

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: P654038

Luminaire Tested: **GLAN-SA8A-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P654038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8A-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18162.2 lumens
Efficiency: N/A
Efficacy: 74.4 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

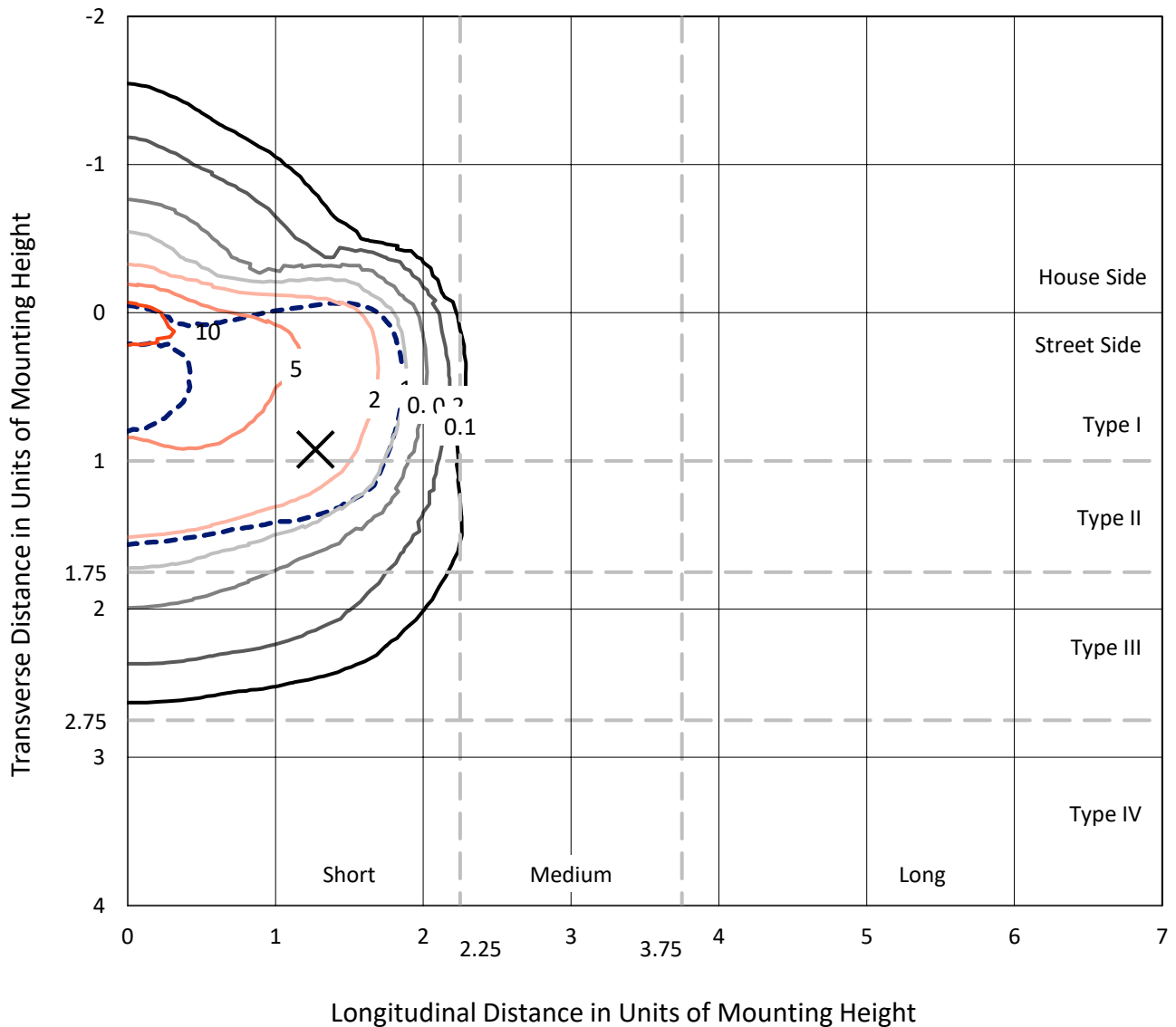
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

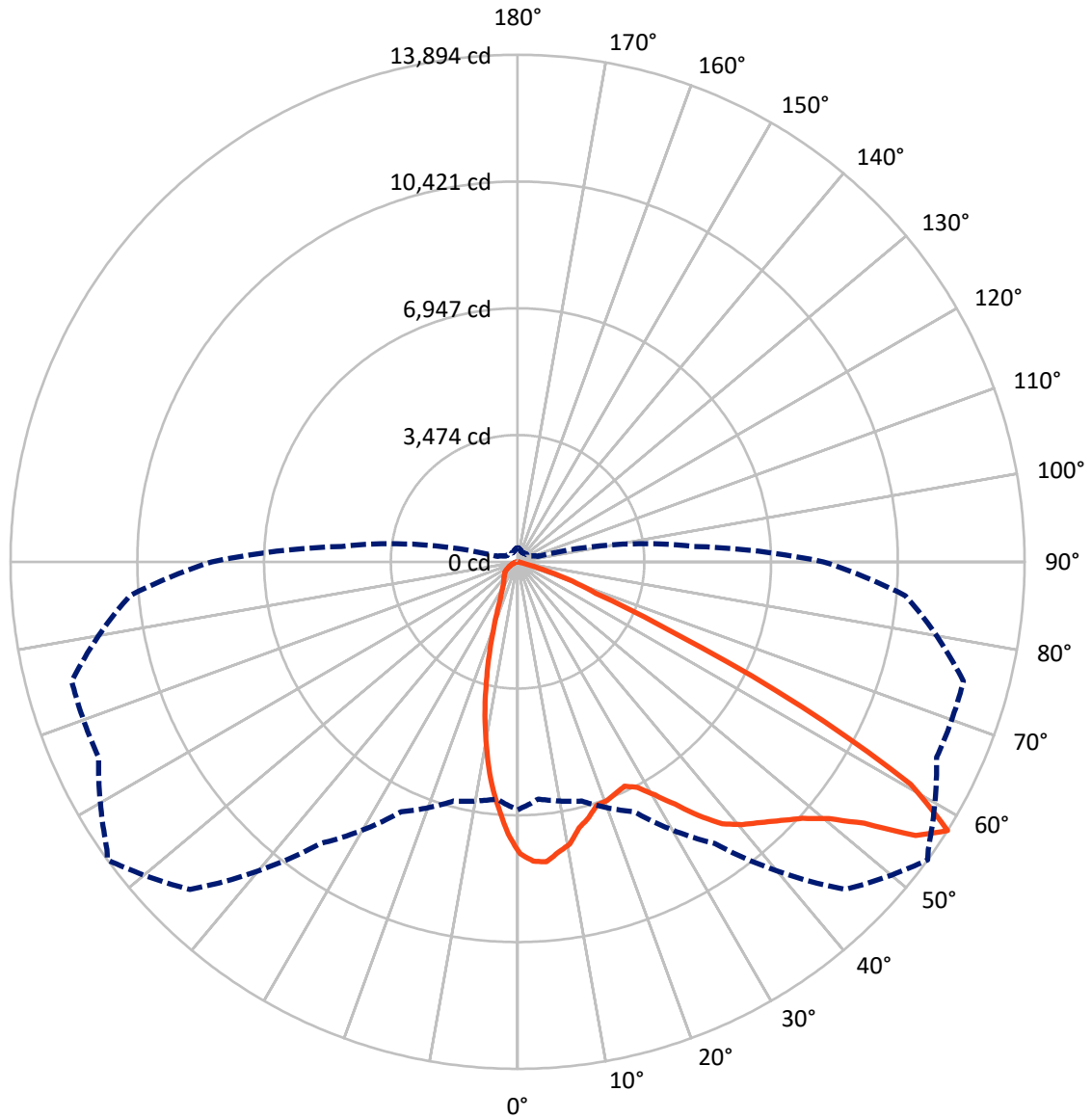
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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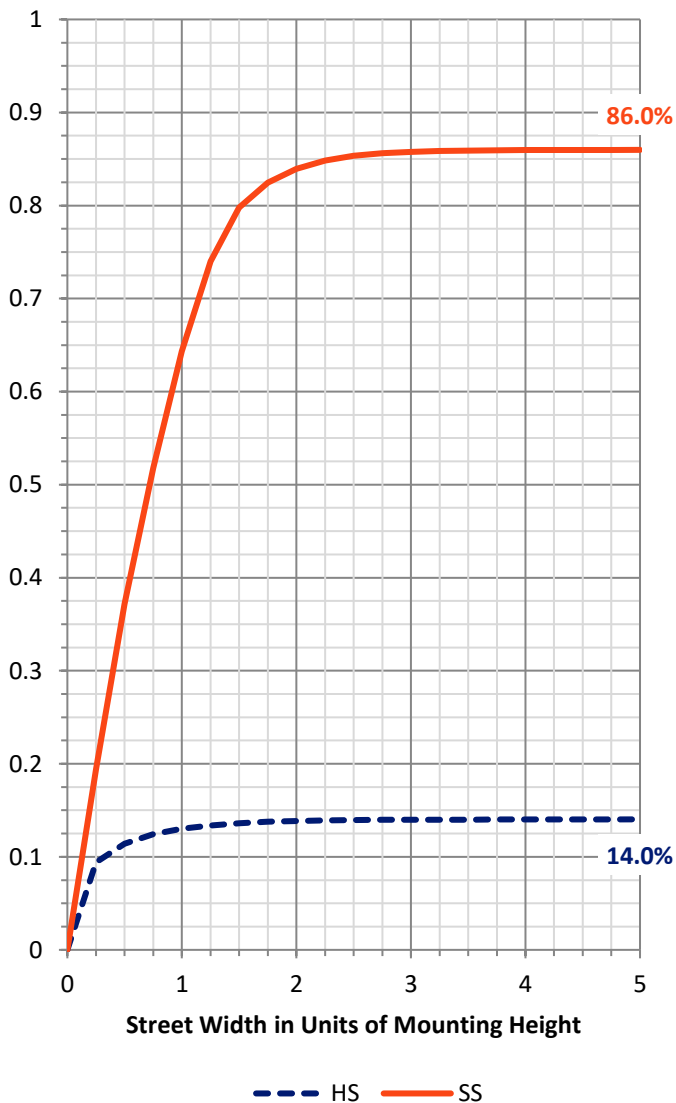
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2566.6 | 0.0 | 2566.6 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 15595.6 | 0.0 | 15595.6 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 18162.2 | 0.0 | 18162.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 669.5 | 3.7 |
| 10°-20° | 1429.4 | 7.9 |
| 20°-30° | 1894.2 | 10.4 |
| 30°-40° | 2752.9 | 15.2 |
| 40°-50° | 4082.1 | 22.5 |
| 50°-60° | 5104.5 | 28.1 |
| 60°-70° | 2013.5 | 11.1 |
| 70°-80° | 200.5 | 1.1 |
| 80°-90° | 15.6 | 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° | 18162.2 | 100.0 |
| 0°-180° | 18162.2 | 100.0 |

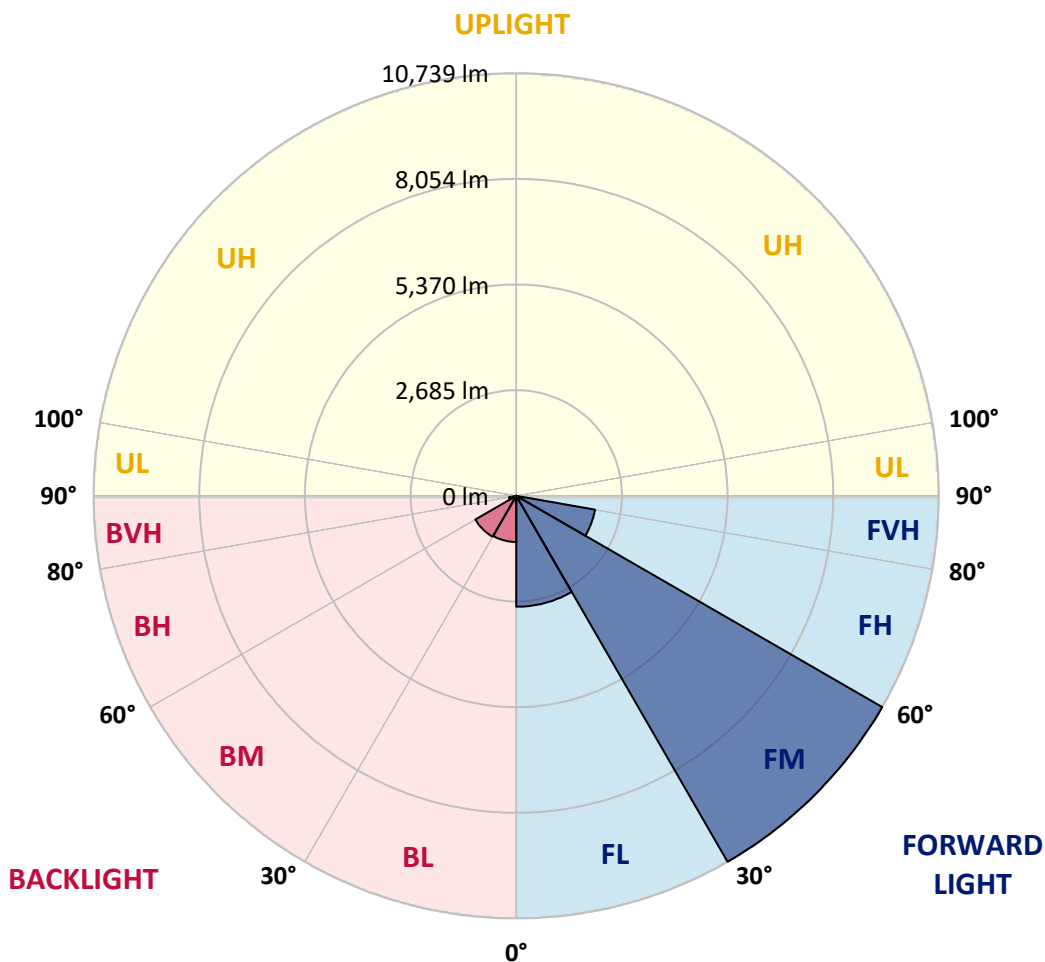


