

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: P453228

Luminaire Tested: **GLAN-SA4B-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4B-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18668 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

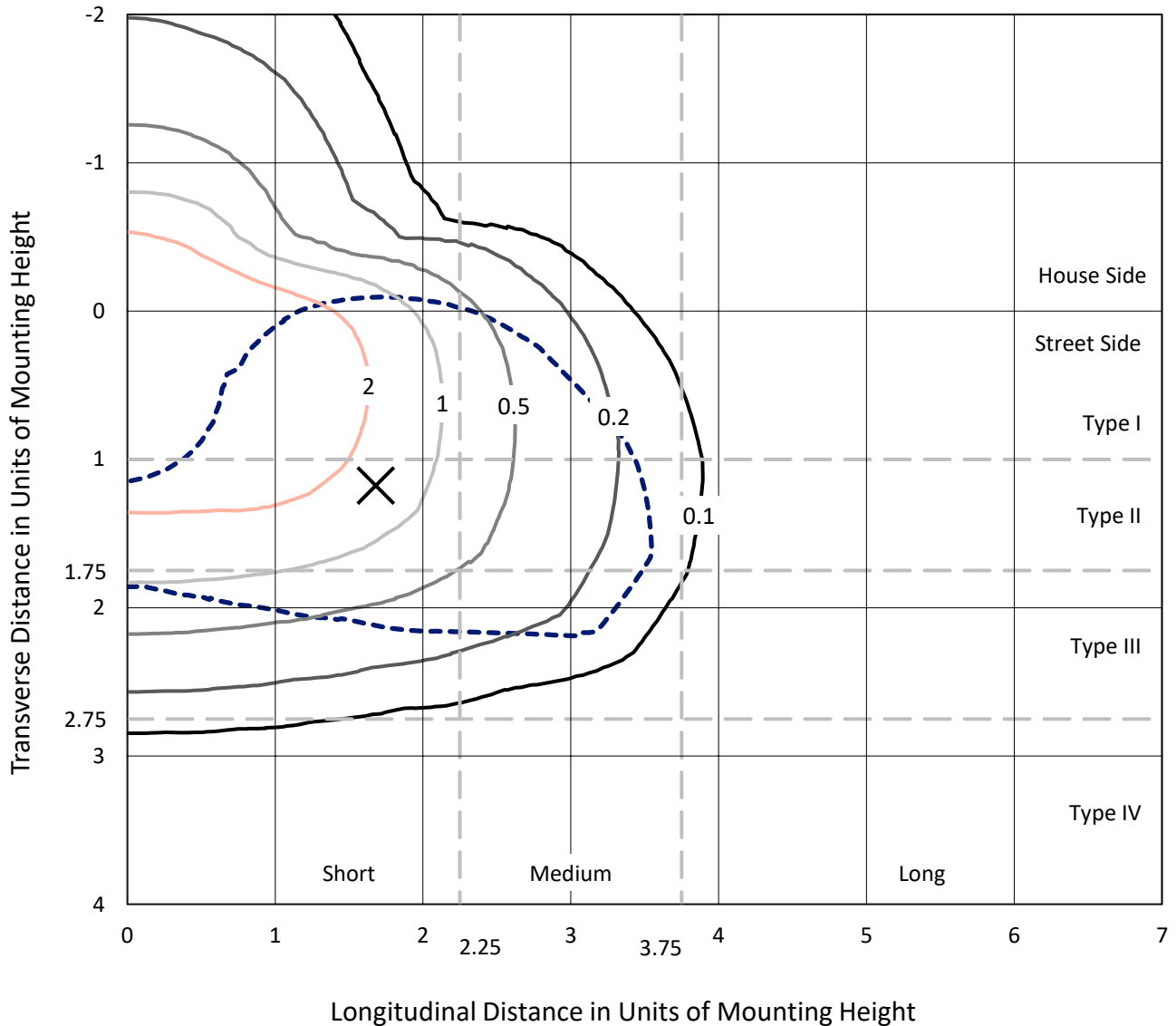
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

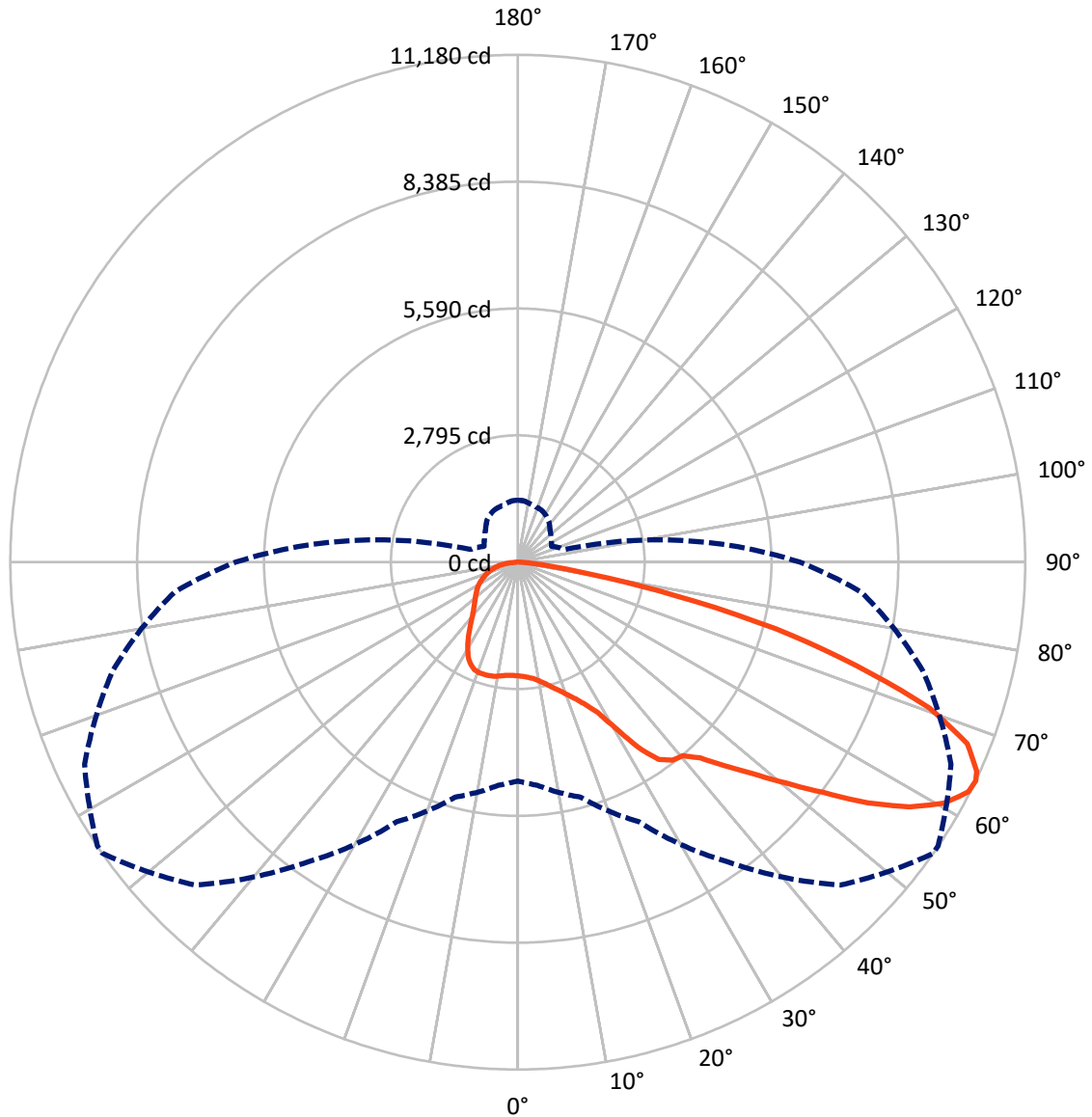
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4534.8 | 0.0 | 4534.8 |
| | % Fixture | 24.3 | 0.0 | 24.3 |
| Street Side | Lumens | 14133.2 | 0.0 | 14133.2 |
| | % Fixture | 75.7 | 0.0 | 75.7 |
| Total | Lumens | 18668.0 | 0.0 | 18668.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 243.6 | 1.3 |
| 10°-20° | 768.8 | 4.1 |
| 20°-30° | 1368.6 | 7.3 |
| 30°-40° | 2105.7 | 11.3 |
| 40°-50° | 2985.0 | 16.0 |
| 50°-60° | 4320.7 | 23.1 |
| 60°-70° | 4471.5 | 24.0 |
| 70°-80° | 2094.0 | 11.2 |
| 80°-90° | 310.0 | 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° | 18668.0 | 100.0 |
| 0°-180° | 18668.0 | 100.0 |

Coefficient of Utilization



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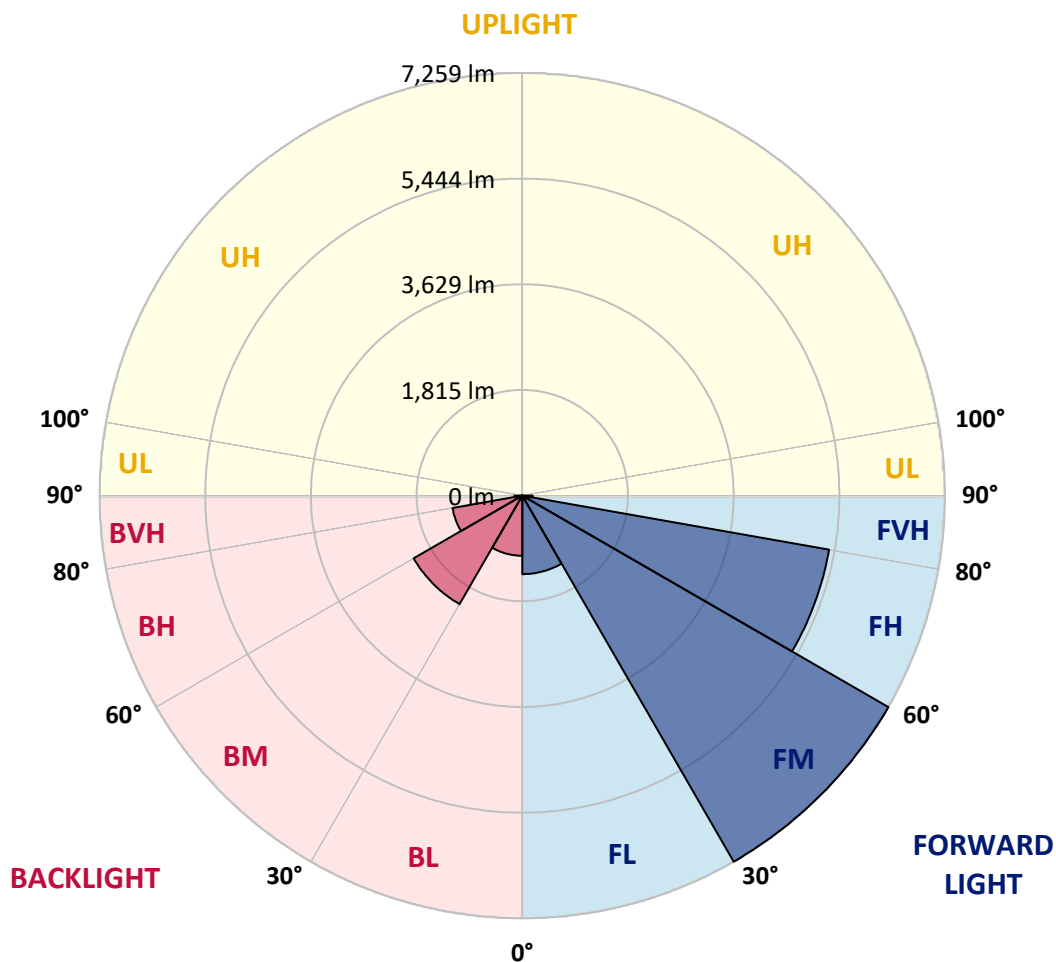
CATALOG NUMBER: GLAN-SA4B-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1348.1 | 7.2 | | | |
| FM | (30°-60°) | 7258.6 | 38.9 | | | |
| FH | (60°-80°) | 5348.9 | 28.7 | | | G3/7500 |
| FVH | (80°-90°) | 177.5 | 1.0 | | | G2/225 |
