

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: P643632

Luminaire Tested: GWS-SA6F-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-735-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36970.3 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

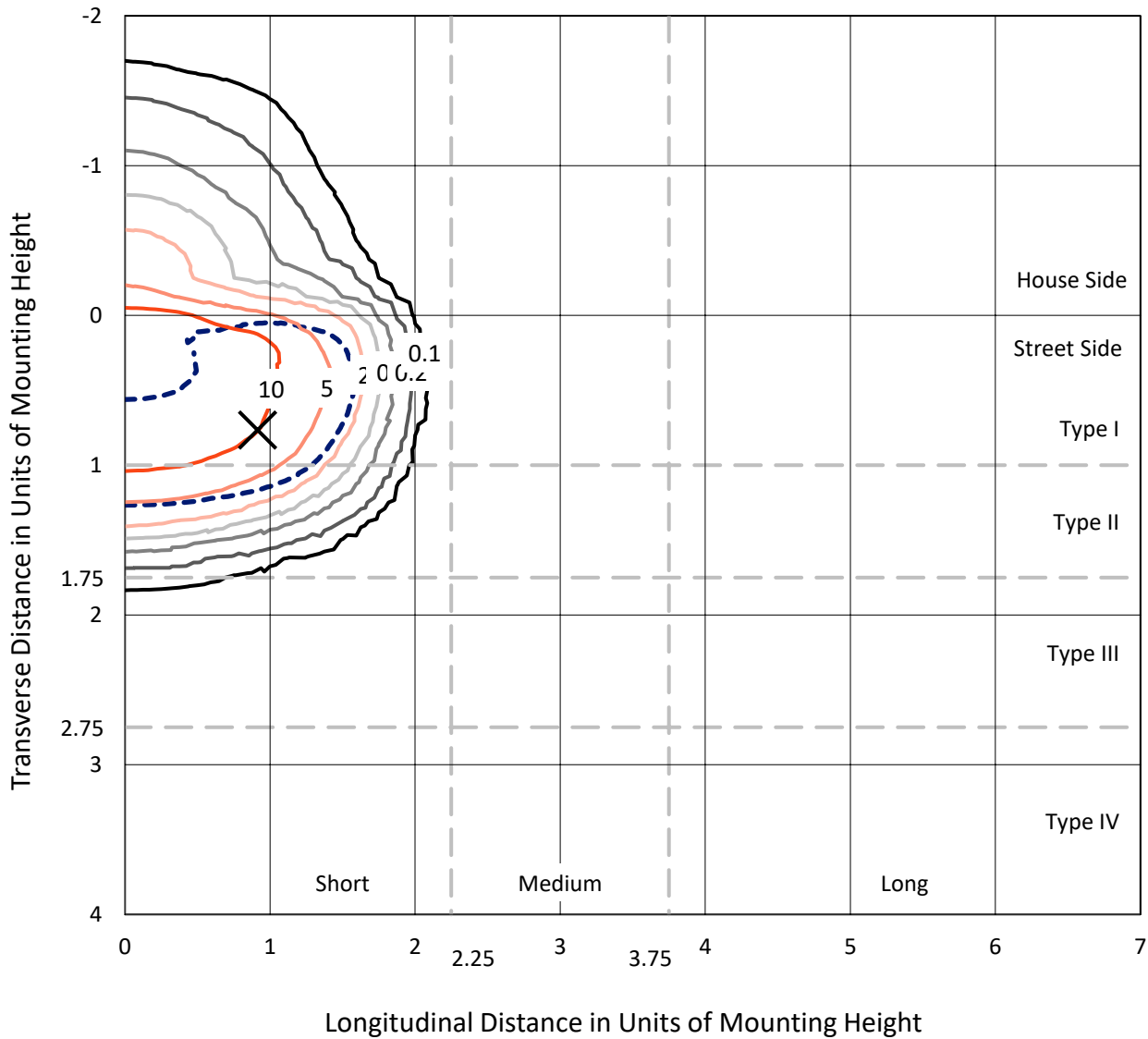
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643632
 CATALOG NUMBER: GWS-SA6F-735-U-AFL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

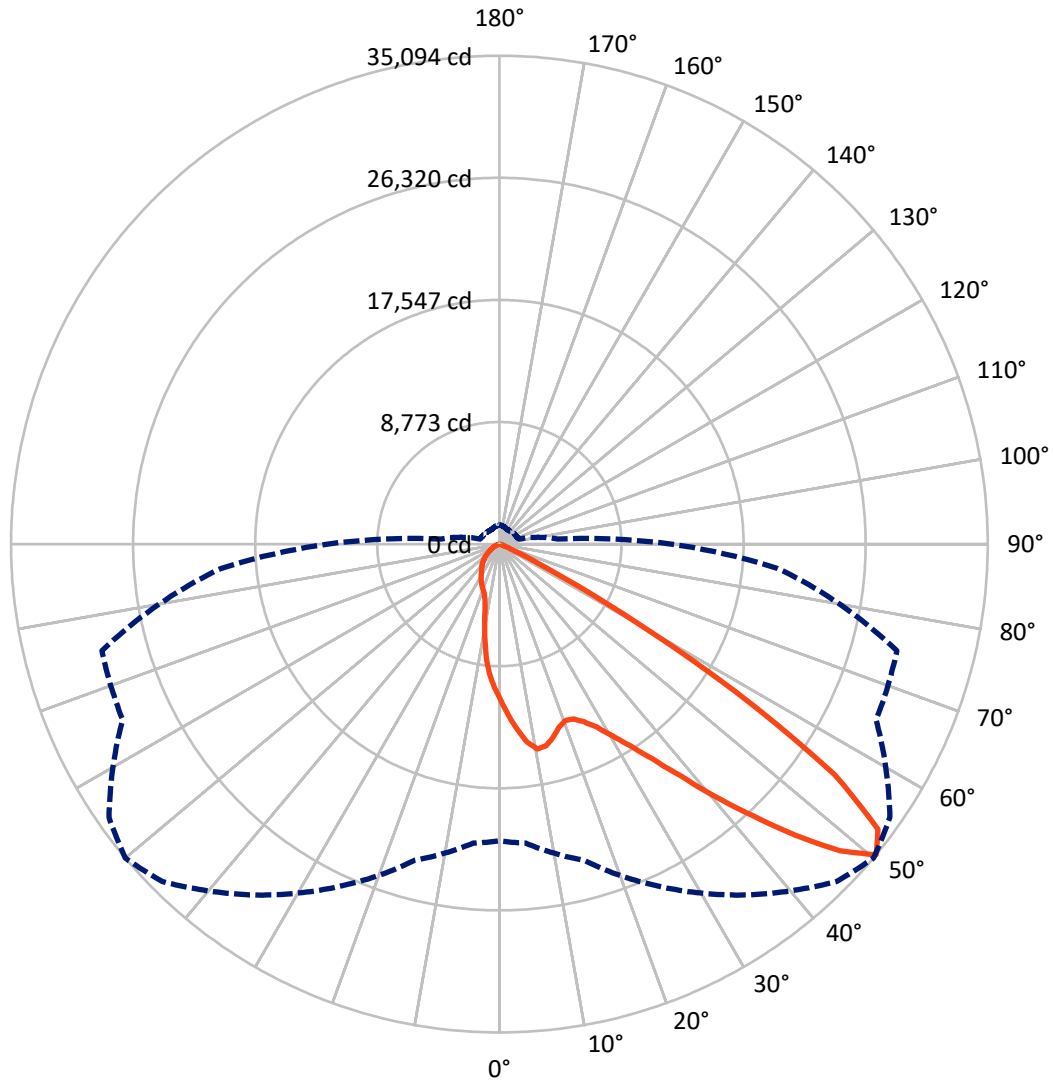
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - N/A

REPORT NUMBER: P643632
CATALOG NUMBER: GWS-SA6F-735-U-AFL-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P643632

CATALOG NUMBER: GWS-SA6F-735-U-AFL-W-GRSBK

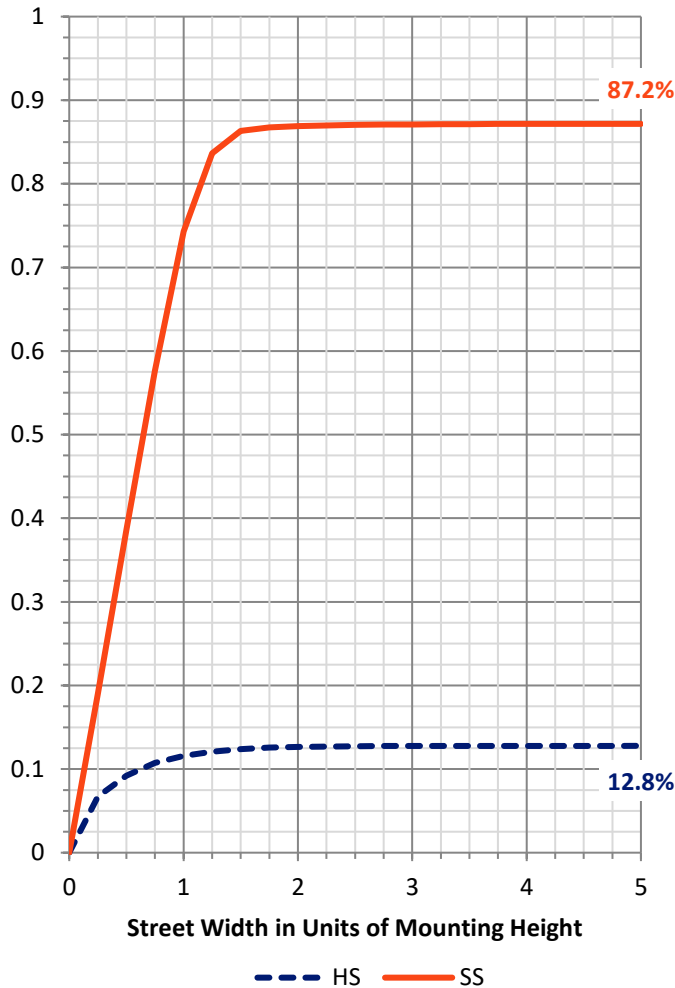
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4750.1 | 0.0 | 4750.1 |
| | % Fixture | 12.8 | 0.0 | 12.8 |
| Street Side | Lumens | 32220.2 | 0.0 | 32220.2 |
| | % Fixture | 87.2 | 0.0 | 87.2 |
| Total | Lumens | 36970.3 | 0.0 | 36970.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1039.0 | 2.8 |
| 10°-20° | 2680.7 | 7.3 |
| 20°-30° | 4424.2 | 12.0 |
| 30°-40° | 7300.9 | 19.7 |
| 40°-50° | 11551.7 | 31.2 |
| 50°-60° | 8745.9 | 23.7 |
| 60°-70° | 1094.6 | 3.0 |
| 70°-80° | 123.8 | 0.3 |
| 80°-90° | 9.5 | 0.0 |
| 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° | 36970.3 | 100.0 |
| 0°-180° | 36970.3 | 100.0 |

Coefficient of Utilization



