

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: P649092

Luminaire Tested: **GLAN-SA8C-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8C-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36564.5 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

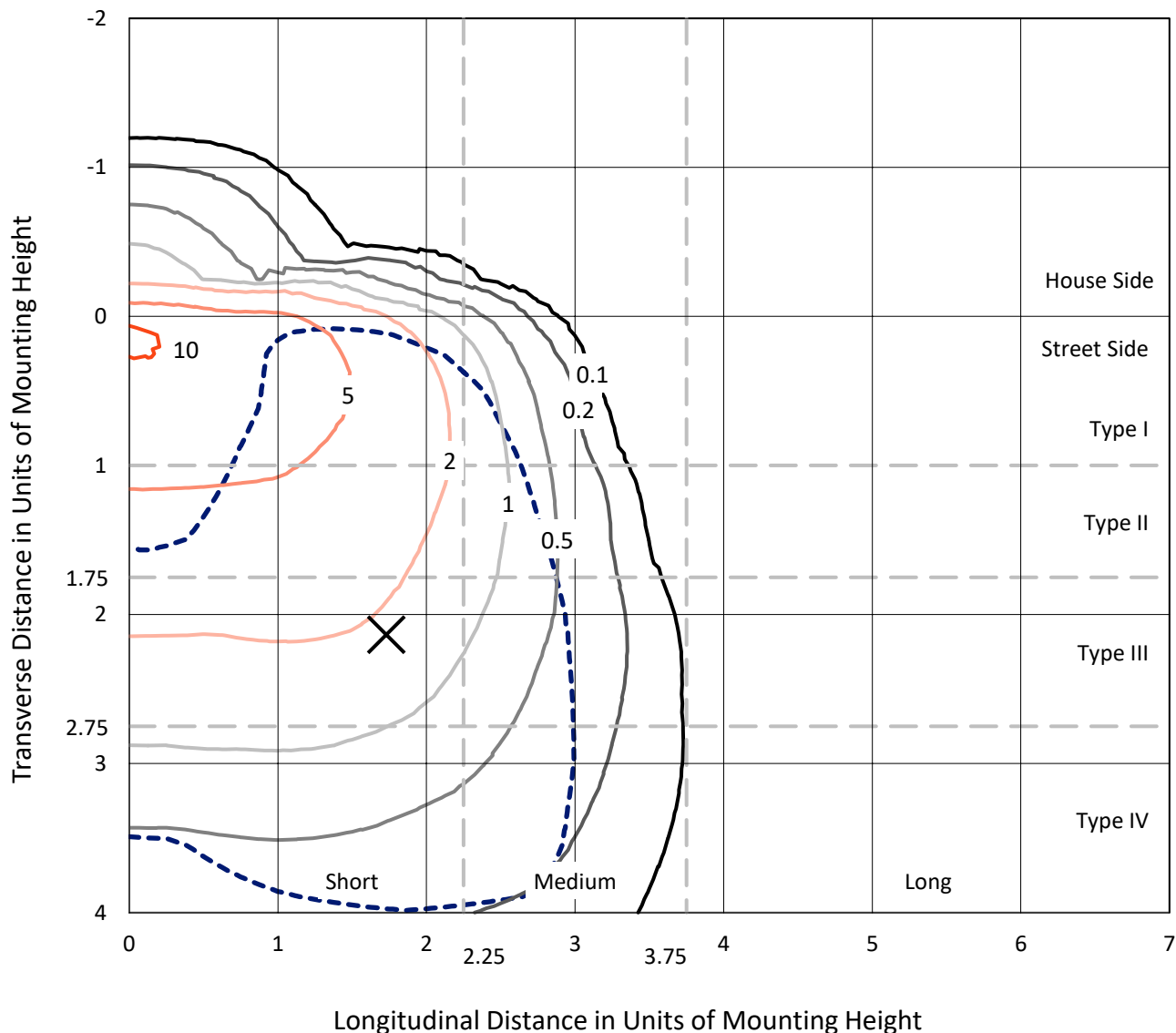
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

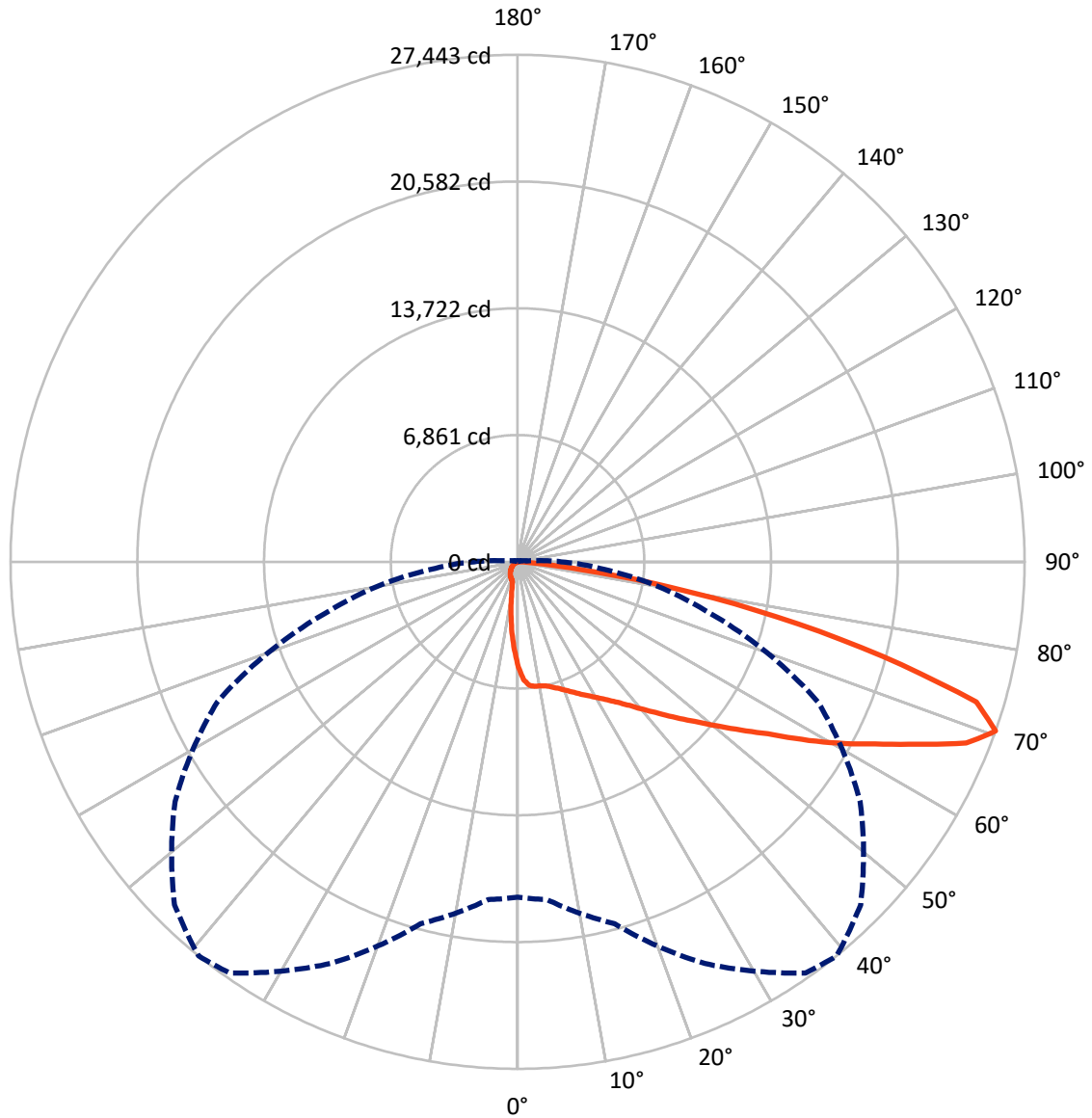
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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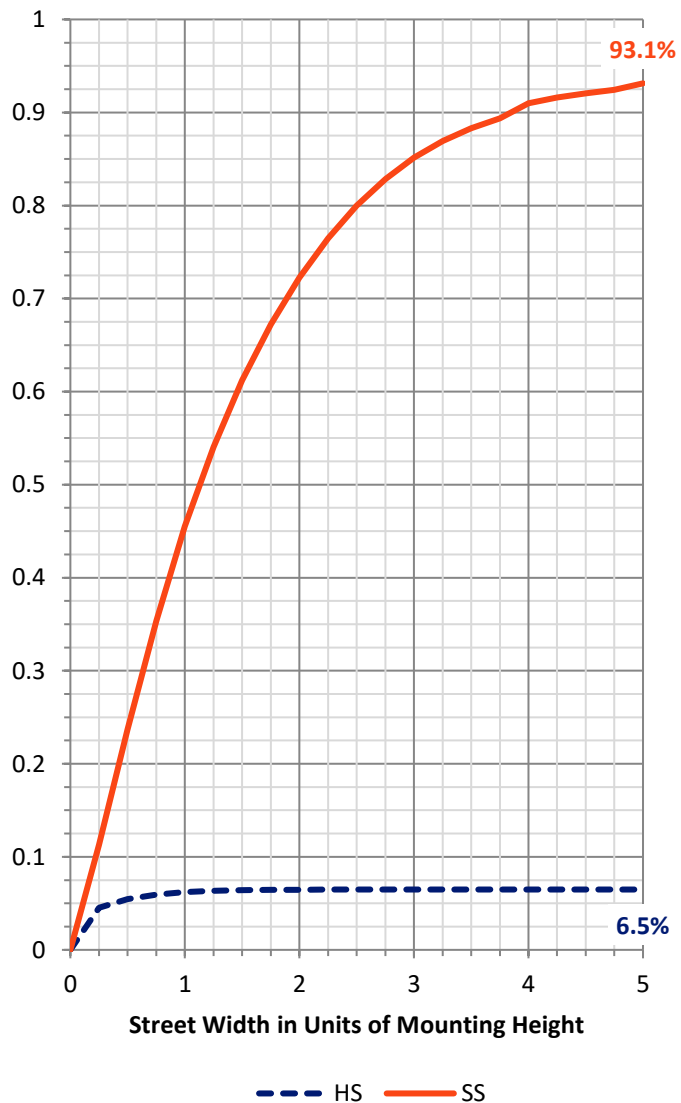
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2384.2 | 0.0 | 2384.2 |
| | % Fixture | 6.5 | 0.0 | 6.5 |
| Street Side | Lumens | 34180.4 | 0.0 | 34180.4 |
| | % Fixture | 93.5 | 0.0 | 93.5 |
| Total | Lumens | 36564.5 | 0.0 | 36564.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 486.6 | 1.3 |
| 10°-20° | 1264.6 | 3.5 |
| 20°-30° | 2118.5 | 5.8 |
| 30°-40° | 3285.6 | 9.0 |
| 40°-50° | 5206.7 | 14.2 |
| 50°-60° | 7632.3 | 20.9 |
| 60°-70° | 9782.7 | 26.8 |
| 70°-80° | 6147.1 | 16.8 |
| 80°-90° | 640.4 | 1.8 |
| 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° | 36564.5 | 100.0 |
| 0°-180° | 36564.5 | 100.0 |

Coefficient of Utilization



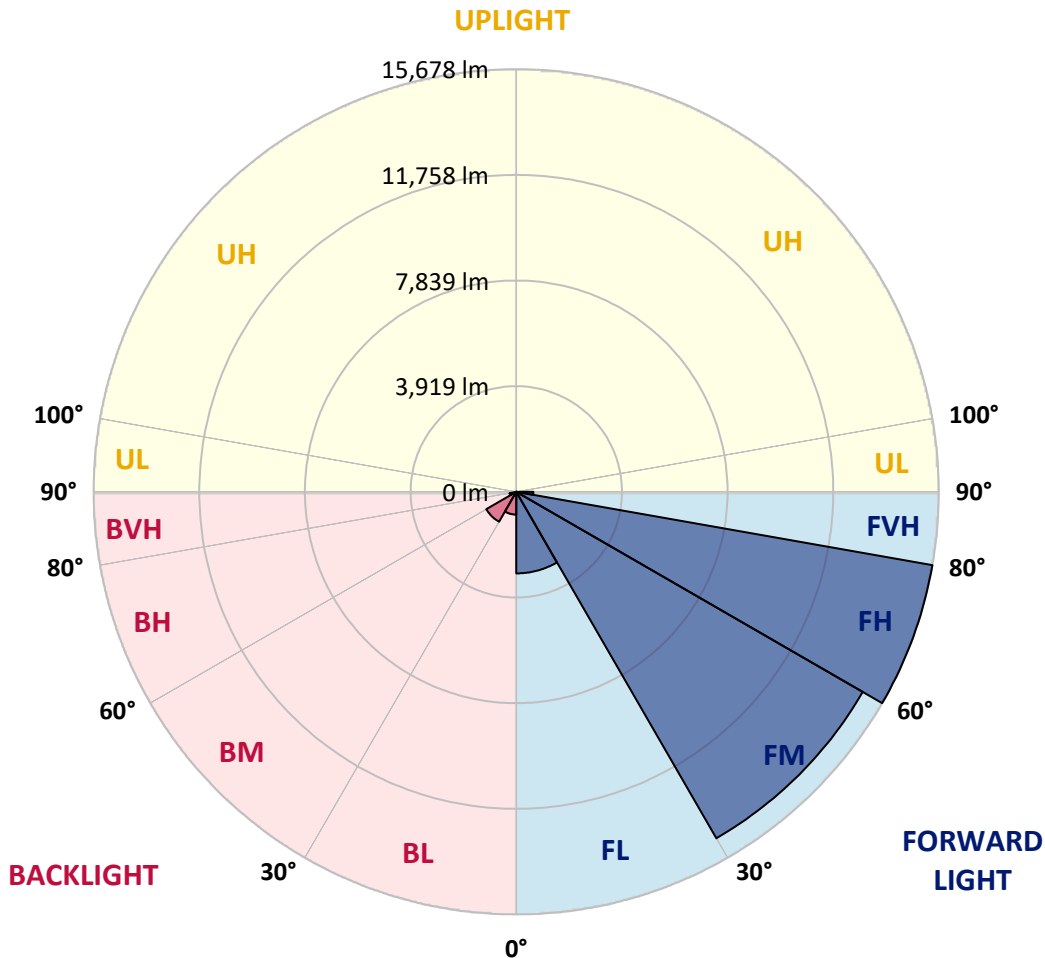
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 3025.5 | 8.3 | | | |
