

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: P651824

Luminaire Tested: **GALN-SA4A-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651824  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-840-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7936.5 lumens  
Efficiency: N/A  
Efficacy: 65.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

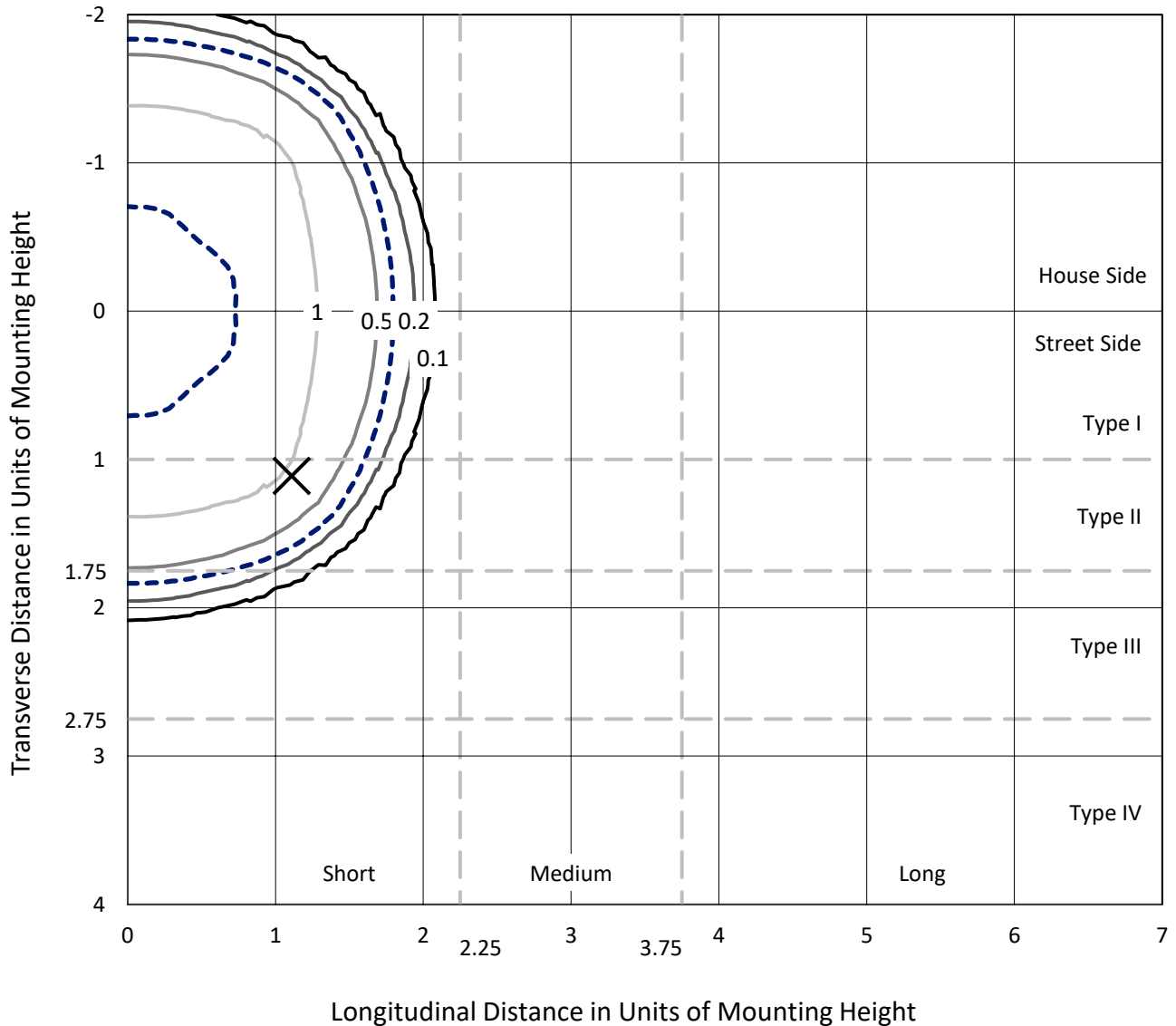
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

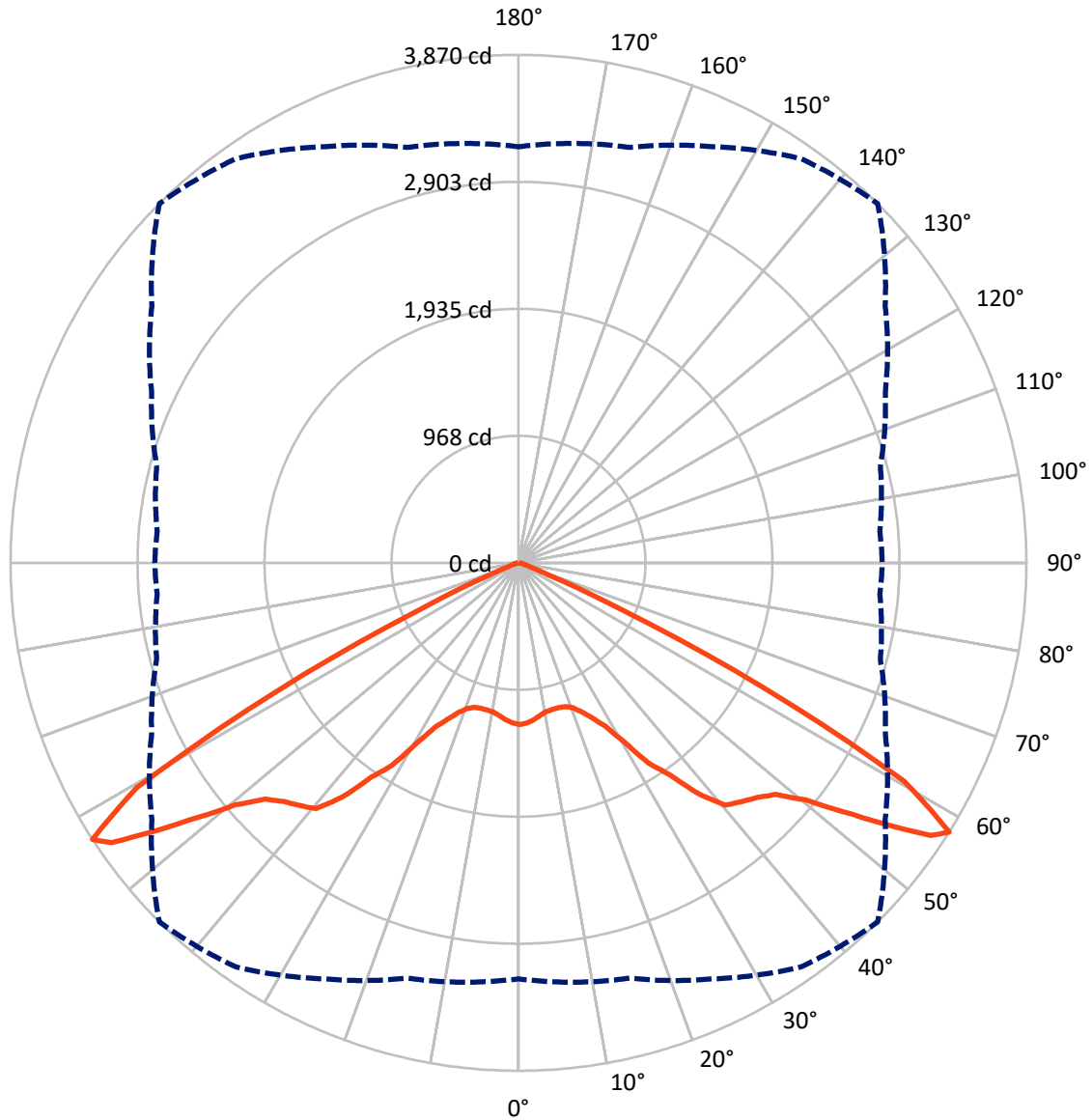
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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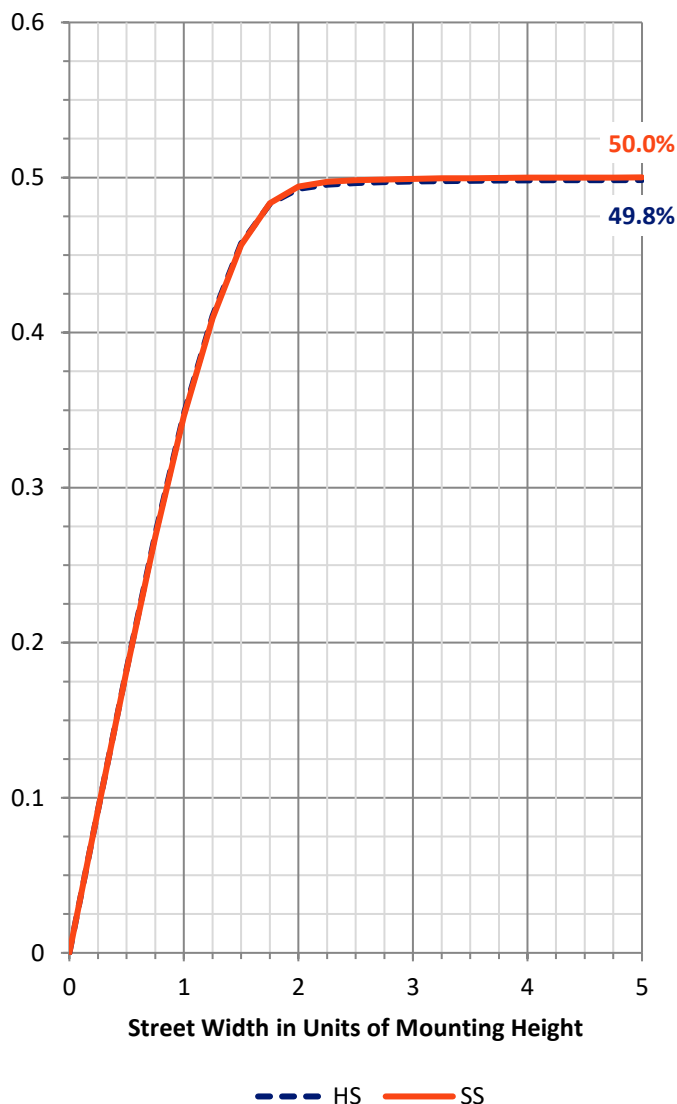
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3968.2   | 0.0    | 3968.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3968.2   | 0.0    | 3968.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 7936.5   | 0.0    | 7936.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 113.1  | 1.4       |
| 10°-20°   | 327.0  | 4.1       |
| 20°-30°   | 603.6  | 7.6       |
| 30°-40°   | 1187.0 | 15.0      |
| 40°-50°   | 1933.3 | 24.4      |
| 50°-60°   | 2757.1 | 34.7      |
| 60°-70°   | 954.6  | 12.0      |
| 70°-80°   | 51.2   | 0.6       |
