

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: P642485

Luminaire Tested: GWS-SA6D-722-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642485  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-722-U-SL2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

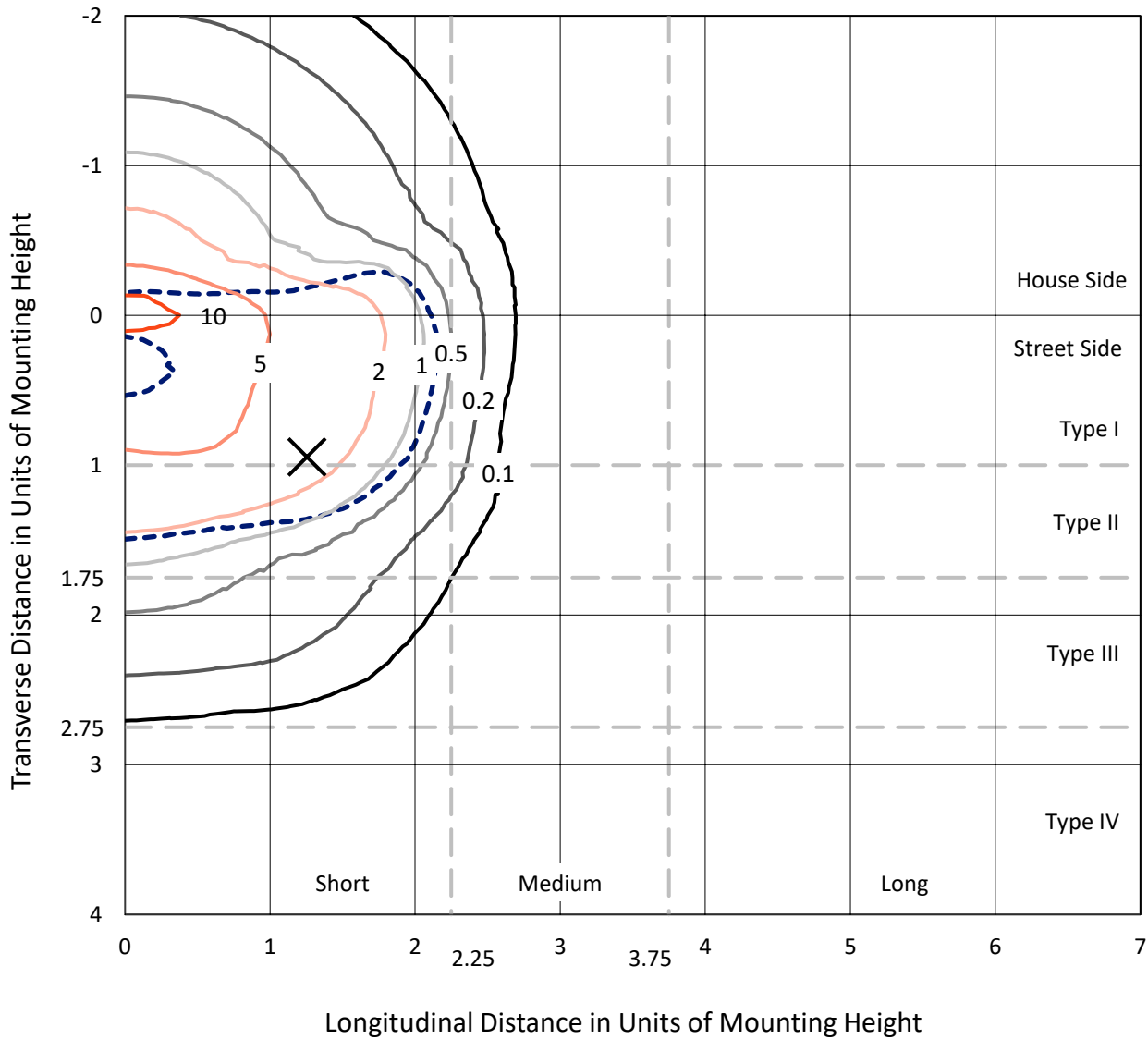
Lumens per Lamp: N/A  
Luminaire Lumens: 22473.4 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

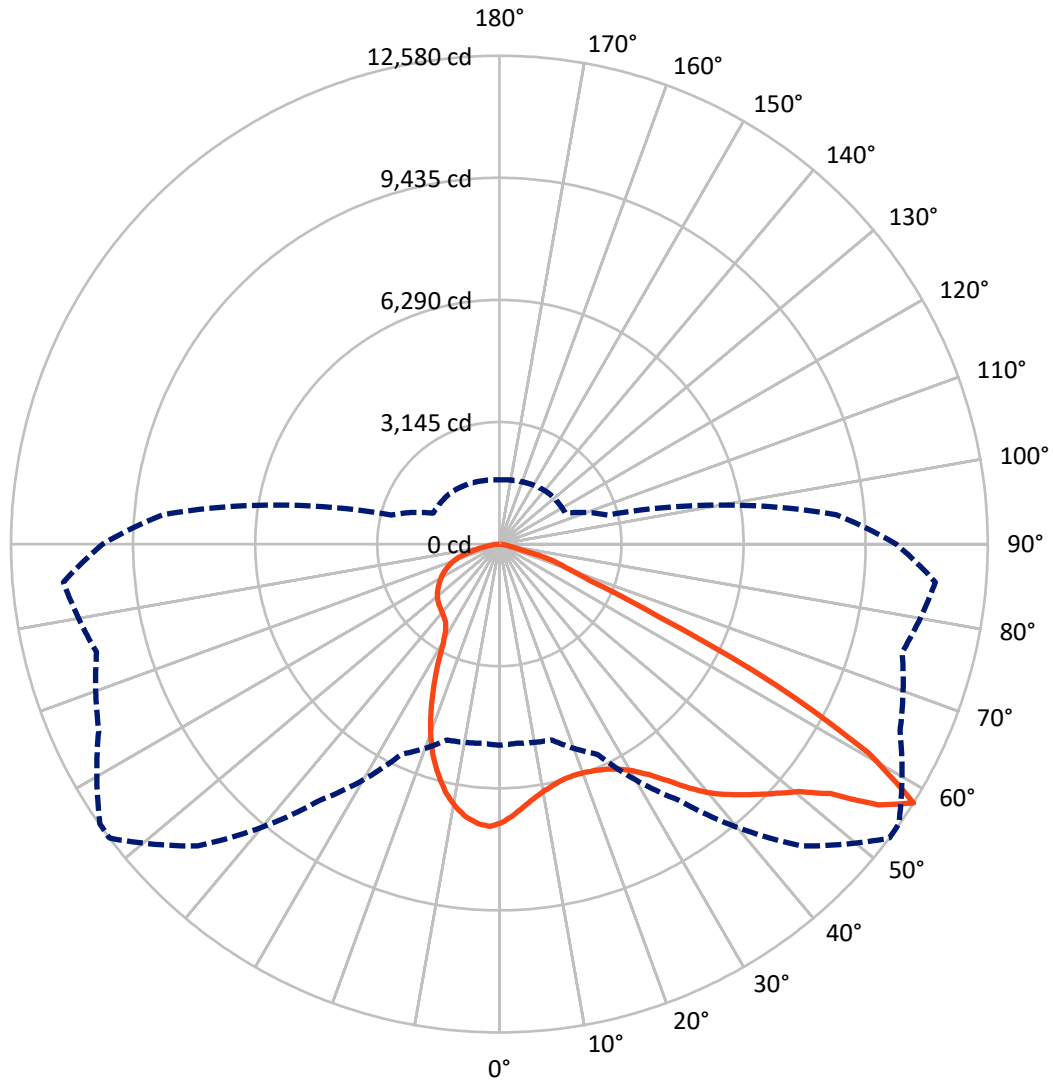
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7026.6   | 0.0    | 7026.6  |
|                    | % Fixture | 31.3     | 0.0    | 31.3    |
| <b>Street Side</b> | Lumens    | 15446.8  | 0.0    | 15446.8 |
|                    | % Fixture | 68.7     | 0.0    | 68.7    |
| <b>Total</b>       | Lumens    | 22473.4  | 0.0    | 22473.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 649.0   | 2.9       |
| 10°-20°   | 1702.6  | 7.6       |
| 20°-30°   | 2508.5  | 11.2      |
| 30°-40°   | 3511.2  | 15.6      |
| 40°-50°   | 4615.8  | 20.5      |
| 50°-60°   | 5412.0  | 24.1      |
| 60°-70°   | 3188.3  | 14.2      |
| 70°-80°   | 793.1   | 3.5       |
| 80°-90°   | 93.1    | 0.4       |
| 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°    | 22473.4 | 100.0     |
| 0°-180°   | 22473.4 | 100.0     |

**Coefficient of Utilization**



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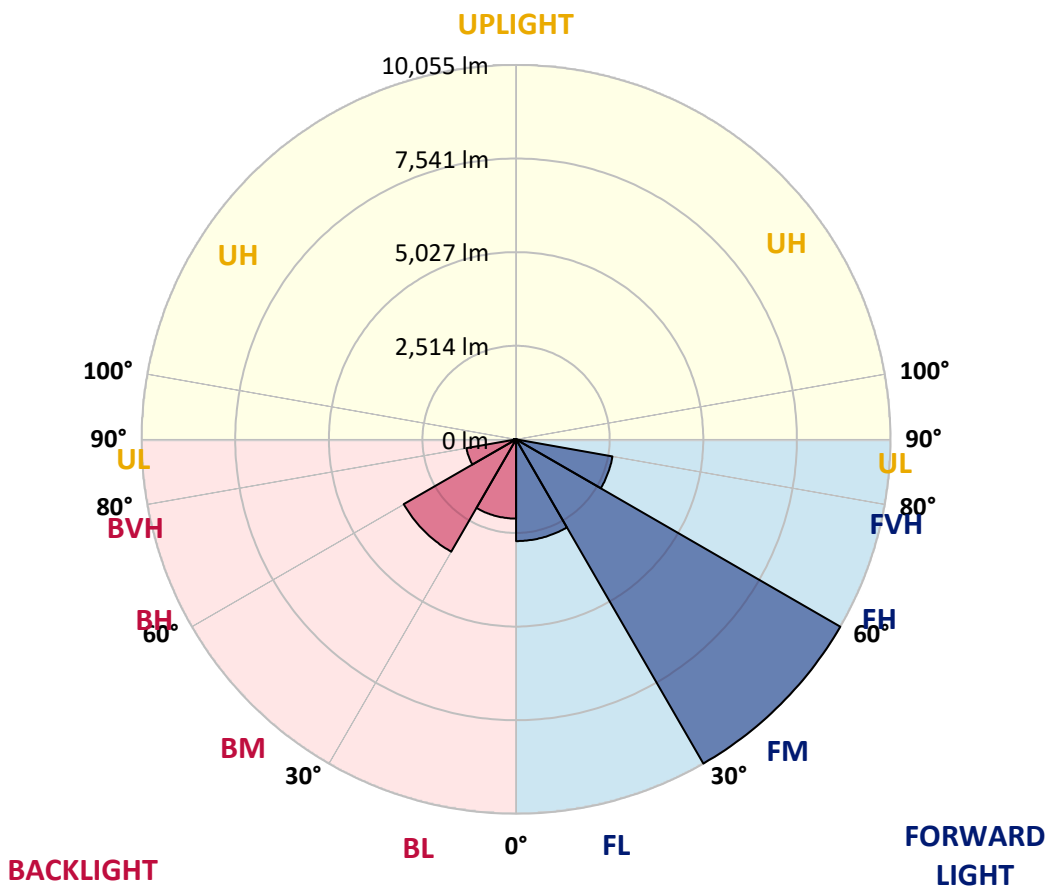
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2732.3  | 12.2      |                         |      |         |
