

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: P324677

Luminaire Tested: **GAN-SA3B-722-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324677
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 (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-722-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9507 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

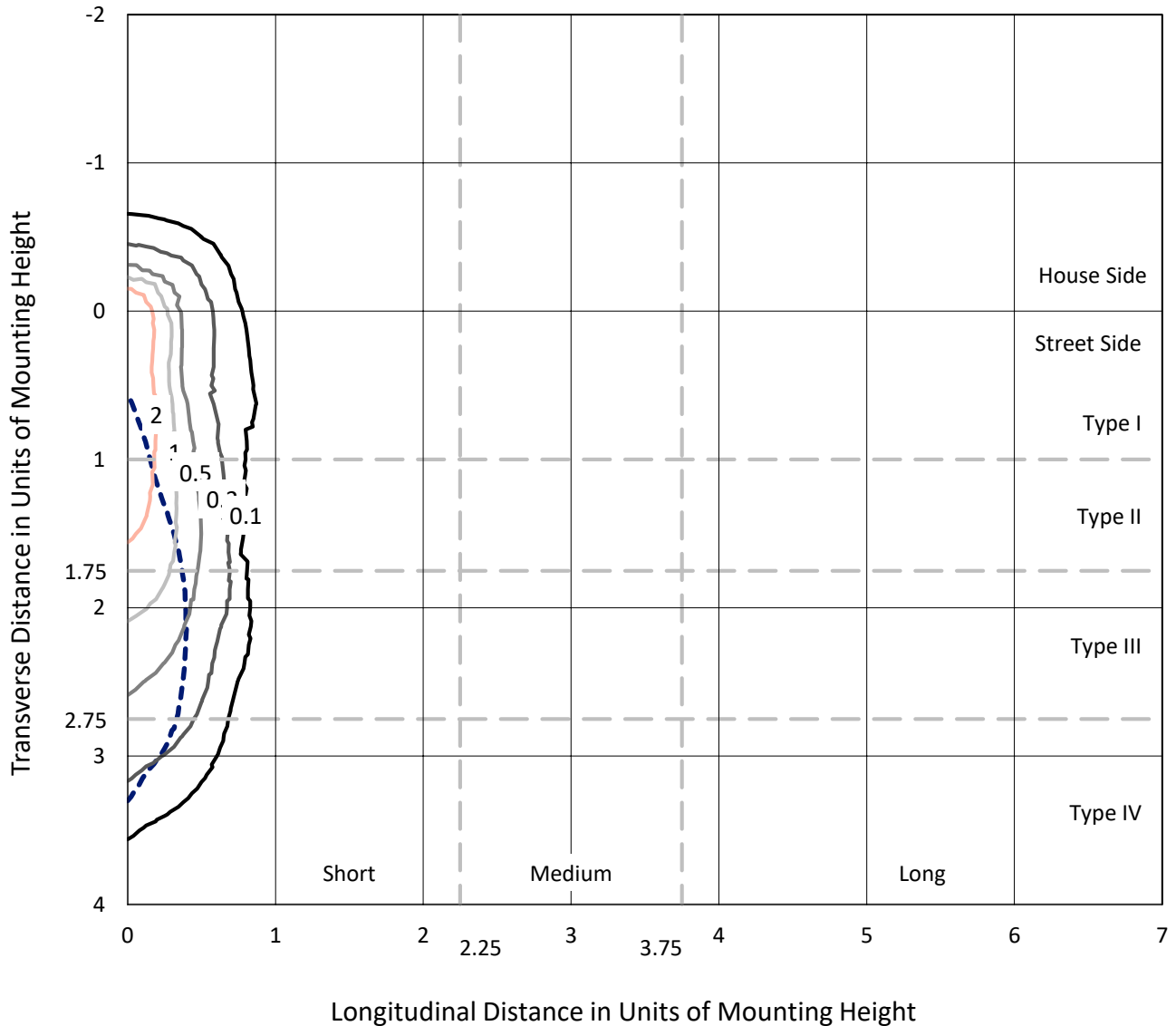
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

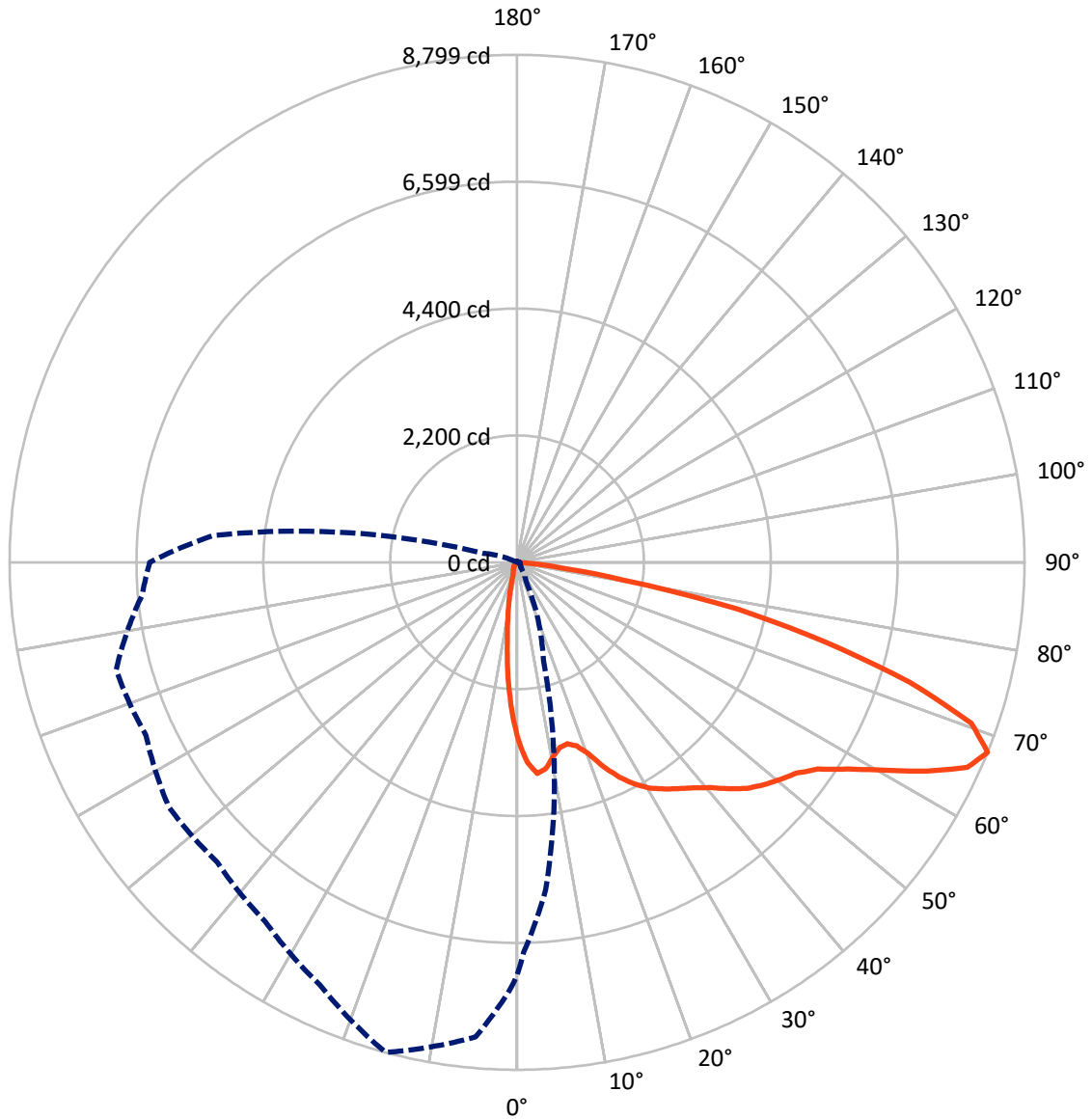
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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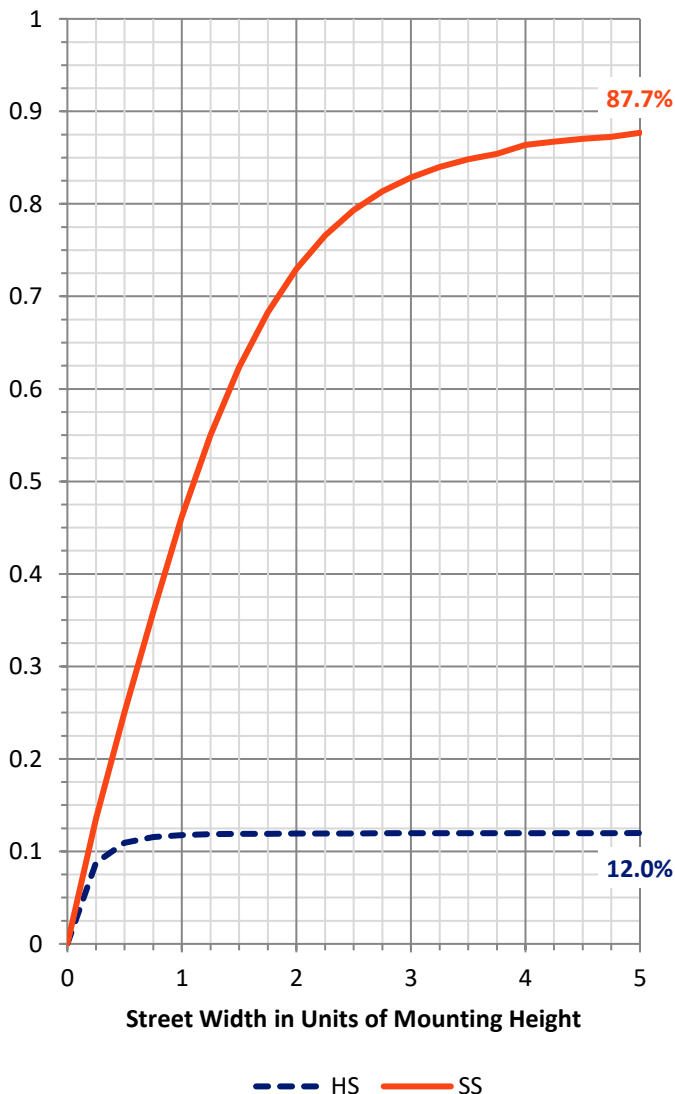
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1150.7 | 0.0 | 1150.7 |
| | % Fixture | 12.1 | 0.0 | 12.1 |
| Street Side | Lumens | 8356.3 | 0.0 | 8356.3 |
| | % Fixture | 87.9 | 0.0 | 87.9 |
| Total | Lumens | 9507.0 | 0.0 | 9507.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 237.7 | 2.5 |
| 10°-20° | 473.1 | 5.0 |
| 20°-30° | 671.8 | 7.1 |
| 30°-40° | 992.3 | 10.4 |
| 40°-50° | 1431.1 | 15.1 |
| 50°-60° | 2009.0 | 21.1 |
| 60°-70° | 2341.9 | 24.6 |
| 70°-80° | 1197.2 | 12.6 |
| 80°-90° | 152.9 | 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° | 9507.0 | 100.0 |
| 0°-180° | 9507.0 | 100.0 |

Coefficient of Utilization

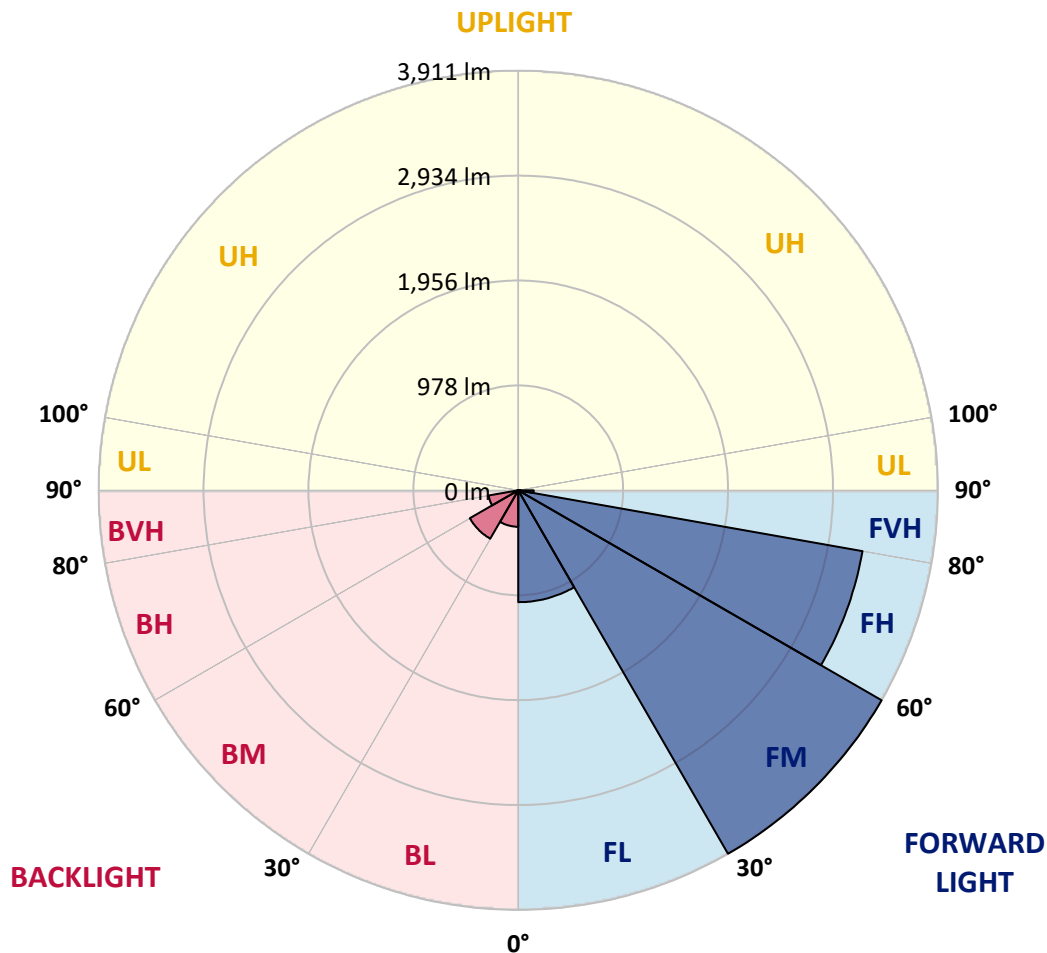


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1042.7 | 11.0 | | | |
| FM (30°-60°) | 3911.3 | 41.1 | | | |
| FH (60°-80°) | 3258.7 | 34.3 | | | G2/5000 |
| FVH (80°-90°) | 143.6 | 1.5 | | | G2/225 |
| BL (0°-30°) | 339.9 | 3.6 | B1/500 | | |
| BM (30°-60°) | 521.1 | 5.5 | B1/1000 | | |
| BH (60°-80°) | 280.5 | 3.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 9.3 | 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 IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 |
| 2.5° | 3391.0 | 3364.9 | 3336.0 | 3241.9 | 3154.5 | 3054.6 | 2973.0 | 2916.3 | 2845.1 | 2752.8 | 2729.4 |
