

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: P642590

Luminaire Tested: GWS-SA6D-730-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-730-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33217.2 lumens
Efficiency: N/A
Efficacy: 135.2 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

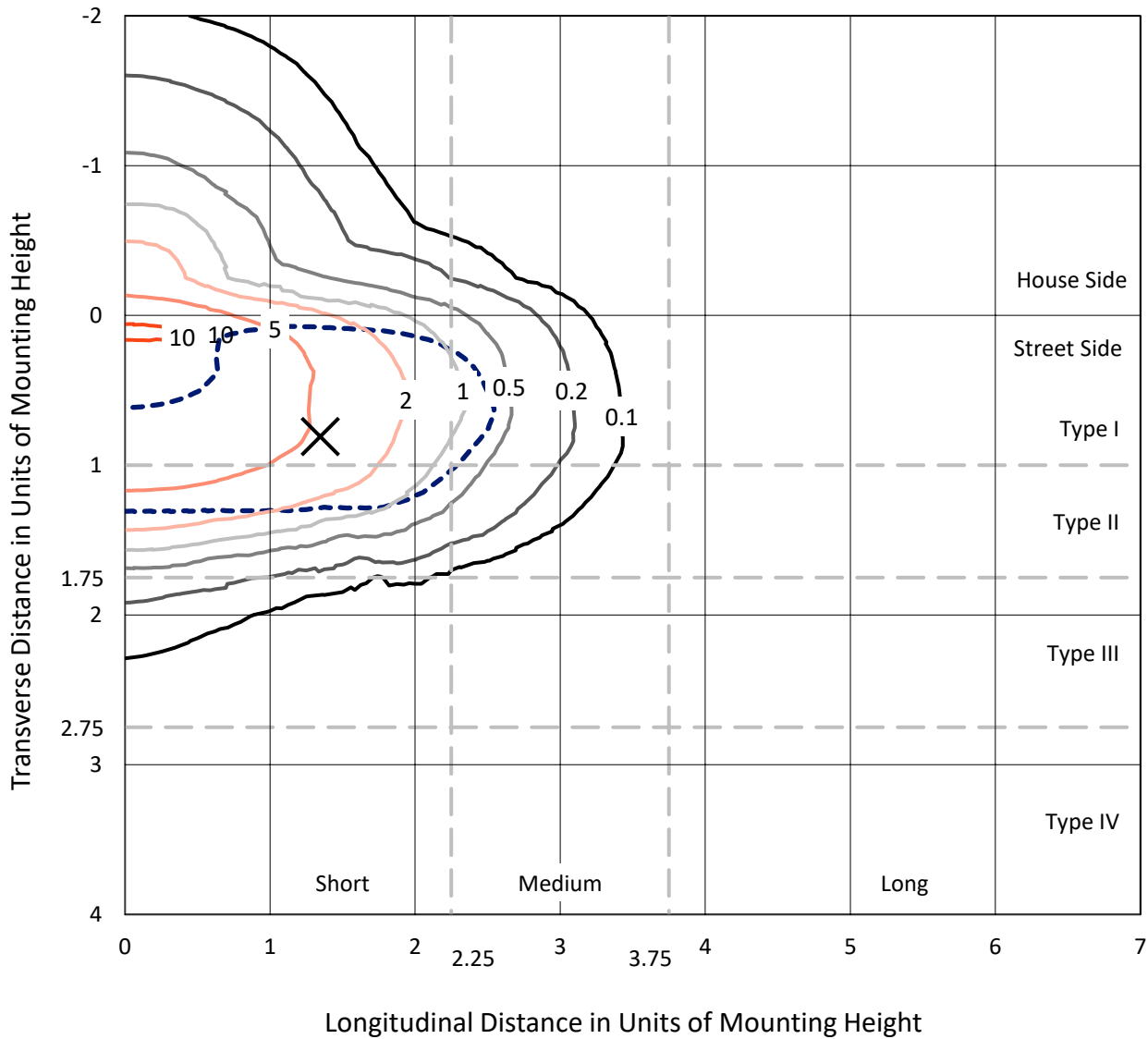


REPORT NUMBER: P642590

CATALOG NUMBER: GWS-SA6D-730-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination

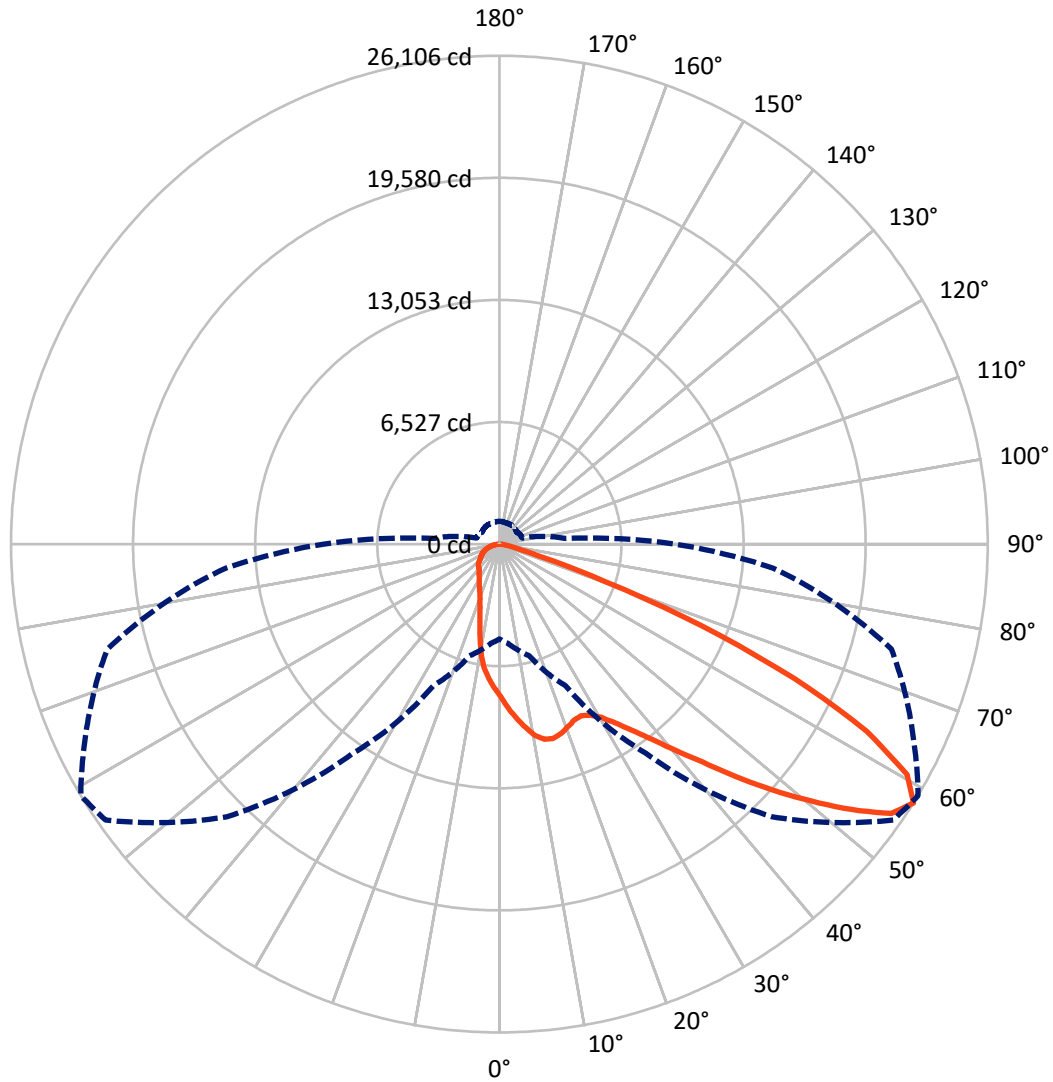
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