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2819.3 | 15.5 | | | |
| FM (30°-60°) | 10739.3 | 59.1 | | | |
| FH (60°-80°) | 2029.9 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 7.1 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1173.9 | 6.5 | B3/2500 | | |
| BM (30°-60°) | 1200.2 | 6.6 | B2/2500 | | |
| BH (60°-80°) | 184.0 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 8.5 | 0.0 | | | G0/10 |
| 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° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8000.7 | 8000.7 | 8000.7 | 8000.7 | 8000.7 | 8000.7 | 8000.7 | 8000.7 | 8000.7 | 8000.7 | 8000.7 |
| 2.5° | 8466.8 | 8379.0 | 8385.7 | 8355.3 | 8314.8 | 8345.2 | 8213.5 | 8243.9 | 8240.5 | 8061.5 | 7943.3 |
| 5° | 8254.0 | 8348.6 | 8250.6 | 8331.7 | 8254.0 | 8338.4 | 8257.4 | 8196.6 | 8098.7 | 7967.0 | 7747.4 |
| 7.5° | 7892.6 | 7801.5 | 7828.4 | 7929.8 | 7946.7 | 8135.8 | 8034.5 | 8112.1 | 8071.7 | 7811.5 | 7511.0 |
| 10° | 7166.5 | 7146.2 | 7281.4 | 7416.4 | 7582.0 | 7784.5 | 7862.3 | 7818.4 | 7787.9 | 7690.0 | 7288.1 |
| 12.5° | 6609.3 | 6666.7 | 6663.3 | 6886.2 | 7166.5 | 7281.4 | 7484.0 | 7477.2 | 7646.1 | 7463.7 | 7078.7 |
| 15° | 6079.1 | 6109.4 | 6251.3 | 6389.7 | 6700.5 | 7028.1 | 7278.0 | 7311.7 | 7514.4 | 7386.1 | 6916.6 |
