

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: P386950

Luminaire Tested: GAW-SA2C-830-U-SLL-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2C-830-U-SLL-HSS
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8695 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

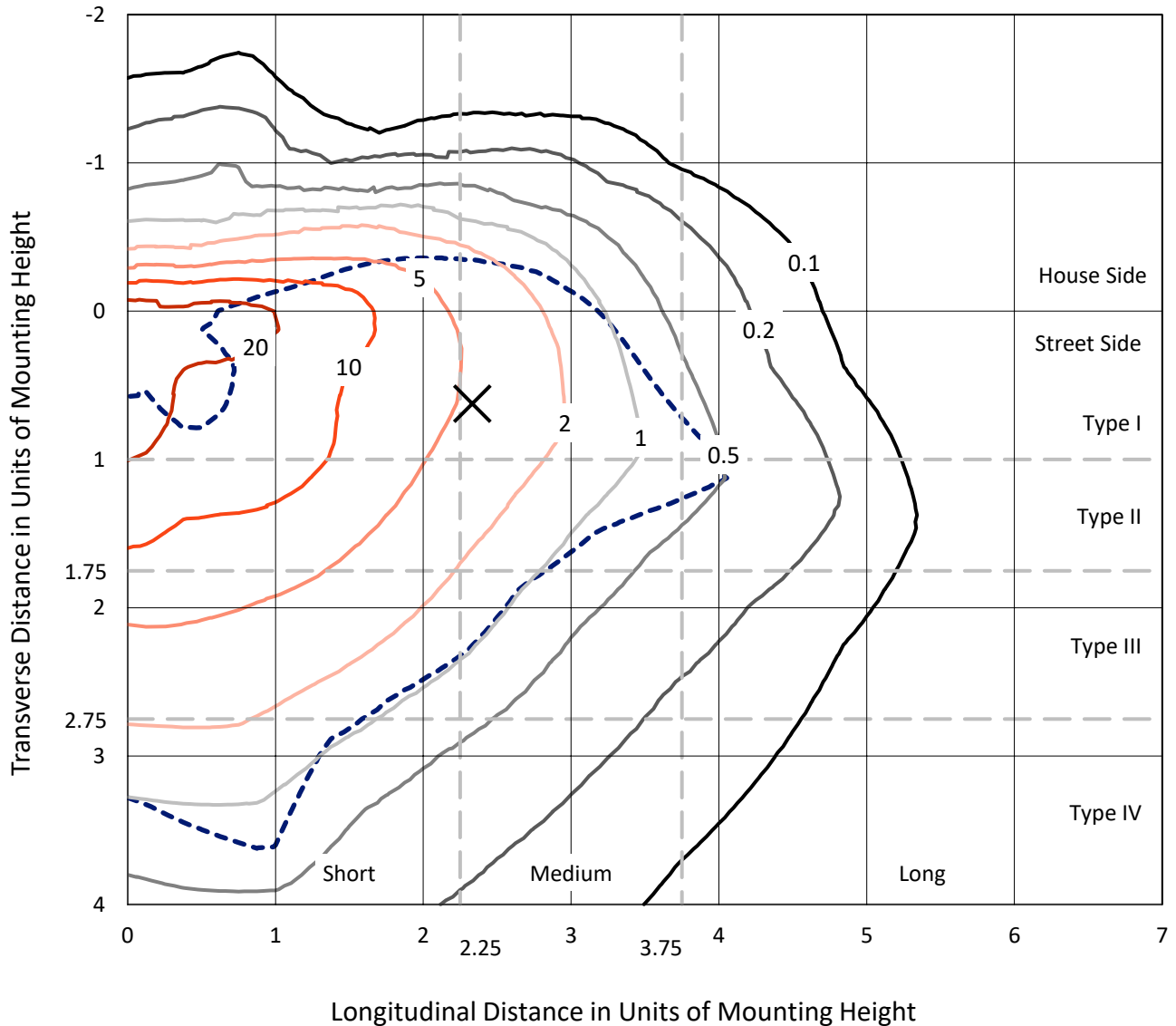
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

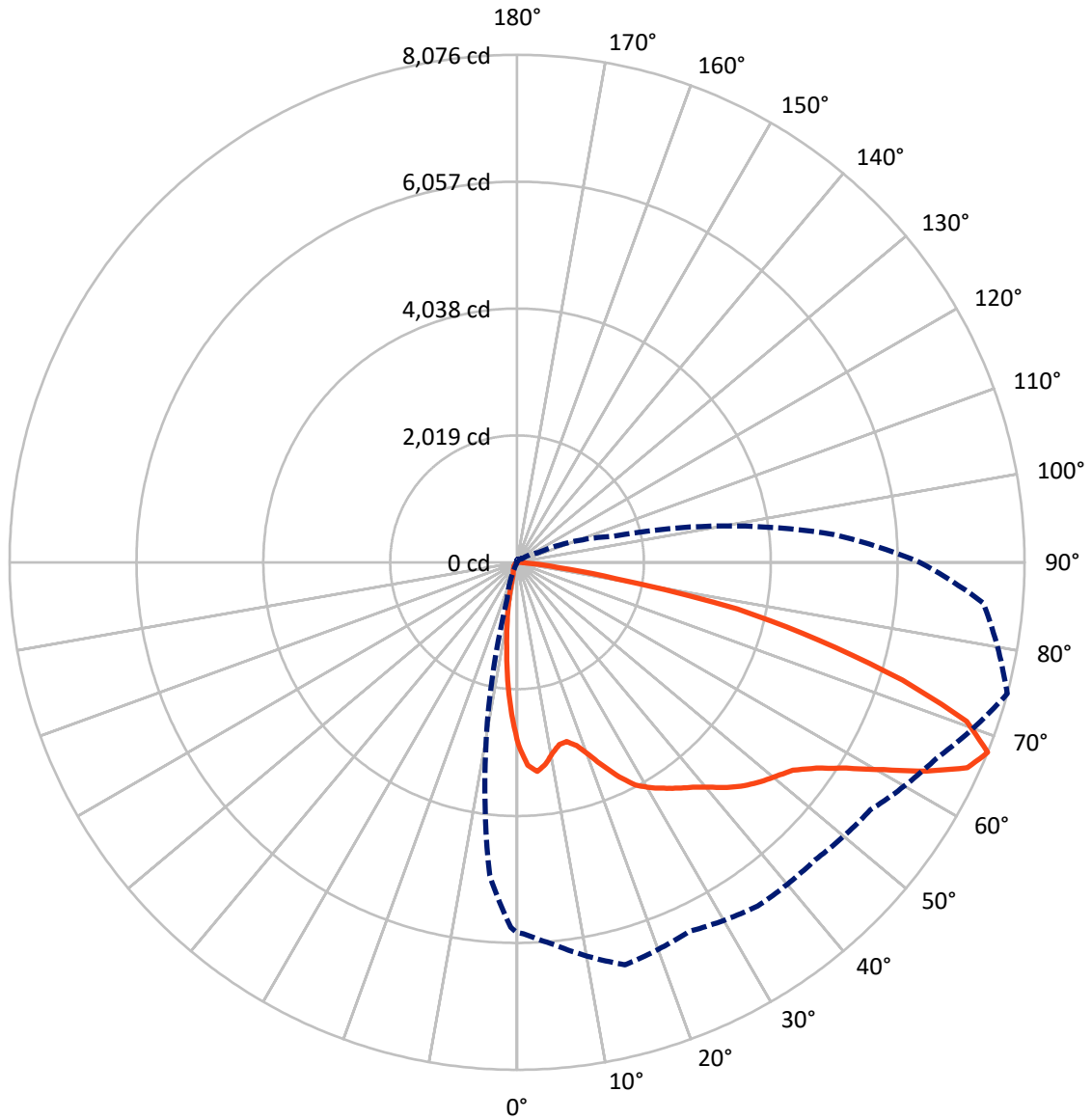
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 37.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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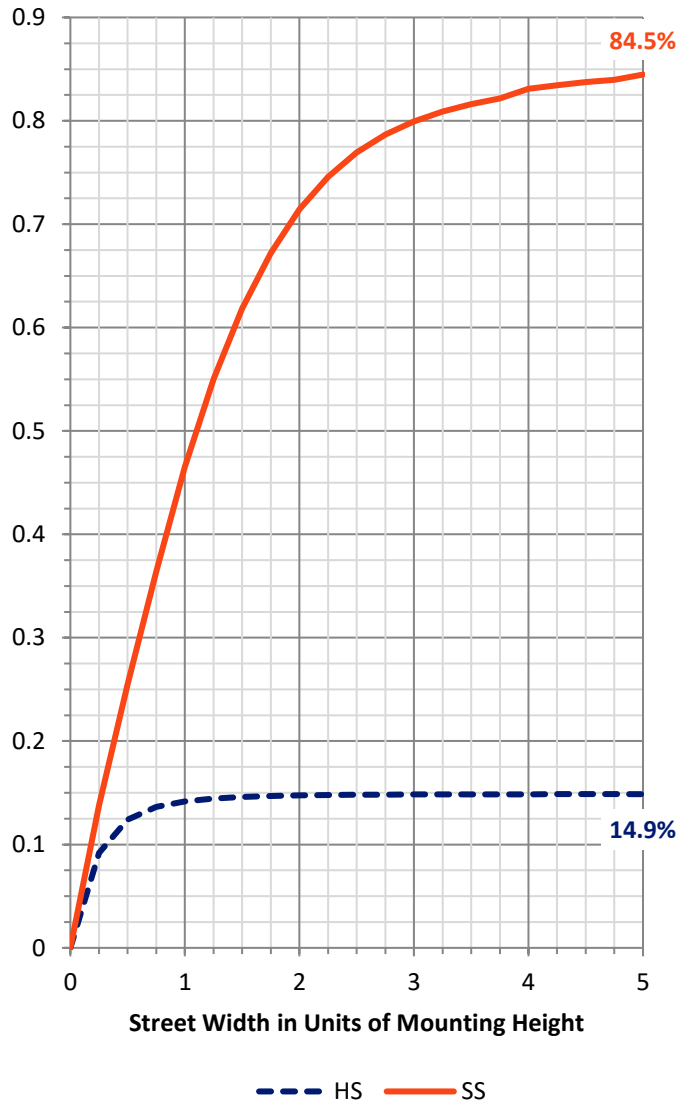
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1304.8 | 0.0 | 1304.8 |
| | % Fixture | 15.0 | 0.0 | 15.0 |
| Street Side | Lumens | 7390.2 | 0.0 | 7390.2 |
| | % Fixture | 85.0 | 0.0 | 85.0 |
| Total | Lumens | 8695.0 | 0.0 | 8695.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 221.3 | 2.5 |
| 10°-20° | 435.7 | 5.0 |
| 20°-30° | 616.4 | 7.1 |
| 30°-40° | 906.2 | 10.4 |
| 40°-50° | 1302.6 | 15.0 |
| 50°-60° | 1833.7 | 21.1 |
| 60°-70° | 2141.5 | 24.6 |
| 70°-80° | 1092.5 | 12.6 |
| 80°-90° | 145.1 | 1.7 |
| 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° | 8695.0 | 100.0 |
| 0°-180° | 8695.0 | 100.0 |

Coefficient of Utilization

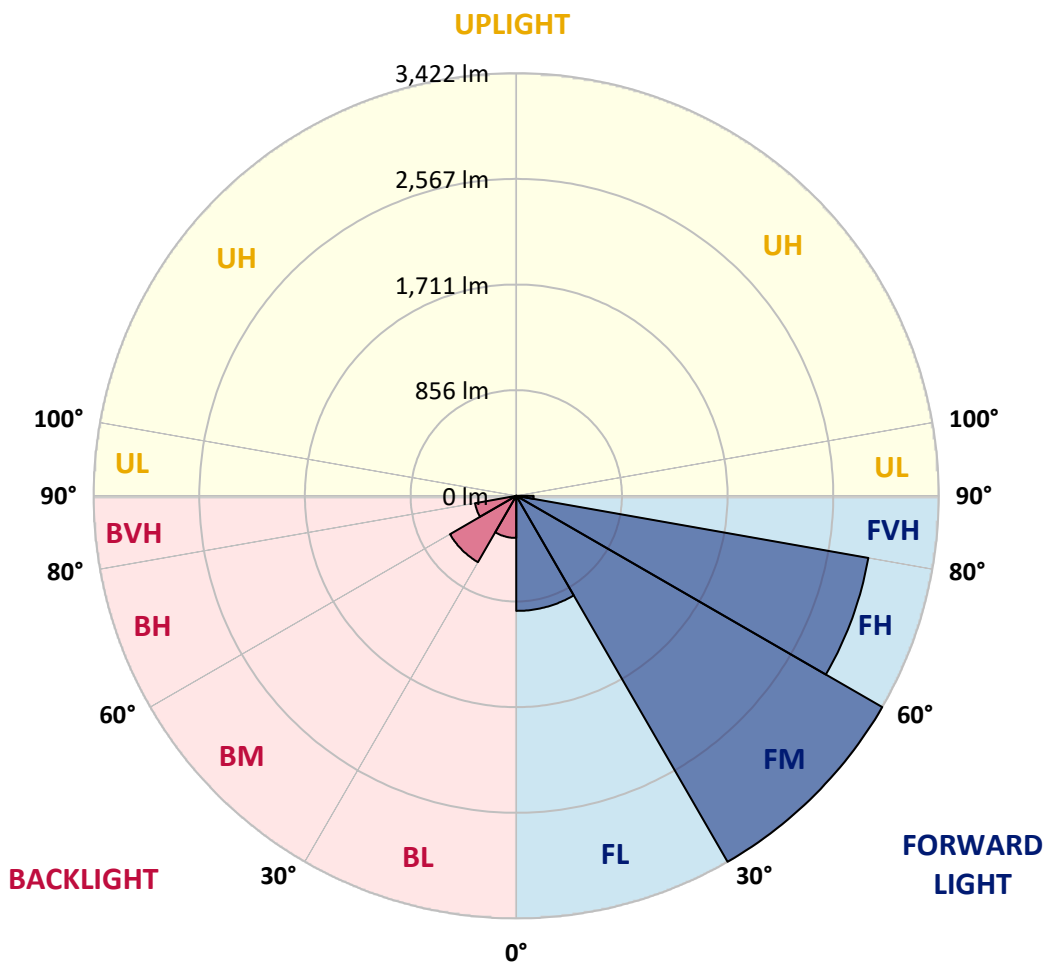


REPORT NUMBER: P386950
 CATALOG NUMBER: GAW-SA2C-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 932.1 | 10.7 | | | |
| FM (30°-60°) | 3422.2 | 39.4 | | | |
| FH (60°-80°) | 2895.2 | 33.3 | | | G2/5000 |
| FVH (80°-90°) | 140.7 | 1.6 | | | G2/225 |
| BL (0°-30°) | 341.2 | 3.9 | B1/500 | | |
| BM (30°-60°) | 620.2 | 7.1 | B1/1000 | | |
| BH (60°-80°) | 338.9 | 3.9 | 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-G2
 Type III Medium





REPORT NUMBER: P386950

CATALOG NUMBER: GAW-SA2C-830-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 |
