

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: P641939

Luminaire Tested: GWS-SA6B-830-U-SL3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641939  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6B-830-U-SL3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

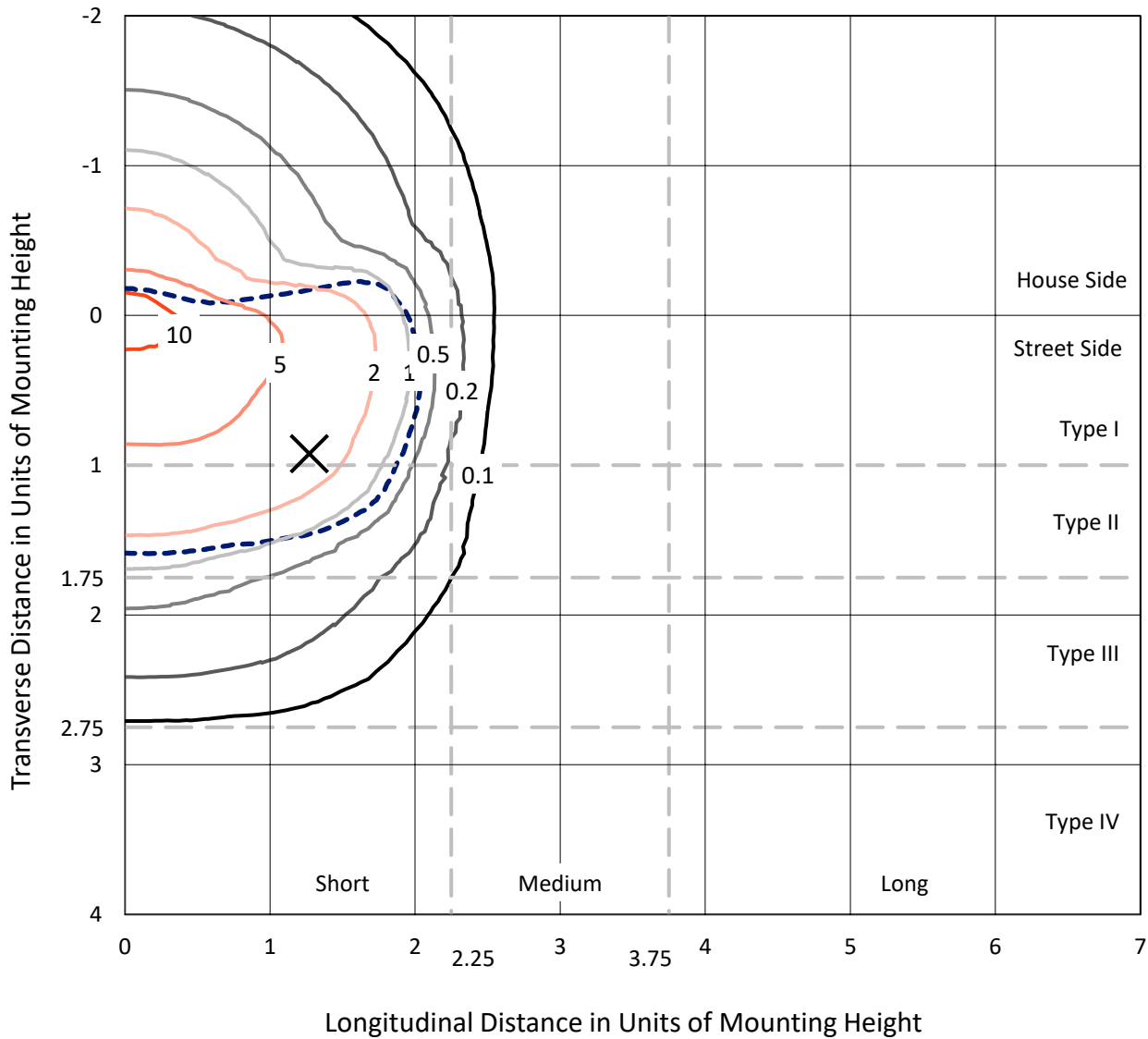
Lumens per Lamp: N/A  
Luminaire Lumens: 14085.3 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

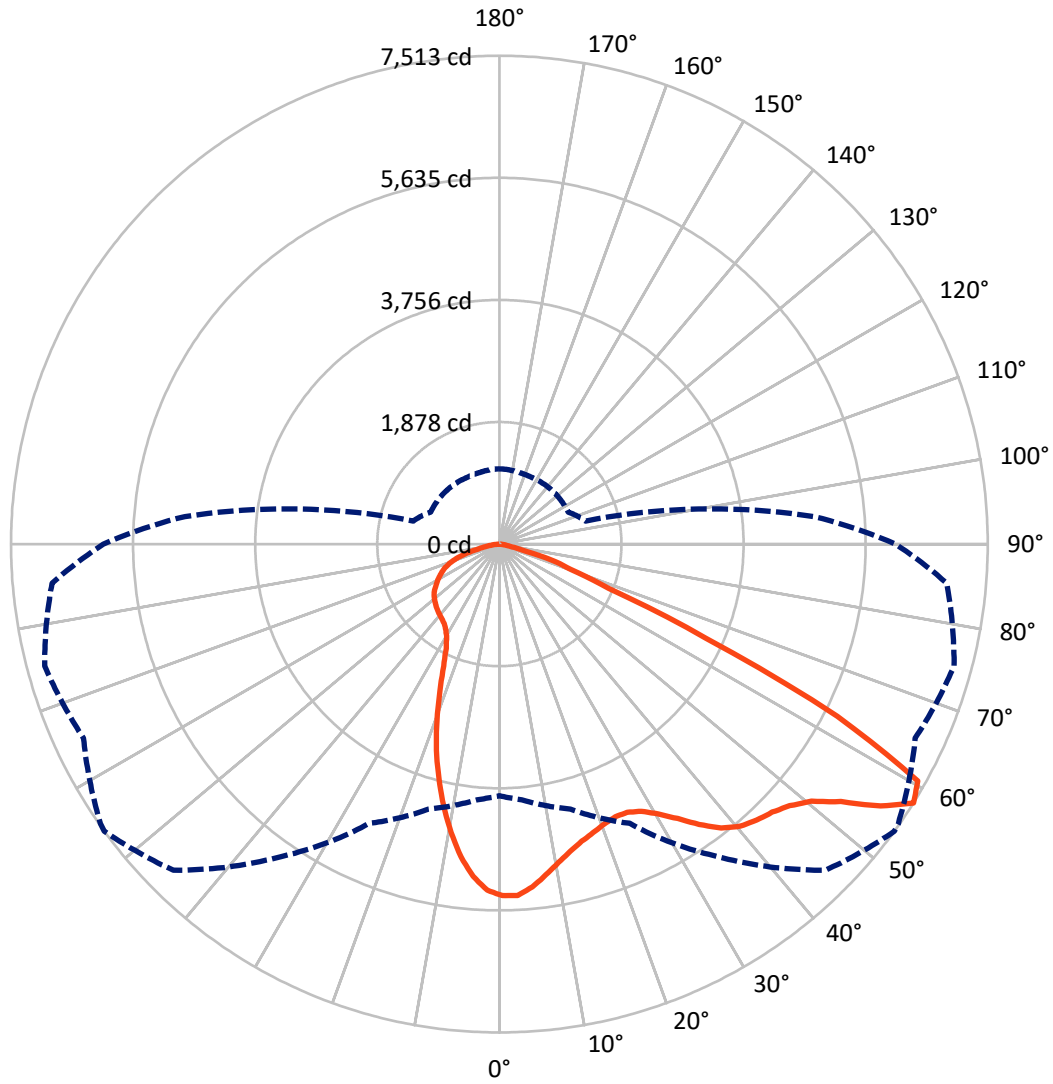
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P641939  
CATALOG NUMBER: GWS-SA6B-830-U-SL3-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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CATALOG NUMBER: GWS-SA6B-830-U-SL3-W-GRSWH

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4094.8   | 0.0    | 4094.8  |
|                    | % Fixture | 29.1     | 0.0    | 29.1    |
| <b>Street Side</b> | Lumens    | 9990.5   | 0.0    | 9990.5  |
|                    | % Fixture | 70.9     | 0.0    | 70.9    |
| <b>Total</b>       | Lumens    | 14085.3  | 0.0    | 14085.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 475.3   | 3.4       |
| 10°-20°   | 1134.2  | 8.1       |
| 20°-30°   | 1569.6  | 11.1      |
| 30°-40°   | 2180.9  | 15.5      |
| 40°-50°   | 2880.3  | 20.4      |
| 50°-60°   | 3422.8  | 24.3      |
| 60°-70°   | 1896.3  | 13.5      |
| 70°-80°   | 472.2   | 3.4       |
| 80°-90°   | 53.7    | 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°    | 14085.3 | 100.0     |
