

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: STREETWORKS

Report Number: P386458

Luminaire Tested: GAW-SA2A-760-U-T4FT-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2A-760-U-T4FT-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6906 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

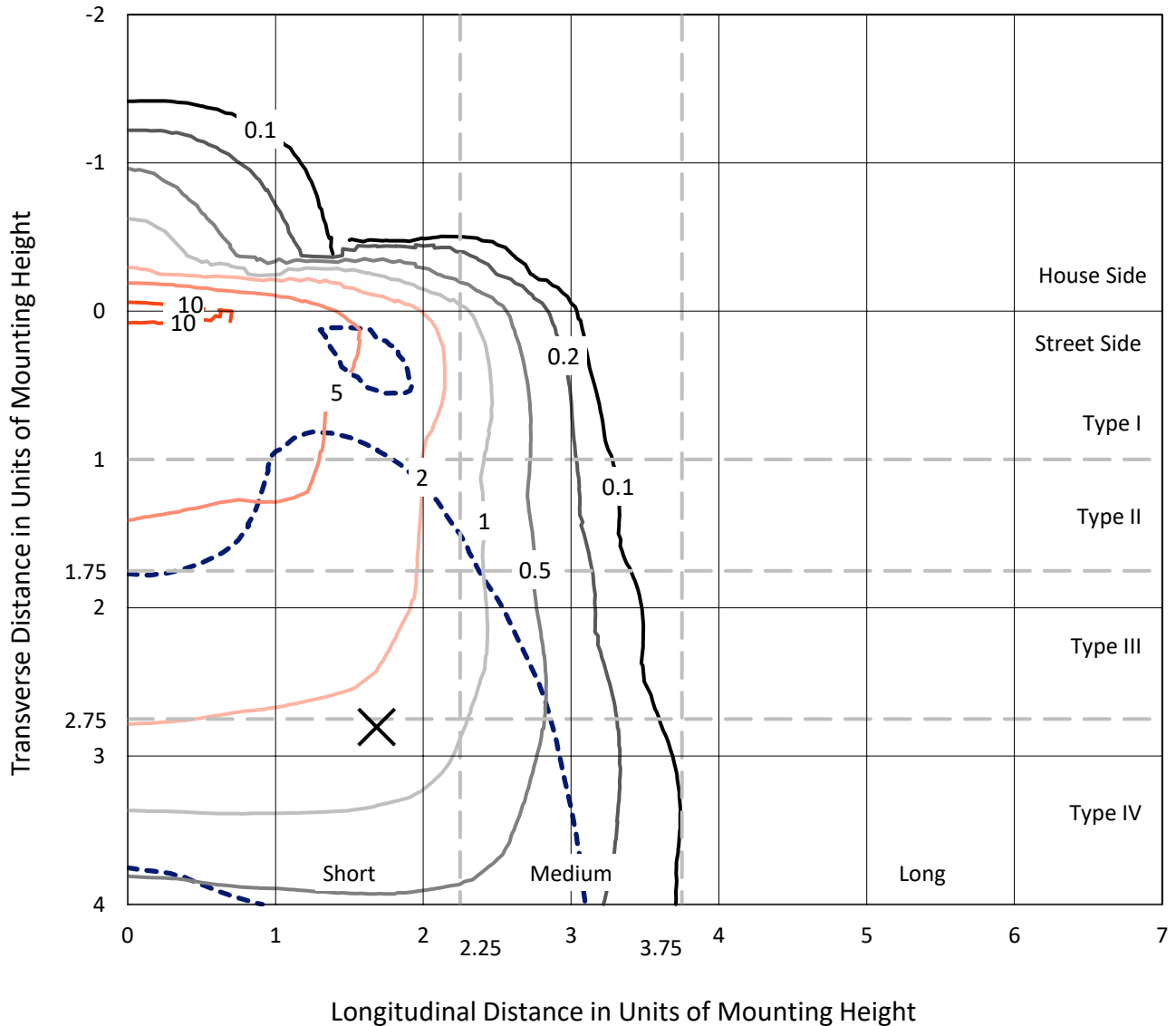
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P386458
 CATALOG NUMBER: GAW-SA2A-760-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

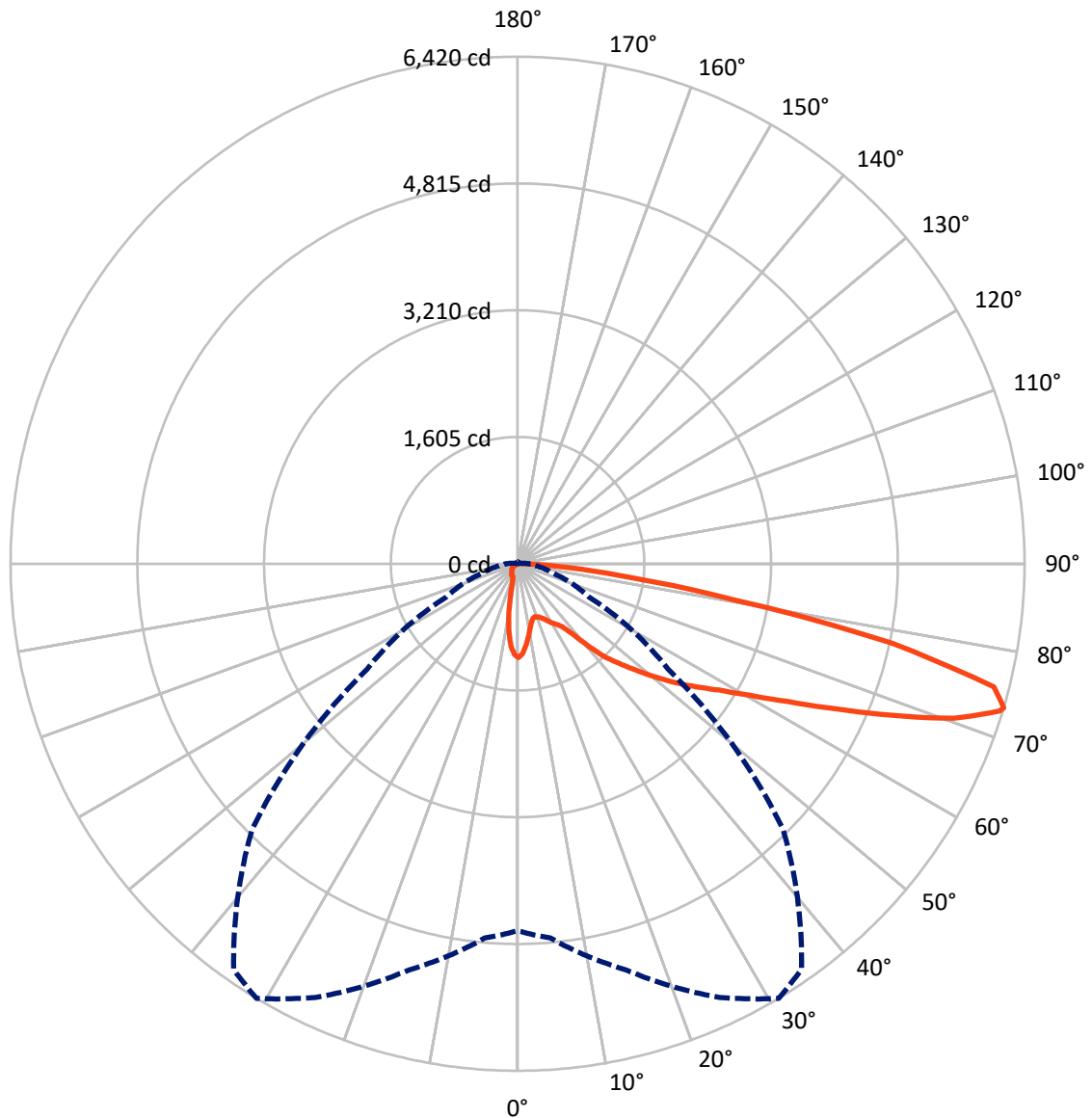
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P386458
CATALOG NUMBER: GAW-SA2A-760-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P386458
 CATALOG NUMBER: GAW-SA2A-760-U-T4FT-HSS

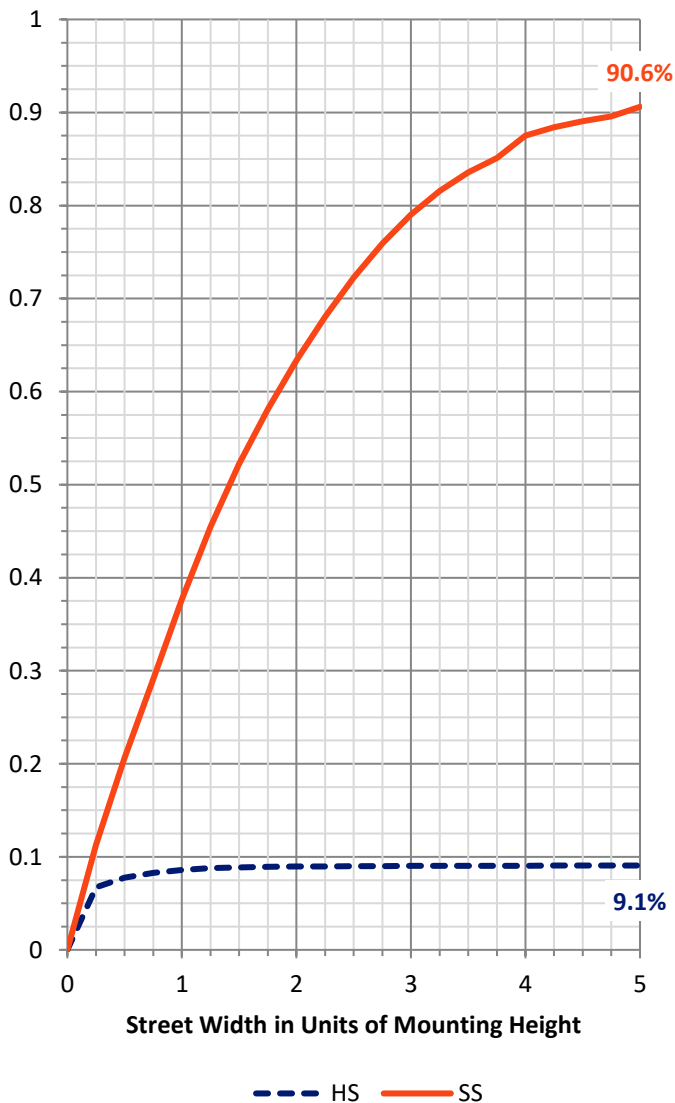
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 629.5 | 0.0 | 629.5 |
| | % Fixture | 9.1 | 0.0 | 9.1 |
| Street Side | Lumens | 6276.5 | 0.0 | 6276.5 |
| | % Fixture | 90.9 | 0.0 | 90.9 |
| Total | Lumens | 6906.0 | 0.0 | 6906.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 98.5 | 1.4 |
| 10°-20° | 213.9 | 3.1 |
| 20°-30° | 320.5 | 4.6 |
| 30°-40° | 509.9 | 7.4 |
| 40°-50° | 910.6 | 13.2 |
| 50°-60° | 1412.9 | 20.5 |
| 60°-70° | 1878.3 | 27.2 |
| 70°-80° | 1412.9 | 20.5 |
| 80°-90° | 148.5 | 2.1 |