| 2.5° | 3162.1 | 3167.0 | 3192.6 | 3251.9 | 3316.6 | 3321.5 | 3365.2 | 3320.3 | 3305.0 | 3232.5 | 3157.6 |
| 5° | 3186.0 | 3204.9 | 3292.7 | 3466.9 | 3618.1 | 3666.7 | 3701.3 | 3613.1 | 3520.4 | 3343.3 | 3154.3 |
| 7.5° | 2993.6 | 3025.4 | 3163.3 | 3490.4 | 3760.6 | 3880.0 | 3902.7 | 3764.7 | 3537.7 | 3246.1 | 2961.9 |
| 10° | 2747.3 | 2783.6 | 2950.0 | 3352.0 | 3723.1 | 3927.8 | 3959.1 | 3778.3 | 3452.1 | 3088.8 | 2753.9 |
| 12.5° | 2548.0 | 2590.4 | 2760.5 | 3196.3 | 3594.2 | 3820.7 | 3882.5 | 3732.6 | 3377.9 | 2977.2 | 2611.8 |
| 15° | 2456.1 | 2504.7 | 2683.5 | 3095.8 | 3451.2 | 3629.6 | 3680.7 | 3616.0 | 3336.7 | 2959.4 | 2578.9 |
| 17.5° | 2508.8 | 2561.6 | 2746.1 | 3104.4 | 3317.0 | 3393.2 | 3434.4 | 3460.7 | 3336.7 | 3066.1 | 2675.2 |
| 20° | 2725.1 | 2781.9 | 2977.2 | 3192.2 | 3205.8 | 3177.3 | 3221.4 | 3314.1 | 3375.5 | 3268.8 | 2906.7 |
| 22.5° | 3024.1 | 3090.8 | 3311.2 | 3342.5 | 3151.4 | 3043.9 | 3049.7 | 3195.1 | 3445.9 | 3525.8 | 3228.0 |
| 25° | 3388.6 | 3470.2 | 3694.3 | 3566.6 | 3174.0 | 2964.4 | 2962.3 | 3097.0 | 3514.7 | 3783.2 | 3585.9 |
| 27.5° | 3750.7 | 3840.5 | 4037.4 | 3840.1 | 3267.5 | 2950.0 | 2945.9 | 3067.4 | 3581.8 | 4012.2 | 3976.8 |
| 30° | 4054.3 | 4141.6 | 4311.3 | 4038.2 | 3368.5 | 2983.8 | 2964.0 | 3099.1 | 3621.8 | 4160.9 | 4261.9 |
| 32.5° | 4301.4 | 4371.4 | 4508.6 | 4174.5 | 3476.4 | 3049.2 | 3006.4 | 3183.9 | 3689.7 | 4286.6 | 4523.8 |
| 35° | 4573.2 | 4647.0 | 4701.8 | 4304.3 | 3597.5 | 3143.6 | 3082.2 | 3318.6 | 3794.4 | 4414.3 | 4810.9 |
| 37.5° | 4883.4 | 4956.7 | 4950.1 | 4422.9 | 3751.1 | 3299.7 | 3260.5 | 3532.0 | 3957.1 | 4540.7 | 5131.4 |
| 40° | 5187.0 | 5261.9 | 5208.4 | 4552.6 | 3931.5 | 3557.1 | 3528.3 | 3852.4 | 4174.9 | 4702.6 | 5507.0 |
| 42.5° | 5471.2 | 5552.3 | 5437.8 | 4675.4 | 4146.5 | 3881.7 | 3931.1 | 4265.1 | 4447.6 | 4901.9 | 5830.8 |