| 5° | 3366.7 | 3338.7 | 3248.2 | 3038.8 | 2855.5 | 2677.1 | 2505.1 | 2404.2 | 2279.0 | 2152.0 | 2120.4 |
| 7.5° | 3122.1 | 3092.8 | 2962.2 | 2675.3 | 2428.5 | 2170.9 | 1947.5 | 1809.2 | 1667.8 | 1551.6 | 1489.9 |
| 10° | 2867.6 | 2835.7 | 2688.8 | 2340.7 | 2036.7 | 1803.8 | 1639.9 | 1507.9 | 1374.1 | 1249.8 | 1150.7 |
| 12.5° | 2692.4 | 2650.6 | 2491.1 | 2096.6 | 1831.7 | 1673.7 | 1520.5 | 1362.4 | 1181.4 | 1048.1 | 939.1 |
| 15° | 2619.0 | 2571.3 | 2402.8 | 2002.4 | 1759.2 | 1573.7 | 1374.1 | 1180.0 | 967.9 | 815.2 | 715.2 |
| 17.5° | 2675.8 | 2613.6 | 2433.0 | 1996.1 | 1668.2 | 1415.6 | 1163.4 | 935.5 | 705.3 | 550.8 | 479.7 |
| 20° | 2868.5 | 2787.0 | 2557.8 | 1994.3 | 1557.9 | 1227.8 | 908.0 | 650.4 | 464.8 | 373.8 | 336.4 |
| 22.5° | 3172.1 | 3064.5 | 2737.0 | 2008.7 | 1444.0 | 1030.5 | 655.8 | 441.8 | 349.1 | 301.8 | 279.7 |
| 25° | 3538.7 | 3414.0 | 2995.1 | 2059.6 | 1344.0 | 838.6 | 476.5 | 349.1 | 294.6 | 259.9 | 241.4 |
| 27.5° | 3887.3 | 3786.0 | 3321.2 | 2133.1 | 1266.5 | 683.7 | 386.9 | 295.9 | 251.8 | 228.8 | 213.9 |
| 30° | 4235.5 | 4108.0 | 3655.8 | 2220.4 | 1173.3 | 578.8 | 340.0 | 269.8 | 225.6 | 201.3 | 191.9 |
| 32.5° | 4488.6 | 4382.8 | 3918.0 | 2283.5 | 1073.7 | 510.3 | 304.0 | 246.8 | 210.8 | 186.0 | 172.0 |
| 35° | 4786.3 | 4666.5 | 4142.7 | 2297.4 | 1009.8 | 467.1 | 273.4 | 222.0 | 182.9 | 160.8 | 145.9 |
| 37.5° | 5107.9 | 4958.8 | 4402.1 | 2266.8 | 959.8 | 445.9 | 250.4 | 210.8 | 170.7 | 148.2 | 132.4 |
| 40° | 5463.7 | 5295.2 | 4651.2 | 2222.7 | 910.7 | 438.7 | 232.9 | 202.2 | 161.2 | 138.3 | 122.1 |
| 42.5° | 5838.4 | 5639.8 | 4866.9 | 2176.3 | 879.6 | 413.9 | 231.1 | 193.7 | 154.0 | 129.3 | 113.0 |
| 45° | 6153.2 | 5951.9 | 5088.5 | 2161.0 | 857.5 | 386.9 | 238.7 | 187.8 | 149.1 | 122.1 | 106.3 |
| 47.5° | 6404.1 | 6213.6 | 5315.5 | 2195.2 | 844.9 | 362.1 | 217.5 | 195.5 | 146.4 | 115.8 | 100.4 |
| 50° | 6703.6 | 6487.9 | 5635.3 | 2297.4 | 826.5 | 337.3 | 196.8 | 223.8 | 146.4 | 111.7 | 95.5 |
