

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: P532790

Luminaire Tested: **GLAN-SA8A-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8A-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24614 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

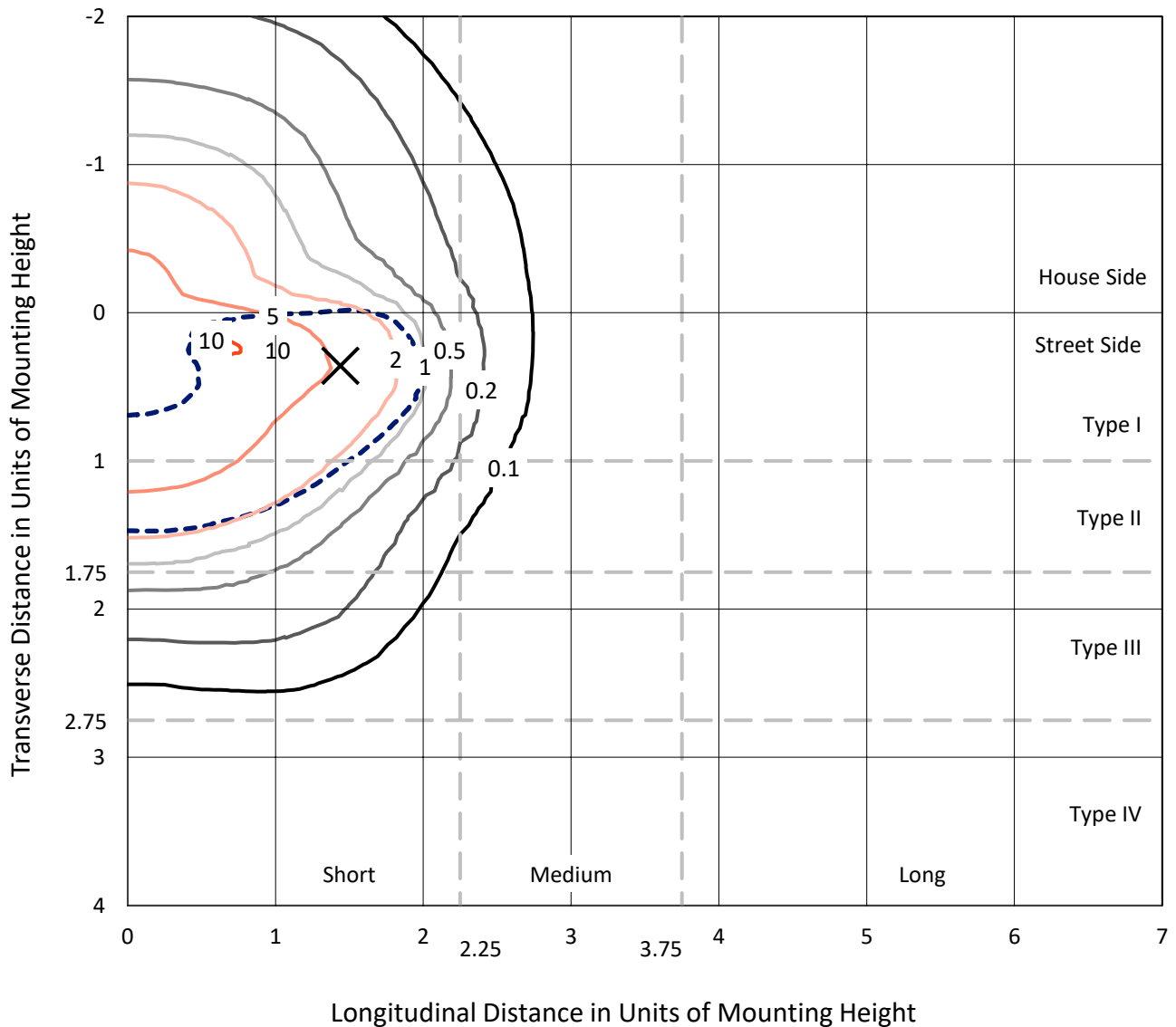
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

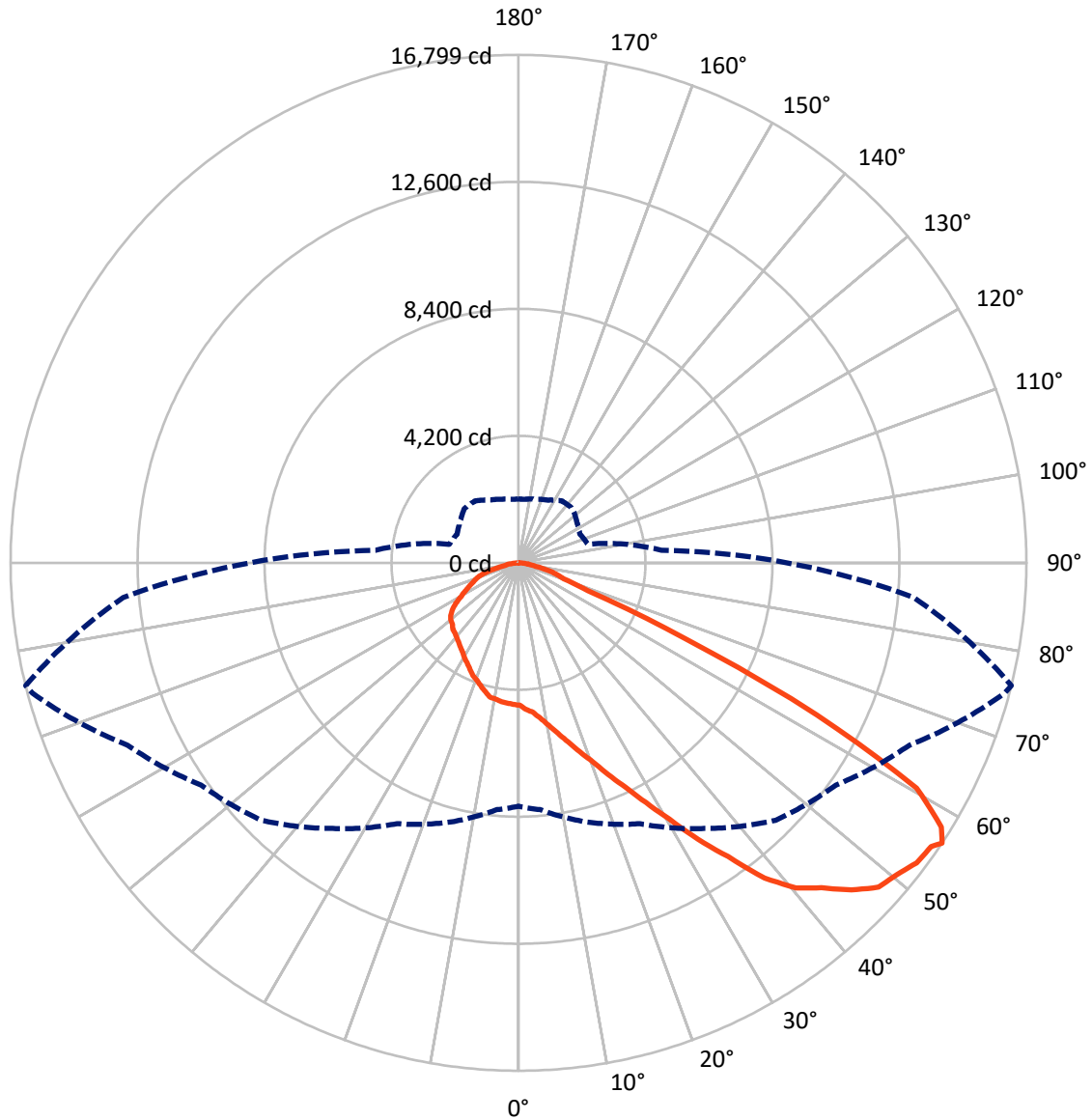
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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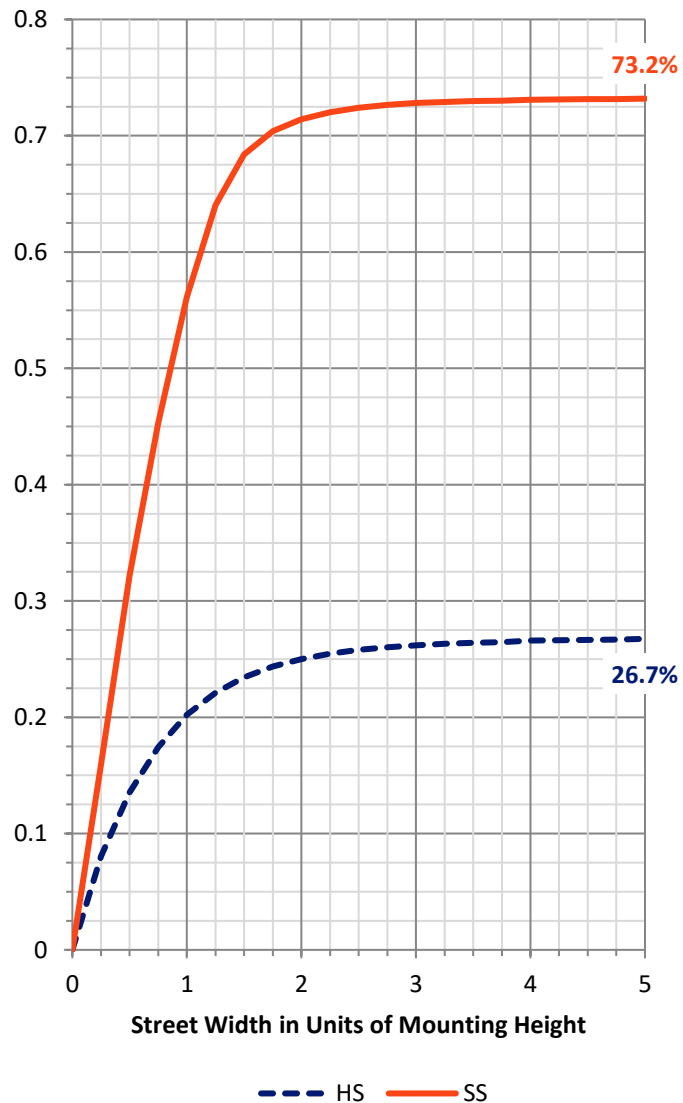
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6618.0 | 0.0 | 6618.0 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| Street Side | Lumens | 17996.0 | 0.0 | 17996.0 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| Total | Lumens | 24614.0 | 0.0 | 24614.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 467.0 | 1.9 |
| 10°-20° | 1467.1 | 6.0 |
| 20°-30° | 2565.9 | 10.4 |
| 30°-40° | 4017.4 | 16.3 |
| 40°-50° | 5844.1 | 23.7 |
| 50°-60° | 6423.1 | 26.1 |
| 60°-70° | 2867.0 | 11.6 |
| 70°-80° | 828.1 | 3.4 |
| 80°-90° | 134.3 | 0.5 |
| 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° | 24614.0 | 100.0 |
| 0°-180° | 24614.0 | 100.0 |

Coefficient of Utilization

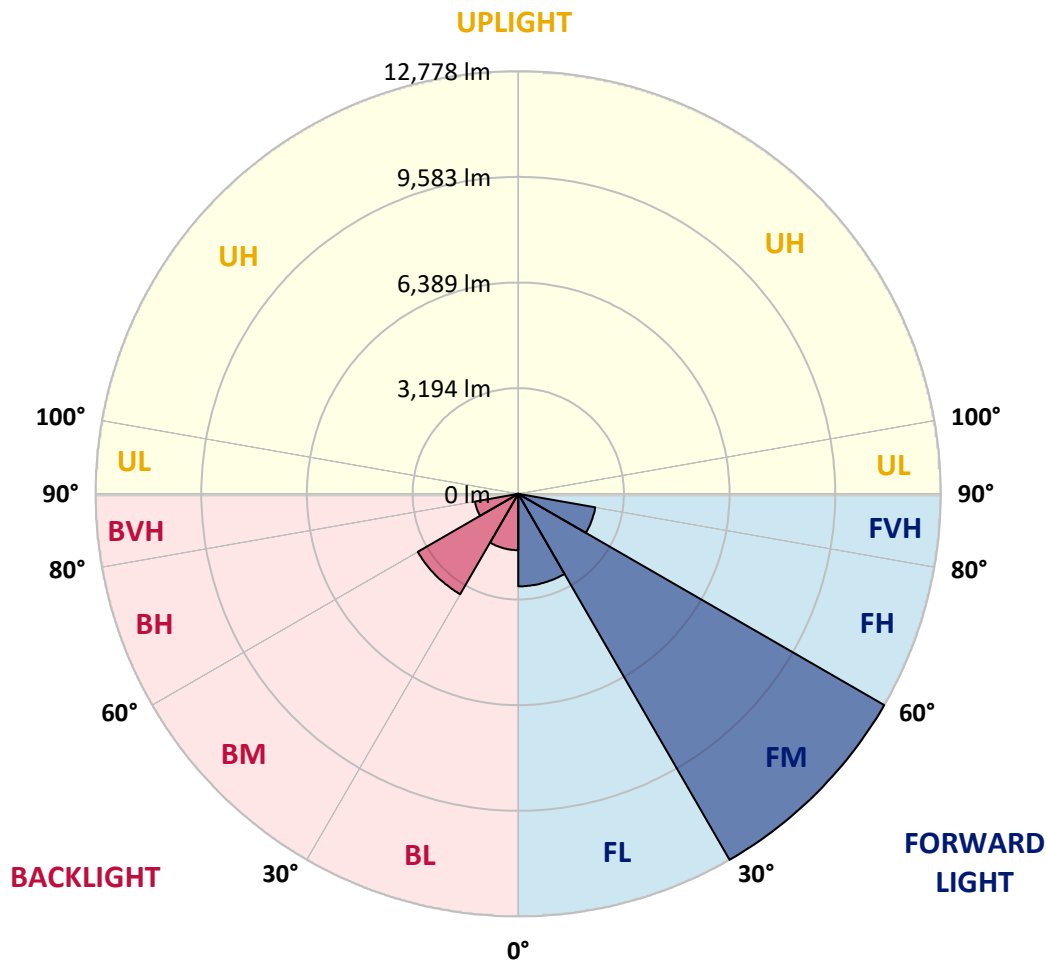


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2797.1 | 11.4 | | | |
| FM (30°-60°) | 12777.6 | 51.9 | | | |
