

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: P528480

Luminaire Tested: **GLAN-SA3C-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3C-740-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18321 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

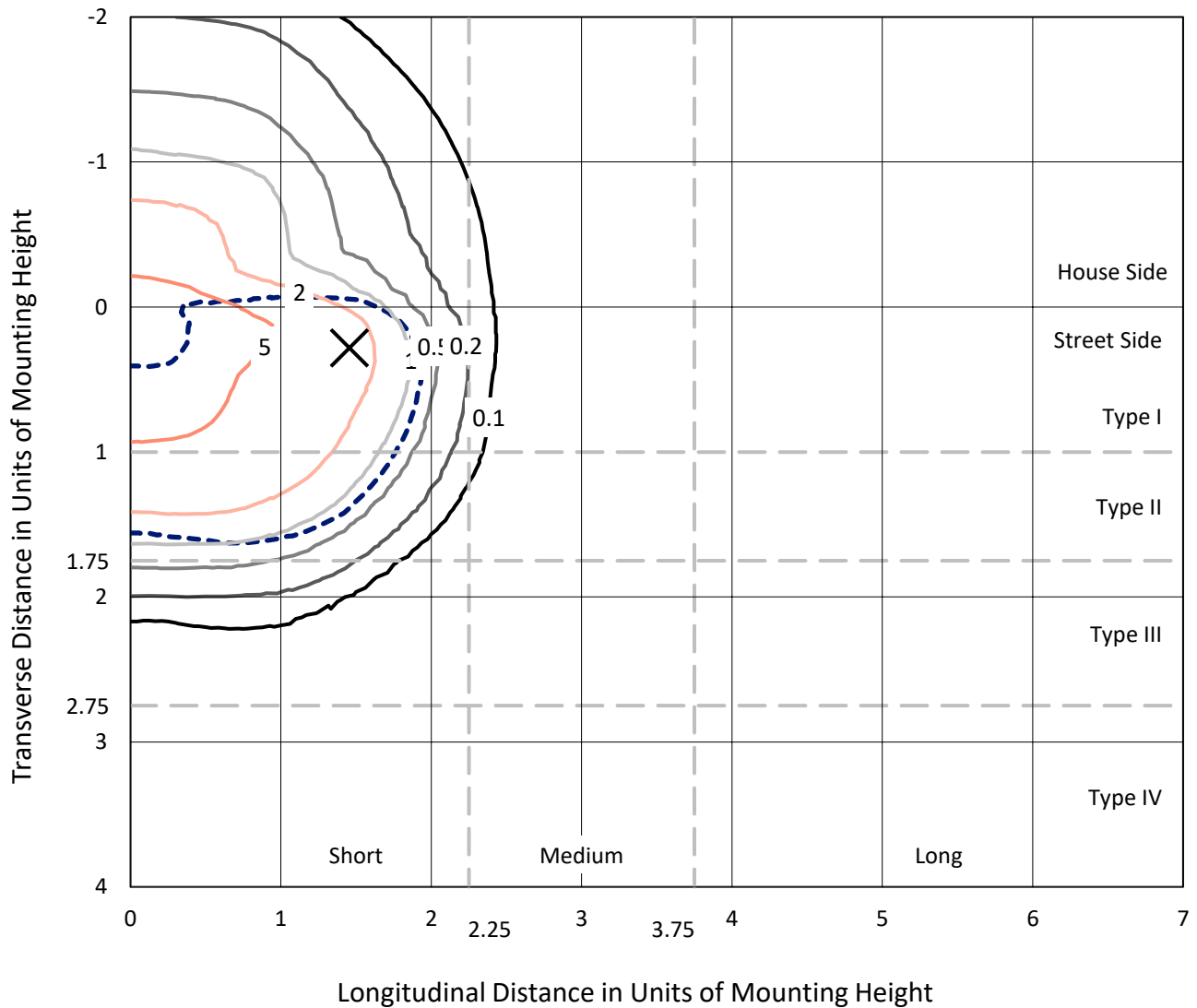
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

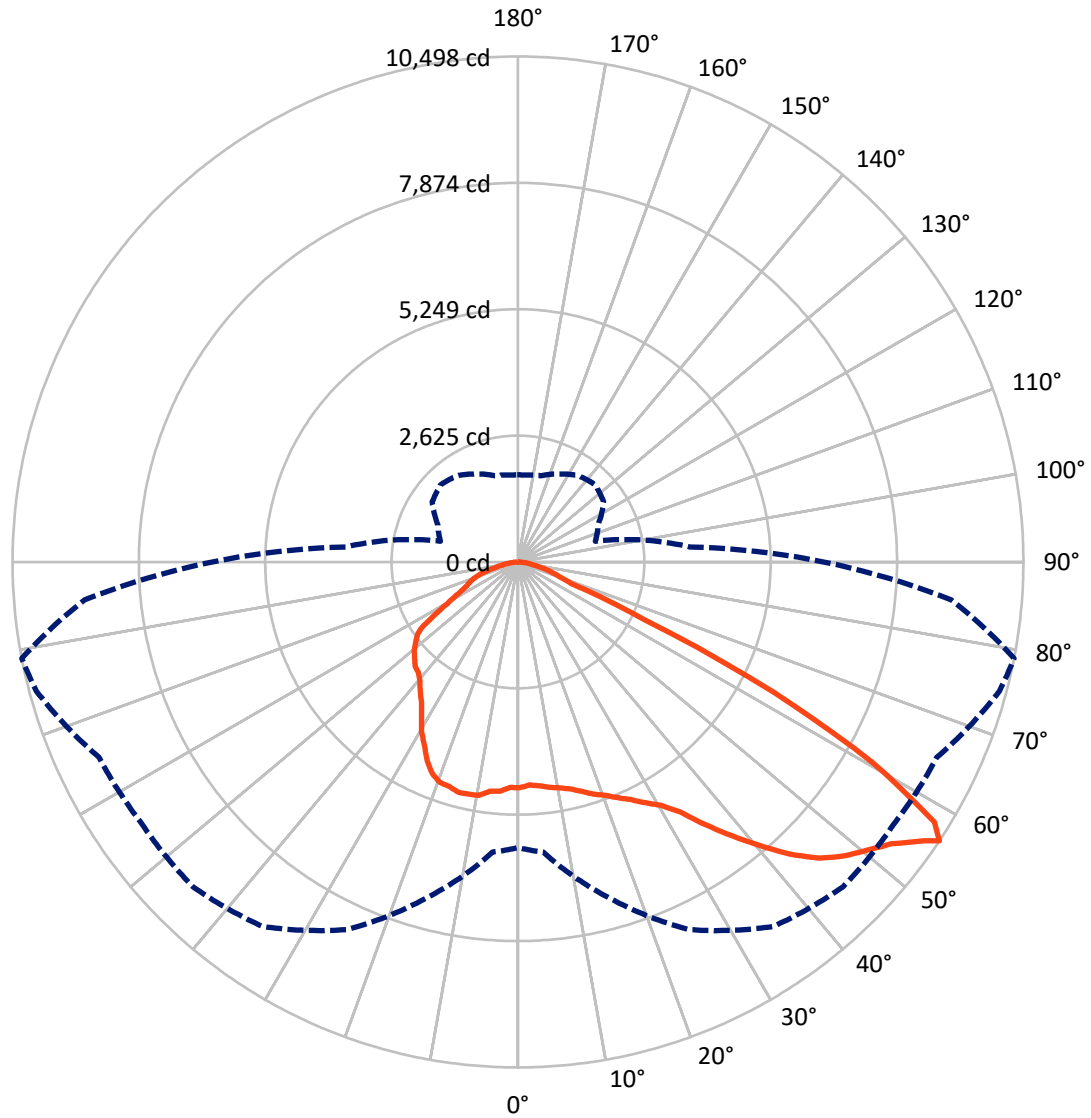
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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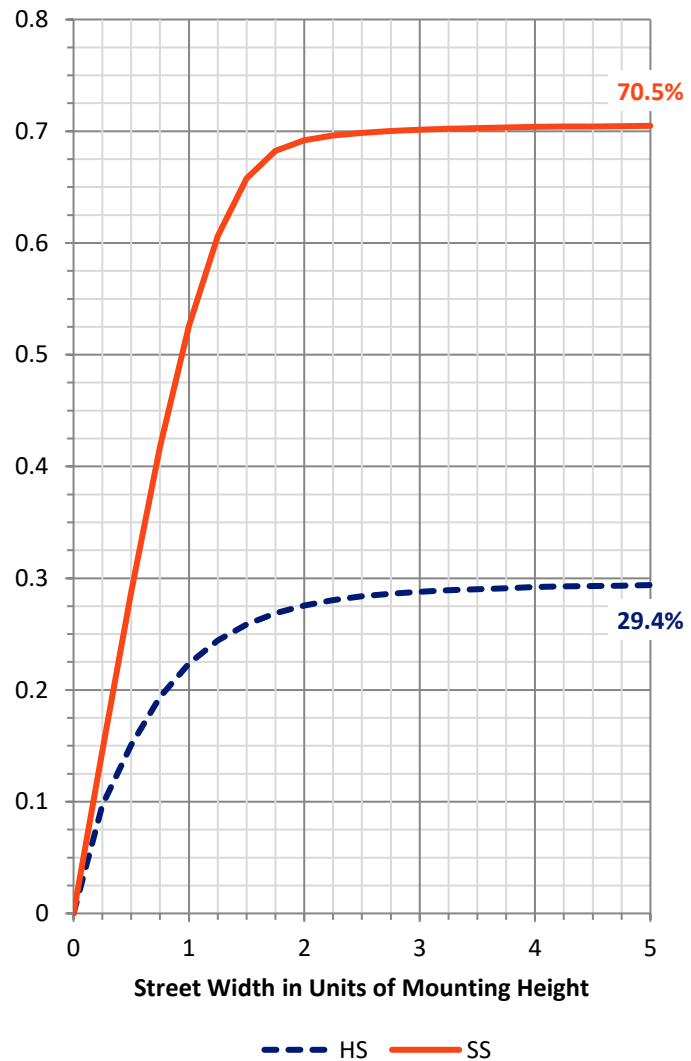
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5410.6 | 0.0 | 5410.6 |
| | % Fixture | 29.5 | 0.0 | 29.5 |
| Street Side | Lumens | 12910.4 | 0.0 | 12910.4 |
| | % Fixture | 70.5 | 0.0 | 70.5 |
| Total | Lumens | 18321.0 | 0.0 | 18321.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 426.2 | 2.3 |
| 10°-20° | 1166.4 | 6.4 |
| 20°-30° | 1995.4 | 10.9 |
| 30°-40° | 3058.3 | 16.7 |
| 40°-50° | 4133.2 | 22.6 |
| 50°-60° | 4747.1 | 25.9 |
| 60°-70° | 2163.9 | 11.8 |
| 70°-80° | 533.5 | 2.9 |
| 80°-90° | 97.0 | 0.5 |
| 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° | 18321.0 | 100.0 |
| 0°-180° | 18321.0 | 100.0 |



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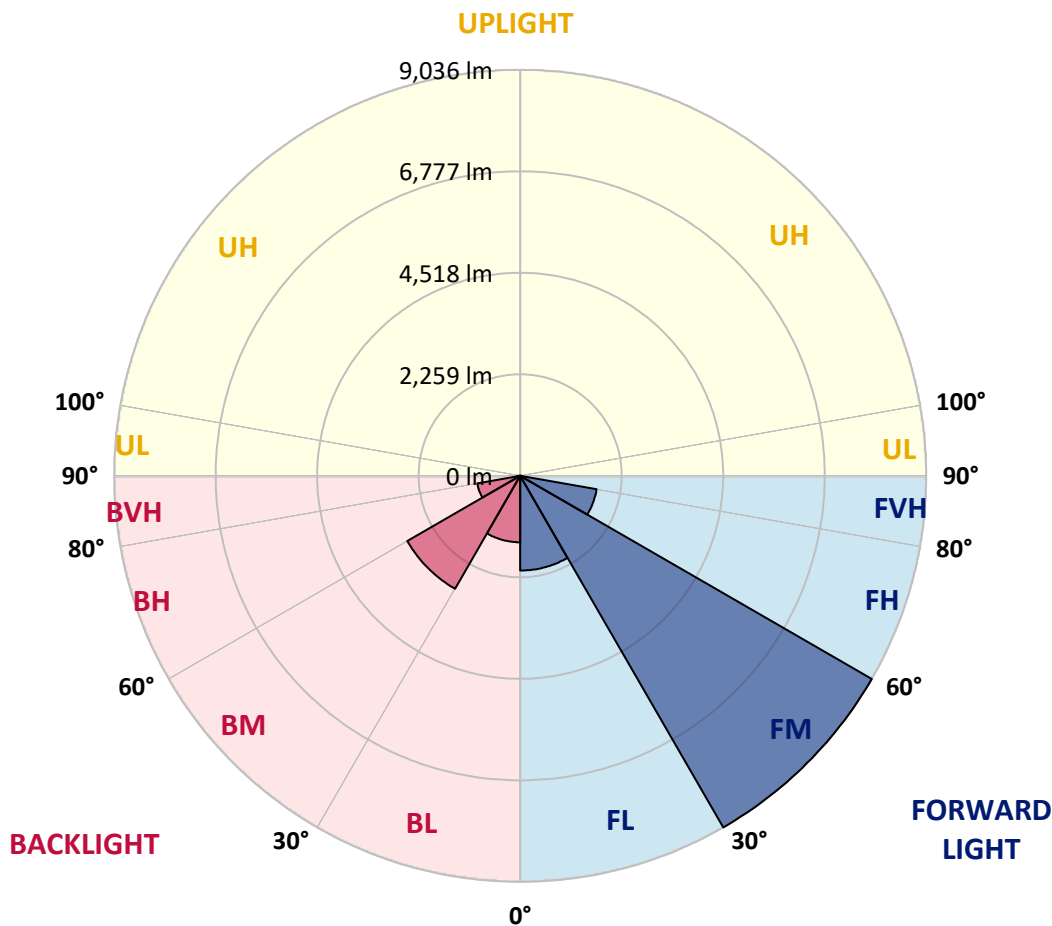
CATALOG NUMBER: GLAN-SA3C-740-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2108.0 | 11.5 | | | |
