

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: P454321

Luminaire Tested: **GLAN-SA5B-830-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5B-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19519 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

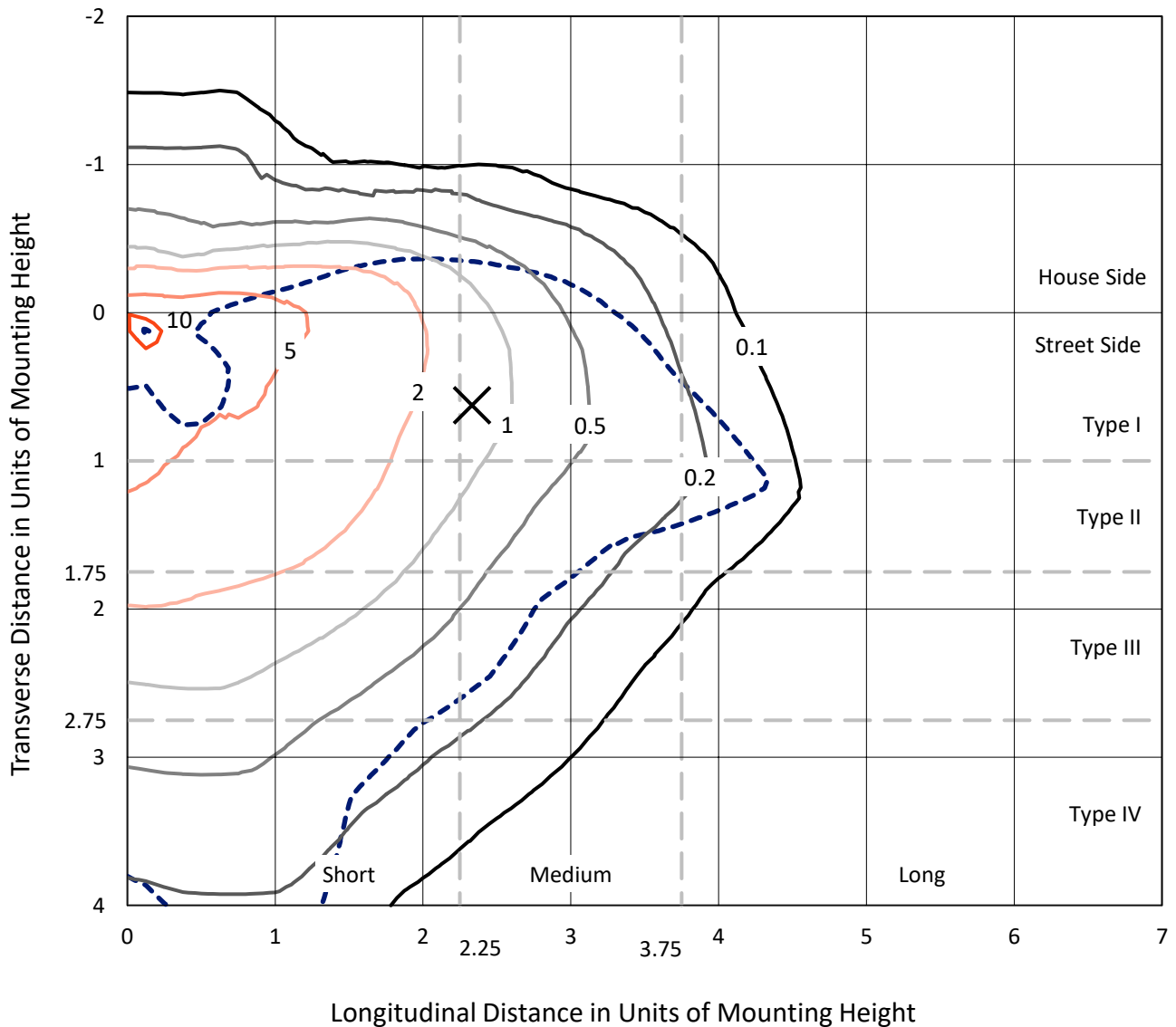
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

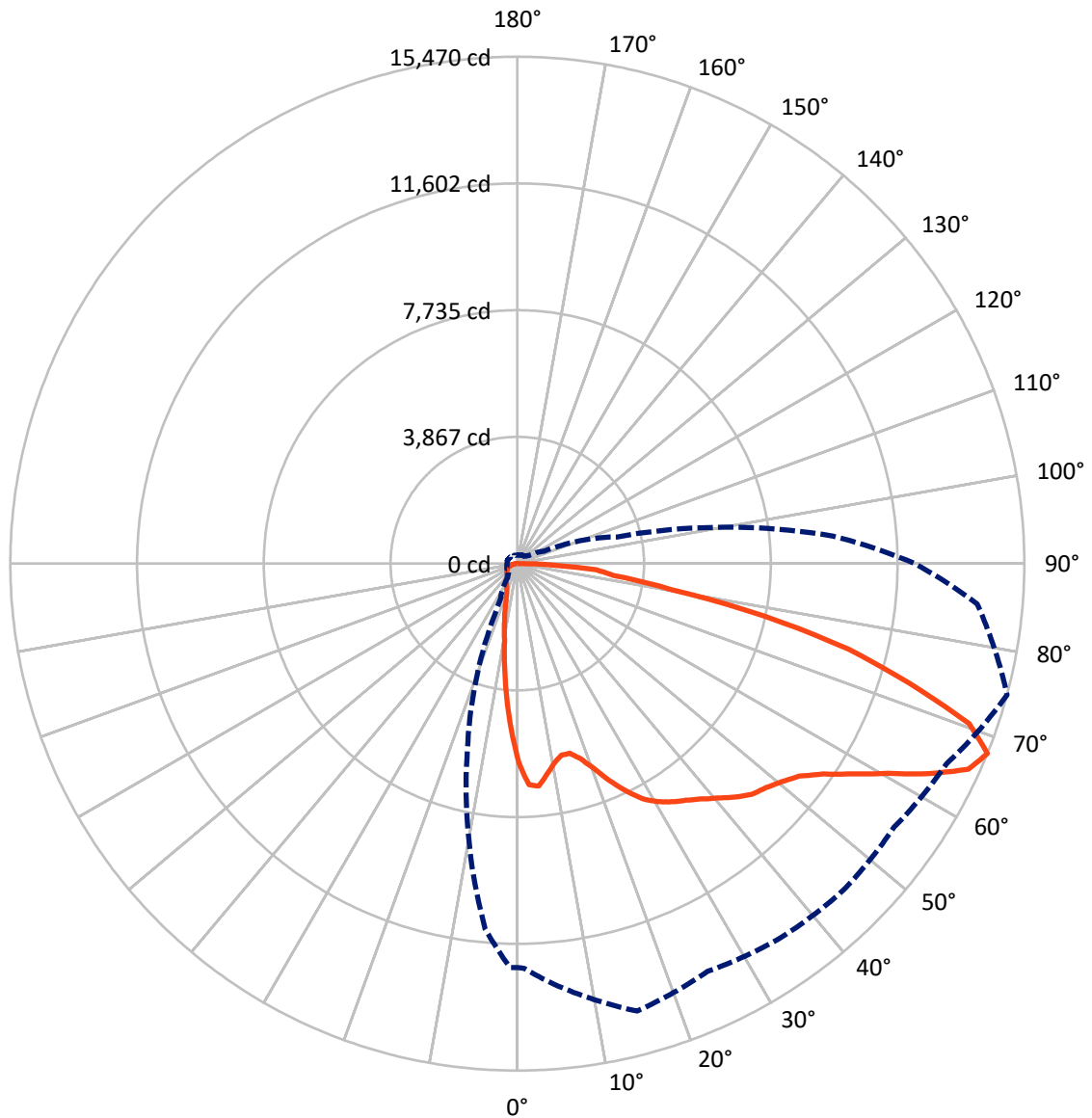
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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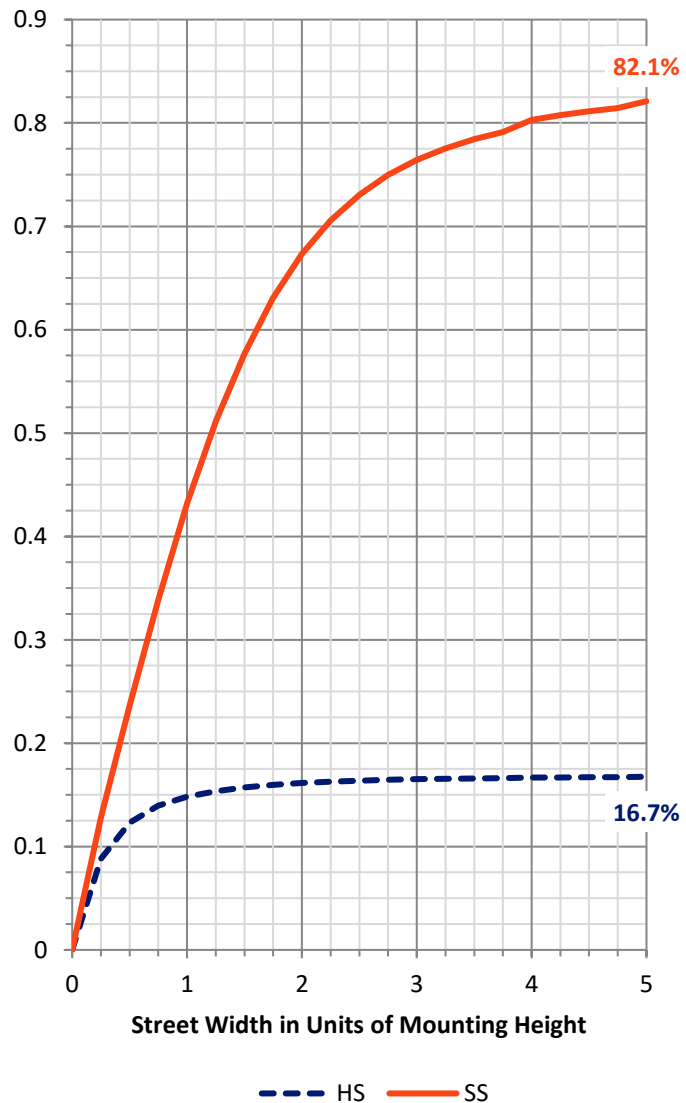
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3299.1 | 0.0 | 3299.1 |
| | % Fixture | 16.9 | 0.0 | 16.9 |
| Street Side | Lumens | 16219.9 | 0.0 | 16219.9 |
| | % Fixture | 83.1 | 0.0 | 83.1 |
| Total | Lumens | 19519.0 | 0.0 | 19519.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 462.5 | 2.4 |
| 10°-20° | 964.6 | 4.9 |
| 20°-30° | 1388.1 | 7.1 |
| 30°-40° | 1999.3 | 10.2 |
| 40°-50° | 2808.4 | 14.4 |
| 50°-60° | 3916.8 | 20.1 |
| 60°-70° | 4656.8 | 23.9 |
| 70°-80° | 2742.6 | 14.1 |
| 80°-90° | 579.9 | 3.0 |
| 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° | 19519.0 | 100.0 |
| 0°-180° | 19519.0 | 100.0 |



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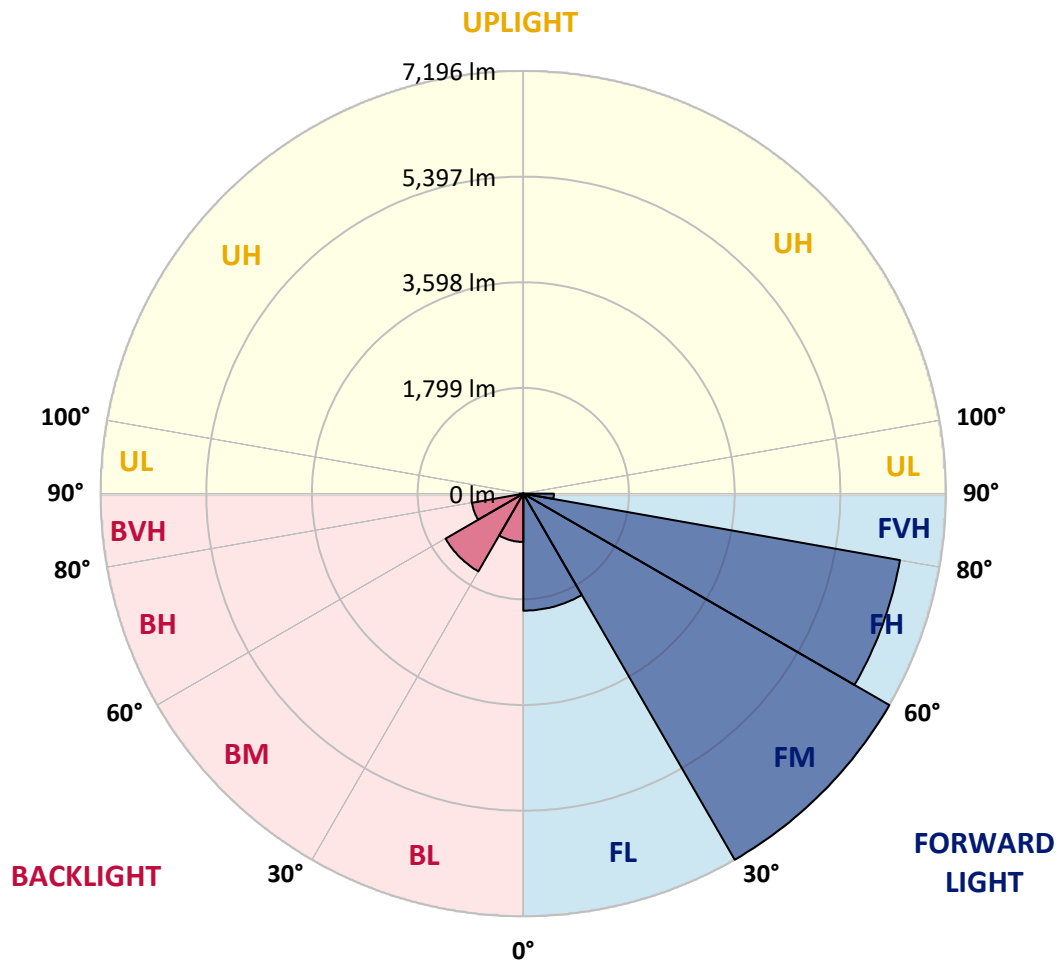
CATALOG NUMBER: GLAN-SA5B-830-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1992.4 | 10.2 | | | |
| FM | (30°-60°) | 7195.9 | 36.9 | | | |
| FH | (60°-80°) | 6511.6 | 33.4 | | | G3/7500 |
| FVH | (80°-90°) | 520.0 | 2.7 | | | G4/750 |
| BL | (0°-30°) | 822.9 | 4.2 | B2/1000 | | |
| BM | (30°-60°) | 1528.5 | 7.8 | B2/2500 | | |
| BH | (60°-80°) | 887.7 | 4.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 60.0 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Medium





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CATALOG NUMBER: GLAN-SA5B-830-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6098.2 | 6098.2 | 6098.2 | 6098.2 | 6098.2 | 6098.2 | 6098.2 | 6098.2 | 6098.2 | 6098.2 | 6098.2 |