| FH (60°-80°) | 2363.5 | 9.6 | | | G2/5000 |
| FVH (80°-90°) | 57.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1702.9 | 6.9 | B3/2500 | | |
| BM (30°-60°) | 3507.0 | 14.2 | B3/5000 | | |
| BH (60°-80°) | 1331.5 | 5.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 76.5 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4709.6 | 4709.6 | 4709.6 | 4709.6 | 4709.6 | 4709.6 | 4709.6 | 4709.6 | 4709.6 | 4709.6 | 4709.6 |
| 2.5° | 5188.2 | 5105.2 | 5098.8 | 5076.5 | 5089.3 | 5031.8 | 4971.2 | 4891.4 | 4808.5 | 4859.5 | 4738.3 |
| 5° | 5551.9 | 5440.3 | 5484.9 | 5408.4 | 5417.9 | 5341.3 | 5216.9 | 5124.4 | 5022.3 | 4961.6 | 4875.5 |
| 7.5° | 5679.6 | 5689.1 | 5721.0 | 5708.3 | 5644.5 | 5644.5 | 5561.5 | 5398.8 | 5220.1 | 5185.0 | 5041.4 |
| 10° | 5851.9 | 5855.1 | 5820.0 | 5829.5 | 5918.9 | 5877.4 | 5804.0 | 5733.8 | 5504.1 | 5462.6 | 5207.3 |
| 12.5° | 5912.5 | 5855.1 | 5912.5 | 5963.5 | 6068.8 | 6126.3 | 6110.3 | 6059.3 | 5813.6 | 5784.9 | 5411.5 |
| 15° | 5922.1 | 5887.0 | 5934.8 | 6049.7 | 6142.2 | 6384.7 | 6506.0 | 6470.9 | 6145.4 | 6148.6 | 5641.3 |
| 17.5° | 5877.4 | 5925.3 | 5944.4 | 6043.3 | 6257.1 | 6483.6 | 6834.6 | 6882.5 | 6614.5 | 6573.0 | 5931.6 |
| 20° | 5938.0 | 5902.9 | 5928.4 | 6017.8 | 6301.8 | 6655.9 | 7115.4 | 7431.3 | 7054.8 | 7026.1 | 6231.6 |
| 22.5° | 6170.9 | 6123.1 | 6116.7 | 6174.1 | 6378.3 | 6745.3 | 7412.2 | 7980.1 | 7590.8 | 7606.8 | 6604.9 |