| FM (30°-60°)   | 10054.8 | 44.7      |                         |      |         |
| FH (60°-80°)   | 2628.5  | 11.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 31.1    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 2127.7  | 9.5       | B3/2500                 |      |         |
| BM (30°-60°)   | 3484.1  | 15.5      | B3/5000                 |      |         |
| BH (60°-80°)   | 1352.9  | 6.0       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 61.9    | 0.3       |                         |      | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 53°     | 55°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7176.4 | 7176.4 | 7176.4 | 7176.4 | 7176.4  | 7176.4  | 7176.4  | 7176.4  | 7176.4  | 7176.4  | 7176.4  |
| 2.5°  | 6764.0 | 6782.9 | 6786.7 | 6845.4 | 6849.1  | 6934.3  | 6991.0  | 6979.6  | 7038.3  | 7110.2  | 7166.9  |
| 5°    | 6440.6 | 6442.5 | 6461.4 | 6531.4 | 6569.2  | 6680.8  | 6775.4  | 6775.4  | 6888.9  | 7036.4  | 7163.1  |
| 7.5°  | 6173.9 | 6172.0 | 6189.0 | 6266.6 | 6329.0  | 6463.3  | 6591.9  | 6607.0  | 6765.9  | 6981.5  | 7187.7  |
| 10°   | 5926.1 | 5939.3 | 5958.2 | 6052.8 | 6132.3  | 6298.7  | 6451.9  | 6476.5  | 6677.0  | 6943.7  | 7221.8  |
| 12.5° | 5767.2 | 5769.1 | 5797.5 | 5903.4 | 6005.5  | 6183.3  | 6344.1  | 6374.4  | 6605.1  | 6907.8  | 7246.3  |
| 15°   | 5665.1 | 5666.9 | 5697.2 | 5814.5 | 5933.6  | 6113.3  | 6277.9  | 6311.9  | 6563.5  | 6902.1  | 7293.6  |
