

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: P451421

Luminaire Tested: **GLAN-SA2B-740-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451421
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-SA2B-740-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 9863 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

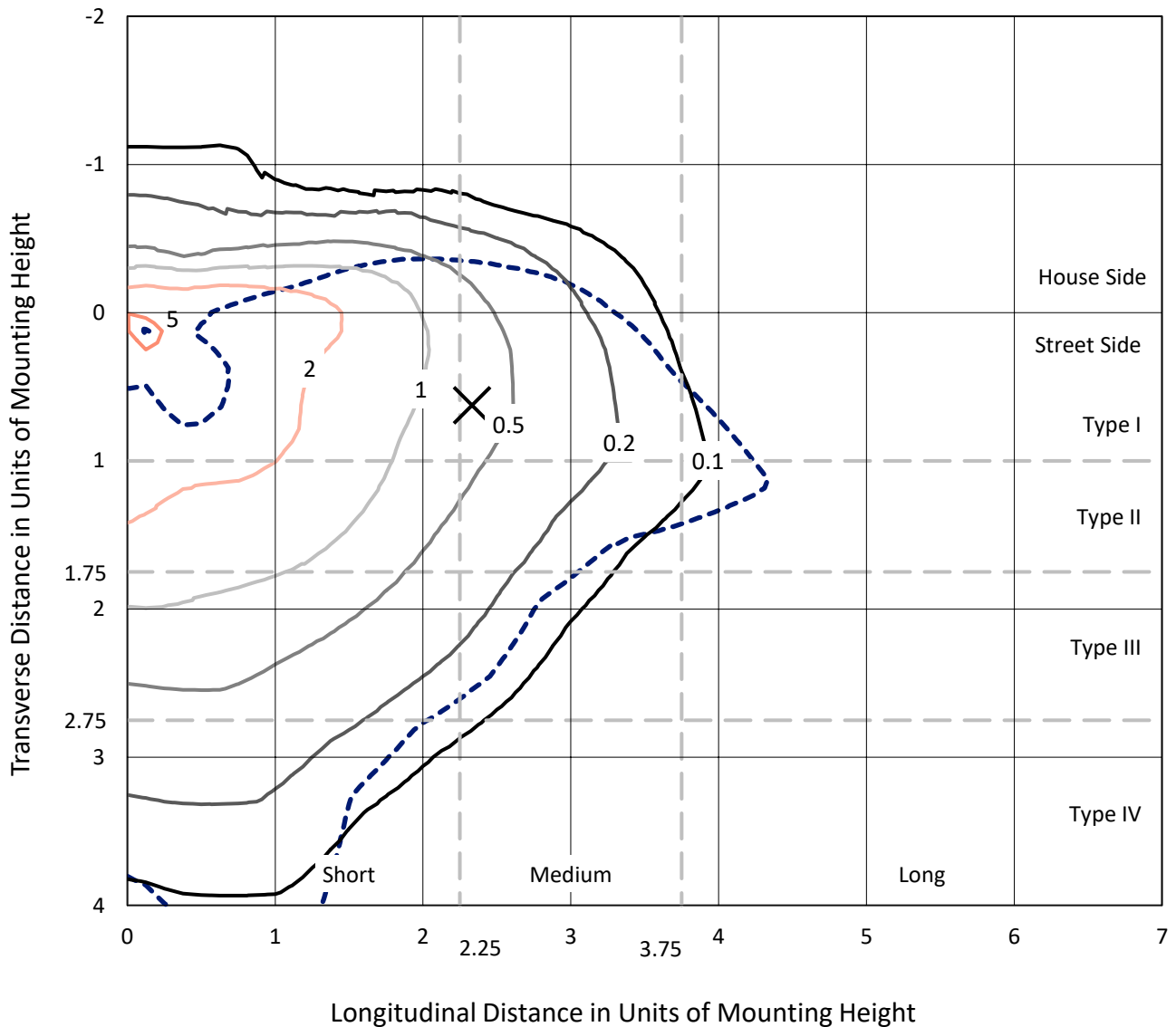
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

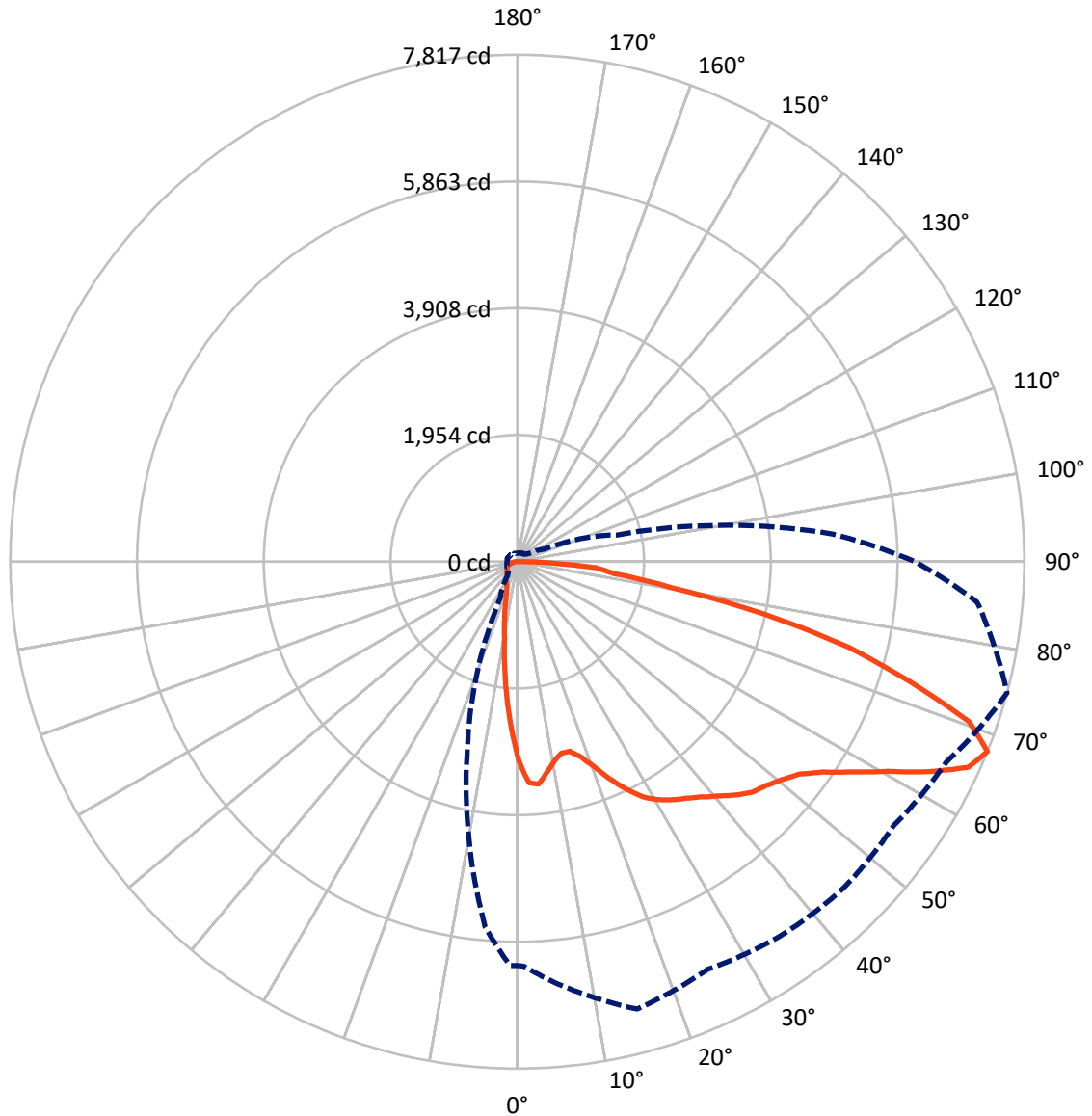
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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 | 1667.1 | 0.0 | 1667.1 |
| | % Fixture | 16.9 | 0.0 | 16.9 |
| Street Side | Lumens | 8195.9 | 0.0 | 8195.9 |
| | % Fixture | 83.1 | 0.0 | 83.1 |
| Total | Lumens | 9863.0 | 0.0 | 9863.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 233.7 | 2.4 |
| 10°-20° | 487.4 | 4.9 |
| 20°-30° | 701.4 | 7.1 |
| 30°-40° | 1010.2 | 10.2 |
| 40°-50° | 1419.1 | 14.4 |
| 50°-60° | 1979.1 | 20.1 |
| 60°-70° | 2353.1 | 23.9 |
| 70°-80° | 1385.8 | 14.1 |
| 80°-90° | 293.1 | 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° | 9863.0 | 100.0 |
| 0°-180° | 9863.0 | 100.0 |

Coefficient of Utilization



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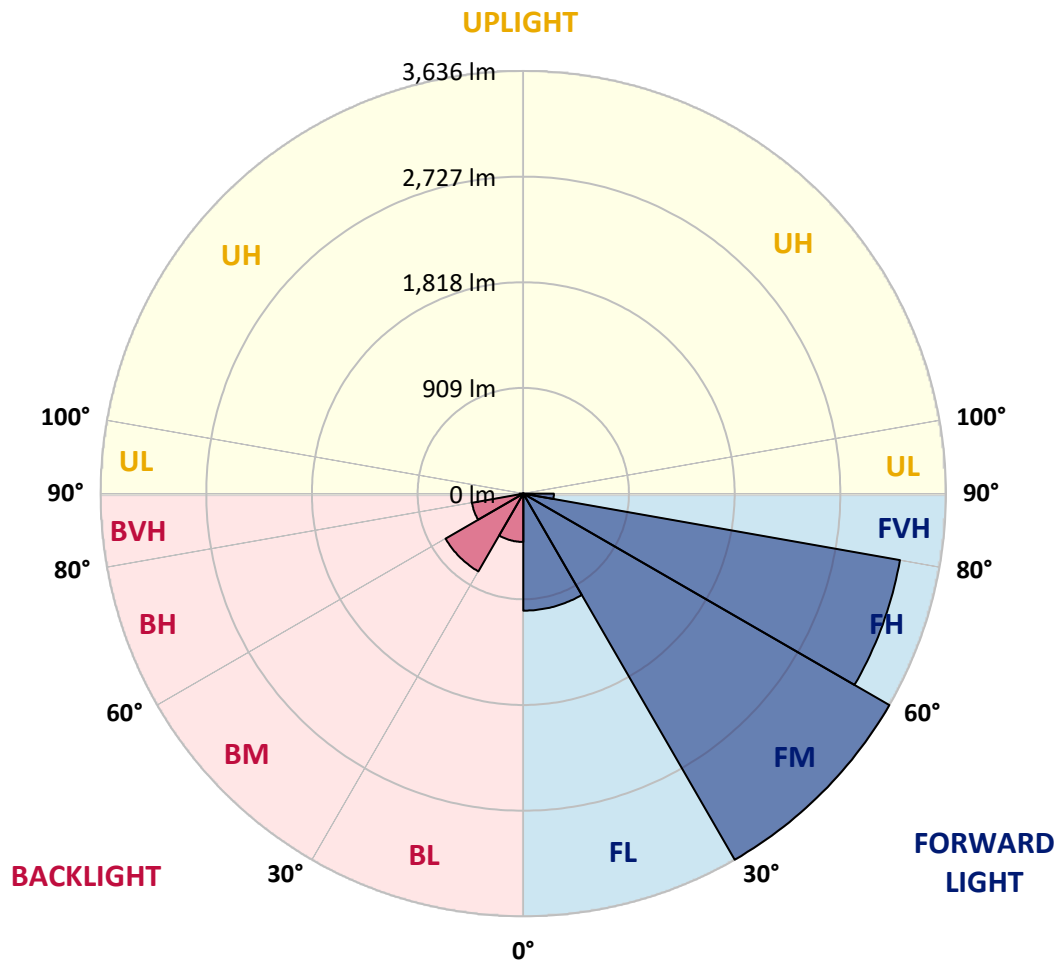
CATALOG NUMBER: GLAN-SA2B-740-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1006.7 | 10.2 | | | |
| FM | (30°-60°) | 3636.1 | 36.9 | | | |
| FH | (60°-80°) | 3290.3 | 33.4 | | | G2/5000 |
| FVH | (80°-90°) | 262.7 | 2.7 | | | G3/500 |
| BL | (0°-30°) | 415.8 | 4.2 | B1/500 | | |
| BM | (30°-60°) | 772.4 | 7.8 | B1/1000 | | |
| BH | (60°-80°) | 448.6 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 30.3 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type III Medium





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CATALOG NUMBER: GLAN-SA2B-740-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 |
| 2.5° | 3322.4 | 3326.8 | 3355.3 | 3438.2 | 3495.1 | 3515.9 | 3530.5 | 3503.3 | 3476.7 | 3412.2 | 3314.8 |