| BL | (0°-30°) | 1032.9 | 5.5 | B3/2500 | | |
| BM | (30°-60°) | 2152.9 | 11.5 | B2/2500 | | |
| BH | (60°-80°) | 1216.6 | 6.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 132.5 | 0.7 | | | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|
| 0° | 2504.7 | 2504.7 | 2504.7 | 2504.7 | 2504.7 | 2504.7 | 2504.7 | 2504.7 | 2504.7 | 2504.7 | 2504.7 |
| 2.5° | 2532.8 | 2531.7 | 2534.9 | 2531.7 | 2533.8 | 2526.5 | 2523.4 | 2525.5 | 2522.4 | 2517.2 | 2507.8 |
| 5° | 2564.0 | 2563.0 | 2564.0 | 2559.8 | 2561.9 | 2557.8 | 2550.5 | 2552.5 | 2547.3 | 2535.9 | 2522.4 |
| 7.5° | 2617.1 | 2612.9 | 2612.9 | 2611.9 | 2607.7 | 2601.5 | 2596.3 | 2594.2 | 2589.0 | 2574.4 | 2553.6 |
| 10° | 2685.7 | 2685.7 | 2686.8 | 2678.5 | 2683.7 | 2672.2 | 2667.0 | 2666.0 | 2648.3 | 2629.6 | 2600.4 |
| 12.5° | 2776.3 | 2781.5 | 2778.4 | 2774.2 | 2772.1 | 2767.9 | 2750.3 | 2754.4 | 2734.7 | 2702.4 | 2667.0 |
| 15° | 2888.7 | 2897.0 | 2891.8 | 2889.7 | 2884.5 | 2868.9 | 2861.6 | 2858.5 | 2832.5 | 2785.6 | 2738.8 |
| 17.5° | 3037.5 | 3027.1 | 3022.9 | 3017.7 | 2995.8 | 2984.4 | 2971.9 | 2969.8 | 2946.9 | 2891.8 | 2818.9 |
| 20° | 3167.5 | 3182.1 | 3173.8 | 3168.6 | 3146.7 | 3124.9 | 3115.5 | 3112.4 | 3092.6 | 3032.3 | 2915.7 |
| 22.5° | 3322.6 | 3325.7 | 3328.8 | 3316.3 | 3305.9 | 3289.3 | 3272.6 | 3267.4 | 3260.1 | 3197.7 | 3055.2 |