| 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° | 6906.0 | 100.0 |
| 0°-180° | 6906.0 | 100.0 |

Coefficient of Utilization



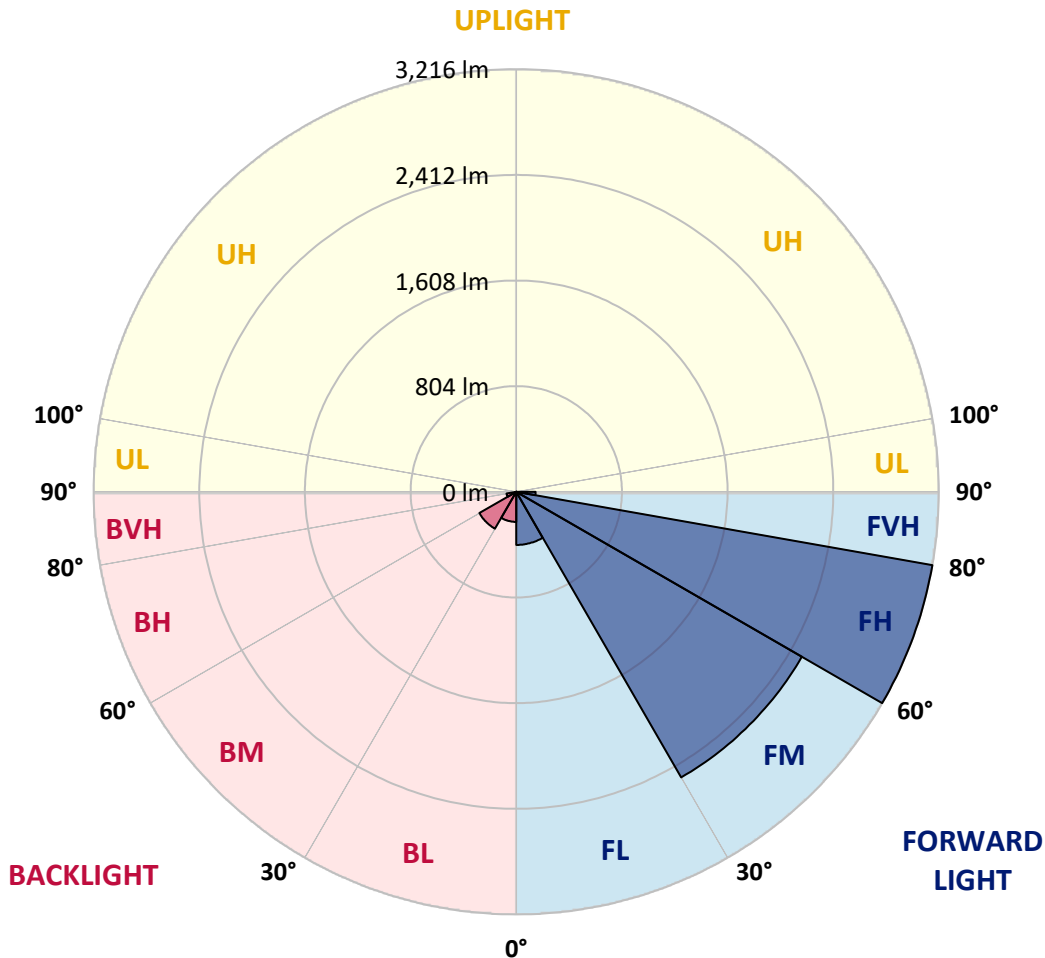
REPORT NUMBER: P386458
 CATALOG NUMBER: GAW-SA2A-760-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 404.0 | 5.9 | | | |
| FM (30°-60°) | 2509.4 | 36.3 | | | |
| FH (60°-80°) | 3215.9 | 46.6 | | | G2/5000 |
| FVH (80°-90°) | 147.2 | 2.1 | | | G2/225 |
| BL (0°-30°) | 228.9 | 3.3 | B1/500 | | |
| BM (30°-60°) | 324.0 | 4.7 | B1/1000 | | |
| BH (60°-80°) | 75.3 | 1.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P386458

CATALOG NUMBER: GAW-SA2A-760-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 31° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 |
| 2.5° | 1126.0 | 1130.7 | 1135.8 | 1136.8 | 1145.3 | 1145.6 | 1157.8 | 1166.9 | 1176.0 | 1184.8 | 1187.9 |
| 5° | 1010.4 | 1018.2 | 1027.3 | 1036.5 | 1054.4 | 1061.5 | 1091.2 | 1121.6 | 1150.7 | 1178.4 | 1191.9 |
| 7.5° | 887.1 | 895.9 | 908.7 | 931.4 | 951.3 | 965.2 | 1012.1 | 1066.2 | 1120.3 | 1171.3 | 1200.7 |
| 10° | 774.6 | 782.7 | 796.2 | 820.2 | 850.9 | 869.9 | 933.0 | 1008.1 | 1087.5 | 1164.9 | 1213.9 |
| 12.5° | 702.9 | 707.3 | 714.7 | 740.4 | 768.1 | 789.4 | 863.8 | 956.7 | 1060.5 | 1164.5 | 1235.2 |
| 15° | 689.7 | 691.1 | 685.0 | 696.5 | 718.1 | 738.7 | 814.1 | 915.1 | 1039.8 | 1169.9 | 1262.9 |
