

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: P529178

Luminaire Tested: **GALN-SA4B-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529178  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-740-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19781 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

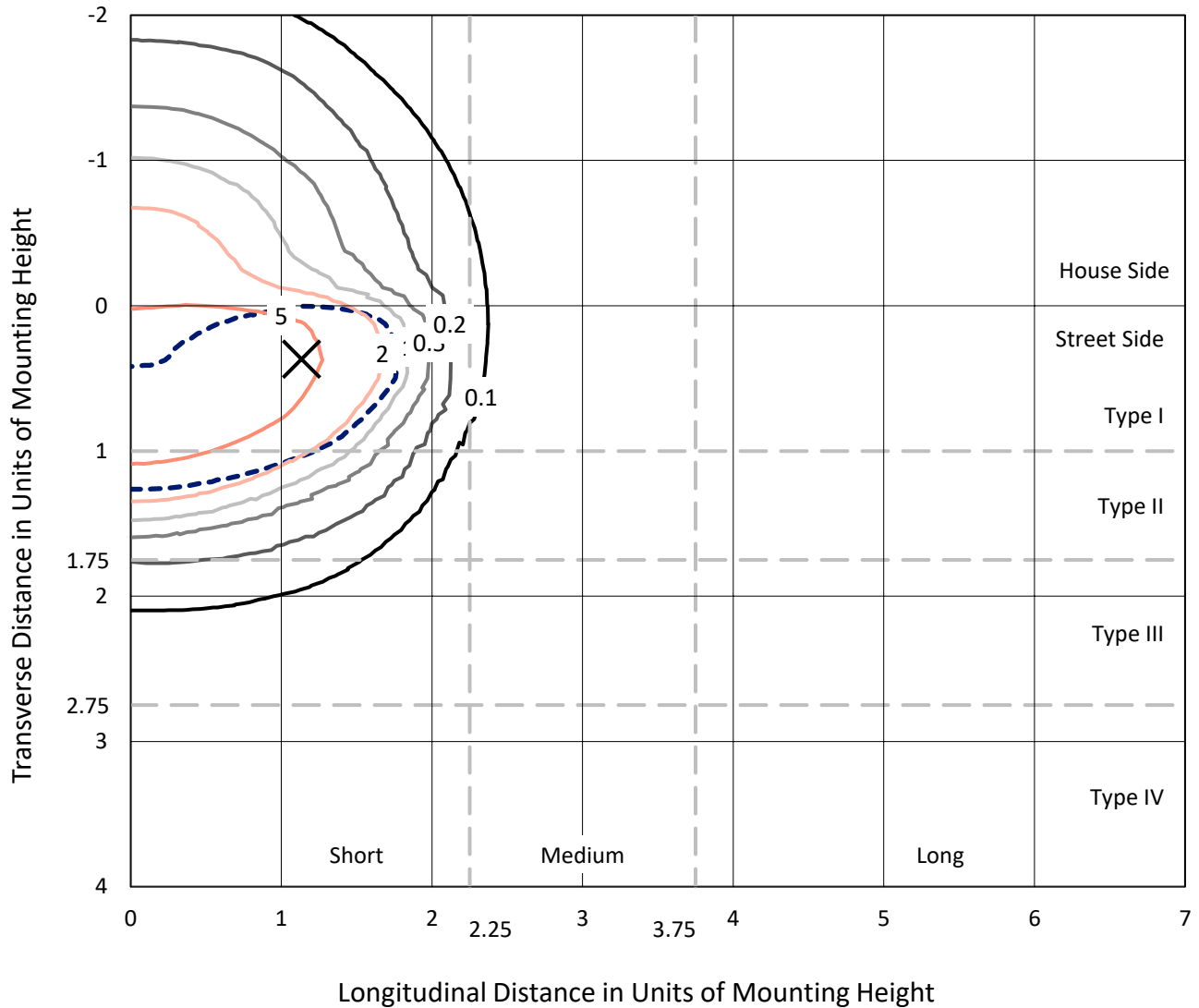
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

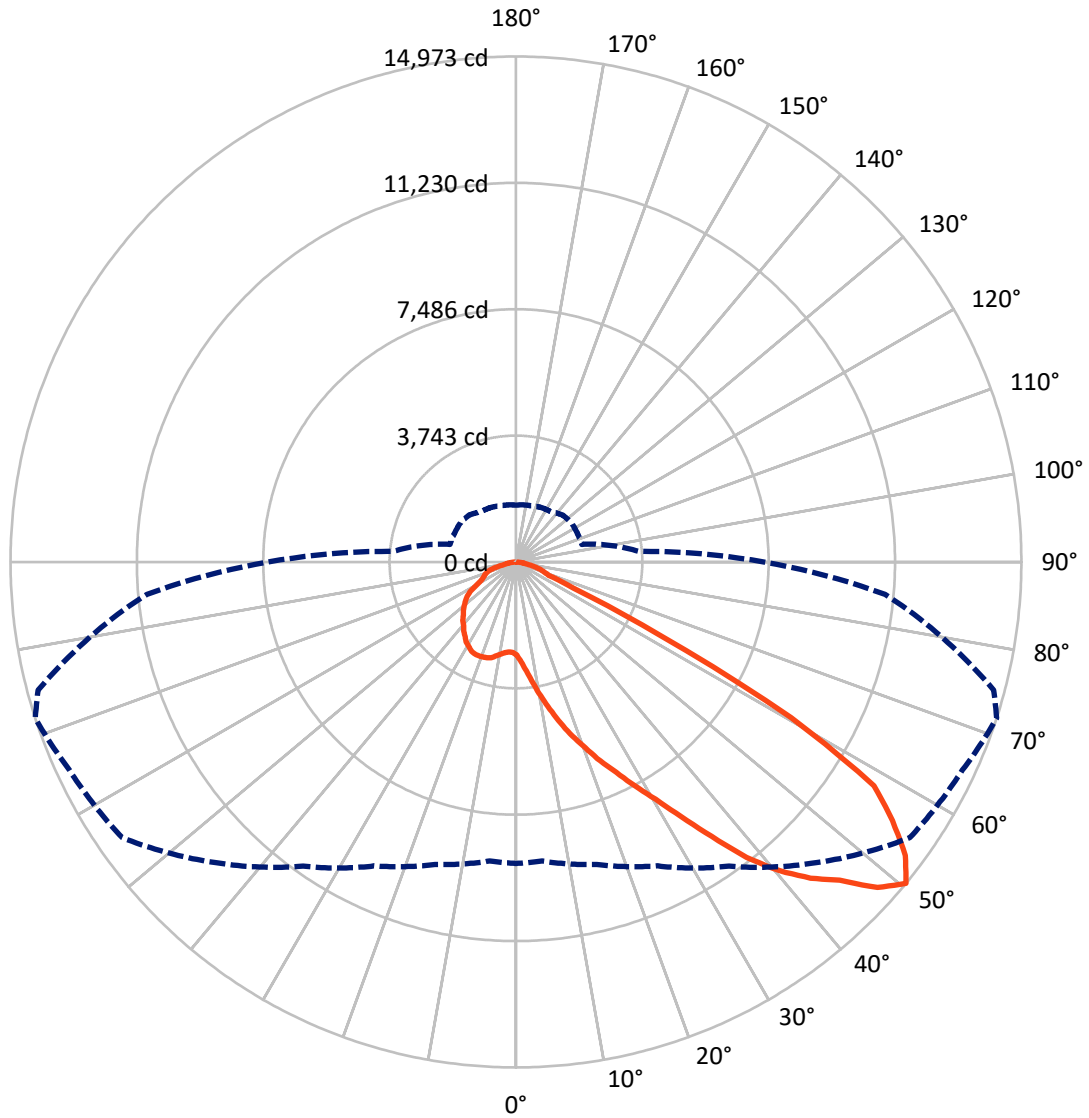
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4531.9   | 0.0    | 4531.9  |
|                    | % Fixture | 22.9     | 0.0    | 22.9    |
| <b>Street Side</b> | Lumens    | 15249.1  | 0.0    | 15249.1 |
|                    | % Fixture | 77.1     | 0.0    | 77.1    |
| <b>Total</b>       | Lumens    | 19781.0  | 0.0    | 19781.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 323.9   | 1.6       |
| 10°-20°   | 1210.9  | 6.1       |
| 20°-30°   | 2347.8  | 11.9      |
| 30°-40°   | 3889.4  | 19.7      |
| 40°-50°   | 5442.2  | 27.5      |
| 50°-60°   | 4591.2  | 23.2      |
| 60°-70°   | 1399.4  | 7.1       |
| 70°-80°   | 490.9   | 2.5       |
| 80°-90°   | 85.4    | 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°    | 19781.0 | 100.0     |
| 0°-180°   | 19781.0 | 100.0     |

**Coefficient of Utilization**

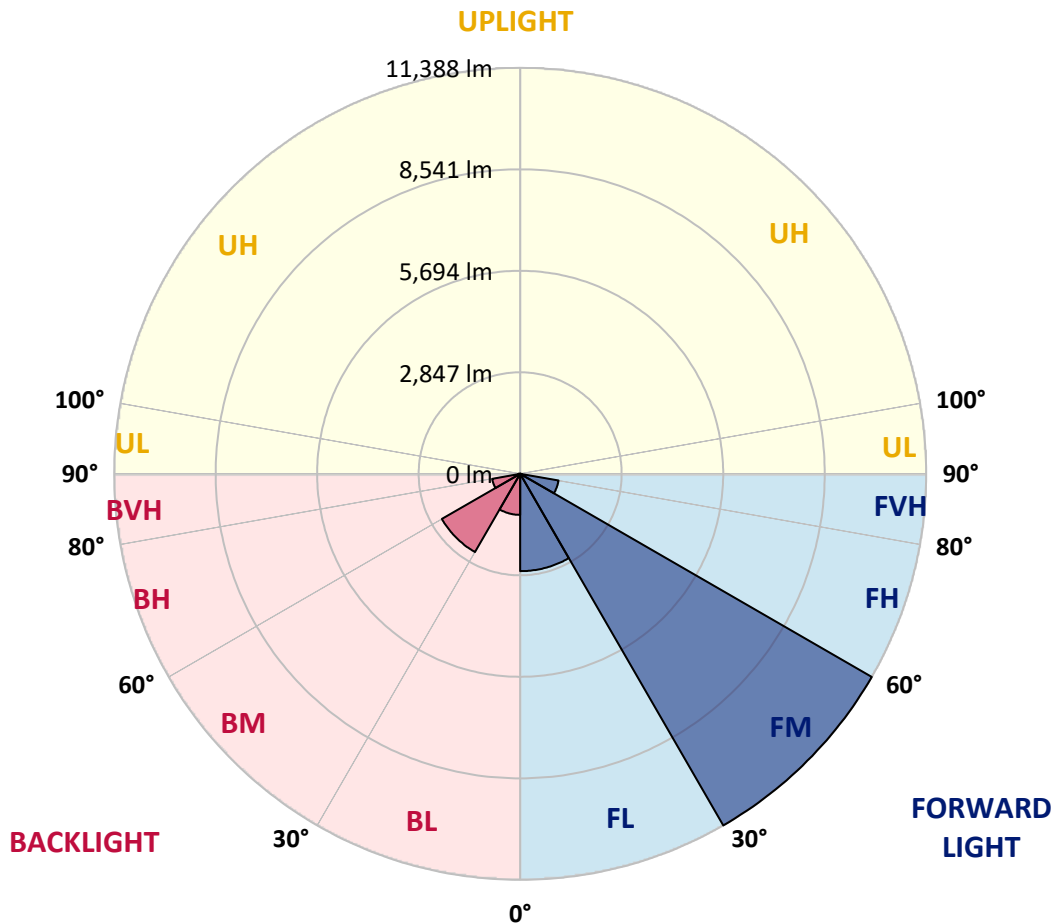


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2730.5  | 13.8      |                         |      |         |