| 5° | 3312.3 | 3338.2 | 3412.2 | 3598.2 | 3744.9 | 3808.2 | 3827.1 | 3745.5 | 3610.8 | 3445.1 | 3245.9 |
| 7.5° | 3118.8 | 3153.5 | 3267.4 | 3579.2 | 3837.9 | 3985.9 | 3966.3 | 3818.9 | 3576.0 | 3280.7 | 3002.4 |
| 10° | 2889.2 | 2927.7 | 3065.0 | 3441.9 | 3775.3 | 3978.9 | 3978.9 | 3799.3 | 3476.7 | 3125.7 | 2805.0 |
| 12.5° | 2707.0 | 2747.5 | 2904.3 | 3300.9 | 3645.0 | 3837.9 | 3870.1 | 3715.8 | 3405.3 | 3027.7 | 2675.4 |
| 15° | 2646.9 | 2686.1 | 2855.0 | 3215.5 | 3507.1 | 3624.7 | 3635.5 | 3584.9 | 3370.5 | 3034.6 | 2669.7 |
| 17.5° | 2721.6 | 2772.2 | 2942.9 | 3240.8 | 3380.6 | 3387.6 | 3395.8 | 3435.6 | 3374.3 | 3161.8 | 2784.8 |
| 20° | 2937.2 | 2991.6 | 3170.0 | 3322.4 | 3269.9 | 3197.8 | 3202.2 | 3304.7 | 3419.2 | 3371.7 | 3059.9 |
| 22.5° | 3248.4 | 3295.8 | 3478.6 | 3466.0 | 3223.1 | 3074.5 | 3043.5 | 3186.4 | 3485.6 | 3633.6 | 3352.8 |
| 25° | 3584.3 | 3639.9 | 3849.9 | 3679.1 | 3236.4 | 3001.1 | 2981.5 | 3116.9 | 3554.5 | 3878.4 | 3691.1 |
| 27.5° | 3968.8 | 4023.2 | 4188.9 | 3894.2 | 3306.0 | 2995.4 | 2972.0 | 3110.5 | 3616.5 | 4104.8 | 4014.3 |
| 30° | 4254.7 | 4304.6 | 4417.2 | 4075.1 | 3391.3 | 3033.4 | 3004.3 | 3160.5 | 3669.6 | 4259.7 | 4329.3 |
| 32.5° | 4479.2 | 4531.1 | 4592.4 | 4187.6 | 3503.9 | 3102.3 | 3048.5 | 3251.6 | 3739.2 | 4378.0 | 4562.7 |
| 35° | 4713.2 | 4774.6 | 4770.2 | 4287.6 | 3608.9 | 3182.0 | 3129.5 | 3383.1 | 3848.6 | 4481.1 | 4858.7 |
| 37.5° | 5009.9 | 5034.5 | 5002.9 | 4377.4 | 3734.8 | 3325.6 | 3296.5 | 3578.6 | 4004.2 | 4605.7 | 5204.7 |
| 40° | 5310.9 | 5360.3 | 5197.7 | 4486.2 | 3887.8 | 3595.6 | 3592.5 | 3867.6 | 4188.9 | 4751.8 | 5539.9 |
| 42.5° | 5569.0 | 5610.7 | 5379.9 | 4581.0 | 4073.2 | 3925.2 | 3949.2 | 4255.3 | 4431.1 | 4921.3 | 5809.3 |
| 45° | 5763.1 | 5800.5 | 5548.1 | 4672.8 | 4317.3 | 4305.9 | 4447.6 | 4670.9 | 4736.6 | 5073.7 | 5967.4 |
| 47.5° | 5928.2 | 5964.3 | 5665.1 | 4811.9 | 4619.0 | 4760.7 | 5007.3 | 5104.1 | 4997.8 | 5161.0 | 6144.5 |
| 50° | 6067.4 | 6078.1 | 5745.4 | 4977.6 | 4993.4 | 5317.9 | 5557.0 | 5619.6 | 5255.9 | 5286.3 | 6298.2 |