| FM (30°-60°) | 14841.5 | 40.6 | | | |
| FH (60°-80°) | 15677.7 | 42.9 | | | G5 |
| FVH (80°-90°) | 635.7 | 1.7 | | | G4/750 |
| BL (0°-30°) | 844.2 | 2.3 | B2/1000 | | |
| BM (30°-60°) | 1283.1 | 3.5 | B2/2500 | | |
| BH (60°-80°) | 252.1 | 0.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.7 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5705.3 | 5705.3 | 5705.3 | 5705.3 | 5705.3 | 5705.3 | 5705.3 | 5705.3 | 5705.3 | 5705.3 | 5705.3 |
| 2.5° | 6592.3 | 6570.2 | 6540.7 | 6506.3 | 6408.1 | 6390.8 | 6331.9 | 6206.5 | 6056.7 | 5933.8 | 5764.3 |
| 5° | 6904.3 | 6916.6 | 6894.5 | 6833.1 | 6761.8 | 6720.1 | 6646.4 | 6452.2 | 6258.1 | 6010.0 | 5732.3 |
| 7.5° | 6975.6 | 7000.2 | 6973.2 | 6914.2 | 6845.4 | 6801.1 | 6742.2 | 6575.1 | 6349.1 | 6066.5 | 5685.7 |
| 10° | 6968.2 | 6997.7 | 6980.5 | 6926.5 | 6870.0 | 6828.2 | 6764.3 | 6631.6 | 6449.8 | 6152.5 | 5700.4 |
| 12.5° | 6955.9 | 6995.3 | 6992.8 | 6965.8 | 6919.1 | 6887.2 | 6847.9 | 6729.9 | 6560.4 | 6277.8 | 5781.5 |
| 15° | 6921.6 | 6970.7 | 7015.0 | 7037.1 | 7039.5 | 7039.5 | 6990.4 | 6865.0 | 6702.9 | 6442.4 | 5887.1 |
| 17.5° | 6936.3 | 6992.8 | 7103.4 | 7167.3 | 7211.5 | 7206.6 | 7155.0 | 7019.8 | 6840.5 | 6612.0 | 5997.7 |
| 20° | 7027.2 | 7103.4 | 7258.2 | 7386.0 | 7430.2 | 7415.5 | 7346.7 | 7189.4 | 6985.5 | 6757.0 | 6105.8 |
