

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: P528069

Luminaire Tested: **GALN-SA3A-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528069  
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-SA3A-827-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 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: 5235 lumens  
Efficiency: N/A  
Efficacy: 56.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0

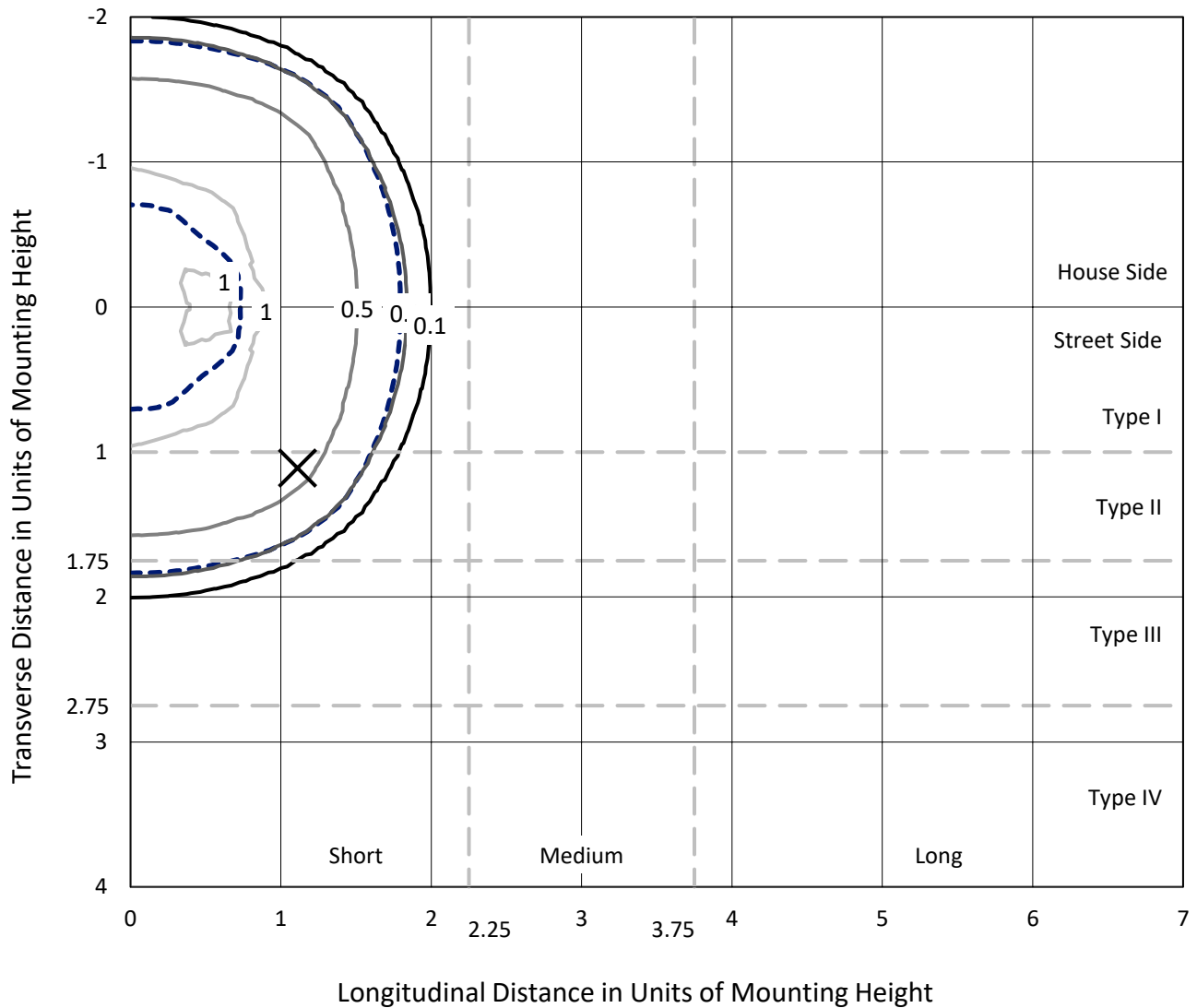
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

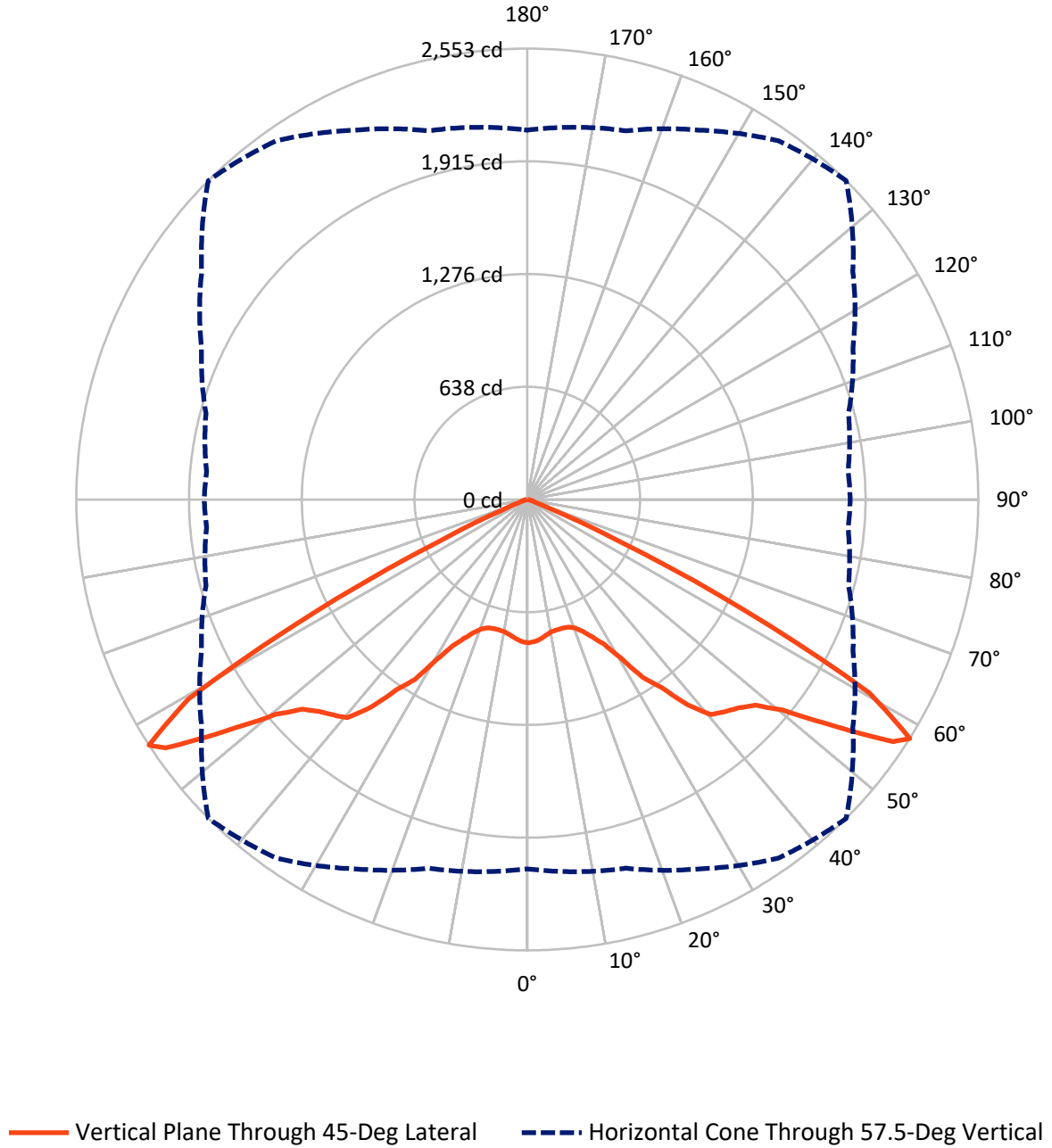
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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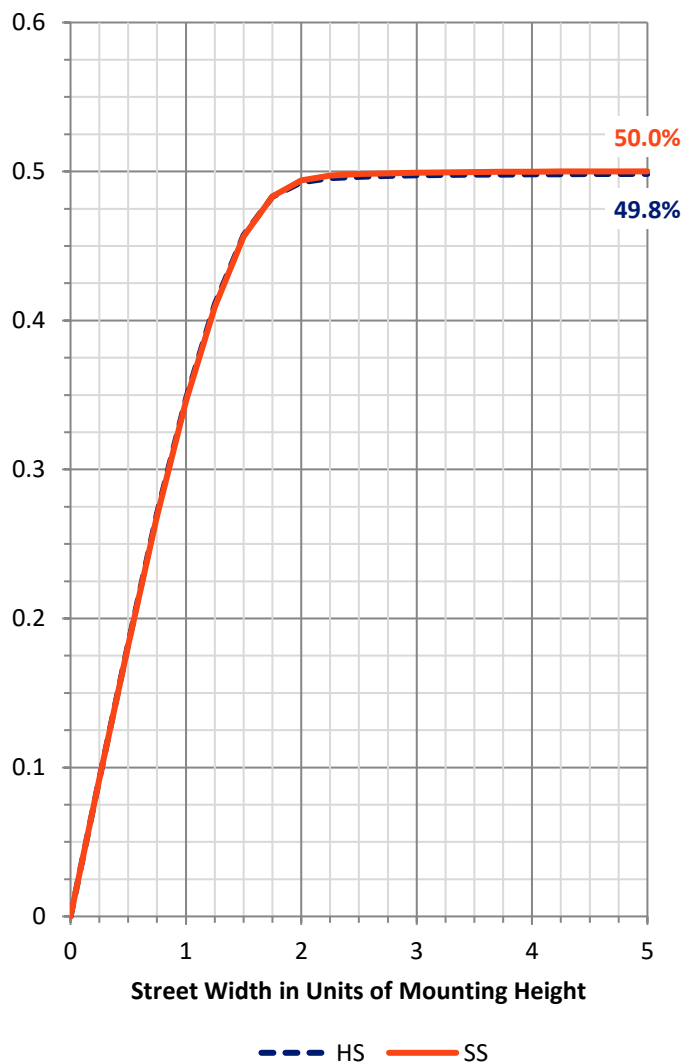
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2617.5   | 0.0    | 2617.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2617.5   | 0.0    | 2617.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5235.0   | 0.0    | 5235.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 74.6   | 1.4       |
| 10°-20°   | 215.7  | 4.1       |
| 20°-30°   | 398.1  | 7.6       |
| 30°-40°   | 783.0  | 15.0      |
| 40°-50°   | 1275.2 | 24.4      |
| 50°-60°   | 1818.6 | 34.7      |
| 60°-70°   | 629.7  | 12.0      |
