

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: P454013

Luminaire Tested: **GLAN-SA5A-750-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5A-750-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23436 lumens
Efficiency: N/A
Efficacy: 152.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

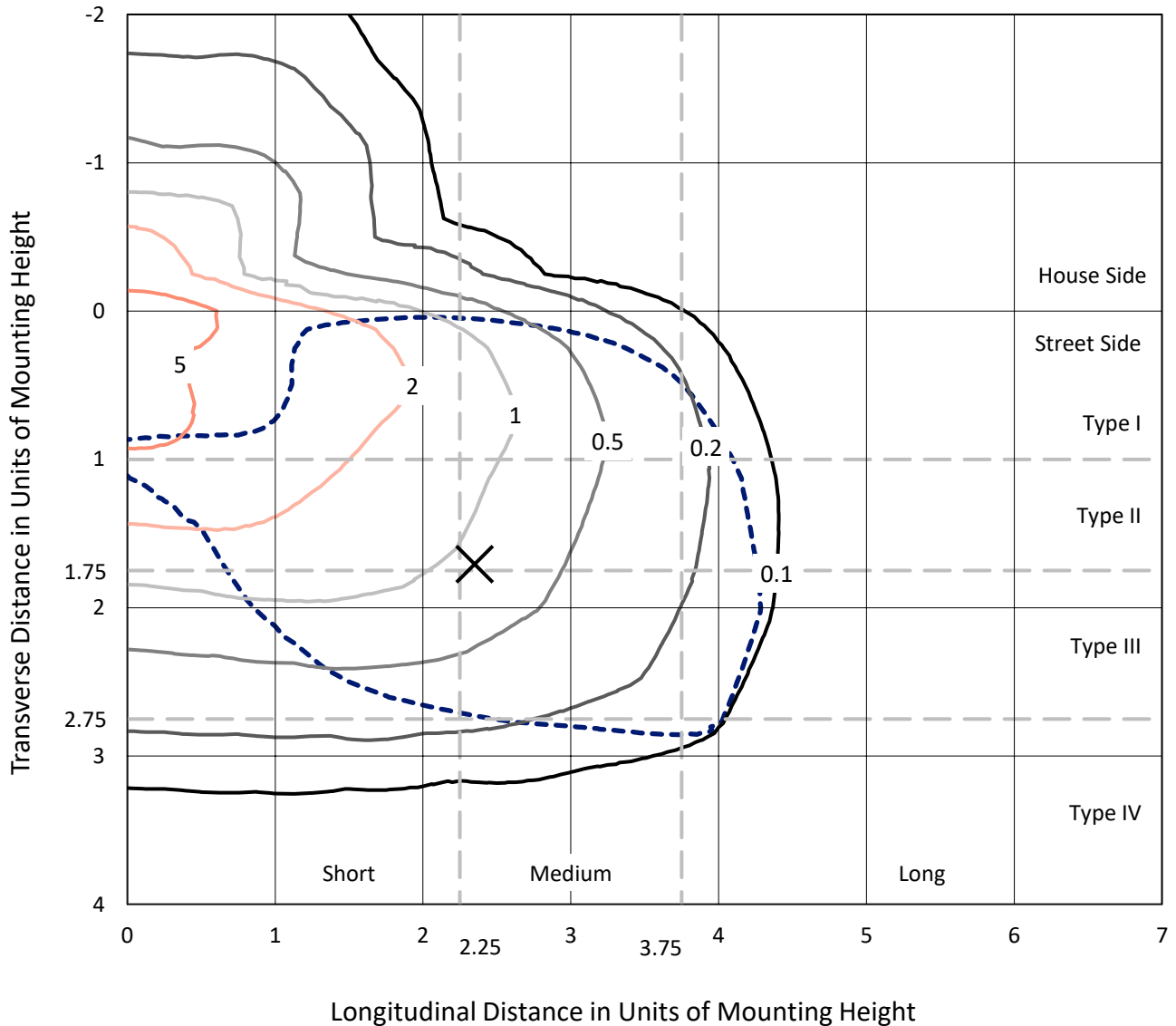
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