| FM (30°-60°) | 9036.5 | 49.3 | | | |
| FH (60°-80°) | 1727.3 | 9.4 | | | G1/1800 |
| FVH (80°-90°) | 38.7 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1480.0 | 8.1 | B3/2500 | | |
| BM (30°-60°) | 2902.2 | 15.8 | B3/5000 | | |
| BH (60°-80°) | 970.1 | 5.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 58.2 | 0.3 | | | G1/100 |
| 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° | 55° | 65° | 75° | 79° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0° | 4687.6 | 4687.6 | 4687.6 | 4687.6 | 4687.6 | 4687.6 | 4687.6 | 4687.6 | 4687.6 | 4687.6 | 4687.6 |
| 2.5° | 4459.4 | 4448.0 | 4475.4 | 4495.9 | 4521.0 | 4553.0 | 4568.9 | 4578.1 | 4657.9 | 4637.4 | 4699.0 |
| 5° | 4363.5 | 4333.9 | 4354.4 | 4370.4 | 4413.8 | 4452.6 | 4495.9 | 4564.4 | 4637.4 | 4669.4 | 4744.7 |
| 7.5° | 4279.1 | 4263.1 | 4258.6 | 4270.0 | 4329.3 | 4379.5 | 4454.8 | 4555.3 | 4673.9 | 4726.4 | 4769.8 |
| 10° | 4139.9 | 4117.1 | 4151.3 | 4226.6 | 4242.6 | 4347.6 | 4434.3 | 4578.1 | 4680.8 | 4772.1 | 4899.9 |
| 12.5° | 4078.3 | 4055.5 | 4062.3 | 4105.7 | 4217.5 | 4317.9 | 4420.6 | 4582.6 | 4799.4 | 4836.0 | 5007.1 |
| 15° | 4176.4 | 4153.6 | 4160.4 | 4149.0 | 4256.3 | 4308.8 | 4470.8 | 4673.9 | 4881.6 | 4943.2 | 5125.8 |
| 17.5° | 4400.1 | 4402.3 | 4372.7 | 4347.6 | 4322.5 | 4434.3 | 4546.1 | 4728.7 | 4913.6 | 5068.7 | 5205.7 |
| 20° | 4826.8 | 4751.5 | 4692.2 | 4550.7 | 4511.9 | 4559.8 | 4701.3 | 4877.0 | 5043.6 | 5171.4 | 5326.6 |
