

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: P385900

Luminaire Tested: GAW-SA1C-727-U-T4W-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P385900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1C-727-U-T4W-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4580 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

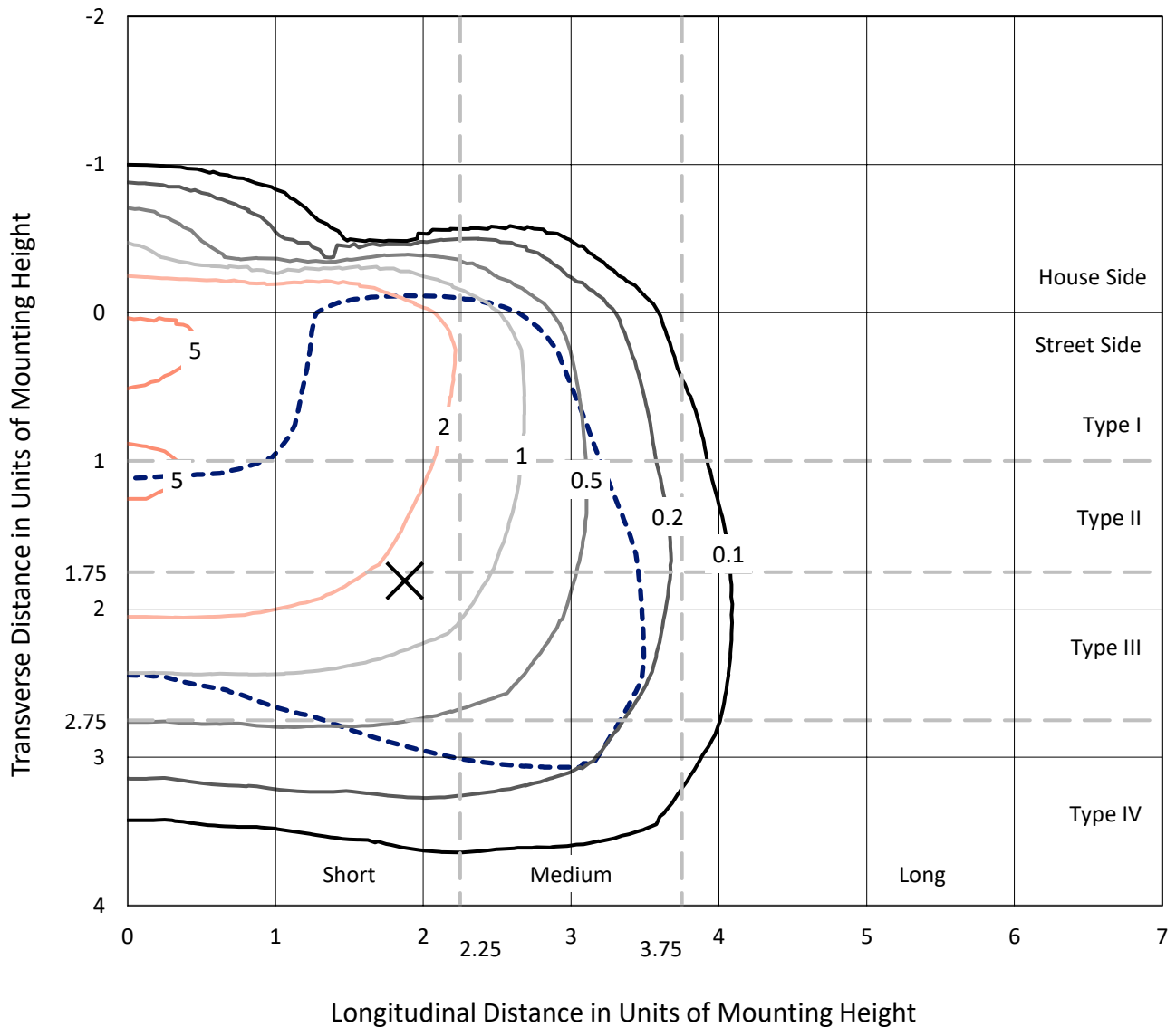
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

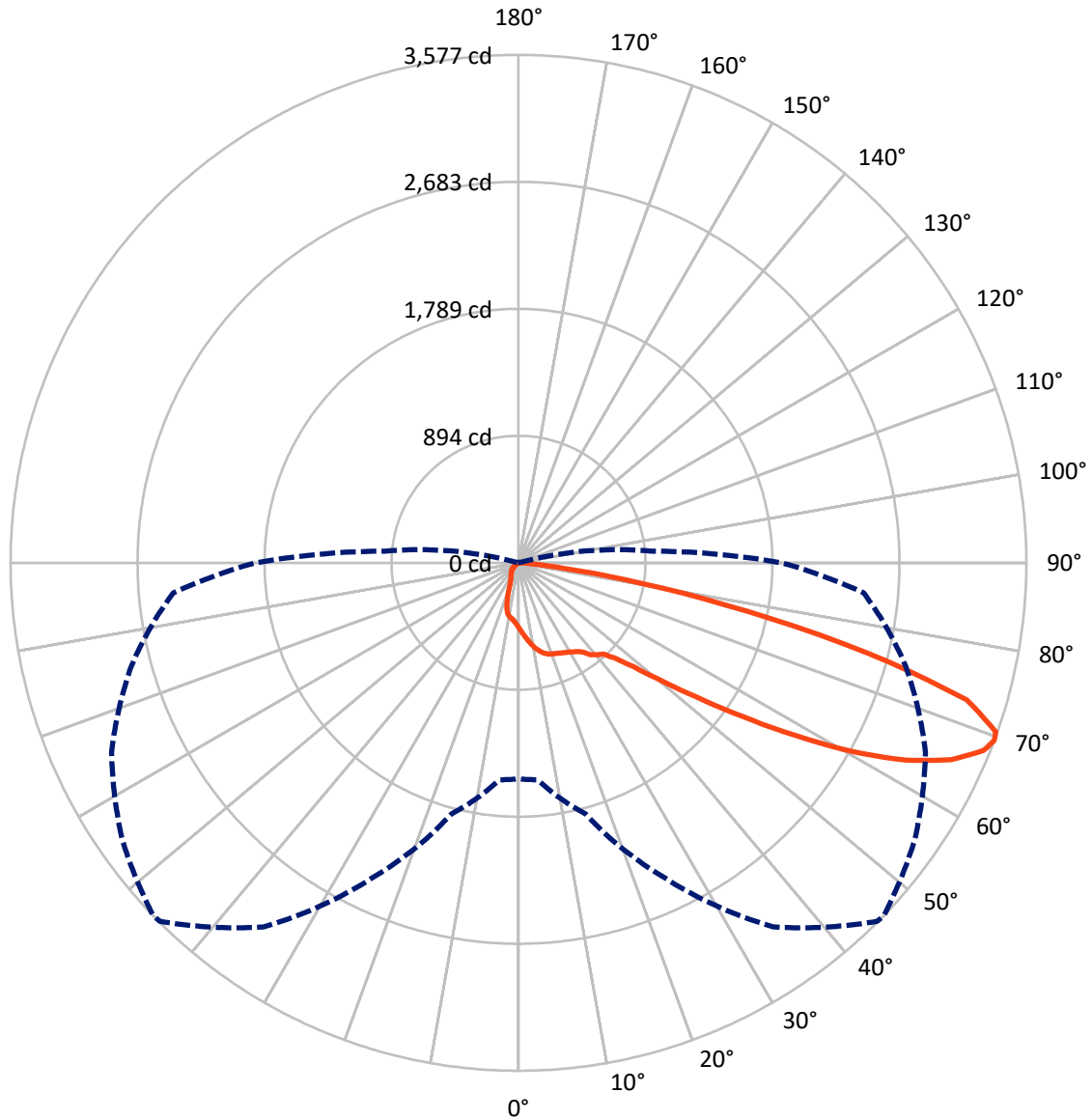
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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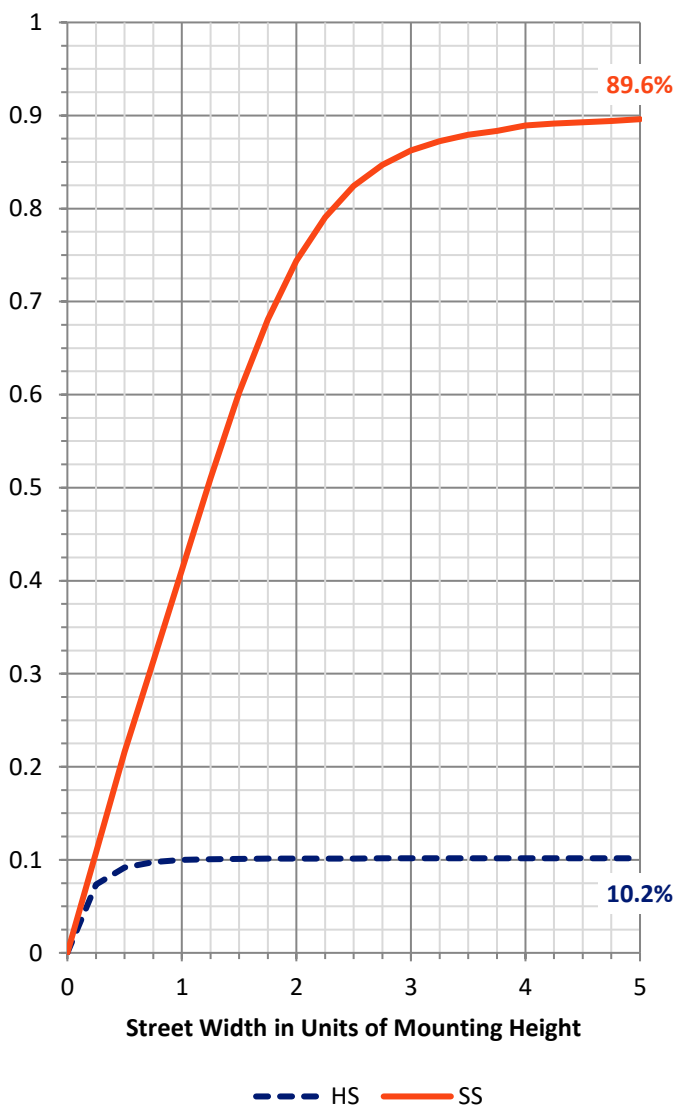
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 470.0 | 0.0 | 470.0 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 4110.0 | 0.0 | 4110.0 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 4580.0 | 0.0 | 4580.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 45.7 | 1.0 |
| 10°-20° | 138.6 | 3.0 |
| 20°-30° | 217.9 | 4.8 |
| 30°-40° | 312.5 | 6.8 |
| 40°-50° | 540.1 | 11.8 |
| 50°-60° | 1067.1 | 23.3 |
| 60°-70° | 1491.3 | 32.6 |
| 70°-80° | 720.5 | 15.7 |
| 80°-90° | 46.3 | 1.0 |
| 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° | 4580.0 | 100.0 |
| 0°-180° | 4580.0 | 100.0 |

