

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: P640169

Luminaire Tested: GWS-SA5D-735-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-735-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24846.9 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

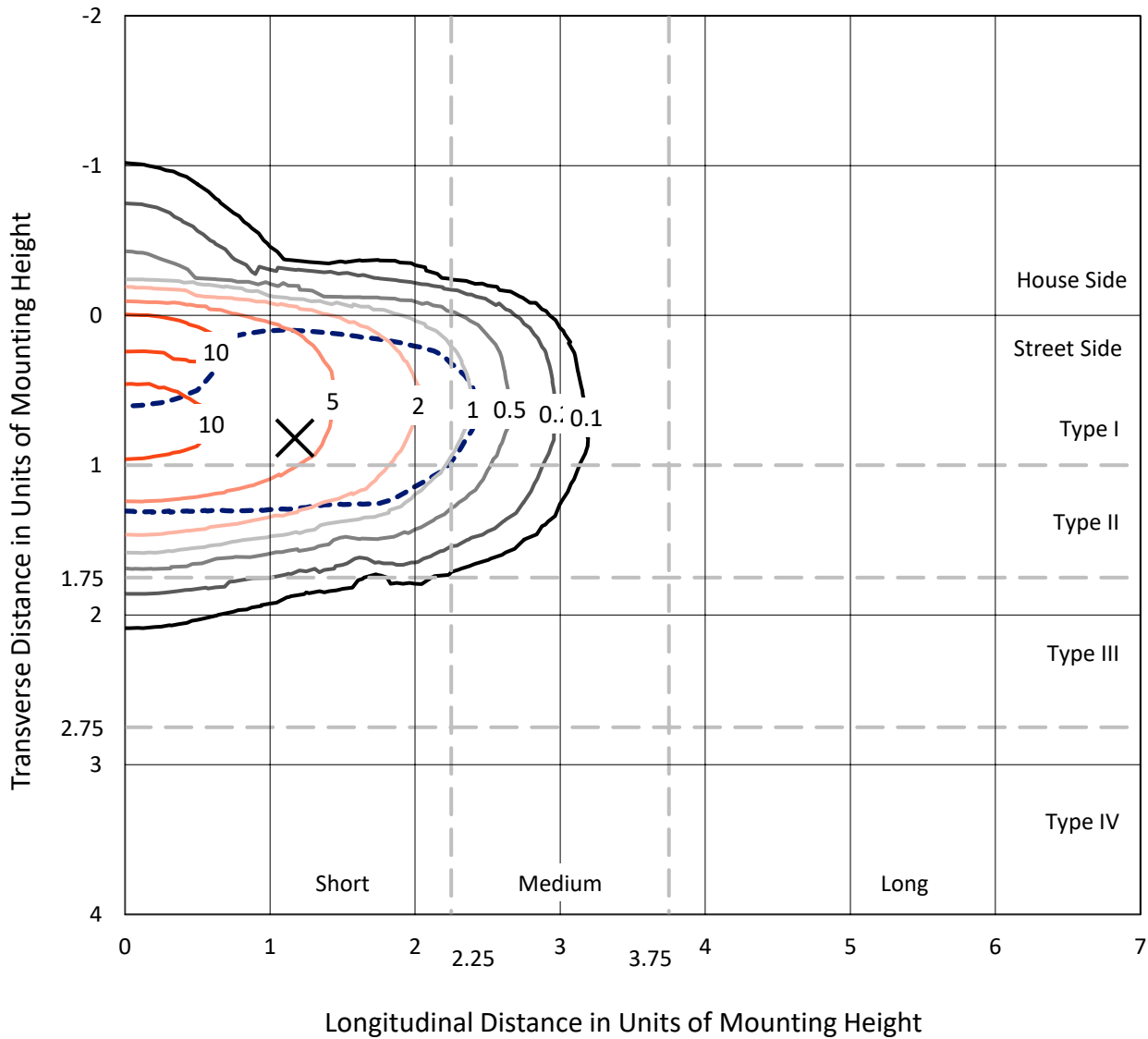
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640169
 CATALOG NUMBER: GWS-SA5D-735-U-AFL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

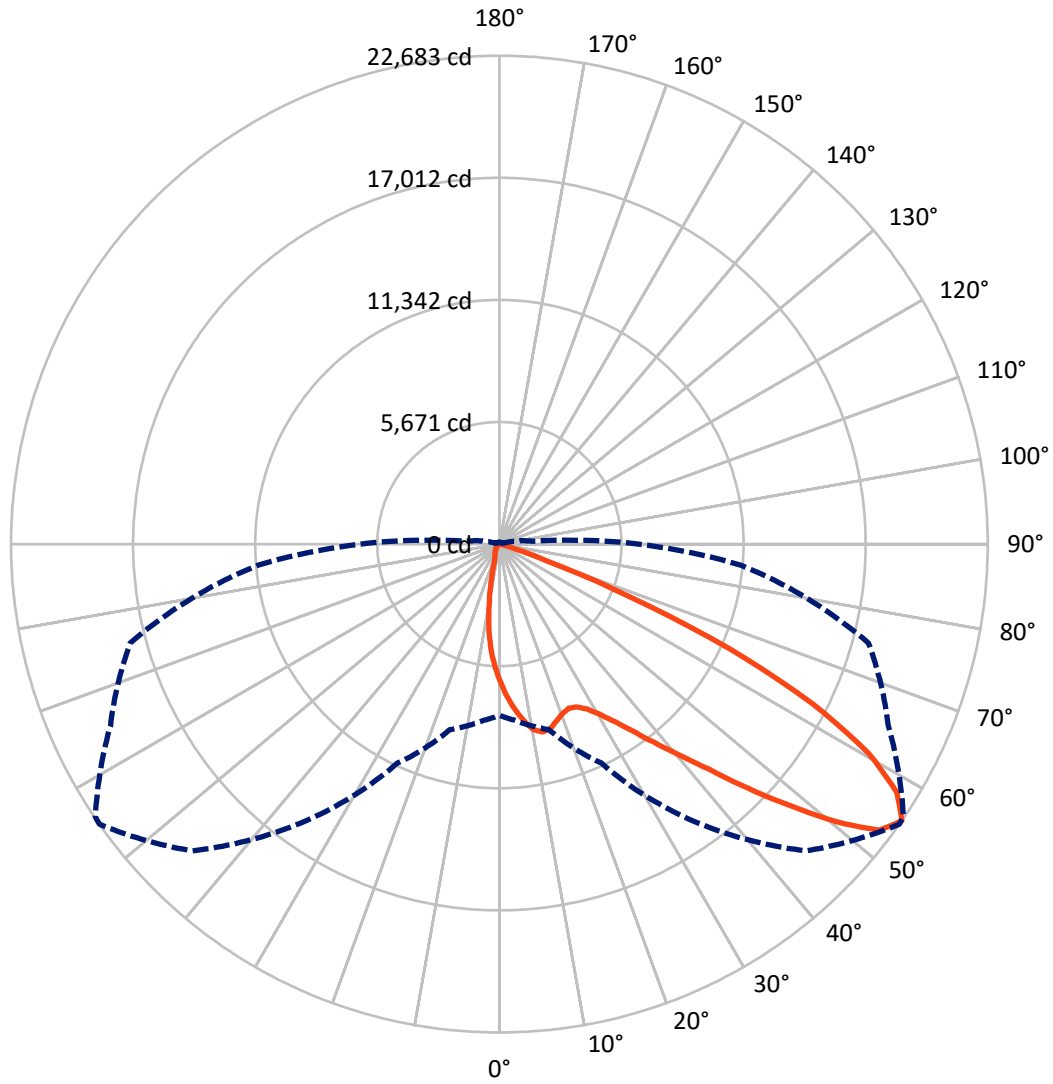
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - N/A

REPORT NUMBER: P640169
CATALOG NUMBER: GWS-SA5D-735-U-AFL-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P640169
 CATALOG NUMBER: GWS-SA5D-735-U-AFL-W-HSS

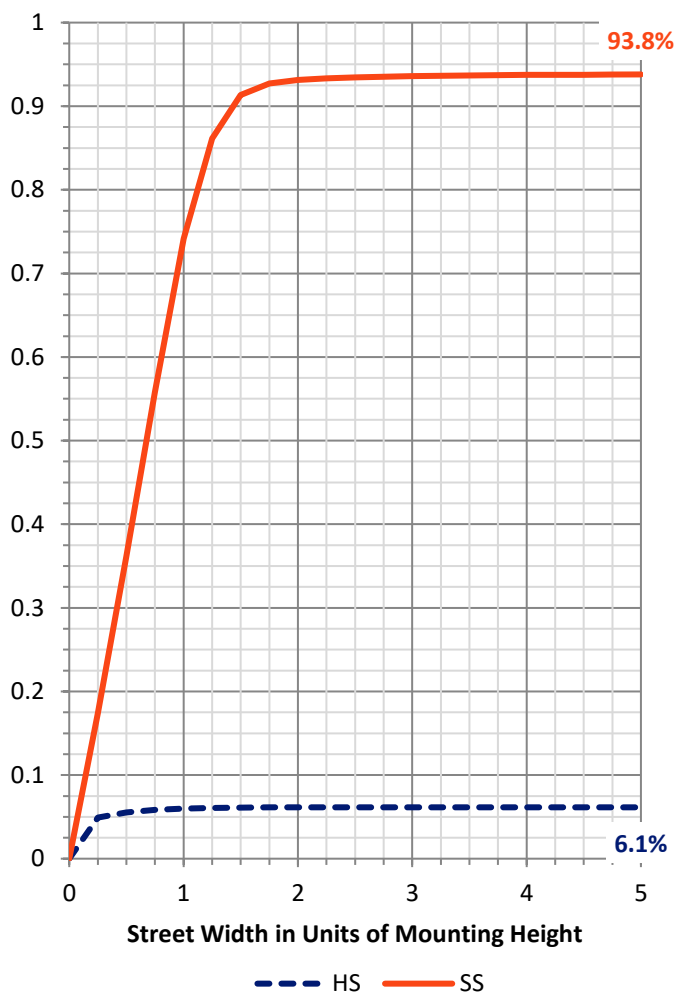
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1533.2 | 0.0 | 1533.2 |
| | % Fixture | 6.2 | 0.0 | 6.2 |
| Street Side | Lumens | 23313.7 | 0.0 | 23313.7 |
| | % Fixture | 93.8 | 0.0 | 93.8 |
| Total | Lumens | 24846.9 | 0.0 | 24846.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 567.3 | 2.3 |
| 10°-20° | 1367.7 | 5.5 |
| 20°-30° | 2277.7 | 9.2 |
| 30°-40° | 3881.3 | 15.6 |
| 40°-50° | 6335.6 | 25.5 |
| 50°-60° | 6633.1 | 26.7 |
| 60°-70° | 3345.6 | 13.5 |
| 70°-80° | 422.6 | 1.7 |
| 80°-90° | 16.0 | 0.1 |
| 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° | 24846.9 | 100.0 |
