

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: P650630

Luminaire Tested: **GLAN-SA9B-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9B-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33412.2 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

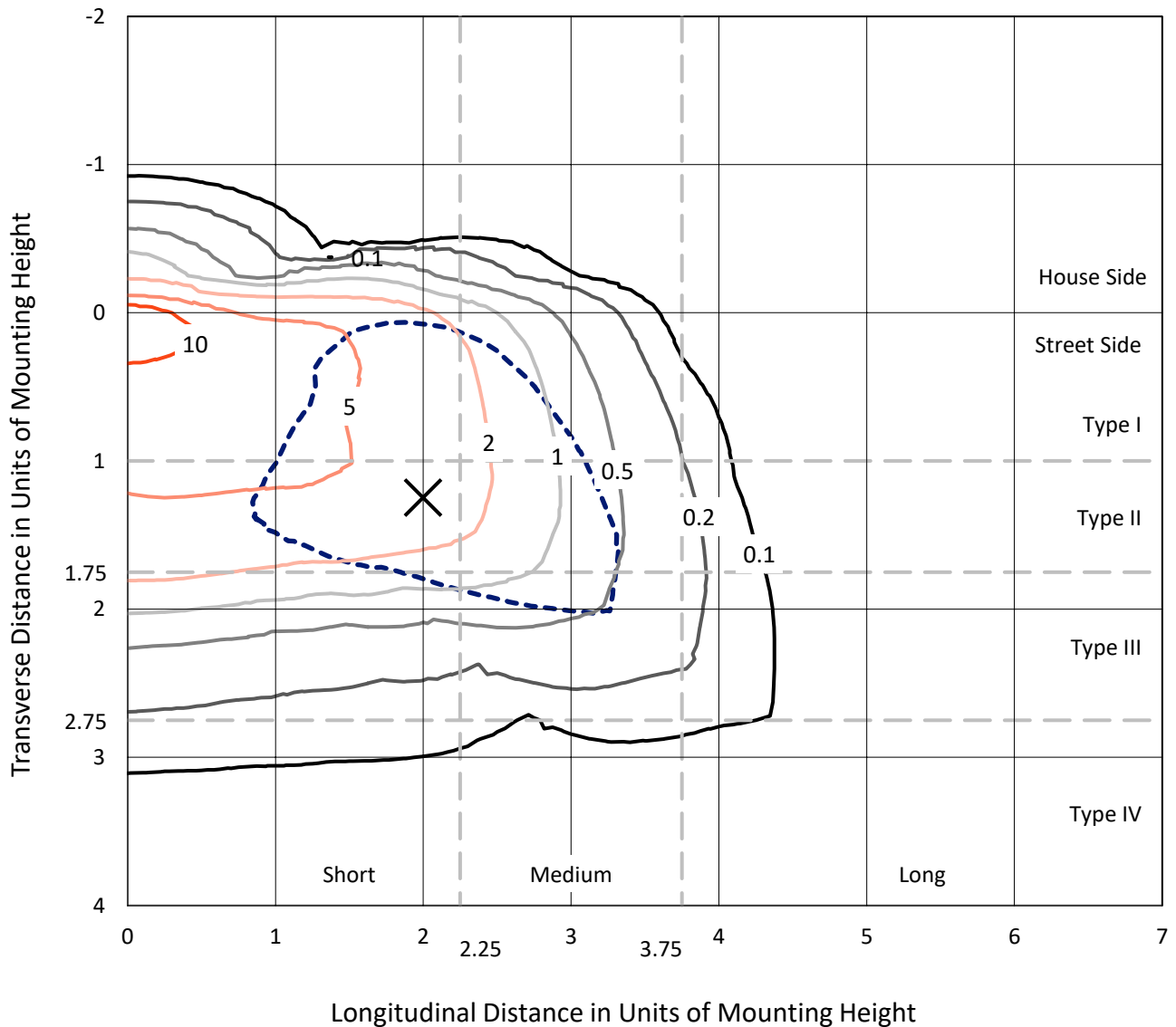
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

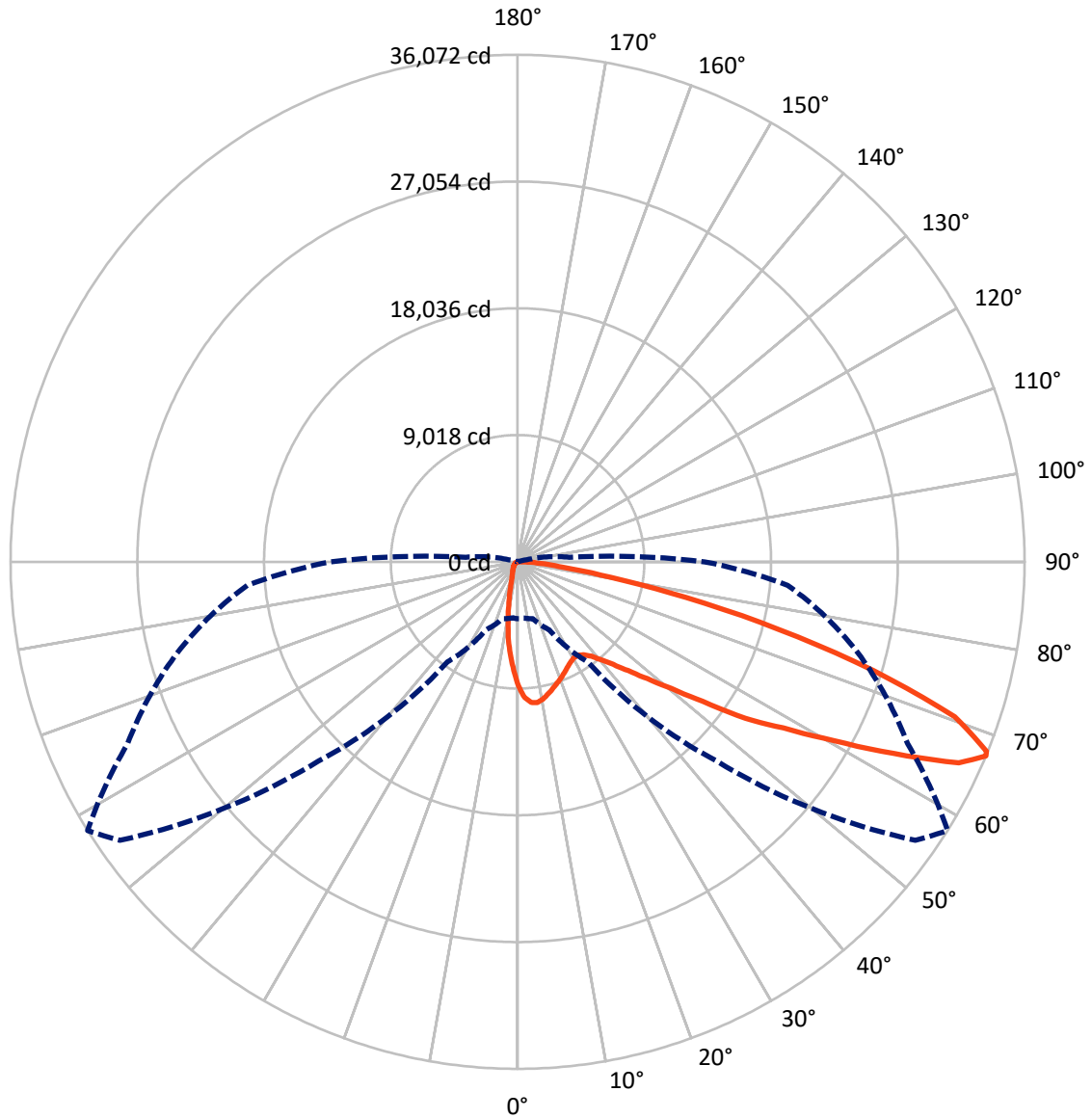
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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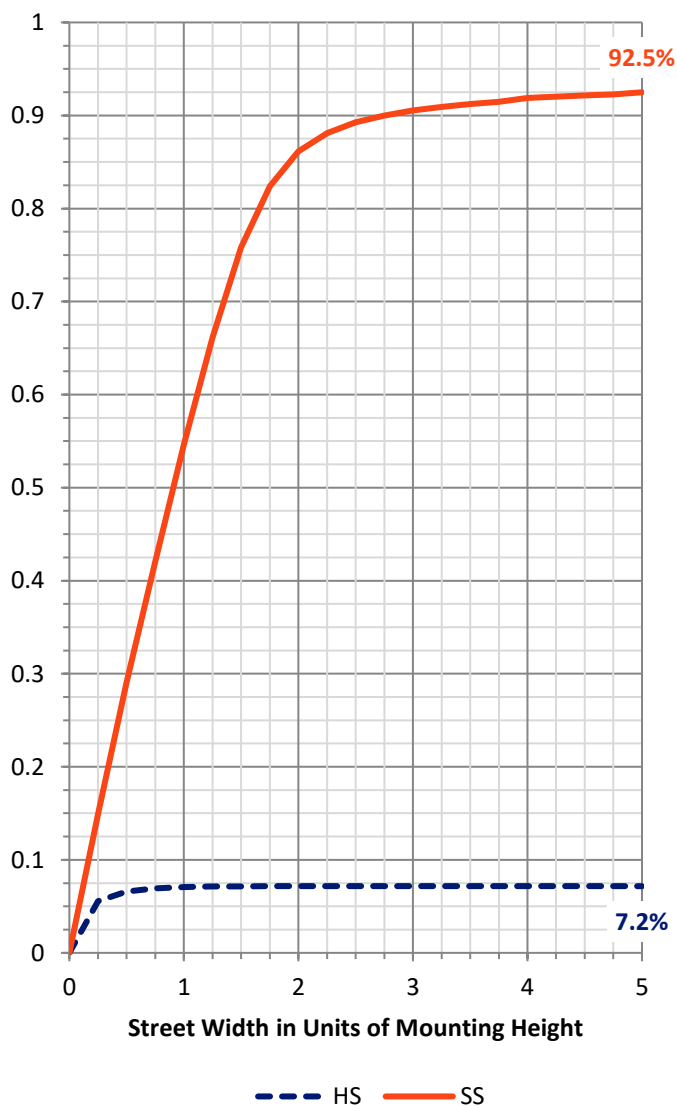
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2411.2 | 0.0 | 2411.2 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 31001.0 | 0.0 | 31001.0 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 33412.2 | 0.0 | 33412.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 718.7 | 2.2 |
| 10°-20° | 1552.3 | 4.6 |
| 20°-30° | 2103.5 | 6.3 |
| 30°-40° | 2917.4 | 8.7 |
| 40°-50° | 4653.0 | 13.9 |
| 50°-60° | 8043.0 | 24.1 |
| 60°-70° | 9187.7 | 27.5 |
| 70°-80° | 3830.4 | 11.5 |
| 80°-90° | 406.1 | 1.2 |
| 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° | 33412.2 | 100.0 |
| 0°-180° | 33412.2 | 100.0 |

Coefficient of Utilization



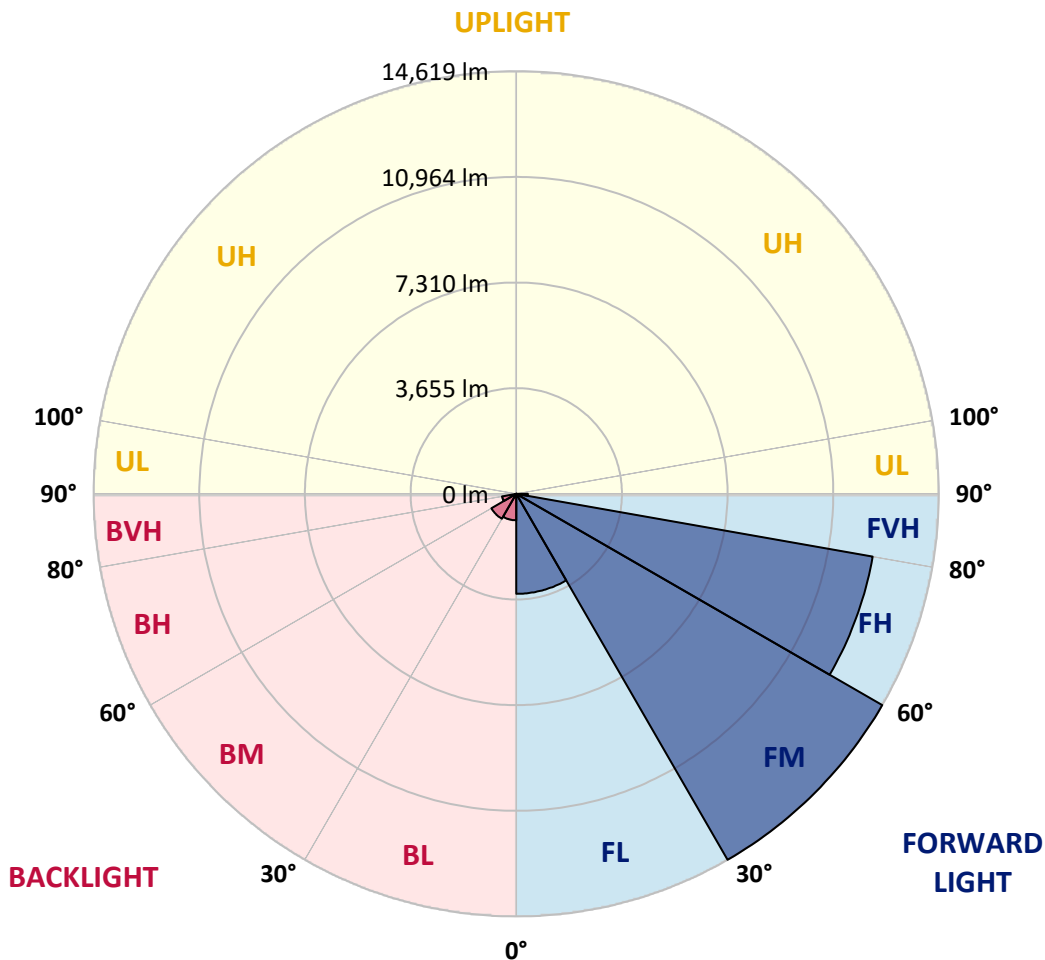
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 3459.0 | 10.4 | | | |
| FM (30°-60°) | 14619.2 | 43.8 | | | |