| 52.5° | 7079.2 | 6865.8 | 5992.0 | 2456.0 | 789.5 | 303.1 | 177.0 | 224.3 | 147.7 | 106.3 | 89.2 |
| 55° | 7551.7 | 7396.8 | 6501.4 | 2629.8 | 730.5 | 252.7 | 153.1 | 192.8 | 142.3 | 96.4 | 83.3 |
| 57.5° | 8004.8 | 7878.2 | 6965.7 | 2748.7 | 651.7 | 197.3 | 133.3 | 155.4 | 130.2 | 84.7 | 74.3 |
| 59° | 8128.7 | 7990.4 | 7136.0 | 2754.1 | 592.7 | 172.0 | 123.4 | 128.4 | 127.5 | 79.3 | 68.9 |
| 60° | 8128.7 | 7981.8 | 7185.1 | 2725.3 | 549.9 | 158.1 | 117.1 | 114.4 | 132.9 | 75.7 | 65.8 |
| 62.5° | 7981.4 | 7775.1 | 7025.6 | 2530.3 | 448.6 | 134.7 | 102.2 | 94.6 | 119.4 | 68.0 | 58.1 |
| 65° | 7675.1 | 7374.7 | 6482.5 | 2177.6 | 399.9 | 123.4 | 88.3 | 77.5 | 82.9 | 59.9 | 50.9 |
| 67.5° | 7164.4 | 6757.2 | 5699.2 | 1759.2 | 380.6 | 120.3 | 76.1 | 65.8 | 62.6 | 51.3 | 44.6 |
| 70° | 6264.9 | 5813.2 | 4748.5 | 1383.2 | 363.9 | 118.9 | 64.0 | 55.4 | 50.4 | 43.2 | 37.8 |
| 72.5° | 4559.8 | 4088.6 | 3371.2 | 1081.4 | 354.0 | 121.6 | 51.3 | 46.4 | 41.4 | 33.8 | 29.3 |
| 75° | 2608.2 | 2299.7 | 1894.8 | 714.3 | 301.8 | 116.2 | 39.6 | 38.7 | 29.7 | 24.3 | 20.3 |
| 77.5° | 1347.6 | 1306.6 | 1135.4 | 274.3 | 144.6 | 50.9 | 26.1 | 22.5 | 17.6 | 14.9 | 12.2 |
| 80° | 581.5 | 575.1 | 497.7 | 79.3 | 38.3 | 28.4 | 14.9 | 9.5 | 8.1 | 6.3 | 5.0 |
| 82.5° | 200.9 | 200.9 | 177.0 | 26.6 | 17.1 | 14.0 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 40.5 | 45.5 | 32.0 | 0.0 | 5.9 | 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° | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 |
| 2.5° | 2701.0 | 2646.5 | 2642.9 | 2608.7 | 2565.9 | 2546.5 | 2535.3 | 2555.1 | 2579.4 | 2582.1 | 2618.6 |
| 5° | 2096.6 | 2039.4 | 2063.2 | 2002.4 | 2014.6 | 2002.4 | 1982.6 | 1986.2 | 1997.0 | 1963.3 | 2005.1 |
| 7.5° | 1472.3 | 1429.1 | 1456.6 | 1440.4 | 1462.0 | 1470.5 | 1458.4 | 1440.4 | 1387.2 | 1380.9 | 1417.4 |
| 10° | 1109.8 | 1060.7 | 1031.4 | 1000.8 | 1007.5 | 1021.5 | 1017.0 | 1003.9 | 970.1 | 971.9 | 1007.1 |
| 12.5° | 891.8 | 836.8 | 778.7 | 703.5 | 685.0 | 695.4 | 685.0 | 677.4 | 645.0 | 647.7 | 678.7 |
