

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P318279

Luminaire Tested: **GAN-SA5B-722-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-722-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20605 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

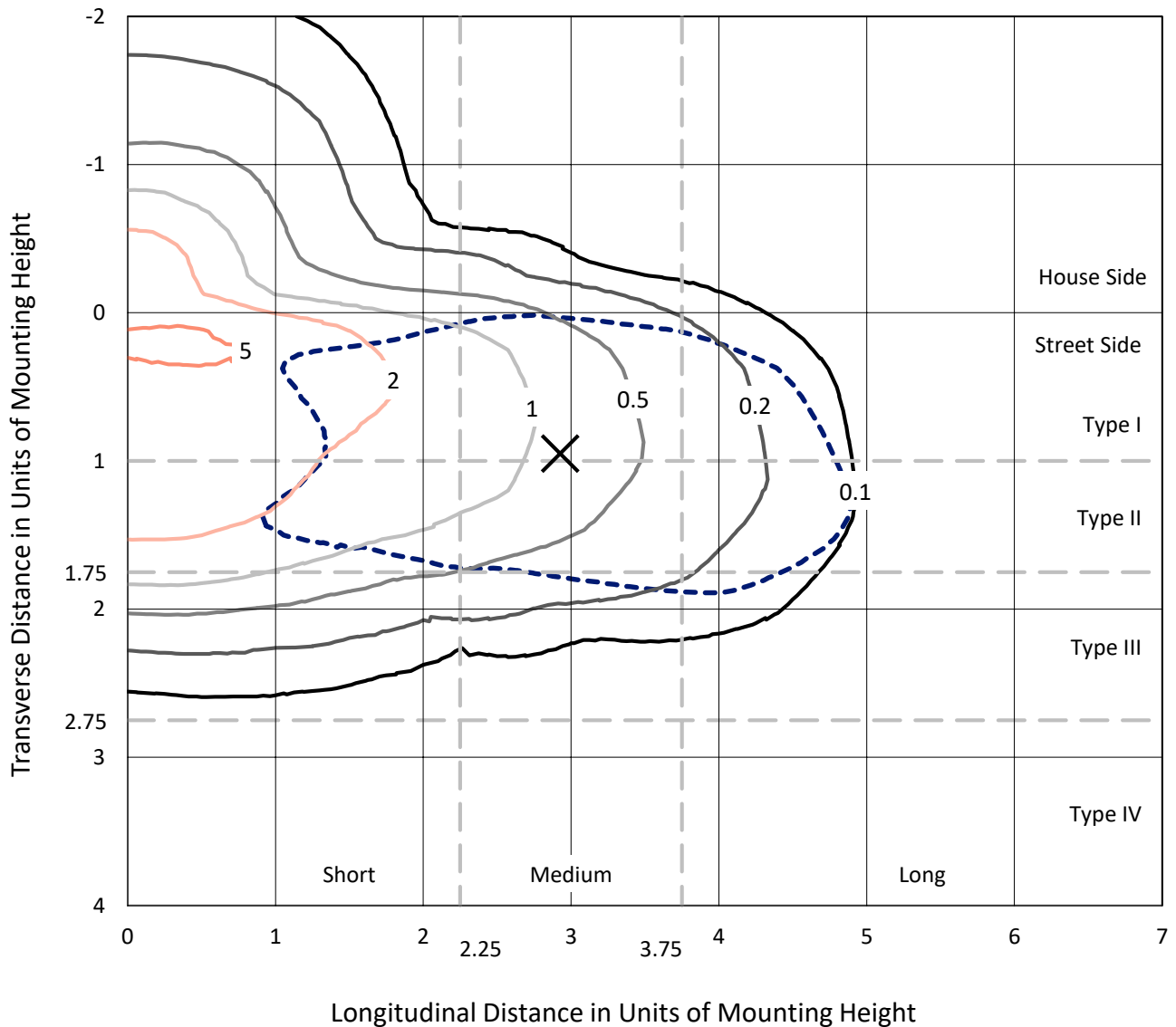
Input Watts (W): 210
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

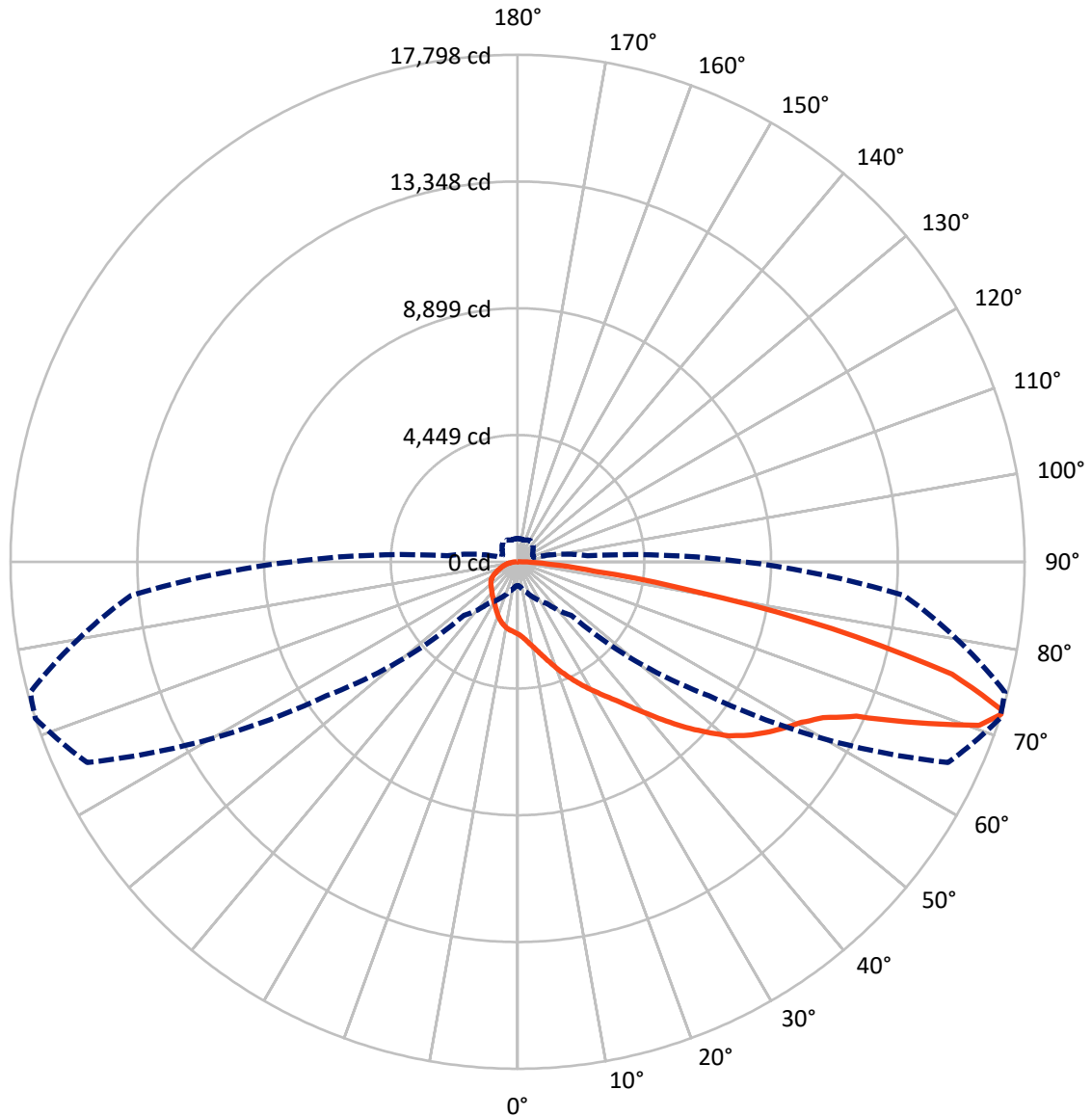
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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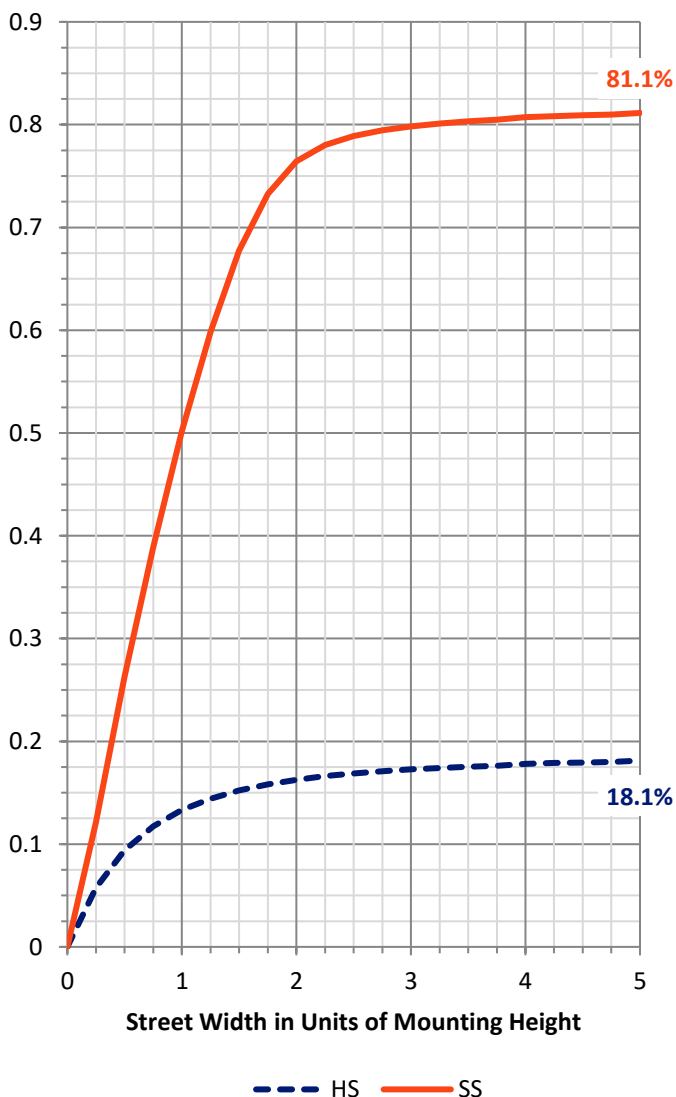
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3822.4 | 0.0 | 3822.4 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 16782.6 | 0.0 | 16782.6 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 20605.0 | 0.0 | 20605.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 254.0 | 1.2 |
| 10°-20° | 820.8 | 4.0 |
| 20°-30° | 1438.4 | 7.0 |
| 30°-40° | 2132.6 | 10.4 |
| 40°-50° | 3119.2 | 15.1 |
| 50°-60° | 4291.9 | 20.8 |
| 60°-70° | 4778.2 | 23.2 |
| 70°-80° | 3237.7 | 15.7 |
| 80°-90° | 532.1 | 2.6 |
| 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° | 20605.0 | 100.0 |
| 0°-180° | 20605.0 | 100.0 |

Coefficient of Utilization

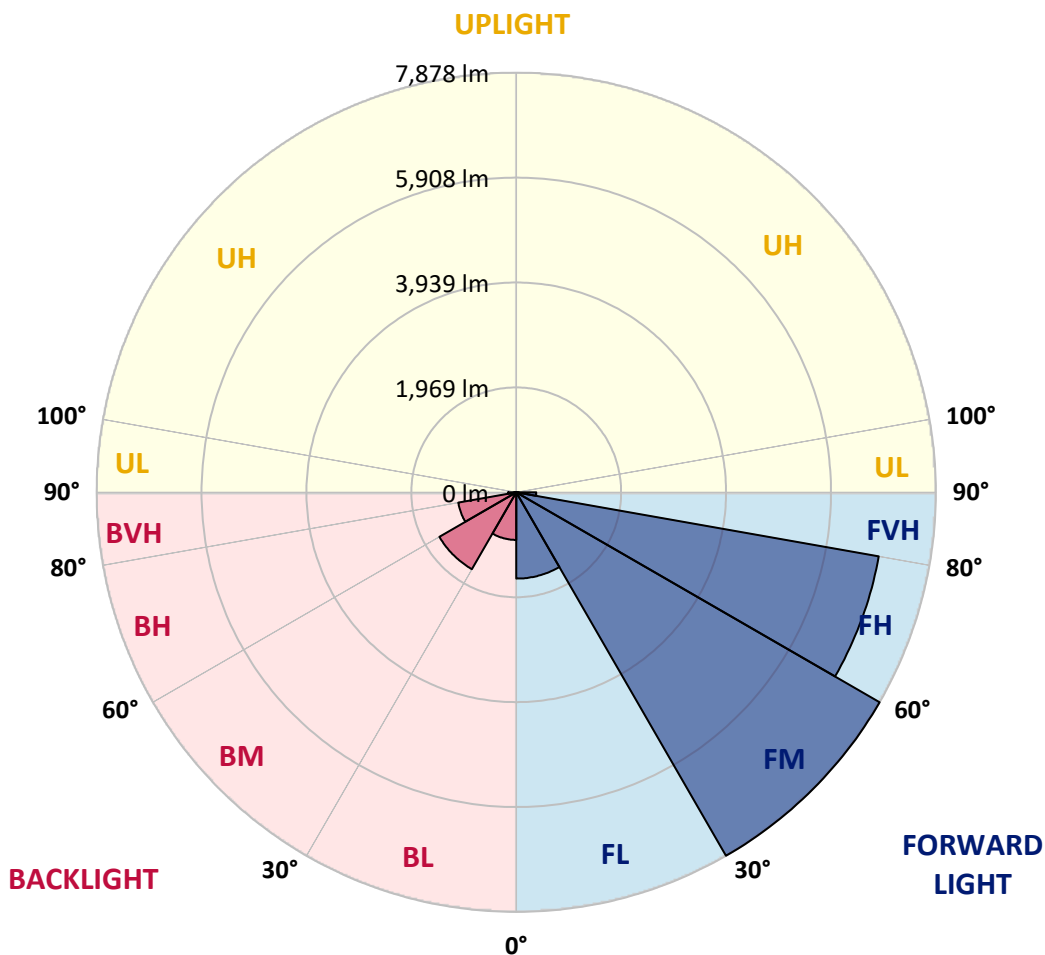


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1619.7 | 7.9 | | | |
| FM (30°-60°) | 7877.5 | 38.2 | | | |