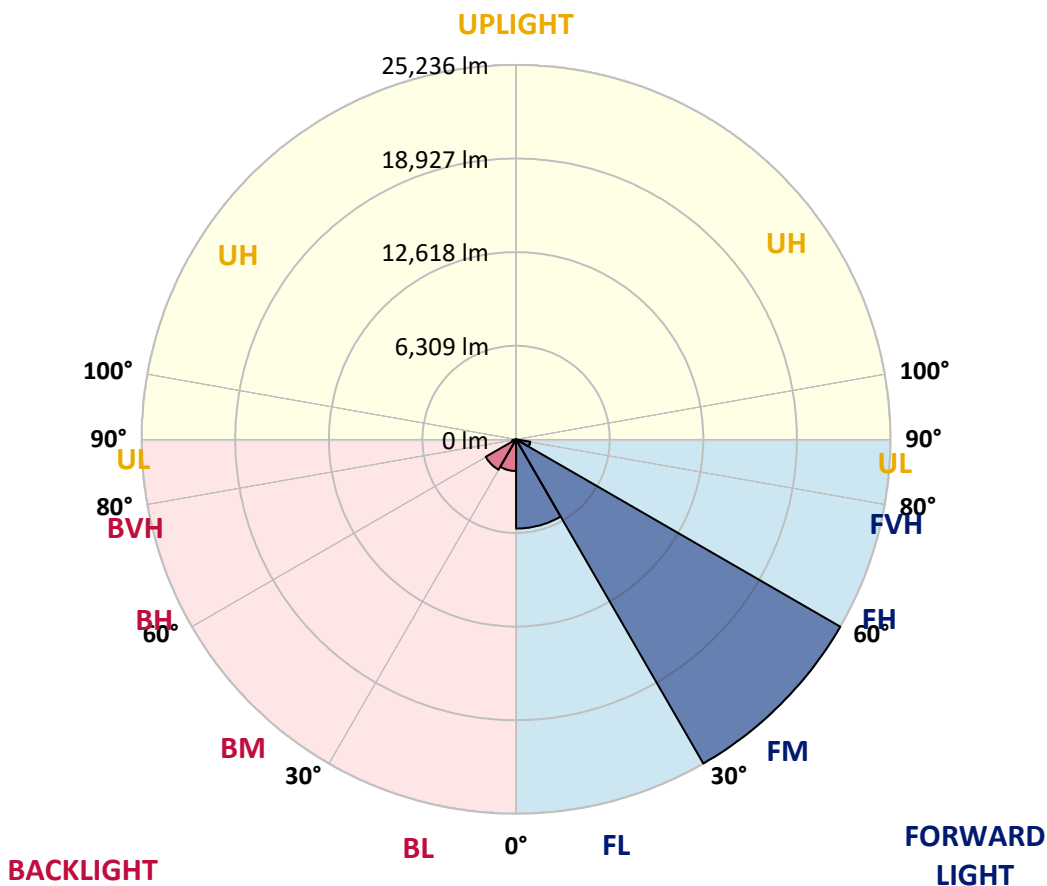
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CATALOG NUMBER: GWS-SA6F-735-U-AFL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 6011.9 | 16.3 | | | |
| FM (30°-60°) | 25236.1 | 68.3 | | | |
| FH (60°-80°) | 967.8 | 2.6 | | | G1/1800 |
| FVH (80°-90°) | 4.4 | 0.0 | | | G0/10 |
| BL (0°-30°) | 2132.1 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 2362.3 | 6.4 | B2/2500 | | |
| BH (60°-80°) | 250.7 | 0.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1
 Type II Short





REPORT NUMBER: P643632

CATALOG NUMBER: GWS-SA6F-735-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 50° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11200.5 | 11200.5 | 11200.5 | 11200.5 | 11200.5 | 11200.5 | 11200.5 | 11200.5 | 11200.5 | 11200.5 | 11200.5 |
| 2.5° | 12762.9 | 12865.0 | 12836.8 | 12703.1 | 12558.8 | 12456.8 | 12298.4 | 12249.2 | 11890.2 | 11640.4 | 11376.5 |
| 5° | 14304.2 | 14335.8 | 14300.6 | 14138.8 | 13885.4 | 13642.6 | 13382.2 | 13230.9 | 12629.2 | 12087.3 | 11534.8 |
| 7.5° | 14673.6 | 14634.9 | 14701.8 | 14782.7 | 14747.5 | 14642.0 | 14367.5 | 14202.1 | 13484.3 | 12601.0 | 11763.5 |
| 10° | 13519.5 | 13431.5 | 13681.3 | 14100.1 | 14539.9 | 15036.1 | 14965.7 | 14979.8 | 14318.2 | 13248.5 | 12062.7 |
| 12.5° | 11988.8 | 11953.6 | 12140.1 | 12625.7 | 13487.8 | 14613.8 | 14884.8 | 15338.7 | 15081.8 | 13948.8 | 12404.0 |