| 25° | 3488.0 | 3500.5 | 3490.1 | 3477.6 | 3465.1 | 3464.1 | 3479.7 | 3477.6 | 3474.5 | 3414.2 | 3240.4 |
| 27.5° | 3757.5 | 3769.0 | 3772.1 | 3758.6 | 3710.7 | 3714.9 | 3750.3 | 3761.7 | 3809.6 | 3709.7 | 3478.7 |
| 30° | 3909.5 | 3920.9 | 3946.9 | 3997.9 | 4073.9 | 4140.5 | 4225.8 | 4251.8 | 4297.6 | 4109.3 | 3761.7 |
| 32.5° | 4003.1 | 4007.3 | 4054.1 | 4148.8 | 4376.7 | 4625.4 | 4857.4 | 4866.8 | 4895.9 | 4631.6 | 4020.8 |
| 35° | 4150.9 | 4154.0 | 4191.5 | 4295.5 | 4563.0 | 4977.1 | 5336.1 | 5347.6 | 5323.6 | 4794.0 | 4141.5 |
| 37.5° | 4333.0 | 4341.3 | 4365.2 | 4451.6 | 4771.1 | 5271.6 | 5534.9 | 5526.5 | 5314.3 | 4923.0 | 4354.8 |
| 40° | 4598.3 | 4598.3 | 4570.2 | 4686.8 | 4990.6 | 5440.2 | 5604.6 | 5590.0 | 5533.8 | 5296.6 | 4679.5 |
| 42.5° | 4832.5 | 4828.3 | 4894.9 | 4974.0 | 5265.3 | 5700.3 | 5897.0 | 5920.9 | 6013.5 | 5765.9 | 5048.9 |
| 45° | 5137.4 | 5156.1 | 5193.5 | 5337.1 | 5732.6 | 6144.6 | 6398.5 | 6421.4 | 6552.5 | 6318.4 | 5480.7 |
| 47.5° | 5445.4 | 5451.6 | 5569.2 | 5760.7 | 6311.1 | 6747.1 | 6955.3 | 6992.7 | 7112.4 | 6964.6 | 5945.9 |
| 50° | 5663.9 | 5723.2 | 5911.5 | 6213.3 | 6907.4 | 7481.8 | 7644.1 | 7688.9 | 7900.1 | 7668.1 | 6488.0 |
| 52.5° | 5894.9 | 5953.2 | 6183.1 | 6643.1 | 7592.1 | 8233.1 | 8432.9 | 8463.1 | 8682.6 | 8379.8 | 7042.7 |
| 55° | 6092.6 | 6146.7 | 6407.9 | 7023.9 | 8137.4 | 9000.0 | 9362.1 | 9326.7 | 9431.8 | 8928.2 | 7470.3 |
