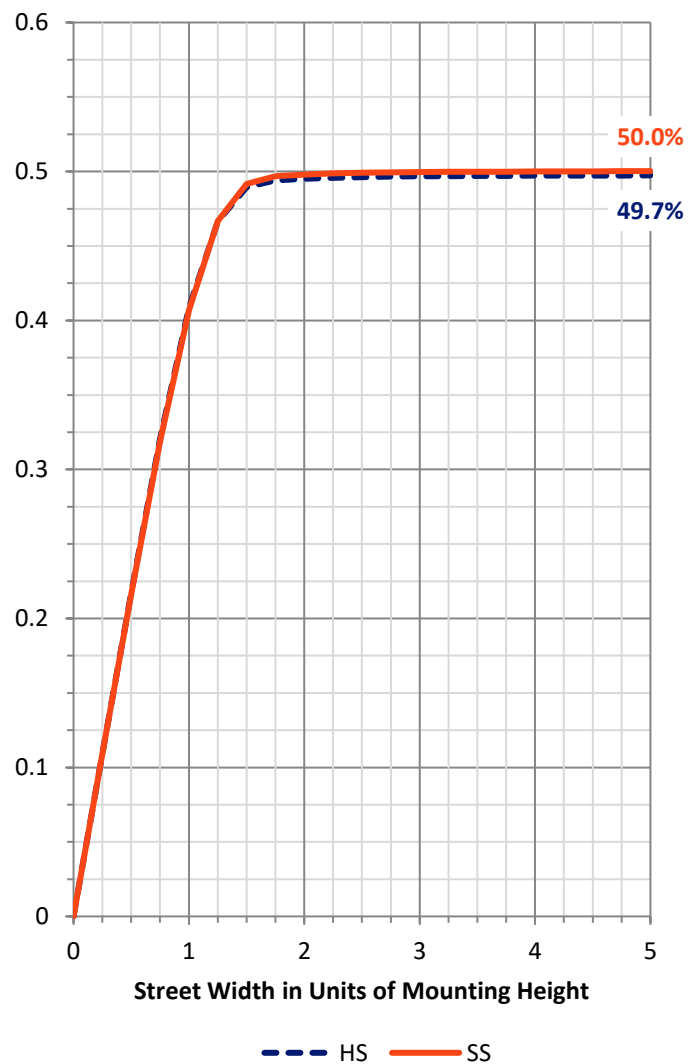
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4889.0   | 0.0    | 4889.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4889.0   | 0.0    | 4889.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9778.0   | 0.0    | 9778.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 134.9  | 1.4       |
| 10°-20°   | 464.8  | 4.8       |
| 20°-30°   | 949.3  | 9.7       |
| 30°-40°   | 1810.4 | 18.5      |
| 40°-50°   | 3050.8 | 31.2      |
| 50°-60°   | 2909.4 | 29.8      |
| 60°-70°   | 406.1  | 4.2       |
| 70°-80°   | 38.8   | 0.4       |
| 80°-90°   | 13.4   | 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°    | 9778.0 | 100.0     |
| 0°-180°   | 9778.0 | 100.0     |



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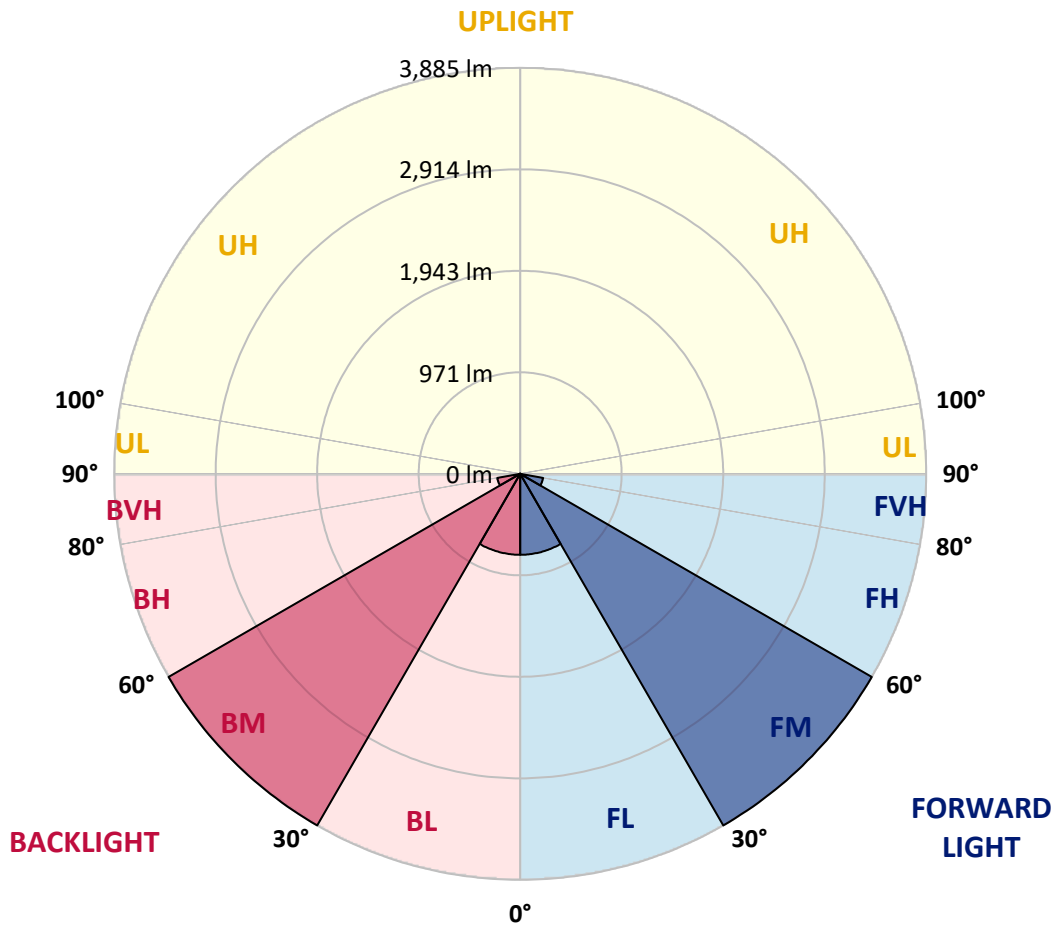
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 774.5  | 7.9       |                         |      |        |
| FM (30°-60°)   | 3885.3 | 39.7      |                         |      |        |
| FH (60°-80°)   | 222.5  | 2.3       |                         |      | G0/660 |
| FVH (80°-90°)  | 6.7    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 774.5  | 7.9       | B2/1000                 |      |        |
| BM (30°-60°)   | 3885.3 | 39.7      | B3/5000                 |      |        |
| BH (60°-80°)   | 222.5  | 2.3       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 6.7    | 0.1       |                         |      | 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: P528853

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1355.6 | 1355.6 | 1355.6 | 1355.6 | 1355.6 | 1355.6 | 1355.6 | 1355.6 | 1355.6 | 1355.6 | 1355.6 |
| 2.5°  | 1350.7 | 1350.7 | 1349.0 | 1362.2 | 1355.6 | 1370.4 | 1368.8 | 1373.7 | 1378.6 | 1377.0 | 1390.2 |