| 15° | 676.5 | 631.4 | 570.6 | 510.3 | 477.4 | 480.6 | 451.7 | 431.5 | 411.2 | 386.9 | 405.8 |
| 17.5° | 456.7 | 429.2 | 411.2 | 393.2 | 354.0 | 345.0 | 308.5 | 269.3 | 254.0 | 242.8 | 250.9 |
| 20° | 323.4 | 308.5 | 301.3 | 300.4 | 277.9 | 266.6 | 231.1 | 206.7 | 199.1 | 196.8 | 201.8 |
| 22.5° | 270.2 | 259.4 | 249.1 | 243.2 | 232.0 | 218.9 | 191.9 | 179.7 | 174.3 | 171.6 | 175.2 |
| 25° | 235.1 | 227.0 | 216.2 | 206.3 | 201.8 | 187.8 | 168.4 | 159.4 | 155.8 | 153.1 | 154.9 |
| 27.5° | 209.0 | 201.8 | 189.2 | 182.9 | 179.3 | 167.1 | 150.4 | 143.2 | 140.1 | 139.2 | 138.7 |
| 30° | 188.3 | 181.5 | 169.8 | 162.6 | 156.3 | 145.5 | 135.6 | 128.4 | 125.2 | 124.3 | 123.4 |
| 32.5° | 167.5 | 162.1 | 154.5 | 147.3 | 140.5 | 130.6 | 122.1 | 116.2 | 111.2 | 110.3 | 109.9 |
| 35° | 141.4 | 136.0 | 132.0 | 131.5 | 125.2 | 115.8 | 109.4 | 101.8 | 97.7 | 96.4 | 96.8 |
| 37.5° | 125.7 | 118.5 | 109.4 | 112.6 | 110.8 | 104.0 | 95.5 | 87.8 | 83.8 | 82.9 | 82.9 |
| 40° | 115.8 | 108.1 | 97.7 | 92.3 | 97.7 | 96.4 | 82.9 | 75.2 | 71.2 | 70.7 | 69.8 |
| 42.5° | 106.3 | 98.6 | 86.9 | 77.9 | 80.6 | 84.7 | 71.6 | 64.4 | 60.4 | 59.5 | 58.1 |
| 45° | 99.5 | 91.4 | 78.4 | 68.0 | 62.6 | 71.2 | 61.3 | 52.2 | 50.0 | 48.2 | 47.3 |
| 47.5° | 93.2 | 85.6 | 70.7 | 59.0 | 50.0 | 51.3 | 49.1 | 42.8 | 40.1 | 38.3 | 37.8 |
| 50° | 87.8 | 79.7 | 64.0 | 50.4 | 41.4 | 37.8 | 39.6 | 33.8 | 31.5 | 29.7 | 28.8 |
| 52.5° | 81.5 | 73.9 | 56.7 | 43.7 | 34.7 | 29.7 | 30.2 | 26.6 | 24.3 | 23.0 | 22.5 |
| 55° | 76.6 | 68.9 | 50.9 | 38.3 | 30.6 | 24.3 | 21.6 | 20.7 | 19.4 | 18.5 | 18.0 |
| 57.5° | 69.8 | 62.6 | 45.0 | 32.4 | 26.1 | 19.8 | 16.7 | 16.7 | 16.2 | 15.3 | 14.9 |
| 59° | 65.8 | 59.5 | 41.4 | 29.3 | 23.9 | 17.1 | 14.9 | 15.3 | 14.9 | 14.0 | 13.5 |
| 60° | 62.6 | 56.7 | 38.7 | 27.0 | 22.5 | 15.8 | 13.5 | 14.4 | 14.0 | 13.1 | 12.6 |
| 62.5° | 55.4 | 51.3 | 33.3 | 22.5 | 19.8 | 12.6 | 11.3 | 12.2 | 12.2 | 11.7 | 11.3 |