| 45° | 5700.2 | 5783.0 | 5630.2 | 4794.8 | 4373.1 | 4275.4 | 4424.1 | 4722.3 | 4775.5 | 5070.4 | 6049.5 |
| 47.5° | 5866.6 | 5944.8 | 5763.6 | 4914.3 | 4663.0 | 4756.9 | 5016.0 | 5201.8 | 5071.6 | 5216.6 | 6204.8 |
| 50° | 5972.9 | 6033.8 | 5802.7 | 5063.8 | 5043.6 | 5318.8 | 5632.6 | 5723.2 | 5350.5 | 5348.4 | 6393.4 |
| 52.5° | 6040.4 | 6068.0 | 5831.6 | 5219.9 | 5440.7 | 5930.4 | 6236.5 | 6264.9 | 5637.6 | 5493.4 | 6647.5 |
| 55° | 6273.1 | 6295.4 | 6035.9 | 5409.0 | 5769.0 | 6466.3 | 6782.6 | 6756.3 | 5962.6 | 5777.2 | 6947.4 |
| 57.5° | 6670.2 | 6693.7 | 6458.1 | 5680.8 | 6034.6 | 6797.5 | 7178.5 | 7225.8 | 6343.6 | 6175.9 | 7268.7 |
| 60° | 6869.5 | 6913.2 | 6829.2 | 6025.2 | 6292.1 | 7009.2 | 7448.3 | 7599.4 | 6819.7 | 6701.5 | 7580.1 |
| 62.5° | 6688.7 | 6752.2 | 6874.1 | 6407.0 | 6547.9 | 7125.7 | 7532.3 | 7733.3 | 7307.4 | 7314.0 | 7772.0 |
| 65° | 6327.9 | 6378.6 | 6585.3 | 6616.2 | 6696.1 | 7111.3 | 7324.7 | 7546.3 | 7606.0 | 7876.6 | 7761.7 |
| 67.5° | 5892.1 | 5911.1 | 6086.5 | 6632.7 | 6481.1 | 6678.0 | 6701.1 | 6865.0 | 7370.0 | 8076.0 | 7449.9 |
| 70° | 5264.8 | 5275.1 | 5428.3 | 6081.2 | 5569.6 | 5612.9 | 5578.7 | 5612.0 | 6336.1 | 7590.4 | 6662.8 |
| 72.5° | 4237.1 | 4263.1 | 4481.0 | 5050.2 | 4057.6 | 3932.8 | 4201.3 | 4186.5 | 4879.7 | 6412.8 | 4948.5 |
| 75° | 3119.7 | 3164.6 | 3493.7 | 4067.9 | 2847.8 | 2576.0 | 2772.0 | 2824.3 | 3469.0 | 4960.4 | 3094.5 |
| 77.5° | 2184.3 | 2217.6 | 2536.4 | 2990.3 | 2061.1 | 1842.0 | 1771.1 | 1833.3 | 2289.7 | 3588.4 | 1559.0 |
| 80° | 1258.3 | 1270.7 | 1474.2 | 1726.7 | 1388.9 | 1589.1 | 1439.6 | 1482.4 | 1372.0 | 1596.5 | 670.6 |
| 82.5° | 823.4 | 825.4 | 904.9 | 1027.7 | 865.0 | 1005.0 | 743.9 | 951.1 | 844.0 | 641.3 | 218.3 |
| 85° | 444.8 | 447.3 | 524.8 | 729.5 | 489.7 | 276.8 | 162.7 | 334.0 | 521.9 | 147.0 | 59.7 |
| 87.5° | 49.0 | 44.9 | 158.2 | 265.3 | 135.9 | 25.1 | 8.6 | 37.5 | 83.6 | 9.5 | 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-SA2C-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 |