| FH (60°-80°) | 12519.6 | 37.5 | | | G5 |
| FVH (80°-90°) | 403.2 | 1.2 | | | G3/500 |
| BL (0°-30°) | 915.6 | 2.7 | B2/1000 | | |
| BM (30°-60°) | 994.2 | 3.0 | B1/1000 | | |
| BH (60°-80°) | 498.5 | 1.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.9 | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8857.3 | 8857.3 | 8857.3 | 8857.3 | 8857.3 | 8857.3 | 8857.3 | 8857.3 | 8857.3 | 8857.3 | 8857.3 |
| 2.5° | 10279.5 | 10295.1 | 10237.1 | 10190.2 | 10069.6 | 9940.1 | 9768.2 | 9676.7 | 9520.4 | 9250.2 | 8951.0 |
| 5° | 10520.6 | 10540.7 | 10531.8 | 10520.6 | 10473.8 | 10348.8 | 10129.9 | 10049.6 | 9819.6 | 9379.7 | 8839.4 |
| 7.5° | 9984.8 | 10058.5 | 10067.4 | 10154.5 | 10237.1 | 10248.2 | 10165.6 | 10105.4 | 9893.3 | 9377.5 | 8640.7 |
| 10° | 9274.8 | 9323.9 | 9395.4 | 9495.8 | 9694.6 | 9859.8 | 9940.1 | 9931.2 | 9808.4 | 9308.3 | 8408.5 |
| 12.5° | 8558.1 | 8584.9 | 8694.3 | 8866.2 | 9109.6 | 9390.9 | 9605.2 | 9647.7 | 9649.8 | 9225.7 | 8214.2 |
| 15° | 7941.8 | 7930.7 | 8015.5 | 8214.2 | 8555.8 | 8908.6 | 9292.6 | 9359.6 | 9466.8 | 9145.3 | 8033.3 |
| 17.5° | 7414.9 | 7473.0 | 7486.3 | 7705.2 | 8020.0 | 8477.7 | 8966.7 | 9085.0 | 9299.4 | 9076.1 | 7883.8 |
| 20° | 7089.0 | 7120.2 | 7149.2 | 7272.0 | 7555.6 | 8037.8 | 8660.8 | 8823.8 | 9143.0 | 9013.6 | 7716.3 |