| 17.5° | 5619.7 | 5617.8 | 5646.1 | 5763.4 | 5893.9  | 6081.2  | 6257.1  | 6298.7  | 6582.4  | 6945.6  | 7376.9  |
| 20°   | 5619.7 | 5621.5 | 5636.7 | 5742.6 | 5875.0  | 6073.6  | 6277.9  | 6329.0  | 6656.2  | 7044.0  | 7505.5  |
| 22.5° | 5699.1 | 5706.7 | 5714.2 | 5786.1 | 5890.1  | 6085.0  | 6332.8  | 6400.8  | 6815.1  | 7208.5  | 7673.8  |
| 25°   | 5854.2 | 5856.1 | 5863.7 | 5922.3 | 5969.6  | 6117.1  | 6423.5  | 6525.7  | 7062.9  | 7448.7  | 7885.7  |
| 27.5° | 6062.3 | 6088.7 | 6096.3 | 6134.1 | 6134.1  | 6196.6  | 6565.4  | 6712.9  | 7397.7  | 7794.9  | 8156.2  |
| 30°   | 6353.6 | 6363.0 | 6376.3 | 6417.9 | 6372.5  | 6346.0  | 6773.5  | 6962.6  | 7785.4  | 8212.9  | 8481.5  |
| 32.5° | 6608.9 | 6629.7 | 6701.6 | 6769.7 | 6688.4  | 6605.1  | 7079.9  | 7303.1  | 8158.1  | 8648.0  | 8827.6  |
| 35°   | 6826.4 | 6877.5 | 7015.6 | 7166.9 | 7110.2  | 7026.9  | 7486.6  | 7719.2  | 8464.5  | 8960.1  | 9134.1  |
| 37.5° | 7089.4 | 7129.1 | 7318.2 | 7564.1 | 7615.2  | 7575.5  | 7982.1  | 8148.6  | 8668.8  | 9039.5  | 9300.5  |
| 40°   | 7356.1 | 7416.6 | 7660.6 | 8001.1 | 8195.9  | 8224.3  | 8439.9  | 8551.5  | 8738.7  | 8884.4  | 9268.4  |
| 42.5° | 7628.4 | 7732.5 | 8067.3 | 8464.5 | 8810.6  | 8874.9  | 8825.8  | 8873.0  | 8716.0  | 8670.7  | 9118.9  |
| 45°   | 7961.3 | 8084.3 | 8462.6 | 8969.5 | 9425.4  | 9525.6  | 9204.1  | 9160.6  | 8712.3  | 8589.3  | 9026.3  |
| 47.5° | 8354.8 | 8477.7 | 8839.0 | 9429.1 | 10011.7 | 10085.5 | 9591.8  | 9512.4  | 8844.7  | 8714.2  | 9151.1  |
