

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: P386084

Luminaire Tested: GAW-SA1D-722-U-SLR-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1D-722-U-SLR-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2200K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4517 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

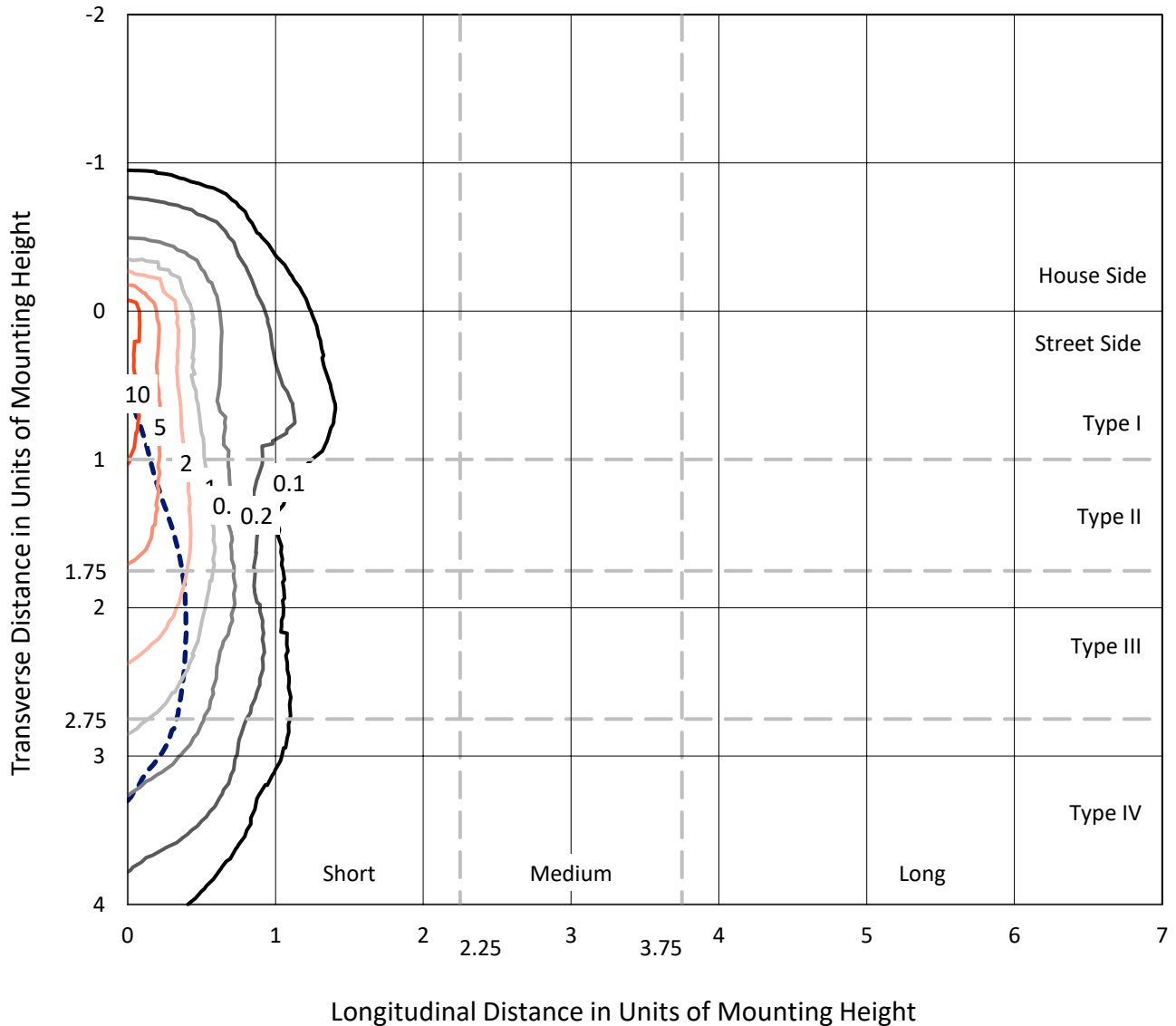
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

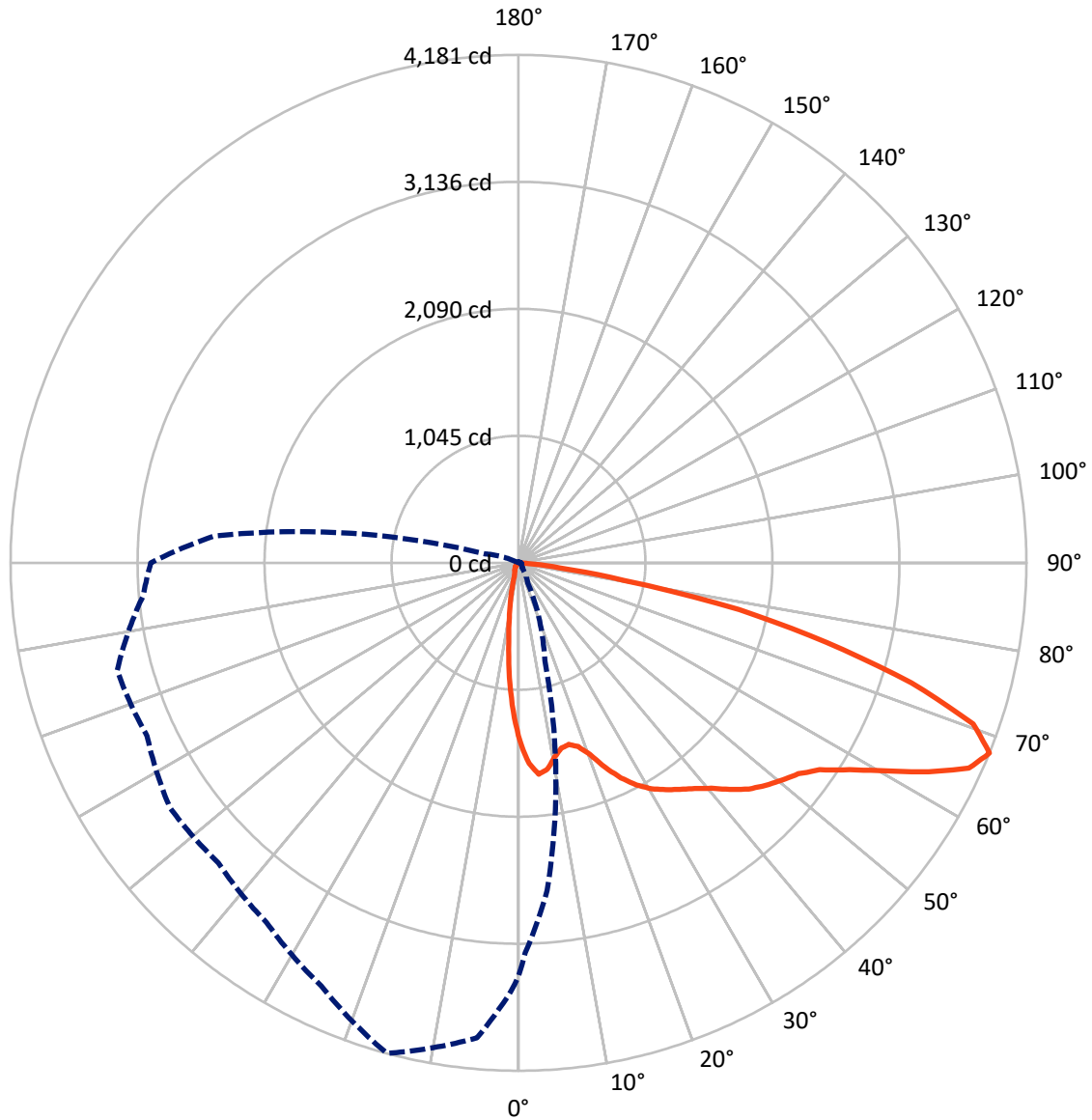
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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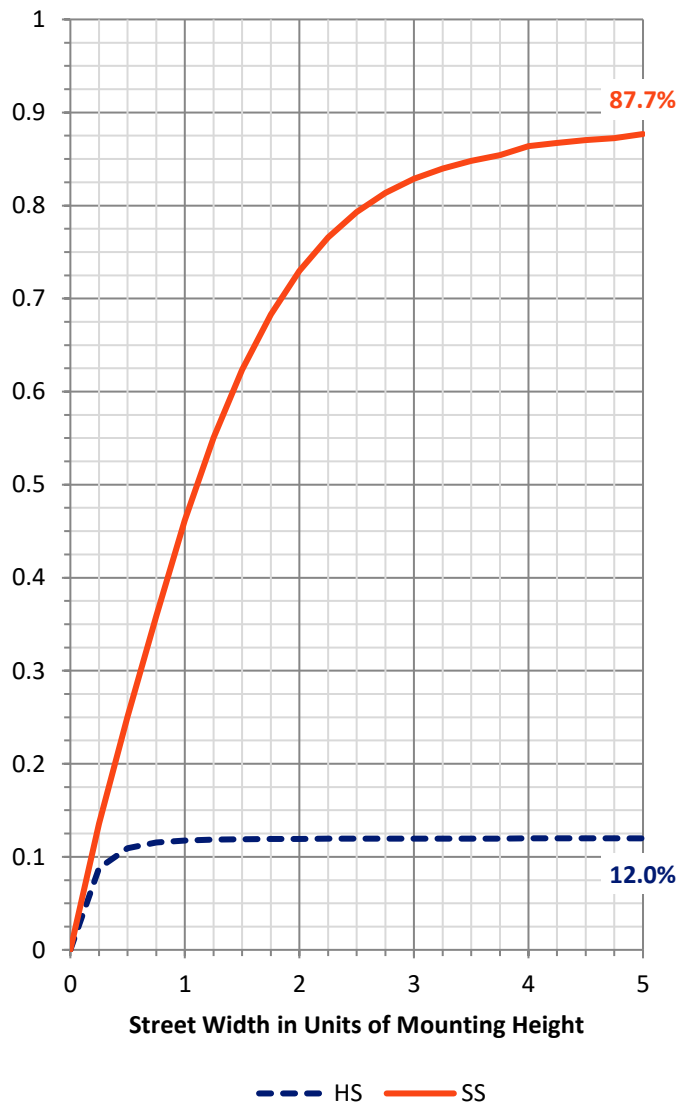
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 546.7 | 0.0 | 546.7 |
| | % Fixture | 12.1 | 0.0 | 12.1 |
| Street Side | Lumens | 3970.3 | 0.0 | 3970.3 |
| | % Fixture | 87.9 | 0.0 | 87.9 |
| Total | Lumens | 4517.0 | 0.0 | 4517.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 112.9 | 2.5 |
| 10°-20° | 224.8 | 5.0 |
| 20°-30° | 319.2 | 7.1 |
| 30°-40° | 471.5 | 10.4 |
| 40°-50° | 680.0 | 15.1 |
| 50°-60° | 954.5 | 21.1 |
| 60°-70° | 1112.7 | 24.6 |
| 70°-80° | 568.8 | 12.6 |
| 80°-90° | 72.6 | 1.6 |
| 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° | 4517.0 | 100.0 |
| 0°-180° | 4517.0 | 100.0 |

Coefficient of Utilization

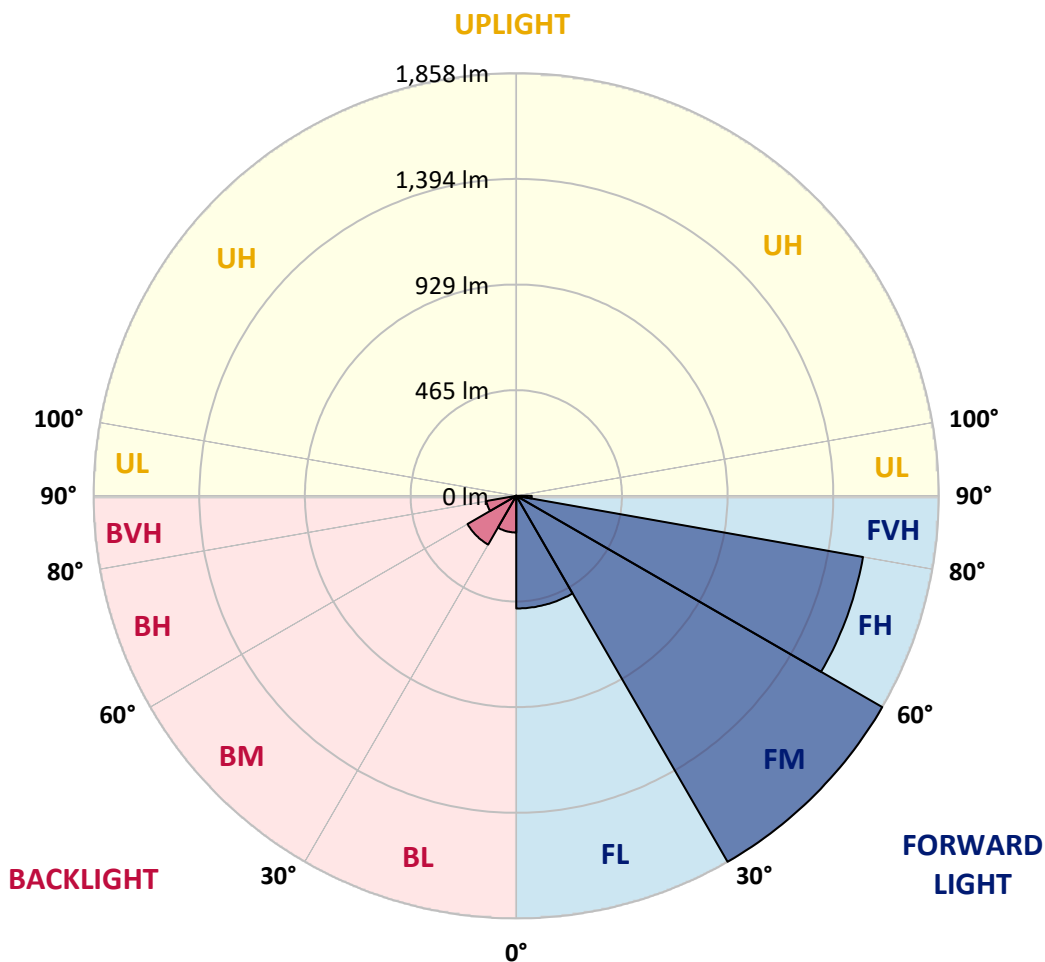


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 495.4 | 11.0 | | | |
| FM (30°-60°) | 1858.4 | 41.1 | | | |
| FH (60°-80°) | 1548.3 | 34.3 | | | G1/1800 |
| FVH (80°-90°) | 68.2 | 1.5 | | | G1/100 |
| BL (0°-30°) | 161.5 | 3.6 | B1/500 | | |
| BM (30°-60°) | 247.6 | 5.5 | B1/1000 | | |
| BH (60°-80°) | 133.2 | 2.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.4 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 |
| 2.5° | 1611.1 | 1598.7 | 1585.0 | 1540.3 | 1498.8 | 1451.3 | 1412.6 | 1385.6 | 1351.8 | 1307.9 | 1296.8 |
| 5° | 1599.6 | 1586.3 | 1543.3 | 1443.8 | 1356.7 | 1272.0 | 1190.2 | 1142.3 | 1082.8 | 1022.5 | 1007.5 |