| 80°-90°   | 9.6    | 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°    | 7936.5 | 100.0     |
| 0°-180°   | 7936.5 | 100.0     |

**Coefficient of Utilization**

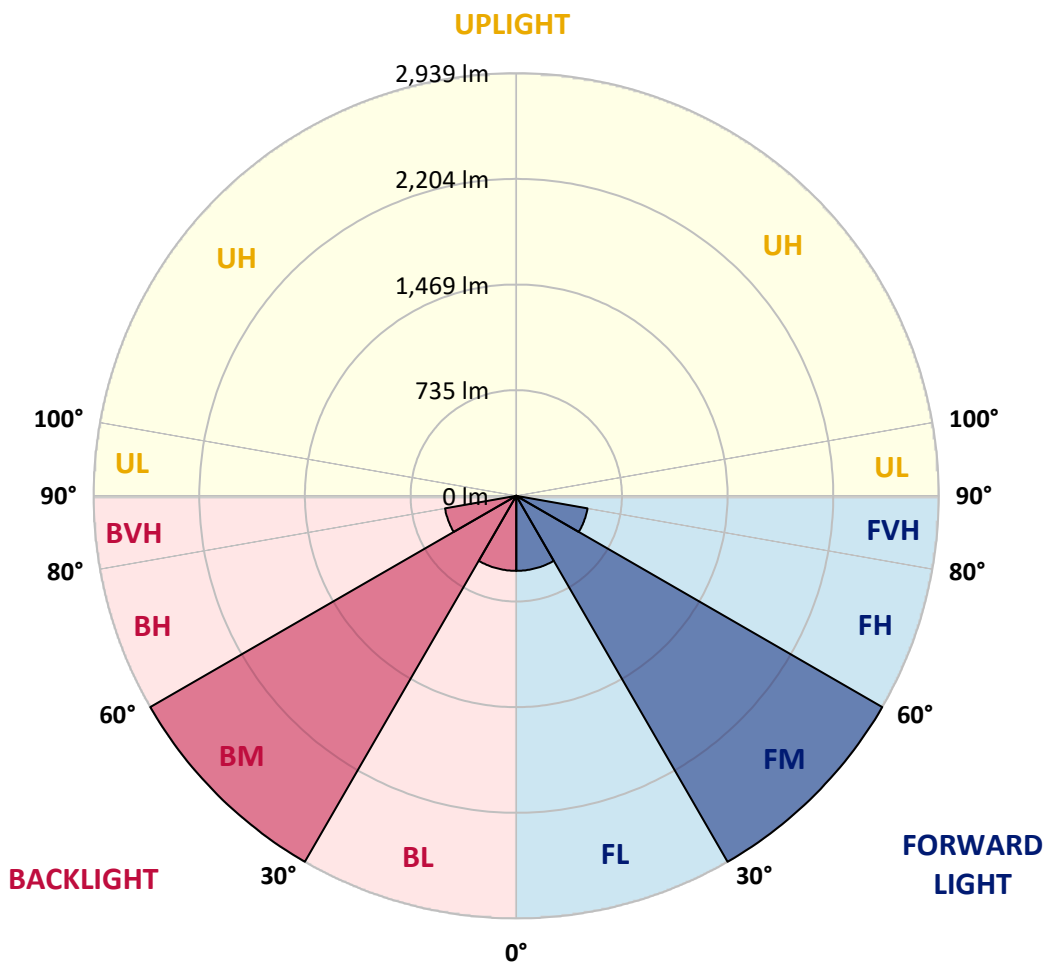


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 521.8  | 6.6       |                         |      |        |
| FM (30°-60°)   | 2938.7 | 37.0      |                         |      |        |
| FH (60°-80°)   | 502.9  | 6.3       |                         |      | G0/660 |
| FVH (80°-90°)  | 4.8    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 521.8  | 6.6       | B2/1000                 |      |        |
| BM (30°-60°)   | 2938.7 | 37.0      | B3/5000                 |      |        |
| BH (60°-80°)   | 502.9  | 6.3       | B2/1000                 |      | G0/660 |
| BVH (80°-90°)  | 4.8    | 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





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1231.1 | 1231.1 | 1231.1 | 1231.1 | 1231.1 | 1231.1 | 1231.1 | 1231.1 | 1231.1 | 1231.1 | 1231.1 |
| 2.5°  | 1227.7 | 1234.3 | 1226.1 | 1222.7 | 1221.1 | 1221.1 | 1216.2 | 1216.2 | 1214.5 | 1216.2 | 1209.5 |
| 5°    | 1207.8 | 1214.5 | 1214.5 | 1212.8 | 1202.9 | 1201.3 | 1196.3 | 1193.0 | 1194.6 | 1188.0 | 1193.0 |