Coefficient of Utilization



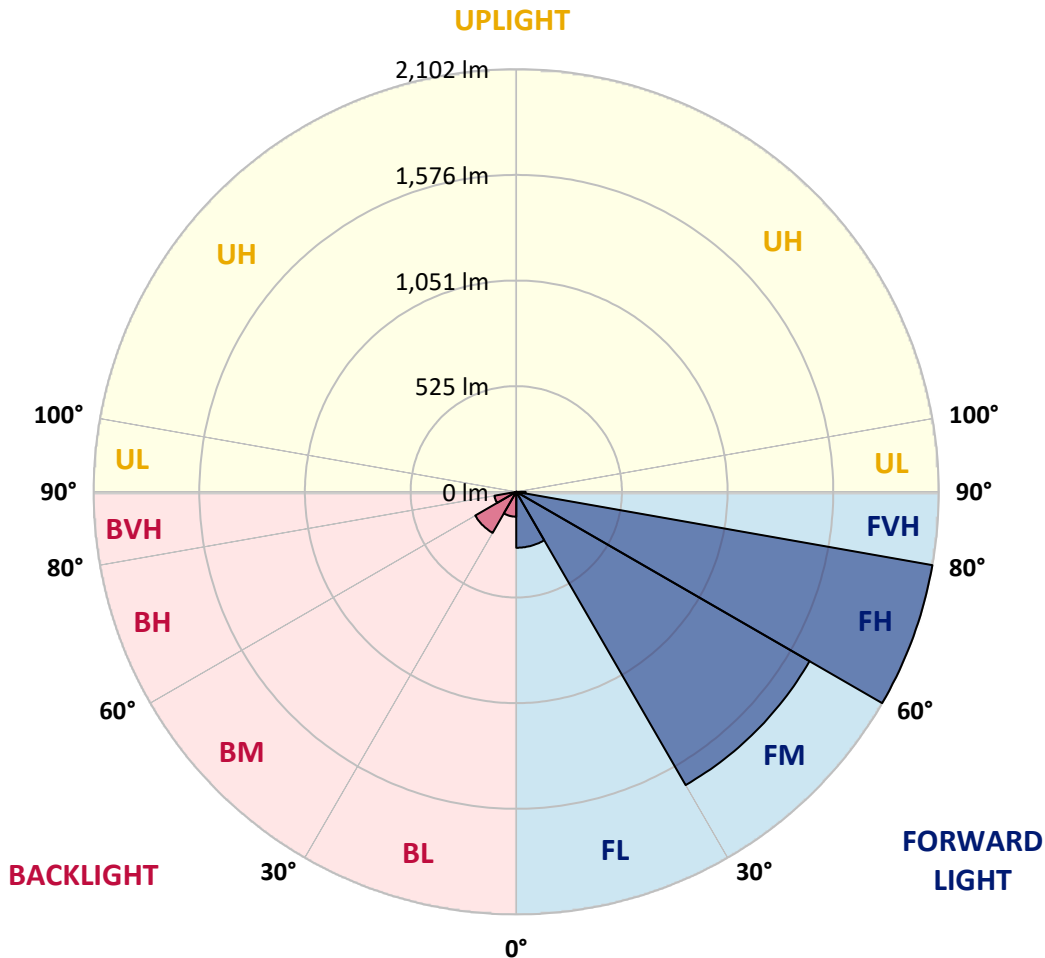
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 278.3 | 6.1 | | | |
| FM (30°-60°) | 1684.2 | 36.8 | | | |
| FH (60°-80°) | 2101.6 | 45.9 | | | G2/5000 |
| FVH (80°-90°) | 45.9 | 1.0 | | | G1/100 |
| BL (0°-30°) | 123.9 | 2.7 | B1/500 | | |
| BM (30°-60°) | 235.5 | 5.1 | B1/1000 | | |
| BH (60°-80°) | 110.2 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 |
| 2.5° | 509.8 | 509.1 | 506.1 | 504.9 | 497.6 | 493.3 | 491.5 | 486.2 | 478.4 | 470.7 | 462.1 |
| 5° | 567.8 | 567.6 | 562.0 | 556.6 | 542.9 | 530.0 | 527.6 | 515.2 | 497.8 | 481.4 | 465.1 |
| 7.5° | 627.0 | 624.2 | 618.7 | 608.4 | 588.4 | 567.8 | 565.8 | 548.2 | 523.5 | 499.9 | 476.5 |
| 10° | 677.3 | 675.6 | 668.3 | 652.6 | 629.2 | 605.8 | 603.4 | 581.7 | 553.8 | 524.8 | 495.0 |
| 12.5° | 716.4 | 715.1 | 705.4 | 685.9 | 661.0 | 636.7 | 633.5 | 614.2 | 584.3 | 551.9 | 516.7 |
| 15° | 740.2 | 739.6 | 727.8 | 706.9 | 682.4 | 661.4 | 658.6 | 641.6 | 613.9 | 580.0 | 540.3 |
| 17.5° | 745.8 | 746.0 | 733.8 | 712.7 | 692.5 | 677.5 | 675.4 | 662.5 | 639.3 | 605.6 | 563.9 |
| 20° | 733.3 | 735.9 | 725.0 | 706.7 | 694.3 | 686.3 | 684.6 | 676.9 | 657.3 | 625.5 | 582.8 |