| 22.5° | 7250.8 | 7319.6 | 7513.7 | 7663.6 | 7695.6 | 7656.3 | 7558.0 | 7344.2 | 7159.9 | 6914.2 | 6236.0 |
| 25° | 7585.0 | 7666.0 | 7845.4 | 7958.5 | 7958.5 | 7936.3 | 7798.8 | 7548.1 | 7356.4 | 7132.9 | 6405.6 |
| 27.5° | 7990.4 | 8059.2 | 8236.1 | 8336.8 | 8277.9 | 8214.0 | 8076.4 | 7774.2 | 7589.9 | 7408.0 | 6609.5 |
| 30° | 8400.7 | 8445.0 | 8631.7 | 8676.0 | 8614.5 | 8533.4 | 8386.0 | 8083.8 | 7921.6 | 7781.5 | 6904.3 |
| 32.5° | 8788.9 | 8884.8 | 9039.6 | 9029.7 | 8946.2 | 8906.9 | 8771.7 | 8449.9 | 8359.0 | 8344.2 | 7317.1 |
| 35° | 9177.2 | 9250.9 | 9388.5 | 9422.9 | 9349.2 | 9341.8 | 9243.5 | 9005.2 | 9007.6 | 9103.5 | 7960.9 |
| 37.5° | 9511.3 | 9577.7 | 9739.8 | 9816.0 | 9830.7 | 9867.6 | 9828.3 | 9671.1 | 9894.6 | 10157.5 | 8813.5 |
| 40° | 9791.4 | 9884.8 | 10091.2 | 10223.9 | 10376.2 | 10511.4 | 10518.7 | 10553.1 | 11002.8 | 11454.9 | 9926.6 |
| 42.5° | 10010.1 | 10140.3 | 10440.1 | 10685.8 | 11034.7 | 11206.7 | 11344.3 | 11533.5 | 12290.3 | 12965.9 | 11238.6 |
| 45° | 10295.1 | 10445.0 | 10818.5 | 11204.3 | 11749.7 | 12032.3 | 12224.0 | 12730.1 | 13803.8 | 14725.3 | 12585.2 |
| 47.5° | 10766.9 | 10845.5 | 11226.3 | 11789.0 | 12506.5 | 12909.5 | 13283.0 | 14049.5 | 15427.9 | 16253.5 | 13705.6 |
| 50° | 11373.8 | 11425.4 | 11712.9 | 12494.2 | 13423.0 | 13953.7 | 14634.3 | 15536.1 | 17113.5 | 17521.3 | 14339.5 |