| 22.5° | 5155.5 | 5162.3 | 5077.9 | 4845.1 | 4760.6 | 4781.2 | 4902.1 | 5045.9 | 5228.5 | 5319.8 | 5497.8 |
| 25° | 5632.4 | 5584.5 | 5493.2 | 5308.4 | 5119.0 | 5134.9 | 5223.9 | 5354.0 | 5404.2 | 5468.1 | 5662.1 |
| 27.5° | 6068.3 | 6082.0 | 5901.7 | 5728.3 | 5493.2 | 5447.6 | 5607.3 | 5630.2 | 5545.7 | 5666.7 | 5732.9 |
| 30° | 6511.1 | 6499.7 | 6381.0 | 6177.9 | 5947.4 | 5956.5 | 6027.3 | 5915.4 | 5799.0 | 5865.2 | 5910.9 |
| 32.5° | 6969.8 | 6839.7 | 6835.2 | 6652.6 | 6476.9 | 6392.4 | 6305.7 | 6360.5 | 6180.2 | 6193.9 | 6150.5 |
| 35° | 7337.2 | 7355.5 | 7250.5 | 7120.4 | 7033.7 | 6885.4 | 6648.0 | 6746.2 | 6711.9 | 6695.9 | 6508.8 |
| 37.5° | 7604.3 | 7533.5 | 7586.0 | 7542.6 | 7460.5 | 7275.6 | 7029.1 | 7122.7 | 7138.7 | 7216.3 | 6999.5 |
| 40° | 7823.3 | 7793.7 | 7932.9 | 7955.7 | 7898.7 | 7499.3 | 7056.5 | 7335.0 | 7574.6 | 7743.5 | 7485.6 |
| 42.5° | 7928.3 | 7992.2 | 8138.3 | 8314.0 | 8186.2 | 7759.4 | 7198.0 | 7497.0 | 8031.0 | 8298.0 | 7946.6 |
| 45° | 8069.8 | 7987.7 | 8204.5 | 8526.3 | 8528.5 | 7978.5 | 7335.0 | 7716.1 | 8387.0 | 8775.0 | 8261.5 |
| 47.5° | 7926.0 | 7967.1 | 8190.8 | 8599.3 | 8704.3 | 8209.0 | 7704.7 | 8026.5 | 8779.6 | 9124.2 | 8553.6 |
| 50° | 7604.3 | 7686.4 | 8094.9 | 8519.4 | 8836.6 | 8453.2 | 8129.2 | 8361.9 | 9142.5 | 9404.9 | 8601.6 |
| 52.5° | 7268.8 | 7314.4 | 7953.4 | 8581.0 | 8896.0 | 8768.2 | 8697.4 | 8825.2 | 9585.2 | 9722.1 | 8660.9 |