| 0°-180°   | 14085.3 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P641939

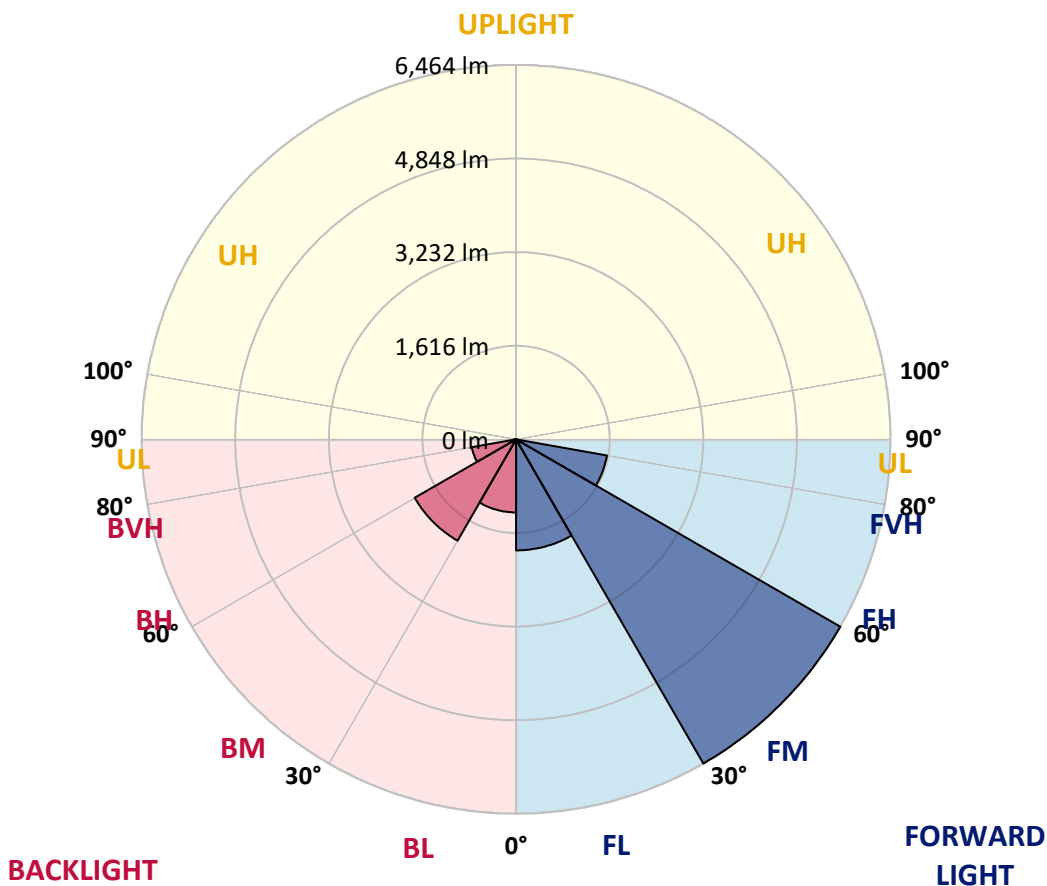
CATALOG NUMBER: GWS-SA6B-830-U-SL3-W-GRSWH

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1917.2 | 13.6      |                         |      |         |
| FM (30°-60°)   | 6464.0 | 45.9      |                         |      |         |
| FH (60°-80°)   | 1592.5 | 11.3      |                         |      | G1/1800 |
| FVH (80°-90°)  | 16.8   | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1261.8 | 9.0       | B3/2500                 |      |         |
| BM (30°-60°)   | 2020.0 | 14.3      | B2/2500                 |      |         |
| BH (60°-80°)   | 776.0  | 5.5       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 36.9   | 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-G2**

Type II Short





REPORT NUMBER: P641939

CATALOG NUMBER: GWS-SA6B-830-U-SL3-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 54°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5407.7 | 5407.7 | 5407.7 | 5407.7 | 5407.7 | 5407.7 | 5407.7 | 5407.7 | 5407.7 | 5407.7 | 5407.7 |
| 2.5°  | 5306.4 | 5317.2 | 5324.5 | 5349.8 | 5371.5 | 5390.8 | 5411.3 | 5411.3 | 5410.1 | 5406.5 | 5399.2 |
| 5°    | 5096.6 | 5108.6 | 5125.5 | 5160.5 | 5207.5 | 5241.3 | 5296.7 | 5301.6 | 5325.7 | 5335.3 | 5330.5 |
| 7.5°  | 4853.0 | 4856.7 | 4878.4 | 4924.2 | 4998.9 | 5059.2 | 5138.8 | 5148.4 | 5206.3 | 5240.1 | 5234.0 |
| 10°   | 4586.6 | 4574.5 | 4613.1 | 4680.6 | 4778.3 | 4879.6 | 4982.0 | 4990.5 | 5083.3 | 5147.2 | 5142.4 |