REPORT NUMBER: P642590
CATALOG NUMBER: GWS-SA6D-730-U-AFL-W

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P642590

CATALOG NUMBER: GWS-SA6D-730-U-AFL-W

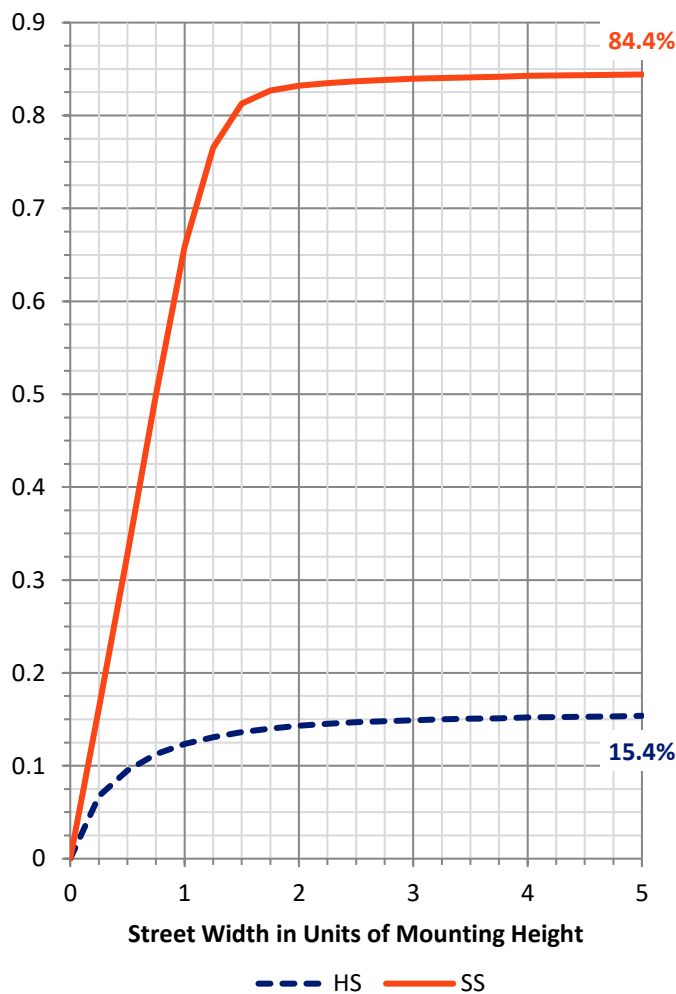
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5155.1 | 0.0 | 5155.1 |
| | % Fixture | 15.5 | 0.0 | 15.5 |
| Street Side | Lumens | 28062.1 | 0.0 | 28062.1 |
| | % Fixture | 84.5 | 0.0 | 84.5 |
| Total | Lumens | 33217.2 | 0.0 | 33217.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 757.1 | 2.3 |
| 10°-20° | 1918.6 | 5.8 |
| 20°-30° | 3110.0 | 9.4 |
| 30°-40° | 5002.9 | 15.1 |
| 40°-50° | 7769.0 | 23.4 |
| 50°-60° | 8368.2 | 25.2 |
| 60°-70° | 4856.6 | 14.6 |
| 70°-80° | 1267.8 | 3.8 |
| 80°-90° | 167.0 | 0.5 |
| 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° | 33217.2 | 100.0 |
| 0°-180° | 33217.2 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P642590