| 52.5° | 6212.2 | 6198.3 | 5883.9 | 5186.3 | 5398.2 | 5846.6 | 6020.6 | 6085.7 | 5503.2 | 5440.6 | 6522.1 |
| 55° | 6536.7 | 6549.9 | 6194.5 | 5449.4 | 5807.4 | 6365.9 | 6594.9 | 6532.2 | 5777.1 | 5724.6 | 6806.7 |
| 57.5° | 6928.8 | 6917.4 | 6631.5 | 5861.2 | 6224.2 | 6849.1 | 7019.9 | 6919.3 | 6142.6 | 6114.8 | 7095.1 |
| 60° | 7081.2 | 7096.4 | 6997.1 | 6303.9 | 6635.3 | 7272.2 | 7446.8 | 7290.6 | 6580.9 | 6568.3 | 7312.7 |
| 62.5° | 6928.2 | 7013.6 | 7080.6 | 6697.9 | 6985.7 | 7583.4 | 7756.7 | 7578.4 | 7038.2 | 7129.9 | 7465.1 |
| 65° | 6623.3 | 6641.7 | 6870.0 | 7031.9 | 7154.6 | 7634.6 | 7725.1 | 7630.2 | 7420.2 | 7641.6 | 7458.2 |
| 67.5° | 6227.4 | 6243.2 | 6510.7 | 7141.3 | 6937.0 | 7052.8 | 7116.0 | 7088.2 | 7302.0 | 7816.8 | 7114.7 |
| 70° | 5850.4 | 5837.8 | 6120.5 | 6862.4 | 6038.9 | 5863.1 | 5915.6 | 5828.3 | 6300.7 | 7388.6 | 6441.2 |
| 72.5° | 5116.7 | 5162.3 | 5465.9 | 6087.0 | 4781.5 | 4495.7 | 4610.1 | 4384.3 | 4846.0 | 6327.9 | 5228.1 |
| 75° | 4008.0 | 4018.8 | 4525.4 | 5108.5 | 3607.0 | 3156.1 | 3311.0 | 3216.8 | 3712.0 | 5278.7 | 3610.2 |
| 77.5° | 2775.3 | 2751.3 | 3295.8 | 3901.8 | 2572.3 | 2310.4 | 2313.0 | 2268.1 | 2591.9 | 3886.6 | 2452.8 |
| 80° | 1762.7 | 1726.0 | 2063.1 | 2410.4 | 1767.8 | 1891.1 | 1829.1 | 1827.2 | 1687.5 | 2397.7 | 1483.2 |
| 82.5° | 952.5 | 993.0 | 1303.5 | 1511.0 | 1268.1 | 1461.7 | 1339.6 | 1300.4 | 1158.1 | 1500.9 | 948.7 |
| 85° | 433.9 | 471.8 | 695.1 | 1027.8 | 963.3 | 974.0 | 650.8 | 767.8 | 958.2 | 1218.8 | 506.6 |
| 87.5° | 42.4 | 54.4 | 143.6 | 485.1 | 328.9 | 259.3 | 96.8 | 186.6 | 241.0 | 433.2 | 40.5 |
| 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-SA2B-740-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 |
| 2.5° | 3275.0 | 3242.1 | 3130.1 | 3037.8 | 2939.8 | 2865.1 | 2767.7 | 2702.6 | 2657.7 | 2590.0 | 2581.8 |
| 5° | 3124.4 | 3044.1 | 2849.3 | 2650.7 | 2479.3 | 2350.3 | 2219.4 | 2099.2 | 2028.4 | 2006.2 | 1977.8 |
| 7.5° | 2870.8 | 2735.5 | 2485.0 | 2257.3 | 2060.6 | 1868.3 | 1720.3 | 1615.3 | 1545.1 | 1504.0 | 1454.7 |