| 52.5° | 12044.6 | 12061.8 | 12278.0 | 13270.7 | 14450.0 | 15118.4 | 15880.0 | 16993.1 | 18487.0 | 18425.6 | 14759.6 |
| 55° | 12823.4 | 12798.9 | 12983.2 | 14113.4 | 15666.3 | 16430.5 | 17317.5 | 18484.5 | 19678.7 | 19066.9 | 15000.4 |
| 57.5° | 13715.3 | 13649.0 | 13828.4 | 15231.4 | 17224.0 | 18138.1 | 19039.8 | 19772.1 | 20602.5 | 19605.0 | 15115.9 |
| 60° | 14649.1 | 14516.4 | 14730.1 | 16486.9 | 19059.5 | 19926.9 | 20676.3 | 20872.8 | 21575.6 | 20032.5 | 14916.9 |
| 62.5° | 15393.5 | 15396.1 | 15794.0 | 17823.6 | 20946.5 | 21705.8 | 22103.9 | 22280.7 | 22413.4 | 19939.2 | 13870.1 |
| 65° | 16555.8 | 16595.1 | 17231.5 | 19678.7 | 23130.8 | 23789.3 | 24062.1 | 23487.2 | 22450.3 | 18779.4 | 12297.6 |
| 67.5° | 17754.8 | 17880.1 | 19044.8 | 22234.1 | 25654.3 | 26185.0 | 25833.7 | 23720.6 | 21447.8 | 16133.2 | 9324.6 |
| 70° | 18145.5 | 18351.9 | 20270.9 | 23993.3 | 27167.8 | 27443.1 | 26253.8 | 22632.1 | 17929.3 | 10786.5 | 4693.0 |
| 72.5° | 16627.0 | 16961.2 | 19565.7 | 23352.0 | 26202.2 | 25963.9 | 23489.6 | 18980.9 | 11398.4 | 4096.0 | 1432.5 |
| 75° | 11725.1 | 11872.6 | 16260.9 | 19371.6 | 21074.3 | 20398.6 | 17867.8 | 12236.3 | 4688.1 | 1149.9 | 491.4 |
| 77.5° | 6054.2 | 5983.0 | 9671.1 | 12852.9 | 15029.9 | 14329.7 | 11700.6 | 6334.3 | 1776.5 | 479.1 | 304.7 |