| 22.5° | 715.7 | 717.0 | 709.5 | 697.3 | 692.1 | 693.6 | 692.8 | 688.5 | 671.9 | 642.7 | 601.5 |
| 25° | 705.0 | 705.0 | 700.5 | 690.2 | 693.6 | 702.8 | 703.1 | 702.2 | 689.1 | 663.8 | 624.2 |
| 27.5° | 704.6 | 703.3 | 698.1 | 690.4 | 699.8 | 714.0 | 714.9 | 720.7 | 712.5 | 689.3 | 652.6 |
| 30° | 721.7 | 720.2 | 709.3 | 699.2 | 711.2 | 726.5 | 728.6 | 741.3 | 737.2 | 717.0 | 684.2 |
| 32.5° | 761.9 | 756.5 | 732.3 | 715.7 | 724.7 | 743.0 | 745.8 | 766.0 | 772.4 | 751.2 | 714.7 |
| 35° | 816.9 | 799.9 | 764.9 | 747.1 | 747.9 | 767.1 | 769.6 | 799.3 | 818.4 | 782.5 | 738.3 |
| 37.5° | 892.7 | 884.3 | 827.4 | 779.7 | 783.6 | 812.6 | 820.1 | 852.3 | 846.9 | 799.7 | 765.1 |
| 40° | 1058.9 | 1045.8 | 985.2 | 871.2 | 817.7 | 849.5 | 851.9 | 869.1 | 869.5 | 838.6 | 821.0 |
| 42.5° | 1285.2 | 1279.8 | 1216.1 | 1037.2 | 884.9 | 874.2 | 878.5 | 907.5 | 939.9 | 920.6 | 919.7 |
| 45° | 1535.8 | 1533.0 | 1465.4 | 1257.5 | 1020.9 | 955.2 | 960.5 | 999.4 | 1061.5 | 1065.8 | 1093.0 |
| 47.5° | 1737.5 | 1736.2 | 1697.3 | 1503.4 | 1229.0 | 1092.4 | 1094.1 | 1135.3 | 1244.4 | 1298.3 | 1341.9 |
| 50° | 1921.3 | 1927.5 | 1896.8 | 1769.5 | 1512.4 | 1307.3 | 1303.3 | 1330.7 | 1506.0 | 1594.2 | 1648.3 |