| 7.5° | 1483.4 | 1469.5 | 1407.4 | 1271.1 | 1153.8 | 1031.4 | 925.3 | 859.6 | 792.4 | 737.2 | 707.9 |
| 10° | 1362.5 | 1347.3 | 1277.5 | 1112.1 | 967.7 | 857.0 | 779.1 | 716.4 | 652.9 | 593.8 | 546.7 |
| 12.5° | 1279.2 | 1259.3 | 1183.6 | 996.1 | 870.3 | 795.2 | 722.4 | 647.3 | 561.3 | 498.0 | 446.2 |
| 15° | 1244.4 | 1221.7 | 1141.6 | 951.4 | 835.9 | 747.7 | 652.9 | 560.7 | 459.9 | 387.3 | 339.8 |
| 17.5° | 1271.3 | 1241.8 | 1156.0 | 948.4 | 792.6 | 672.6 | 552.7 | 444.5 | 335.1 | 261.7 | 227.9 |
| 20° | 1362.9 | 1324.2 | 1215.3 | 947.6 | 740.2 | 583.3 | 431.4 | 309.0 | 220.8 | 177.6 | 159.9 |
| 22.5° | 1507.1 | 1456.0 | 1300.4 | 954.4 | 686.1 | 489.6 | 311.6 | 209.9 | 165.8 | 143.4 | 132.9 |
| 25° | 1681.3 | 1622.1 | 1423.0 | 978.6 | 638.6 | 398.5 | 226.4 | 165.8 | 140.0 | 123.5 | 114.7 |
| 27.5° | 1847.0 | 1798.8 | 1578.0 | 1013.5 | 601.7 | 324.8 | 183.8 | 140.6 | 119.6 | 108.7 | 101.6 |
| 30° | 2012.4 | 1951.8 | 1737.0 | 1055.0 | 557.4 | 275.0 | 161.6 | 128.2 | 107.2 | 95.7 | 91.2 |
| 32.5° | 2132.6 | 2082.3 | 1861.5 | 1084.9 | 510.2 | 242.5 | 144.4 | 117.3 | 100.1 | 88.4 | 81.7 |
| 35° | 2274.1 | 2217.2 | 1968.3 | 1091.6 | 479.8 | 221.9 | 129.9 | 105.5 | 86.9 | 76.4 | 69.3 |
| 37.5° | 2426.9 | 2356.0 | 2091.6 | 1077.0 | 456.0 | 211.9 | 119.0 | 100.1 | 81.1 | 70.4 | 62.9 |
| 40° | 2595.9 | 2515.9 | 2209.9 | 1056.0 | 432.7 | 208.4 | 110.6 | 96.1 | 76.6 | 65.7 | 58.0 |
| 42.5° | 2774.0 | 2679.6 | 2312.4 | 1034.0 | 417.9 | 196.7 | 109.8 | 92.0 | 73.2 | 61.4 | 53.7 |
| 45° | 2923.5 | 2827.9 | 2417.7 | 1026.7 | 407.4 | 183.8 | 113.4 | 89.2 | 70.8 | 58.0 | 50.5 |
| 47.5° | 3042.7 | 2952.2 | 2525.5 | 1043.0 | 401.4 | 172.0 | 103.4 | 92.9 | 69.5 | 55.0 | 47.7 |
| 50° | 3185.0 | 3082.5 | 2677.5 | 1091.6 | 392.7 | 160.3 | 93.5 | 106.4 | 69.5 | 53.1 | 45.4 |
| 52.5° | 3363.5 | 3262.1 | 2846.9 | 1166.9 | 375.1 | 144.0 | 84.1 | 106.6 | 70.2 | 50.5 | 42.4 |