| 12.5° | 4343.0 | 4344.2 | 4382.8 | 4464.8 | 4586.6 | 4712.0 | 4849.4 | 4868.7 | 4983.3 | 5065.2 | 5056.8 |
| 15°   | 4139.2 | 4144.1 | 4191.1 | 4283.9 | 4422.6 | 4572.1 | 4743.3 | 4761.4 | 4906.1 | 5014.6 | 4990.5 |
| 17.5° | 3976.5 | 3981.3 | 4022.3 | 4128.4 | 4276.7 | 4457.6 | 4666.1 | 4684.2 | 4863.9 | 4992.9 | 4943.5 |
| 20°   | 3864.3 | 3861.9 | 3901.7 | 4003.0 | 4156.1 | 4352.7 | 4598.6 | 4625.2 | 4850.6 | 5001.3 | 4912.1 |
| 22.5° | 3818.5 | 3817.3 | 3846.3 | 3929.5 | 4072.9 | 4271.9 | 4557.6 | 4593.8 | 4865.1 | 5038.7 | 4892.8 |
| 25°   | 3841.4 | 3836.6 | 3861.9 | 3923.4 | 4038.0 | 4240.5 | 4569.7 | 4608.3 | 4926.6 | 5115.9 | 4896.4 |
| 27.5° | 3912.6 | 3906.5 | 3928.2 | 3983.7 | 4070.5 | 4273.1 | 4654.1 | 4698.7 | 5056.8 | 5257.0 | 4944.7 |
| 30°   | 4021.1 | 4017.5 | 4039.2 | 4092.2 | 4168.2 | 4381.6 | 4815.7 | 4866.3 | 5258.2 | 5476.4 | 5049.6 |
| 32.5° | 4147.7 | 4141.7 | 4180.2 | 4241.7 | 4329.8 | 4579.3 | 5032.7 | 5099.0 | 5496.9 | 5758.5 | 5225.6 |
| 35°   | 4290.0 | 4285.1 | 4338.2 | 4427.4 | 4554.0 | 4854.2 | 5295.5 | 5367.9 | 5740.4 | 6078.0 | 5459.5 |
| 37.5° | 4428.6 | 4428.6 | 4531.1 | 4663.7 | 4822.9 | 5153.3 | 5542.7 | 5588.5 | 5909.2 | 6361.4 | 5710.3 |
| 40°   | 4551.6 | 4558.8 | 4713.2 | 4912.1 | 5114.7 | 5423.3 | 5705.5 | 5744.1 | 5984.0 | 6556.7 | 5928.5 |
| 42.5° | 4687.9 | 4693.9 | 4873.5 | 5134.0 | 5375.1 | 5641.6 | 5804.3 | 5823.6 | 5998.5 | 6654.4 | 6082.9 |
| 45°   | 4796.4 | 4804.8 | 5027.9 | 5306.4 | 5601.8 | 5805.6 | 5882.7 | 5899.6 | 6019.0 | 6707.4 | 6195.0 |