| 2.5° | 3119.3 | 3085.1 | 2999.8 | 2909.6 | 2837.1 | 2769.2 | 2700.8 | 2617.2 | 2552.5 | 2539.3 | 2517.9 |
| 5° | 3052.5 | 2944.2 | 2765.4 | 2585.9 | 2441.3 | 2258.8 | 2143.1 | 2052.9 | 1964.7 | 1959.4 | 1941.7 |
| 7.5° | 2819.4 | 2676.9 | 2425.2 | 2176.9 | 1973.4 | 1799.6 | 1624.1 | 1506.7 | 1414.4 | 1381.9 | 1362.5 |
| 10° | 2595.3 | 2435.1 | 2120.8 | 1837.5 | 1655.8 | 1502.2 | 1378.6 | 1255.9 | 1144.6 | 1068.0 | 1033.4 |
| 12.5° | 2438.8 | 2261.7 | 1915.3 | 1671.0 | 1540.9 | 1395.1 | 1244.3 | 1091.1 | 963.0 | 870.7 | 814.3 |
| 15° | 2378.3 | 2189.2 | 1846.5 | 1605.1 | 1444.5 | 1260.0 | 1067.2 | 892.2 | 750.1 | 666.4 | 615.8 |
| 17.5° | 2450.3 | 2230.4 | 1841.2 | 1524.8 | 1300.3 | 1070.9 | 858.0 | 651.2 | 517.3 | 453.9 | 421.4 |
| 20° | 2633.2 | 2361.4 | 1839.1 | 1426.4 | 1129.0 | 846.9 | 581.2 | 428.4 | 347.2 | 311.8 | 296.6 |
| 22.5° | 2891.9 | 2528.6 | 1855.6 | 1329.2 | 950.6 | 605.1 | 401.2 | 314.7 | 273.1 | 254.1 | 245.5 |
| 25° | 3224.7 | 2763.4 | 1902.1 | 1241.0 | 783.0 | 451.4 | 312.6 | 263.6 | 234.4 | 219.5 | 213.4 |
| 27.5° | 3579.3 | 3033.6 | 1974.6 | 1164.4 | 646.7 | 360.0 | 267.7 | 225.7 | 204.7 | 194.4 | 188.6 |
| 30° | 3871.8 | 3346.6 | 2047.9 | 1079.2 | 547.8 | 313.9 | 245.1 | 205.9 | 181.6 | 175.1 | 169.7 |
| 32.5° | 4127.6 | 3583.5 | 2099.8 | 1002.1 | 483.2 | 278.9 | 221.6 | 184.1 | 167.6 | 154.9 | 149.1 |
| 35° | 4392.4 | 3780.8 | 2098.2 | 948.2 | 438.7 | 252.5 | 201.8 | 164.8 | 145.0 | 130.2 | 125.6 |
| 37.5° | 4679.1 | 4003.6 | 2062.3 | 902.0 | 419.3 | 231.5 | 190.7 | 154.5 | 134.7 | 119.9 | 114.1 |
| 40° | 5014.8 | 4237.6 | 2025.7 | 858.8 | 414.0 | 214.6 | 182.9 | 146.2 | 125.2 | 110.8 | 105.0 |
| 42.5° | 5341.8 | 4448.4 | 1993.6 | 826.7 | 390.9 | 214.2 | 175.9 | 140.0 | 117.8 | 103.8 | 97.2 |
| 45° | 5603.4 | 4644.9 | 1987.4 | 807.3 | 366.6 | 221.6 | 172.2 | 135.9 | 112.0 | 98.0 | 91.9 |