| FM (30°-60°)   | 11388.5 | 57.6      |                         |      |         |
| FH (60°-80°)   | 1091.9  | 5.5       |                         |      | G1/1800 |
| FVH (80°-90°)  | 38.2    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 1152.0  | 5.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 2534.3  | 12.8      | B3/5000                 |      |         |
| BH (60°-80°)   | 798.4   | 4.0       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 47.1    | 0.2       |                         |      | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 72°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2753.7  | 2753.7  | 2753.7  | 2753.7  | 2753.7  | 2753.7  | 2753.7  | 2753.7  | 2753.7  | 2753.7  | 2753.7  |
| 2.5°  | 3541.8  | 3519.8  | 3453.7  | 3431.7  | 3353.4  | 3211.4  | 3162.5  | 3018.0  | 2956.8  | 2900.5  | 2834.5  |
| 5°    | 4479.3  | 4376.5  | 4369.2  | 4244.3  | 4063.2  | 3958.0  | 3644.7  | 3434.1  | 3240.8  | 3142.9  | 2961.7  |
| 7.5°  | 5076.6  | 5079.0  | 5079.0  | 4976.2  | 4831.8  | 4565.0  | 4283.5  | 3904.1  | 3612.8  | 3468.4  | 3160.0  |
| 10°   | 5644.4  | 5595.5  | 5568.6  | 5558.8  | 5460.9  | 5201.4  | 4900.3  | 4430.4  | 4031.4  | 3862.5  | 3309.3  |
| 12.5° | 6045.9  | 6004.3  | 6065.4  | 6033.6  | 5962.6  | 5793.8  | 5509.8  | 4973.8  | 4474.4  | 4246.8  | 3549.2  |
| 15°   | 6236.8  | 6266.2  | 6315.1  | 6403.2  | 6371.4  | 6307.8  | 5994.5  | 5531.8  | 4951.7  | 4694.7  | 3762.1  |