| 10° | 2662.1 | 2505.2 | 2200.4 | 1921.5 | 1759.6 | 1640.0 | 1509.7 | 1397.1 | 1310.5 | 1236.5 | 1196.0 |
| 12.5° | 2521.7 | 2344.6 | 2001.8 | 1775.4 | 1650.1 | 1523.0 | 1370.6 | 1244.1 | 1116.3 | 1032.2 | 996.2 |
| 15° | 2479.3 | 2292.1 | 1940.4 | 1702.6 | 1523.0 | 1356.7 | 1185.9 | 1020.8 | 894.3 | 814.6 | 788.1 |
| 17.5° | 2583.0 | 2356.6 | 1939.8 | 1605.9 | 1373.7 | 1175.1 | 956.3 | 801.4 | 671.7 | 612.2 | 593.3 |
| 20° | 2776.6 | 2480.6 | 1945.5 | 1510.4 | 1211.8 | 932.3 | 695.7 | 568.6 | 506.6 | 481.3 | 471.8 |
| 22.5° | 3046.6 | 2669.7 | 1962.6 | 1416.1 | 1034.7 | 716.0 | 521.2 | 456.6 | 434.5 | 430.1 | 428.2 |
| 25° | 3379.3 | 2903.7 | 2020.1 | 1331.4 | 885.5 | 546.5 | 435.8 | 406.7 | 394.0 | 389.6 | 389.0 |
| 27.5° | 3685.5 | 3206.0 | 2089.7 | 1258.6 | 741.3 | 471.2 | 394.0 | 369.4 | 356.7 | 356.1 | 357.4 |
| 30° | 3961.8 | 3459.0 | 2147.9 | 1177.0 | 631.8 | 418.7 | 366.8 | 342.2 | 330.2 | 329.5 | 333.3 |
| 32.5° | 4200.9 | 3667.1 | 2190.9 | 1096.7 | 571.1 | 386.4 | 342.2 | 315.6 | 305.5 | 303.6 | 305.5 |
| 35° | 4456.4 | 3874.6 | 2171.3 | 1034.1 | 536.3 | 359.9 | 323.8 | 297.9 | 285.9 | 280.2 | 280.2 |
| 37.5° | 4748.0 | 4088.3 | 2137.8 | 982.2 | 520.5 | 337.7 | 308.0 | 282.7 | 270.7 | 265.0 | 264.4 |
| 40° | 5066.2 | 4302.1 | 2091.6 | 936.1 | 504.7 | 324.5 | 297.3 | 270.7 | 256.2 | 250.5 | 249.2 |
| 42.5° | 5347.0 | 4484.9 | 2053.7 | 905.7 | 478.8 | 327.0 | 287.8 | 261.8 | 243.5 | 235.9 | 235.3 |
| 45° | 5591.1 | 4669.0 | 2046.7 | 888.0 | 457.3 | 323.2 | 285.2 | 254.9 | 233.4 | 225.2 | 223.9 |
| 47.5° | 5782.1 | 4860.6 | 2086.5 | 877.9 | 433.9 | 303.0 | 301.7 | 250.5 | 224.5 | 215.7 | 214.4 |
| 50° | 6014.9 | 5132.6 | 2177.6 | 857.0 | 412.4 | 284.0 | 318.8 | 249.8 | 217.6 | 206.2 | 203.0 |
| 52.5° | 6324.8 | 5486.7 | 2301.0 | 819.7 | 381.4 | 266.3 | 304.2 | 249.8 | 209.4 | 198.0 | 194.2 |
| 55° | 6793.5 | 5938.3 | 2421.8 | 767.2 | 337.7 | 242.9 | 274.5 | 242.2 | 197.3 | 187.2 | 184.7 |
| 57.5° | 7104.0 | 6268.5 | 2498.9 | 694.5 | 283.4 | 225.8 | 236.5 | 230.2 | 185.3 | 174.6 | 174.6 |
