

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637028

Luminaire Tested: GWS-SA4C-722-U-5NQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637028  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-722-U-5NQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

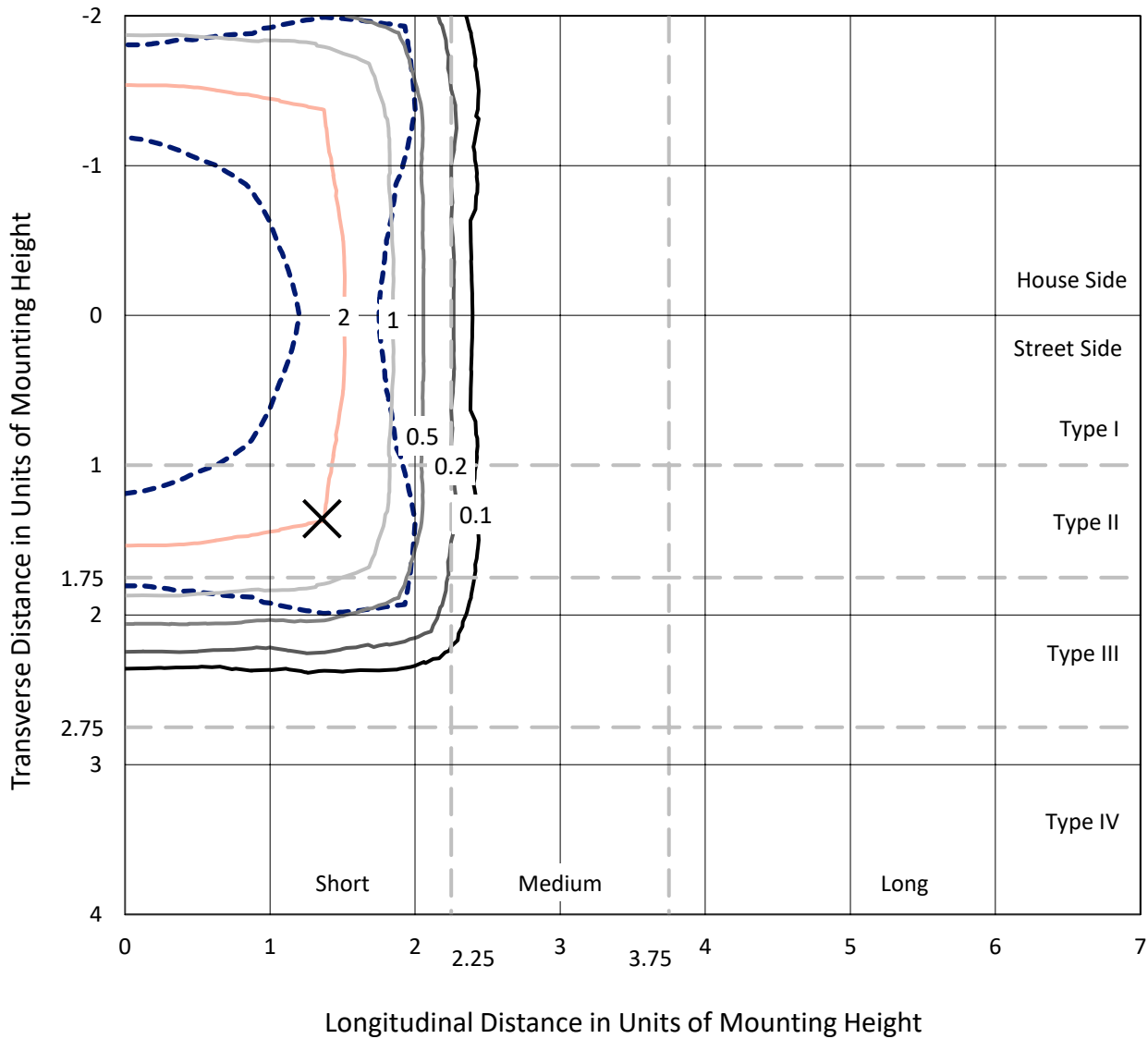
Lumens per Lamp: N/A  
Luminaire Lumens: 14944.8 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

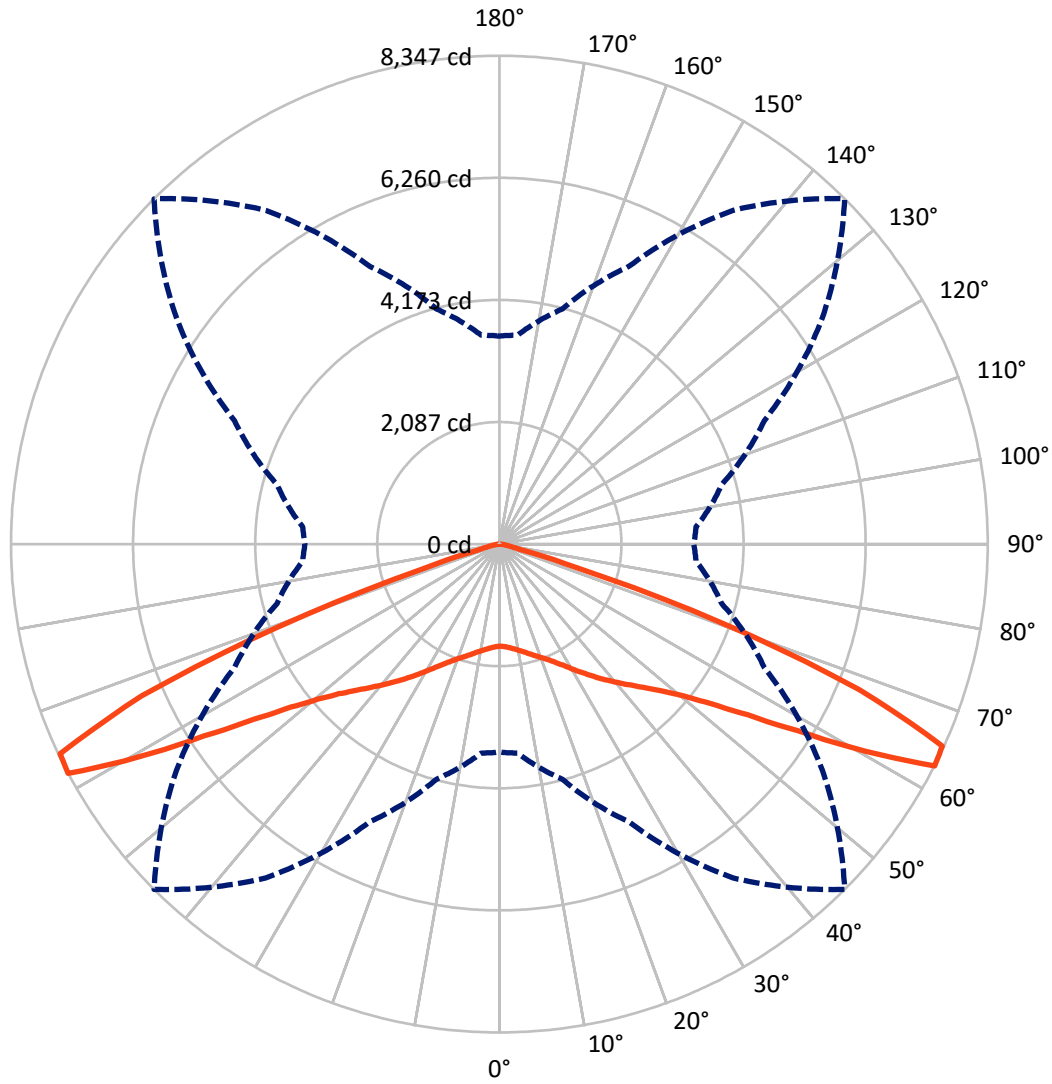
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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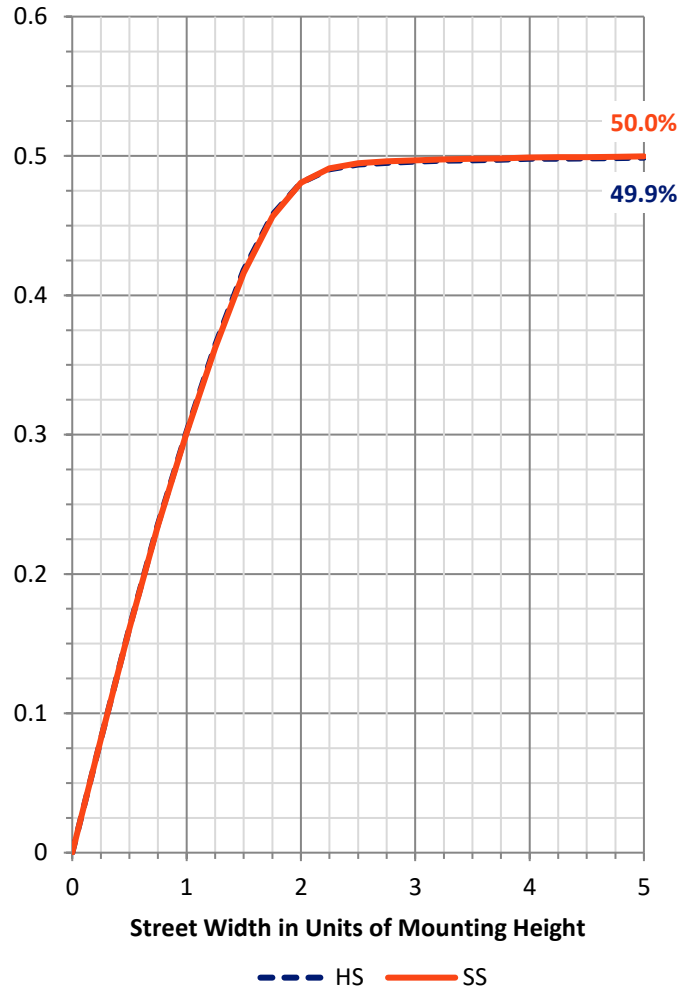
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7472.4   | 0.0    | 7472.4  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7472.4   | 0.0    | 7472.4  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 14944.8  | 0.0    | 14944.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 171.1   | 1.1       |
| 10°-20°   | 551.6   | 3.7       |
| 20°-30°   | 1043.7  | 7.0       |
| 30°-40°   | 1756.6  | 11.8      |
| 40°-50°   | 2806.6  | 18.8      |
| 50°-60°   | 4524.0  | 30.3      |
| 60°-70°   | 3691.1  | 24.7      |
| 70°-80°   | 358.4   | 2.4       |
| 80°-90°   | 41.7    | 0.3       |