| 25° | 6352.8 | 6378.3 | 6356.0 | 6352.8 | 6480.4 | 6879.3 | 7804.6 | 8634.2 | 8318.3 | 8225.8 | 7045.2 |
| 27.5° | 6665.5 | 6726.1 | 6681.5 | 6742.1 | 6713.4 | 7080.3 | 8085.4 | 9358.5 | 9103.3 | 8978.8 | 7444.1 |
| 30° | 7099.5 | 7131.4 | 7089.9 | 7089.9 | 7003.7 | 7361.1 | 8340.7 | 10114.7 | 10009.4 | 9840.3 | 7913.1 |
| 32.5° | 7670.6 | 7718.5 | 7635.5 | 7587.6 | 7574.9 | 7779.1 | 8800.1 | 10861.4 | 11040.1 | 10896.5 | 8535.3 |
| 35° | 8426.8 | 8398.1 | 8299.2 | 8254.5 | 8082.2 | 8420.4 | 9483.0 | 11719.7 | 12188.7 | 11933.5 | 9288.3 |
| 37.5° | 9093.7 | 9049.0 | 9042.6 | 8793.8 | 8835.2 | 9112.8 | 10063.7 | 12370.6 | 13302.3 | 13228.9 | 10082.8 |
| 40° | 9715.9 | 9757.4 | 9824.4 | 9684.0 | 9620.2 | 9926.5 | 10740.1 | 12868.4 | 14167.0 | 14138.3 | 10695.5 |
| 42.5° | 10382.8 | 10344.5 | 10462.5 | 10344.5 | 10248.7 | 10682.7 | 11474.0 | 13213.0 | 14926.4 | 14690.3 | 11336.8 |
| 45° | 11349.6 | 11228.3 | 11269.8 | 11279.4 | 11209.2 | 11368.7 | 11777.1 | 13461.8 | 15459.3 | 15433.7 | 11805.8 |
| 47.5° | 12156.8 | 12160.0 | 12089.8 | 12035.6 | 11821.8 | 11981.3 | 12115.3 | 13618.2 | 16071.9 | 16030.4 | 11987.7 |
| 50° | 12456.8 | 12415.3 | 12619.5 | 12737.5 | 12750.3 | 12424.8 | 12380.2 | 13704.3 | 16394.2 | 16212.3 | 12169.6 |
| 52.5° | 11378.3 | 11416.6 | 11738.8 | 12440.8 | 12846.0 | 12881.1 | 12689.7 | 13883.0 | 16525.0 | 16486.7 | 12316.4 |