| 7.5°  | 1188.0 | 1193.0 | 1186.4 | 1184.7 | 1181.4 | 1174.8 | 1173.1 | 1158.2 | 1159.9 | 1159.9 | 1163.2 |
| 10°   | 1184.7 | 1183.0 | 1173.1 | 1164.9 | 1154.9 | 1153.3 | 1148.3 | 1145.0 | 1145.0 | 1143.3 | 1148.3 |
| 12.5° | 1184.7 | 1176.5 | 1174.8 | 1156.5 | 1140.1 | 1146.6 | 1133.4 | 1125.2 | 1136.7 | 1140.1 | 1146.6 |
| 15°   | 1183.0 | 1191.4 | 1163.2 | 1154.9 | 1143.3 | 1145.0 | 1133.4 | 1125.2 | 1131.7 | 1135.1 | 1140.1 |
| 17.5° | 1193.0 | 1188.0 | 1179.8 | 1163.2 | 1158.2 | 1151.6 | 1136.7 | 1130.1 | 1130.1 | 1138.4 | 1140.1 |
| 20°   | 1219.4 | 1206.2 | 1189.7 | 1181.4 | 1186.4 | 1178.1 | 1159.9 | 1135.1 | 1141.7 | 1148.3 | 1153.3 |
| 22.5° | 1244.3 | 1234.3 | 1222.7 | 1217.8 | 1245.9 | 1232.7 | 1201.3 | 1173.1 | 1163.2 | 1174.8 | 1183.0 |
| 25°   | 1292.3 | 1292.3 | 1270.8 | 1277.4 | 1308.8 | 1310.4 | 1274.0 | 1224.4 | 1217.8 | 1222.7 | 1226.1 |
| 27.5° | 1389.9 | 1394.9 | 1376.6 | 1383.3 | 1396.5 | 1408.1 | 1376.6 | 1335.3 | 1320.4 | 1318.8 | 1323.7 |
| 30°   | 1495.8 | 1505.7 | 1504.0 | 1532.2 | 1570.2 | 1576.9 | 1530.5 | 1462.7 | 1418.0 | 1409.8 | 1416.3 |
| 32.5° | 1634.7 | 1639.7 | 1636.4 | 1669.5 | 1772.1 | 1820.1 | 1699.3 | 1603.4 | 1543.7 | 1558.6 | 1543.7 |