| 2.5° | 6575.1 | 6583.9 | 6640.2 | 6804.1 | 6916.8 | 6958.1 | 6986.9 | 6933.1 | 6880.5 | 6752.8 | 6560.1 |
| 5° | 6555.1 | 6606.4 | 6752.8 | 7120.8 | 7411.2 | 7536.4 | 7573.9 | 7412.5 | 7145.9 | 6817.9 | 6423.6 |
| 7.5° | 6172.0 | 6240.9 | 6466.2 | 7083.3 | 7595.2 | 7888.1 | 7849.3 | 7557.7 | 7077.0 | 6492.5 | 5941.7 |
| 10° | 5717.7 | 5794.0 | 6065.7 | 6811.7 | 7471.3 | 7874.3 | 7874.3 | 7518.9 | 6880.5 | 6185.8 | 5551.2 |
| 12.5° | 5357.2 | 5437.3 | 5747.7 | 6532.5 | 7213.4 | 7595.2 | 7659.0 | 7353.6 | 6739.1 | 5991.8 | 5294.6 |
| 15° | 5238.3 | 5315.9 | 5650.1 | 6363.6 | 6940.6 | 7173.4 | 7194.7 | 7094.5 | 6670.2 | 6005.6 | 5283.4 |
| 17.5° | 5386.0 | 5486.1 | 5824.1 | 6413.6 | 6690.2 | 6704.0 | 6720.3 | 6799.1 | 6677.7 | 6257.2 | 5511.2 |
| 20° | 5812.8 | 5920.5 | 6273.4 | 6575.1 | 6471.2 | 6328.5 | 6337.3 | 6540.0 | 6766.6 | 6672.7 | 6055.6 |
| 22.5° | 6428.6 | 6522.5 | 6884.3 | 6859.2 | 6378.6 | 6084.4 | 6023.1 | 6306.0 | 6898.0 | 7190.9 | 6635.2 |
| 25° | 7093.3 | 7203.4 | 7619.0 | 7281.0 | 6404.9 | 5939.2 | 5900.4 | 6168.3 | 7034.5 | 7675.3 | 7304.8 |
| 27.5° | 7854.3 | 7962.0 | 8289.9 | 7706.6 | 6542.5 | 5928.0 | 5881.7 | 6155.8 | 7157.1 | 8123.4 | 7944.4 |
| 30° | 8420.1 | 8519.0 | 8741.8 | 8064.6 | 6711.5 | 6003.1 | 5945.5 | 6254.7 | 7262.3 | 8430.1 | 8567.8 |
| 32.5° | 8864.4 | 8967.1 | 9088.5 | 8287.4 | 6934.3 | 6139.5 | 6033.1 | 6434.9 | 7399.9 | 8664.1 | 9029.6 |
| 35° | 9327.5 | 9449.0 | 9440.2 | 8485.2 | 7142.1 | 6297.2 | 6193.3 | 6695.3 | 7616.5 | 8868.2 | 9615.4 |
| 37.5° | 9914.6 | 9963.4 | 9900.8 | 8662.9 | 7391.2 | 6581.3 | 6523.8 | 7082.0 | 7924.4 | 9114.8 | 10300.1 |
| 40° | 10510.4 | 10608.0 | 10286.3 | 8878.2 | 7694.1 | 7115.8 | 7109.6 | 7654.0 | 8289.9 | 9403.9 | 10963.5 |
| 42.5° | 11021.1 | 11103.7 | 10646.8 | 9065.9 | 8060.8 | 7767.9 | 7815.5 | 8421.3 | 8769.3 | 9739.3 | 11496.7 |