| 22.5° | 6992.9 | 7013.0 | 6988.4 | 7026.4 | 7227.4 | 7656.0 | 8328.1 | 8544.6 | 8993.5 | 8955.5 | 7580.1 |
| 25° | 7066.6 | 7086.7 | 7028.7 | 6984.0 | 7053.2 | 7345.7 | 8006.6 | 8270.0 | 8872.9 | 8944.4 | 7477.4 |
| 27.5° | 7245.3 | 7283.2 | 7202.8 | 7122.4 | 7082.2 | 7178.2 | 7754.3 | 8060.2 | 8790.3 | 8997.9 | 7430.5 |
| 30° | 7524.3 | 7546.6 | 7486.3 | 7388.2 | 7296.5 | 7200.5 | 7622.6 | 7915.0 | 8768.0 | 9123.0 | 7426.1 |
| 32.5° | 7828.0 | 7874.9 | 7841.4 | 7776.6 | 7658.3 | 7430.5 | 7660.5 | 7919.5 | 8821.5 | 9303.8 | 7481.9 |
| 35° | 8203.1 | 8256.7 | 8287.9 | 8274.5 | 8122.7 | 7839.2 | 7901.6 | 8120.5 | 8964.4 | 9636.5 | 7633.7 |
| 37.5° | 8571.5 | 8618.3 | 8794.7 | 8855.0 | 8721.1 | 8453.1 | 8370.5 | 8515.7 | 9279.3 | 10071.9 | 7908.4 |
| 40° | 8993.5 | 9055.9 | 9303.8 | 9533.8 | 9469.1 | 9187.7 | 9035.9 | 9156.5 | 9761.5 | 10728.3 | 8428.6 |
| 42.5° | 9397.6 | 9509.2 | 9886.5 | 10292.9 | 10353.2 | 10038.4 | 9937.9 | 9978.1 | 10476.0 | 11672.7 | 9154.2 |
| 45° | 9971.4 | 10076.3 | 10563.1 | 11114.5 | 11398.1 | 11152.5 | 11049.8 | 11043.1 | 11456.2 | 13001.2 | 10330.9 |
| 47.5° | 10799.8 | 10893.5 | 11467.3 | 12012.1 | 12516.7 | 12550.2 | 12356.0 | 12422.9 | 12688.7 | 14555.2 | 11773.2 |
| 50° | 11815.6 | 12036.7 | 12414.0 | 12981.1 | 13655.4 | 14200.2 | 14260.5 | 14171.2 | 14398.9 | 16354.8 | 13505.8 |