| 0°-180° | 24846.9 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P640169

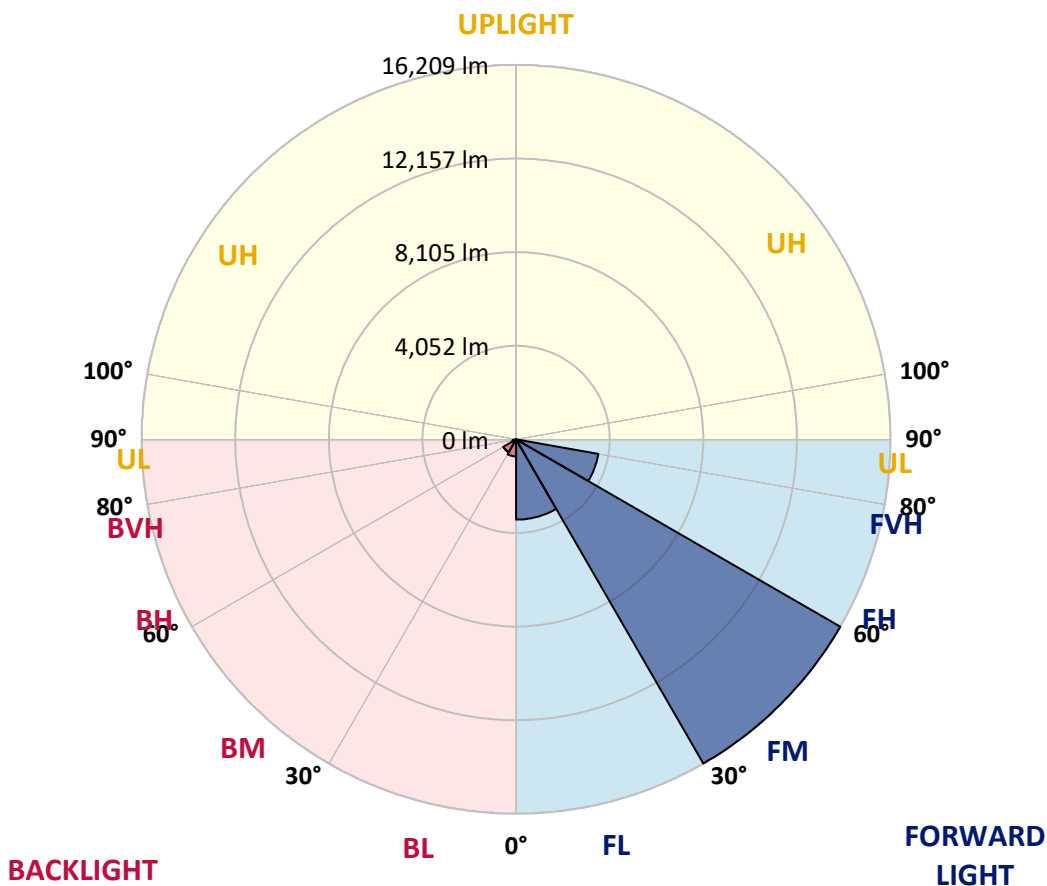
CATALOG NUMBER: GWS-SA5D-735-U-AFL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3475.7 | 14.0 | | | |
| FM (30°-60°) | 16209.0 | 65.2 | | | |
| FH (60°-80°) | 3614.4 | 14.5 | | | G2/5000 |
| FVH (80°-90°) | 14.6 | 0.1 | | | G1/100 |
| BL (0°-30°) | 736.9 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 641.0 | 2.6 | B1/1000 | | |
| BH (60°-80°) | 153.8 | 0.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P640169

CATALOG NUMBER: GWS-SA5D-735-U-AFL-W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6419.0 | 6419.0 | 6419.0 | 6419.0 | 6419.0 | 6419.0 | 6419.0 | 6419.0 | 6419.0 | 6419.0 | 6419.0 |
| 2.5° | 7483.2 | 7447.0 | 7502.3 | 7438.5 | 7330.2 | 7238.9 | 7119.9 | 7077.4 | 6886.3 | 6705.7 | 6531.6 |
| 5° | 8392.3 | 8402.9 | 8385.9 | 8296.7 | 8143.7 | 7973.8 | 7733.8 | 7680.7 | 7347.2 | 7003.1 | 6631.4 |
| 7.5° | 8617.4 | 8611.0 | 8647.1 | 8681.1 | 8655.6 | 8570.7 | 8309.4 | 8256.3 | 7842.1 | 7326.0 | 6784.3 |
| 10° | 7922.8 | 7927.1 | 8001.4 | 8230.8 | 8515.5 | 8810.7 | 8770.3 | 8740.6 | 8334.9 | 7691.3 | 6954.3 |
| 12.5° | 6941.5 | 6979.7 | 7058.3 | 7385.4 | 7867.6 | 8538.8 | 8955.1 | 8984.9 | 8787.3 | 8092.8 | 7153.9 |
| 15° | 6516.7 | 6525.2 | 6588.9 | 6786.5 | 7145.4 | 7973.8 | 8876.5 | 8959.4 | 9165.4 | 8496.3 | 7370.6 |