| 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°    | 14944.8 | 100.0     |
| 0°-180°   | 14944.8 | 100.0     |

**Coefficient of Utilization**



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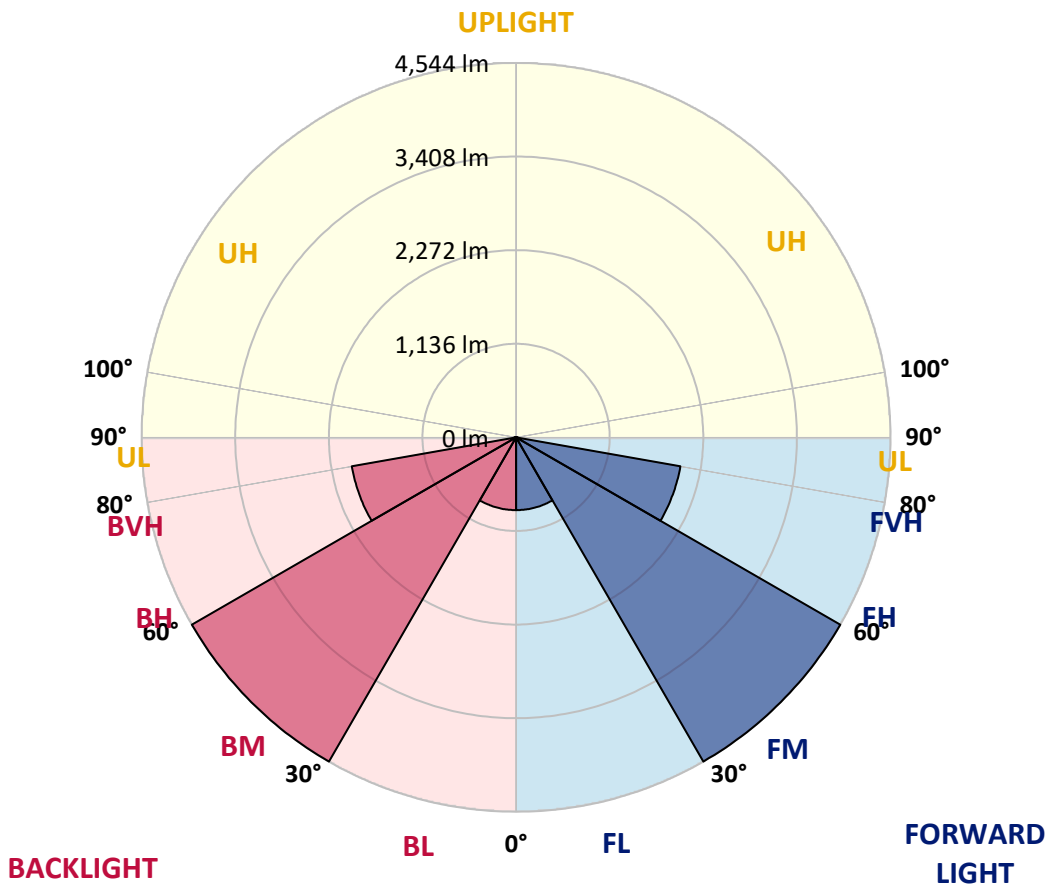
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 883.2  | 5.9       |                         |      |         |
| FM (30°-60°)   | 4543.6 | 30.4      |                         |      |         |
| FH (60°-80°)   | 2024.8 | 13.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 20.8   | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 883.2  | 5.9       | B2/1000                 |      |         |
| BM (30°-60°)   | 4543.6 | 30.4      | B3/5000                 |      |         |
| BH (60°-80°)   | 2024.8 | 13.5      | B3/2500                 |      | G2/5000 |
| BVH (80°-90°)  | 20.8   | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1743.5 | 1743.5 | 1743.5 | 1743.5 | 1743.5 | 1743.5 | 1743.5 | 1743.5 | 1743.5 | 1743.5 | 1743.5 |
| 2.5°  | 1741.5 | 1741.5 | 1745.6 | 1748.6 | 1746.6 | 1754.8 | 1753.8 | 1751.7 | 1750.7 | 1747.6 | 1756.8 |
| 5°    | 1765.0 | 1765.0 | 1768.1 | 1771.2 | 1766.1 | 1776.3 | 1772.2 | 1770.2 | 1769.1 | 1765.0 | 1773.2 |