| 17.5° | 710.7 | 710.0 | 689.7 | 688.4 | 705.6 | 722.5 | 789.8 | 886.4 | 1025.3 | 1182.4 | 1298.7 |
| 20° | 742.5 | 740.1 | 704.9 | 698.5 | 716.8 | 732.7 | 788.1 | 875.6 | 1019.9 | 1203.4 | 1342.3 |
| 22.5° | 784.7 | 780.6 | 725.6 | 718.8 | 738.4 | 755.0 | 809.0 | 886.1 | 1024.6 | 1231.4 | 1393.0 |
| 25° | 837.1 | 831.0 | 761.0 | 753.6 | 773.5 | 790.1 | 846.5 | 916.2 | 1038.8 | 1265.6 | 1457.2 |
| 27.5° | 896.2 | 887.4 | 817.8 | 798.5 | 821.2 | 838.4 | 896.6 | 962.1 | 1061.1 | 1301.7 | 1535.9 |
| 30° | 952.0 | 940.5 | 877.6 | 845.9 | 873.6 | 892.8 | 950.6 | 1016.9 | 1096.9 | 1357.5 | 1643.7 |
| 32.5° | 1008.1 | 995.2 | 931.0 | 893.2 | 918.2 | 939.1 | 1006.4 | 1092.2 | 1164.2 | 1442.7 | 1787.0 |
| 35° | 1137.2 | 1123.6 | 1044.9 | 982.4 | 982.0 | 993.9 | 1084.4 | 1195.3 | 1253.1 | 1561.3 | 1958.0 |
| 37.5° | 1354.5 | 1346.7 | 1271.7 | 1153.0 | 1121.3 | 1108.1 | 1190.9 | 1318.3 | 1380.8 | 1724.5 | 2151.0 |
| 40° | 1592.4 | 1585.6 | 1501.5 | 1394.0 | 1345.7 | 1313.2 | 1343.6 | 1489.6 | 1561.3 | 1923.9 | 2348.0 |
| 42.5° | 1861.0 | 1828.9 | 1678.9 | 1646.8 | 1603.5 | 1578.8 | 1551.5 | 1700.8 | 1783.0 | 2140.8 | 2543.3 |
| 45° | 2105.0 | 2050.9 | 1856.3 | 1807.6 | 1797.8 | 1803.9 | 1819.1 | 1984.7 | 2032.4 | 2398.7 | 2738.0 |
| 47.5° | 2250.3 | 2207.8 | 2058.4 | 2011.7 | 2009.0 | 2049.3 | 2164.2 | 2305.4 | 2280.7 | 2623.4 | 2909.3 |