| 60° | 7119.8 | 6357.0 | 2462.2 | 602.8 | 249.2 | 210.0 | 205.6 | 232.1 | 174.6 | 163.2 | 161.9 |
| 62.5° | 6937.7 | 6140.1 | 2271.2 | 520.5 | 230.9 | 192.9 | 185.9 | 203.7 | 163.8 | 152.4 | 150.5 |
| 65° | 6653.0 | 5586.7 | 1939.8 | 481.3 | 220.7 | 177.7 | 167.6 | 167.0 | 152.4 | 141.7 | 139.1 |
| 67.5° | 6130.0 | 4882.1 | 1593.8 | 458.5 | 215.7 | 160.6 | 151.2 | 148.0 | 139.1 | 130.3 | 129.0 |
| 70° | 5359.0 | 4089.0 | 1278.2 | 449.1 | 213.1 | 142.9 | 135.4 | 131.6 | 124.0 | 117.0 | 116.4 |
| 72.5° | 4169.3 | 3316.7 | 1055.0 | 442.7 | 211.9 | 126.5 | 118.3 | 113.2 | 108.8 | 102.5 | 102.5 |
| 75° | 2994.8 | 2440.1 | 805.1 | 399.1 | 196.1 | 108.8 | 99.9 | 96.8 | 90.4 | 85.4 | 86.6 |
| 77.5° | 1887.9 | 1643.2 | 530.0 | 293.5 | 151.8 | 87.3 | 79.7 | 77.8 | 72.7 | 65.8 | 70.2 |
| 80° | 1275.1 | 1155.5 | 309.3 | 184.7 | 95.5 | 63.9 | 61.4 | 60.7 | 55.0 | 47.4 | 48.1 |
| 82.5° | 867.8 | 851.3 | 160.6 | 105.0 | 55.0 | 37.3 | 36.1 | 37.3 | 31.0 | 25.3 | 25.3 |
| 85° | 339.0 | 463.0 | 75.9 | 41.1 | 17.7 | 5.7 | 8.2 | 8.9 | 5.1 | 2.5 | 3.2 |
| 87.5° | 6.3 | 47.4 | 1.9 | 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-SA2B-740-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 |
| 2.5° | 2569.1 | 2563.4 | 2572.9 | 2532.4 | 2540.7 | 2555.8 | 2563.4 | 2567.9 | 2630.5 | 2615.9 | 2655.8 |
| 5° | 2004.3 | 1998.6 | 2035.3 | 2040.4 | 2059.3 | 2055.6 | 2073.9 | 2078.3 | 2101.1 | 2109.3 | 2165.0 |
| 7.5° | 1457.9 | 1482.5 | 1524.3 | 1545.8 | 1578.0 | 1588.2 | 1578.7 | 1602.1 | 1554.6 | 1588.8 | 1598.9 |
| 10° | 1171.3 | 1141.6 | 1123.9 | 1173.2 | 1179.6 | 1226.4 | 1207.4 | 1192.2 | 1220.1 | 1221.3 | 1247.9 |
| 12.5° | 975.3 | 911.4 | 869.0 | 882.9 | 898.1 | 918.4 | 921.5 | 951.9 | 972.1 | 991.1 | 1006.9 |
| 15° | 764.7 | 742.5 | 703.9 | 685.0 | 706.5 | 714.7 | 734.3 | 759.6 | 781.1 | 786.8 | 808.3 |
| 17.5° | 586.9 | 590.7 | 584.4 | 573.0 | 586.3 | 592.6 | 593.9 | 594.5 | 600.2 | 596.4 | 628.1 |
| 20° | 472.5 | 485.7 | 501.6 | 504.1 | 508.5 | 511.7 | 506.0 | 484.5 | 485.1 | 498.4 | 508.5 |
