

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: P641220

Luminaire Tested: GWS-SA5F-740-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641220  
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-SA5F-740-U-SL2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

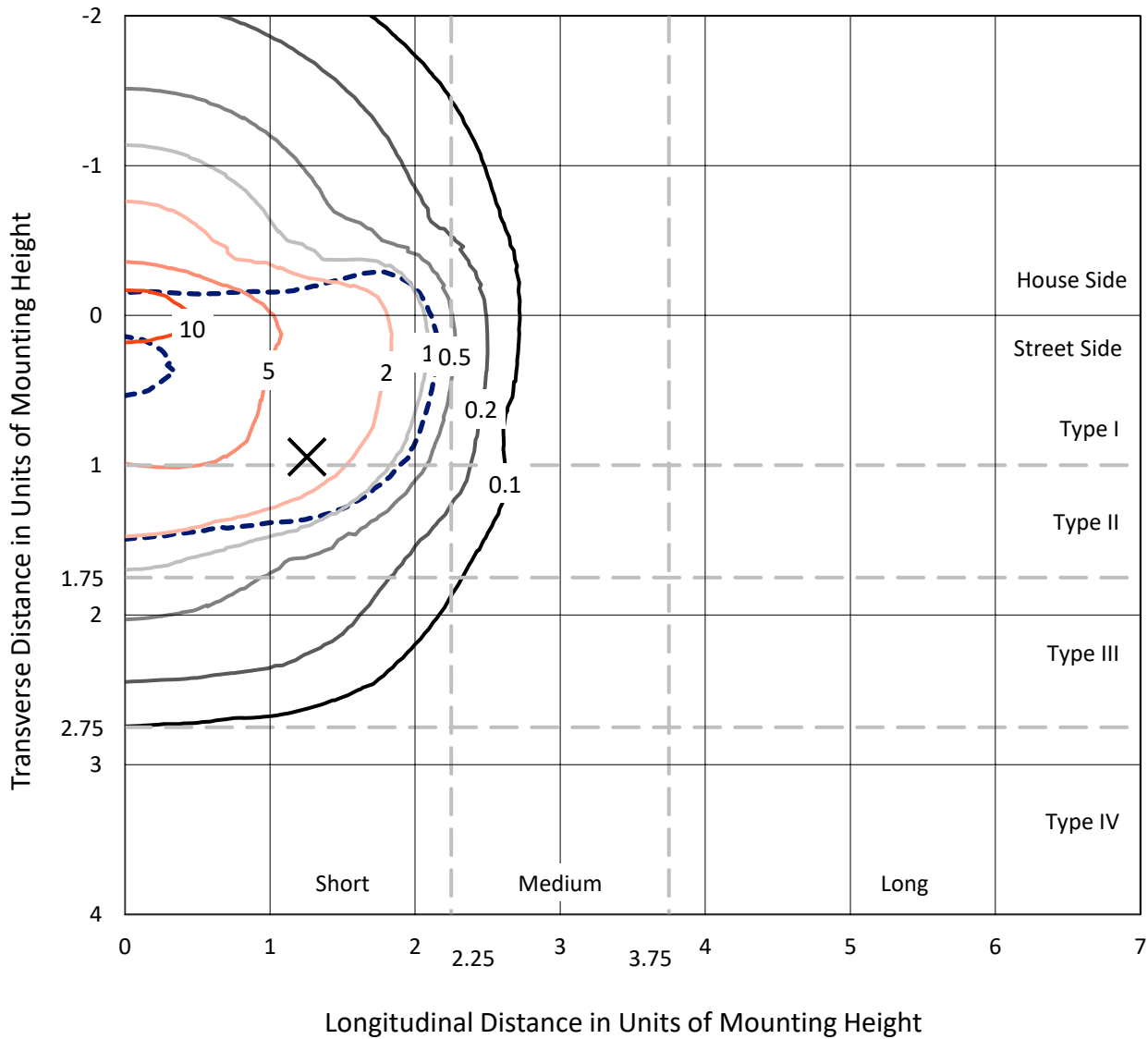
Lumens per Lamp: N/A  
Luminaire Lumens: 35549.2 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P641220  
 CATALOG NUMBER: GWS-SA5F-740-U-SL2-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