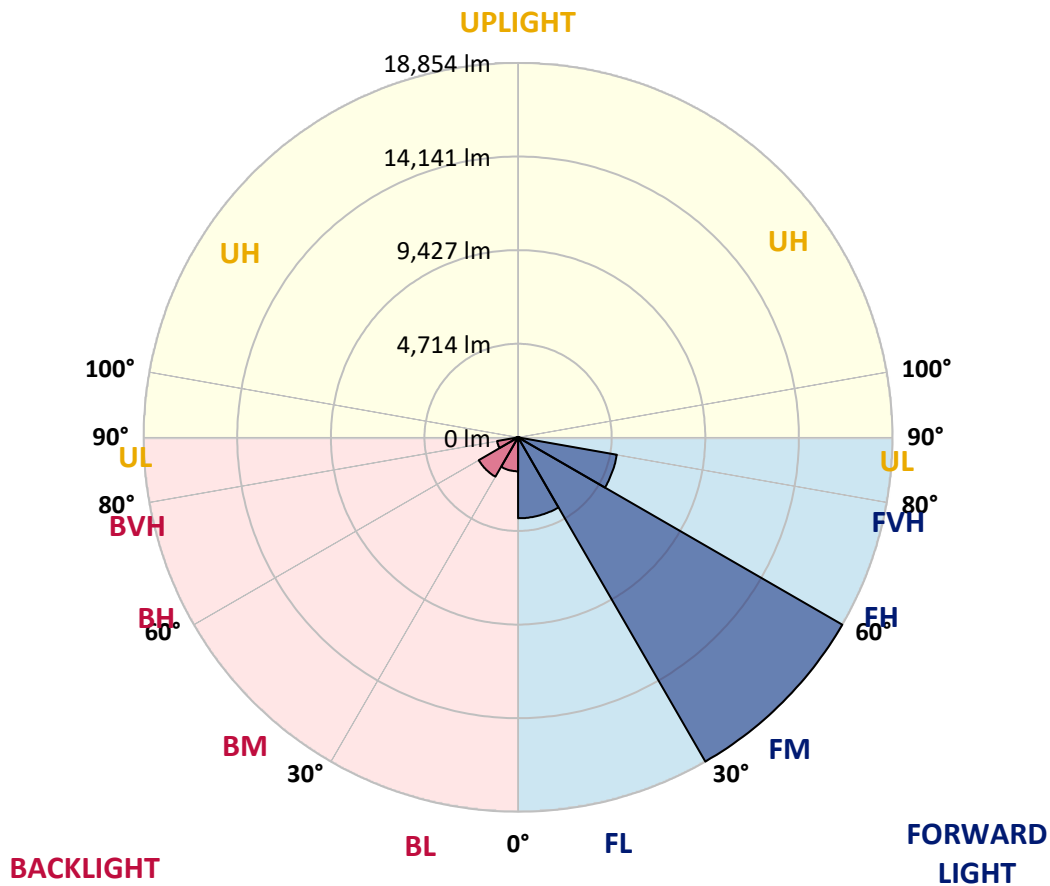
CATALOG NUMBER: GWS-SA6D-730-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4075.4 | 12.3 | | | |
| FM (30°-60°) | 18854.5 | 56.8 | | | |
| FH (60°-80°) | 5052.2 | 15.2 | | | G3/7500 |
| FVH (80°-90°) | 80.0 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1710.3 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2285.6 | 6.9 | B2/2500 | | |
| BH (60°-80°) | 1072.2 | 3.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 87.1 | 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