| 52.5° | 2176.8 | 2185.6 | 2099.5 | 2017.7 | 1809.8 | 1574.0 | 1570.8 | 1599.6 | 1820.3 | 1886.5 | 1896.2 |
| 55° | 2402.5 | 2387.5 | 2319.4 | 2295.8 | 2172.5 | 1903.5 | 1902.6 | 1927.9 | 2124.4 | 2152.6 | 2170.4 |
| 57.5° | 2502.1 | 2496.3 | 2529.2 | 2583.3 | 2552.4 | 2292.8 | 2290.8 | 2271.5 | 2396.5 | 2399.5 | 2454.3 |
| 60° | 2565.1 | 2572.2 | 2672.9 | 2839.7 | 2916.8 | 2711.7 | 2699.3 | 2581.4 | 2656.3 | 2649.7 | 2708.3 |
| 62.5° | 2517.8 | 2531.8 | 2713.0 | 2991.1 | 3189.5 | 3077.4 | 3059.8 | 2865.3 | 2878.4 | 2855.4 | 2909.9 |
| 65° | 2267.0 | 2288.7 | 2585.7 | 2962.5 | 3324.8 | 3363.3 | 3345.4 | 3115.9 | 3054.7 | 3016.9 | 2986.6 |
| 67.5° | 1840.7 | 1853.6 | 2163.7 | 2714.1 | 3263.8 | 3533.8 | 3530.1 | 3335.6 | 3187.8 | 2989.6 | 2754.7 |
| 69° | 1521.2 | 1533.9 | 1832.4 | 2452.5 | 3129.6 | 3570.3 | 3577.3 | 3406.0 | 3162.5 | 2823.8 | 2440.7 |
| 70° | 1288.4 | 1302.0 | 1580.1 | 2228.4 | 2973.9 | 3553.3 | 3566.0 | 3399.3 | 3089.9 | 2631.9 | 2165.2 |
| 72.5° | 675.8 | 687.4 | 972.8 | 1535.2 | 2424.4 | 3262.8 | 3301.2 | 3112.0 | 2619.2 | 1911.4 | 1280.3 |
| 75° | 212.4 | 219.0 | 379.9 | 802.5 | 1659.9 | 2536.9 | 2545.7 | 2441.2 | 1859.9 | 1051.4 | 533.2 |
| 77.5° | 81.0 | 79.0 | 126.5 | 295.7 | 839.2 | 1597.4 | 1651.3 | 1525.5 | 976.0 | 371.7 | 123.0 |