| 45° | 11405.3 | 11479.2 | 10979.8 | 9247.4 | 8544.0 | 8521.5 | 8801.8 | 9243.7 | 9373.9 | 10041.0 | 11809.6 |
| 47.5° | 11732.0 | 11803.4 | 11211.3 | 9522.8 | 9141.0 | 9421.4 | 9909.6 | 10101.1 | 9890.8 | 10213.7 | 12160.1 |
| 50° | 12007.4 | 12028.7 | 11370.3 | 9850.7 | 9882.0 | 10524.1 | 10997.3 | 11121.2 | 10401.5 | 10461.6 | 12464.3 |
| 52.5° | 12294.0 | 12266.5 | 11644.4 | 10263.8 | 10683.1 | 11570.6 | 11914.8 | 12043.7 | 10890.9 | 10767.0 | 12907.4 |
| 55° | 12936.1 | 12962.4 | 12259.0 | 10784.5 | 11492.9 | 12598.2 | 13051.3 | 12927.4 | 11432.9 | 11329.0 | 13470.6 |
| 57.5° | 13712.2 | 13689.7 | 13123.9 | 11599.3 | 12317.8 | 13554.5 | 13892.4 | 13693.4 | 12156.3 | 12101.3 | 14041.4 |
| 60° | 14013.8 | 14043.9 | 13847.4 | 12475.5 | 13131.4 | 14391.8 | 14737.3 | 14428.1 | 13023.8 | 12998.7 | 14472.0 |
| 62.5° | 13710.9 | 13879.9 | 14012.6 | 13255.3 | 13824.8 | 15007.7 | 15350.6 | 14997.7 | 13928.7 | 14110.2 | 14773.6 |
| 65° | 13107.6 | 13143.9 | 13595.8 | 13916.2 | 14159.0 | 15109.1 | 15288.1 | 15100.3 | 14684.7 | 15122.8 | 14759.8 |
| 67.5° | 12324.1 | 12355.4 | 12884.8 | 14132.7 | 13728.5 | 13957.5 | 14082.7 | 14027.6 | 14450.7 | 15469.5 | 14080.2 |
| 70° | 11578.1 | 11553.0 | 12112.5 | 13580.8 | 11951.1 | 11603.1 | 11707.0 | 11534.3 | 12469.3 | 14622.2 | 12747.1 |
| 72.5° | 10126.1 | 10216.2 | 10817.0 | 12046.2 | 9462.7 | 8897.0 | 9123.5 | 8676.7 | 9590.4 | 12523.1 | 10346.4 |
| 75° | 7931.9 | 7953.2 | 8955.8 | 10109.8 | 7138.3 | 6245.9 | 6552.6 | 6366.1 | 7346.1 | 10446.5 | 7144.6 |
| 77.5° | 5492.4 | 5444.8 | 6522.5 | 7721.6 | 5090.6 | 4572.4 | 4577.4 | 4488.5 | 5129.4 | 7691.6 | 4854.0 |
| 80° | 3488.4 | 3415.8 | 4083.0 | 4770.2 | 3498.5 | 3742.5 | 3619.9 | 3616.1 | 3339.5 | 4745.1 | 2935.2 |
| 82.5° | 1885.0 | 1965.1 | 2579.7 | 2990.3 | 2509.6 | 2892.6 | 2651.1 | 2573.5 | 2291.8 | 2970.2 | 1877.5 |
| 85° | 858.7 | 933.8 | 1375.6 | 2034.0 | 1906.3 | 1927.6 | 1288.0 | 1519.5 | 1896.3 | 2412.0 | 1002.6 |