| 70°-80°   | 33.8   | 0.6       |
| 80°-90°   | 6.3    | 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°    | 5235.0 | 100.0     |
| 0°-180°   | 5235.0 | 100.0     |

**Coefficient of Utilization**



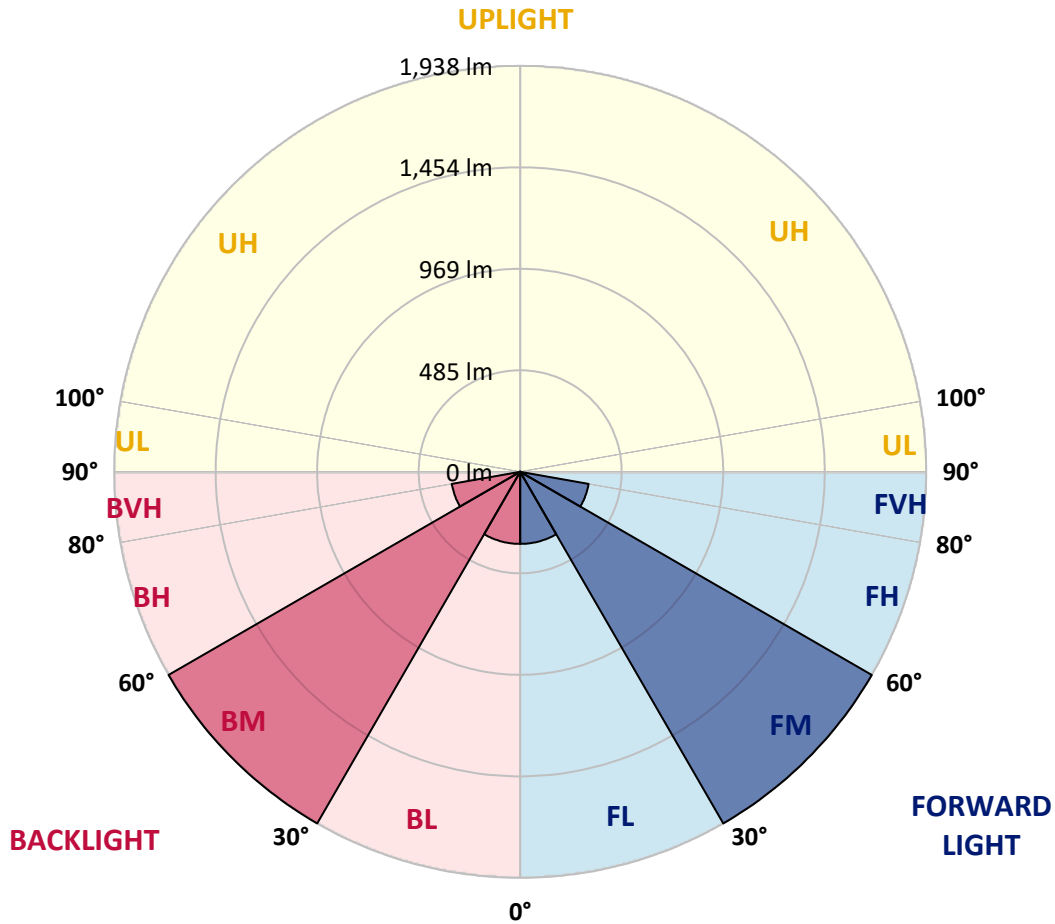
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 344.2  | 6.6       |                         |      |        |
| FM (30°-60°)   | 1938.4 | 37.0      |                         |      |        |
| FH (60°-80°)   | 331.7  | 6.3       |                         |      | G0/660 |
| FVH (80°-90°)  | 3.2    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 344.2  | 6.6       | B1/500                  |      |        |
| BM (30°-60°)   | 1938.4 | 37.0      | B2/2500                 |      |        |
| BH (60°-80°)   | 331.7  | 6.3       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 3.2    | 0.1       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 812.0  | 812.0  | 812.0  | 812.0  | 812.0  | 812.0  | 812.0  | 812.0  | 812.0  | 812.0  | 812.0  |
| 2.5°  | 809.8  | 814.2  | 808.7  | 806.5  | 805.5  | 805.5  | 802.2  | 802.2  | 801.1  | 802.2  | 797.8  |
| 5°    | 796.7  | 801.1  | 801.1  | 800.0  | 793.4  | 792.4  | 789.1  | 786.9  | 788.0  | 783.6  | 786.9  |