| 80° | 43.6 | 43.8 | 65.7 | 122.4 | 359.0 | 821.0 | 866.5 | 739.3 | 346.8 | 116.0 | 28.3 |
| 82.5° | 18.9 | 19.8 | 36.9 | 64.9 | 164.9 | 302.8 | 325.5 | 271.0 | 132.5 | 78.0 | 10.5 |
| 85° | 4.1 | 4.5 | 17.8 | 35.2 | 67.2 | 85.0 | 89.1 | 87.8 | 84.4 | 60.6 | 4.1 |
| 87.5° | 0.0 | 0.0 | 7.9 | 12.7 | 17.0 | 19.3 | 17.0 | 22.1 | 46.6 | 40.8 | 2.1 |
| 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-SA1C-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 |
| 2.5° | 459.3 | 455.5 | 448.8 | 441.5 | 436.4 | 431.0 | 426.7 | 424.8 | 422.6 | 421.1 | 423.0 |
| 5° | 458.5 | 451.0 | 438.1 | 425.6 | 416.6 | 409.3 | 403.3 | 400.9 | 398.6 | 396.8 | 396.6 |
| 7.5° | 466.0 | 455.5 | 435.7 | 417.5 | 403.5 | 393.6 | 385.5 | 382.0 | 379.2 | 377.9 | 376.9 |
| 10° | 480.4 | 466.8 | 440.4 | 416.6 | 398.6 | 381.8 | 364.2 | 350.7 | 341.9 | 337.8 | 336.3 |
| 12.5° | 499.1 | 482.1 | 449.5 | 421.1 | 394.9 | 362.7 | 325.3 | 293.1 | 272.3 | 265.4 | 261.3 |
| 15° | 521.0 | 499.9 | 461.3 | 426.9 | 381.6 | 322.8 | 259.4 | 217.3 | 198.0 | 194.1 | 189.8 |
| 17.5° | 542.0 | 518.8 | 475.4 | 428.0 | 352.4 | 257.9 | 190.0 | 161.5 | 154.0 | 156.5 | 157.2 |
| 20° | 560.5 | 537.5 | 489.4 | 418.5 | 299.3 | 193.5 | 147.1 | 140.0 | 142.8 | 147.7 | 148.6 |
