

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: P450699

Luminaire Tested: **GALN-SA1C-730-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450699  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-730-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6467 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

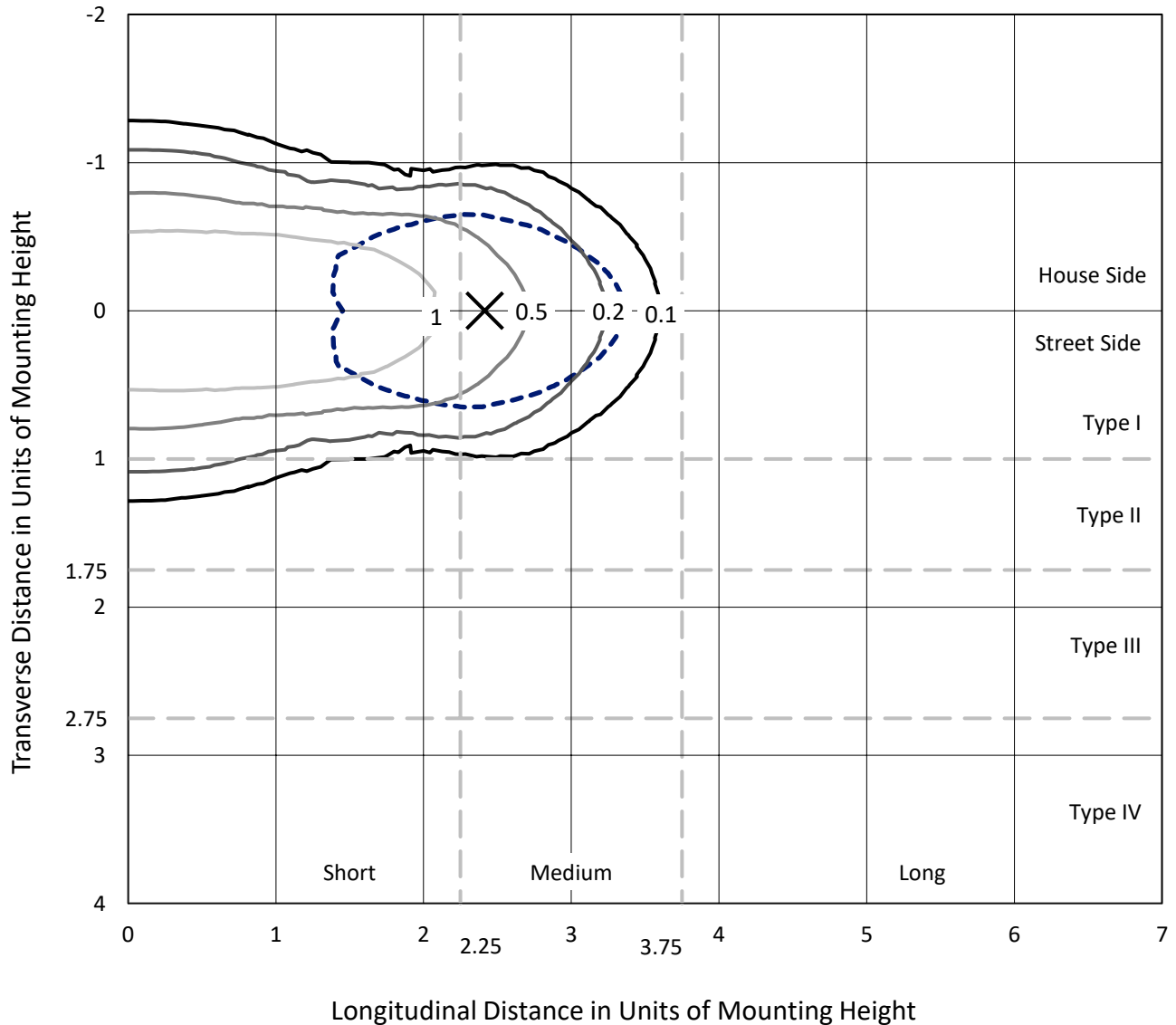
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

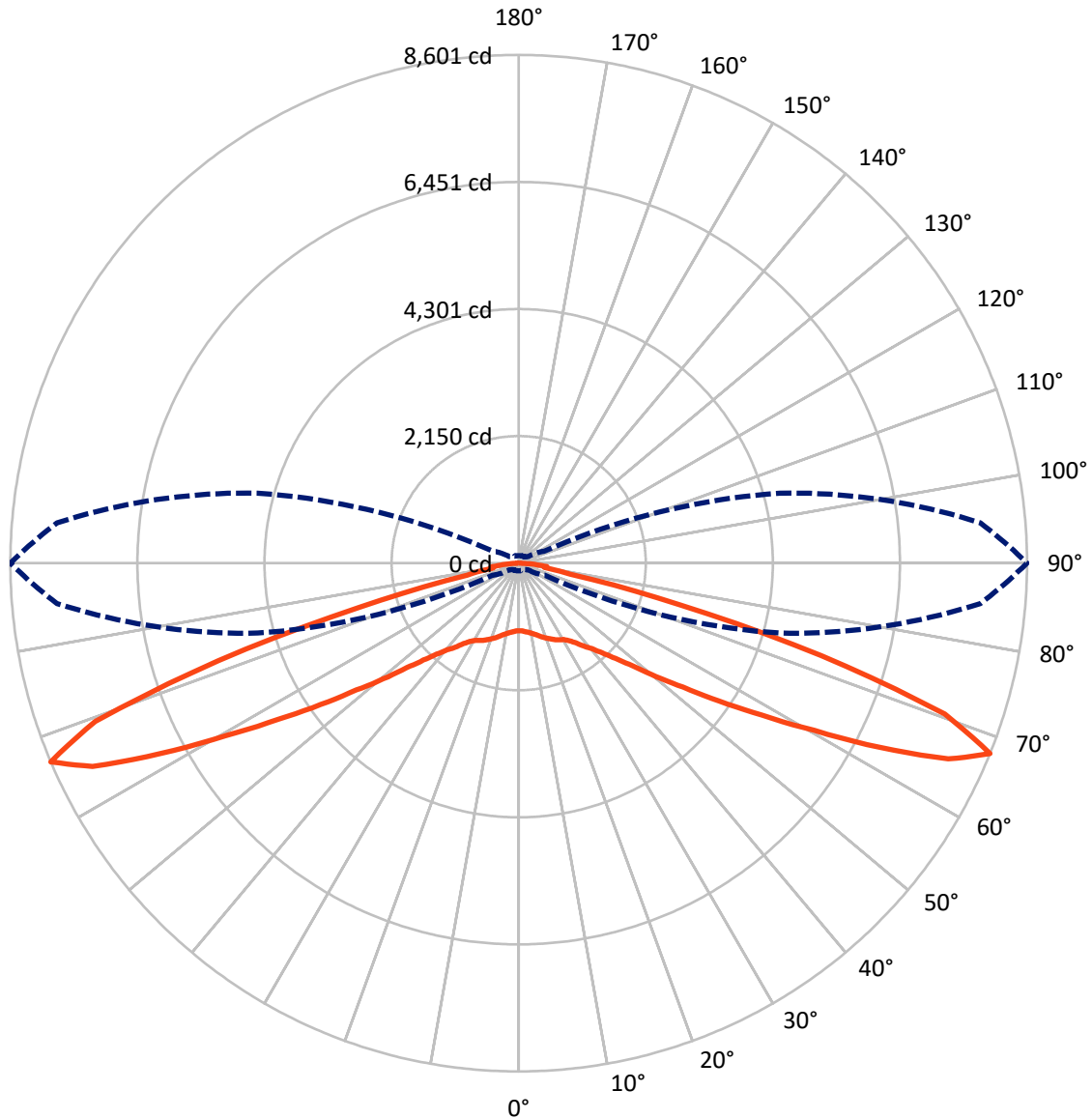
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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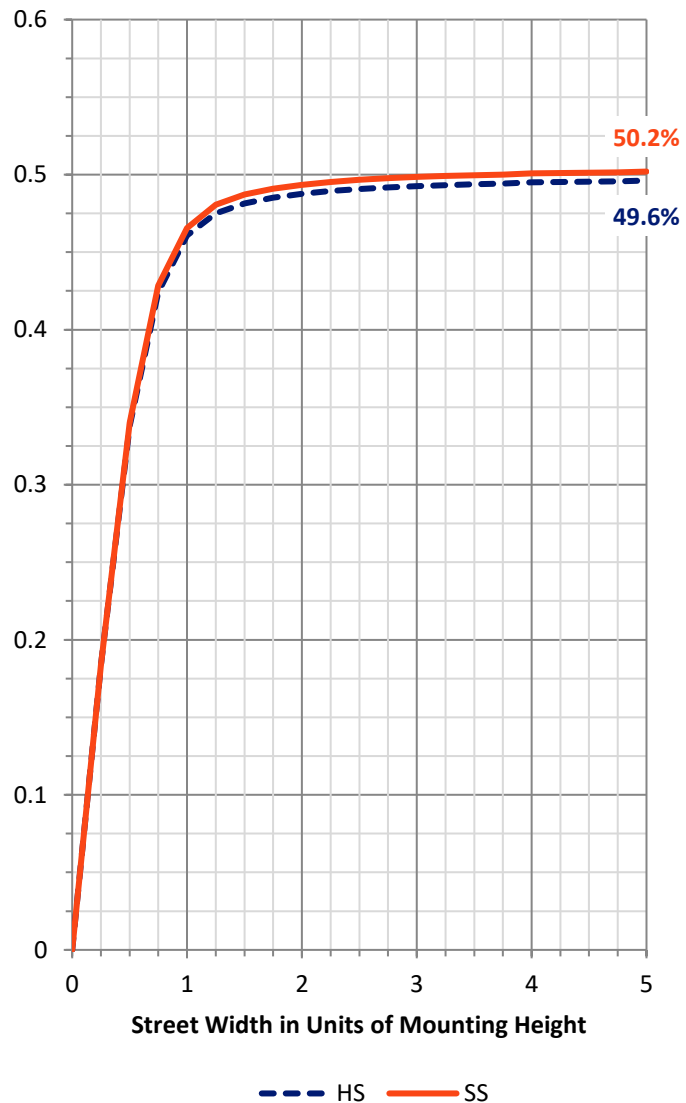
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3233.5   | 0.0    | 3233.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3233.5   | 0.0    | 3233.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6467.0   | 0.0    | 6467.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 114.1  | 1.8       |
| 10°-20°   | 365.2  | 5.6       |
| 20°-30°   | 611.2  | 9.5       |
| 30°-40°   | 828.1  | 12.8      |
| 40°-50°   | 1048.9 | 16.2      |
| 50°-60°   | 1310.3 | 20.3      |
| 60°-70°   | 1540.2 | 23.8      |
| 70°-80°   | 589.2  | 9.1       |
| 80°-90°   | 59.7   | 0.9       |