| 47.5° | 5820.9 | 4858.3 | 2026.9 | 793.7 | 343.5 | 202.2 | 181.2 | 133.0 | 106.7 | 93.1 | 86.1 |
| 50° | 6079.5 | 5120.2 | 2120.0 | 771.5 | 319.2 | 182.1 | 207.6 | 133.9 | 102.1 | 88.1 | 80.7 |
| 52.5° | 6440.4 | 5482.7 | 2256.8 | 734.0 | 285.9 | 163.5 | 204.3 | 134.7 | 97.2 | 82.8 | 75.4 |
| 55° | 6844.8 | 5935.4 | 2403.8 | 671.8 | 239.3 | 139.2 | 175.1 | 128.9 | 87.7 | 77.0 | 70.0 |
| 57.5° | 7269.9 | 6346.0 | 2491.1 | 597.7 | 190.3 | 120.3 | 140.0 | 117.4 | 77.4 | 69.2 | 64.7 |
| 60° | 7336.6 | 6502.1 | 2451.2 | 506.6 | 151.2 | 104.6 | 103.8 | 119.4 | 69.2 | 61.0 | 57.7 |
| 62.5° | 7170.6 | 6306.1 | 2258.0 | 425.5 | 126.5 | 91.9 | 85.3 | 104.2 | 62.6 | 54.4 | 51.1 |
| 65° | 6851.4 | 5776.0 | 1945.0 | 383.5 | 117.4 | 78.7 | 70.8 | 73.3 | 54.8 | 47.4 | 44.5 |
| 67.5° | 6407.4 | 5068.3 | 1596.9 | 359.6 | 116.2 | 67.6 | 60.5 | 55.6 | 47.4 | 41.2 | 38.7 |
| 70° | 5499.6 | 4222.3 | 1274.0 | 346.4 | 112.9 | 56.8 | 51.1 | 45.3 | 39.5 | 35.0 | 33.0 |
| 72.5° | 4047.7 | 2992.0 | 991.0 | 332.0 | 113.7 | 45.3 | 44.5 | 37.5 | 31.7 | 27.2 | 26.4 |
| 75° | 2338.7 | 1709.4 | 650.0 | 269.0 | 108.3 | 35.0 | 37.1 | 26.4 | 22.2 | 18.9 | 18.9 |
| 77.5° | 1246.4 | 1042.5 | 247.5 | 112.0 | 39.5 | 22.2 | 21.0 | 15.7 | 14.0 | 11.5 | 11.1 |
| 80° | 543.3 | 458.8 | 74.6 | 31.3 | 21.8 | 11.9 | 7.8 | 7.0 | 6.2 | 4.9 | 4.5 |
| 82.5° | 192.4 | 166.0 | 24.3 | 15.2 | 9.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 43.7 | 31.3 | 0.0 | 3.7 | 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-SA2C-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 |
| 2.5° | 2474.2 | 2465.2 | 2411.6 | 2413.7 | 2423.2 | 2436.8 | 2404.6 | 2419.5 | 2459.4 | 2497.7 | 2512.1 |
| 5° | 1913.2 | 1915.3 | 1882.8 | 1902.9 | 1921.1 | 1933.4 | 1881.5 | 1882.3 | 1914.1 | 1957.3 | 1980.0 |
| 7.5° | 1348.1 | 1344.8 | 1346.5 | 1394.7 | 1428.9 | 1404.1 | 1423.5 | 1356.4 | 1360.5 | 1391.4 | 1368.3 |
