

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: P653044

Luminaire Tested: **GLAN-SA8C-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P653044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8C-840-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27868.2 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

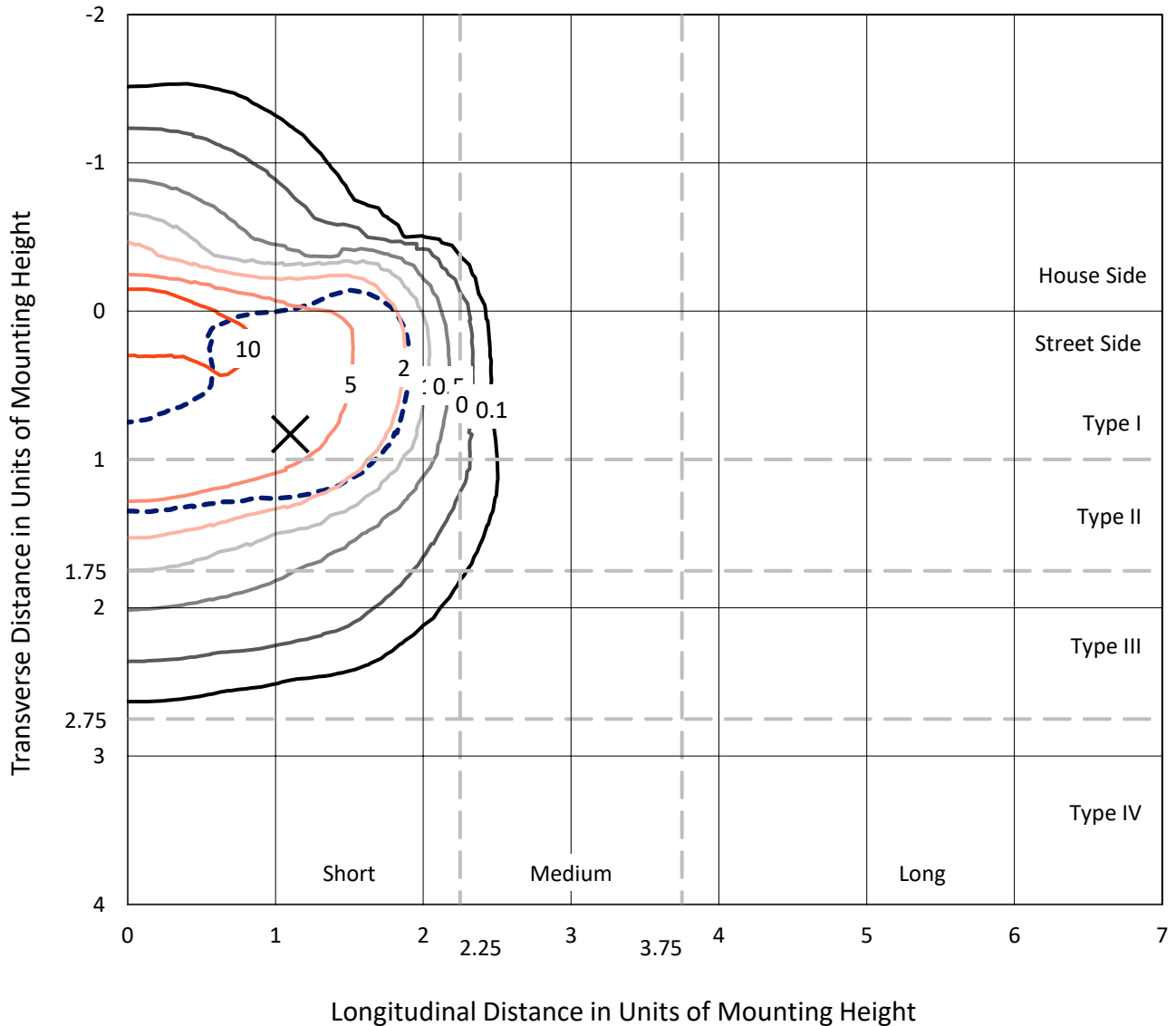
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

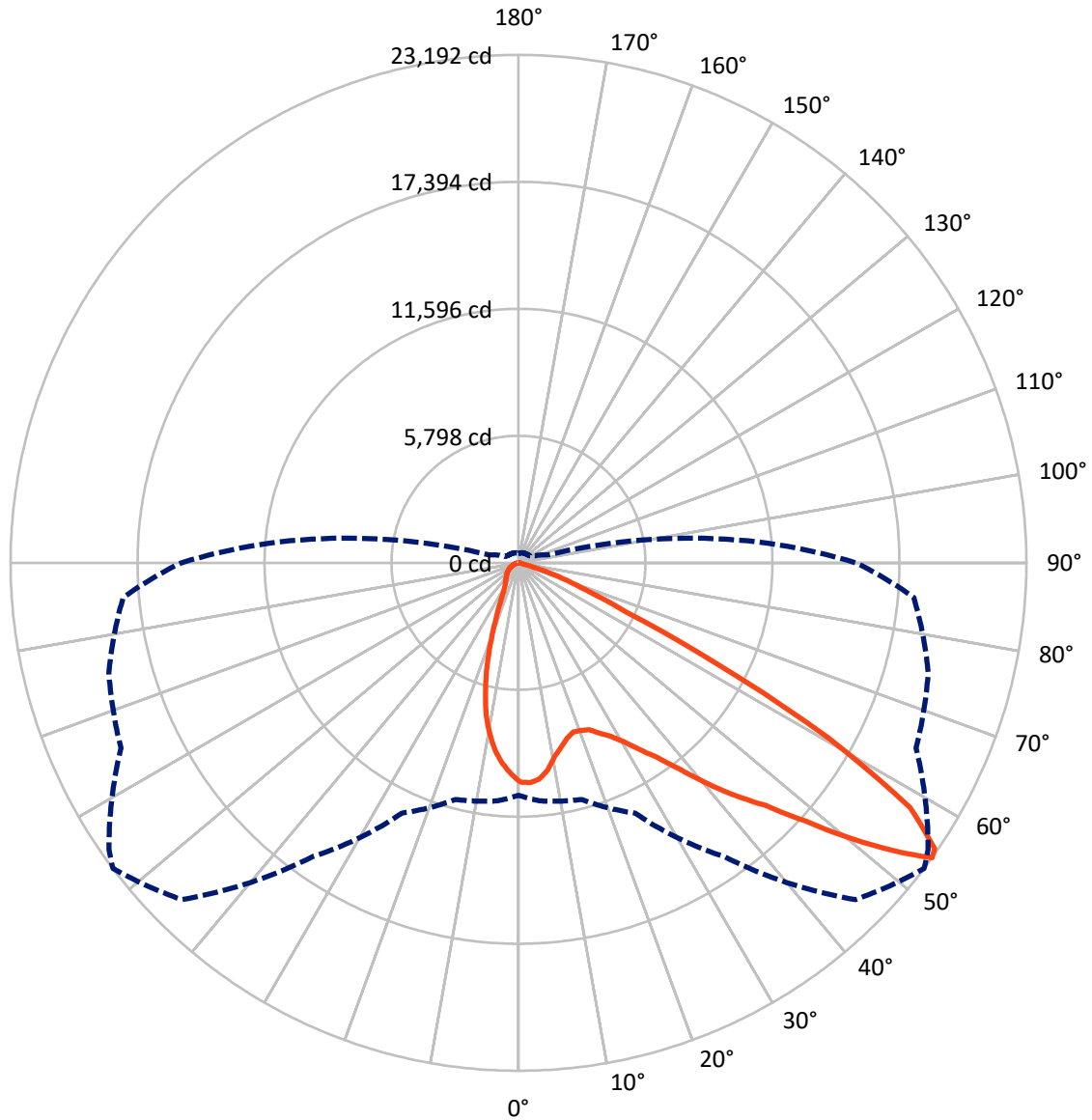
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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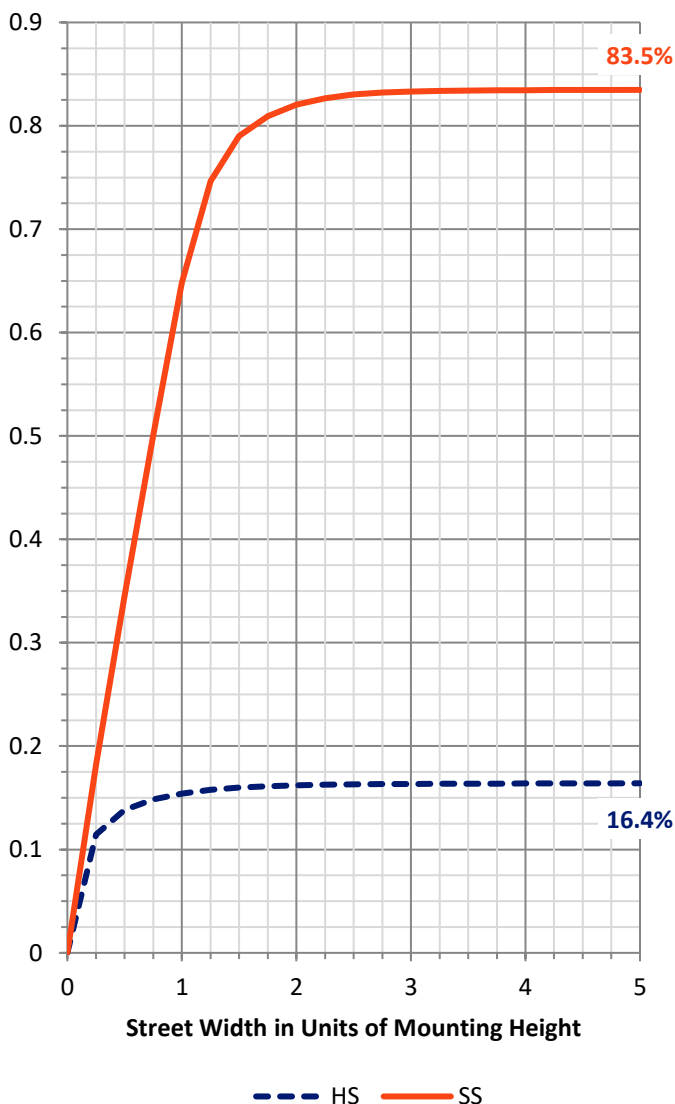
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4610.9 | 0.0 | 4610.9 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 23257.3 | 0.0 | 23257.3 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 27868.2 | 0.0 | 27868.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 858.8 | 3.1 |
| 10°-20° | 1969.0 | 7.1 |
| 20°-30° | 2798.4 | 10.0 |
| 30°-40° | 4318.6 | 15.5 |
| 40°-50° | 6771.2 | 24.3 |
| 50°-60° | 7865.7 | 28.2 |
| 60°-70° | 2972.1 | 10.7 |
| 70°-80° | 282.6 | 1.0 |
| 80°-90° | 31.8 | 0.1 |
| 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° | 27868.2 | 100.0 |
| 0°-180° | 27868.2 | 100.0 |

Coefficient of Utilization



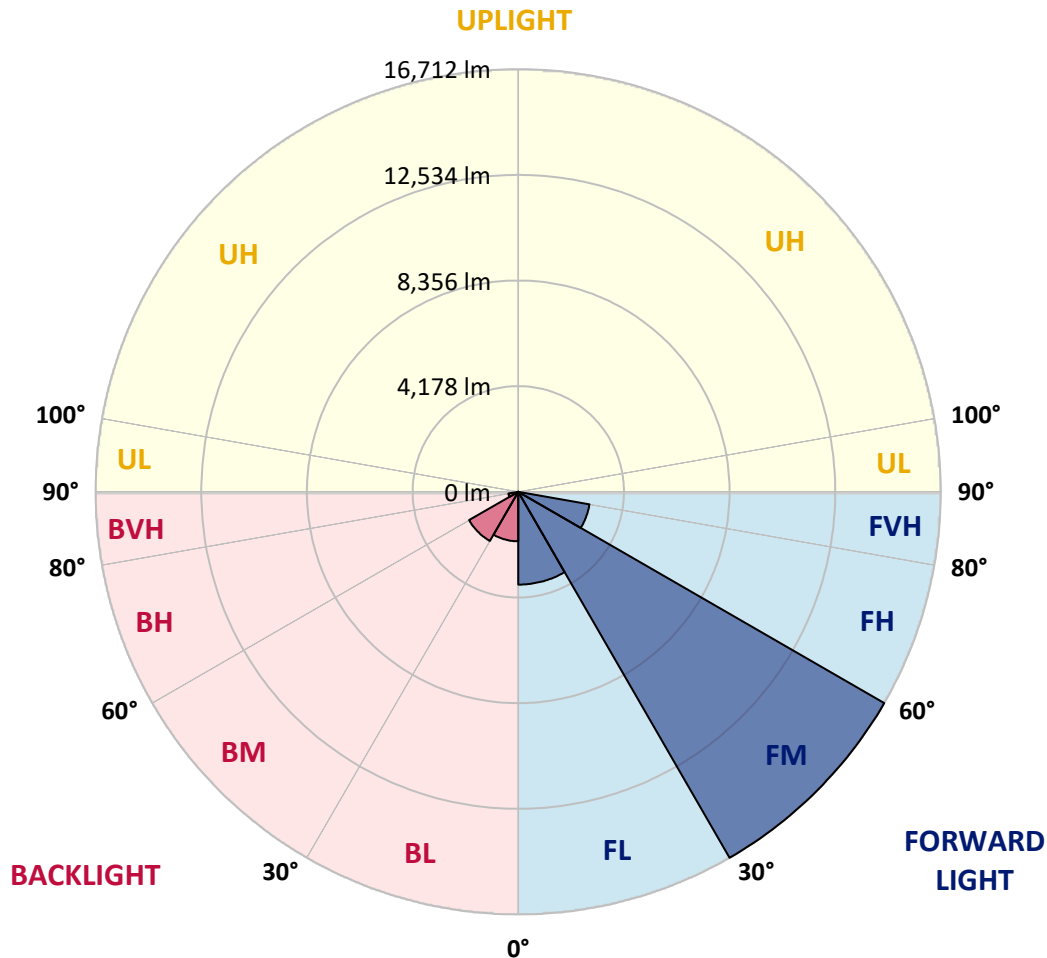
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3669.5 | 13.2 | | | |