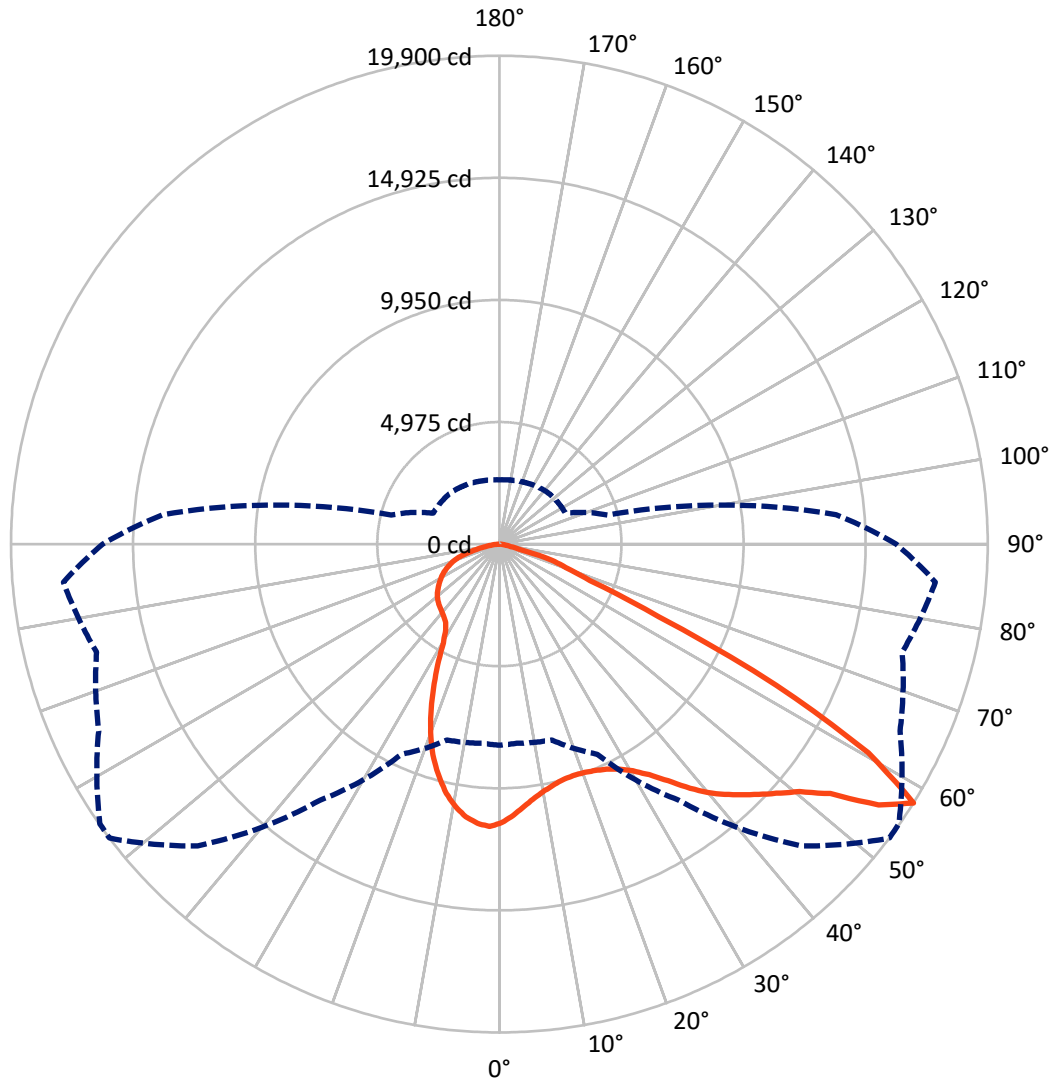
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P641220  
CATALOG NUMBER: GWS-SA5F-740-U-SL2-W-GRSWH