| 7.5°  | 783.6  | 786.9  | 782.5  | 781.4  | 779.3  | 774.9  | 773.8  | 764.0  | 765.1  | 765.1  | 767.3  |
| 10°   | 781.4  | 780.4  | 773.8  | 768.3  | 761.8  | 760.7  | 757.4  | 755.3  | 755.3  | 754.2  | 757.4  |
| 12.5° | 781.4  | 776.0  | 774.9  | 762.9  | 752.0  | 756.3  | 747.6  | 742.2  | 749.8  | 752.0  | 756.3  |
| 15°   | 780.4  | 785.8  | 767.3  | 761.8  | 754.2  | 755.3  | 747.6  | 742.2  | 746.5  | 748.7  | 752.0  |
| 17.5° | 786.9  | 783.6  | 778.2  | 767.3  | 764.0  | 759.6  | 749.8  | 745.4  | 745.4  | 750.9  | 752.0  |
| 20°   | 804.4  | 795.6  | 784.7  | 779.3  | 782.5  | 777.1  | 765.1  | 748.7  | 753.1  | 757.4  | 760.7  |
| 22.5° | 820.7  | 814.2  | 806.5  | 803.3  | 821.8  | 813.1  | 792.4  | 773.8  | 767.3  | 774.9  | 780.4  |
| 25°   | 852.4  | 852.4  | 838.2  | 842.6  | 863.3  | 864.4  | 840.4  | 807.6  | 803.3  | 806.5  | 808.7  |
| 27.5° | 916.8  | 920.1  | 908.0  | 912.4  | 921.1  | 928.8  | 908.0  | 880.8  | 870.9  | 869.8  | 873.1  |
| 30°   | 986.6  | 993.2  | 992.1  | 1010.6 | 1035.7 | 1040.1 | 1009.5 | 964.8  | 935.3  | 929.9  | 934.2  |
| 32.5° | 1078.3 | 1081.6 | 1079.4 | 1101.2 | 1168.9 | 1200.5 | 1120.9 | 1057.6 | 1018.3 | 1028.1 | 1018.3 |