| 7.5°  | 1791.7 | 1794.8 | 1795.8 | 1800.9 | 1797.8 | 1809.1 | 1806.0 | 1801.9 | 1799.9 | 1794.8 | 1801.9 |
| 10°   | 1821.4 | 1823.5 | 1824.5 | 1833.7 | 1834.7 | 1848.1 | 1845.0 | 1839.9 | 1835.8 | 1830.6 | 1840.9 |
| 12.5° | 1861.4 | 1862.4 | 1865.5 | 1876.8 | 1879.8 | 1890.1 | 1889.1 | 1881.9 | 1876.8 | 1869.6 | 1880.9 |
| 15°   | 1912.6 | 1913.7 | 1918.8 | 1930.1 | 1935.2 | 1947.5 | 1943.4 | 1932.1 | 1924.9 | 1916.7 | 1926.0 |
| 17.5° | 1965.9 | 1970.0 | 1975.2 | 1986.4 | 1993.6 | 2008.0 | 2002.8 | 1990.5 | 1984.4 | 1976.2 | 1982.3 |
| 20°   | 2034.6 | 2035.6 | 2038.7 | 2051.0 | 2056.1 | 2072.5 | 2073.6 | 2061.3 | 2058.2 | 2050.0 | 2059.2 |
| 22.5° | 2110.5 | 2111.5 | 2114.6 | 2127.9 | 2137.1 | 2147.4 | 2153.5 | 2146.3 | 2141.2 | 2131.0 | 2142.2 |
| 25°   | 2194.5 | 2204.8 | 2207.8 | 2224.2 | 2234.5 | 2240.6 | 2247.8 | 2244.7 | 2237.6 | 2225.3 | 2230.4 |
| 27.5° | 2312.4 | 2314.4 | 2319.6 | 2338.0 | 2344.2 | 2350.3 | 2357.5 | 2358.5 | 2348.3 | 2333.9 | 2341.1 |
| 30°   | 2446.7 | 2445.6 | 2456.9 | 2471.3 | 2476.4 | 2481.5 | 2491.8 | 2497.9 | 2484.6 | 2469.2 | 2476.4 |
| 32.5° | 2584.0 | 2596.3 | 2610.7 | 2624.0 | 2620.9 | 2623.0 | 2639.4 | 2650.6 | 2632.2 | 2604.5 | 2610.7 |