| 17.5° | 6506.1 | 6516.7 | 6544.3 | 6631.4 | 6865.0 | 7529.9 | 8623.8 | 8768.2 | 9450.1 | 8929.7 | 7629.7 |
| 20° | 6905.4 | 6899.0 | 6879.9 | 6833.2 | 6935.1 | 7383.3 | 8390.1 | 8549.4 | 9605.1 | 9352.3 | 7891.0 |
| 22.5° | 7629.7 | 7621.2 | 7536.3 | 7343.0 | 7260.1 | 7517.1 | 8275.4 | 8419.9 | 9698.6 | 9728.3 | 8105.5 |
| 25° | 8464.5 | 8524.0 | 8364.6 | 8071.5 | 7867.6 | 7859.1 | 8377.4 | 8479.3 | 9779.3 | 10061.8 | 8252.1 |
| 27.5° | 9380.0 | 9399.1 | 9263.1 | 8933.9 | 8638.7 | 8407.1 | 8672.6 | 8749.1 | 9868.5 | 10359.2 | 8334.9 |
| 30° | 10384.6 | 10378.3 | 10223.2 | 9840.9 | 9481.9 | 9148.4 | 9169.7 | 9199.4 | 10076.7 | 10699.0 | 8426.2 |
| 32.5° | 11640.0 | 11667.6 | 11391.5 | 10871.1 | 10439.9 | 9978.9 | 9819.6 | 9823.9 | 10452.6 | 11136.6 | 8564.3 |
| 35° | 13345.6 | 13277.7 | 12912.3 | 12171.0 | 11436.1 | 10939.0 | 10667.2 | 10643.8 | 11032.5 | 11724.9 | 8804.3 |
| 37.5° | 14970.5 | 14976.9 | 14594.6 | 13778.9 | 12850.7 | 12066.9 | 11682.5 | 11618.7 | 11848.1 | 12540.6 | 9203.7 |
| 40° | 16098.4 | 16119.7 | 15960.4 | 15533.4 | 14550.0 | 13441.2 | 12876.2 | 12810.4 | 12905.9 | 13572.9 | 9726.2 |
| 42.5° | 16695.3 | 16754.8 | 16799.4 | 16899.2 | 16153.7 | 15157.5 | 14288.7 | 14282.3 | 14182.5 | 14749.6 | 10331.5 |