| 55° | 9157.5 | 9342.6 | 9872.2 | 10682.7 | 11643.1 | 12699.3 | 13024.7 | 14068.1 | 16595.2 | 16563.3 | 12967.3 |
| 56° | 8050.3 | 8193.9 | 8883.1 | 9518.1 | 10724.2 | 12038.8 | 12814.1 | 14265.9 | 16649.4 | 16799.4 | 13120.4 |
| 57.5° | 6480.4 | 6646.4 | 7140.9 | 7862.1 | 9285.1 | 10781.6 | 12233.4 | 14023.4 | 16438.8 | 16496.3 | 13232.1 |
| 60° | 4052.3 | 4068.2 | 4661.7 | 5137.1 | 6139.0 | 7600.4 | 9336.2 | 12201.5 | 15213.6 | 15130.6 | 11885.6 |
| 62.5° | 2657.9 | 2661.1 | 3200.3 | 3589.6 | 4045.9 | 4380.9 | 5494.5 | 8091.8 | 11225.1 | 11078.3 | 8461.9 |
| 65° | 1866.6 | 1908.1 | 2326.1 | 2846.2 | 3031.2 | 2855.7 | 2820.6 | 4266.1 | 6269.9 | 6059.3 | 4546.8 |
| 67.5° | 1365.6 | 1368.8 | 1739.0 | 2297.4 | 2565.4 | 2172.9 | 1764.5 | 2083.6 | 2482.4 | 2476.0 | 2105.9 |
| 70° | 903.0 | 941.3 | 1225.3 | 1716.6 | 2022.9 | 1745.3 | 1442.2 | 1490.1 | 1579.4 | 1579.4 | 1566.7 |
| 72.5° | 526.5 | 561.6 | 749.8 | 1088.1 | 1135.9 | 1091.2 | 1142.3 | 1276.3 | 1333.7 | 1330.6 | 1314.6 |
| 75° | 299.9 | 315.9 | 357.4 | 453.1 | 564.8 | 666.9 | 839.2 | 966.8 | 1024.2 | 1059.3 | 1017.9 |
| 77.5° | 175.5 | 185.1 | 210.6 | 258.5 | 293.6 | 360.6 | 456.3 | 545.6 | 622.2 | 612.6 | 619.0 |
| 80° | 92.5 | 92.5 | 118.1 | 153.2 | 204.2 | 255.3 | 303.1 | 354.2 | 395.7 | 405.2 | 414.8 |
| 82.5° | 54.2 | 57.4 | 76.6 | 111.7 | 146.8 | 181.9 | 232.9 | 268.0 | 306.3 | 309.5 | 315.9 |
| 85° | 28.7 | 31.9 | 47.9 | 73.4 | 98.9 | 111.7 | 114.9 | 108.5 | 118.1 | 111.7 | 127.6 |