| 87.5° | 83.9 | 107.6 | 284.1 | 960.0 | 650.9 | 513.2 | 191.5 | 369.2 | 476.9 | 857.4 | 80.1 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6098.2 | 6098.2 | 6098.2 | 6098.2 | 6098.2 | 6098.2 | 6098.2 | 6098.2 | 6098.2 | 6098.2 | 6098.2 |
| 2.5° | 6481.2 | 6416.1 | 6194.6 | 6011.8 | 5817.8 | 5670.1 | 5477.4 | 5348.4 | 5259.6 | 5125.6 | 5109.4 |
| 5° | 6183.3 | 6024.3 | 5638.8 | 5245.8 | 4906.6 | 4651.3 | 4392.2 | 4154.3 | 4014.1 | 3970.3 | 3914.0 |
| 7.5° | 5681.4 | 5413.5 | 4917.9 | 4467.3 | 4078.0 | 3697.5 | 3404.6 | 3196.8 | 3057.9 | 2976.5 | 2878.9 |
| 10° | 5268.3 | 4957.9 | 4354.6 | 3802.6 | 3482.2 | 3245.6 | 2987.8 | 2765.0 | 2593.5 | 2447.0 | 2366.9 |
| 12.5° | 4990.5 | 4640.0 | 3961.6 | 3513.5 | 3265.6 | 3014.1 | 2712.4 | 2462.1 | 2209.2 | 2042.7 | 1971.4 |
| 15° | 4906.6 | 4536.1 | 3840.2 | 3369.5 | 3014.1 | 2684.9 | 2346.9 | 2020.2 | 1769.9 | 1612.2 | 1559.6 |
| 17.5° | 5111.9 | 4663.8 | 3838.9 | 3178.0 | 2718.7 | 2325.6 | 1892.5 | 1585.9 | 1329.3 | 1211.6 | 1174.1 |
| 20° | 5494.9 | 4909.1 | 3850.2 | 2989.0 | 2398.2 | 1845.0 | 1376.9 | 1125.3 | 1002.6 | 952.5 | 933.8 |
| 22.5° | 6029.4 | 5283.4 | 3884.0 | 2802.5 | 2047.8 | 1416.9 | 1031.4 | 903.7 | 859.9 | 851.1 | 847.4 |
| 25° | 6687.7 | 5746.5 | 3997.9 | 2634.8 | 1752.4 | 1081.5 | 862.4 | 804.8 | 779.8 | 771.0 | 769.8 |
| 27.5° | 7293.6 | 6344.8 | 4135.6 | 2490.8 | 1467.0 | 932.5 | 779.8 | 731.0 | 705.9 | 704.7 | 707.2 |
| 30° | 7840.5 | 6845.5 | 4250.7 | 2329.4 | 1250.4 | 828.6 | 726.0 | 677.2 | 653.4 | 652.1 | 659.6 |
| 32.5° | 8313.7 | 7257.3 | 4335.8 | 2170.4 | 1130.3 | 764.8 | 677.2 | 624.6 | 604.6 | 600.8 | 604.6 |
| 35° | 8819.4 | 7667.8 | 4297.0 | 2046.5 | 1061.4 | 712.2 | 640.9 | 589.5 | 565.8 | 554.5 | 554.5 |
| 37.5° | 9396.4 | 8090.9 | 4230.7 | 1943.9 | 1030.1 | 668.4 | 609.6 | 559.5 | 535.7 | 524.5 | 523.2 |
| 40° | 10026.0 | 8513.9 | 4139.3 | 1852.5 | 998.8 | 642.1 | 588.3 | 535.7 | 506.9 | 495.7 | 493.2 |
| 42.5° | 10581.7 | 8875.7 | 4064.2 | 1792.4 | 947.5 | 647.1 | 569.5 | 518.2 | 481.9 | 466.9 | 465.6 |