| 45° | 16718.7 | 16807.9 | 17079.8 | 17761.6 | 17846.6 | 17115.9 | 16170.7 | 16028.3 | 15643.9 | 16009.2 | 10873.2 |
| 47.5° | 15794.7 | 16000.7 | 16578.5 | 17929.4 | 18821.5 | 19063.7 | 18126.9 | 18039.9 | 16960.8 | 17005.4 | 11278.9 |
| 50° | 13640.9 | 13855.4 | 14919.6 | 17069.1 | 19067.9 | 20610.0 | 20274.4 | 20093.8 | 18061.1 | 17663.9 | 11474.3 |
| 52.5° | 11431.8 | 11627.2 | 12349.4 | 15021.5 | 18046.2 | 21096.4 | 22084.1 | 21869.6 | 19048.8 | 17893.3 | 11393.6 |
| 55° | 7954.7 | 8216.0 | 8921.2 | 11227.9 | 15692.7 | 20149.1 | 22683.1 | 22638.5 | 19930.3 | 17748.9 | 11268.3 |
| 57.5° | 3899.8 | 4159.0 | 4862.0 | 6922.4 | 11625.1 | 17591.7 | 21767.6 | 22003.4 | 20457.1 | 17593.8 | 11166.3 |
| 60° | 1629.2 | 1735.4 | 1977.5 | 3037.4 | 6503.9 | 13294.6 | 19700.9 | 20028.0 | 20134.2 | 17383.5 | 11155.7 |
| 62.5° | 945.2 | 962.2 | 987.7 | 1259.6 | 2529.8 | 7621.2 | 16342.7 | 16807.9 | 18437.1 | 17105.3 | 10987.9 |
| 65° | 713.7 | 720.1 | 709.4 | 773.2 | 1045.0 | 2890.9 | 11807.8 | 12440.8 | 15389.0 | 16017.7 | 10325.2 |
| 67.5° | 586.2 | 586.2 | 558.6 | 571.4 | 656.3 | 1083.3 | 6518.8 | 7402.4 | 11387.2 | 13165.1 | 8526.1 |
| 70° | 467.3 | 477.9 | 465.2 | 448.2 | 469.4 | 599.0 | 2319.5 | 2876.0 | 6631.4 | 7774.1 | 4972.5 |
| 72.5° | 354.7 | 354.7 | 376.0 | 363.2 | 348.3 | 376.0 | 809.3 | 909.1 | 2661.5 | 3241.4 | 1794.9 |
| 75° | 274.0 | 282.5 | 297.4 | 284.6 | 263.4 | 223.0 | 388.7 | 412.1 | 802.9 | 754.1 | 401.5 |