| 55° | 6355.9 | 6572.7 | 7485.6 | 8553.6 | 9185.8 | 9336.4 | 9281.7 | 9468.8 | 10087.3 | 10224.2 | 8985.0 |
| 56° | 5933.7 | 6047.8 | 7204.9 | 8425.8 | 9242.9 | 9544.1 | 9516.7 | 9601.2 | 10354.3 | 10498.1 | 9035.2 |
| 57.5° | 5153.2 | 5162.3 | 6143.7 | 7859.9 | 9028.3 | 9605.7 | 9578.4 | 9644.5 | 10301.8 | 10203.7 | 8594.7 |
| 60° | 3224.7 | 3366.2 | 4181.0 | 6045.5 | 7677.3 | 8912.0 | 9067.1 | 8535.4 | 8686.0 | 8478.3 | 6686.8 |
| 62.5° | 1670.6 | 1650.0 | 2190.9 | 3535.1 | 5096.1 | 6381.0 | 6524.8 | 6499.7 | 6266.9 | 5963.4 | 4368.1 |
| 65° | 833.0 | 837.6 | 1145.7 | 1750.4 | 2610.8 | 3341.1 | 3742.8 | 3786.2 | 3167.7 | 2914.4 | 2072.2 |
| 67.5° | 604.8 | 627.6 | 823.9 | 1070.3 | 1230.1 | 1376.2 | 1686.5 | 1654.6 | 1252.9 | 1191.3 | 1104.6 |
| 70° | 470.1 | 490.7 | 668.7 | 817.0 | 741.7 | 741.7 | 807.9 | 835.3 | 892.3 | 917.4 | 947.1 |
| 72.5° | 342.3 | 358.3 | 511.2 | 563.7 | 486.1 | 522.6 | 604.8 | 668.7 | 728.0 | 737.1 | 771.4 |
| 75° | 235.1 | 248.8 | 335.5 | 310.4 | 292.1 | 360.6 | 442.7 | 502.1 | 545.4 | 568.3 | 588.8 |
| 77.5° | 152.9 | 157.5 | 191.7 | 162.0 | 187.1 | 232.8 | 287.6 | 337.8 | 381.1 | 399.4 | 403.9 |
| 80° | 68.5 | 75.3 | 82.2 | 102.7 | 130.1 | 166.6 | 205.4 | 246.5 | 273.9 | 280.7 | 294.4 |
| 82.5° | 38.8 | 38.8 | 50.2 | 73.0 | 95.9 | 121.0 | 148.3 | 178.0 | 210.0 | 216.8 | 214.5 |