| 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°    | 6467.0 | 100.0     |
| 0°-180°   | 6467.0 | 100.0     |



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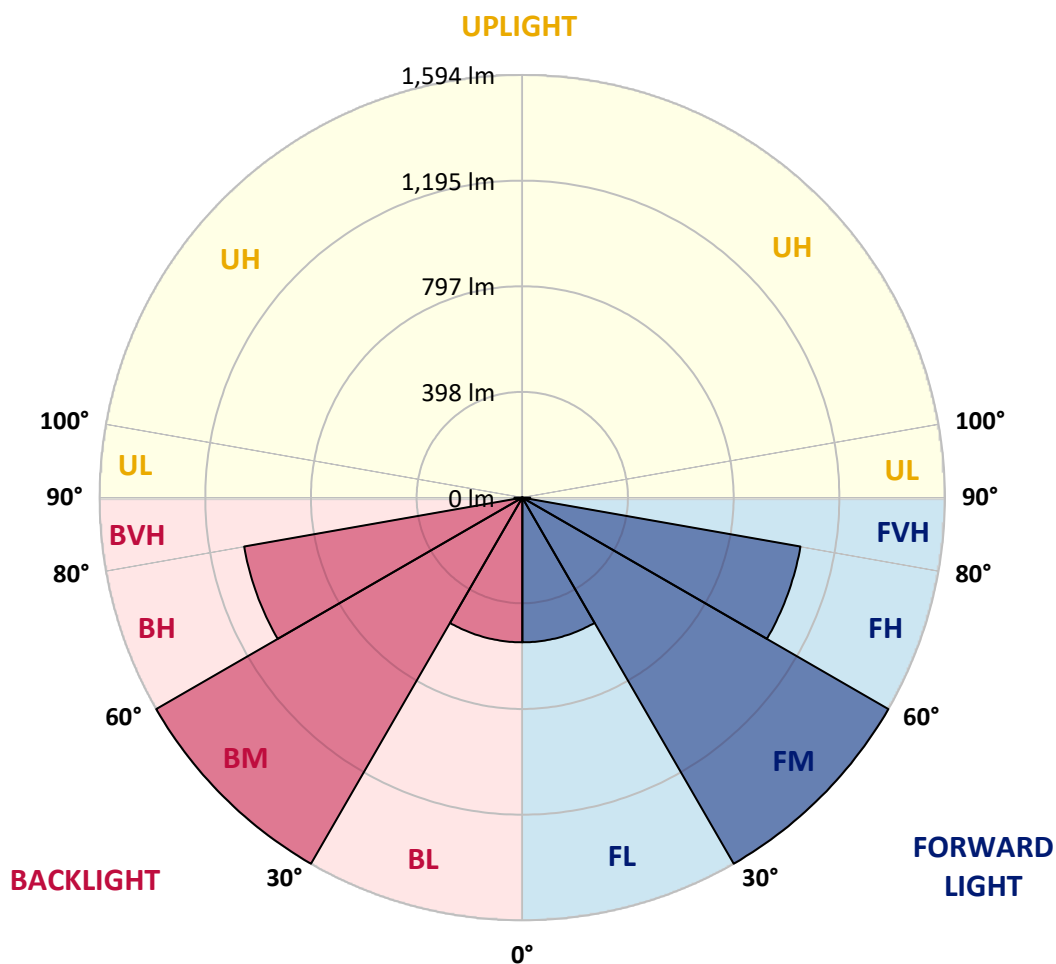
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 545.3  | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 1593.6 | 24.6      |                         |      |         |
| FH   | (60°-80°)   | 1064.7 | 16.5      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 29.8   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 545.3  | 8.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1593.6 | 24.6      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1064.7 | 16.5      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 29.8   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1144.9 | 1144.9 | 1144.9 | 1144.9 | 1144.9 | 1144.9 | 1144.9 | 1144.9 | 1144.9 | 1144.9 | 1144.9 |
| 2.5°  | 1159.5 | 1158.8 | 1159.2 | 1158.8 | 1159.9 | 1159.2 | 1154.9 | 1151.3 | 1148.4 | 1148.8 | 1147.7 |
| 5°    | 1184.3 | 1184.6 | 1185.0 | 1183.2 | 1185.7 | 1184.3 | 1177.4 | 1171.7 | 1166.0 | 1163.8 | 1163.1 |
| 7.5°  | 1204.7 | 1206.5 | 1207.5 | 1209.3 | 1213.6 | 1213.6 | 1210.0 | 1201.8 | 1189.3 | 1182.1 | 1181.7 |