| 35°   | 1896.2 | 1891.2 | 1854.8 | 1861.5 | 1945.8 | 1980.6 | 1864.7 | 1803.5 | 1775.4 | 1805.2 | 1798.6 |
| 37.5° | 2121.3 | 2103.0 | 2073.2 | 2116.3 | 2203.9 | 2235.4 | 2114.6 | 2007.0 | 1955.7 | 2005.4 | 2026.9 |
| 40°   | 2311.5 | 2265.1 | 2223.8 | 2266.8 | 2384.3 | 2427.3 | 2250.3 | 2162.5 | 2142.7 | 2179.1 | 2225.5 |
| 42.5° | 2472.0 | 2442.2 | 2387.6 | 2391.0 | 2468.7 | 2488.5 | 2346.2 | 2294.9 | 2275.1 | 2333.0 | 2356.1 |
| 45°   | 2586.2 | 2558.1 | 2506.8 | 2503.4 | 2563.0 | 2549.7 | 2422.3 | 2387.6 | 2399.2 | 2437.2 | 2448.8 |
| 47.5° | 2644.1 | 2659.0 | 2629.2 | 2637.5 | 2668.9 | 2637.5 | 2536.5 | 2536.5 | 2510.0 | 2533.3 | 2521.7 |
| 50°   | 2811.2 | 2764.9 | 2802.9 | 2802.9 | 2836.0 | 2839.3 | 2738.4 | 2702.0 | 2630.8 | 2591.1 | 2591.1 |
| 52.5° | 3006.4 | 3009.8 | 3024.7 | 3079.2 | 3135.5 | 3183.5 | 3039.5 | 2884.0 | 2764.9 | 2713.6 | 2706.9 |
| 55°   | 3167.0 | 3200.0 | 3259.6 | 3362.1 | 3524.4 | 3590.6 | 3342.3 | 3064.4 | 2918.8 | 2839.3 | 2822.8 |
| 56°   | 3254.7 | 3223.2 | 3325.8 | 3466.4 | 3678.2 | 3764.2 | 3392.0 | 3100.8 | 2940.2 | 2850.9 | 2849.2 |
| 57.5° | 3170.2 | 3205.0 | 3276.1 | 3497.9 | 3757.7 | 3870.1 | 3410.2 | 3084.2 | 2854.2 | 2763.2 | 2771.5 |
| 60°   | 2503.4 | 2536.5 | 2632.5 | 2880.7 | 3287.7 | 3375.4 | 2885.6 | 2543.2 | 2338.0 | 2207.3 | 2208.9 |