| 50° | 2388.5 | 2350.0 | 2226.0 | 2237.5 | 2250.0 | 2304.7 | 2555.8 | 2635.2 | 2507.5 | 2827.2 | 3066.5 |
| 52.5° | 2500.4 | 2441.6 | 2376.7 | 2441.3 | 2502.8 | 2591.0 | 2960.0 | 2931.3 | 2668.4 | 2989.4 | 3201.0 |
| 55° | 2565.0 | 2538.3 | 2569.7 | 2634.6 | 2750.1 | 2893.4 | 3341.5 | 3177.6 | 2786.0 | 3137.4 | 3290.5 |
| 57.5° | 2801.5 | 2749.1 | 2811.6 | 2867.7 | 3018.5 | 3218.9 | 3668.3 | 3361.1 | 2870.8 | 3229.0 | 3311.1 |
| 60° | 3087.7 | 3045.5 | 3082.3 | 3175.6 | 3379.0 | 3614.6 | 3973.8 | 3510.8 | 2915.1 | 3287.8 | 3257.7 |
| 62.5° | 3543.3 | 3487.5 | 3464.5 | 3569.0 | 3838.6 | 4095.8 | 4205.6 | 3614.6 | 2905.3 | 3261.8 | 3074.6 |
| 65° | 4153.6 | 4095.8 | 3993.1 | 4087.7 | 4430.7 | 4612.2 | 4464.8 | 3636.6 | 2837.7 | 3051.2 | 2611.6 |
| 67.5° | 4778.8 | 4736.9 | 4649.0 | 4808.5 | 5118.1 | 5176.5 | 4738.9 | 3583.2 | 2620.0 | 2474.0 | 1845.1 |
| 70° | 5191.7 | 5173.8 | 5230.9 | 5583.8 | 5859.9 | 5843.0 | 4990.3 | 3296.3 | 2042.2 | 1521.4 | 912.8 |
| 72.5° | 4894.0 | 4979.9 | 5401.6 | 6041.3 | 6378.6 | 6240.7 | 4861.2 | 2531.2 | 1167.2 | 585.3 | 263.9 |
| 73° | 4647.3 | 4757.2 | 5324.9 | 6058.6 | 6419.5 | 6268.4 | 4752.8 | 2323.3 | 994.9 | 462.0 | 200.1 |
| 75° | 3233.1 | 3367.9 | 4408.4 | 5642.6 | 6228.2 | 5972.4 | 3961.7 | 1422.0 | 460.9 | 204.8 | 80.8 |