| 17.5° | 5754.9 | 5710.9 | 5822.4 | 5987.8 | 6305.3 | 6734.2 | 7011.2 | 7092.2 | 7369.2 | 7342.2 | 6730.9 |
| 20° | 5434.0 | 5434.0 | 5525.2 | 5721.1 | 6011.5 | 6494.5 | 6987.5 | 6963.9 | 7369.2 | 7291.5 | 6531.6 |
| 22.5° | 5325.9 | 5380.0 | 5403.6 | 5552.2 | 5896.7 | 6312.1 | 6886.2 | 6930.1 | 7426.6 | 7267.8 | 6443.8 |
| 25° | 5474.5 | 5403.6 | 5410.3 | 5528.6 | 5852.8 | 6224.2 | 6811.9 | 6909.8 | 7531.2 | 7386.1 | 6372.8 |
| 27.5° | 5498.2 | 5569.1 | 5589.4 | 5670.4 | 5886.6 | 6251.3 | 6997.6 | 7196.9 | 7791.4 | 7663.0 | 6393.1 |
| 30° | 5704.2 | 5775.1 | 5771.7 | 5910.2 | 6058.8 | 6470.8 | 7413.1 | 7453.6 | 8328.3 | 8010.9 | 6518.1 |
| 32.5° | 5954.1 | 6028.4 | 6052.0 | 6214.1 | 6332.3 | 6872.7 | 7919.7 | 8024.3 | 8845.0 | 8557.9 | 6845.7 |
| 35° | 6264.8 | 6237.8 | 6345.8 | 6508.0 | 6761.2 | 7460.3 | 8537.7 | 8713.3 | 9402.3 | 9267.1 | 7183.4 |
| 37.5° | 6653.2 | 6619.4 | 6724.1 | 6987.5 | 7332.0 | 8156.1 | 9108.5 | 9223.2 | 9807.6 | 9925.7 | 7808.2 |
| 40° | 6926.7 | 6940.3 | 7257.7 | 7612.3 | 7977.1 | 8818.0 | 9469.8 | 9581.3 | 10091.2 | 10540.4 | 8281.0 |
| 42.5° | 7382.6 | 7467.1 | 7848.7 | 8281.0 | 8662.6 | 9314.5 | 9763.7 | 9871.7 | 10222.9 | 11033.5 | 8919.3 |
| 45° | 8044.6 | 8007.5 | 8429.6 | 8912.6 | 9334.8 | 9831.2 | 10111.5 | 10074.3 | 10300.7 | 11523.2 | 9321.2 |