| 17.5° | 6530.5  | 6449.7  | 6508.5  | 6618.6  | 6706.8  | 6677.4  | 6498.7  | 5935.7  | 5424.1  | 5108.4  | 4048.5  |
| 20°   | 6736.1  | 6689.6  | 6719.0  | 6846.3  | 6912.4  | 7078.8  | 6985.8  | 6464.4  | 5877.0  | 5544.1  | 4386.3  |
| 22.5° | 7323.6  | 7255.0  | 7159.6  | 7179.2  | 7203.6  | 7321.1  | 7343.2  | 7044.5  | 6403.2  | 6050.8  | 4707.0  |
| 25°   | 8048.1  | 7984.5  | 7871.9  | 7756.8  | 7685.8  | 7663.8  | 7739.7  | 7499.8  | 6907.5  | 6542.8  | 5052.1  |
| 27.5° | 8846.1  | 8738.4  | 8667.4  | 8429.9  | 8239.0  | 8209.6  | 8172.9  | 8043.2  | 7504.7  | 7110.6  | 5441.3  |
| 30°   | 9622.0  | 9536.3  | 9440.9  | 9061.5  | 8863.2  | 8831.4  | 8650.2  | 8687.0  | 8153.4  | 7715.2  | 5881.9  |
| 32.5° | 10209.4 | 10216.8 | 9998.9  | 9712.5  | 9526.5  | 9357.6  | 9291.5  | 9396.8  | 8985.6  | 8633.1  | 6373.9  |
| 35°   | 10684.3 | 10706.3 | 10498.3 | 10238.8 | 10038.1 | 10155.6 | 10126.2 | 10175.2 | 9979.4  | 9548.6  | 6946.6  |
| 37.5° | 11146.9 | 11036.8 | 10814.0 | 10689.2 | 10583.9 | 10777.3 | 11027.0 | 11068.6 | 11105.3 | 10598.6 | 7612.4  |
| 40°   | 11222.8 | 11232.6 | 11102.9 | 11191.0 | 11058.8 | 11350.1 | 11930.2 | 11876.3 | 12025.6 | 11582.6 | 8334.5  |
| 42.5° | 11115.1 | 11137.1 | 11188.5 | 11313.4 | 11631.6 | 11981.6 | 12843.2 | 12622.9 | 12804.0 | 12409.9 | 9037.0  |
| 45°   | 10938.9 | 10848.3 | 10911.9 | 11386.8 | 11937.5 | 12715.9 | 13677.9 | 13506.5 | 13447.8 | 13117.3 | 9874.1  |
| 47.5° | 10096.8 | 10189.9 | 10388.1 | 10973.1 | 11800.5 | 12843.2 | 14270.2 | 14231.0 | 14407.3 | 14174.7 | 10635.3 |