| 77.5° | 1569.7 | 1669.4 | 2427.4 | 4076.9 | 4843.7 | 4666.3 | 2466.3 | 529.9 | 208.2 | 128.1 | 37.2 |
| 80° | 586.0 | 651.5 | 1053.7 | 2074.9 | 2799.1 | 2872.5 | 1084.8 | 200.4 | 138.6 | 103.1 | 18.9 |
| 82.5° | 153.4 | 171.0 | 388.6 | 925.3 | 1434.5 | 1501.5 | 342.0 | 101.0 | 101.4 | 84.8 | 11.5 |
| 85° | 49.0 | 56.1 | 121.3 | 415.3 | 675.9 | 593.4 | 89.2 | 49.0 | 73.7 | 63.2 | 6.4 |
| 87.5° | 6.1 | 7.8 | 38.5 | 97.7 | 149.0 | 82.8 | 13.9 | 14.5 | 31.4 | 35.1 | 3.7 |
| 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: P386458

CATALOG NUMBER: GAW-SA2A-760-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 |
| 2.5° | 1190.9 | 1189.2 | 1189.5 | 1180.8 | 1175.0 | 1163.5 | 1151.7 | 1146.3 | 1140.5 | 1138.2 | 1140.5 |
| 5° | 1197.0 | 1193.9 | 1185.2 | 1158.1 | 1129.4 | 1092.2 | 1057.4 | 1031.1 | 997.9 | 988.8 | 998.3 |
| 7.5° | 1206.4 | 1200.4 | 1174.7 | 1119.6 | 1055.7 | 984.8 | 905.0 | 846.9 | 799.2 | 768.5 | 779.6 |
| 10° | 1220.3 | 1208.8 | 1157.1 | 1063.5 | 949.3 | 823.6 | 710.3 | 622.1 | 559.6 | 533.9 | 532.9 |
| 12.5° | 1243.6 | 1222.0 | 1135.5 | 990.5 | 819.2 | 651.5 | 503.2 | 407.6 | 356.9 | 324.1 | 323.4 |
| 15° | 1269.3 | 1237.5 | 1108.1 | 903.0 | 667.8 | 466.7 | 324.1 | 251.4 | 218.6 | 208.2 | 206.8 |
| 17.5° | 1300.7 | 1255.4 | 1072.6 | 795.2 | 509.3 | 309.2 | 211.5 | 190.6 | 189.2 | 188.2 | 188.2 |