| 50°   | 8702.8 | 8787.9 | 9111.4 | 9771.5 | 10558.4 | 10601.9 | 10019.3 | 9922.8  | 9173.8  | 9060.3  | 9540.7  |
| 52.5° | 8349.1 | 8339.6 | 8680.1 | 9493.5 | 10842.1 | 11366.0 | 10677.5 | 10584.9 | 9809.3  | 9635.3  | 10144.1 |
| 55°   | 7083.7 | 6975.9 | 7280.4 | 8080.5 | 10049.6 | 12045.1 | 11857.8 | 11672.5 | 10656.7 | 10214.1 | 10709.7 |
| 57.5° | 5178.9 | 5148.7 | 5222.4 | 5973.4 | 8050.2  | 10993.4 | 12580.4 | 12563.4 | 11388.7 | 10743.7 | 11273.4 |
| 60°   | 4049.7 | 4004.3 | 3807.6 | 3828.4 | 5487.3  | 8587.4  | 10917.8 | 11419.0 | 11842.7 | 11061.5 | 11666.8 |
| 62.5° | 3595.7 | 3561.7 | 3459.6 | 3177.7 | 3268.5  | 5757.7  | 8003.0  | 8462.6  | 10348.4 | 9769.6  | 10021.2 |
| 65°   | 2977.2 | 2967.8 | 3052.9 | 3041.5 | 2738.9  | 3179.6  | 4516.9  | 4980.3  | 6506.8  | 6588.1  | 6506.8  |
| 67.5° | 2163.9 | 2146.9 | 2362.5 | 2788.1 | 2636.8  | 2400.3  | 2517.6  | 2678.4  | 3336.6  | 2996.1  | 2697.3  |
| 70°   | 1407.3 | 1382.7 | 1507.5 | 2014.5 | 2360.6  | 2092.0  | 1814.0  | 1787.5  | 1834.8  | 1140.6  | 1233.3  |
| 72.5° | 943.9  | 915.5  | 913.6  | 1108.4 | 1426.2  | 1409.2  | 1405.4  | 1392.1  | 1242.7  | 900.4   | 998.7   |
| 75°   | 525.8  | 503.1  | 497.5  | 478.6  | 510.7   | 520.2   | 554.2   | 573.1   | 620.4   | 682.8   | 756.6   |
| 77.5° | 88.9   | 87.0   | 109.7  | 140.0  | 192.9   | 247.8   | 306.4   | 323.4   | 399.1   | 472.9   | 520.2   |
| 80°   | 49.2   | 51.1   | 66.2   | 81.3   | 107.8   | 147.5   | 189.2   | 200.5   | 245.9   | 285.6   | 323.4   |