| 55° | 3588.0 | 3514.4 | 3089.0 | 1249.5 | 347.1 | 120.0 | 72.8 | 91.6 | 67.6 | 45.8 | 39.6 |
| 57.5° | 3803.3 | 3743.1 | 3309.6 | 1306.0 | 309.6 | 93.7 | 63.3 | 73.8 | 61.8 | 40.2 | 35.3 |
| 59° | 3862.1 | 3796.4 | 3390.5 | 1308.6 | 281.6 | 81.7 | 58.6 | 61.0 | 60.6 | 37.7 | 32.7 |
| 60° | 3862.1 | 3792.4 | 3413.8 | 1294.9 | 261.3 | 75.1 | 55.6 | 54.4 | 63.1 | 36.0 | 31.2 |
| 62.5° | 3792.1 | 3694.1 | 3338.1 | 1202.2 | 213.1 | 64.0 | 48.6 | 44.9 | 56.7 | 32.3 | 27.6 |
| 65° | 3646.6 | 3503.9 | 3080.0 | 1034.6 | 190.0 | 58.6 | 41.9 | 36.8 | 39.4 | 28.5 | 24.2 |
| 67.5° | 3404.0 | 3210.5 | 2707.8 | 835.9 | 180.8 | 57.1 | 36.2 | 31.2 | 29.7 | 24.4 | 21.2 |
| 70° | 2976.6 | 2762.0 | 2256.1 | 657.2 | 172.9 | 56.5 | 30.4 | 26.3 | 24.0 | 20.5 | 18.0 |
| 72.5° | 2166.4 | 1942.6 | 1601.7 | 513.8 | 168.2 | 57.8 | 24.4 | 22.0 | 19.7 | 16.0 | 13.9 |
| 75° | 1239.2 | 1092.6 | 900.3 | 339.4 | 143.4 | 55.2 | 18.8 | 18.4 | 14.1 | 11.6 | 9.6 |
| 77.5° | 640.3 | 620.8 | 539.5 | 130.3 | 68.7 | 24.2 | 12.4 | 10.7 | 8.3 | 7.1 | 5.8 |
| 80° | 276.3 | 273.3 | 236.5 | 37.7 | 18.2 | 13.5 | 7.1 | 4.5 | 3.9 | 3.0 | 2.4 |
| 82.5° | 95.4 | 95.4 | 84.1 | 12.6 | 8.1 | 6.6 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 19.3 | 21.6 | 15.2 | 0.0 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 |
| 2.5° | 1283.3 | 1257.4 | 1255.7 | 1239.4 | 1219.1 | 1209.9 | 1204.6 | 1214.0 | 1225.5 | 1226.8 | 1244.1 |
| 5° | 996.1 | 969.0 | 980.3 | 951.4 | 957.2 | 951.4 | 942.0 | 943.7 | 948.8 | 932.8 | 952.7 |
| 7.5° | 699.5 | 679.0 | 692.0 | 684.3 | 694.6 | 698.7 | 692.9 | 684.3 | 659.1 | 656.1 | 673.4 |
| 10° | 527.3 | 503.9 | 490.0 | 475.5 | 478.7 | 485.3 | 483.2 | 477.0 | 460.9 | 461.8 | 478.5 |
| 12.5° | 423.7 | 397.6 | 370.0 | 334.3 | 325.5 | 330.4 | 325.5 | 321.8 | 306.4 | 307.7 | 322.5 |
| 15° | 321.4 | 300.0 | 271.1 | 242.5 | 226.8 | 228.3 | 214.6 | 205.0 | 195.4 | 183.8 | 192.8 |