| 45° | 11064.9 | 9239.9 | 4050.4 | 1757.4 | 905.0 | 639.6 | 564.5 | 504.4 | 461.9 | 445.6 | 443.1 |
| 47.5° | 11442.9 | 9619.2 | 4129.3 | 1737.3 | 858.7 | 599.6 | 597.1 | 495.7 | 444.3 | 426.8 | 424.3 |
| 50° | 11903.5 | 10157.4 | 4309.5 | 1696.0 | 816.1 | 562.0 | 630.8 | 494.4 | 430.6 | 408.0 | 401.8 |
| 52.5° | 12516.8 | 10858.3 | 4553.6 | 1622.2 | 754.8 | 527.0 | 602.1 | 494.4 | 414.3 | 391.8 | 384.3 |
| 55° | 13444.3 | 11752.0 | 4792.7 | 1518.3 | 668.4 | 480.6 | 543.2 | 479.4 | 390.5 | 370.5 | 365.5 |
| 57.5° | 14058.9 | 12405.4 | 4945.4 | 1374.3 | 560.8 | 446.9 | 468.1 | 455.6 | 366.7 | 345.5 | 345.5 |
| 60° | 14090.2 | 12580.7 | 4872.8 | 1192.9 | 493.2 | 415.6 | 406.8 | 459.4 | 345.5 | 322.9 | 320.4 |
| 62.5° | 13729.7 | 12151.3 | 4494.8 | 1030.1 | 456.9 | 381.8 | 368.0 | 403.0 | 324.2 | 301.7 | 297.9 |
| 65° | 13166.4 | 11056.1 | 3838.9 | 952.5 | 436.8 | 351.7 | 331.7 | 330.4 | 301.7 | 280.4 | 275.4 |
| 67.5° | 12131.3 | 9661.7 | 3154.2 | 907.5 | 426.8 | 317.9 | 299.2 | 292.9 | 275.4 | 257.8 | 255.3 |
| 70° | 10605.5 | 8092.1 | 2529.7 | 888.7 | 421.8 | 282.9 | 267.9 | 260.3 | 245.3 | 231.6 | 230.3 |
| 72.5° | 8251.1 | 6563.8 | 2087.8 | 876.2 | 419.3 | 250.3 | 234.1 | 224.1 | 215.3 | 202.8 | 202.8 |
| 75° | 5926.7 | 4829.0 | 1593.4 | 789.8 | 388.0 | 215.3 | 197.8 | 191.5 | 179.0 | 169.0 | 171.5 |
| 77.5° | 3736.3 | 3251.9 | 1048.9 | 580.8 | 300.4 | 172.7 | 157.7 | 154.0 | 143.9 | 130.2 | 138.9 |
| 80° | 2523.4 | 2286.8 | 612.1 | 365.5 | 189.0 | 126.4 | 121.4 | 120.2 | 108.9 | 93.9 | 95.1 |
| 82.5° | 1717.3 | 1684.8 | 317.9 | 207.8 | 108.9 | 73.8 | 71.3 | 73.8 | 61.3 | 50.1 | 50.1 |
| 85° | 670.9 | 916.2 | 150.2 | 81.4 | 35.0 | 11.3 | 16.3 | 17.5 | 10.0 | 5.0 | 6.3 |
| 87.5° | 12.5 | 93.9 | 3.8 | 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-SA5B-830-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6098.2 | 6098.2 | 6098.2 | 6098.2 | 6098.2 | 6098.2 | 6098.2 | 6098.2 | 6098.2 | 6098.2 | 6098.2 |