| 20° | 1340.3 | 1276.7 | 1027.0 | 671.8 | 361.3 | 206.5 | 179.8 | 181.1 | 181.8 | 180.5 | 180.8 |
| 22.5° | 1386.2 | 1298.4 | 972.6 | 539.3 | 244.3 | 172.7 | 172.0 | 173.7 | 174.4 | 173.7 | 174.0 |
| 25° | 1439.6 | 1323.4 | 906.4 | 400.5 | 176.4 | 163.9 | 165.6 | 168.0 | 169.6 | 169.6 | 169.6 |
| 27.5° | 1505.9 | 1353.8 | 826.6 | 279.5 | 152.4 | 154.8 | 159.5 | 163.9 | 166.3 | 166.9 | 166.9 |
| 30° | 1592.0 | 1391.6 | 731.0 | 191.6 | 138.6 | 142.6 | 151.4 | 159.8 | 164.2 | 164.9 | 165.3 |
| 32.5° | 1700.8 | 1434.2 | 620.1 | 141.6 | 126.7 | 129.8 | 139.2 | 153.4 | 161.9 | 163.2 | 163.2 |
| 35° | 1825.5 | 1483.5 | 500.8 | 123.3 | 118.3 | 119.3 | 126.7 | 142.9 | 157.8 | 161.5 | 161.9 |
| 37.5° | 1962.1 | 1532.2 | 380.9 | 115.2 | 111.2 | 111.2 | 116.6 | 130.4 | 148.0 | 159.5 | 160.9 |
| 40° | 2089.5 | 1561.6 | 267.0 | 108.8 | 104.8 | 104.8 | 109.5 | 119.6 | 136.2 | 153.4 | 157.1 |
| 42.5° | 2207.1 | 1571.8 | 185.9 | 102.7 | 98.7 | 99.7 | 103.7 | 111.9 | 124.4 | 141.6 | 145.0 |
| 45° | 2328.1 | 1570.1 | 135.5 | 95.6 | 92.6 | 95.6 | 98.7 | 104.8 | 113.9 | 123.7 | 124.4 |
| 47.5° | 2419.3 | 1555.9 | 107.5 | 88.9 | 86.9 | 90.9 | 93.6 | 97.7 | 102.7 | 102.1 | 102.1 |
| 50° | 2504.8 | 1521.4 | 86.5 | 79.8 | 81.1 | 85.8 | 87.2 | 88.5 | 88.9 | 82.5 | 81.8 |