| FH (60°-80°) | 6910.0 | 33.5 | | | G3/7500 |
| FVH (80°-90°) | 375.4 | 1.8 | | | G3/500 |
| BL (0°-30°) | 893.5 | 4.3 | B2/1000 | | |
| BM (30°-60°) | 1666.2 | 8.1 | B2/2500 | | |
| BH (60°-80°) | 1105.9 | 5.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 156.8 | 0.8 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 72° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 2535.0 | 2535.0 | 2535.0 | 2535.0 | 2535.0 | 2535.0 | 2535.0 | 2535.0 | 2535.0 | 2535.0 | 2535.0 |
| 2.5° | 2800.3 | 2796.0 | 2781.1 | 2781.1 | 2752.8 | 2728.6 | 2683.2 | 2652.7 | 2616.5 | 2603.8 | 2561.2 |
| 5° | 3071.3 | 3072.7 | 3054.3 | 3041.5 | 2999.7 | 2948.6 | 2871.2 | 2801.0 | 2730.8 | 2702.4 | 2615.1 |
| 7.5° | 3299.1 | 3296.2 | 3291.3 | 3280.6 | 3241.6 | 3189.1 | 3084.8 | 2980.5 | 2876.9 | 2834.4 | 2683.9 |
| 10° | 3445.2 | 3451.6 | 3455.9 | 3460.8 | 3444.5 | 3406.9 | 3308.3 | 3181.3 | 3045.8 | 2987.6 | 2766.2 |
| 12.5° | 3519.0 | 3530.3 | 3550.2 | 3584.3 | 3611.2 | 3607.0 | 3535.3 | 3400.5 | 3239.5 | 3166.4 | 2869.1 |
| 15° | 3562.3 | 3577.2 | 3608.4 | 3669.4 | 3745.3 | 3788.6 | 3769.4 | 3647.4 | 3467.9 | 3377.8 | 2994.7 |
| 17.5° | 3589.2 | 3601.3 | 3649.5 | 3731.1 | 3843.9 | 3958.9 | 4009.2 | 3907.1 | 3726.2 | 3623.3 | 3138.7 |
| 20° | 3607.7 | 3616.9 | 3677.2 | 3773.0 | 3919.1 | 4102.2 | 4242.7 | 4217.1 | 4010.7 | 3877.3 | 3289.1 |
| 22.5° | 3648.8 | 3656.6 | 3714.1 | 3810.6 | 3972.3 | 4208.6 | 4467.6 | 4505.9 | 4310.8 | 4159.6 | 3450.2 |