| 50°   | 8929.3  | 8892.6  | 9274.4  | 9932.8  | 11000.0 | 12593.5 | 14238.4 | 14593.3 | 14972.7 | 14649.6 | 10975.6 |
| 52.5° | 6687.2  | 6883.0  | 7211.0  | 8028.5  | 9551.0  | 11232.6 | 13543.2 | 14135.6 | 14444.0 | 14375.5 | 10701.4 |
| 55°   | 4227.2  | 4286.0  | 4484.2  | 5456.0  | 6826.7  | 9014.9  | 11609.5 | 12982.7 | 13533.4 | 13790.4 | 10449.3 |
| 57.5° | 2053.6  | 1943.5  | 2185.8  | 2966.6  | 3943.3  | 6063.0  | 8953.8  | 11308.5 | 12505.4 | 12970.5 | 9901.0  |
| 60°   | 1072.1  | 1113.7  | 1209.2  | 1488.2  | 2038.9  | 3147.8  | 5580.8  | 7536.5  | 9365.0  | 10079.7 | 7504.7  |
| 62.5° | 888.5   | 903.2   | 966.8   | 1106.4  | 1356.0  | 1811.3  | 2849.1  | 3674.0  | 4775.5  | 5419.2  | 4268.8  |
| 65°   | 753.9   | 761.2   | 829.8   | 922.8   | 1081.9  | 1275.3  | 1466.2  | 1534.7  | 1857.8  | 1906.8  | 1517.6  |
| 67.5° | 629.1   | 636.4   | 709.8   | 798.0   | 900.8   | 952.2   | 1001.1  | 996.2   | 1032.9  | 1018.3  | 1015.8  |
| 70°   | 484.6   | 492.0   | 567.9   | 660.9   | 712.3   | 682.9   | 834.7   | 868.9   | 883.6   | 895.9   | 915.4   |
| 72.5° | 350.0   | 364.7   | 423.5   | 489.5   | 462.6   | 531.2   | 687.8   | 739.2   | 758.8   | 766.1   | 790.6   |
| 75°   | 254.6   | 259.5   | 274.1   | 254.6   | 293.7   | 369.6   | 484.6   | 548.3   | 572.8   | 580.1   | 616.8   |
| 77.5° | 112.6   | 115.0   | 117.5   | 146.9   | 188.5   | 230.1   | 288.8   | 340.2   | 374.5   | 384.3   | 394.1   |