REPORT NUMBER: P642590

CATALOG NUMBER: GWS-SA6D-730-U-AFL-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8154.2 | 8154.2 | 8154.2 | 8154.2 | 8154.2 | 8154.2 | 8154.2 | 8154.2 | 8154.2 | 8154.2 | 8154.2 |
| 2.5° | 9248.6 | 9171.4 | 9225.2 | 9129.3 | 9089.5 | 8984.3 | 8848.7 | 8757.5 | 8617.2 | 8434.8 | 8275.8 |
| 5° | 10167.6 | 10113.8 | 10125.5 | 10022.6 | 9931.4 | 9756.0 | 9477.7 | 9323.4 | 9084.9 | 8717.7 | 8376.3 |
| 7.5° | 10139.5 | 10202.6 | 10237.7 | 10326.6 | 10352.3 | 10335.9 | 10085.7 | 9870.6 | 9608.7 | 9056.8 | 8542.3 |
| 10° | 9089.5 | 9208.8 | 9316.4 | 9620.4 | 9989.8 | 10457.5 | 10516.0 | 10387.4 | 10123.1 | 9489.4 | 8741.1 |
| 12.5° | 7946.0 | 8037.2 | 8133.1 | 8497.9 | 9063.8 | 9999.2 | 10632.9 | 10712.4 | 10607.2 | 9917.3 | 8965.6 |
| 15° | 7384.8 | 7426.9 | 7518.1 | 7759.0 | 8210.3 | 9248.6 | 10429.5 | 10777.9 | 10967.3 | 10371.0 | 9218.2 |
| 17.5° | 7361.4 | 7380.1 | 7424.6 | 7553.2 | 7866.5 | 8668.6 | 10062.3 | 10646.9 | 11250.3 | 10850.4 | 9512.8 |
| 20° | 7845.5 | 7796.4 | 7768.3 | 7766.0 | 7920.3 | 8474.5 | 9706.9 | 10436.5 | 11383.6 | 11341.5 | 9828.5 |
| 22.5° | 8516.6 | 8533.0 | 8472.2 | 8322.5 | 8303.8 | 8612.5 | 9529.2 | 10223.7 | 11423.3 | 11776.4 | 10120.8 |
| 25° | 9468.4 | 9550.2 | 9370.1 | 9084.9 | 8944.6 | 9012.4 | 9639.1 | 10158.2 | 11418.6 | 12138.9 | 10303.2 |
| 27.5° | 10579.1 | 10642.3 | 10459.9 | 10085.7 | 9795.7 | 9632.1 | 9966.5 | 10352.3 | 11458.4 | 12452.2 | 10413.1 |
| 30° | 11844.2 | 11865.3 | 11615.1 | 11222.2 | 10798.9 | 10448.2 | 10511.3 | 10752.2 | 11661.8 | 12863.8 | 10541.7 |
| 32.5° | 13389.9 | 13478.8 | 13100.0 | 12477.9 | 11886.3 | 11437.3 | 11243.2 | 11397.6 | 12101.5 | 13350.2 | 10740.5 |
| 35° | 15351.9 | 15382.3 | 14900.6 | 14009.6 | 13172.5 | 12550.4 | 12143.5 | 12225.4 | 12770.2 | 14030.7 | 11039.8 |
| 37.5° | 17201.6 | 17232.0 | 16719.9 | 15892.1 | 14694.8 | 13843.6 | 13254.3 | 13216.9 | 13626.1 | 14991.8 | 11528.5 |
| 40° | 18375.5 | 18462.0 | 18232.9 | 17713.7 | 16570.2 | 15422.0 | 14622.3 | 14493.7 | 14748.6 | 16168.0 | 12209.0 |
| 42.5° | 19006.9 | 19044.3 | 19039.6 | 19107.4 | 18426.9 | 17285.8 | 16165.7 | 15908.4 | 16079.1 | 17437.8 | 12896.5 |
| 45° | 19011.6 | 19105.1 | 19355.3 | 20007.7 | 20038.1 | 19327.2 | 18115.9 | 17713.7 | 17557.0 | 18716.9 | 13614.4 |
| 47.5° | 18160.4 | 18260.9 | 18948.4 | 20232.2 | 21179.3 | 21340.7 | 20452.0 | 19645.3 | 18985.8 | 19818.3 | 14203.7 |
| 50° | 15583.4 | 15836.0 | 17145.5 | 19416.1 | 21403.8 | 22954.2 | 22680.6 | 21586.2 | 20255.6 | 20669.5 | 14573.2 |
| 52.5° | 13345.5 | 13336.2 | 14142.9 | 17110.4 | 20466.1 | 23665.1 | 24836.6 | 23583.2 | 21511.4 | 21209.7 | 14666.7 |