| 25° | 3763.8 | 3763.8 | 3812.0 | 3879.4 | 4031.2 | 4300.8 | 4657.7 | 4827.3 | 4617.3 | 4441.3 | 3599.2 |
| 27.5° | 3983.0 | 3980.9 | 3998.6 | 4022.0 | 4136.9 | 4394.5 | 4827.3 | 5111.1 | 4935.1 | 4742.8 | 3743.9 |
| 30° | 4242.7 | 4256.8 | 4259.0 | 4247.6 | 4301.5 | 4511.5 | 4984.1 | 5410.5 | 5255.1 | 5047.9 | 3892.2 |
| 32.5° | 4576.8 | 4586.0 | 4575.4 | 4537.8 | 4530.0 | 4677.6 | 5138.0 | 5724.0 | 5601.3 | 5366.5 | 4027.7 |
| 35° | 5001.1 | 4983.3 | 4950.0 | 4873.4 | 4800.3 | 4899.6 | 5314.0 | 6037.6 | 5990.1 | 5751.7 | 4214.3 |
| 37.5° | 5455.9 | 5456.6 | 5415.4 | 5241.6 | 5140.9 | 5183.4 | 5556.6 | 6393.1 | 6460.5 | 6210.0 | 4453.4 |
| 40° | 5820.5 | 5839.7 | 5865.2 | 5636.8 | 5506.2 | 5565.1 | 5865.2 | 6805.3 | 7016.7 | 6753.5 | 4764.8 |
| 42.5° | 6075.2 | 6097.2 | 6169.6 | 6026.3 | 5890.8 | 6000.0 | 6228.5 | 7245.2 | 7641.0 | 7380.7 | 5129.5 |
| 45° | 6344.8 | 6356.9 | 6408.0 | 6346.2 | 6259.7 | 6505.9 | 6637.8 | 7700.6 | 8301.6 | 8049.0 | 5537.4 |
| 47.5° | 6628.6 | 6641.4 | 6693.9 | 6652.7 | 6607.3 | 6978.4 | 7064.9 | 8129.9 | 8934.4 | 8783.3 | 5973.1 |
| 50° | 6979.1 | 6987.6 | 7037.3 | 6962.8 | 6977.0 | 7334.5 | 7446.6 | 8523.6 | 9597.8 | 9443.1 | 6410.1 |
| 52.5° | 7457.3 | 7459.4 | 7528.2 | 7460.8 | 7394.1 | 7595.6 | 7775.1 | 8894.7 | 10117.8 | 10044.7 | 6847.1 |
| 55° | 7831.9 | 7854.6 | 8080.2 | 8066.0 | 8027.7 | 7832.6 | 8049.7 | 9248.0 | 10581.8 | 10616.6 | 7311.1 |