| 80°   | 58.7    | 61.2    | 75.9    | 100.4   | 134.6   | 168.9   | 210.5   | 239.9   | 261.9   | 264.4   | 274.1   |
| 82.5° | 36.7    | 39.2    | 53.8    | 71.0    | 95.5    | 124.8   | 154.2   | 178.7   | 195.8   | 198.3   | 200.7   |
| 85°   | 17.1    | 22.0    | 31.8    | 44.1    | 63.6    | 80.8    | 83.2    | 71.0    | 75.9    | 78.3    | 73.4    |
| 87.5° | 4.9     | 7.3     | 9.8     | 7.3     | 9.8     | 9.8     | 12.2    | 14.7    | 14.7    | 14.7    | 17.1    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2753.7 | 2753.7 | 2753.7 | 2753.7 | 2753.7 | 2753.7 | 2753.7 | 2753.7 | 2753.7 | 2753.7 | 2753.7 |
| 2.5°  | 2797.7 | 2775.7 | 2690.0 | 2658.2 | 2575.0 | 2589.7 | 2545.6 | 2543.2 | 2533.4 | 2530.9 | 2528.5 |
| 5°    | 2866.3 | 2797.7 | 2694.9 | 2616.6 | 2570.1 | 2565.2 | 2533.4 | 2533.4 | 2543.2 | 2550.5 | 2533.4 |
| 7.5°  | 2978.9 | 2900.5 | 2726.8 | 2653.3 | 2611.7 | 2604.4 | 2582.3 | 2565.2 | 2587.2 | 2579.9 | 2560.3 |
| 10°   | 3108.6 | 2971.5 | 2788.0 | 2724.3 | 2655.8 | 2638.6 | 2638.6 | 2646.0 | 2609.3 | 2621.5 | 2601.9 |
| 12.5° | 3253.0 | 3069.4 | 2866.3 | 2792.8 | 2712.1 | 2702.3 | 2697.4 | 2643.5 | 2663.1 | 2653.3 | 2604.4 |
| 15°   | 3436.6 | 3182.0 | 2966.6 | 2841.8 | 2773.3 | 2729.2 | 2665.6 | 2655.8 | 2643.5 | 2619.1 | 2597.0 |
| 17.5° | 3634.9 | 3304.4 | 3013.1 | 2856.5 | 2753.7 | 2721.9 | 2672.9 | 2621.5 | 2584.8 | 2589.7 | 2572.6 |
| 20°   | 3803.8 | 3417.0 | 3030.3 | 2871.2 | 2739.0 | 2677.8 | 2601.9 | 2570.1 | 2530.9 | 2528.5 | 2526.0 |