| FM (30°-60°) | 16711.7 | 60.0 | | | |
| FH (60°-80°) | 2859.7 | 10.3 | | | G2/5000 |
| FVH (80°-90°) | 16.4 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1956.7 | 7.0 | B3/2500 | | |
| BM (30°-60°) | 2243.8 | 8.1 | B2/2500 | | |
| BH (60°-80°) | 395.0 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 15.4 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10009.8 | 10009.8 | 10009.8 | 10009.8 | 10009.8 | 10009.8 | 10009.8 | 10009.8 | 10009.8 | 10009.8 | 10009.8 |
| 2.5° | 9957.9 | 9869.6 | 9957.9 | 9968.3 | 10030.5 | 10087.7 | 10051.3 | 10134.4 | 10087.7 | 10035.7 | 10020.2 |
| 5° | 9153.1 | 9272.5 | 9277.7 | 9464.6 | 9423.2 | 9765.8 | 9916.3 | 9874.8 | 10129.2 | 10113.6 | 10077.3 |
| 7.5° | 8431.4 | 8384.8 | 8447.1 | 8665.1 | 8940.3 | 9334.8 | 9552.9 | 9547.7 | 9911.2 | 10170.7 | 10144.8 |
| 10° | 7761.8 | 7756.5 | 7886.3 | 8057.7 | 8291.3 | 8706.6 | 9007.8 | 9158.3 | 9724.2 | 10118.8 | 10175.9 |
| 12.5° | 7310.1 | 7289.3 | 7429.5 | 7569.7 | 7938.3 | 8260.1 | 8644.4 | 8717.0 | 9366.0 | 9937.1 | 10030.5 |
| 15° | 7014.1 | 7060.9 | 7071.2 | 7341.2 | 7574.8 | 8000.6 | 8301.7 | 8452.2 | 9199.9 | 9791.8 | 10149.9 |
| 17.5° | 6962.2 | 7024.5 | 7029.7 | 7253.0 | 7502.1 | 7860.4 | 8125.2 | 8327.7 | 9059.7 | 9864.4 | 10155.2 |
| 20° | 7066.1 | 7029.7 | 7060.9 | 7201.1 | 7445.0 | 7787.7 | 8171.9 | 8239.4 | 9013.0 | 9900.8 | 10212.3 |