| 57.5° | 7592.8 | 7681.5 | 8138.4 | 8460.5 | 8774.1 | 8422.2 | 8420.8 | 9646.0 | 11013.2 | 11177.8 | 7821.2 |
| 60° | 6649.9 | 6770.5 | 7443.8 | 8158.2 | 9139.5 | 9448.1 | 9191.2 | 10132.0 | 11448.8 | 11734.0 | 8460.5 |
| 62.5° | 4749.2 | 4947.9 | 5860.3 | 7001.1 | 8638.6 | 10127.7 | 10759.2 | 10903.2 | 12041.2 | 12378.2 | 9291.3 |
| 65° | 2400.9 | 2551.3 | 3316.1 | 4690.3 | 6901.8 | 9683.6 | 12463.3 | 12591.8 | 13070.6 | 13370.0 | 10570.5 |
| 67.5° | 1458.7 | 1515.4 | 1888.6 | 2608.7 | 4231.3 | 7543.1 | 13019.6 | 15406.2 | 15062.9 | 15221.8 | 12394.5 |
| 70° | 1074.9 | 1116.7 | 1349.4 | 1732.5 | 2433.5 | 4426.4 | 11312.6 | 17414.8 | 17189.1 | 17171.4 | 13742.5 |
| 72° | 837.2 | 867.7 | 1073.4 | 1399.8 | 1779.4 | 2655.6 | 8199.4 | 16673.4 | 17797.9 | 17708.5 | 13619.1 |
| 72.5° | 793.9 | 820.9 | 1008.2 | 1317.5 | 1681.5 | 2407.2 | 7372.2 | 16173.2 | 17753.9 | 17713.5 | 13459.4 |
| 75° | 625.0 | 644.2 | 746.4 | 1018.8 | 1316.1 | 1365.7 | 4039.7 | 12533.6 | 15749.6 | 16404.5 | 12105.8 |
| 77.5° | 517.2 | 520.0 | 574.0 | 741.4 | 1025.9 | 965.6 | 1984.4 | 8696.0 | 11277.8 | 11997.9 | 8575.4 |
| 80° | 421.4 | 425.0 | 450.5 | 520.0 | 776.2 | 714.4 | 942.2 | 5000.4 | 6314.3 | 6322.1 | 4078.1 |
| 82.5° | 335.6 | 336.3 | 364.7 | 380.3 | 557.6 | 510.8 | 539.9 | 2347.7 | 2759.1 | 2654.1 | 1465.8 |