| 10° | 1002.1 | 956.8 | 931.3 | 967.5 | 1005.0 | 991.4 | 958.1 | 936.2 | 951.5 | 985.7 | 983.2 |
| 12.5° | 787.5 | 722.5 | 684.2 | 658.2 | 689.1 | 663.6 | 662.7 | 643.8 | 623.2 | 626.9 | 681.7 |
| 15° | 592.3 | 544.9 | 499.6 | 458.0 | 457.2 | 448.6 | 404.5 | 355.1 | 350.9 | 353.4 | 381.8 |
| 17.5° | 407.4 | 391.3 | 372.8 | 336.9 | 327.5 | 291.2 | 248.4 | 228.6 | 218.7 | 223.2 | 232.7 |
| 20° | 286.3 | 280.1 | 282.1 | 262.8 | 249.2 | 214.6 | 189.5 | 181.6 | 180.0 | 184.5 | 189.1 |
| 22.5° | 237.3 | 226.1 | 224.9 | 216.2 | 202.7 | 177.5 | 163.9 | 159.4 | 157.3 | 161.5 | 164.8 |
| 25° | 207.6 | 196.5 | 191.9 | 186.6 | 172.2 | 154.9 | 146.6 | 142.5 | 140.5 | 142.9 | 145.0 |
| 27.5° | 182.9 | 172.6 | 168.5 | 164.8 | 150.8 | 138.4 | 131.8 | 128.1 | 126.5 | 127.3 | 129.3 |
| 30° | 164.3 | 155.3 | 149.9 | 145.4 | 133.5 | 124.8 | 119.0 | 115.3 | 113.7 | 113.7 | 115.7 |
| 32.5° | 145.0 | 140.0 | 135.1 | 129.3 | 118.2 | 112.4 | 106.7 | 102.6 | 100.9 | 101.3 | 103.0 |
| 35° | 120.7 | 119.0 | 120.3 | 114.9 | 105.4 | 100.5 | 94.7 | 90.2 | 89.0 | 89.4 | 91.0 |
| 37.5° | 107.1 | 99.7 | 104.2 | 101.3 | 96.0 | 89.4 | 82.0 | 77.8 | 75.8 | 77.0 | 77.8 |
| 40° | 98.4 | 89.4 | 86.1 | 89.0 | 88.1 | 77.4 | 70.8 | 66.7 | 65.1 | 65.5 | 66.3 |
| 42.5° | 91.0 | 80.3 | 72.9 | 72.5 | 77.4 | 67.6 | 60.5 | 56.8 | 54.8 | 54.8 | 55.6 |
| 45° | 84.0 | 72.5 | 63.4 | 56.4 | 65.1 | 57.3 | 50.7 | 47.4 | 44.9 | 44.9 | 45.3 |
| 47.5° | 78.7 | 65.9 | 55.2 | 46.1 | 49.0 | 47.0 | 41.6 | 38.3 | 35.8 | 35.8 | 36.2 |
| 50° | 73.7 | 59.3 | 47.8 | 38.7 | 36.7 | 38.7 | 33.8 | 30.1 | 28.4 | 28.0 | 28.8 |
| 52.5° | 68.4 | 52.7 | 40.8 | 33.0 | 28.8 | 29.2 | 26.4 | 23.9 | 21.8 | 21.8 | 22.7 |
| 55° | 63.0 | 47.4 | 35.4 | 28.0 | 23.9 | 21.8 | 21.0 | 19.4 | 17.7 | 17.7 | 18.5 |
| 57.5° | 57.7 | 41.6 | 30.1 | 23.1 | 18.9 | 17.3 | 17.3 | 16.1 | 14.8 | 14.8 | 15.7 |