| 65° | 48.6 | 44.1 | 28.4 | 18.9 | 18.5 | 10.8 | 9.0 | 10.8 | 11.3 | 10.4 | 9.5 |
| 67.5° | 42.3 | 37.8 | 24.8 | 15.3 | 17.1 | 8.6 | 6.8 | 9.0 | 12.2 | 9.5 | 8.6 |
| 70° | 36.0 | 31.5 | 19.4 | 12.2 | 18.0 | 5.9 | 5.4 | 8.1 | 14.4 | 10.4 | 8.1 |
| 72.5° | 27.9 | 24.3 | 13.5 | 9.0 | 19.4 | 4.1 | 4.1 | 6.8 | 16.2 | 11.3 | 7.7 |
| 75° | 19.4 | 15.8 | 8.1 | 5.4 | 15.8 | 2.7 | 2.7 | 6.3 | 15.3 | 10.4 | 7.2 |
| 77.5° | 11.3 | 8.6 | 2.7 | 0.5 | 8.1 | 0.0 | 0.5 | 4.5 | 10.8 | 6.3 | 3.2 |
| 80° | 4.1 | 1.8 | 0.0 | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.9 | 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: GAN-SA3B-722-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 |
| 2.5° | 2628.0 | 2688.8 | 2743.3 | 2825.8 | 2923.5 | 3036.1 | 3132.9 | 3237.0 | 3334.7 | 3375.2 | 3403.2 |
| 5° | 2013.7 | 2088.9 | 2176.7 | 2297.9 | 2459.1 | 2657.8 | 2843.8 | 3054.1 | 3280.2 | 3393.2 | 3499.5 |
| 7.5° | 1423.7 | 1500.3 | 1609.2 | 1738.1 | 1933.1 | 2169.5 | 2412.7 | 2703.2 | 3009.5 | 3188.3 | 3364.4 |
| 10° | 1023.7 | 1117.9 | 1219.7 | 1395.8 | 1593.9 | 1818.2 | 2068.6 | 2392.9 | 2734.3 | 2932.5 | 3144.6 |
| 12.5° | 696.8 | 803.9 | 958.0 | 1155.3 | 1388.1 | 1607.9 | 1825.4 | 2134.9 | 2531.2 | 2727.6 | 2955.0 |
| 15° | 418.0 | 477.4 | 640.5 | 868.8 | 1154.4 | 1428.2 | 1666.4 | 1976.8 | 2399.2 | 2639.7 | 2876.2 |
| 17.5° | 257.6 | 285.1 | 373.8 | 561.2 | 861.1 | 1207.5 | 1534.0 | 1923.2 | 2418.1 | 2710.9 | 2964.0 |
| 20° | 205.4 | 216.2 | 244.6 | 331.5 | 570.6 | 964.3 | 1385.0 | 1912.4 | 2572.6 | 2932.9 | 3204.5 |
| 22.5° | 178.4 | 188.7 | 207.6 | 241.0 | 359.0 | 722.0 | 1243.5 | 1922.3 | 2794.2 | 3265.8 | 3582.9 |
| 25° | 157.2 | 166.2 | 184.2 | 211.7 | 263.0 | 508.5 | 1092.2 | 1966.4 | 3082.9 | 3678.8 | 4015.7 |
| 27.5° | 140.5 | 148.2 | 164.8 | 190.1 | 225.6 | 354.9 | 920.6 | 2020.0 | 3425.2 | 4101.3 | 4433.6 |
| 30° | 125.2 | 132.0 | 146.8 | 170.2 | 195.9 | 272.9 | 732.3 | 2056.5 | 3768.0 | 4433.6 | 4732.3 |
| 32.5° | 112.1 | 117.1 | 130.6 | 150.4 | 170.2 | 217.5 | 556.7 | 2050.6 | 4022.4 | 4710.2 | 4947.1 |