| 22.5° | 579.2 | 555.5 | 502.3 | 393.6 | 231.5 | 146.9 | 132.5 | 134.2 | 137.0 | 141.9 | 142.8 |
| 25° | 601.9 | 577.4 | 514.3 | 347.9 | 173.7 | 125.0 | 125.8 | 128.4 | 131.2 | 135.7 | 136.1 |
| 27.5° | 628.1 | 605.1 | 522.2 | 288.4 | 128.8 | 114.9 | 117.7 | 121.5 | 124.3 | 128.6 | 129.5 |
| 30° | 662.9 | 641.6 | 524.8 | 226.8 | 108.0 | 105.9 | 107.2 | 111.9 | 116.0 | 119.8 | 120.5 |
| 32.5° | 695.5 | 677.7 | 516.2 | 171.1 | 100.1 | 97.5 | 97.5 | 100.3 | 105.0 | 108.7 | 109.5 |
| 35° | 725.6 | 714.0 | 488.7 | 125.2 | 94.1 | 89.8 | 87.6 | 87.6 | 90.6 | 93.6 | 94.5 |
| 37.5° | 765.3 | 764.9 | 444.3 | 99.9 | 88.3 | 83.3 | 78.8 | 75.4 | 74.3 | 74.9 | 75.4 |
| 40° | 833.4 | 834.0 | 386.3 | 89.5 | 83.3 | 76.7 | 69.8 | 63.6 | 57.8 | 55.8 | 55.6 |
| 42.5° | 939.7 | 930.0 | 325.5 | 84.6 | 79.0 | 69.8 | 59.5 | 51.1 | 42.1 | 39.3 | 39.1 |
| 45° | 1108.5 | 1051.2 | 261.1 | 80.1 | 74.5 | 62.1 | 49.2 | 37.8 | 30.5 | 28.3 | 28.3 |
| 47.5° | 1354.4 | 1210.3 | 202.3 | 75.2 | 68.5 | 53.3 | 37.1 | 27.3 | 22.3 | 21.3 | 21.5 |
| 50° | 1608.6 | 1366.2 | 155.0 | 68.9 | 61.2 | 44.0 | 27.5 | 19.8 | 17.0 | 17.0 | 17.2 |
| 52.5° | 1834.1 | 1480.4 | 120.9 | 62.3 | 52.2 | 34.6 | 20.8 | 15.5 | 14.2 | 14.0 | 14.2 |