| 2.5° | 5084.3 | 5073.1 | 5091.8 | 5011.7 | 5028.0 | 5058.0 | 5073.1 | 5081.8 | 5205.7 | 5177.0 | 5255.8 |
| 5° | 3966.6 | 3955.3 | 4027.9 | 4037.9 | 4075.5 | 4068.0 | 4104.3 | 4113.0 | 4158.1 | 4174.4 | 4284.5 |
| 7.5° | 2885.1 | 2933.9 | 3016.6 | 3059.1 | 3122.9 | 3143.0 | 3124.2 | 3170.5 | 3076.6 | 3144.2 | 3164.3 |
| 10° | 2318.1 | 2259.3 | 2224.2 | 2321.9 | 2334.4 | 2427.0 | 2389.5 | 2359.4 | 2414.5 | 2417.0 | 2469.6 |
| 12.5° | 1930.1 | 1803.7 | 1719.8 | 1747.3 | 1777.4 | 1817.4 | 1823.7 | 1883.8 | 1923.8 | 1961.4 | 1992.7 |
| 15° | 1513.3 | 1469.5 | 1393.1 | 1355.6 | 1398.1 | 1414.4 | 1453.2 | 1503.3 | 1545.8 | 1557.1 | 1599.7 |
| 17.5° | 1161.6 | 1169.1 | 1156.6 | 1134.0 | 1160.3 | 1172.8 | 1175.3 | 1176.6 | 1187.8 | 1180.3 | 1242.9 |
| 20° | 935.0 | 961.3 | 992.6 | 997.6 | 1006.4 | 1012.6 | 1001.3 | 958.8 | 960.0 | 986.3 | 1006.4 |
| 22.5° | 846.1 | 851.1 | 886.2 | 897.5 | 925.0 | 913.7 | 881.2 | 861.2 | 858.7 | 864.9 | 874.9 |
| 25° | 776.0 | 783.6 | 808.6 | 826.1 | 847.4 | 827.4 | 803.6 | 784.8 | 782.3 | 788.6 | 798.6 |
| 27.5° | 713.5 | 724.7 | 747.3 | 764.8 | 784.8 | 766.0 | 743.5 | 727.2 | 726.0 | 724.7 | 731.0 |
| 30° | 663.4 | 675.9 | 692.2 | 712.2 | 726.0 | 709.7 | 688.4 | 679.7 | 678.4 | 675.9 | 678.4 |
| 32.5° | 613.3 | 633.4 | 649.6 | 659.6 | 673.4 | 660.9 | 644.6 | 639.6 | 630.8 | 623.3 | 619.6 |
| 35° | 557.0 | 578.3 | 603.3 | 615.8 | 629.6 | 617.1 | 605.8 | 584.5 | 569.5 | 568.3 | 570.8 |
| 37.5° | 524.5 | 533.2 | 553.2 | 574.5 | 588.3 | 582.0 | 560.8 | 539.5 | 535.7 | 535.7 | 538.2 |
| 40° | 495.7 | 499.4 | 508.2 | 535.7 | 560.8 | 542.0 | 515.7 | 509.4 | 509.4 | 508.2 | 509.4 |
| 42.5° | 466.9 | 470.6 | 470.6 | 491.9 | 532.0 | 501.9 | 481.9 | 481.9 | 481.9 | 483.1 | 486.9 |
| 45° | 440.6 | 441.8 | 440.6 | 455.6 | 493.2 | 468.1 | 454.4 | 458.1 | 460.6 | 463.1 | 465.6 |
| 47.5° | 418.1 | 419.3 | 418.1 | 430.6 | 449.4 | 439.3 | 431.8 | 436.8 | 441.8 | 445.6 | 448.1 |