| 22.5° | 7361.9 | 7351.6 | 7273.7 | 7387.9 | 7559.2 | 7917.5 | 8280.9 | 8384.8 | 9148.0 | 10087.7 | 10259.0 |
| 25° | 7689.1 | 7746.2 | 7673.5 | 7657.9 | 7777.3 | 8130.4 | 8613.2 | 8748.2 | 9599.7 | 10425.1 | 10404.3 |
| 27.5° | 8301.7 | 8244.6 | 8244.6 | 8171.9 | 8140.7 | 8312.1 | 8971.5 | 9194.7 | 10103.3 | 10861.3 | 10570.5 |
| 30° | 8888.4 | 8950.7 | 8903.9 | 8929.9 | 8722.3 | 8706.6 | 9480.3 | 9755.4 | 10996.2 | 11525.8 | 10923.6 |
| 32.5° | 9817.7 | 9734.7 | 9812.5 | 9745.0 | 9469.8 | 9189.5 | 10170.7 | 10456.3 | 12076.2 | 12289.0 | 11453.1 |
| 35° | 10591.3 | 10555.0 | 10887.2 | 10876.8 | 10430.3 | 10155.2 | 10902.8 | 11328.5 | 12829.0 | 13202.8 | 12076.2 |
| 37.5° | 11691.9 | 11624.5 | 12003.4 | 12185.2 | 11785.4 | 11375.2 | 11951.5 | 12444.8 | 13529.8 | 13934.8 | 12714.7 |
| 40° | 12823.7 | 12995.0 | 13503.9 | 13805.0 | 13379.3 | 12834.2 | 13233.9 | 13384.4 | 13997.1 | 14412.5 | 13150.8 |
| 42.5° | 14256.7 | 14505.9 | 15025.1 | 15284.7 | 15248.3 | 14656.4 | 14537.0 | 14531.9 | 14334.6 | 14277.5 | 13472.7 |
| 45° | 15632.5 | 15539.1 | 16338.6 | 16904.5 | 17361.4 | 17190.0 | 15793.5 | 15637.7 | 14869.3 | 14479.9 | 13555.8 |
| 47.5° | 16234.7 | 16203.6 | 16748.8 | 17755.9 | 19313.5 | 19526.3 | 17621.0 | 17018.7 | 15772.7 | 15331.4 | 14007.4 |
| 50° | 15456.0 | 15616.9 | 16156.9 | 17273.1 | 19661.3 | 21286.4 | 19863.8 | 19053.9 | 16826.6 | 16369.7 | 15077.0 |