| 17.5° | 217.0 | 203.9 | 195.4 | 186.8 | 168.2 | 163.9 | 146.6 | 128.0 | 120.7 | 115.3 | 119.2 |
| 20° | 153.6 | 146.6 | 143.2 | 142.7 | 132.0 | 126.7 | 109.8 | 98.2 | 94.6 | 93.5 | 95.9 |
| 22.5° | 128.4 | 123.3 | 118.3 | 115.6 | 110.2 | 104.0 | 91.2 | 85.4 | 82.8 | 81.5 | 83.2 |
| 25° | 111.7 | 107.9 | 102.7 | 98.0 | 95.9 | 89.2 | 80.0 | 75.8 | 74.0 | 72.8 | 73.6 |
| 27.5° | 99.3 | 95.9 | 89.9 | 86.9 | 85.2 | 79.4 | 71.5 | 68.0 | 66.6 | 66.1 | 65.9 |
| 30° | 89.4 | 86.2 | 80.7 | 77.3 | 74.3 | 69.1 | 64.4 | 61.0 | 59.5 | 59.1 | 58.6 |
| 32.5° | 79.6 | 77.0 | 73.4 | 70.0 | 66.8 | 62.1 | 58.0 | 55.2 | 52.9 | 52.4 | 52.2 |
| 35° | 67.2 | 64.6 | 62.7 | 62.5 | 59.5 | 55.0 | 52.0 | 48.4 | 46.4 | 45.8 | 46.0 |
| 37.5° | 59.7 | 56.3 | 52.0 | 53.5 | 52.6 | 49.4 | 45.4 | 41.7 | 39.8 | 39.4 | 39.4 |
| 40° | 55.0 | 51.4 | 46.4 | 43.9 | 46.4 | 45.8 | 39.4 | 35.7 | 33.8 | 33.6 | 33.2 |
| 42.5° | 50.5 | 46.9 | 41.3 | 37.0 | 38.3 | 40.2 | 34.0 | 30.6 | 28.7 | 28.2 | 27.6 |
| 45° | 47.3 | 43.4 | 37.2 | 32.3 | 29.7 | 33.8 | 29.1 | 24.8 | 23.8 | 22.9 | 22.5 |
| 47.5° | 44.3 | 40.7 | 33.6 | 28.0 | 23.8 | 24.4 | 23.3 | 20.3 | 19.0 | 18.2 | 18.0 |
| 50° | 41.7 | 37.9 | 30.4 | 24.0 | 19.7 | 18.0 | 18.8 | 16.0 | 15.0 | 14.1 | 13.7 |
| 52.5° | 38.7 | 35.1 | 27.0 | 20.8 | 16.5 | 14.1 | 14.3 | 12.6 | 11.6 | 10.9 | 10.7 |
| 55° | 36.4 | 32.7 | 24.2 | 18.2 | 14.6 | 11.6 | 10.3 | 9.8 | 9.2 | 8.8 | 8.6 |
| 57.5° | 33.2 | 29.7 | 21.4 | 15.4 | 12.4 | 9.4 | 7.9 | 7.9 | 7.7 | 7.3 | 7.1 |
| 59° | 31.2 | 28.2 | 19.7 | 13.9 | 11.3 | 8.1 | 7.1 | 7.3 | 7.1 | 6.6 | 6.4 |
| 60° | 29.7 | 27.0 | 18.4 | 12.8 | 10.7 | 7.5 | 6.4 | 6.8 | 6.6 | 6.2 | 6.0 |
| 62.5° | 26.3 | 24.4 | 15.8 | 10.7 | 9.4 | 6.0 | 5.3 | 5.8 | 5.8 | 5.6 | 5.3 |
| 65° | 23.1 | 21.0 | 13.5 | 9.0 | 8.8 | 5.1 | 4.3 | 5.1 | 5.3 | 4.9 | 4.5 |
| 67.5° | 20.1 | 18.0 | 11.8 | 7.3 | 8.1 | 4.1 | 3.2 | 4.3 | 5.8 | 4.5 | 4.1 |
| 70° | 17.1 | 15.0 | 9.2 | 5.8 | 8.6 | 2.8 | 2.6 | 3.9 | 6.8 | 4.9 | 3.9 |