| 22.5° | 4004.5 | 3568.8 | 3054.8 | 2832.0 | 2694.9 | 2631.3 | 2579.9 | 2523.6 | 2496.7 | 2462.4 | 2479.5 |
| 25°   | 4244.3 | 3627.5 | 3059.6 | 2810.0 | 2663.1 | 2550.5 | 2523.6 | 2462.4 | 2452.6 | 2403.7 | 2413.5 |
| 27.5° | 4418.1 | 3659.3 | 3020.5 | 2741.4 | 2589.7 | 2504.0 | 2455.1 | 2411.0 | 2393.9 | 2357.2 | 2347.4 |
| 30°   | 4650.7 | 3708.3 | 2937.3 | 2655.8 | 2516.3 | 2420.8 | 2391.4 | 2381.6 | 2332.7 | 2293.5 | 2288.6 |
| 32.5° | 4915.0 | 3740.1 | 2883.4 | 2567.7 | 2440.4 | 2366.9 | 2381.6 | 2335.1 | 2273.9 | 2239.7 | 2229.9 |
| 35°   | 5125.5 | 3752.4 | 2748.8 | 2467.3 | 2389.0 | 2342.5 | 2325.3 | 2315.5 | 2227.4 | 2195.6 | 2171.1 |
| 37.5° | 5446.2 | 3725.4 | 2636.2 | 2396.3 | 2332.7 | 2315.5 | 2300.9 | 2234.8 | 2134.4 | 2087.9 | 2053.6 |
| 40°   | 5820.7 | 3718.1 | 2491.8 | 2296.0 | 2278.8 | 2298.4 | 2254.3 | 2151.5 | 2012.0 | 1960.6 | 1936.1 |
| 42.5° | 6180.5 | 3769.5 | 2401.2 | 2242.1 | 2220.1 | 2227.4 | 2166.2 | 2012.0 | 1943.5 | 1914.1 | 1875.0 |
| 45°   | 6782.6 | 3877.2 | 2251.9 | 2158.9 | 2149.1 | 2144.2 | 2070.8 | 1909.2 | 1870.1 | 1833.3 | 1826.0 |
| 47.5° | 7326.0 | 3806.2 | 2156.4 | 2073.2 | 2083.0 | 2056.1 | 1899.4 | 1848.0 | 1804.0 | 1767.3 | 1755.0 |
| 50°   | 7357.8 | 3637.3 | 2021.8 | 2007.1 | 2009.6 | 1963.1 | 1813.8 | 1779.5 | 1723.2 | 1698.7 | 1681.6 |
| 52.5° | 7191.4 | 3360.7 | 1897.0 | 1901.9 | 1909.2 | 1833.3 | 1708.5 | 1684.0 | 1637.5 | 1603.3 | 1593.5 |
| 55°   | 6723.9 | 2929.9 | 1774.6 | 1794.2 | 1813.8 | 1669.3 | 1630.2 | 1569.0 | 1532.3 | 1483.3 | 1485.8 |