| 5°    | 1339.2 | 1337.5 | 1337.5 | 1352.3 | 1367.1 | 1383.6 | 1398.4 | 1408.3 | 1424.7 | 1424.7 | 1441.2 |
| 7.5°  | 1350.7 | 1342.5 | 1354.0 | 1360.5 | 1388.5 | 1416.5 | 1441.2 | 1460.9 | 1498.7 | 1511.9 | 1507.0 |
| 10°   | 1354.0 | 1363.8 | 1372.1 | 1391.8 | 1426.4 | 1469.1 | 1490.5 | 1539.9 | 1582.6 | 1612.3 | 1618.8 |
| 12.5° | 1375.4 | 1390.2 | 1413.2 | 1460.9 | 1492.2 | 1548.1 | 1577.7 | 1625.4 | 1684.6 | 1717.5 | 1740.6 |
| 15°   | 1416.5 | 1421.4 | 1451.0 | 1511.9 | 1579.4 | 1630.4 | 1676.4 | 1711.0 | 1768.5 | 1806.4 | 1808.0 |
| 17.5° | 1469.1 | 1490.5 | 1531.6 | 1589.2 | 1660.0 | 1735.6 | 1771.8 | 1809.7 | 1831.1 | 1882.1 | 1893.6 |
| 20°   | 1574.4 | 1577.7 | 1617.2 | 1692.9 | 1781.7 | 1850.8 | 1877.1 | 1896.9 | 1888.6 | 1941.3 | 1951.2 |
| 22.5° | 1673.1 | 1676.4 | 1725.8 | 1827.8 | 1923.2 | 1982.4 | 1993.9 | 1982.4 | 1957.7 | 1995.6 | 1998.9 |
| 25°   | 1773.5 | 1803.1 | 1839.3 | 1941.3 | 2059.7 | 2138.7 | 2140.4 | 2109.1 | 2058.1 | 2064.7 | 2081.1 |
| 27.5° | 1929.8 | 1951.2 | 1989.0 | 2082.8 | 2212.7 | 2301.6 | 2286.8 | 2248.9 | 2183.1 | 2188.1 | 2183.1 |
| 30°   | 2112.4 | 2132.1 | 2163.4 | 2283.5 | 2378.9 | 2476.0 | 2497.4 | 2461.2 | 2362.5 | 2341.1 | 2365.7 |
| 32.5° | 2332.8 | 2360.8 | 2418.4 | 2528.6 | 2609.2 | 2668.5 | 2683.3 | 2670.1 | 2578.0 | 2569.7 | 2586.2 |
| 35°   | 2601.0 | 2638.8 | 2691.5 | 2788.5 | 2854.4 | 2961.3 | 2961.3 | 2916.9 | 2833.0 | 2842.8 | 2841.2 |
| 37.5° | 2884.0 | 2939.9 | 3022.2 | 3120.9 | 3209.7 | 3267.3 | 3249.2 | 3211.4 | 3127.4 | 3106.1 | 3127.4 |
| 40°   | 3239.3 | 3267.3 | 3370.9 | 3499.3 | 3607.8 | 3673.6 | 3596.3 | 3514.1 | 3313.4 | 3344.6 | 3402.2 |
| 42.5° | 3563.4 | 3607.8 | 3686.8 | 3828.3 | 3951.7 | 4006.0 | 3913.8 | 3751.0 | 3509.1 | 3484.4 | 3527.2 |
| 45°   | 3839.8 | 3887.5 | 3991.2 | 4193.5 | 4323.5 | 4371.2 | 4167.2 | 3904.0 | 3627.6 | 3565.1 | 3583.2 |