| 47.5° | 8895.7 | 8902.4 | 9182.7 | 9594.8 | 10033.8 | 10280.4 | 10499.9 | 10368.2 | 10462.7 | 12039.9 | 9858.2 |
| 50° | 9476.6 | 9527.3 | 9753.5 | 10175.7 | 10395.2 | 10773.5 | 11053.8 | 10972.7 | 10942.3 | 12350.6 | 10195.9 |
| 52.5° | 9625.2 | 9777.1 | 9898.7 | 10425.5 | 10938.9 | 11536.7 | 11894.7 | 12066.9 | 11526.6 | 12455.3 | 10624.9 |
| 55° | 8503.9 | 8639.0 | 9067.9 | 9790.7 | 11144.9 | 12745.8 | 13238.9 | 13242.2 | 12289.8 | 12921.4 | 10925.4 |
| 57.5° | 6798.4 | 6524.8 | 6788.3 | 7554.9 | 9422.6 | 12695.1 | 13894.0 | 13735.3 | 12671.4 | 12647.8 | 10665.4 |
| 60° | 4701.1 | 4633.6 | 4650.5 | 4954.4 | 6521.5 | 10098.0 | 12381.0 | 12587.0 | 11668.4 | 10962.5 | 8443.1 |
| 62.5° | 3725.1 | 3667.7 | 3593.4 | 3559.6 | 4049.3 | 6291.9 | 8733.5 | 9024.0 | 8159.5 | 7109.1 | 5005.1 |
| 65° | 2917.9 | 2884.2 | 2894.3 | 3029.4 | 3026.0 | 3569.8 | 4775.5 | 4657.2 | 3728.5 | 2755.9 | 1573.8 |
| 67.5° | 1968.9 | 2019.6 | 2060.1 | 2468.8 | 2678.2 | 2485.7 | 2306.7 | 2239.1 | 1212.5 | 510.0 | 347.8 |
| 70° | 1107.8 | 1114.5 | 1158.4 | 1543.4 | 2033.1 | 1928.4 | 1590.7 | 1590.7 | 604.5 | 185.8 | 199.2 |
| 72.5° | 604.5 | 584.2 | 543.7 | 665.3 | 905.1 | 918.6 | 709.2 | 618.1 | 179.0 | 121.6 | 111.4 |
| 75° | 293.8 | 290.5 | 249.9 | 206.0 | 195.9 | 162.1 | 125.0 | 114.8 | 81.1 | 77.7 | 67.5 |