| 52.5° | 12912.0 | 13021.0 | 13535.1 | 14952.4 | 18477.6 | 22324.8 | 22013.3 | 21546.0 | 18763.1 | 18005.1 | 16940.9 |
| 54° | 10617.2 | 10907.9 | 11188.3 | 12610.9 | 16369.7 | 21748.4 | 23191.8 | 22833.6 | 20024.8 | 19365.5 | 18114.2 |
| 55° | 9246.6 | 9417.9 | 9620.4 | 11037.8 | 14910.8 | 20772.4 | 23056.8 | 23088.0 | 20871.0 | 19791.2 | 18903.3 |
| 57.5° | 6754.6 | 6873.9 | 6666.3 | 7294.5 | 10238.2 | 16868.2 | 21089.1 | 21930.2 | 22013.3 | 20429.7 | 19386.2 |
| 60° | 5160.6 | 5212.6 | 4979.0 | 5077.6 | 6365.1 | 11577.7 | 16312.6 | 17325.0 | 19858.6 | 17854.6 | 16421.7 |
| 62.5° | 4002.9 | 4013.3 | 4008.0 | 4179.4 | 4387.1 | 6811.7 | 10201.9 | 11100.1 | 13690.8 | 12678.4 | 11152.0 |
| 65° | 2949.0 | 2902.2 | 2985.3 | 3504.4 | 3743.3 | 4283.2 | 5373.5 | 6027.7 | 7439.8 | 6282.1 | 4490.9 |
| 67.5° | 1910.6 | 1926.1 | 2009.2 | 2606.3 | 3208.5 | 3286.4 | 3307.1 | 3255.3 | 3260.5 | 1796.4 | 1126.6 |
| 70° | 1147.4 | 1173.4 | 1147.4 | 1474.4 | 2294.8 | 2357.1 | 2154.6 | 2102.7 | 1640.6 | 425.7 | 420.5 |
| 72.5° | 680.1 | 643.8 | 576.3 | 633.4 | 955.3 | 1142.2 | 1028.0 | 1022.8 | 643.8 | 249.2 | 249.2 |
| 75° | 285.5 | 259.6 | 212.9 | 192.1 | 254.4 | 244.0 | 244.0 | 218.1 | 171.3 | 166.1 | 155.8 |
| 77.5° | 57.1 | 57.1 | 41.5 | 46.8 | 62.3 | 72.7 | 88.2 | 88.2 | 103.9 | 103.9 | 98.6 |
| 80° | 0.0 | 5.2 | 15.6 | 31.1 | 46.8 | 67.5 | 77.9 | 77.9 | 88.2 | 88.2 | 72.7 |