| 57.5° | 6124.9 | 6168.6 | 6497.4 | 7267.4 | 8547.3 | 9657.6 | 10176.9 | 10197.7 | 10076.0 | 9338.2 | 7823.1 |
| 60° | 5875.1 | 5964.6 | 6342.4 | 7241.4 | 8731.5 | 10115.5 | 10784.6 | 10799.2 | 10453.7 | 9548.4 | 7963.6 |
| 62.5° | 5432.9 | 5423.5 | 5880.3 | 6823.1 | 8473.5 | 10219.6 | 11142.6 | 11126.9 | 10601.5 | 9447.4 | 7827.3 |
| 64° | 4822.1 | 4934.4 | 5361.1 | 6309.1 | 8057.2 | 10059.3 | 11180.0 | 11171.7 | 10530.7 | 9237.3 | 7595.2 |
| 65° | 4449.5 | 4443.3 | 4864.7 | 5888.7 | 7643.1 | 9817.9 | 11113.4 | 11102.0 | 10382.9 | 9048.9 | 7415.2 |
| 67.5° | 3212.3 | 3226.8 | 3643.1 | 4544.2 | 6213.3 | 8874.1 | 10679.5 | 10636.8 | 9800.2 | 8424.6 | 6730.5 |
| 70° | 1945.9 | 1954.2 | 2281.0 | 3014.6 | 4459.9 | 7173.8 | 9626.4 | 9628.5 | 8908.4 | 7492.2 | 5728.4 |
| 72.5° | 1025.0 | 1046.8 | 1177.9 | 1711.8 | 2708.6 | 5033.3 | 7809.6 | 7994.8 | 7648.3 | 6394.4 | 4525.5 |
| 75° | 570.2 | 573.4 | 666.0 | 843.9 | 1381.9 | 2816.9 | 5869.9 | 5923.0 | 6055.1 | 5146.7 | 3346.5 |
| 77.5° | 435.0 | 441.2 | 470.3 | 545.3 | 752.3 | 1305.9 | 3552.5 | 3818.9 | 4267.4 | 3628.5 | 1909.5 |
| 80° | 352.8 | 359.0 | 384.0 | 428.7 | 500.5 | 619.1 | 1650.4 | 1794.0 | 2284.1 | 1610.8 | 745.1 |
| 82.5° | 274.7 | 270.6 | 302.8 | 331.9 | 364.2 | 366.3 | 677.4 | 749.2 | 930.3 | 693.0 | 322.6 |
| 85° | 204.0 | 204.0 | 230.0 | 223.7 | 235.2 | 214.4 | 298.6 | 329.9 | 372.5 | 294.5 | 149.8 |