| 60° | 52.7 | 35.8 | 24.7 | 18.9 | 14.8 | 14.4 | 14.8 | 13.6 | 12.8 | 12.8 | 13.6 |
| 62.5° | 47.0 | 30.5 | 20.2 | 15.7 | 11.9 | 11.5 | 12.8 | 11.9 | 11.1 | 11.1 | 11.9 |
| 65° | 40.0 | 25.9 | 16.1 | 11.9 | 9.1 | 9.1 | 10.7 | 9.9 | 9.1 | 9.1 | 9.9 |
| 67.5° | 33.8 | 21.8 | 12.4 | 8.6 | 6.6 | 7.0 | 9.1 | 8.2 | 7.8 | 7.8 | 8.6 |
| 70° | 28.0 | 16.9 | 8.6 | 5.4 | 3.7 | 5.4 | 7.0 | 7.0 | 7.0 | 7.0 | 7.8 |
| 72.5° | 21.0 | 11.5 | 4.9 | 2.1 | 1.6 | 3.7 | 5.8 | 6.6 | 6.2 | 6.2 | 7.4 |
| 75° | 13.6 | 6.6 | 1.6 | 0.0 | 0.0 | 2.1 | 4.5 | 5.4 | 5.4 | 4.9 | 6.2 |
| 77.5° | 7.8 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | 2.5 | 2.1 | 1.6 | 2.9 |
| 80° | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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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| 0° | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 | 2917.0 |
| 2.5° | 2570.2 | 2618.8 | 2687.2 | 2759.7 | 2871.3 | 2959.9 | 3046.8 | 3121.3 | 3150.2 | 3162.1 |
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| 15° | 450.2 | 595.6 | 826.7 | 1103.0 | 1353.1 | 1571.4 | 1858.9 | 2246.5 | 2410.8 | 2456.1 |
| 17.5° | 258.3 | 330.7 | 505.4 | 813.5 | 1152.9 | 1455.2 | 1810.7 | 2273.2 | 2466.8 | 2508.8 |
| 20° | 197.3 | 220.4 | 291.2 | 523.9 | 918.9 | 1341.1 | 1810.7 | 2424.8 | 2663.3 | 2725.1 |
| 22.5° | 172.6 | 189.5 | 218.3 | 312.6 | 676.3 | 1218.8 | 1831.7 | 2643.9 | 2955.7 | 3024.1 |
| 25° | 153.2 | 168.5 | 193.2 | 235.2 | 461.3 | 1073.4 | 1881.5 | 2912.9 | 3300.1 | 3388.6 |
| 27.5° | 137.2 | 151.6 | 173.8 | 205.9 | 315.5 | 897.9 | 1948.7 | 3228.4 | 3679.8 | 3750.7 |
| 30° | 122.7 | 136.3 | 156.5 | 179.2 | 243.4 | 699.0 | 2005.9 | 3525.8 | 3978.1 | 4054.3 |
| 32.5° | 109.2 | 121.5 | 139.6 | 156.5 | 199.4 | 516.9 | 2012.1 | 3761.4 | 4225.6 | 4301.4 |
| 35° | 96.4 | 107.5 | 124.0 | 137.2 | 165.2 | 408.2 | 1916.1 | 3965.7 | 4473.2 | 4573.2 |