| 47.5° | 4853.0 | 4865.1 | 5120.7 | 5445.0 | 5754.9 | 5952.7 | 6011.7 | 6019.0 | 6103.4 | 6800.3 | 6330.0 |
| 50°   | 4843.4 | 4867.5 | 5155.7 | 5513.8 | 5868.3 | 6101.0 | 6219.1 | 6231.2 | 6275.8 | 6936.5 | 6488.0 |
| 52.5° | 4929.0 | 4939.8 | 5230.4 | 5595.8 | 6029.8 | 6374.7 | 6579.6 | 6596.5 | 6576.0 | 7039.0 | 6582.0 |
| 55°   | 4786.7 | 4838.6 | 5137.6 | 5583.7 | 6275.8 | 6797.9 | 7113.8 | 7105.3 | 6848.5 | 7153.6 | 6738.8 |
| 57.5° | 3871.6 | 3947.5 | 4221.2 | 4739.7 | 5870.7 | 7094.5 | 7512.9 | 7492.4 | 7059.5 | 7241.6 | 6908.8 |
| 60°   | 2680.3 | 2692.4 | 2939.6 | 3307.3 | 4531.1 | 6267.3 | 7395.9 | 7440.5 | 7098.1 | 7130.6 | 6594.1 |
| 62.5° | 2143.8 | 2140.2 | 2163.1 | 2172.7 | 2881.7 | 4405.7 | 5838.1 | 6000.9 | 5897.2 | 5556.0 | 4673.4 |
| 65°   | 1830.3 | 1843.6 | 1911.1 | 1876.1 | 1880.9 | 2481.4 | 3488.2 | 3511.1 | 3438.7 | 3315.7 | 2471.7 |
| 67.5° | 1432.4 | 1455.3 | 1574.7 | 1710.9 | 1667.5 | 1597.6 | 1809.8 | 1798.9 | 1417.9 | 1097.2 | 906.7  |
| 70°   | 897.1  | 911.5  | 1039.3 | 1343.2 | 1451.7 | 1311.8 | 1163.5 | 1158.7 | 759.6  | 624.6  | 684.9  |
| 72.5° | 523.3  | 525.7  | 561.9  | 748.8  | 963.4  | 897.1  | 856.1  | 824.7  | 488.3  | 498.0  | 546.2  |
| 75°   | 288.2  | 288.2  | 287.0  | 323.1  | 379.8  | 336.4  | 325.5  | 317.1  | 326.8  | 370.2  | 406.3  |
| 77.5° | 60.3   | 61.5   | 65.1   | 85.6   | 110.9  | 135.0  | 170.0  | 171.2  | 213.4  | 247.2  | 276.1  |
| 80°   | 27.7   | 28.9   | 36.2   | 45.8   | 59.1   | 78.4   | 103.7  | 104.9  | 129.0  | 155.5  | 174.8  |
