

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: P527523

Luminaire Tested: **GALN-SA2C-740-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527523  
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-SA2C-740-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1050mA 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: 7375 lumens  
Efficiency: N/A  
Efficacy: 68.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

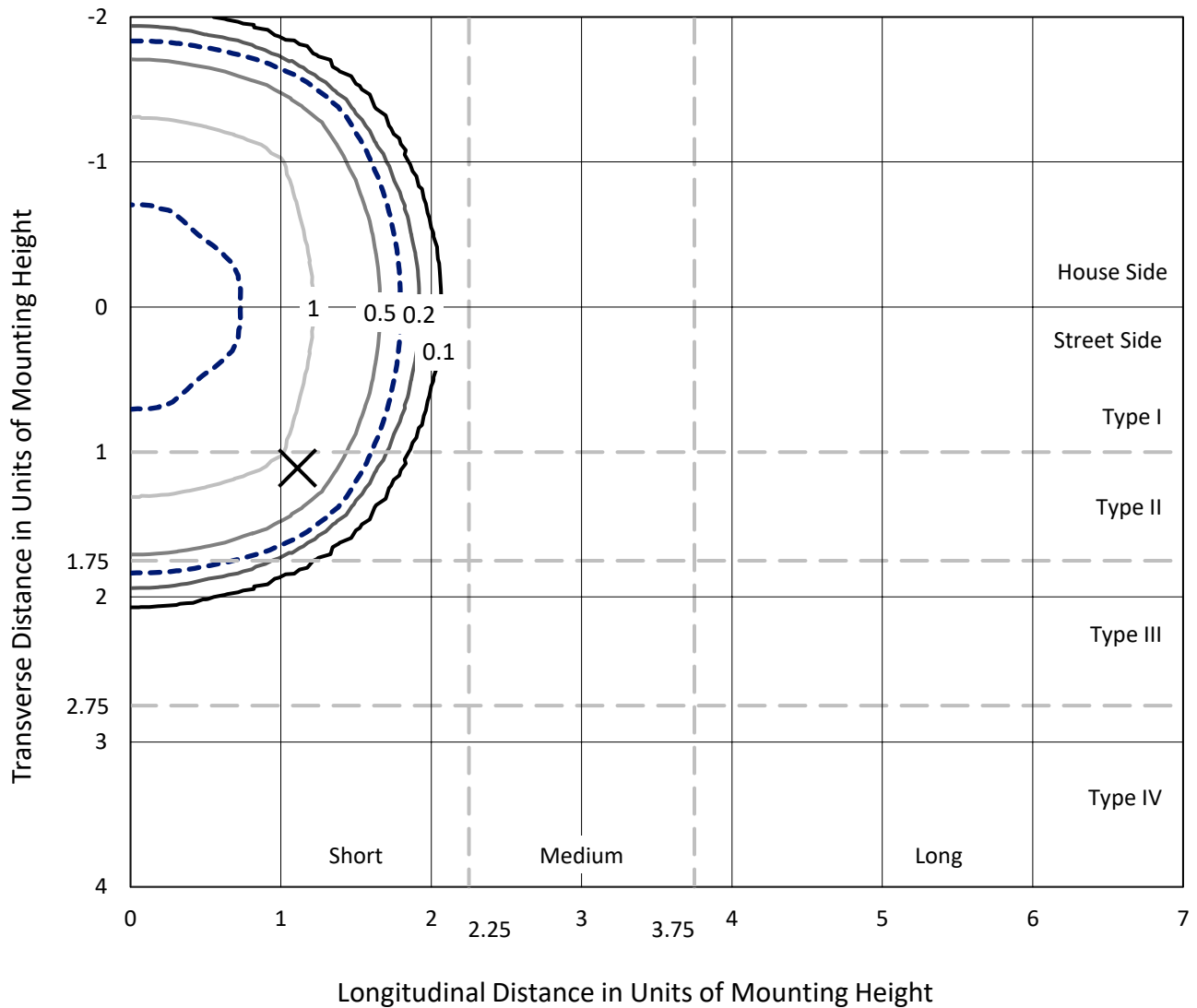
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

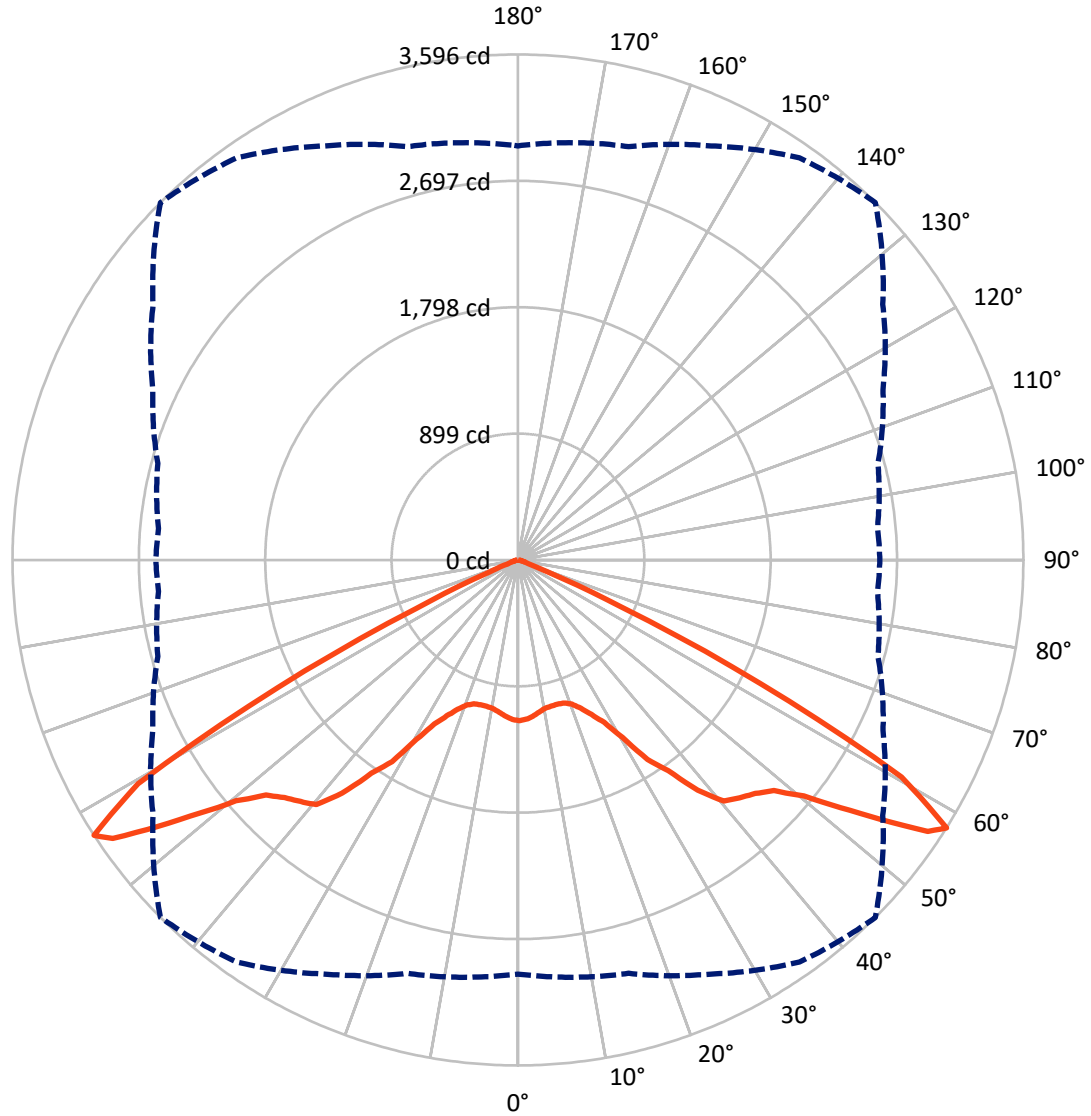
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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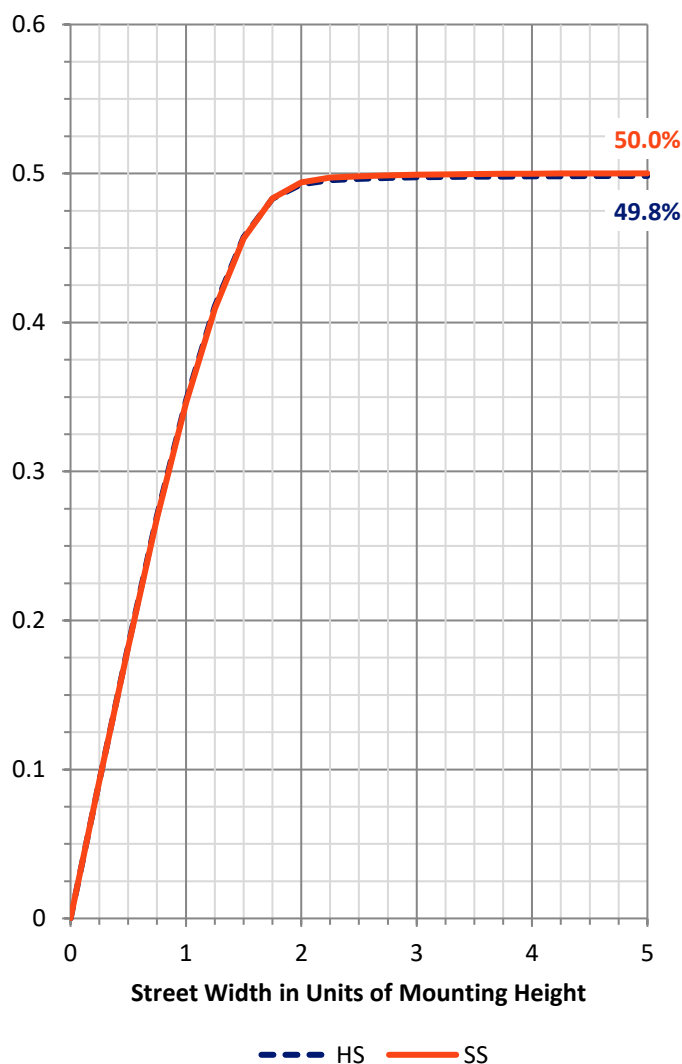
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3687.5   | 0.0    | 3687.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3687.5   | 0.0    | 3687.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 7375.0   | 0.0    | 7375.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 105.1  | 1.4       |
| 10°-20°   | 303.9  | 4.1       |
| 20°-30°   | 560.9  | 7.6       |
| 30°-40°   | 1103.0 | 15.0      |
| 40°-50°   | 1796.5 | 24.4      |
| 50°-60°   | 2562.1 | 34.7      |