| 57.5° | 5923.5 | 2359.6 | 1603.3 | 1635.1 | 1676.7 | 1517.6 | 1488.2 | 1412.3 | 1358.5 | 1319.3 | 1314.4 |
| 60°   | 3970.2 | 1679.1 | 1346.2 | 1358.5 | 1451.5 | 1387.9 | 1385.4 | 1309.5 | 1236.1 | 1201.8 | 1182.2 |
| 62.5° | 2342.5 | 1282.6 | 1162.7 | 1150.4 | 1148.0 | 1184.7 | 1245.9 | 1219.0 | 1123.5 | 1057.4 | 1077.0 |
| 65°   | 1226.3 | 1108.8 | 1081.9 | 1040.3 | 1015.8 | 1006.0 | 1052.5 | 1064.8 | 1001.1 | 930.1  | 925.2  |
| 67.5° | 1030.5 | 1030.5 | 1008.5 | 993.8  | 959.5  | 917.9  | 888.5  | 849.4  | 839.6  | 820.0  | 795.5  |
| 70°   | 937.5  | 962.0  | 954.6  | 920.3  | 891.0  | 844.5  | 768.6  | 704.9  | 643.8  | 621.7  | 636.4  |
| 72.5° | 817.5  | 842.0  | 842.0  | 824.9  | 785.7  | 714.7  | 641.3  | 567.9  | 516.5  | 477.3  | 472.4  |
| 75°   | 629.1  | 641.3  | 670.7  | 651.1  | 599.7  | 555.6  | 479.8  | 403.9  | 354.9  | 318.2  | 310.9  |
| 77.5° | 401.4  | 421.0  | 421.0  | 418.6  | 381.8  | 340.2  | 291.3  | 237.4  | 200.7  | 173.8  | 166.4  |
| 80°   | 266.8  | 279.0  | 288.8  | 279.0  | 254.6  | 222.7  | 186.0  | 149.3  | 122.4  | 100.4  | 95.5   |
| 82.5° | 195.8  | 210.5  | 217.8  | 208.1  | 183.6  | 159.1  | 132.2  | 105.3  | 78.3   | 61.2   | 56.3   |
| 85°   | 75.9   | 78.3   | 88.1   | 105.3  | 102.8  | 100.4  | 80.8   | 58.7   | 44.1   | 31.8   | 29.4   |
| 87.5° | 19.6   | 17.1   | 19.6   | 19.6   | 17.1   | 14.7   | 14.7   | 14.7   | 14.7   | 7.3    | 9.8    |
| 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)