| 35°   | 2738.8 | 2747.0 | 2765.4 | 2784.9 | 2780.8 | 2777.7 | 2788.0 | 2799.3 | 2773.6 | 2737.8 | 2747.0 |
| 37.5° | 2897.7 | 2910.0 | 2937.6 | 2961.2 | 2955.1 | 2940.7 | 2952.0 | 2964.3 | 2939.7 | 2898.7 | 2894.6 |
| 40°   | 3075.0 | 3094.5 | 3134.4 | 3153.9 | 3137.5 | 3109.8 | 3129.3 | 3159.0 | 3134.4 | 3087.3 | 3076.0 |
| 42.5° | 3283.1 | 3306.6 | 3346.6 | 3376.3 | 3340.5 | 3295.4 | 3328.2 | 3371.2 | 3365.1 | 3302.5 | 3283.1 |
| 45°   | 3540.3 | 3555.7 | 3604.9 | 3619.2 | 3565.9 | 3503.4 | 3562.9 | 3628.5 | 3613.1 | 3545.4 | 3519.8 |
| 47.5° | 3820.1 | 3843.7 | 3886.8 | 3913.4 | 3827.3 | 3749.4 | 3832.4 | 3920.6 | 3904.2 | 3840.6 | 3810.9 |
| 50°   | 4176.8 | 4207.6 | 4264.0 | 4286.5 | 4167.6 | 4078.4 | 4185.0 | 4296.8 | 4265.0 | 4179.9 | 4141.0 |
| 52.5° | 4565.3 | 4589.9 | 4686.3 | 4731.4 | 4619.6 | 4523.3 | 4616.6 | 4726.2 | 4658.6 | 4545.8 | 4493.6 |
| 55°   | 4907.7 | 4932.3 | 5073.7 | 5223.4 | 5218.2 | 5151.6 | 5198.8 | 5200.8 | 5017.3 | 4830.8 | 4775.4 |
| 57.5° | 4981.5 | 5006.1 | 5275.6 | 5667.2 | 5943.9 | 6020.8 | 5882.4 | 5591.3 | 5129.1 | 4802.1 | 4739.6 |
| 60°   | 4587.9 | 4615.5 | 5044.0 | 5759.4 | 6669.6 | 7183.1 | 6545.6 | 5583.1 | 4783.6 | 4340.8 | 4281.4 |