| 85° | 20.5 | 20.5 | 29.7 | 43.4 | 59.3 | 70.7 | 68.5 | 70.7 | 75.3 | 86.7 | 84.4 |
| 87.5° | 6.8 | 6.8 | 9.1 | 9.1 | 11.4 | 13.7 | 11.4 | 16.0 | 20.5 | 20.5 | 20.5 |
| 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-SA3C-740-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4687.6 | 4687.6 | 4687.6 | 4687.6 | 4687.6 | 4687.6 | 4687.6 | 4687.6 | 4687.6 | 4687.6 | 4687.6 |
| 2.5° | 4680.8 | 4701.3 | 4673.9 | 4733.3 | 4733.3 | 4721.9 | 4664.8 | 4683.1 | 4696.7 | 4696.7 | 4708.2 |
| 5° | 4769.8 | 4762.9 | 4781.2 | 4710.4 | 4667.1 | 4651.1 | 4557.5 | 4511.9 | 4473.1 | 4470.8 | 4436.6 |
| 7.5° | 4820.0 | 4801.7 | 4794.9 | 4742.4 | 4550.7 | 4434.3 | 4233.5 | 4117.1 | 4092.0 | 4003.0 | 4037.2 |
| 10° | 4899.9 | 4934.1 | 4899.9 | 4614.6 | 4347.6 | 4080.6 | 3884.3 | 3704.0 | 3633.2 | 3576.2 | 3542.0 |
| 12.5° | 5064.2 | 5048.2 | 4849.7 | 4464.0 | 4089.7 | 3772.5 | 3480.3 | 3290.9 | 3220.2 | 3170.0 | 3165.4 |
| 15° | 5203.4 | 5123.5 | 4820.0 | 4226.6 | 3688.0 | 3350.3 | 3110.6 | 2976.0 | 2944.0 | 2948.6 | 2969.1 |
| 17.5° | 5251.3 | 5196.5 | 4664.8 | 3980.1 | 3389.1 | 2992.0 | 2880.1 | 2859.6 | 2889.3 | 2923.5 | 2932.6 |
| 20° | 5326.6 | 5239.9 | 4600.9 | 3644.7 | 3019.3 | 2768.3 | 2761.4 | 2834.5 | 2889.3 | 2939.5 | 2946.3 |
| 22.5° | 5484.1 | 5265.0 | 4393.2 | 3327.4 | 2766.0 | 2702.1 | 2768.3 | 2829.9 | 2914.4 | 2955.4 | 2918.9 |
| 25° | 5529.7 | 5210.2 | 4101.1 | 2946.3 | 2606.3 | 2661.0 | 2731.8 | 2816.2 | 2875.6 | 2898.4 | 2914.4 |