| 80° | 3130.3 | 3181.9 | 4184.4 | 6734.8 | 9174.7 | 8442.5 | 6238.5 | 2936.2 | 945.9 | 265.4 | 233.4 |
| 82.5° | 1754.3 | 1646.3 | 2405.5 | 2941.1 | 4290.1 | 3363.8 | 2393.2 | 2078.7 | 412.8 | 159.7 | 221.1 |
| 85° | 319.4 | 334.2 | 1319.4 | 1589.7 | 1489.0 | 945.9 | 771.5 | 1388.3 | 120.4 | 88.5 | 154.8 |
| 87.5° | 4.9 | 4.9 | 255.6 | 457.0 | 289.9 | 132.7 | 243.3 | 199.0 | 24.6 | 34.4 | 27.0 |
| 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-SA8C-835-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5705.3 | 5705.3 | 5705.3 | 5705.3 | 5705.3 | 5705.3 | 5705.3 | 5705.3 | 5705.3 | 5705.3 | 5705.3 |
| 2.5° | 5678.3 | 5584.9 | 5410.5 | 5238.5 | 5019.8 | 4840.4 | 4720.0 | 4594.7 | 4466.9 | 4476.8 | 4506.2 |
| 5° | 5580.0 | 5417.8 | 5073.8 | 4710.2 | 4361.3 | 4046.8 | 3737.2 | 3459.5 | 3346.5 | 3243.3 | 3248.3 |
| 7.5° | 5481.7 | 5253.2 | 4749.5 | 4179.5 | 3651.2 | 3115.6 | 2727.3 | 2408.0 | 2238.4 | 2110.7 | 2073.8 |
| 10° | 5437.5 | 5135.3 | 4452.2 | 3668.4 | 2919.0 | 2334.2 | 1835.4 | 1575.0 | 1373.5 | 1309.6 | 1326.8 |
| 12.5° | 5457.1 | 5076.3 | 4184.4 | 3206.5 | 2314.5 | 1626.6 | 1277.7 | 1145.0 | 1100.7 | 1093.4 | 1088.4 |
| 15° | 5494.0 | 5034.5 | 3921.5 | 2695.4 | 1700.3 | 1208.9 | 1073.7 | 1049.1 | 1044.3 | 1039.4 | 1041.8 |
| 17.5° | 5543.2 | 4997.7 | 3641.4 | 2216.3 | 1304.7 | 1056.5 | 1017.2 | 1005.0 | 1002.5 | 1002.5 | 1002.5 |