| 72.5° | 13.3 | 11.6 | 6.4 | 4.3 | 9.2 | 1.9 | 1.9 | 3.2 | 7.7 | 5.3 | 3.6 |
| 75° | 9.2 | 7.5 | 3.9 | 2.6 | 7.5 | 1.3 | 1.3 | 3.0 | 7.3 | 4.9 | 3.4 |
| 77.5° | 5.3 | 4.1 | 1.3 | 0.2 | 3.9 | 0.0 | 0.2 | 2.1 | 5.1 | 3.0 | 1.5 |
| 80° | 1.9 | 0.9 | 0.0 | 0.0 | 2.4 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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 |



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 CATALOG NUMBER: GAW-SA1D-722-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 |
| 2.5° | 1248.6 | 1277.5 | 1303.4 | 1342.6 | 1389.0 | 1442.5 | 1488.5 | 1538.0 | 1584.4 | 1603.7 | 1616.9 |
| 5° | 956.8 | 992.5 | 1034.2 | 1091.8 | 1168.4 | 1262.8 | 1351.1 | 1451.1 | 1558.5 | 1612.2 | 1662.7 |
| 7.5° | 676.4 | 712.8 | 764.6 | 825.8 | 918.5 | 1030.8 | 1146.4 | 1284.4 | 1429.9 | 1514.8 | 1598.5 |
| 10° | 486.4 | 531.1 | 579.5 | 663.2 | 757.3 | 863.9 | 982.9 | 1136.9 | 1299.1 | 1393.3 | 1494.1 |
| 12.5° | 331.0 | 382.0 | 455.2 | 548.9 | 659.5 | 763.9 | 867.3 | 1014.3 | 1202.6 | 1295.9 | 1404.0 |
| 15° | 198.6 | 226.8 | 304.3 | 412.8 | 548.5 | 678.6 | 791.8 | 939.2 | 1139.9 | 1254.2 | 1366.5 |
| 17.5° | 122.4 | 135.5 | 177.6 | 266.6 | 409.2 | 573.7 | 728.9 | 913.7 | 1148.9 | 1288.0 | 1408.3 |
| 20° | 97.6 | 102.7 | 116.2 | 157.5 | 271.1 | 458.2 | 658.0 | 908.6 | 1222.3 | 1393.5 | 1522.5 |
| 22.5° | 84.7 | 89.7 | 98.7 | 114.5 | 170.6 | 343.0 | 590.8 | 913.3 | 1327.6 | 1551.7 | 1702.3 |
| 25° | 74.7 | 79.0 | 87.5 | 100.6 | 125.0 | 241.6 | 518.9 | 934.3 | 1464.8 | 1747.9 | 1907.9 |
| 27.5° | 66.8 | 70.4 | 78.3 | 90.3 | 107.2 | 168.6 | 437.4 | 959.8 | 1627.4 | 1948.6 | 2106.5 |
| 30° | 59.5 | 62.7 | 69.8 | 80.9 | 93.1 | 129.7 | 347.9 | 977.1 | 1790.3 | 2106.5 | 2248.4 |
| 32.5° | 53.3 | 55.6 | 62.1 | 71.5 | 80.9 | 103.4 | 264.5 | 974.3 | 1911.2 | 2237.9 | 2350.5 |
| 35° | 46.9 | 49.2 | 54.8 | 62.9 | 70.4 | 85.4 | 208.0 | 922.3 | 2016.4 | 2374.2 | 2467.3 |