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P641220

CATALOG NUMBER: GWS-SA5F-740-U-SL2-W-GRSWH

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11114.9  | 0.0    | 11114.9 |
|                    | % Fixture | 31.3     | 0.0    | 31.3    |
| <b>Street Side</b> | Lumens    | 24434.3  | 0.0    | 24434.3 |
|                    | % Fixture | 68.7     | 0.0    | 68.7    |
| <b>Total</b>       | Lumens    | 35549.2  | 0.0    | 35549.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1026.5  | 2.9       |
| 10°-20°   | 2693.2  | 7.6       |
| 20°-30°   | 3968.0  | 11.2      |
| 30°-40°   | 5554.2  | 15.6      |
| 40°-50°   | 7301.4  | 20.5      |
| 50°-60°   | 8560.9  | 24.1      |
| 60°-70°   | 5043.3  | 14.2      |
| 70°-80°   | 1254.6  | 3.5       |
| 80°-90°   | 147.2   | 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°    | 35549.2 | 100.0     |
| 0°-180°   | 35549.2 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P641220

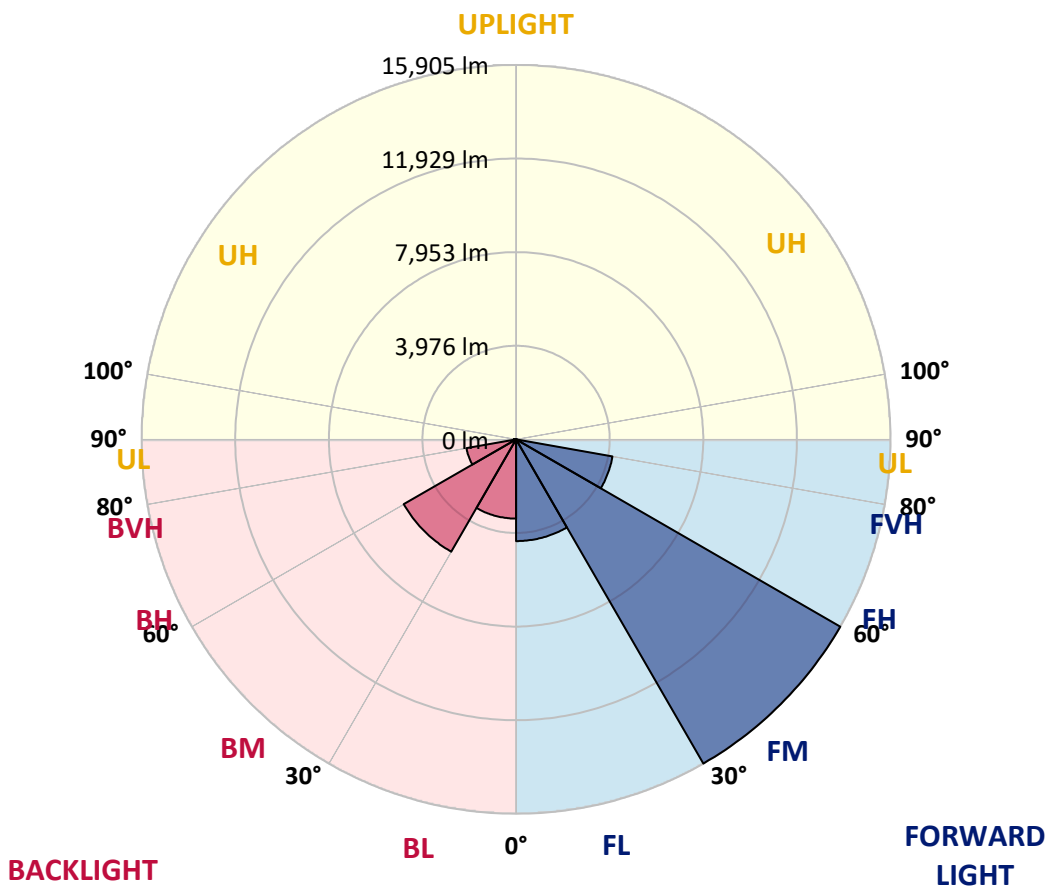
CATALOG NUMBER: GWS-SA5F-740-U-SL2-W-GRSWH