| 62.5° | 1416.3 | 1441.1 | 1515.7 | 1745.7 | 1998.8 | 2083.2 | 1798.6 | 1570.2 | 1427.9 | 1355.1 | 1332.0 |
| 65°   | 521.2  | 511.2  | 522.8  | 640.3  | 795.8  | 867.0  | 747.9  | 632.1  | 557.6  | 531.1  | 521.2  |
| 67.5° | 195.3  | 180.4  | 168.8  | 180.4  | 226.6  | 239.9  | 220.1  | 183.7  | 172.1  | 177.0  | 180.4  |
| 70°   | 120.8  | 114.2  | 91.0   | 86.0   | 84.4   | 82.8   | 87.7   | 92.7   | 105.9  | 124.1  | 127.4  |
| 72.5° | 84.4   | 79.4   | 64.5   | 61.2   | 57.9   | 56.3   | 64.5   | 71.1   | 82.8   | 96.0   | 97.6   |
| 75°   | 33.1   | 34.7   | 33.1   | 36.4   | 38.1   | 39.7   | 46.3   | 51.3   | 56.3   | 56.3   | 54.6   |
| 77.5° | 6.6    | 6.6    | 9.9    | 13.2   | 16.6   | 21.5   | 31.5   | 36.4   | 38.1   | 36.4   | 31.5   |
| 80°   | 0.0    | 0.0    | 3.3    | 6.6    | 13.2   | 18.2   | 28.1   | 31.5   | 34.7   | 31.5   | 24.8   |
| 82.5° | 0.0    | 0.0    | 3.3    | 8.2    | 13.2   | 16.6   | 26.5   | 33.1   | 38.1   | 34.7   | 26.5   |
| 85°   | 0.0    | 0.0    | 3.3    | 6.6    | 9.9    | 11.6   | 11.6   | 8.2    | 8.2    | 5.0    | 3.3    |
| 87.5° | 0.0    | 0.0    | 0.0    | 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)