| 87.5° | 81.2 | 89.5 | 150.9 | 135.3 | 105.1 | 84.3 | 110.3 | 116.5 | 129.0 | 115.5 | 62.4 |
| 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: GLAN-SA4B-727-U-T3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2504.7 | 2504.7 | 2504.7 | 2504.7 | 2504.7 | 2504.7 | 2504.7 | 2504.7 | 2504.7 | 2504.7 | 2504.7 |
| 2.5° | 2508.8 | 2512.0 | 2504.7 | 2499.5 | 2497.4 | 2494.3 | 2491.2 | 2492.2 | 2496.4 | 2500.5 | 2499.5 |
| 5° | 2521.3 | 2522.4 | 2509.9 | 2503.6 | 2499.5 | 2495.3 | 2495.3 | 2498.4 | 2506.8 | 2513.0 | 2513.0 |
| 7.5° | 2552.5 | 2552.5 | 2534.9 | 2523.4 | 2517.2 | 2509.9 | 2507.8 | 2508.8 | 2515.1 | 2523.4 | 2524.5 |
| 10° | 2601.5 | 2597.3 | 2574.4 | 2556.7 | 2545.3 | 2527.6 | 2512.0 | 2503.6 | 2506.8 | 2512.0 | 2512.0 |
| 12.5° | 2660.8 | 2649.3 | 2620.2 | 2596.3 | 2568.2 | 2534.9 | 2502.6 | 2486.0 | 2484.9 | 2490.1 | 2488.0 |
| 15° | 2724.2 | 2711.8 | 2671.2 | 2627.5 | 2578.6 | 2529.7 | 2491.2 | 2467.2 | 2448.5 | 2443.3 | 2454.7 |
| 17.5° | 2798.1 | 2772.1 | 2715.9 | 2655.6 | 2582.7 | 2519.3 | 2458.9 | 2410.0 | 2376.7 | 2367.3 | 2370.4 |
| 20° | 2887.6 | 2853.3 | 2777.3 | 2682.6 | 2579.6 | 2481.8 | 2388.1 | 2322.6 | 2268.5 | 2251.8 | 2253.9 |
| 22.5° | 3011.4 | 2952.1 | 2840.8 | 2696.1 | 2553.6 | 2411.0 | 2281.0 | 2195.6 | 2130.1 | 2104.1 | 2119.7 |
| 25° | 3151.9 | 3087.4 | 2901.1 | 2693.0 | 2486.0 | 2297.6 | 2154.0 | 2042.7 | 1983.4 | 1944.8 | 1953.2 |