| 62.5° | 3554.7 | 3584.4 | 4160.4 | 5234.6 | 6962.8 | 8346.5 | 6738.3 | 4995.8 | 3934.9 | 3374.3 | 3322.0 |
| 65°   | 1697.4 | 1697.4 | 2429.2 | 3754.5 | 6378.5 | 8318.8 | 6180.7 | 3696.1 | 2368.8 | 1819.4 | 1774.3 |
| 67.5° | 420.2  | 422.3  | 625.2  | 1461.6 | 4338.8 | 6638.9 | 4409.5 | 1774.3 | 834.3  | 590.4  | 575.0  |
| 70°   | 262.4  | 261.4  | 290.1  | 395.6  | 1518.0 | 4029.2 | 1803.0 | 535.0  | 339.3  | 299.3  | 297.2  |
| 72.5° | 204.0  | 204.0  | 218.3  | 253.2  | 397.7  | 1372.5 | 525.8  | 297.2  | 246.0  | 221.4  | 221.4  |
| 75°   | 160.9  | 160.9  | 171.2  | 189.6  | 234.7  | 353.6  | 279.8  | 220.4  | 190.6  | 174.2  | 172.2  |
| 77.5° | 119.9  | 122.0  | 130.2  | 142.5  | 159.9  | 198.8  | 177.3  | 166.0  | 148.6  | 136.3  | 132.2  |
| 80°   | 77.9   | 81.0   | 91.2   | 98.4   | 104.5  | 131.2  | 115.8  | 120.9  | 112.7  | 98.4   | 96.3   |
| 82.5° | 42.0   | 43.0   | 55.3   | 57.4   | 59.4   | 71.7   | 73.8   | 76.9   | 79.9   | 62.5   | 58.4   |
| 85°   | 15.4   | 15.4   | 18.4   | 21.5   | 23.6   | 25.6   | 34.8   | 43.0   | 45.1   | 35.9   | 34.8   |
| 87.5° | 3.1    | 3.1    | 3.1    | 2.0    | 2.0    | 2.0    | 6.1    | 11.3   | 18.4   | 14.3   | 14.3   |
| 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)