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4322.1  | 12.2      |                         |      |         |
| FM (30°-60°)   | 15905.0 | 44.7      |                         |      |         |
| FH (60°-80°)   | 4157.9  | 11.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 49.3    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 3365.6  | 9.5       | B4/5000                 |      |         |
| BM (30°-60°)   | 5511.3  | 15.5      | B4/8500                 |      |         |
| BH (60°-80°)   | 2140.0  | 6.0       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 97.9    | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G3**

Type II Short





REPORT NUMBER: P641220

CATALOG NUMBER: GWS-SA5F-740-U-SL2-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 53°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11351.8 | 11351.8 | 11351.8 | 11351.8 | 11351.8 | 11351.8 | 11351.8 | 11351.8 | 11351.8 | 11351.8 | 11351.8 |
| 2.5°  | 10699.6 | 10729.5 | 10735.5 | 10828.2 | 10834.2 | 10968.8 | 11058.6 | 11040.6 | 11133.4 | 11247.1 | 11336.9 |
| 5°    | 10187.9 | 10190.9 | 10220.8 | 10331.5 | 10391.4 | 10567.9 | 10717.5 | 10717.5 | 10897.0 | 11130.4 | 11330.9 |
| 7.5°  | 9766.0  | 9763.0  | 9790.0  | 9912.6  | 10011.4 | 10223.8 | 10427.3 | 10451.2 | 10702.5 | 11043.6 | 11369.8 |
| 10°   | 9374.1  | 9395.0  | 9424.9  | 9574.5  | 9700.2  | 9963.5  | 10205.9 | 10244.8 | 10561.9 | 10983.8 | 11423.6 |
| 12.5° | 9122.7  | 9125.7  | 9170.6  | 9338.2  | 9499.7  | 9781.0  | 10035.3 | 10083.2 | 10448.2 | 10926.9 | 11462.5 |
| 15°   | 8961.2  | 8964.2  | 9012.0  | 9197.5  | 9386.0  | 9670.3  | 9930.6  | 9984.5  | 10382.4 | 10918.0 | 11537.3 |
| 17.5° | 8889.4  | 8886.4  | 8931.3  | 9116.8  | 9323.2  | 9619.4  | 9897.7  | 9963.5  | 10412.3 | 10986.8 | 11669.0 |
| 20°   | 8889.4  | 8892.4  | 8916.3  | 9083.8  | 9293.3  | 9607.5  | 9930.6  | 10011.4 | 10529.0 | 11142.4 | 11872.4 |
| 22.5° | 9015.0  | 9027.0  | 9039.0  | 9152.7  | 9317.2  | 9625.4  | 10017.4 | 10125.1 | 10780.3 | 11402.7 | 12138.7 |
| 25°   | 9260.4  | 9263.4  | 9275.3  | 9368.1  | 9442.9  | 9676.3  | 10161.0 | 10322.6 | 11172.3 | 11782.7 | 12473.8 |
| 27.5° | 9589.5  | 9631.4  | 9643.4  | 9703.2  | 9703.2  | 9801.9  | 10385.4 | 10618.8 | 11701.9 | 12330.2 | 12901.7 |
| 30°   | 10050.3 | 10065.2 | 10086.2 | 10152.0 | 10080.2 | 10038.3 | 10714.5 | 11013.7 | 12315.3 | 12991.5 | 13416.3 |
| 32.5° | 10454.2 | 10487.1 | 10600.8 | 10708.5 | 10579.9 | 10448.2 | 11199.2 | 11552.3 | 12904.7 | 13679.6 | 13963.9 |
| 35°   | 10798.3 | 10879.1 | 11097.5 | 11336.9 | 11247.1 | 11115.4 | 11842.5 | 12210.5 | 13389.4 | 14173.3 | 14448.6 |