| 77.5° | 140.2 | 142.3 | 189.0 | 208.2 | 195.4 | 135.9 | 169.9 | 186.9 | 261.3 | 233.6 | 148.7 |
| 80° | 85.0 | 89.2 | 106.2 | 163.6 | 129.6 | 72.2 | 70.1 | 74.3 | 123.2 | 106.2 | 61.6 |
| 82.5° | 36.1 | 38.2 | 59.5 | 59.5 | 53.1 | 27.6 | 27.6 | 27.6 | 59.5 | 55.2 | 25.5 |
| 85° | 0.0 | 0.0 | 10.6 | 8.5 | 8.5 | 10.6 | 10.6 | 10.6 | 14.9 | 21.2 | 12.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 6.4 | 6.4 |
| 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: P640169

CATALOG NUMBER: GWS-SA5D-735-U-AFL-W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6419.0 | 6419.0 | 6419.0 | 6419.0 | 6419.0 | 6419.0 | 6419.0 | 6419.0 | 6419.0 | 6419.0 | 6419.0 |
| 2.5° | 6419.0 | 6283.0 | 6100.4 | 5934.7 | 5711.7 | 5586.3 | 5412.2 | 5269.9 | 5148.8 | 5110.5 | 5093.6 |
| 5° | 6421.1 | 6187.5 | 5796.6 | 5405.8 | 4925.8 | 4547.7 | 4159.0 | 3851.0 | 3598.2 | 3517.5 | 3496.2 |
| 7.5° | 6463.6 | 6119.5 | 5486.5 | 4777.1 | 3974.2 | 3311.4 | 2718.8 | 2187.8 | 1941.4 | 1858.6 | 1841.6 |
| 10° | 6520.9 | 6062.1 | 5127.5 | 4023.0 | 2869.6 | 2017.9 | 1429.5 | 1089.7 | 928.2 | 839.0 | 851.8 |
| 12.5° | 6595.3 | 6015.4 | 4730.3 | 3207.4 | 1898.9 | 1108.8 | 785.9 | 658.5 | 624.5 | 607.5 | 599.0 |
| 15° | 6695.1 | 5960.2 | 4237.5 | 2398.1 | 1164.0 | 713.7 | 605.4 | 571.4 | 558.6 | 550.1 | 548.0 |