| 35° | 98.6 | 103.6 | 115.3 | 132.4 | 148.2 | 179.7 | 437.8 | 1941.2 | 4244.0 | 4997.1 | 5193.0 |
| 37.5° | 83.8 | 90.1 | 101.3 | 116.7 | 127.5 | 158.1 | 354.0 | 1809.2 | 4468.8 | 5325.0 | 5467.3 |
| 40° | 71.2 | 77.5 | 87.4 | 104.0 | 110.8 | 150.0 | 272.0 | 1648.4 | 4721.4 | 5691.6 | 5768.2 |
| 42.5° | 59.0 | 64.9 | 75.2 | 89.6 | 104.5 | 129.3 | 201.3 | 1464.7 | 4964.2 | 6005.1 | 6042.4 |
| 45° | 47.7 | 53.6 | 64.4 | 78.8 | 111.7 | 107.2 | 155.8 | 1267.9 | 5160.1 | 6265.8 | 6278.0 |
| 47.5° | 37.8 | 43.2 | 54.5 | 74.3 | 104.0 | 85.6 | 111.2 | 1113.4 | 5324.5 | 6469.4 | 6437.4 |
| 50° | 29.3 | 33.8 | 45.5 | 85.1 | 91.0 | 70.7 | 84.2 | 1062.0 | 5471.8 | 6595.5 | 6512.7 |
| 52.5° | 23.0 | 27.0 | 37.4 | 79.7 | 70.7 | 58.6 | 70.7 | 1110.2 | 5673.6 | 6700.0 | 6555.0 |
| 55° | 18.5 | 22.5 | 29.3 | 45.5 | 48.2 | 49.5 | 60.4 | 1155.3 | 6021.7 | 6945.0 | 6805.0 |
| 57.5° | 15.3 | 19.4 | 23.9 | 32.0 | 36.5 | 41.9 | 53.6 | 1160.2 | 6432.0 | 7352.2 | 7219.8 |
| 59° | 14.0 | 17.6 | 21.6 | 28.4 | 32.0 | 38.3 | 50.4 | 1133.2 | 6576.6 | 7500.4 | 7434.2 |
| 60° | 13.1 | 16.7 | 20.3 | 26.1 | 29.7 | 36.0 | 48.6 | 1107.5 | 6582.9 | 7495.0 | 7525.6 |
| 62.5° | 11.3 | 14.9 | 18.0 | 22.1 | 25.2 | 30.6 | 43.7 | 1012.5 | 6316.3 | 7249.5 | 7470.6 |
| 65° | 9.9 | 13.1 | 16.2 | 18.9 | 21.6 | 27.5 | 39.6 | 839.1 | 5860.9 | 6853.6 | 7094.6 |
| 67.5° | 9.0 | 11.3 | 14.9 | 16.7 | 19.4 | 24.3 | 35.1 | 598.1 | 5292.1 | 6369.4 | 6525.7 |
| 70° | 8.1 | 10.8 | 13.5 | 15.3 | 17.6 | 21.2 | 30.2 | 343.6 | 4468.8 | 5660.5 | 5771.8 |
| 72.5° | 7.7 | 10.4 | 12.2 | 14.4 | 15.8 | 18.9 | 27.5 | 161.7 | 3272.1 | 4534.5 | 4825.0 |
| 75° | 6.8 | 9.5 | 11.3 | 13.5 | 14.9 | 17.1 | 23.4 | 77.5 | 2176.3 | 3281.5 | 3611.7 |
| 77.5° | 4.1 | 7.7 | 10.4 | 12.2 | 13.1 | 14.9 | 19.4 | 44.6 | 1389.0 | 2271.3 | 2675.3 |
| 80° | 0.0 | 2.7 | 7.7 | 10.4 | 11.3 | 12.6 | 14.9 | 35.1 | 743.1 | 1297.6 | 1557.5 |
| 82.5° | 0.0 | 0.0 | 5.4 | 8.1 | 7.7 | 8.6 | 11.3 | 22.1 | 335.1 | 848.1 | 955.7 |