| 37.5° | 11214.2 | 11277.0 | 11576.2 | 11965.2 | 12046.0 | 11983.1 | 12626.4 | 12889.7 | 13712.5 | 14299.0 | 14711.9 |
| 40°   | 11636.1 | 11731.8 | 12117.8 | 12656.4 | 12964.5 | 13009.4 | 13350.5 | 13527.0 | 13823.2 | 14053.6 | 14661.0 |
| 42.5° | 12066.9 | 12231.5 | 12761.1 | 13389.4 | 13936.9 | 14038.7 | 13960.9 | 14035.7 | 13787.3 | 13715.5 | 14424.7 |
| 45°   | 12593.5 | 12788.0 | 13386.4 | 14188.3 | 14909.4 | 15067.9 | 14559.3 | 14490.5 | 13781.4 | 13586.9 | 14278.0 |
| 47.5° | 13215.9 | 13410.3 | 13981.8 | 14915.3 | 15836.9 | 15953.6 | 15172.7 | 15047.0 | 13990.8 | 13784.4 | 14475.5 |
| 50°   | 13766.4 | 13901.0 | 14412.7 | 15456.9 | 16701.6 | 16770.4 | 15848.9 | 15696.3 | 14511.4 | 14331.9 | 15091.9 |
| 52.5° | 13206.9 | 13191.9 | 13730.5 | 15017.1 | 17150.4 | 17979.2 | 16890.1 | 16743.5 | 15516.7 | 15241.5 | 16046.3 |
| 55°   | 11205.2 | 11034.7 | 11516.4 | 12782.0 | 15896.7 | 19053.3 | 18757.1 | 18463.9 | 16857.2 | 16157.0 | 16941.0 |
| 57.5° | 8192.2  | 8144.3  | 8261.0  | 9448.9  | 12734.1 | 17389.8 | 19900.1 | 19873.2 | 18015.1 | 16994.8 | 17832.6 |
| 60°   | 6406.0  | 6334.2  | 6023.0  | 6055.9  | 8679.9  | 13583.9 | 17270.1 | 18063.0 | 18733.2 | 17497.5 | 18454.9 |
| 62.5° | 5687.9  | 5634.0  | 5472.5  | 5026.6  | 5170.3  | 9107.8  | 12659.3 | 13386.4 | 16369.5 | 15453.9 | 15851.9 |
| 65°   | 4709.5  | 4694.5  | 4829.2  | 4811.2  | 4332.5  | 5029.6  | 7145.0  | 7878.1  | 10292.6 | 10421.3 | 10292.6 |
| 67.5° | 3422.9  | 3396.0  | 3737.1  | 4410.3  | 4170.9  | 3796.9  | 3982.4  | 4236.7  | 5278.0  | 4739.4  | 4266.7  |
| 70°   | 2226.1  | 2187.2  | 2384.7  | 3186.5  | 3734.1  | 3309.2  | 2869.4  | 2827.5  | 2902.3  | 1804.2  | 1950.8  |
| 72.5° | 1493.0  | 1448.1  | 1445.2  | 1753.3  | 2256.0  | 2229.1  | 2223.1  | 2202.1  | 1965.8  | 1424.2  | 1579.8  |
| 75°   | 831.8   | 795.9   | 786.9   | 757.0   | 807.9   | 822.8   | 876.7   | 906.6   | 981.4   | 1080.1  | 1196.8  |
| 77.5° | 140.6   | 137.6   | 173.5   | 221.4   | 305.2   | 392.0   | 484.7   | 511.6   | 631.3   | 748.0   | 822.8   |
| 80°   | 77.8    | 80.8    | 104.7   | 128.7   | 170.5   | 233.4   | 299.2   | 317.2   | 389.0   | 451.8   | 511.6   |
| 82.5° | 41.9    | 41.9    | 53.9    | 68.8    | 92.8    | 122.7   | 161.6   | 176.5   | 224.4   | 263.3   | 305.2   |
| 85°   | 15.0    | 15.0    | 20.9    | 26.9    | 38.9    | 50.9    | 62.8    | 71.8    | 98.7    | 134.6   | 152.6   |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 3.0     | 6.0     | 12.0    | 12.0    | 15.0    | 26.9    | 38.9    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