| 52.5° | 13291.5 | 13376.3 | 13722.4 | 14189.1 | 14979.4 | 15903.7 | 16620.5 | 16497.7 | 16426.2 | 18069.5 | 15256.3 |
| 55° | 14392.2 | 14506.1 | 15044.2 | 15685.0 | 16843.7 | 18062.8 | 19616.8 | 19659.3 | 18757.2 | 19717.3 | 16968.8 |
| 57.5° | 14059.5 | 14233.7 | 15048.6 | 16336.9 | 18884.5 | 21112.7 | 22269.3 | 22298.4 | 20914.0 | 21318.2 | 18902.3 |
| 60° | 12351.5 | 12434.1 | 13601.8 | 15321.0 | 19058.6 | 24417.2 | 26031.5 | 25797.0 | 23108.8 | 23108.8 | 20610.4 |
| 62.5° | 8759.0 | 8888.5 | 9835.2 | 12364.9 | 17212.1 | 25564.8 | 30537.2 | 30052.6 | 26131.9 | 24821.3 | 21628.5 |
| 65° | 5597.4 | 5472.5 | 6099.8 | 7805.6 | 12822.6 | 23870.1 | 34460.1 | 34489.0 | 28976.4 | 25506.8 | 21072.6 |
| 67° | 4054.6 | 4005.5 | 4186.4 | 5336.2 | 8694.3 | 20065.6 | 34542.7 | 36072.1 | 30610.8 | 25073.6 | 19295.3 |
| 67.5° | 3708.6 | 3746.5 | 3878.3 | 4813.8 | 7899.5 | 18259.3 | 34167.5 | 35978.3 | 30979.2 | 24812.4 | 18652.2 |
| 70° | 2811.0 | 2746.3 | 2889.2 | 3405.0 | 4735.7 | 11518.7 | 29391.7 | 32997.6 | 30521.5 | 22220.2 | 14903.5 |
| 72.5° | 2067.5 | 2060.8 | 2259.5 | 2784.2 | 3646.0 | 6135.6 | 22063.9 | 26457.9 | 24935.2 | 16919.7 | 9384.2 |
| 75° | 1395.5 | 1457.9 | 1775.1 | 2326.5 | 3304.4 | 3978.7 | 15041.9 | 19194.9 | 17310.4 | 9607.5 | 3835.8 |
| 77.5° | 794.8 | 799.3 | 1143.2 | 1868.8 | 2967.3 | 3201.8 | 8913.0 | 12228.7 | 9163.1 | 3195.0 | 1138.7 |