| 87.5° | 9.6 | 9.6 | 16.0 | 12.8 | 12.8 | 16.0 | 19.1 | 19.1 | 25.5 | 25.5 | 25.5 |
| 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-SA8A-830-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4709.6 | 4709.6 | 4709.6 | 4709.6 | 4709.6 | 4709.6 | 4709.6 | 4709.6 | 4709.6 | 4709.6 | 4709.6 |
| 2.5° | 4735.1 | 4735.1 | 4680.9 | 4578.8 | 4562.8 | 4521.3 | 4483.0 | 4479.8 | 4451.1 | 4425.6 | 4412.8 |
| 5° | 4824.4 | 4725.5 | 4645.8 | 4553.2 | 4444.7 | 4393.7 | 4336.3 | 4272.4 | 4246.9 | 4272.4 | 4269.2 |
| 7.5° | 4926.5 | 4843.6 | 4604.3 | 4432.0 | 4307.5 | 4256.5 | 4192.7 | 4125.7 | 4132.0 | 4132.0 | 4087.4 |
| 10° | 5025.5 | 4913.8 | 4530.9 | 4310.7 | 4128.9 | 4090.6 | 4055.5 | 4081.0 | 4112.9 | 4119.3 | 4090.6 |
| 12.5° | 5191.4 | 4939.3 | 4495.8 | 4189.5 | 4074.6 | 3991.7 | 4014.0 | 4084.2 | 4151.2 | 4132.0 | 4154.4 |
| 15° | 5315.8 | 4961.6 | 4336.3 | 4065.0 | 3921.5 | 3959.7 | 4039.5 | 4087.4 | 4199.1 | 4186.3 | 4208.6 |
| 17.5° | 5437.1 | 4974.4 | 4179.9 | 3899.1 | 3838.5 | 3943.8 | 4004.4 | 4141.6 | 4176.7 | 4253.3 | 4282.0 |
| 20° | 5685.9 | 4999.9 | 4020.4 | 3797.0 | 3777.9 | 3899.1 | 4004.4 | 4068.2 | 4144.8 | 4211.8 | 4211.8 |
| 22.5° | 5813.6 | 4987.2 | 3915.1 | 3663.0 | 3723.6 | 3800.2 | 3895.9 | 4004.4 | 4004.4 | 4068.2 | 4071.4 |
| 25° | 5973.1 | 4936.1 | 3749.2 | 3599.2 | 3643.9 | 3717.2 | 3825.7 | 3787.4 | 3828.9 | 3828.9 | 3880.0 |