| 50° | 398.0 | 396.8 | 399.3 | 406.8 | 415.6 | 418.1 | 413.1 | 420.6 | 423.1 | 428.1 | 434.3 |
| 52.5° | 380.5 | 379.3 | 381.8 | 385.5 | 398.0 | 398.0 | 398.0 | 404.3 | 409.3 | 414.3 | 423.1 |
| 55° | 360.5 | 361.7 | 365.5 | 370.5 | 386.8 | 384.3 | 385.5 | 390.5 | 395.5 | 403.0 | 408.0 |
| 57.5° | 341.7 | 344.2 | 349.2 | 356.7 | 373.0 | 371.7 | 373.0 | 375.5 | 381.8 | 385.5 | 390.5 |
| 60° | 320.4 | 325.4 | 331.7 | 336.7 | 353.0 | 351.7 | 358.0 | 363.0 | 366.7 | 366.7 | 369.2 |
| 62.5° | 299.2 | 306.7 | 312.9 | 316.7 | 334.2 | 335.5 | 344.2 | 348.0 | 350.5 | 348.0 | 351.7 |
| 65° | 277.9 | 289.1 | 291.6 | 296.6 | 314.2 | 315.4 | 325.4 | 334.2 | 331.7 | 329.2 | 335.5 |
| 67.5° | 256.6 | 270.4 | 269.1 | 275.4 | 292.9 | 295.4 | 304.2 | 319.2 | 314.2 | 311.7 | 316.7 |
| 70° | 232.8 | 242.8 | 244.1 | 247.8 | 271.6 | 267.9 | 281.6 | 295.4 | 291.6 | 292.9 | 292.9 |
| 72.5° | 206.5 | 215.3 | 215.3 | 222.8 | 247.8 | 241.6 | 252.8 | 267.9 | 267.9 | 266.6 | 266.6 |
| 75° | 175.2 | 180.2 | 185.2 | 196.5 | 222.8 | 215.3 | 222.8 | 236.6 | 239.1 | 236.6 | 236.6 |
| 77.5° | 141.4 | 149.0 | 151.5 | 166.5 | 185.2 | 184.0 | 191.5 | 197.8 | 202.8 | 200.3 | 200.3 |
| 80° | 100.1 | 107.6 | 117.7 | 133.9 | 145.2 | 149.0 | 152.7 | 157.7 | 160.2 | 160.2 | 162.7 |
| 82.5° | 56.3 | 67.6 | 76.4 | 92.6 | 97.6 | 116.4 | 115.2 | 118.9 | 115.2 | 101.4 | 112.7 |
| 85° | 12.5 | 23.8 | 33.8 | 42.6 | 48.8 | 67.6 | 71.3 | 80.1 | 66.3 | 61.3 | 61.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 20.0 | 27.5 | 23.8 | 20.0 | 20.0 |
| 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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| 2.5° | 5322.2 | 5431.1 | 5562.5 | 5789.0 | 5948.0 | 6119.5 | 6292.2 | 6476.2 | 6525.0 | 6575.1 |
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| 27.5° | 756.0 | 786.1 | 851.1 | 1040.1 | 1590.9 | 2560.9 | 4349.6 | 6893.0 | 7637.8 | 7854.3 |
| 30° | 685.9 | 726.0 | 787.3 | 923.7 | 1424.4 | 2417.0 | 4538.6 | 7418.7 | 8218.5 | 8420.1 |