| 80° | 343.8 | 377.3 | 567.1 | 1357.5 | 2460.5 | 2835.6 | 5110.7 | 6720.6 | 3706.3 | 676.5 | 368.4 |
| 82.5° | 127.2 | 149.6 | 250.1 | 835.1 | 1795.1 | 2335.5 | 3087.8 | 3208.4 | 1257.0 | 238.9 | 230.0 |
| 85° | 0.0 | 4.5 | 91.5 | 390.7 | 935.5 | 1042.7 | 2063.0 | 1902.3 | 555.9 | 113.8 | 149.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 40.2 | 122.8 | 388.5 | 640.8 | 714.5 | 134.0 | 40.2 | 35.7 |
| 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-SA9B-835-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8857.3 | 8857.3 | 8857.3 | 8857.3 | 8857.3 | 8857.3 | 8857.3 | 8857.3 | 8857.3 | 8857.3 | 8857.3 |
| 2.5° | 8790.3 | 8645.2 | 8281.2 | 7917.3 | 7647.1 | 7421.6 | 7082.2 | 6896.9 | 6798.7 | 6653.5 | 6662.5 |
| 5° | 8569.2 | 8274.5 | 7633.7 | 6970.6 | 6434.8 | 5912.3 | 5287.1 | 5034.8 | 4822.7 | 4702.1 | 4621.7 |
| 7.5° | 8241.0 | 7805.6 | 6856.7 | 5972.6 | 5148.7 | 4235.5 | 3550.0 | 3092.3 | 2784.2 | 2670.3 | 2561.0 |
| 10° | 7881.5 | 7303.3 | 6068.6 | 4842.8 | 3699.7 | 2757.4 | 2176.9 | 1757.1 | 1607.6 | 1469.1 | 1482.5 |
| 12.5° | 7548.9 | 6845.5 | 5345.1 | 3822.4 | 2592.2 | 1752.7 | 1366.4 | 1194.5 | 1145.4 | 1129.8 | 1129.8 |
| 15° | 7276.5 | 6407.9 | 4568.2 | 2873.5 | 1777.3 | 1259.3 | 1094.0 | 1047.2 | 1029.3 | 1024.8 | 1024.8 |
| 17.5° | 6986.2 | 5992.7 | 3867.1 | 2123.3 | 1292.7 | 1053.8 | 998.0 | 966.8 | 960.1 | 955.6 | 955.6 |