| 60°-70°   | 887.0  | 12.0      |
| 70°-80°   | 47.6   | 0.6       |
| 80°-90°   | 8.9    | 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°    | 7375.0 | 100.0     |
| 0°-180°   | 7375.0 | 100.0     |

**Coefficient of Utilization**

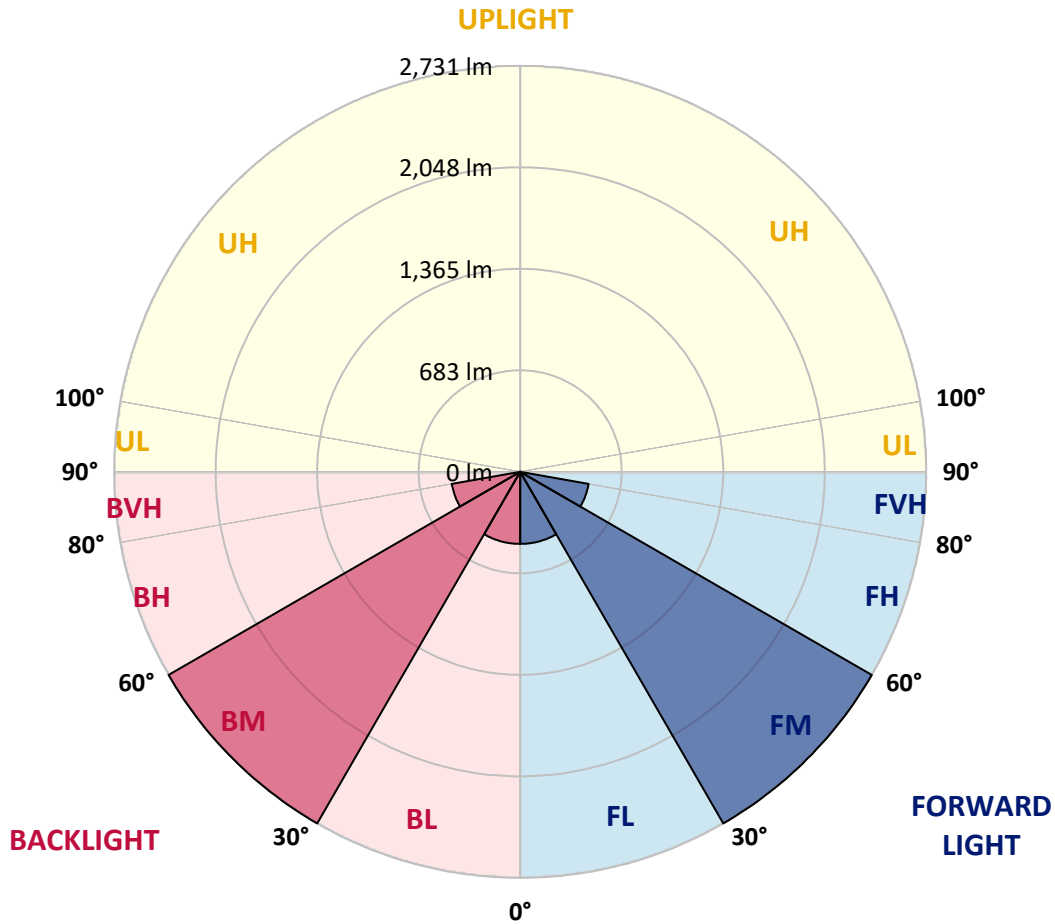


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 484.9  | 6.6       |                         |      |        |
| FM (30°-60°)   | 2730.8 | 37.0      |                         |      |        |
| FH (60°-80°)   | 467.3  | 6.3       |                         |      | G0/660 |
| FVH (80°-90°)  | 4.5    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 484.9  | 6.6       | B1/500                  |      |        |
| BM (30°-60°)   | 2730.8 | 37.0      | B3/5000                 |      |        |
| BH (60°-80°)   | 467.3  | 6.3       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 4.5    | 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°    | 1143.9 | 1143.9 | 1143.9 | 1143.9 | 1143.9 | 1143.9 | 1143.9 | 1143.9 | 1143.9 | 1143.9 | 1143.9 |
| 2.5°  | 1140.9 | 1147.0 | 1139.3 | 1136.3 | 1134.7 | 1134.7 | 1130.1 | 1130.1 | 1128.6 | 1130.1 | 1124.0 |
| 5°    | 1122.4 | 1128.6 | 1128.6 | 1127.0 | 1117.8 | 1116.3 | 1111.7 | 1108.6 | 1110.1 | 1104.0 | 1108.6 |