| 15° | 11316.7 | 11334.2 | 11446.9 | 11753.0 | 12372.3 | 13772.8 | 14423.8 | 15243.7 | 15764.5 | 14627.9 | 12780.5 |
| 17.5° | 11418.7 | 11482.0 | 11478.5 | 11580.6 | 11957.1 | 13079.6 | 13839.7 | 14944.6 | 16292.3 | 15409.1 | 13213.3 |
| 20° | 12111.9 | 12175.3 | 12080.2 | 12002.8 | 12129.5 | 12903.7 | 13533.5 | 14642.0 | 16647.7 | 16197.3 | 13670.8 |
| 22.5° | 13150.0 | 13223.9 | 12998.7 | 12777.0 | 12696.0 | 13192.2 | 13649.7 | 14518.8 | 16918.7 | 16918.7 | 14079.0 |
| 25° | 14406.2 | 14508.3 | 14159.9 | 13765.8 | 13540.6 | 13801.0 | 14145.8 | 14796.8 | 17196.7 | 17566.1 | 14356.9 |
| 27.5° | 15810.2 | 15813.8 | 15514.7 | 15071.3 | 14649.0 | 14680.7 | 14888.3 | 15423.2 | 17502.8 | 18262.9 | 14575.1 |
| 30° | 17390.2 | 17400.8 | 17003.1 | 16471.8 | 15940.4 | 15796.2 | 15972.1 | 16376.8 | 18139.7 | 19139.1 | 14877.7 |
| 32.5° | 19431.1 | 19480.4 | 18910.4 | 18129.2 | 17439.5 | 17168.5 | 17270.6 | 17696.3 | 19153.2 | 20237.0 | 15331.7 |
| 35° | 22189.9 | 22242.7 | 21401.7 | 20370.7 | 19272.8 | 18864.6 | 18966.7 | 19396.0 | 20620.5 | 21795.8 | 16056.6 |
| 37.5° | 24913.5 | 24983.9 | 24132.3 | 23171.7 | 21665.6 | 20990.0 | 21095.6 | 21503.8 | 22823.3 | 23949.4 | 17217.8 |
| 40° | 26796.1 | 26891.1 | 26627.2 | 25979.7 | 24582.8 | 23696.0 | 23822.7 | 23970.5 | 25247.8 | 26525.2 | 18723.9 |
| 42.5° | 27788.4 | 27922.2 | 28034.8 | 28365.5 | 27630.1 | 26887.6 | 26673.0 | 26683.5 | 27714.5 | 29150.2 | 20289.7 |