| 35°   | 1250.7 | 1247.5 | 1223.5 | 1227.8 | 1283.5 | 1306.4 | 1230.0 | 1189.6 | 1171.1 | 1190.7 | 1186.4 |
| 37.5° | 1399.2 | 1387.2 | 1367.5 | 1395.9 | 1453.7 | 1474.5 | 1394.8 | 1323.9 | 1290.0 | 1322.8 | 1337.0 |
| 40°   | 1524.7 | 1494.1 | 1466.8 | 1495.2 | 1572.7 | 1601.1 | 1484.3 | 1426.5 | 1413.4 | 1437.4 | 1467.9 |
| 42.5° | 1630.6 | 1610.9 | 1574.9 | 1577.1 | 1628.4 | 1641.5 | 1547.6 | 1513.8 | 1500.7 | 1538.9 | 1554.2 |
| 45°   | 1705.9 | 1687.3 | 1653.5 | 1651.3 | 1690.6 | 1681.9 | 1597.8 | 1574.9 | 1582.5 | 1607.6 | 1615.3 |
| 47.5° | 1744.1 | 1753.9 | 1734.2 | 1739.7 | 1760.4 | 1739.7 | 1673.1 | 1673.1 | 1655.7 | 1670.9 | 1663.3 |
| 50°   | 1854.3 | 1823.7 | 1848.8 | 1848.8 | 1870.7 | 1872.8 | 1806.3 | 1782.3 | 1735.3 | 1709.1 | 1709.1 |
| 52.5° | 1983.1 | 1985.3 | 1995.1 | 2031.1 | 2068.2 | 2099.9 | 2004.9 | 1902.3 | 1823.7 | 1789.9 | 1785.5 |
| 55°   | 2088.9 | 2110.8 | 2150.1 | 2217.7 | 2324.7 | 2368.3 | 2204.6 | 2021.3 | 1925.2 | 1872.8 | 1861.9 |
| 56°   | 2146.8 | 2126.1 | 2193.7 | 2286.5 | 2426.2 | 2482.9 | 2237.4 | 2045.3 | 1939.4 | 1880.5 | 1879.4 |
| 57.5° | 2091.1 | 2114.0 | 2161.0 | 2307.2 | 2478.6 | 2552.8 | 2249.4 | 2034.4 | 1882.7 | 1822.6 | 1828.1 |