| 82.5° | 14.5   | 15.7   | 19.3   | 24.1   | 31.3   | 41.0   | 57.9   | 57.9   | 77.2   | 91.6   | 103.7  |
| 85°   | 4.8    | 4.8    | 7.2    | 9.6    | 13.3   | 16.9   | 22.9   | 22.9   | 33.8   | 44.6   | 51.8   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 2.4    | 4.8    | 4.8    | 6.0    | 7.2    | 12.1   |
| 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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CATALOG NUMBER: GWS-SA6B-830-U-SL3-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5407.7 | 5407.7 | 5407.7 | 5407.7 | 5407.7 | 5407.7 | 5407.7 | 5407.7 | 5407.7 | 5407.7 | 5407.7 |
| 2.5°  | 5383.6 | 5346.2 | 5347.4 | 5354.6 | 5331.7 | 5296.7 | 5273.8 | 5244.9 | 5226.8 | 5223.2 | 5236.5 |
| 5°    | 5306.4 | 5263.0 | 5232.8 | 5201.5 | 5136.4 | 5059.2 | 4998.9 | 4949.5 | 4916.9 | 4904.9 | 4890.4 |
| 7.5°  | 5200.3 | 5143.6 | 5067.7 | 4979.6 | 4861.5 | 4724.0 | 4627.6 | 4537.1 | 4474.4 | 4456.4 | 4447.9 |
| 10°   | 5094.2 | 5012.2 | 4877.1 | 4713.2 | 4516.6 | 4331.0 | 4156.1 | 4022.3 | 3916.2 | 3855.9 | 3875.2 |
| 12.5° | 4984.5 | 4883.2 | 4672.2 | 4420.2 | 4146.5 | 3866.8 | 3637.7 | 3415.8 | 3244.6 | 3159.0 | 3133.7 |
| 15°   | 4888.0 | 4750.5 | 4456.4 | 4115.1 | 3751.0 | 3398.9 | 3067.4 | 2734.6 | 2517.5 | 2399.4 | 2366.8 |
| 17.5° | 4806.0 | 4627.6 | 4228.5 | 3804.1 | 3368.8 | 2867.2 | 2459.7 | 2151.0 | 2002.7 | 1937.6 | 1932.8 |
| 20°   | 4725.2 | 4507.0 | 4003.0 | 3468.9 | 2927.5 | 2365.6 | 2001.5 | 1856.8 | 1803.8 | 1780.9 | 1779.6 |