| 20° | 5592.3 | 4955.9 | 3329.3 | 1788.8 | 1088.4 | 997.5 | 973.0 | 965.6 | 963.2 | 963.2 | 960.7 |
| 22.5° | 5648.8 | 4919.0 | 3012.4 | 1405.4 | 1002.5 | 955.8 | 933.6 | 928.8 | 926.3 | 923.9 | 923.9 |
| 25° | 5729.9 | 4872.4 | 2675.7 | 1149.9 | 948.4 | 916.5 | 894.3 | 889.5 | 887.0 | 877.2 | 879.6 |
| 27.5° | 5838.0 | 4838.0 | 2329.3 | 992.7 | 899.3 | 867.3 | 852.6 | 845.2 | 840.3 | 833.0 | 835.4 |
| 30° | 5985.4 | 4808.5 | 1960.7 | 906.6 | 842.7 | 815.7 | 801.0 | 796.1 | 791.1 | 783.8 | 783.8 |
| 32.5° | 6241.0 | 4820.8 | 1572.5 | 837.9 | 791.1 | 759.2 | 744.5 | 739.5 | 734.7 | 727.3 | 727.3 |
| 35° | 6624.3 | 4892.0 | 1258.0 | 778.9 | 729.8 | 697.8 | 683.1 | 683.1 | 675.7 | 665.9 | 663.4 |
| 37.5° | 7250.8 | 5073.8 | 1009.8 | 722.4 | 670.8 | 641.3 | 624.1 | 619.2 | 611.8 | 597.0 | 594.6 |
| 40° | 7990.4 | 5356.4 | 850.2 | 665.9 | 616.7 | 587.2 | 572.5 | 557.7 | 538.1 | 523.4 | 520.9 |
| 42.5° | 8919.2 | 5646.4 | 737.1 | 609.3 | 565.1 | 538.1 | 520.9 | 496.3 | 466.8 | 447.2 | 444.7 |
| 45° | 9887.3 | 5911.7 | 660.9 | 557.7 | 516.0 | 493.8 | 474.2 | 434.9 | 398.1 | 373.5 | 371.0 |
| 47.5° | 10609.6 | 5960.8 | 599.5 | 508.6 | 474.2 | 452.1 | 425.1 | 375.9 | 326.8 | 304.7 | 297.3 |
| 50° | 10951.2 | 5722.6 | 535.7 | 459.5 | 432.5 | 407.9 | 373.5 | 317.0 | 262.9 | 235.9 | 231.0 |