| 27.5° | 6155.0 | 4827.6 | 3605.6 | 3484.3 | 3573.7 | 3653.4 | 3669.4 | 3643.9 | 3596.0 | 3589.6 | 3570.5 |
| 30° | 6301.8 | 4693.6 | 3500.3 | 3446.0 | 3519.4 | 3564.1 | 3513.0 | 3458.8 | 3375.8 | 3369.5 | 3324.8 |
| 32.5° | 6502.8 | 4527.7 | 3369.5 | 3350.3 | 3433.3 | 3436.5 | 3420.5 | 3337.5 | 3216.3 | 3165.2 | 3114.2 |
| 35° | 6841.0 | 4432.0 | 3270.5 | 3299.3 | 3324.8 | 3315.2 | 3286.5 | 3197.1 | 3075.9 | 3053.6 | 3034.4 |
| 37.5° | 7089.9 | 4361.8 | 3168.4 | 3203.5 | 3225.9 | 3238.6 | 3152.5 | 3053.6 | 3056.8 | 3012.1 | 2999.3 |
| 40° | 7370.7 | 4317.1 | 3085.5 | 3101.4 | 3104.6 | 3146.1 | 3040.8 | 2992.9 | 3015.3 | 2986.6 | 3005.7 |
| 42.5° | 7731.2 | 4329.9 | 2999.3 | 2986.6 | 3047.2 | 3031.2 | 2980.2 | 2916.4 | 2929.1 | 2843.0 | 2855.7 |
| 45° | 7922.7 | 4416.0 | 2948.3 | 2890.8 | 2957.8 | 2954.7 | 2887.6 | 2827.0 | 2750.4 | 2584.5 | 2590.9 |
| 47.5° | 8050.3 | 4438.4 | 2827.0 | 2788.7 | 2858.9 | 2900.4 | 2823.8 | 2683.4 | 2574.9 | 2456.9 | 2428.2 |
| 50° | 8181.1 | 4479.8 | 2769.6 | 2689.8 | 2718.5 | 2817.4 | 2721.7 | 2587.7 | 2482.4 | 2377.1 | 2393.1 |
| 52.5° | 8296.0 | 4559.6 | 2657.9 | 2539.9 | 2590.9 | 2699.4 | 2648.3 | 2485.6 | 2370.7 | 2284.6 | 2259.1 |
| 55° | 8806.5 | 4738.3 | 2469.7 | 2316.5 | 2437.7 | 2574.9 | 2546.2 | 2348.4 | 2224.0 | 2179.3 | 2172.9 |
| 56° | 8886.3 | 4744.7 | 2370.7 | 2239.9 | 2351.6 | 2533.5 | 2498.4 | 2287.8 | 2176.1 | 2105.9 | 2109.1 |