| 77.5° | 60.8 | 57.4 | 30.4 | 30.4 | 33.8 | 37.2 | 47.3 | 47.3 | 57.4 | 57.4 | 47.3 |
| 80° | 0.0 | 0.0 | 3.4 | 13.5 | 23.6 | 33.8 | 40.5 | 40.5 | 47.3 | 47.3 | 37.2 |
| 82.5° | 0.0 | 0.0 | 3.4 | 10.1 | 20.3 | 30.4 | 37.2 | 40.5 | 47.3 | 50.6 | 40.5 |
| 85° | 0.0 | 0.0 | 0.0 | 6.7 | 16.9 | 23.6 | 20.3 | 20.3 | 16.9 | 13.5 | 6.7 |
| 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: GLAN-SA8A-840-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8000.7 | 8000.7 | 8000.7 | 8000.7 | 8000.7 | 8000.7 | 8000.7 | 8000.7 | 8000.7 | 8000.7 | 8000.7 |
| 2.5° | 7882.5 | 7875.7 | 7720.4 | 7632.6 | 7473.9 | 7335.4 | 7223.9 | 7142.9 | 7142.9 | 7092.2 | 7045.0 |
| 5° | 7659.6 | 7602.2 | 7271.2 | 7058.4 | 6757.9 | 6535.0 | 6383.0 | 6264.8 | 6079.1 | 6129.7 | 5930.5 |
| 7.5° | 7382.6 | 7237.5 | 6798.4 | 6474.2 | 6058.8 | 5741.3 | 5417.1 | 5130.0 | 4853.1 | 4728.2 | 4795.7 |
| 10° | 7085.5 | 6832.2 | 6241.1 | 5727.8 | 5211.1 | 4630.2 | 4251.9 | 3792.7 | 3509.0 | 3492.1 | 3417.7 |
| 12.5° | 6771.4 | 6484.4 | 5765.0 | 5055.8 | 4376.9 | 3677.9 | 3100.3 | 2671.4 | 2478.9 | 2266.2 | 2306.7 |
| 15° | 6535.0 | 6109.4 | 5234.7 | 4380.3 | 3478.5 | 2772.7 | 2191.8 | 1860.9 | 1678.5 | 1627.8 | 1610.9 |
| 17.5° | 6278.3 | 5822.4 | 4694.4 | 3661.0 | 2728.8 | 1995.9 | 1577.2 | 1418.4 | 1347.5 | 1347.5 | 1337.4 |