| 45° | 27848.3 | 27978.5 | 28555.5 | 29832.9 | 30392.4 | 30237.6 | 29847.0 | 29583.1 | 29597.1 | 30899.1 | 21268.0 |
| 47.5° | 25912.9 | 26155.7 | 27236.0 | 29737.9 | 31842.2 | 33126.5 | 32929.5 | 32303.1 | 30388.9 | 31015.2 | 21162.4 |
| 50° | 21327.8 | 21567.1 | 23530.6 | 27130.4 | 30786.5 | 34280.7 | 35093.6 | 34252.6 | 29871.6 | 29569.0 | 20075.1 |
| 52.5° | 15490.0 | 15514.7 | 16788.5 | 20993.5 | 26507.6 | 32151.8 | 34066.1 | 33985.1 | 29083.4 | 27816.6 | 18590.1 |
| 55° | 7357.9 | 7270.0 | 8702.1 | 11848.0 | 18333.3 | 26004.4 | 29231.2 | 30146.1 | 27964.4 | 26549.8 | 17439.5 |
| 57.5° | 2143.0 | 2185.2 | 2822.1 | 4623.8 | 9170.1 | 16619.6 | 20018.8 | 21721.9 | 22953.5 | 21827.5 | 13526.5 |
| 60° | 960.6 | 964.2 | 1073.3 | 1407.5 | 3054.4 | 7730.9 | 10349.0 | 12456.8 | 13723.6 | 12717.2 | 6710.5 |
| 62.5° | 696.7 | 700.3 | 742.5 | 795.3 | 1038.1 | 2618.0 | 3881.3 | 5172.7 | 5267.7 | 3448.5 | 1699.6 |
| 65° | 580.6 | 580.6 | 587.6 | 587.6 | 622.8 | 936.0 | 1178.8 | 1520.1 | 1280.9 | 950.1 | 665.1 |
| 67.5° | 468.0 | 471.5 | 478.6 | 478.6 | 468.0 | 468.0 | 506.7 | 556.0 | 594.7 | 735.4 | 612.3 |
| 70° | 366.0 | 362.4 | 362.4 | 366.0 | 355.4 | 302.6 | 327.3 | 373.0 | 408.2 | 573.6 | 531.3 |
| 72.5° | 285.0 | 288.5 | 285.0 | 271.0 | 246.3 | 179.5 | 193.5 | 242.8 | 260.4 | 358.9 | 358.9 |
| 75° | 214.7 | 218.2 | 204.1 | 154.8 | 102.0 | 56.3 | 73.9 | 119.6 | 151.3 | 175.9 | 130.2 |
| 77.5° | 28.2 | 28.2 | 21.1 | 21.1 | 17.6 | 21.1 | 21.1 | 28.2 | 42.2 | 42.2 | 31.7 |