| 37.5° | 39.8 | 42.8 | 48.1 | 55.4 | 60.6 | 75.1 | 168.2 | 859.6 | 2123.2 | 2530.0 | 2597.6 |
| 40° | 33.8 | 36.8 | 41.5 | 49.4 | 52.6 | 71.3 | 129.3 | 783.2 | 2243.3 | 2704.2 | 2740.6 |
| 42.5° | 28.0 | 30.8 | 35.7 | 42.6 | 49.6 | 61.4 | 95.7 | 695.9 | 2358.6 | 2853.1 | 2870.9 |
| 45° | 22.7 | 25.5 | 30.6 | 37.4 | 53.1 | 50.9 | 74.0 | 602.4 | 2451.7 | 2977.0 | 2982.8 |
| 47.5° | 18.0 | 20.5 | 25.9 | 35.3 | 49.4 | 40.7 | 52.9 | 529.0 | 2529.8 | 3073.8 | 3058.6 |
| 50° | 13.9 | 16.0 | 21.6 | 40.4 | 43.2 | 33.6 | 40.0 | 504.6 | 2599.8 | 3133.7 | 3094.3 |
| 52.5° | 10.9 | 12.8 | 17.8 | 37.9 | 33.6 | 27.8 | 33.6 | 527.5 | 2695.6 | 3183.3 | 3114.4 |
| 55° | 8.8 | 10.7 | 13.9 | 21.6 | 22.9 | 23.5 | 28.7 | 548.9 | 2861.1 | 3299.7 | 3233.2 |
| 57.5° | 7.3 | 9.2 | 11.3 | 15.2 | 17.3 | 19.9 | 25.5 | 551.2 | 3056.0 | 3493.2 | 3430.3 |
| 59° | 6.6 | 8.3 | 10.3 | 13.5 | 15.2 | 18.2 | 24.0 | 538.4 | 3124.7 | 3563.6 | 3532.1 |
| 60° | 6.2 | 7.9 | 9.6 | 12.4 | 14.1 | 17.1 | 23.1 | 526.2 | 3127.7 | 3561.0 | 3575.6 |
| 62.5° | 5.3 | 7.1 | 8.6 | 10.5 | 12.0 | 14.6 | 20.8 | 481.1 | 3001.0 | 3444.4 | 3549.5 |
| 65° | 4.7 | 6.2 | 7.7 | 9.0 | 10.3 | 13.1 | 18.8 | 398.7 | 2784.7 | 3256.3 | 3370.8 |
| 67.5° | 4.3 | 5.3 | 7.1 | 7.9 | 9.2 | 11.6 | 16.7 | 284.2 | 2514.4 | 3026.3 | 3100.5 |
| 70° | 3.9 | 5.1 | 6.4 | 7.3 | 8.3 | 10.1 | 14.3 | 163.3 | 2123.2 | 2689.4 | 2742.3 |
| 72.5° | 3.6 | 4.9 | 5.8 | 6.8 | 7.5 | 9.0 | 13.1 | 76.8 | 1554.6 | 2154.5 | 2292.5 |
| 75° | 3.2 | 4.5 | 5.3 | 6.4 | 7.1 | 8.1 | 11.1 | 36.8 | 1034.0 | 1559.1 | 1716.0 |
| 77.5° | 1.9 | 3.6 | 4.9 | 5.8 | 6.2 | 7.1 | 9.2 | 21.2 | 659.9 | 1079.2 | 1271.1 |
| 80° | 0.0 | 1.3 | 3.6 | 4.9 | 5.3 | 6.0 | 7.1 | 16.7 | 353.1 | 616.5 | 740.0 |
| 82.5° | 0.0 | 0.0 | 2.6 | 3.9 | 3.6 | 4.1 | 5.3 | 10.5 | 159.2 | 402.9 | 454.1 |
| 85° | 0.0 | 0.0 | 0.9 | 3.0 | 2.6 | 1.9 | 3.6 | 3.6 | 34.9 | 203.9 | 254.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.2 | 1.3 | 0.9 | 1.5 | 0.4 | 0.2 | 15.2 | 61.6 |