| 27.5° | 3345.5 | 3231.0 | 2965.7 | 2664.9 | 2389.2 | 2159.2 | 1992.7 | 1887.6 | 1833.5 | 1813.7 | 1823.1 |
| 30° | 3593.1 | 3417.3 | 3035.4 | 2589.0 | 2236.2 | 1984.4 | 1830.4 | 1761.7 | 1729.4 | 1704.5 | 1712.8 |
| 32.5° | 3772.1 | 3548.4 | 3051.0 | 2461.0 | 2070.8 | 1825.2 | 1720.1 | 1669.1 | 1633.7 | 1609.8 | 1615.0 |
| 35° | 3900.1 | 3659.7 | 3043.7 | 2303.8 | 1898.0 | 1694.1 | 1632.7 | 1591.1 | 1533.8 | 1481.8 | 1472.4 |
| 37.5° | 4071.8 | 3799.2 | 2990.6 | 2132.2 | 1727.4 | 1605.6 | 1561.9 | 1484.9 | 1402.7 | 1333.0 | 1329.9 |
| 40° | 4335.1 | 3962.5 | 2877.2 | 1930.3 | 1581.7 | 1540.1 | 1487.0 | 1387.1 | 1298.6 | 1242.5 | 1238.3 |
| 42.5° | 4606.7 | 4113.4 | 2723.2 | 1718.0 | 1462.0 | 1471.4 | 1406.9 | 1308.0 | 1253.9 | 1217.5 | 1213.3 |
| 45° | 4938.6 | 4276.8 | 2556.7 | 1533.8 | 1373.6 | 1406.9 | 1337.1 | 1279.9 | 1247.7 | 1223.7 | 1217.5 |
| 47.5° | 5297.6 | 4444.3 | 2369.4 | 1368.4 | 1298.6 | 1347.6 | 1308.0 | 1282.0 | 1264.3 | 1247.7 | 1240.4 |
| 50° | 5684.7 | 4631.6 | 2193.5 | 1235.2 | 1231.0 | 1286.2 | 1304.9 | 1295.5 | 1285.1 | 1279.9 | 1273.7 |
| 52.5° | 6109.3 | 4823.1 | 2045.8 | 1141.5 | 1171.7 | 1242.5 | 1305.9 | 1313.2 | 1313.2 | 1310.1 | 1305.9 |
| 55° | 6396.5 | 4956.3 | 1895.9 | 1065.6 | 1111.3 | 1207.1 | 1303.8 | 1331.9 | 1342.4 | 1338.2 | 1334.0 |
| 57.5° | 6608.7 | 5029.1 | 1707.6 | 1000.0 | 1060.4 | 1172.7 | 1292.4 | 1334.0 | 1344.4 | 1349.6 | 1347.6 |