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| 35° | 588.3 | 622.1 | 680.9 | 777.3 | 1175.3 | 2150.4 | 4628.7 | 8247.3 | 9152.3 | 9327.5 |
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| 42.5° | 505.7 | 539.5 | 583.3 | 664.6 | 928.7 | 1774.9 | 4623.7 | 9630.4 | 10825.8 | 11021.1 |
| 45° | 486.9 | 523.2 | 565.8 | 663.4 | 862.4 | 1688.5 | 4592.4 | 9989.7 | 11238.9 | 11405.3 |
| 47.5° | 470.6 | 510.7 | 572.0 | 640.9 | 846.1 | 1625.9 | 4564.9 | 10277.6 | 11575.6 | 11732.0 |
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| 52.5° | 450.6 | 508.2 | 607.1 | 575.8 | 842.4 | 1619.7 | 4974.2 | 11207.6 | 12284.0 | 12294.0 |
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| 60° | 398.0 | 513.2 | 469.4 | 461.9 | 635.9 | 1610.9 | 6209.6 | 13153.9 | 13950.0 | 14013.8 |
| 62.5° | 380.5 | 516.9 | 419.3 | 433.1 | 565.8 | 1538.3 | 6546.3 | 12774.7 | 13619.6 | 13710.9 |
| 65° | 360.5 | 416.8 | 386.8 | 403.0 | 529.5 | 1416.9 | 6439.9 | 12080.0 | 12998.7 | 13107.6 |
| 67.5° | 336.7 | 353.0 | 351.7 | 371.7 | 516.9 | 1237.9 | 5879.2 | 11201.3 | 12330.3 | 12324.1 |
| 70° | 307.9 | 316.7 | 320.4 | 341.7 | 493.2 | 1099.0 | 4899.1 | 10061.0 | 11437.9 | 11578.1 |
| 72.5° | 277.9 | 285.4 | 289.1 | 307.9 | 469.4 | 1020.1 | 3802.6 | 8490.2 | 9907.1 | 10126.1 |
| 75° | 245.3 | 250.3 | 255.3 | 271.6 | 444.3 | 903.7 | 2708.6 | 6481.2 | 7587.7 | 7931.9 |
| 77.5° | 211.5 | 211.5 | 217.8 | 234.1 | 374.3 | 746.0 | 1817.4 | 4546.1 | 5140.7 | 5492.4 |
| 80° | 171.5 | 172.7 | 170.2 | 187.8 | 275.4 | 510.7 | 1032.6 | 3036.6 | 3420.8 | 3488.4 |
| 82.5° | 131.4 | 127.7 | 128.9 | 137.7 | 205.3 | 348.0 | 550.7 | 1886.3 | 1922.6 | 1885.0 |
| 85° | 82.6 | 82.6 | 80.1 | 90.1 | 131.4 | 181.5 | 300.4 | 1155.3 | 902.5 | 858.7 |
| 87.5° | 33.8 | 27.5 | 31.3 | 36.3 | 62.6 | 73.8 | 117.7 | 237.8 | 91.4 | 83.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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