| 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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| 0° | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 |
| 2.5° | 1663.4 | 1679.2 | 1705.9 | 1718.6 | 1712.4 | 1686.0 | 1654.6 | 1622.5 | 1603.7 | 1611.1 |
| 5° | 1765.6 | 1847.2 | 1894.3 | 1909.9 | 1883.8 | 1824.7 | 1747.5 | 1645.6 | 1609.4 | 1599.6 |
| 7.5° | 1765.6 | 1919.1 | 2016.2 | 2033.3 | 1975.1 | 1859.4 | 1714.5 | 1555.5 | 1502.6 | 1483.4 |
| 10° | 1703.6 | 1912.4 | 2047.9 | 2075.1 | 1993.8 | 1820.6 | 1626.5 | 1445.1 | 1382.4 | 1362.5 |
| 12.5° | 1633.6 | 1858.5 | 2001.2 | 2038.7 | 1971.9 | 1782.1 | 1565.6 | 1370.4 | 1296.6 | 1279.2 |
| 15° | 1590.6 | 1792.2 | 1910.3 | 1937.5 | 1909.2 | 1759.7 | 1551.0 | 1347.9 | 1261.1 | 1244.4 |
| 17.5° | 1606.0 | 1740.8 | 1783.4 | 1799.2 | 1818.3 | 1751.7 | 1590.6 | 1397.1 | 1287.2 | 1271.3 |
| 20° | 1664.0 | 1686.7 | 1664.6 | 1684.5 | 1735.9 | 1759.4 | 1685.0 | 1516.1 | 1384.1 | 1362.9 |
| 22.5° | 1762.4 | 1658.6 | 1596.8 | 1604.7 | 1667.2 | 1784.9 | 1829.2 | 1686.0 | 1533.7 | 1507.1 |
| 25° | 1877.1 | 1681.3 | 1559.1 | 1552.1 | 1616.3 | 1818.5 | 1961.0 | 1870.9 | 1710.6 | 1681.3 |
| 27.5° | 2021.4 | 1732.3 | 1551.4 | 1544.4 | 1598.5 | 1850.0 | 2070.6 | 2053.7 | 1897.0 | 1847.0 |
| 30° | 2132.6 | 1782.3 | 1574.3 | 1558.1 | 1616.3 | 1871.8 | 2158.5 | 2208.8 | 2045.5 | 2012.4 |
| 32.5° | 2212.5 | 1841.4 | 1611.6 | 1588.0 | 1666.4 | 1909.4 | 2226.4 | 2350.9 | 2182.9 | 2132.6 |
| 35° | 2273.2 | 1905.6 | 1671.7 | 1633.0 | 1735.3 | 1966.6 | 2289.9 | 2502.2 | 2329.1 | 2274.1 |
| 37.5° | 2330.2 | 1995.7 | 1765.6 | 1719.4 | 1843.3 | 2058.6 | 2357.1 | 2673.8 | 2492.6 | 2426.9 |
| 40° | 2409.5 | 2097.8 | 1910.5 | 1869.4 | 2025.0 | 2184.0 | 2441.0 | 2852.7 | 2678.5 | 2595.9 |
| 42.5° | 2488.9 | 2207.3 | 2058.8 | 2069.9 | 2251.6 | 2336.4 | 2549.3 | 3041.9 | 2862.1 | 2774.0 |