| 20° | 6011.5 | 5498.2 | 4157.4 | 2992.3 | 2046.6 | 1489.3 | 1263.1 | 1212.5 | 1209.0 | 1205.7 | 1205.7 |
| 22.5° | 5835.9 | 5126.7 | 3671.0 | 2377.6 | 1543.4 | 1192.2 | 1097.6 | 1077.3 | 1090.9 | 1131.4 | 1131.4 |
| 25° | 5650.2 | 4768.6 | 3134.1 | 1833.9 | 1195.6 | 1023.3 | 969.3 | 982.8 | 1016.5 | 1053.7 | 1040.2 |
| 27.5° | 5461.0 | 4535.7 | 2627.5 | 1438.7 | 979.4 | 895.0 | 874.7 | 905.1 | 942.3 | 976.1 | 965.9 |
| 30° | 5417.1 | 4285.7 | 2147.9 | 1090.9 | 840.9 | 780.1 | 793.7 | 820.6 | 857.8 | 871.4 | 884.8 |
| 32.5° | 5484.7 | 4089.9 | 1759.5 | 895.0 | 732.8 | 715.9 | 715.9 | 729.5 | 753.1 | 783.6 | 773.4 |
| 35° | 5677.2 | 3978.4 | 1391.4 | 776.7 | 672.0 | 655.2 | 651.8 | 665.3 | 678.9 | 688.9 | 678.9 |
| 37.5° | 5971.0 | 3890.6 | 1138.1 | 688.9 | 631.5 | 604.5 | 597.8 | 594.4 | 607.9 | 611.3 | 618.1 |
| 40° | 6345.8 | 3937.9 | 965.9 | 635.0 | 591.1 | 560.6 | 540.3 | 540.3 | 540.3 | 550.5 | 553.9 |
| 42.5° | 6751.1 | 4002.1 | 834.2 | 604.5 | 553.9 | 516.7 | 496.4 | 489.7 | 496.4 | 510.0 | 506.6 |
| 45° | 7176.7 | 4127.0 | 749.8 | 557.2 | 520.1 | 472.8 | 445.8 | 439.0 | 455.9 | 483.0 | 479.5 |
| 47.5° | 7575.1 | 4306.0 | 685.6 | 526.9 | 486.4 | 442.5 | 408.6 | 401.9 | 432.3 | 469.4 | 472.8 |
| 50° | 7973.7 | 4616.7 | 662.0 | 503.2 | 462.7 | 412.0 | 381.6 | 374.8 | 408.6 | 455.9 | 466.1 |