| 82.5° | 26.5   | 26.5   | 34.0   | 43.5   | 58.6    | 77.6    | 102.1   | 111.6   | 141.9   | 166.5   | 192.9   |
| 85°   | 9.5    | 9.5    | 13.2   | 17.0   | 24.6    | 32.2    | 39.7    | 45.4    | 62.4    | 85.1    | 96.5    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.9     | 3.8     | 7.6     | 7.6     | 9.5     | 17.0    | 24.6    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



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CATALOG NUMBER: GWS-SA6D-722-U-SL2-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7176.4  | 7176.4 | 7176.4 | 7176.4 | 7176.4 | 7176.4 | 7176.4 | 7176.4 | 7176.4 | 7176.4 | 7176.4 |
| 2.5°  | 7214.2  | 7163.1 | 7233.1 | 7265.3 | 7276.6 | 7284.2 | 7235.0 | 7201.0 | 7189.6 | 7153.7 | 7132.9 |
| 5°    | 7240.7  | 7206.6 | 7272.8 | 7272.8 | 7225.5 | 7176.4 | 7076.1 | 7006.1 | 6956.9 | 6898.3 | 6888.9 |
| 7.5°  | 7286.1  | 7261.5 | 7297.4 | 7223.7 | 7104.5 | 6972.1 | 6798.1 | 6661.9 | 6552.2 | 6480.3 | 6482.2 |
| 10°   | 7346.6  | 7316.3 | 7288.0 | 7123.4 | 6905.9 | 6661.9 | 6395.2 | 6196.6 | 6015.0 | 5931.8 | 5886.4 |
| 12.5° | 7386.3  | 7342.8 | 7223.7 | 6951.3 | 6631.6 | 6304.4 | 5928.0 | 5632.9 | 5370.0 | 5250.8 | 5241.4 |
| 15°   | 7435.5  | 7356.1 | 7117.7 | 6728.1 | 6283.6 | 5837.2 | 5353.0 | 4942.5 | 4586.9 | 4401.5 | 4392.1 |
| 17.5° | 7499.8  | 7369.3 | 6991.0 | 6472.7 | 5916.6 | 5258.4 | 4649.3 | 4132.9 | 3754.6 | 3610.9 | 3635.5 |
| 20°   | 7590.6  | 7384.4 | 6847.2 | 6189.0 | 5460.8 | 4600.1 | 3841.6 | 3366.9 | 3221.2 | 3211.8 | 3192.9 |