| 45° | 2561.5 | 2320.3 | 2270.0 | 2321.4 | 2462.0 | 2503.5 | 2656.9 | 3151.2 | 3008.7 | 2923.5 |
| 47.5° | 2626.1 | 2461.5 | 2479.9 | 2616.7 | 2701.2 | 2654.8 | 2737.4 | 3245.6 | 3117.9 | 3042.7 |
| 50° | 2701.2 | 2644.3 | 2756.6 | 2950.1 | 2976.6 | 2791.7 | 2810.6 | 3357.3 | 3245.4 | 3185.0 |
| 52.5° | 2783.4 | 2836.9 | 3063.1 | 3233.6 | 3225.1 | 2940.5 | 2884.2 | 3482.5 | 3420.2 | 3363.5 |
| 55° | 2876.7 | 2992.5 | 3332.9 | 3499.0 | 3491.7 | 3106.5 | 3006.2 | 3637.2 | 3639.4 | 3588.0 |
| 57.5° | 3015.1 | 3126.4 | 3516.1 | 3713.6 | 3725.8 | 3298.2 | 3212.9 | 3810.5 | 3837.5 | 3803.3 |
| 59° | 3114.4 | 3213.3 | 3588.6 | 3803.3 | 3852.9 | 3446.5 | 3363.9 | 3911.1 | 3893.4 | 3862.1 |
| 60° | 3188.0 | 3268.5 | 3624.6 | 3850.1 | 3926.7 | 3547.1 | 3475.4 | 3970.2 | 3900.0 | 3862.1 |
| 62.5° | 3370.1 | 3388.8 | 3689.4 | 3903.2 | 4011.7 | 3770.5 | 3789.1 | 4070.8 | 3854.0 | 3792.1 |
| 65° | 3455.1 | 3464.7 | 3688.6 | 3808.2 | 3929.5 | 3944.5 | 4073.8 | 4073.8 | 3741.6 | 3646.6 |
| 67.5° | 3419.6 | 3373.1 | 3505.6 | 3493.2 | 3614.3 | 3841.1 | 4180.7 | 3924.4 | 3526.8 | 3404.0 |
| 70° | 3130.7 | 2952.0 | 2893.2 | 2898.5 | 2991.2 | 3341.0 | 3968.9 | 3484.8 | 3120.2 | 2976.6 |
| 72.5° | 2604.9 | 2176.3 | 2031.0 | 2196.8 | 2221.0 | 2567.7 | 3382.3 | 2624.4 | 2301.0 | 2166.4 |
| 75° | 2095.2 | 1534.1 | 1297.9 | 1472.9 | 1514.0 | 1879.1 | 2616.5 | 1634.5 | 1344.1 | 1239.2 |
| 77.5° | 1505.2 | 1101.2 | 931.3 | 919.1 | 972.2 | 1191.7 | 1856.6 | 822.6 | 686.1 | 640.3 |
| 80° | 855.1 | 724.8 | 780.4 | 736.3 | 763.1 | 745.1 | 882.1 | 360.8 | 295.5 | 276.3 |
| 82.5° | 516.1 | 428.4 | 463.9 | 386.3 | 488.8 | 425.6 | 339.8 | 115.6 | 100.4 | 95.4 |
| 85° | 335.8 | 234.1 | 122.0 | 81.7 | 168.4 | 272.0 | 76.0 | 31.5 | 24.2 | 19.3 |
| 87.5° | 115.8 | 59.7 | 6.0 | 2.6 | 18.0 | 50.7 | 2.8 | 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 |

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