| 17.5° | 6797.1 | 5896.5 | 3736.3 | 1686.5 | 773.2 | 592.6 | 543.8 | 526.8 | 518.3 | 511.9 | 509.8 |
| 20° | 6905.4 | 5788.1 | 3147.9 | 1161.9 | 609.6 | 533.1 | 501.3 | 482.2 | 471.5 | 460.9 | 458.8 |
| 22.5° | 6952.1 | 5614.0 | 2585.0 | 813.5 | 541.6 | 490.7 | 450.3 | 426.9 | 414.2 | 405.7 | 405.7 |
| 25° | 6907.5 | 5331.5 | 2003.0 | 618.1 | 492.8 | 443.9 | 403.6 | 378.1 | 367.5 | 359.0 | 359.0 |
| 27.5° | 6788.6 | 4968.2 | 1461.4 | 511.9 | 439.7 | 395.1 | 356.8 | 333.5 | 325.0 | 320.7 | 320.7 |
| 30° | 6656.9 | 4509.4 | 1030.2 | 439.7 | 380.2 | 344.1 | 312.2 | 297.4 | 295.2 | 291.0 | 291.0 |
| 32.5° | 6544.3 | 4080.4 | 709.4 | 386.6 | 335.6 | 299.5 | 278.3 | 271.9 | 274.0 | 269.8 | 271.9 |
| 35° | 6482.7 | 3659.8 | 526.8 | 344.1 | 299.5 | 265.5 | 254.9 | 254.9 | 254.9 | 252.8 | 252.8 |
| 37.5° | 6508.2 | 3245.6 | 429.1 | 314.4 | 267.6 | 242.1 | 231.5 | 235.8 | 240.0 | 240.0 | 240.0 |
| 40° | 6635.6 | 2878.1 | 380.2 | 286.8 | 240.0 | 220.9 | 212.4 | 218.8 | 225.2 | 229.4 | 229.4 |
| 42.5° | 6797.1 | 2580.8 | 344.1 | 263.4 | 220.9 | 199.7 | 195.4 | 201.8 | 208.2 | 212.4 | 212.4 |
| 45° | 6899.0 | 2281.3 | 308.0 | 233.6 | 201.8 | 176.3 | 176.3 | 184.8 | 182.7 | 184.8 | 184.8 |
| 47.5° | 6945.8 | 2043.4 | 271.9 | 201.8 | 172.1 | 152.9 | 155.1 | 159.3 | 155.1 | 159.3 | 159.3 |
| 50° | 6831.1 | 1803.3 | 240.0 | 167.8 | 142.3 | 133.8 | 138.1 | 135.9 | 135.9 | 144.4 | 144.4 |