| 22.5° | 7692.7  | 7393.9 | 6688.4 | 5871.2 | 4908.5 | 3898.4 | 3173.9 | 2971.6 | 2969.7 | 3016.9 | 3028.3 |
| 25°   | 7808.1  | 7401.5 | 6508.7 | 5500.5 | 4310.7 | 3198.5 | 2807.0 | 2746.5 | 2793.8 | 2882.7 | 2894.0 |
| 27.5° | 7955.7  | 7416.6 | 6291.1 | 5093.8 | 3675.2 | 2763.5 | 2604.6 | 2589.5 | 2646.2 | 2729.4 | 2725.7 |
| 30°   | 8173.2  | 7471.4 | 6060.4 | 4626.6 | 3022.6 | 2557.3 | 2481.7 | 2483.5 | 2506.2 | 2546.0 | 2551.6 |
| 32.5° | 8394.5  | 7556.6 | 5835.3 | 4100.8 | 2648.1 | 2440.0 | 2406.0 | 2402.2 | 2402.2 | 2419.2 | 2423.0 |
| 35°   | 8604.4  | 7653.0 | 5591.3 | 3552.2 | 2466.5 | 2371.9 | 2349.2 | 2337.9 | 2332.2 | 2328.4 | 2322.8 |
| 37.5° | 8721.7  | 7700.3 | 5353.0 | 3011.3 | 2370.1 | 2326.5 | 2303.9 | 2288.7 | 2267.9 | 2252.8 | 2249.0 |
| 40°   | 8670.7  | 7645.5 | 5076.8 | 2606.5 | 2311.4 | 2283.0 | 2256.6 | 2235.8 | 2207.4 | 2194.1 | 2186.6 |
| 42.5° | 8500.4  | 7475.2 | 4776.0 | 2415.4 | 2264.1 | 2235.8 | 2203.6 | 2169.6 | 2150.6 | 2139.3 | 2137.4 |
| 45°   | 8320.7  | 7269.0 | 4412.9 | 2303.9 | 2218.7 | 2184.7 | 2146.9 | 2109.0 | 2088.2 | 2082.5 | 2080.7 |
| 47.5° | 8315.0  | 7166.9 | 4027.0 | 2215.0 | 2163.9 | 2129.8 | 2082.5 | 2044.7 | 2022.0 | 2014.5 | 2006.9 |
| 50°   | 8564.7  | 7270.9 | 3592.0 | 2137.4 | 2107.1 | 2071.2 | 2018.2 | 1976.6 | 1948.2 | 1938.8 | 1936.9 |
| 52.5° | 9083.0  | 7662.5 | 3202.3 | 2059.8 | 2031.5 | 1989.9 | 1946.4 | 1904.7 | 1870.7 | 1853.7 | 1851.8 |
| 55°   | 9642.9  | 8159.9 | 2960.2 | 1980.4 | 1942.6 | 1906.6 | 1866.9 | 1821.5 | 1783.7 | 1757.2 | 1753.4 |