| 37.5° | 84.0 | 94.7 | 109.2 | 119.0 | 145.4 | 332.8 | 1769.5 | 4193.5 | 4790.7 | 4883.4 |
| 40° | 72.5 | 82.0 | 96.8 | 103.4 | 137.6 | 255.8 | 1610.1 | 4432.4 | 5102.1 | 5187.0 |
| 42.5° | 61.8 | 70.8 | 85.3 | 98.0 | 120.7 | 191.1 | 1437.9 | 4656.4 | 5382.2 | 5471.2 |
| 45° | 51.5 | 61.0 | 75.4 | 103.8 | 100.1 | 142.9 | 1253.8 | 4805.1 | 5603.4 | 5700.2 |
| 47.5° | 41.6 | 52.3 | 72.1 | 98.9 | 79.9 | 105.0 | 1108.0 | 4946.0 | 5771.0 | 5866.6 |
| 50° | 33.4 | 44.1 | 81.1 | 88.1 | 65.5 | 80.3 | 1047.0 | 5072.0 | 5881.0 | 5972.9 |
| 52.5° | 27.2 | 37.1 | 76.6 | 67.6 | 54.8 | 66.3 | 1080.0 | 5276.3 | 5982.7 | 6040.4 |
| 55° | 22.7 | 29.2 | 46.1 | 47.0 | 46.5 | 56.4 | 1120.8 | 5569.6 | 6245.9 | 6273.1 |
| 57.5° | 19.8 | 23.5 | 32.1 | 36.2 | 39.1 | 50.3 | 1121.6 | 5990.6 | 6653.3 | 6670.2 |
| 60° | 16.9 | 20.6 | 26.8 | 29.2 | 33.8 | 44.9 | 1080.8 | 6137.6 | 6813.5 | 6869.5 |
| 62.5° | 14.8 | 18.1 | 22.2 | 24.3 | 28.4 | 40.4 | 985.2 | 5924.7 | 6593.6 | 6688.7 |
| 65° | 13.2 | 16.5 | 18.5 | 20.6 | 25.1 | 36.2 | 827.9 | 5498.8 | 6228.6 | 6327.9 |
| 67.5° | 11.5 | 14.4 | 16.5 | 18.5 | 22.7 | 32.1 | 609.6 | 5004.1 | 5809.7 | 5892.1 |
| 70° | 10.3 | 12.8 | 14.8 | 16.5 | 19.8 | 27.2 | 369.9 | 4246.2 | 5230.6 | 5264.8 |
| 72.5° | 9.9 | 11.5 | 13.6 | 14.8 | 17.3 | 23.9 | 187.4 | 3120.5 | 4181.5 | 4237.1 |
| 75° | 8.6 | 10.3 | 12.4 | 13.2 | 15.2 | 20.6 | 76.2 | 2049.6 | 3030.3 | 3119.7 |
| 77.5° | 7.0 | 9.5 | 11.1 | 11.9 | 13.2 | 16.9 | 38.7 | 1309.8 | 2126.6 | 2184.3 |
| 80° | 2.5 | 7.0 | 9.5 | 9.9 | 11.1 | 12.4 | 25.5 | 717.1 | 1233.6 | 1258.3 |
| 82.5° | 0.0 | 4.5 | 7.4 | 7.0 | 7.8 | 9.5 | 16.5 | 341.0 | 814.3 | 823.4 |
| 85° | 0.0 | 2.1 | 5.8 | 4.5 | 3.3 | 6.6 | 5.8 | 74.6 | 427.1 | 444.8 |
| 87.5° | 0.0 | 0.0 | 0.4 | 2.1 | 1.6 | 2.5 | 0.8 | 0.4 | 38.7 | 49.0 |
| 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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