| 55° | 9772.4 | 9826.1 | 10651.6 | 13085.9 | 17963.9 | 22977.6 | 26022.2 | 25421.2 | 22951.8 | 21497.3 | 14629.3 |
| 57.5° | 5067.4 | 5334.0 | 6180.5 | 8350.6 | 13649.5 | 20611.1 | 25706.5 | 26106.4 | 24415.7 | 21700.8 | 14678.4 |
| 60° | 2560.6 | 2509.2 | 2813.1 | 3987.0 | 7908.6 | 16097.9 | 23760.9 | 25035.4 | 24680.0 | 21859.8 | 14708.8 |
| 62.5° | 1709.4 | 1695.4 | 1611.2 | 1847.4 | 3231.7 | 9533.8 | 20255.6 | 22042.2 | 22844.3 | 21485.6 | 14320.6 |
| 65° | 1480.2 | 1452.2 | 1297.8 | 1288.5 | 1569.1 | 3954.3 | 14846.8 | 17327.9 | 18880.6 | 19823.0 | 13392.3 |
| 67.5° | 1332.9 | 1290.8 | 1134.1 | 1057.0 | 1127.1 | 1737.5 | 8367.0 | 11622.1 | 13941.8 | 16764.3 | 11357.8 |
| 70° | 1190.3 | 1169.2 | 1012.5 | 900.3 | 893.3 | 1059.3 | 3082.1 | 5998.1 | 8530.6 | 11437.3 | 8303.8 |
| 72.5° | 1066.3 | 1028.9 | 895.6 | 788.1 | 734.3 | 750.6 | 1337.6 | 2310.4 | 4415.0 | 7134.6 | 4966.9 |
| 75° | 923.7 | 895.6 | 778.7 | 671.1 | 605.7 | 549.5 | 816.1 | 1068.7 | 2013.4 | 3390.7 | 2345.5 |
| 77.5° | 713.2 | 694.5 | 615.0 | 533.2 | 495.8 | 409.2 | 495.8 | 673.5 | 930.7 | 1428.8 | 1220.7 |
| 80° | 413.9 | 425.6 | 458.3 | 416.2 | 364.8 | 292.3 | 322.7 | 388.2 | 558.9 | 774.0 | 692.2 |
| 82.5° | 208.1 | 222.2 | 297.0 | 240.9 | 217.5 | 170.7 | 191.8 | 229.2 | 292.3 | 427.9 | 271.3 |
| 85° | 16.4 | 16.4 | 53.8 | 60.8 | 74.8 | 60.8 | 77.2 | 93.5 | 133.3 | 170.7 | 91.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 | 11.7 | 21.0 | 39.8 | 25.7 |
| 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: P642590
 CATALOG NUMBER: GWS-SA6D-730-U-AFL-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8154.2 | 8154.2 | 8154.2 | 8154.2 | 8154.2 | 8154.2 | 8154.2 | 8154.2 | 8154.2 | 8154.2 | 8154.2 |
| 2.5° | 8168.2 | 8048.9 | 7906.3 | 7789.4 | 7609.3 | 7513.4 | 7391.8 | 7242.2 | 7181.4 | 7153.3 | 7136.9 |
| 5° | 8184.6 | 7974.1 | 7670.1 | 7389.5 | 7078.5 | 6832.9 | 6559.3 | 6274.0 | 6110.4 | 6070.6 | 6042.5 |
| 7.5° | 8245.4 | 7950.7 | 7466.7 | 7003.6 | 6426.0 | 5890.5 | 5369.1 | 4852.3 | 4588.0 | 4487.5 | 4478.1 |
| 10° | 8329.5 | 7941.4 | 7260.9 | 6491.5 | 5516.4 | 4669.9 | 4059.5 | 3655.0 | 3484.3 | 3428.2 | 3409.5 |
| 12.5° | 8434.8 | 7934.3 | 6989.6 | 5780.6 | 4466.4 | 3666.7 | 3318.3 | 3252.8 | 3276.2 | 3271.5 | 3271.5 |
| 15° | 8568.1 | 7943.7 | 6662.2 | 4976.2 | 3612.9 | 3182.6 | 3189.6 | 3266.8 | 3339.3 | 3351.0 | 3351.0 |
| 17.5° | 8713.0 | 7934.3 | 6187.5 | 4169.4 | 3100.8 | 3068.0 | 3175.6 | 3283.2 | 3348.7 | 3358.0 | 3358.0 |
| 20° | 8869.7 | 7889.9 | 5588.9 | 3409.5 | 2876.3 | 2995.5 | 3112.5 | 3196.7 | 3236.4 | 3245.8 | 3245.8 |
| 22.5° | 8963.3 | 7763.6 | 4938.8 | 2885.6 | 2733.6 | 2881.0 | 2958.1 | 3044.7 | 3049.3 | 2974.5 | 2972.2 |