| 57.5° | 10221.7 | 8702.8 | 2886.4 | 1880.2 | 1851.8 | 1827.2 | 1779.9 | 1730.7 | 1687.2 | 1662.6 | 1657.0 |
| 60°   | 10698.3 | 9170.0 | 3024.5 | 1774.2 | 1759.1 | 1726.9 | 1683.4 | 1636.2 | 1605.9 | 1587.0 | 1583.2 |
| 62.5° | 8956.3  | 7465.8 | 2441.9 | 1658.8 | 1658.8 | 1624.8 | 1575.6 | 1541.6 | 1520.8 | 1507.5 | 1503.7 |
| 65°   | 5684.0  | 4622.8 | 1666.4 | 1543.5 | 1541.6 | 1496.2 | 1454.6 | 1431.9 | 1422.4 | 1401.6 | 1397.8 |
| 67.5° | 2476.0  | 2112.8 | 1424.3 | 1426.2 | 1418.6 | 1369.4 | 1327.8 | 1310.8 | 1291.9 | 1269.2 | 1267.3 |
| 70°   | 1284.3  | 1308.9 | 1274.9 | 1295.7 | 1282.4 | 1223.8 | 1184.1 | 1157.6 | 1117.9 | 1095.2 | 1097.1 |
| 72.5° | 1036.5  | 1063.0 | 1100.9 | 1133.0 | 1104.6 | 1057.4 | 994.9  | 962.8  | 911.7  | 887.1  | 889.0  |
| 75°   | 790.6   | 819.0  | 855.0  | 889.0  | 866.3  | 807.7  | 768.0  | 735.8  | 677.2  | 648.8  | 654.5  |
| 77.5° | 544.8   | 559.9  | 603.4  | 601.5  | 593.9  | 576.9  | 518.3  | 480.4  | 419.9  | 385.9  | 389.6  |
| 80°   | 338.6   | 348.0  | 368.8  | 378.3  | 374.5  | 351.8  | 304.5  | 276.2  | 240.2  | 219.4  | 221.3  |
| 82.5° | 204.3   | 210.0  | 228.9  | 230.8  | 228.9  | 211.8  | 175.9  | 155.1  | 132.4  | 121.1  | 121.1  |
| 85°   | 104.0   | 107.8  | 119.2  | 119.2  | 107.8  | 90.8   | 81.3   | 71.9   | 58.6   | 53.0   | 53.0   |
| 87.5° | 28.4    | 28.4   | 35.9   | 30.3   | 24.6   | 22.7   | 11.3   | 9.5    | 3.8    | 1.9    | 1.9    |
| 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)