| 27.5° | 5568.5 | 5125.8 | 3706.3 | 2693.0 | 2556.1 | 2658.8 | 2731.8 | 2802.5 | 2834.5 | 2855.0 | 2873.3 |
| 30° | 5678.1 | 5100.7 | 3363.9 | 2524.1 | 2524.1 | 2613.1 | 2706.7 | 2724.9 | 2768.3 | 2793.4 | 2825.4 |
| 32.5° | 5732.9 | 4927.2 | 3012.5 | 2416.8 | 2492.2 | 2635.9 | 2642.8 | 2677.0 | 2679.3 | 2699.8 | 2665.6 |
| 35° | 5876.6 | 4804.0 | 2686.1 | 2339.2 | 2505.8 | 2613.1 | 2647.3 | 2626.8 | 2515.0 | 2460.2 | 2471.6 |
| 37.5° | 5981.6 | 4742.4 | 2451.1 | 2330.1 | 2508.1 | 2638.2 | 2656.5 | 2501.3 | 2384.9 | 2293.6 | 2316.4 |
| 40° | 6264.6 | 4589.5 | 2273.1 | 2314.1 | 2528.7 | 2665.6 | 2615.4 | 2446.5 | 2236.5 | 2143.0 | 2127.0 |
| 42.5° | 6481.4 | 4479.9 | 2161.2 | 2295.9 | 2544.6 | 2704.4 | 2594.9 | 2337.0 | 2122.4 | 2035.7 | 2058.5 |
| 45° | 6732.5 | 4454.8 | 2101.9 | 2300.4 | 2572.0 | 2724.9 | 2569.7 | 2252.5 | 2024.3 | 1990.1 | 1983.2 |
| 47.5° | 6821.5 | 4274.5 | 2038.0 | 2261.7 | 2565.2 | 2718.1 | 2485.3 | 2188.6 | 1987.8 | 1992.4 | 2010.6 |
| 50° | 6673.1 | 4089.7 | 1990.1 | 2181.8 | 2519.5 | 2656.5 | 2352.9 | 2104.2 | 1967.2 | 2024.3 | 2056.3 |
| 52.5° | 6483.7 | 3900.3 | 1891.9 | 2074.5 | 2426.0 | 2560.6 | 2291.3 | 2099.6 | 1946.7 | 1928.5 | 1935.3 |
| 55° | 6540.8 | 3745.1 | 1755.0 | 1928.5 | 2275.3 | 2382.6 | 2222.9 | 2056.3 | 1896.5 | 1828.0 | 1850.9 |
| 56° | 6355.9 | 3585.3 | 1666.0 | 1837.2 | 2172.6 | 2268.5 | 2188.6 | 2017.5 | 1855.4 | 1809.8 | 1809.8 |