| 60° | 6652.4 | 4961.5 | 1461.0 | 931.3 | 1005.2 | 1122.8 | 1250.8 | 1302.8 | 1316.3 | 1348.6 | 1351.7 |
| 62.5° | 6455.8 | 4753.4 | 1215.4 | 863.7 | 937.6 | 1046.8 | 1194.6 | 1267.4 | 1294.5 | 1344.4 | 1349.6 |
| 64° | 6214.4 | 4520.3 | 1079.1 | 821.0 | 893.9 | 1004.2 | 1166.5 | 1258.1 | 1293.4 | 1360.0 | 1364.2 |
| 65° | 6037.5 | 4350.7 | 993.8 | 794.0 | 865.8 | 976.1 | 1150.9 | 1261.2 | 1302.8 | 1384.0 | 1390.2 |
| 67.5° | 5386.1 | 3766.9 | 822.1 | 730.5 | 799.2 | 928.2 | 1154.0 | 1287.2 | 1300.7 | 1393.3 | 1392.3 |
| 70° | 4456.8 | 2999.0 | 688.9 | 672.2 | 734.7 | 889.7 | 1141.5 | 1245.6 | 1246.6 | 1308.0 | 1293.4 |
| 72.5° | 3337.1 | 2216.4 | 597.3 | 611.9 | 662.9 | 798.1 | 1078.0 | 1189.4 | 1171.7 | 1180.0 | 1165.5 |
| 75° | 2292.4 | 1466.2 | 514.0 | 547.3 | 587.9 | 705.5 | 988.6 | 1080.1 | 1052.0 | 1041.6 | 1031.2 |
| 77.5° | 1223.7 | 810.6 | 427.7 | 483.9 | 510.9 | 609.8 | 862.6 | 951.1 | 922.0 | 881.4 | 867.8 |
| 80° | 495.3 | 381.9 | 344.4 | 400.6 | 416.2 | 491.2 | 718.0 | 773.2 | 751.3 | 680.5 | 657.6 |
| 82.5° | 248.7 | 228.9 | 270.6 | 315.3 | 316.3 | 350.7 | 533.8 | 585.8 | 536.9 | 450.6 | 430.8 |
| 85° | 130.1 | 134.2 | 186.3 | 221.6 | 195.6 | 189.4 | 320.5 | 354.8 | 325.7 | 283.0 | 254.9 |
| 87.5° | 46.8 | 54.1 | 97.8 | 96.8 | 68.7 | 36.4 | 70.8 | 34.3 | 18.7 | 11.4 | 14.6 |
| 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)