| 10°   | 1225.1 | 1226.5 | 1229.7 | 1235.5 | 1242.6 | 1249.4 | 1248.0 | 1236.9 | 1220.8 | 1208.6 | 1205.7 |
| 12.5° | 1232.2 | 1234.0 | 1244.8 | 1261.2 | 1277.4 | 1290.6 | 1290.6 | 1281.7 | 1260.9 | 1242.3 | 1236.9 |
| 15°   | 1207.2 | 1210.4 | 1229.7 | 1264.8 | 1307.1 | 1336.1 | 1342.5 | 1330.0 | 1307.8 | 1279.1 | 1272.7 |
| 17.5° | 1157.4 | 1165.3 | 1193.6 | 1245.5 | 1315.7 | 1375.8 | 1394.5 | 1388.4 | 1359.7 | 1323.2 | 1315.7 |
| 20°   | 1104.0 | 1112.6 | 1142.7 | 1211.5 | 1308.5 | 1399.1 | 1453.2 | 1454.6 | 1419.2 | 1366.2 | 1355.1 |
| 22.5° | 1045.3 | 1051.8 | 1090.4 | 1171.0 | 1287.0 | 1404.5 | 1503.7 | 1528.4 | 1480.4 | 1409.1 | 1393.4 |
| 25°   | 979.4  | 986.6  | 1027.0 | 1114.1 | 1246.6 | 1398.4 | 1549.9 | 1604.3 | 1544.5 | 1455.0 | 1434.9 |
| 27.5° | 916.4  | 919.3  | 962.6  | 1051.0 | 1193.2 | 1382.6 | 1583.9 | 1674.1 | 1615.4 | 1492.9 | 1467.5 |
| 30°   | 855.9  | 862.7  | 901.0  | 988.4  | 1132.0 | 1351.8 | 1613.3 | 1753.6 | 1691.7 | 1532.7 | 1500.1 |
| 32.5° | 791.8  | 800.0  | 841.5  | 930.0  | 1070.7 | 1305.6 | 1631.2 | 1840.7 | 1798.0 | 1597.1 | 1562.4 |
| 35°   | 730.2  | 735.5  | 777.4  | 863.4  | 1010.9 | 1251.9 | 1634.4 | 1938.8 | 1935.2 | 1694.9 | 1648.7 |