| 85° | 0.0 | 0.0 | 1.8 | 6.3 | 5.4 | 4.1 | 7.7 | 7.7 | 73.4 | 429.2 | 535.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.5 | 2.7 | 1.8 | 3.2 | 0.9 | 0.5 | 32.0 | 129.7 |
| 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° | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 | 3096.9 |
| 2.5° | 3500.9 | 3534.2 | 3590.5 | 3617.1 | 3604.0 | 3548.6 | 3482.4 | 3414.9 | 3375.2 | 3391.0 |
| 5° | 3716.2 | 3887.8 | 3986.9 | 4019.7 | 3964.8 | 3840.5 | 3677.9 | 3463.5 | 3387.4 | 3366.7 |
| 7.5° | 3716.2 | 4039.1 | 4243.6 | 4279.6 | 4157.1 | 3913.4 | 3608.5 | 3273.9 | 3162.6 | 3122.1 |
| 10° | 3585.6 | 4025.1 | 4310.2 | 4367.4 | 4196.3 | 3831.9 | 3423.4 | 3041.5 | 2909.5 | 2867.6 |
| 12.5° | 3438.3 | 3911.6 | 4212.1 | 4290.9 | 4150.4 | 3750.9 | 3295.1 | 2884.3 | 2728.9 | 2692.4 |
| 15° | 3347.8 | 3772.0 | 4020.6 | 4077.8 | 4018.4 | 3703.6 | 3264.4 | 2837.0 | 2654.2 | 2619.0 |
| 17.5° | 3380.2 | 3663.9 | 3753.6 | 3786.9 | 3827.0 | 3686.9 | 3347.8 | 2940.6 | 2709.1 | 2675.8 |
| 20° | 3502.2 | 3550.0 | 3503.6 | 3545.5 | 3653.6 | 3703.1 | 3546.4 | 3191.0 | 2913.1 | 2868.5 |
| 22.5° | 3709.4 | 3491.0 | 3360.8 | 3377.5 | 3509.0 | 3756.7 | 3849.9 | 3548.6 | 3228.0 | 3172.1 |
| 25° | 3950.8 | 3538.7 | 3281.5 | 3266.7 | 3401.8 | 3827.4 | 4127.4 | 3937.8 | 3600.4 | 3538.7 |
| 27.5° | 4254.4 | 3645.9 | 3265.3 | 3250.5 | 3364.4 | 3893.6 | 4358.0 | 4322.4 | 3992.7 | 3887.3 |
| 30° | 4488.6 | 3751.3 | 3313.5 | 3279.3 | 3401.8 | 3939.6 | 4543.1 | 4648.9 | 4305.3 | 4235.5 |
| 32.5° | 4656.6 | 3875.6 | 3391.9 | 3342.4 | 3507.2 | 4018.8 | 4685.9 | 4948.0 | 4594.4 | 4488.6 |
| 35° | 4784.5 | 4010.7 | 3518.5 | 3436.9 | 3652.2 | 4139.1 | 4819.6 | 5266.4 | 4902.1 | 4786.3 |
| 37.5° | 4904.3 | 4200.3 | 3716.2 | 3618.9 | 3879.7 | 4332.8 | 4961.1 | 5627.6 | 5246.2 | 5107.9 |
| 40° | 5071.4 | 4415.2 | 4021.1 | 3934.6 | 4262.0 | 4596.7 | 5137.6 | 6004.2 | 5637.5 | 5463.7 |
| 42.5° | 5238.5 | 4645.8 | 4333.2 | 4356.6 | 4739.0 | 4917.4 | 5365.5 | 6402.3 | 6024.0 | 5838.4 |