| 20° | 6727.2 | 5575.1 | 3201.8 | 1580.8 | 1044.9 | 948.9 | 913.2 | 893.1 | 886.4 | 881.9 | 884.2 |
| 22.5° | 6481.6 | 5204.5 | 2576.5 | 1194.5 | 919.9 | 864.0 | 828.3 | 808.2 | 794.8 | 783.7 | 785.9 |
| 25° | 6262.8 | 4847.2 | 2072.0 | 978.0 | 828.3 | 779.2 | 743.5 | 714.5 | 685.4 | 672.0 | 669.9 |
| 27.5° | 6108.7 | 4534.7 | 1614.2 | 837.3 | 745.7 | 692.2 | 647.5 | 611.8 | 573.8 | 553.7 | 549.3 |
| 30° | 5981.5 | 4217.6 | 1277.2 | 739.1 | 663.1 | 611.8 | 555.9 | 504.6 | 464.4 | 444.4 | 435.3 |
| 32.5° | 5898.9 | 3916.3 | 1006.9 | 658.7 | 593.9 | 531.4 | 468.9 | 417.5 | 372.9 | 352.7 | 348.3 |
| 35° | 5885.5 | 3663.9 | 823.9 | 591.7 | 531.4 | 464.4 | 399.6 | 343.8 | 305.9 | 285.8 | 281.3 |
| 37.5° | 5981.5 | 3469.7 | 689.9 | 538.1 | 480.1 | 406.4 | 334.9 | 283.5 | 250.1 | 234.4 | 232.2 |
| 40° | 6238.2 | 3346.9 | 598.4 | 493.4 | 433.2 | 352.7 | 285.8 | 241.2 | 207.7 | 192.0 | 192.0 |
| 42.5° | 6727.2 | 3351.3 | 538.1 | 451.0 | 386.3 | 301.5 | 243.4 | 200.9 | 171.9 | 158.6 | 154.1 |
| 45° | 7490.8 | 3503.1 | 486.7 | 408.6 | 341.6 | 261.2 | 207.7 | 165.2 | 136.2 | 125.0 | 125.0 |
| 47.5° | 8513.4 | 3804.6 | 442.1 | 366.1 | 301.5 | 223.3 | 176.4 | 134.0 | 109.4 | 98.3 | 98.3 |
| 50° | 9850.8 | 4289.1 | 404.1 | 330.4 | 267.9 | 192.0 | 142.9 | 109.4 | 84.9 | 76.0 | 73.7 |