REPORT NUMBER: P641220

CATALOG NUMBER: GWS-SA5F-740-U-SL2-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11351.8 | 11351.8 | 11351.8 | 11351.8 | 11351.8 | 11351.8 | 11351.8 | 11351.8 | 11351.8 | 11351.8 | 11351.8 |
| 2.5°  | 11411.7 | 11330.9 | 11441.6 | 11492.4 | 11510.4 | 11522.4 | 11444.6 | 11390.7 | 11372.8 | 11315.9 | 11283.0 |
| 5°    | 11453.5 | 11399.7 | 11504.4 | 11504.4 | 11429.6 | 11351.8 | 11193.2 | 11082.5 | 11004.7 | 10912.0 | 10897.0 |
| 7.5°  | 11525.4 | 11486.5 | 11543.3 | 11426.6 | 11238.1 | 11028.7 | 10753.4 | 10538.0 | 10364.4 | 10250.7 | 10253.7 |
| 10°   | 11621.1 | 11573.2 | 11528.4 | 11268.0 | 10924.0 | 10538.0 | 10116.1 | 9801.9  | 9514.7  | 9383.1  | 9311.2  |
| 12.5° | 11683.9 | 11615.1 | 11426.6 | 10995.8 | 10490.1 | 9972.5  | 9377.1  | 8910.3  | 8494.4  | 8305.9  | 8291.0  |
| 15°   | 11761.7 | 11636.1 | 11259.1 | 10642.7 | 9939.6  | 9233.5  | 8467.5  | 7818.2  | 7255.7  | 6962.5  | 6947.5  |
| 17.5° | 11863.5 | 11657.0 | 11058.6 | 10238.8 | 9359.1  | 8317.9  | 7354.4  | 6537.6  | 5939.2  | 5711.8  | 5750.7  |
| 20°   | 12007.1 | 11680.9 | 10831.2 | 9790.0  | 8638.0  | 7276.7  | 6076.8  | 5325.8  | 5095.5  | 5080.5  | 5050.6  |
| 22.5° | 12168.6 | 11695.9 | 10579.9 | 9287.3  | 7764.4  | 6166.6  | 5020.7  | 4700.5  | 4697.5  | 4772.3  | 4790.3  |
| 25°   | 12351.2 | 11707.9 | 10295.6 | 8700.9  | 6818.9  | 5059.5  | 4440.2  | 4344.4  | 4419.3  | 4559.9  | 4577.8  |
| 27.5° | 12584.5 | 11731.8 | 9951.5  | 8057.6  | 5813.5  | 4371.4  | 4120.0  | 4096.1  | 4185.9  | 4317.5  | 4311.5  |
| 30°   | 12928.6 | 11818.6 | 9586.5  | 7318.5  | 4781.3  | 4045.2  | 3925.6  | 3928.6  | 3964.5  | 4027.3  | 4036.3  |
| 32.5° | 13278.7 | 11953.2 | 9230.5  | 6486.8  | 4188.9  | 3859.7  | 3805.9  | 3799.9  | 3799.9  | 3826.8  | 3832.8  |
| 35°   | 13610.8 | 12105.8 | 8844.5  | 5619.1  | 3901.6  | 3752.0  | 3716.1  | 3698.2  | 3689.2  | 3683.2  | 3674.2  |
| 37.5° | 13796.3 | 12180.6 | 8467.5  | 4763.3  | 3749.0  | 3680.2  | 3644.3  | 3620.4  | 3587.5  | 3563.5  | 3557.5  |
| 40°   | 13715.5 | 12093.8 | 8030.6  | 4123.0  | 3656.3  | 3611.4  | 3569.5  | 3536.6  | 3491.7  | 3470.8  | 3458.8  |
| 42.5° | 13446.3 | 11824.6 | 7554.9  | 3820.8  | 3581.5  | 3536.6  | 3485.7  | 3431.9  | 3402.0  | 3384.0  | 3381.0  |