| 47.5° | 4024.1 | 4048.7 | 4193.5 | 4386.0 | 4504.4 | 4613.0 | 4320.2 | 4009.3 | 3683.5 | 3565.1 | 3558.5 |
| 50°   | 3953.3 | 3996.1 | 4165.5 | 4384.4 | 4599.9 | 4677.2 | 4397.5 | 4089.9 | 3701.6 | 3550.3 | 3530.5 |
| 52.5° | 3510.8 | 3584.8 | 3774.0 | 4068.5 | 4394.2 | 4670.6 | 4504.4 | 4063.5 | 3695.0 | 3565.1 | 3594.7 |
| 55°   | 2443.1 | 2444.7 | 2675.0 | 3109.4 | 3685.2 | 4336.6 | 4348.2 | 4093.2 | 3737.8 | 3657.2 | 3658.8 |
| 57.5° | 982.2  | 1031.5 | 1207.5 | 1643.5 | 2174.9 | 2977.7 | 3540.4 | 3797.0 | 3742.7 | 3723.0 | 3774.0 |
| 60°   | 248.4  | 250.1  | 304.4  | 463.9  | 765.0  | 1276.6 | 1854.1 | 2508.9 | 2888.9 | 3018.9 | 3037.0 |
| 62.5° | 126.7  | 128.3  | 141.5  | 164.5  | 208.9  | 342.2  | 608.7  | 965.7  | 1373.7 | 1581.0 | 1635.3 |
| 65°   | 103.6  | 103.6  | 111.9  | 123.4  | 125.0  | 131.6  | 157.9  | 225.4  | 327.4  | 371.8  | 376.7  |
| 67.5° | 79.0   | 79.0   | 85.5   | 92.1   | 95.4   | 93.8   | 90.5   | 93.8   | 113.5  | 108.6  | 105.3  |
| 70°   | 49.4   | 51.0   | 54.3   | 60.9   | 64.2   | 65.8   | 67.5   | 70.7   | 80.6   | 83.9   | 80.6   |
| 72.5° | 29.6   | 29.6   | 31.3   | 36.2   | 41.1   | 44.4   | 49.4   | 52.6   | 57.6   | 65.8   | 64.2   |
| 75°   | 13.2   | 13.2   | 16.5   | 21.4   | 26.3   | 31.3   | 36.2   | 41.1   | 44.4   | 49.4   | 51.0   |
| 77.5° | 3.3    | 4.9    | 8.2    | 14.8   | 19.7   | 26.3   | 32.9   | 37.8   | 41.1   | 41.1   | 39.5   |
| 80°   | 1.6    | 1.6    | 6.6    | 11.5   | 21.4   | 28.0   | 36.2   | 39.5   | 44.4   | 41.1   | 36.2   |
| 82.5° | 1.6    | 1.6    | 6.6    | 11.5   | 19.7   | 28.0   | 37.8   | 42.8   | 46.1   | 41.1   | 34.5   |
| 85°   | 0.0    | 1.6    | 4.9    | 9.9    | 16.5   | 19.7   | 16.5   | 11.5   | 6.6    | 6.6    | 4.9    |
| 87.5° | 0.0    | 0.0    | 1.6    | 1.6    | 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)