| 60°   | 1651.3 | 1673.1 | 1736.4 | 1900.1 | 2168.6 | 2226.5 | 1903.4 | 1677.5 | 1542.2 | 1455.9 | 1457.0 |
| 62.5° | 934.2  | 950.6  | 999.7  | 1151.4 | 1318.4 | 1374.1 | 1186.4 | 1035.7 | 941.9  | 893.9  | 878.6  |
| 65°   | 343.8  | 337.2  | 344.9  | 422.4  | 525.0  | 571.9  | 493.3  | 416.9  | 367.8  | 350.3  | 343.8  |
| 67.5° | 128.8  | 119.0  | 111.3  | 119.0  | 149.5  | 158.3  | 145.2  | 121.1  | 113.5  | 116.8  | 119.0  |
| 70°   | 79.7   | 75.3   | 60.0   | 56.8   | 55.7   | 54.6   | 57.8   | 61.1   | 69.8   | 81.9   | 84.0   |
| 72.5° | 55.7   | 52.4   | 42.6   | 40.4   | 38.2   | 37.1   | 42.6   | 46.9   | 54.6   | 63.3   | 64.4   |
| 75°   | 21.8   | 22.9   | 21.8   | 24.0   | 25.1   | 26.2   | 30.6   | 33.8   | 37.1   | 37.1   | 36.0   |
| 77.5° | 4.4    | 4.4    | 6.5    | 8.7    | 10.9   | 14.2   | 20.7   | 24.0   | 25.1   | 24.0   | 20.7   |
| 80°   | 0.0    | 0.0    | 2.2    | 4.4    | 8.7    | 12.0   | 18.6   | 20.7   | 22.9   | 20.7   | 16.4   |
| 82.5° | 0.0    | 0.0    | 2.2    | 5.5    | 8.7    | 10.9   | 17.5   | 21.8   | 25.1   | 22.9   | 17.5   |
| 85°   | 0.0    | 0.0    | 2.2    | 4.4    | 6.5    | 7.6    | 7.6    | 5.5    | 5.5    | 3.3    | 2.2    |
| 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)