| 37.5° | 667.1  | 675.0  | 717.3  | 799.6  | 947.5  | 1195.0 | 1618.3 | 2043.0 | 2100.6 | 1830.6 | 1780.9 |
| 40°   | 606.6  | 613.4  | 655.0  | 738.1  | 875.6  | 1125.5 | 1580.0 | 2138.2 | 2293.7 | 1970.3 | 1899.7 |
| 42.5° | 540.7  | 542.5  | 588.0  | 672.5  | 805.0  | 1044.9 | 1524.8 | 2223.1 | 2508.9 | 2157.6 | 2069.8 |
| 45°   | 465.9  | 470.5  | 512.8  | 595.9  | 724.1  | 954.7  | 1450.0 | 2293.3 | 2781.8 | 2417.2 | 2297.6 |
| 47.5° | 391.1  | 395.0  | 433.7  | 515.7  | 635.6  | 851.2  | 1334.7 | 2354.9 | 3061.8 | 2747.0 | 2590.2 |
| 50°   | 318.0  | 320.1  | 351.7  | 424.4  | 536.1  | 742.4  | 1191.8 | 2374.6 | 3378.4 | 3214.0 | 3013.8 |
| 52.5° | 251.4  | 254.6  | 278.6  | 335.5  | 429.7  | 613.8  | 1037.4 | 2325.9 | 3747.9 | 3767.6 | 3485.4 |
| 55°   | 203.8  | 204.8  | 222.7  | 264.6  | 335.9  | 479.1  | 851.2  | 2190.2 | 4145.4 | 4477.0 | 4117.1 |
| 57.5° | 175.5  | 176.2  | 186.2  | 209.5  | 258.6  | 361.3  | 660.3  | 1933.4 | 4502.4 | 5308.2 | 4845.5 |
| 60°   | 159.4  | 159.7  | 165.4  | 179.1  | 204.8  | 277.2  | 473.1  | 1571.0 | 4854.8 | 6233.2 | 5750.8 |
| 62.5° | 149.3  | 149.3  | 153.3  | 160.8  | 173.3  | 212.7  | 342.7  | 1133.4 | 5096.2 | 7171.8 | 6866.7 |