| 80° | 3.5 | 3.5 | 3.5 | 7.0 | 10.6 | 14.1 | 14.1 | 14.1 | 14.1 | 17.6 | 17.6 |
| 82.5° | 3.5 | 3.5 | 3.5 | 3.5 | 10.6 | 10.6 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 |
| 85° | 0.0 | 0.0 | 0.0 | 3.5 | 7.0 | 10.6 | 10.6 | 14.1 | 14.1 | 14.1 | 14.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 3.5 | 7.0 | 10.6 | 10.6 | 10.6 | 14.1 | 14.1 | 14.1 |
| 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: P643632

CATALOG NUMBER: GWS-SA6F-735-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11200.5 | 11200.5 | 11200.5 | 11200.5 | 11200.5 | 11200.5 | 11200.5 | 11200.5 | 11200.5 | 11200.5 | 11200.5 |
| 2.5° | 11218.1 | 11014.0 | 10767.7 | 10598.8 | 10359.5 | 10201.2 | 9976.0 | 9824.7 | 9694.5 | 9592.4 | 9648.7 |
| 5° | 11221.6 | 10897.9 | 10394.7 | 9965.4 | 9497.4 | 9068.1 | 8607.1 | 8244.7 | 7917.4 | 7769.6 | 7850.6 |
| 7.5° | 11292.0 | 10827.5 | 10056.9 | 9293.3 | 8396.0 | 7509.2 | 6678.8 | 6003.2 | 5668.9 | 5510.5 | 5559.8 |
| 10° | 11429.3 | 10795.9 | 9680.4 | 8413.6 | 6956.8 | 5746.3 | 4940.5 | 4483.0 | 4296.5 | 4198.0 | 4215.6 |
| 12.5° | 11555.9 | 10774.7 | 9191.3 | 7255.9 | 5489.4 | 4458.4 | 4039.7 | 3976.3 | 4015.0 | 4018.5 | 4015.0 |
| 15° | 11728.4 | 10736.0 | 8586.0 | 6066.5 | 4391.5 | 3853.2 | 3863.7 | 3955.2 | 4046.7 | 4074.8 | 4067.8 |
| 17.5° | 11911.3 | 10676.2 | 7804.8 | 4926.4 | 3726.5 | 3677.2 | 3800.4 | 3923.5 | 4015.0 | 4029.1 | 4032.6 |