| 82.5° | 0.0 | 5.2 | 15.6 | 31.1 | 41.5 | 62.3 | 77.9 | 77.9 | 88.2 | 93.4 | 77.9 |
| 85° | 0.0 | 5.2 | 15.6 | 26.0 | 41.5 | 51.9 | 51.9 | 46.8 | 36.3 | 31.1 | 20.8 |
| 87.5° | 0.0 | 0.0 | 5.2 | 10.3 | 5.2 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 |
| 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-SA8C-840-U-SL2-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10009.8 | 10009.8 | 10009.8 | 10009.8 | 10009.8 | 10009.8 | 10009.8 | 10009.8 | 10009.8 | 10009.8 | 10009.8 |
| 2.5° | 10056.5 | 10051.3 | 9926.7 | 9724.2 | 9677.6 | 9506.2 | 9485.4 | 9381.6 | 9438.7 | 9246.6 | 9225.9 |
| 5° | 9973.4 | 9911.2 | 9760.6 | 9630.8 | 9251.8 | 8981.8 | 8768.9 | 8509.3 | 8358.8 | 8384.8 | 8286.1 |
| 7.5° | 10092.8 | 9932.0 | 9667.1 | 9215.4 | 8753.4 | 8280.9 | 8026.5 | 7496.9 | 7304.8 | 7019.3 | 6977.8 |
| 10° | 9968.3 | 9848.9 | 9438.7 | 8691.1 | 8052.5 | 7372.4 | 6775.3 | 6188.7 | 5742.1 | 5550.0 | 5508.5 |
| 12.5° | 9957.9 | 9750.2 | 9064.9 | 8234.2 | 7310.1 | 6334.0 | 5467.0 | 4734.9 | 4293.6 | 4044.5 | 3987.3 |
| 15° | 9796.9 | 9547.7 | 8644.4 | 7528.1 | 6250.9 | 5036.1 | 4091.1 | 3385.0 | 3047.6 | 2902.2 | 2943.8 |
| 17.5° | 9812.5 | 9438.7 | 8223.8 | 6780.5 | 5207.4 | 3696.5 | 2793.2 | 2429.7 | 2341.5 | 2377.8 | 2377.8 |
| 20° | 9796.9 | 9194.7 | 7715.0 | 5918.6 | 3987.3 | 2564.7 | 2050.8 | 1920.9 | 1978.1 | 2092.3 | 2066.3 |
| 22.5° | 9713.9 | 9080.4 | 7247.7 | 5010.1 | 2933.4 | 1900.2 | 1645.8 | 1651.0 | 1739.3 | 1879.5 | 1910.6 |