| 55° | 2045.2 | 1554.1 | 92.6 | 54.5 | 41.4 | 25.8 | 15.9 | 12.7 | 11.8 | 11.4 | 11.2 |
| 57.5° | 2248.8 | 1590.6 | 69.4 | 44.0 | 30.1 | 18.7 | 12.7 | 10.7 | 9.9 | 9.2 | 9.0 |
| 60° | 2384.3 | 1560.9 | 47.7 | 32.4 | 20.8 | 13.5 | 10.5 | 9.2 | 8.2 | 7.5 | 7.3 |
| 62.5° | 2460.7 | 1480.0 | 30.7 | 23.4 | 14.8 | 10.1 | 8.4 | 7.7 | 6.2 | 5.6 | 5.6 |
| 65° | 2429.8 | 1346.4 | 21.5 | 16.7 | 10.7 | 7.5 | 6.2 | 6.2 | 4.5 | 3.7 | 3.4 |
| 67.5° | 2153.2 | 1137.5 | 16.3 | 12.5 | 7.7 | 5.6 | 4.7 | 5.4 | 2.8 | 1.7 | 1.7 |
| 69° | 1852.6 | 942.7 | 14.0 | 10.3 | 6.4 | 4.5 | 4.1 | 4.9 | 1.9 | 1.3 | 1.1 |
| 70° | 1610.1 | 813.2 | 12.7 | 9.0 | 5.4 | 3.9 | 3.7 | 4.7 | 1.9 | 1.1 | 0.9 |
| 72.5° | 963.3 | 453.5 | 9.7 | 6.4 | 3.4 | 3.0 | 3.0 | 5.4 | 1.9 | 1.1 | 0.9 |
| 75° | 389.3 | 159.8 | 7.1 | 4.5 | 2.6 | 2.6 | 3.7 | 6.9 | 1.7 | 0.9 | 0.6 |
| 77.5° | 88.3 | 35.0 | 4.1 | 2.8 | 1.7 | 2.6 | 4.3 | 5.4 | 1.1 | 0.4 | 0.0 |
| 80° | 21.5 | 8.6 | 2.6 | 1.7 | 1.1 | 1.9 | 3.2 | 3.0 | 0.2 | 0.0 | 0.0 |
| 82.5° | 7.1 | 3.0 | 1.1 | 0.9 | 0.2 | 0.6 | 1.5 | 0.9 | 0.0 | 0.0 | 0.0 |
| 85° | 3.0 | 1.7 | 0.4 | 0.2 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.9 | 0.6 | 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 |

(END OF REPORT)