| 22.5° | 427.6 | 430.1 | 447.8 | 453.5 | 467.4 | 461.7 | 445.3 | 435.1 | 433.9 | 437.0 | 442.1 |
| 25° | 392.1 | 395.9 | 408.6 | 417.4 | 428.2 | 418.1 | 406.1 | 396.6 | 395.3 | 398.5 | 403.5 |
| 27.5° | 360.5 | 366.2 | 377.6 | 386.4 | 396.6 | 387.1 | 375.7 | 367.5 | 366.8 | 366.2 | 369.4 |
| 30° | 335.2 | 341.5 | 349.8 | 359.9 | 366.8 | 358.6 | 347.9 | 343.4 | 342.8 | 341.5 | 342.8 |
| 32.5° | 309.9 | 320.0 | 328.3 | 333.3 | 340.3 | 333.9 | 325.7 | 323.2 | 318.8 | 315.0 | 313.1 |
| 35° | 281.5 | 292.2 | 304.9 | 311.2 | 318.1 | 311.8 | 306.1 | 295.4 | 287.8 | 287.1 | 288.4 |
| 37.5° | 265.0 | 269.4 | 279.6 | 290.3 | 297.3 | 294.1 | 283.4 | 272.6 | 270.7 | 270.7 | 272.0 |
| 40° | 250.5 | 252.4 | 256.8 | 270.7 | 283.4 | 273.9 | 260.6 | 257.4 | 257.4 | 256.8 | 257.4 |
| 42.5° | 235.9 | 237.8 | 237.8 | 248.6 | 268.8 | 253.6 | 243.5 | 243.5 | 243.5 | 244.1 | 246.0 |
| 45° | 222.6 | 223.3 | 222.6 | 230.2 | 249.2 | 236.5 | 229.6 | 231.5 | 232.8 | 234.0 | 235.3 |
| 47.5° | 211.2 | 211.9 | 211.2 | 217.6 | 227.1 | 222.0 | 218.2 | 220.7 | 223.3 | 225.2 | 226.4 |
| 50° | 201.1 | 200.5 | 201.8 | 205.6 | 210.0 | 211.2 | 208.7 | 212.5 | 213.8 | 216.3 | 219.5 |
| 52.5° | 192.3 | 191.6 | 192.9 | 194.8 | 201.1 | 201.1 | 201.1 | 204.3 | 206.8 | 209.4 | 213.8 |
| 55° | 182.2 | 182.8 | 184.7 | 187.2 | 195.4 | 194.2 | 194.8 | 197.3 | 199.9 | 203.7 | 206.2 |
| 57.5° | 172.7 | 173.9 | 176.5 | 180.3 | 188.5 | 187.8 | 188.5 | 189.7 | 192.9 | 194.8 | 197.3 |
| 60° | 161.9 | 164.4 | 167.6 | 170.1 | 178.4 | 177.7 | 180.9 | 183.4 | 185.3 | 185.3 | 186.6 |
| 62.5° | 151.2 | 155.0 | 158.1 | 160.0 | 168.9 | 169.5 | 173.9 | 175.8 | 177.1 | 175.8 | 177.7 |
| 65° | 140.4 | 146.1 | 147.4 | 149.9 | 158.8 | 159.4 | 164.4 | 168.9 | 167.6 | 166.3 | 169.5 |
| 67.5° | 129.7 | 136.6 | 136.0 | 139.1 | 148.0 | 149.3 | 153.7 | 161.3 | 158.8 | 157.5 | 160.0 |
| 70° | 117.6 | 122.7 | 123.3 | 125.2 | 137.2 | 135.4 | 142.3 | 149.3 | 147.4 | 148.0 | 148.0 |
| 72.5° | 104.4 | 108.8 | 108.8 | 112.6 | 125.2 | 122.1 | 127.8 | 135.4 | 135.4 | 134.7 | 134.7 |