| 25° | 9776.2 | 8826.0 | 6655.9 | 4091.1 | 2139.0 | 1516.0 | 1427.8 | 1464.1 | 1557.5 | 1661.4 | 1682.2 |
| 27.5° | 9729.4 | 8644.4 | 6038.0 | 3177.4 | 1562.7 | 1303.1 | 1297.9 | 1339.5 | 1381.0 | 1458.9 | 1458.9 |
| 30° | 9781.3 | 8478.2 | 5430.6 | 2362.3 | 1287.6 | 1194.1 | 1173.4 | 1204.5 | 1246.0 | 1261.6 | 1256.5 |
| 32.5° | 9973.4 | 8353.6 | 4729.7 | 1765.2 | 1137.0 | 1090.3 | 1090.3 | 1090.3 | 1085.1 | 1105.8 | 1111.0 |
| 35° | 10394.0 | 8374.3 | 4111.9 | 1365.4 | 1038.4 | 1002.1 | 986.4 | 965.6 | 955.3 | 965.6 | 970.9 |
| 37.5° | 10850.8 | 8364.0 | 3473.3 | 1162.9 | 965.6 | 934.5 | 898.2 | 867.1 | 861.9 | 872.2 | 856.6 |
| 40° | 11053.3 | 8462.6 | 2881.4 | 1043.5 | 898.2 | 861.9 | 804.8 | 778.8 | 784.0 | 794.3 | 784.0 |
| 42.5° | 11328.5 | 8493.8 | 2497.3 | 950.1 | 835.9 | 778.8 | 742.4 | 711.3 | 706.1 | 721.7 | 716.4 |
| 45° | 11323.3 | 8317.2 | 2092.3 | 898.2 | 778.8 | 716.4 | 669.8 | 643.8 | 643.8 | 654.1 | 659.3 |
| 47.5° | 11655.6 | 8291.3 | 1796.4 | 851.4 | 737.2 | 674.9 | 617.8 | 597.0 | 591.9 | 591.9 | 581.5 |
| 50° | 12429.1 | 8654.7 | 1568.0 | 799.5 | 685.3 | 628.2 | 581.5 | 555.6 | 534.8 | 524.4 | 519.1 |
| 52.5° | 13940.0 | 9786.5 | 1391.4 | 737.2 | 628.2 | 581.5 | 539.9 | 519.1 | 493.2 | 467.3 | 462.0 |
| 54° | 15404.1 | 10954.7 | 1381.0 | 685.3 | 581.5 | 550.4 | 514.0 | 503.6 | 472.5 | 436.1 | 425.7 |