| 7.5°  | 1104.0 | 1108.6 | 1102.4 | 1100.9 | 1097.8 | 1091.7 | 1090.1 | 1076.3 | 1077.8 | 1077.8 | 1080.9 |
| 10°   | 1100.9 | 1099.4 | 1090.1 | 1082.4 | 1073.2 | 1071.7 | 1067.1 | 1064.0 | 1064.0 | 1062.4 | 1067.1 |
| 12.5° | 1100.9 | 1093.2 | 1091.7 | 1074.7 | 1059.4 | 1065.5 | 1053.2 | 1045.5 | 1056.3 | 1059.4 | 1065.5 |
| 15°   | 1099.4 | 1107.0 | 1080.9 | 1073.2 | 1062.4 | 1064.0 | 1053.2 | 1045.5 | 1051.7 | 1054.8 | 1059.4 |
| 17.5° | 1108.6 | 1104.0 | 1096.3 | 1080.9 | 1076.3 | 1070.1 | 1056.3 | 1050.1 | 1050.1 | 1057.8 | 1059.4 |
| 20°   | 1133.2 | 1120.9 | 1105.5 | 1097.8 | 1102.4 | 1094.7 | 1077.8 | 1054.8 | 1060.9 | 1067.1 | 1071.7 |
| 22.5° | 1156.2 | 1147.0 | 1136.3 | 1131.6 | 1157.8 | 1145.5 | 1116.3 | 1090.1 | 1080.9 | 1091.7 | 1099.4 |
| 25°   | 1200.8 | 1200.8 | 1180.8 | 1187.0 | 1216.2 | 1217.7 | 1183.9 | 1137.8 | 1131.6 | 1136.3 | 1139.3 |
| 27.5° | 1291.5 | 1296.2 | 1279.2 | 1285.4 | 1297.7 | 1308.5 | 1279.2 | 1240.8 | 1227.0 | 1225.4 | 1230.0 |
| 30°   | 1389.9 | 1399.2 | 1397.6 | 1423.8 | 1459.1 | 1465.3 | 1422.2 | 1359.2 | 1317.7 | 1310.0 | 1316.1 |
| 32.5° | 1519.1 | 1523.7 | 1520.6 | 1551.4 | 1646.7 | 1691.3 | 1579.1 | 1489.9 | 1434.5 | 1448.4 | 1434.5 |