| 45°   | 13162.0 | 11498.4 | 6980.4  | 3644.3  | 3509.7  | 3455.8  | 3396.0  | 3336.1  | 3303.2  | 3294.2  | 3291.2  |
| 47.5° | 13153.0 | 11336.9 | 6370.1  | 3503.7  | 3422.9  | 3369.0  | 3294.2  | 3234.4  | 3198.5  | 3186.5  | 3174.6  |
| 50°   | 13548.0 | 11501.4 | 5681.9  | 3381.0  | 3333.1  | 3276.3  | 3192.5  | 3126.7  | 3081.8  | 3066.8  | 3063.9  |
| 52.5° | 14367.8 | 12120.8 | 5065.5  | 3258.3  | 3213.5  | 3147.6  | 3078.8  | 3013.0  | 2959.1  | 2932.2  | 2929.2  |
| 55°   | 15253.4 | 12907.7 | 4682.6  | 3132.7  | 3072.8  | 3016.0  | 2953.1  | 2881.3  | 2821.5  | 2779.6  | 2773.6  |
| 57.5° | 16169.0 | 13766.4 | 4565.9  | 2974.1  | 2929.2  | 2890.3  | 2815.5  | 2737.7  | 2668.9  | 2630.0  | 2621.0  |
| 60°   | 16923.0 | 14505.4 | 4784.3  | 2806.5  | 2782.6  | 2731.7  | 2662.9  | 2588.1  | 2540.2  | 2510.3  | 2504.3  |
| 62.5° | 14167.3 | 11809.6 | 3862.7  | 2624.0  | 2624.0  | 2570.2  | 2492.4  | 2438.5  | 2405.6  | 2384.7  | 2378.7  |
| 65°   | 8991.1  | 7312.6  | 2636.0  | 2441.5  | 2438.5  | 2366.7  | 2300.9  | 2265.0  | 2250.0  | 2217.1  | 2211.1  |
| 67.5° | 3916.6  | 3342.1  | 2253.0  | 2256.0  | 2244.0  | 2166.2  | 2100.4  | 2073.5  | 2043.6  | 2007.7  | 2004.7  |
| 70°   | 2031.6  | 2070.5  | 2016.6  | 2049.6  | 2028.6  | 1935.9  | 1873.0  | 1831.1  | 1768.3  | 1732.4  | 1735.4  |
| 72.5° | 1639.6  | 1681.5  | 1741.4  | 1792.2  | 1747.4  | 1672.6  | 1573.8  | 1523.0  | 1442.2  | 1403.3  | 1406.3  |
| 75°   | 1250.7  | 1295.6  | 1352.4  | 1406.3  | 1370.4  | 1277.6  | 1214.8  | 1163.9  | 1071.2  | 1026.3  | 1035.2  |
| 77.5° | 861.7   | 885.6   | 954.5   | 951.5   | 939.5   | 912.6   | 819.8   | 760.0   | 664.2   | 610.4   | 616.4   |
| 80°   | 535.6   | 550.5   | 583.4   | 598.4   | 592.4   | 556.5   | 481.7   | 436.8   | 380.0   | 347.1   | 350.1   |
| 82.5° | 323.1   | 332.1   | 362.0   | 365.0   | 362.0   | 335.1   | 278.3   | 245.3   | 209.4   | 191.5   | 191.5   |
| 85°   | 164.6   | 170.5   | 188.5   | 188.5   | 170.5   | 143.6   | 128.7   | 113.7   | 92.8    | 83.8    | 83.8    |
| 87.5° | 44.9    | 44.9    | 56.8    | 47.9    | 38.9    | 35.9    | 18.0    | 15.0    | 6.0     | 3.0     | 3.0     |
| 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)