| 55° | 16063.4 | 11634.8 | 1417.3 | 643.8 | 550.4 | 529.6 | 498.4 | 488.0 | 456.9 | 415.4 | 410.2 |
| 57.5° | 16608.6 | 11899.6 | 1396.6 | 534.8 | 498.4 | 493.2 | 467.3 | 451.7 | 415.4 | 358.3 | 347.8 |
| 60° | 13368.9 | 8997.4 | 1002.1 | 472.5 | 456.9 | 446.5 | 425.7 | 415.4 | 368.6 | 306.3 | 301.2 |
| 62.5° | 8447.1 | 5176.2 | 638.6 | 415.4 | 399.7 | 384.2 | 358.3 | 347.8 | 306.3 | 244.0 | 228.4 |
| 65° | 3597.9 | 2144.2 | 430.9 | 368.6 | 342.6 | 316.7 | 295.9 | 280.4 | 244.0 | 181.7 | 176.5 |
| 67.5° | 934.5 | 763.2 | 358.3 | 321.9 | 285.5 | 249.2 | 233.6 | 207.6 | 166.1 | 124.6 | 119.4 |
| 70° | 420.5 | 384.2 | 301.2 | 270.0 | 228.4 | 192.1 | 171.3 | 145.4 | 109.0 | 83.1 | 77.9 |
| 72.5° | 249.2 | 244.0 | 228.4 | 202.5 | 171.3 | 145.4 | 124.6 | 98.6 | 72.7 | 46.8 | 46.8 |
| 75° | 155.8 | 150.5 | 155.8 | 140.2 | 119.4 | 109.0 | 93.4 | 67.5 | 41.5 | 20.8 | 20.8 |
| 77.5° | 93.4 | 93.4 | 93.4 | 88.2 | 83.1 | 83.1 | 67.5 | 41.5 | 20.8 | 5.2 | 5.2 |
| 80° | 72.7 | 72.7 | 77.9 | 72.7 | 72.7 | 72.7 | 57.1 | 31.1 | 10.3 | 0.0 | 0.0 |
| 82.5° | 72.7 | 77.9 | 88.2 | 83.1 | 72.7 | 62.3 | 51.9 | 31.1 | 10.3 | 0.0 | 0.0 |
| 85° | 20.8 | 15.6 | 26.0 | 36.3 | 51.9 | 46.8 | 36.3 | 26.0 | 10.3 | 0.0 | 0.0 |
| 87.5° | 10.3 | 10.3 | 10.3 | 10.3 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 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 |

(END OF REPORT)