| 85° | 236.3 | 231.3 | 356.2 | 312.2 | 364.7 | 327.8 | 298.0 | 929.4 | 1140.8 | 1091.2 | 459.0 |
| 87.5° | 78.8 | 81.6 | 158.2 | 202.2 | 212.8 | 185.9 | 132.7 | 356.2 | 430.7 | 427.1 | 145.4 |
| 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: GAN-SA5B-722-U-T2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2535.0 | 2535.0 | 2535.0 | 2535.0 | 2535.0 | 2535.0 | 2535.0 | 2535.0 | 2535.0 | 2535.0 | 2535.0 |
| 2.5° | 2547.7 | 2525.0 | 2491.7 | 2454.8 | 2425.7 | 2395.9 | 2373.9 | 2362.6 | 2349.8 | 2339.1 | 2351.9 |
| 5° | 2574.7 | 2532.1 | 2461.2 | 2391.6 | 2340.6 | 2295.2 | 2262.5 | 2245.5 | 2229.9 | 2219.2 | 2220.7 |
| 7.5° | 2618.7 | 2549.9 | 2430.7 | 2329.2 | 2258.3 | 2209.3 | 2176.0 | 2164.6 | 2154.7 | 2151.8 | 2155.4 |
| 10° | 2665.5 | 2564.0 | 2390.2 | 2255.4 | 2174.5 | 2134.1 | 2119.2 | 2127.0 | 2134.1 | 2140.5 | 2147.6 |
| 12.5° | 2718.7 | 2576.8 | 2331.3 | 2168.9 | 2100.0 | 2084.4 | 2099.3 | 2133.4 | 2158.2 | 2173.1 | 2182.3 |
| 15° | 2788.2 | 2588.2 | 2263.2 | 2082.3 | 2036.2 | 2053.9 | 2104.3 | 2163.2 | 2206.5 | 2234.1 | 2238.4 |
| 17.5° | 2852.1 | 2587.5 | 2176.0 | 1995.0 | 1984.4 | 2036.2 | 2112.1 | 2195.1 | 2253.3 | 2292.3 | 2300.1 |
| 20° | 2918.1 | 2568.3 | 2074.5 | 1909.9 | 1931.9 | 2017.0 | 2115.7 | 2215.7 | 2285.9 | 2331.3 | 2342.0 |
| 22.5° | 2979.8 | 2535.0 | 1963.1 | 1832.6 | 1887.9 | 1991.5 | 2102.2 | 2203.6 | 2273.9 | 2310.8 | 2322.1 |
| 25° | 3021.7 | 2476.8 | 1850.3 | 1767.3 | 1848.9 | 1960.3 | 2058.2 | 2139.8 | 2192.3 | 2210.7 | 2213.6 |