| 57.5° | 8899.1 | 4668.1 | 2230.3 | 2169.7 | 2265.4 | 2472.8 | 2428.2 | 2239.9 | 2086.8 | 2022.9 | 2003.8 |
| 60° | 7830.1 | 3643.9 | 2054.9 | 2016.6 | 2128.2 | 2287.8 | 2271.8 | 2109.1 | 1936.8 | 1863.4 | 1898.5 |
| 62.5° | 5338.2 | 2670.7 | 1917.7 | 1911.3 | 1968.7 | 2125.1 | 2083.6 | 1936.8 | 1793.2 | 1745.3 | 1723.0 |
| 65° | 3107.8 | 2026.1 | 1783.6 | 1758.1 | 1806.0 | 1888.9 | 1917.7 | 1764.5 | 1614.5 | 1582.6 | 1573.0 |
| 67.5° | 1834.7 | 1675.2 | 1611.3 | 1569.9 | 1553.9 | 1605.0 | 1627.3 | 1537.9 | 1388.0 | 1343.3 | 1381.6 |
| 70° | 1534.8 | 1490.1 | 1493.3 | 1423.1 | 1384.8 | 1349.7 | 1330.6 | 1250.8 | 1126.3 | 1068.9 | 1053.0 |
| 72.5° | 1324.2 | 1305.0 | 1292.3 | 1228.4 | 1193.3 | 1113.6 | 1030.6 | 950.8 | 858.3 | 810.5 | 813.6 |
| 75° | 1011.5 | 1005.1 | 1011.5 | 979.6 | 918.9 | 855.1 | 778.5 | 676.4 | 606.2 | 545.6 | 558.4 |
| 77.5° | 603.1 | 622.2 | 631.8 | 619.0 | 593.5 | 536.0 | 488.2 | 421.2 | 354.2 | 306.3 | 299.9 |
| 80° | 414.8 | 430.8 | 446.7 | 430.8 | 405.2 | 363.7 | 312.7 | 261.6 | 213.8 | 188.3 | 181.9 |
| 82.5° | 315.9 | 331.8 | 341.4 | 325.5 | 293.6 | 248.9 | 213.8 | 178.7 | 140.4 | 114.9 | 108.5 |
| 85° | 114.9 | 130.8 | 127.6 | 153.2 | 165.9 | 159.5 | 137.2 | 105.3 | 79.8 | 57.4 | 54.2 |
| 87.5° | 31.9 | 28.7 | 31.9 | 31.9 | 31.9 | 28.7 | 25.5 | 25.5 | 25.5 | 16.0 | 12.8 |
| 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)