| 75° | 88.5 | 91.1 | 93.6 | 99.3 | 112.6 | 108.8 | 112.6 | 119.5 | 120.8 | 119.5 | 119.5 |
| 77.5° | 71.5 | 75.3 | 76.5 | 84.1 | 93.6 | 93.0 | 96.8 | 99.9 | 102.5 | 101.2 | 101.2 |
| 80° | 50.6 | 54.4 | 59.5 | 67.7 | 73.4 | 75.3 | 77.2 | 79.7 | 81.0 | 81.0 | 82.2 |
| 82.5° | 28.5 | 34.2 | 38.6 | 46.8 | 49.3 | 58.8 | 58.2 | 60.1 | 58.2 | 51.2 | 56.9 |
| 85° | 6.3 | 12.0 | 17.1 | 21.5 | 24.7 | 34.2 | 36.1 | 40.5 | 33.5 | 31.0 | 31.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.1 | 10.1 | 13.9 | 12.0 | 10.1 | 10.1 |
| 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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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 | 3081.4 |
| 2.5° | 2689.3 | 2744.3 | 2810.7 | 2925.2 | 3005.5 | 3092.2 | 3179.5 | 3272.4 | 3297.1 | 3322.4 |
| 5° | 2180.2 | 2288.3 | 2347.1 | 2500.8 | 2662.1 | 2867.0 | 3034.6 | 3218.0 | 3294.6 | 3312.3 |
| 7.5° | 1651.4 | 1724.8 | 1879.1 | 2034.7 | 2234.5 | 2449.6 | 2706.4 | 2992.3 | 3081.4 | 3118.8 |
| 10° | 1309.2 | 1409.2 | 1544.5 | 1711.5 | 1886.7 | 2118.2 | 2407.8 | 2741.8 | 2868.3 | 2889.2 |
| 12.5° | 1114.4 | 1225.7 | 1373.1 | 1549.6 | 1715.3 | 1889.8 | 2182.1 | 2526.8 | 2662.1 | 2707.0 |
| 15° | 891.2 | 1025.9 | 1196.0 | 1382.0 | 1562.2 | 1753.2 | 2049.2 | 2438.2 | 2594.4 | 2646.9 |
| 17.5° | 700.2 | 808.9 | 993.0 | 1194.8 | 1408.5 | 1650.1 | 2021.4 | 2480.6 | 2672.9 | 2721.6 |
| 20° | 535.7 | 613.5 | 768.5 | 981.6 | 1232.1 | 1548.3 | 2028.4 | 2640.6 | 2870.8 | 2937.2 |
| 22.5° | 463.0 | 502.8 | 597.1 | 800.1 | 1080.3 | 1459.8 | 2056.8 | 2860.1 | 3137.7 | 3248.4 |
| 25° | 419.3 | 440.2 | 493.3 | 626.2 | 935.4 | 1373.7 | 2122.0 | 3155.4 | 3510.9 | 3584.3 |
| 27.5° | 382.0 | 397.2 | 430.1 | 525.6 | 803.9 | 1294.1 | 2197.9 | 3483.1 | 3859.4 | 3968.8 |
| 30° | 346.6 | 366.8 | 397.8 | 466.8 | 719.8 | 1221.3 | 2293.4 | 3748.7 | 4152.9 | 4254.7 |
| 32.5° | 319.4 | 339.6 | 368.1 | 425.7 | 648.3 | 1144.8 | 2350.3 | 3982.1 | 4392.6 | 4479.2 |