| 35°   | 1762.0 | 1757.4 | 1723.6 | 1729.7 | 1808.2 | 1840.5 | 1732.8 | 1675.9 | 1649.8 | 1677.5 | 1671.3 |
| 37.5° | 1971.1 | 1954.2 | 1926.6 | 1966.5 | 2048.0 | 2077.2 | 1965.0 | 1865.1 | 1817.4 | 1863.5 | 1883.5 |
| 40°   | 2148.0 | 2104.9 | 2066.5 | 2106.4 | 2215.6 | 2255.6 | 2091.1 | 2009.6 | 1991.1 | 2025.0 | 2068.0 |
| 42.5° | 2297.1 | 2269.4 | 2218.7 | 2221.8 | 2294.0 | 2312.5 | 2180.3 | 2132.6 | 2114.1 | 2168.0 | 2189.5 |
| 45°   | 2403.2 | 2377.1 | 2329.4 | 2326.3 | 2381.7 | 2369.4 | 2251.0 | 2218.7 | 2229.5 | 2264.8 | 2275.6 |
| 47.5° | 2457.0 | 2470.8 | 2443.2 | 2450.9 | 2480.1 | 2450.9 | 2357.1 | 2357.1 | 2332.5 | 2354.0 | 2343.2 |
| 50°   | 2612.3 | 2569.3 | 2604.6 | 2604.6 | 2635.4 | 2638.4 | 2544.7 | 2510.8 | 2444.7 | 2407.8 | 2407.8 |
| 52.5° | 2793.7 | 2796.8 | 2810.6 | 2861.4 | 2913.7 | 2958.3 | 2824.5 | 2680.0 | 2569.3 | 2521.6 | 2515.4 |
| 55°   | 2942.9 | 2973.6 | 3029.0 | 3124.3 | 3275.0 | 3336.5 | 3105.9 | 2847.5 | 2712.2 | 2638.4 | 2623.1 |
| 56°   | 3024.4 | 2995.2 | 3090.5 | 3221.2 | 3418.0 | 3497.9 | 3152.0 | 2881.4 | 2732.2 | 2649.2 | 2647.7 |
| 57.5° | 2946.0 | 2978.2 | 3044.4 | 3250.4 | 3491.8 | 3596.3 | 3168.9 | 2866.0 | 2652.3 | 2567.7 | 2575.4 |