| 22.5° | 4652.9 | 4380.4 | 3765.5 | 3133.7 | 2488.6 | 1988.2 | 1788.1 | 1725.4 | 1710.9 | 1710.9 | 1708.5 |
| 25°   | 4591.4 | 4253.8 | 3521.9 | 2778.0 | 2091.9 | 1770.0 | 1677.2 | 1650.6 | 1656.7 | 1667.5 | 1668.7 |
| 27.5° | 4566.1 | 4154.9 | 3286.8 | 2412.7 | 1818.2 | 1643.4 | 1601.2 | 1597.6 | 1614.5 | 1631.3 | 1633.8 |
| 30°   | 4592.6 | 4087.4 | 3045.7 | 2063.0 | 1654.3 | 1566.2 | 1546.9 | 1554.2 | 1574.7 | 1591.6 | 1591.6 |
| 32.5° | 4674.6 | 4053.6 | 2799.7 | 1807.4 | 1559.0 | 1512.0 | 1505.9 | 1513.2 | 1528.9 | 1538.5 | 1539.7 |
| 35°   | 4813.2 | 4066.9 | 2545.3 | 1635.0 | 1497.5 | 1472.2 | 1471.0 | 1475.8 | 1481.8 | 1487.9 | 1489.1 |
| 37.5° | 4988.1 | 4126.0 | 2272.8 | 1534.9 | 1457.7 | 1443.3 | 1440.8 | 1439.6 | 1440.8 | 1440.8 | 1442.0 |
| 40°   | 5159.3 | 4215.2 | 2029.2 | 1475.8 | 1430.0 | 1417.9 | 1411.9 | 1403.5 | 1402.3 | 1399.8 | 1398.6 |
| 42.5° | 5285.9 | 4283.9 | 1835.1 | 1433.6 | 1404.7 | 1390.2 | 1383.0 | 1369.7 | 1368.5 | 1367.3 | 1366.1 |
| 45°   | 5381.1 | 4341.8 | 1673.5 | 1392.6 | 1378.1 | 1364.9 | 1349.2 | 1337.1 | 1339.6 | 1342.0 | 1342.0 |
| 47.5° | 5488.4 | 4392.4 | 1555.4 | 1354.0 | 1345.6 | 1332.3 | 1313.0 | 1304.6 | 1313.0 | 1321.5 | 1321.5 |
| 50°   | 5618.7 | 4463.6 | 1458.9 | 1315.4 | 1311.8 | 1296.2 | 1279.3 | 1275.7 | 1285.3 | 1297.4 | 1297.4 |
| 52.5° | 5713.9 | 4525.1 | 1390.2 | 1276.9 | 1276.9 | 1256.4 | 1241.9 | 1240.7 | 1251.5 | 1263.6 | 1264.8 |
| 55°   | 5892.4 | 4668.6 | 1366.1 | 1232.2 | 1227.4 | 1211.8 | 1200.9 | 1192.5 | 1205.7 | 1216.6 | 1216.6 |