| 52.5° | 8433.0 | 4951.1 | 645.0 | 472.8 | 435.6 | 388.4 | 354.6 | 347.8 | 385.0 | 445.8 | 449.2 |
| 55° | 8733.5 | 5234.7 | 631.5 | 418.8 | 385.0 | 351.2 | 324.2 | 320.8 | 361.4 | 415.4 | 428.9 |
| 57.5° | 8382.3 | 4839.6 | 584.2 | 364.7 | 327.6 | 310.7 | 287.0 | 287.0 | 320.8 | 371.5 | 381.6 |
| 60° | 6356.0 | 3184.8 | 415.4 | 293.8 | 276.9 | 266.8 | 256.7 | 256.7 | 283.7 | 320.8 | 324.2 |
| 62.5° | 3721.8 | 1715.6 | 266.8 | 236.4 | 236.4 | 226.3 | 209.4 | 209.4 | 236.4 | 256.7 | 260.0 |
| 65° | 1104.4 | 550.5 | 216.1 | 202.6 | 199.2 | 182.4 | 165.5 | 162.1 | 182.4 | 192.5 | 189.1 |
| 67.5° | 317.5 | 253.3 | 179.0 | 168.9 | 165.5 | 138.4 | 128.3 | 125.0 | 128.3 | 121.6 | 118.2 |
| 70° | 189.1 | 172.2 | 138.4 | 141.9 | 125.0 | 101.3 | 91.2 | 87.8 | 81.1 | 70.9 | 64.2 |
| 72.5° | 104.7 | 104.7 | 101.3 | 108.1 | 87.8 | 67.5 | 57.4 | 47.3 | 37.2 | 30.4 | 27.0 |
| 75° | 64.2 | 67.5 | 70.9 | 74.3 | 57.4 | 43.9 | 37.2 | 23.6 | 13.5 | 6.7 | 6.7 |
| 77.5° | 43.9 | 47.3 | 50.6 | 54.1 | 47.3 | 40.5 | 30.4 | 16.9 | 3.4 | 0.0 | 0.0 |
| 80° | 33.8 | 37.2 | 43.9 | 47.3 | 50.6 | 54.1 | 40.5 | 16.9 | 3.4 | 0.0 | 0.0 |
| 82.5° | 37.2 | 40.5 | 50.6 | 47.3 | 47.3 | 47.3 | 37.2 | 16.9 | 3.4 | 0.0 | 0.0 |
| 85° | 6.7 | 10.1 | 16.9 | 16.9 | 23.6 | 30.4 | 23.6 | 6.7 | 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 |

(END OF REPORT)