| 27.5° | 3042.9 | 2400.9 | 1743.9 | 1710.5 | 1808.5 | 1909.2 | 1976.6 | 2017.0 | 2031.9 | 2030.5 | 2027.7 |
| 30° | 3045.8 | 2300.8 | 1652.4 | 1664.4 | 1761.6 | 1834.0 | 1865.9 | 1858.1 | 1839.0 | 1806.3 | 1809.2 |
| 32.5° | 3036.6 | 2188.0 | 1575.7 | 1620.4 | 1702.0 | 1742.5 | 1743.9 | 1706.3 | 1655.2 | 1603.4 | 1589.2 |
| 35° | 3039.4 | 2077.3 | 1508.3 | 1570.8 | 1629.7 | 1647.4 | 1631.1 | 1575.7 | 1506.2 | 1439.5 | 1425.3 |
| 37.5° | 3070.6 | 1980.9 | 1450.2 | 1513.3 | 1549.5 | 1553.7 | 1530.3 | 1472.2 | 1421.1 | 1355.8 | 1350.1 |
| 40° | 3145.1 | 1912.0 | 1394.8 | 1448.7 | 1469.3 | 1471.5 | 1438.1 | 1397.0 | 1401.2 | 1366.4 | 1365.7 |
| 42.5° | 3279.2 | 1882.2 | 1345.9 | 1381.3 | 1394.1 | 1398.4 | 1372.8 | 1346.6 | 1383.5 | 1360.8 | 1353.0 |
| 45° | 3452.3 | 1889.3 | 1304.7 | 1315.4 | 1338.8 | 1358.6 | 1343.0 | 1311.1 | 1325.3 | 1226.7 | 1194.0 |
| 47.5° | 3652.4 | 1934.7 | 1272.1 | 1258.6 | 1299.0 | 1336.7 | 1312.5 | 1264.3 | 1213.9 | 1116.0 | 1097.6 |
| 50° | 3886.5 | 2005.0 | 1242.3 | 1202.6 | 1255.8 | 1306.9 | 1282.7 | 1213.9 | 1138.0 | 1090.5 | 1084.1 |
| 52.5° | 4130.6 | 2090.8 | 1212.5 | 1140.8 | 1201.1 | 1284.1 | 1272.1 | 1202.6 | 1108.9 | 1062.1 | 1053.6 |
| 55° | 4407.3 | 2177.4 | 1174.9 | 1069.2 | 1142.3 | 1273.5 | 1267.1 | 1161.4 | 1086.9 | 1060.7 | 1054.3 |