| 25° | 8949.2 | 7527.5 | 4197.5 | 2548.9 | 2581.6 | 2710.3 | 2808.5 | 2747.7 | 2672.8 | 2630.8 | 2623.7 |
| 27.5° | 8860.4 | 7172.0 | 3442.2 | 2294.0 | 2401.6 | 2546.6 | 2516.2 | 2464.7 | 2446.0 | 2399.2 | 2394.6 |
| 30° | 8748.1 | 6734.7 | 2764.0 | 2095.2 | 2214.5 | 2347.8 | 2301.0 | 2296.4 | 2277.6 | 2226.2 | 2226.2 |
| 32.5° | 8640.6 | 6283.4 | 2251.9 | 1947.9 | 2095.2 | 2104.6 | 2170.1 | 2174.8 | 2165.4 | 2076.5 | 2067.2 |
| 35° | 8610.2 | 5832.1 | 1905.8 | 1831.0 | 1978.3 | 1973.6 | 2067.2 | 2064.8 | 1903.5 | 1779.6 | 1777.2 |
| 37.5° | 8701.4 | 5373.7 | 1700.0 | 1735.1 | 1817.0 | 1877.8 | 1952.6 | 1817.0 | 1763.2 | 1688.4 | 1683.7 |
| 40° | 8895.4 | 4950.5 | 1594.8 | 1679.0 | 1714.1 | 1802.9 | 1686.0 | 1695.4 | 1681.3 | 1625.2 | 1618.2 |
| 42.5° | 9152.7 | 4590.4 | 1536.4 | 1660.3 | 1655.6 | 1679.0 | 1550.4 | 1587.8 | 1608.9 | 1566.8 | 1559.7 |
| 45° | 9400.5 | 4277.0 | 1506.0 | 1590.1 | 1613.5 | 1477.9 | 1452.2 | 1487.3 | 1520.0 | 1503.6 | 1496.6 |
| 47.5° | 9582.9 | 4005.8 | 1489.6 | 1494.3 | 1559.7 | 1410.1 | 1368.0 | 1384.4 | 1424.1 | 1431.1 | 1428.8 |
| 50° | 9639.1 | 3774.3 | 1470.9 | 1414.8 | 1400.7 | 1342.3 | 1309.5 | 1304.9 | 1351.6 | 1384.4 | 1389.0 |
| 52.5° | 9531.5 | 3568.5 | 1421.8 | 1344.6 | 1276.8 | 1286.1 | 1274.5 | 1251.1 | 1297.8 | 1342.3 | 1346.9 |
| 55° | 9372.5 | 3451.5 | 1344.6 | 1276.8 | 1197.3 | 1234.7 | 1239.4 | 1218.3 | 1248.7 | 1279.1 | 1279.1 |
| 57.5° | 9384.2 | 3519.4 | 1269.8 | 1213.7 | 1127.1 | 1176.2 | 1202.0 | 1192.6 | 1192.6 | 1216.0 | 1218.3 |
| 60° | 9461.3 | 3617.6 | 1220.7 | 1134.1 | 1057.0 | 1108.4 | 1166.9 | 1157.5 | 1136.5 | 1166.9 | 1166.9 |
| 62.5° | 9239.2 | 3486.6 | 1187.9 | 1057.0 | 982.1 | 1042.9 | 1113.1 | 1108.4 | 1085.0 | 1134.1 | 1138.8 |
| 65° | 8584.4 | 3135.9 | 1150.5 | 961.1 | 907.3 | 977.5 | 1038.3 | 1054.6 | 1033.6 | 1099.1 | 1110.8 |
| 67.5° | 7195.4 | 2637.8 | 1078.0 | 869.9 | 832.5 | 898.0 | 956.4 | 979.8 | 963.4 | 1040.6 | 1050.0 |
| 70° | 5364.4 | 2135.0 | 963.4 | 769.3 | 741.3 | 799.7 | 853.5 | 862.9 | 865.2 | 956.4 | 965.8 |
| 72.5° | 3421.1 | 1660.3 | 811.4 | 657.1 | 636.1 | 680.5 | 720.2 | 757.7 | 774.0 | 860.5 | 858.2 |
| 75° | 1908.2 | 1234.7 | 652.4 | 556.5 | 519.1 | 554.2 | 601.0 | 645.4 | 692.2 | 818.5 | 832.5 |
| 77.5° | 1099.1 | 867.6 | 516.8 | 446.6 | 402.2 | 439.6 | 479.4 | 542.5 | 682.8 | 792.7 | 778.7 |
| 80° | 619.7 | 563.6 | 390.5 | 327.4 | 299.3 | 327.4 | 357.8 | 477.0 | 537.8 | 584.6 | 591.6 |
| 82.5° | 290.0 | 315.7 | 266.6 | 201.1 | 201.1 | 219.8 | 247.9 | 369.5 | 406.9 | 332.1 | 290.0 |
| 85° | 105.2 | 142.6 | 131.0 | 102.9 | 91.2 | 88.9 | 154.3 | 210.5 | 131.0 | 116.9 | 100.6 |
| 87.5° | 28.1 | 39.8 | 37.4 | 25.7 | 14.0 | 11.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)