| 57.5° | 5833.3 | 3049.0 | 1549.6 | 1691.1 | 1955.8 | 2069.9 | 2122.4 | 1994.6 | 1809.8 | 1729.9 | 1732.2 |
| 60° | 4301.9 | 2168.1 | 1389.9 | 1490.3 | 1620.4 | 1711.6 | 1955.8 | 1930.7 | 1695.7 | 1640.9 | 1620.4 |
| 62.5° | 2651.9 | 1583.8 | 1275.7 | 1314.5 | 1380.7 | 1456.0 | 1707.1 | 1748.2 | 1574.7 | 1515.4 | 1501.7 |
| 65° | 1485.7 | 1211.8 | 1189.0 | 1205.0 | 1236.9 | 1275.7 | 1417.2 | 1508.5 | 1389.9 | 1298.6 | 1294.0 |
| 67.5° | 1086.3 | 1084.0 | 1102.3 | 1116.0 | 1129.7 | 1129.7 | 1163.9 | 1200.4 | 1184.5 | 1111.4 | 1104.6 |
| 70° | 965.4 | 972.2 | 985.9 | 988.2 | 992.8 | 976.8 | 949.4 | 938.0 | 956.2 | 910.6 | 901.5 |
| 72.5° | 796.5 | 819.3 | 835.3 | 837.6 | 812.5 | 791.9 | 755.4 | 716.6 | 702.9 | 693.8 | 691.5 |
| 75° | 611.6 | 627.6 | 634.4 | 632.2 | 623.0 | 593.4 | 550.0 | 511.2 | 486.1 | 458.7 | 472.4 |
| 77.5° | 413.1 | 435.9 | 447.3 | 447.3 | 433.6 | 388.0 | 367.4 | 337.8 | 312.7 | 283.0 | 287.6 |
| 80° | 289.8 | 305.8 | 324.1 | 321.8 | 299.0 | 276.1 | 246.5 | 219.1 | 198.6 | 175.7 | 173.4 |
| 82.5° | 216.8 | 225.9 | 235.1 | 230.5 | 214.5 | 191.7 | 171.2 | 146.1 | 123.2 | 107.3 | 107.3 |
| 85° | 77.6 | 84.4 | 102.7 | 107.3 | 116.4 | 116.4 | 98.1 | 82.2 | 66.2 | 54.8 | 54.8 |
| 87.5° | 22.8 | 22.8 | 25.1 | 25.1 | 22.8 | 25.1 | 20.5 | 22.8 | 25.1 | 16.0 | 16.0 |
| 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)