| 35° | 297.3 | 314.3 | 344.1 | 392.8 | 593.9 | 1086.6 | 2338.9 | 4167.4 | 4624.7 | 4713.2 |
| 37.5° | 281.5 | 296.0 | 325.7 | 361.8 | 552.8 | 1025.9 | 2333.2 | 4412.2 | 4907.4 | 5009.9 |
| 40° | 266.9 | 282.1 | 309.3 | 341.5 | 511.7 | 954.4 | 2336.4 | 4655.0 | 5208.5 | 5310.9 |
| 42.5° | 255.5 | 272.6 | 294.7 | 335.8 | 469.3 | 896.9 | 2336.4 | 4866.3 | 5470.3 | 5569.0 |
| 45° | 246.0 | 264.4 | 285.9 | 335.2 | 435.8 | 853.2 | 2320.6 | 5047.8 | 5679.0 | 5763.1 |
| 47.5° | 237.8 | 258.1 | 289.0 | 323.8 | 427.6 | 821.6 | 2306.6 | 5193.3 | 5849.2 | 5928.2 |
| 50° | 232.1 | 256.2 | 307.4 | 310.5 | 430.1 | 812.1 | 2373.7 | 5376.7 | 5999.1 | 6067.4 |
| 52.5° | 227.7 | 256.8 | 306.8 | 290.9 | 425.7 | 818.4 | 2513.5 | 5663.2 | 6207.1 | 6212.2 |
| 55° | 218.8 | 256.2 | 290.9 | 268.8 | 407.3 | 829.2 | 2693.1 | 6079.4 | 6532.9 | 6536.7 |
| 57.5° | 210.0 | 249.2 | 270.1 | 249.8 | 370.0 | 829.2 | 2909.4 | 6473.4 | 6925.6 | 6928.8 |
| 60° | 201.1 | 259.3 | 237.2 | 233.4 | 321.3 | 814.0 | 3137.7 | 6646.7 | 7049.0 | 7081.2 |
| 62.5° | 192.3 | 261.2 | 211.9 | 218.8 | 285.9 | 777.3 | 3307.9 | 6455.1 | 6882.0 | 6928.2 |
| 65° | 182.2 | 210.6 | 195.4 | 203.7 | 267.5 | 716.0 | 3254.1 | 6104.0 | 6568.3 | 6623.3 |
| 67.5° | 170.1 | 178.4 | 177.7 | 187.8 | 261.2 | 625.5 | 2970.8 | 5660.0 | 6230.5 | 6227.4 |
| 70° | 155.6 | 160.0 | 161.9 | 172.7 | 249.2 | 555.3 | 2475.5 | 5083.9 | 5779.6 | 5850.4 |
| 72.5° | 140.4 | 144.2 | 146.1 | 155.6 | 237.2 | 515.5 | 1921.5 | 4290.1 | 5006.1 | 5116.7 |
| 75° | 124.0 | 126.5 | 129.0 | 137.2 | 224.5 | 456.6 | 1368.7 | 3275.0 | 3834.1 | 4008.0 |
| 77.5° | 106.9 | 106.9 | 110.1 | 118.3 | 189.1 | 377.0 | 918.4 | 2297.2 | 2597.6 | 2775.3 |
| 80° | 86.6 | 87.3 | 86.0 | 94.9 | 139.1 | 258.1 | 521.8 | 1534.4 | 1728.6 | 1762.7 |
| 82.5° | 66.4 | 64.5 | 65.1 | 69.6 | 103.7 | 175.8 | 278.3 | 953.1 | 971.5 | 952.5 |
| 85° | 41.7 | 41.7 | 40.5 | 45.5 | 66.4 | 91.7 | 151.8 | 583.8 | 456.0 | 433.9 |
| 87.5° | 17.1 | 13.9 | 15.8 | 18.3 | 31.6 | 37.3 | 59.5 | 120.2 | 46.2 | 42.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)