| 60°   | 2326.3 | 2357.1 | 2446.2 | 2676.9 | 3055.1 | 3136.6 | 2681.5 | 2363.2 | 2172.6 | 2051.1 | 2052.6 |
| 62.5° | 1316.1 | 1339.2 | 1408.4 | 1622.1 | 1857.4 | 1935.8 | 1671.3 | 1459.1 | 1326.9 | 1259.3 | 1237.7 |
| 65°   | 484.3  | 475.1  | 485.9  | 595.0  | 739.6  | 805.7  | 695.0  | 587.3  | 518.2  | 493.6  | 484.3  |
| 67.5° | 181.4  | 167.6  | 156.8  | 167.6  | 210.6  | 222.9  | 204.5  | 170.7  | 159.9  | 164.5  | 167.6  |
| 70°   | 112.2  | 106.1  | 84.6   | 80.0   | 78.4   | 76.9   | 81.5   | 86.1   | 98.4   | 115.3  | 118.4  |
| 72.5° | 78.4   | 73.8   | 60.0   | 56.9   | 53.8   | 52.3   | 60.0   | 66.1   | 76.9   | 89.2   | 90.7   |
| 75°   | 30.8   | 32.3   | 30.8   | 33.8   | 35.4   | 36.9   | 43.1   | 47.7   | 52.3   | 52.3   | 50.7   |
| 77.5° | 6.2    | 6.2    | 9.2    | 12.3   | 15.4   | 20.0   | 29.2   | 33.8   | 35.4   | 33.8   | 29.2   |
| 80°   | 0.0    | 0.0    | 3.1    | 6.2    | 12.3   | 16.9   | 26.1   | 29.2   | 32.3   | 29.2   | 23.1   |
| 82.5° | 0.0    | 0.0    | 3.1    | 7.7    | 12.3   | 15.4   | 24.6   | 30.8   | 35.4   | 32.3   | 24.6   |
| 85°   | 0.0    | 0.0    | 3.1    | 6.2    | 9.2    | 10.8   | 10.8   | 7.7    | 7.7    | 4.6    | 3.1    |
| 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)