| 20° | 12101.4 | 10553.1 | 6914.6 | 4022.1 | 3416.8 | 3543.5 | 3680.7 | 3772.2 | 3839.1 | 3860.2 | 3867.2 |
| 22.5° | 12189.3 | 10292.7 | 5887.1 | 3374.6 | 3209.2 | 3378.1 | 3480.2 | 3599.8 | 3620.9 | 3543.5 | 3557.6 |
| 25° | 12143.6 | 9852.8 | 4884.2 | 2938.2 | 3001.6 | 3170.5 | 3321.8 | 3262.0 | 3174.0 | 3117.7 | 3135.3 |
| 27.5° | 11999.3 | 9268.7 | 3902.4 | 2618.0 | 2779.9 | 2994.5 | 3012.1 | 2945.3 | 2931.2 | 2885.5 | 2899.5 |
| 30° | 11844.5 | 8596.6 | 3138.8 | 2361.2 | 2554.7 | 2779.9 | 2727.1 | 2751.7 | 2755.3 | 2702.5 | 2720.1 |
| 32.5° | 11749.5 | 7892.8 | 2498.4 | 2188.7 | 2410.4 | 2452.6 | 2558.2 | 2607.5 | 2611.0 | 2487.8 | 2508.9 |
| 35° | 11781.1 | 7199.6 | 2114.8 | 2048.0 | 2276.7 | 2266.1 | 2413.9 | 2442.1 | 2238.0 | 2069.1 | 2086.7 |
| 37.5° | 12038.0 | 6559.2 | 1896.7 | 1938.9 | 2044.5 | 2125.4 | 2238.0 | 2051.5 | 2005.8 | 1928.3 | 1938.9 |
| 40° | 12516.6 | 6013.7 | 1766.5 | 1872.0 | 1886.1 | 2016.3 | 1843.9 | 1868.5 | 1872.0 | 1822.8 | 1833.3 |
| 42.5° | 13076.1 | 5559.8 | 1689.1 | 1833.3 | 1798.1 | 1819.3 | 1646.8 | 1696.1 | 1748.9 | 1727.8 | 1731.3 |
| 45° | 13357.6 | 5116.4 | 1622.2 | 1699.6 | 1710.2 | 1509.6 | 1470.9 | 1523.7 | 1590.5 | 1601.1 | 1604.6 |
| 47.5° | 13107.8 | 4694.2 | 1551.8 | 1506.1 | 1576.4 | 1375.9 | 1330.1 | 1347.7 | 1425.1 | 1467.4 | 1474.4 |
| 50° | 12344.2 | 4208.6 | 1446.3 | 1333.6 | 1294.9 | 1235.1 | 1192.9 | 1196.4 | 1284.4 | 1358.3 | 1372.4 |