| 52.5° | 11071.5 | 5309.8 | 484.1 | 415.2 | 390.6 | 361.2 | 319.4 | 255.6 | 206.4 | 179.4 | 176.9 |
| 55° | 11022.4 | 4788.8 | 437.4 | 373.5 | 341.5 | 307.2 | 265.4 | 204.0 | 152.4 | 130.2 | 125.3 |
| 57.5° | 10764.4 | 4125.4 | 390.6 | 331.7 | 292.4 | 258.0 | 211.3 | 152.4 | 103.2 | 83.5 | 81.1 |
| 60° | 10069.1 | 3221.2 | 344.0 | 285.0 | 248.1 | 211.3 | 167.1 | 108.1 | 63.9 | 46.7 | 46.7 |
| 62.5° | 8894.6 | 2390.7 | 299.7 | 238.3 | 208.8 | 169.5 | 117.9 | 68.8 | 34.4 | 24.6 | 22.1 |
| 65° | 7432.6 | 1764.2 | 250.6 | 201.5 | 174.5 | 132.7 | 83.5 | 41.7 | 17.2 | 7.4 | 4.9 |
| 67.5° | 5186.9 | 1088.4 | 208.8 | 164.6 | 142.5 | 95.8 | 51.6 | 17.2 | 7.4 | 0.0 | 0.0 |
| 70° | 2356.4 | 518.4 | 159.7 | 125.3 | 108.1 | 68.8 | 27.0 | 9.9 | 4.9 | 0.0 | 0.0 |
| 72.5° | 732.2 | 272.7 | 113.0 | 90.9 | 73.7 | 44.2 | 14.7 | 7.4 | 4.9 | 0.0 | 0.0 |
| 75° | 339.0 | 174.5 | 71.3 | 49.2 | 41.7 | 22.1 | 9.9 | 4.9 | 2.4 | 0.0 | 0.0 |
| 77.5° | 253.1 | 135.1 | 41.7 | 27.0 | 22.1 | 14.7 | 7.4 | 4.9 | 2.4 | 0.0 | 0.0 |
| 80° | 221.1 | 68.8 | 24.6 | 17.2 | 12.3 | 9.9 | 4.9 | 2.4 | 0.0 | 0.0 | 0.0 |
| 82.5° | 199.0 | 34.4 | 14.7 | 9.9 | 7.4 | 4.9 | 2.4 | 2.4 | 0.0 | 0.0 | 0.0 |
| 85° | 108.1 | 19.7 | 9.9 | 7.4 | 4.9 | 2.4 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 19.7 | 9.9 | 7.4 | 4.9 | 4.9 | 2.4 | 2.4 | 2.4 | 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)