| 57.5° | 4751.4 | 2276.0 | 1125.2 | 994.7 | 1086.9 | 1235.2 | 1215.3 | 1136.6 | 1064.2 | 1044.3 | 1042.2 |
| 60° | 5199.7 | 2421.4 | 1053.6 | 915.2 | 1019.5 | 1176.3 | 1172.1 | 1100.4 | 1028.0 | 1013.8 | 1011.0 |
| 62.5° | 5872.3 | 2661.9 | 955.0 | 835.8 | 944.3 | 1076.3 | 1115.3 | 1051.4 | 989.7 | 989.0 | 990.4 |
| 65° | 6915.2 | 3023.8 | 847.8 | 766.2 | 868.4 | 991.8 | 1049.3 | 1001.1 | 950.7 | 964.9 | 967.0 |
| 67.5° | 8124.2 | 3323.9 | 742.8 | 698.1 | 791.1 | 911.7 | 989.7 | 950.7 | 898.9 | 935.8 | 936.5 |
| 70° | 8526.5 | 3055.7 | 650.6 | 630.7 | 710.9 | 834.3 | 925.2 | 895.4 | 842.9 | 879.7 | 876.2 |
| 72° | 7934.8 | 2466.8 | 591.0 | 579.6 | 650.6 | 770.5 | 867.7 | 843.6 | 791.8 | 816.6 | 807.4 |
| 72.5° | 7748.2 | 2351.9 | 576.1 | 566.9 | 634.3 | 754.2 | 852.8 | 830.8 | 779.0 | 800.3 | 791.8 |
| 75° | 6911.7 | 2042.6 | 495.2 | 497.3 | 553.4 | 674.7 | 769.1 | 762.0 | 708.8 | 710.9 | 708.1 |
| 77.5° | 5013.1 | 1497.7 | 417.2 | 431.4 | 471.1 | 593.1 | 684.6 | 680.4 | 622.2 | 611.6 | 609.4 |
| 80° | 2326.4 | 764.1 | 339.8 | 346.2 | 387.4 | 495.9 | 583.9 | 578.2 | 531.4 | 517.9 | 510.1 |
| 82.5° | 796.7 | 363.3 | 255.4 | 259.7 | 300.1 | 399.4 | 506.6 | 503.0 | 464.0 | 437.7 | 421.4 |
| 85° | 284.5 | 180.9 | 178.8 | 174.5 | 214.3 | 314.3 | 441.3 | 422.1 | 364.7 | 310.7 | 309.3 |
| 87.5° | 92.2 | 77.3 | 92.2 | 91.5 | 124.9 | 212.8 | 320.7 | 273.1 | 264.6 | 219.9 | 215.7 |
| 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)