| 52.5° | 2569.7 | 1467.7 | 69.3 | 70.0 | 75.4 | 80.1 | 78.7 | 76.7 | 73.3 | 65.6 | 64.2 |
| 55° | 2591.3 | 1364.3 | 54.4 | 57.8 | 66.9 | 73.0 | 67.9 | 63.5 | 57.1 | 50.7 | 49.3 |
| 57.5° | 2552.1 | 1230.8 | 44.3 | 44.9 | 56.4 | 61.5 | 55.8 | 50.7 | 43.6 | 38.2 | 37.2 |
| 60° | 2469.0 | 1082.4 | 36.5 | 33.8 | 43.6 | 48.0 | 44.3 | 39.2 | 32.8 | 28.7 | 28.4 |
| 62.5° | 2304.1 | 924.3 | 30.1 | 26.4 | 33.1 | 36.8 | 34.5 | 30.8 | 25.3 | 22.6 | 22.3 |
| 65° | 1957.3 | 739.4 | 24.3 | 21.3 | 25.7 | 28.7 | 26.7 | 24.0 | 19.9 | 17.9 | 17.6 |
| 67.5° | 1366.3 | 499.8 | 19.9 | 17.6 | 20.3 | 22.6 | 21.0 | 19.6 | 15.9 | 15.5 | 15.9 |
| 70° | 659.0 | 241.0 | 16.6 | 14.2 | 15.9 | 17.6 | 16.9 | 15.9 | 15.2 | 17.6 | 20.3 |
| 72.5° | 188.9 | 80.8 | 13.2 | 11.8 | 12.8 | 13.9 | 14.5 | 14.2 | 16.6 | 21.3 | 24.7 |
| 73° | 145.3 | 65.2 | 12.5 | 11.2 | 12.2 | 13.5 | 14.2 | 13.9 | 16.9 | 21.6 | 24.7 |
| 75° | 62.2 | 31.4 | 9.5 | 9.1 | 10.1 | 11.8 | 12.5 | 12.5 | 16.9 | 22.0 | 23.7 |
| 77.5° | 28.0 | 16.9 | 6.1 | 7.1 | 8.8 | 9.5 | 10.5 | 10.5 | 13.5 | 16.9 | 16.9 |
| 80° | 15.9 | 9.1 | 4.7 | 5.4 | 6.4 | 6.4 | 6.4 | 5.7 | 6.1 | 6.8 | 7.4 |
| 82.5° | 10.1 | 6.1 | 3.7 | 4.4 | 4.1 | 3.4 | 2.7 | 2.7 | 2.4 | 2.7 | 3.4 |
| 85° | 5.7 | 3.4 | 3.4 | 2.7 | 1.7 | 1.4 | 1.7 | 1.4 | 0.3 | 0.0 | 0.3 |
| 87.5° | 3.4 | 2.0 | 1.0 | 0.0 | 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)