| 45° | 5391.2 | 4883.6 | 4777.7 | 4885.8 | 5181.7 | 5269.1 | 5592.1 | 6632.5 | 6332.5 | 6153.2 |
| 47.5° | 5527.2 | 5180.8 | 5219.6 | 5507.4 | 5685.3 | 5587.5 | 5761.4 | 6831.1 | 6562.2 | 6404.1 |
| 50° | 5685.3 | 5565.5 | 5801.9 | 6209.1 | 6264.9 | 5875.8 | 5915.4 | 7066.2 | 6830.6 | 6703.6 |
| 52.5° | 5858.2 | 5970.8 | 6446.9 | 6805.9 | 6787.8 | 6188.8 | 6070.4 | 7329.7 | 7198.6 | 7079.2 |
| 55° | 6054.6 | 6298.3 | 7014.8 | 7364.3 | 7349.0 | 6538.3 | 6327.1 | 7655.3 | 7659.8 | 7551.7 |
| 57.5° | 6346.0 | 6580.2 | 7400.4 | 7816.1 | 7841.8 | 6941.9 | 6762.2 | 8020.1 | 8076.9 | 8004.8 |
| 59° | 6555.0 | 6763.1 | 7553.1 | 8004.8 | 8109.3 | 7254.0 | 7080.1 | 8231.8 | 8194.4 | 8128.7 |
| 60° | 6709.9 | 6879.3 | 7628.7 | 8103.4 | 8264.7 | 7465.7 | 7314.8 | 8356.1 | 8208.4 | 8128.7 |
| 62.5° | 7093.2 | 7132.4 | 7765.2 | 8215.1 | 8443.5 | 7935.9 | 7975.1 | 8567.8 | 8111.5 | 7981.4 |
| 65° | 7272.0 | 7292.3 | 7763.4 | 8015.2 | 8270.5 | 8302.1 | 8574.1 | 8574.1 | 7875.1 | 7675.1 |
| 67.5° | 7197.2 | 7099.5 | 7378.3 | 7352.2 | 7607.1 | 8084.5 | 8799.3 | 8259.7 | 7422.9 | 7164.4 |
| 70° | 6589.2 | 6213.1 | 6089.3 | 6100.5 | 6295.6 | 7032.0 | 8353.4 | 7334.6 | 6567.1 | 6264.9 |
| 72.5° | 5482.6 | 4580.5 | 4274.7 | 4623.7 | 4674.6 | 5404.2 | 7118.9 | 5523.6 | 4843.1 | 4559.8 |
| 75° | 4409.8 | 3228.9 | 2731.6 | 3100.0 | 3186.5 | 3954.9 | 5506.9 | 3440.1 | 2828.9 | 2608.2 |
| 77.5° | 3168.0 | 2317.7 | 1960.1 | 1934.4 | 2046.1 | 2508.2 | 3907.6 | 1731.3 | 1444.0 | 1347.6 |
| 80° | 1799.8 | 1525.5 | 1642.6 | 1549.8 | 1606.1 | 1568.3 | 1856.5 | 759.4 | 622.0 | 581.5 |
| 82.5° | 1086.3 | 901.7 | 976.4 | 813.0 | 1028.7 | 895.8 | 715.2 | 243.2 | 211.2 | 200.9 |
| 85° | 706.7 | 492.7 | 256.7 | 172.0 | 354.5 | 572.4 | 159.9 | 66.2 | 50.9 | 40.5 |
| 87.5° | 243.7 | 125.7 | 12.6 | 5.4 | 37.8 | 106.7 | 5.9 | 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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