| 52.5° | 11248.5 | 4887.5 | 359.5 | 299.2 | 230.0 | 163.0 | 116.1 | 84.9 | 64.8 | 58.0 | 55.8 |
| 55° | 12791.3 | 5472.5 | 317.0 | 267.9 | 187.5 | 136.2 | 91.5 | 66.9 | 46.9 | 40.2 | 40.2 |
| 57.5° | 14347.5 | 6046.2 | 265.7 | 223.3 | 147.4 | 100.5 | 71.4 | 49.1 | 31.2 | 24.6 | 24.6 |
| 60° | 15664.9 | 6231.6 | 225.5 | 180.9 | 111.7 | 71.4 | 51.4 | 31.2 | 17.9 | 11.2 | 11.2 |
| 62.5° | 15845.7 | 5606.4 | 189.8 | 138.4 | 80.4 | 49.1 | 26.8 | 17.9 | 6.7 | 4.5 | 4.5 |
| 65° | 14863.3 | 4554.8 | 158.6 | 104.9 | 53.6 | 24.6 | 11.2 | 6.7 | 2.3 | 0.0 | 0.0 |
| 67° | 13318.3 | 3692.9 | 129.5 | 78.1 | 38.0 | 15.7 | 6.7 | 2.3 | 0.0 | 0.0 | 0.0 |
| 67.5° | 12923.1 | 3521.0 | 125.0 | 73.7 | 33.5 | 13.4 | 4.5 | 2.3 | 0.0 | 0.0 | 0.0 |
| 70° | 10141.1 | 2636.8 | 89.3 | 44.6 | 20.1 | 8.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 6303.0 | 1491.5 | 64.8 | 26.8 | 13.4 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 2382.4 | 522.5 | 44.6 | 17.9 | 8.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 741.3 | 198.7 | 26.8 | 13.4 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 250.1 | 76.0 | 17.9 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 154.1 | 31.2 | 11.2 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 96.0 | 13.4 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 17.9 | 4.5 | 2.3 | 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)