| 52.5° | 6620.8 | 1624.9 | 212.4 | 142.3 | 121.1 | 118.9 | 123.2 | 114.7 | 116.8 | 116.8 | 114.7 |
| 55° | 6465.7 | 1523.0 | 189.0 | 123.2 | 104.1 | 106.2 | 104.1 | 89.2 | 80.7 | 72.2 | 70.1 |
| 57.5° | 6389.2 | 1482.6 | 172.1 | 110.5 | 93.5 | 93.5 | 85.0 | 61.6 | 46.7 | 36.1 | 31.9 |
| 60° | 6372.3 | 1433.8 | 155.1 | 95.6 | 82.8 | 78.6 | 61.6 | 36.1 | 23.4 | 17.0 | 14.9 |
| 62.5° | 6210.8 | 1314.8 | 140.2 | 76.5 | 72.2 | 63.7 | 38.2 | 21.2 | 12.7 | 8.5 | 6.4 |
| 65° | 5681.9 | 1081.2 | 125.3 | 59.5 | 55.2 | 46.7 | 23.4 | 12.7 | 6.4 | 2.1 | 0.0 |
| 67.5° | 4520.1 | 766.8 | 110.5 | 44.6 | 38.2 | 29.7 | 14.9 | 8.5 | 2.1 | 0.0 | 0.0 |
| 70° | 2606.3 | 414.2 | 91.3 | 31.9 | 25.5 | 19.1 | 10.6 | 4.2 | 0.0 | 0.0 | 0.0 |
| 72.5° | 870.9 | 193.3 | 70.1 | 21.2 | 19.1 | 14.9 | 6.4 | 2.1 | 0.0 | 0.0 | 0.0 |
| 75° | 191.2 | 114.7 | 46.7 | 14.9 | 12.7 | 10.6 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 72.2 | 80.7 | 23.4 | 10.6 | 8.5 | 6.4 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 27.6 | 53.1 | 10.6 | 6.4 | 6.4 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 14.9 | 21.2 | 6.4 | 4.2 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 8.5 | 10.6 | 4.2 | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.2 | 2.1 | 2.1 | 2.1 | 0.0 | 0.0 | 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)