| 57.5° | 6093.7 | 4859.1 | 1372.1 | 1168.3 | 1162.3 | 1157.5 | 1149.1 | 1139.4 | 1143.0 | 1155.1 | 1156.3 |
| 60°   | 5666.9 | 4490.1 | 1305.8 | 1104.4 | 1100.8 | 1098.4 | 1087.6 | 1070.7 | 1075.5 | 1085.2 | 1086.4 |
| 62.5° | 3958.4 | 2984.2 | 1056.2 | 1024.9 | 1036.9 | 1035.7 | 1021.2 | 1002.0 | 1003.2 | 1016.4 | 1016.4 |
| 65°   | 2054.6 | 1614.5 | 927.2  | 952.5  | 970.6  | 963.4  | 939.3  | 922.4  | 920.0  | 936.8  | 933.2  |
| 67.5° | 886.2  | 881.4  | 844.0  | 876.6  | 895.9  | 880.2  | 854.9  | 827.1  | 829.5  | 835.6  | 830.7  |
| 70°   | 713.8  | 735.5  | 751.2  | 786.1  | 801.8  | 772.9  | 745.1  | 729.5  | 716.2  | 715.0  | 706.6  |
| 72.5° | 570.3  | 600.4  | 635.4  | 671.6  | 676.4  | 647.5  | 612.5  | 598.0  | 577.5  | 576.3  | 567.9  |
| 75°   | 429.2  | 454.6  | 482.3  | 511.2  | 511.2  | 483.5  | 460.6  | 453.4  | 429.2  | 422.0  | 414.8  |
| 77.5° | 293.0  | 308.7  | 330.4  | 337.6  | 344.8  | 334.0  | 311.1  | 299.0  | 271.3  | 264.1  | 254.4  |
| 80°   | 184.5  | 195.3  | 208.6  | 213.4  | 220.6  | 207.4  | 189.3  | 176.0  | 156.7  | 150.7  | 145.9  |
| 82.5° | 110.9  | 118.2  | 126.6  | 129.0  | 135.0  | 125.4  | 108.5  | 98.9   | 88.0   | 83.2   | 79.6   |
| 85°   | 56.7   | 60.3   | 65.1   | 66.3   | 65.1   | 55.5   | 49.4   | 44.6   | 37.4   | 36.2   | 33.8   |
| 87.5° | 14.5   | 16.9   | 18.1   | 16.9   | 15.7   | 12.1   | 8.4    | 6.0    | 2.4    | 2.4    | 1.2    |
| 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)