| 52.5° | 11270.9 | 3701.8 | 1273.8 | 1129.6 | 1041.6 | 1087.3 | 1097.9 | 1076.8 | 1157.7 | 1231.6 | 1245.7 |
| 55° | 10229.3 | 3068.4 | 1009.9 | 918.4 | 837.5 | 936.0 | 964.2 | 936.0 | 960.6 | 1009.9 | 1013.4 |
| 57.5° | 7203.1 | 1734.8 | 774.1 | 760.1 | 693.2 | 802.3 | 848.0 | 805.8 | 763.6 | 795.3 | 802.3 |
| 60° | 3339.4 | 907.9 | 594.7 | 594.7 | 577.1 | 689.7 | 767.1 | 707.3 | 626.4 | 640.4 | 651.0 |
| 62.5° | 1045.1 | 573.6 | 436.3 | 411.7 | 471.5 | 587.6 | 651.0 | 591.2 | 496.2 | 496.2 | 510.2 |
| 65° | 591.2 | 492.6 | 344.8 | 316.7 | 383.6 | 471.5 | 510.2 | 446.9 | 362.4 | 355.4 | 355.4 |
| 67.5° | 548.9 | 468.0 | 306.1 | 256.9 | 271.0 | 302.6 | 316.7 | 274.5 | 249.8 | 246.3 | 249.8 |
| 70° | 453.9 | 390.6 | 246.3 | 175.9 | 165.4 | 161.9 | 168.9 | 158.3 | 151.3 | 154.8 | 165.4 |
| 72.5° | 281.5 | 235.8 | 154.8 | 105.6 | 91.5 | 88.0 | 88.0 | 88.0 | 84.5 | 84.5 | 84.5 |
| 75° | 102.0 | 88.0 | 70.4 | 52.8 | 45.7 | 42.2 | 42.2 | 45.7 | 42.2 | 38.7 | 35.2 |
| 77.5° | 31.7 | 28.2 | 28.2 | 28.2 | 24.6 | 21.1 | 17.6 | 17.6 | 14.1 | 10.6 | 10.6 |
| 80° | 17.6 | 17.6 | 17.6 | 17.6 | 14.1 | 14.1 | 10.6 | 7.0 | 3.5 | 3.5 | 0.0 |
| 82.5° | 17.6 | 17.6 | 17.6 | 14.1 | 14.1 | 14.1 | 10.6 | 7.0 | 3.5 | 0.0 | 0.0 |
| 85° | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 10.6 | 7.0 | 3.5 | 0.0 | 0.0 |
| 87.5° | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 10.6 | 7.0 | 3.5 | 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)