| 65°   | 139.7  | 139.7  | 142.5  | 147.9  | 154.7  | 174.0  | 253.2  | 739.1  | 5090.1 | 7855.4 | 7989.0 |
| 67.5° | 128.6  | 128.6  | 130.7  | 136.1  | 140.0  | 149.7  | 195.5  | 484.2  | 4572.3 | 7840.3 | 8601.3 |
| 70°   | 115.3  | 115.3  | 118.2  | 122.8  | 126.1  | 132.1  | 154.3  | 331.2  | 3359.0 | 6694.4 | 7649.5 |
| 72.5° | 102.1  | 102.4  | 104.2  | 108.9  | 111.4  | 115.0  | 128.2  | 232.1  | 2060.5 | 4558.3 | 5348.7 |
| 75°   | 87.4   | 88.1   | 89.9   | 94.5   | 96.7   | 98.1   | 108.1  | 165.4  | 1042.4 | 2457.7 | 2798.2 |
| 77.5° | 70.5   | 72.0   | 73.1   | 78.1   | 79.5   | 81.6   | 89.2   | 119.6  | 457.7  | 883.1  | 891.0  |
| 80°   | 51.6   | 53.4   | 56.6   | 61.2   | 62.3   | 63.7   | 68.0   | 84.9   | 207.3  | 403.2  | 438.0  |
| 82.5° | 38.0   | 40.5   | 36.5   | 42.6   | 42.6   | 40.8   | 48.0   | 56.9   | 95.3   | 399.3  | 477.7  |
| 85°   | 20.8   | 21.1   | 19.0   | 21.8   | 23.3   | 22.9   | 25.4   | 27.9   | 46.2   | 266.4  | 274.7  |
| 87.5° | 5.0    | 5.4    | 5.7    | 6.8    | 8.2    | 8.2    | 9.0    | 7.9    | 15.0   | 86.3   | 49.4   |
| 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)