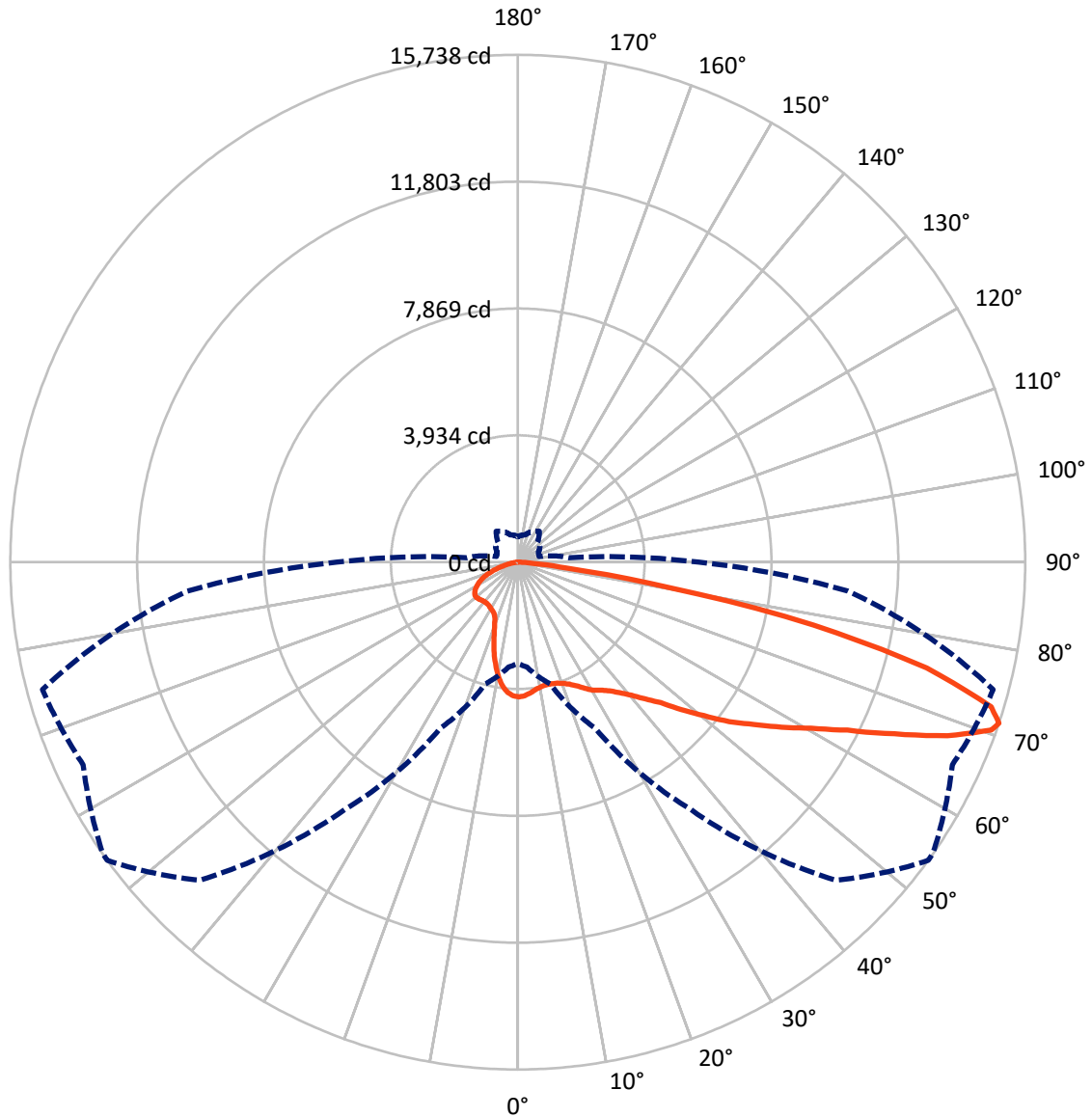
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



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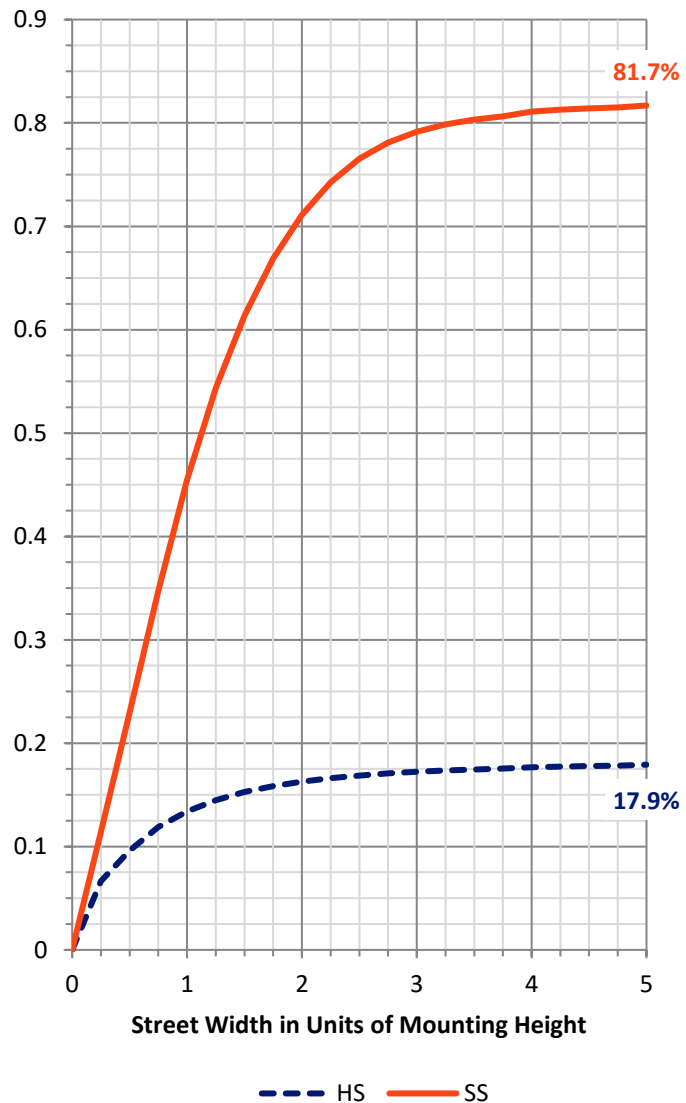
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4231.2 | 0.0 | 4231.2 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 19204.8 | 0.0 | 19204.8 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 23436.0 | 0.0 | 23436.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 372.6 | 1.6 |
| 10°-20° | 983.9 | 4.2 |
| 20°-30° | 1638.2 | 7.0 |
| 30°-40° | 2422.4 | 10.3 |
| 40°-50° | 3412.1 | 14.6 |
| 50°-60° | 4568.9 | 19.5 |
| 60°-70° | 5758.7 | 24.6 |
| 70°-80° | 3933.2 | 16.8 |
| 80°-90° | 345.9 | 1.5 |
| 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° | 23436.0 | 100.0 |
| 0°-180° | 23436.0 | 100.0 |



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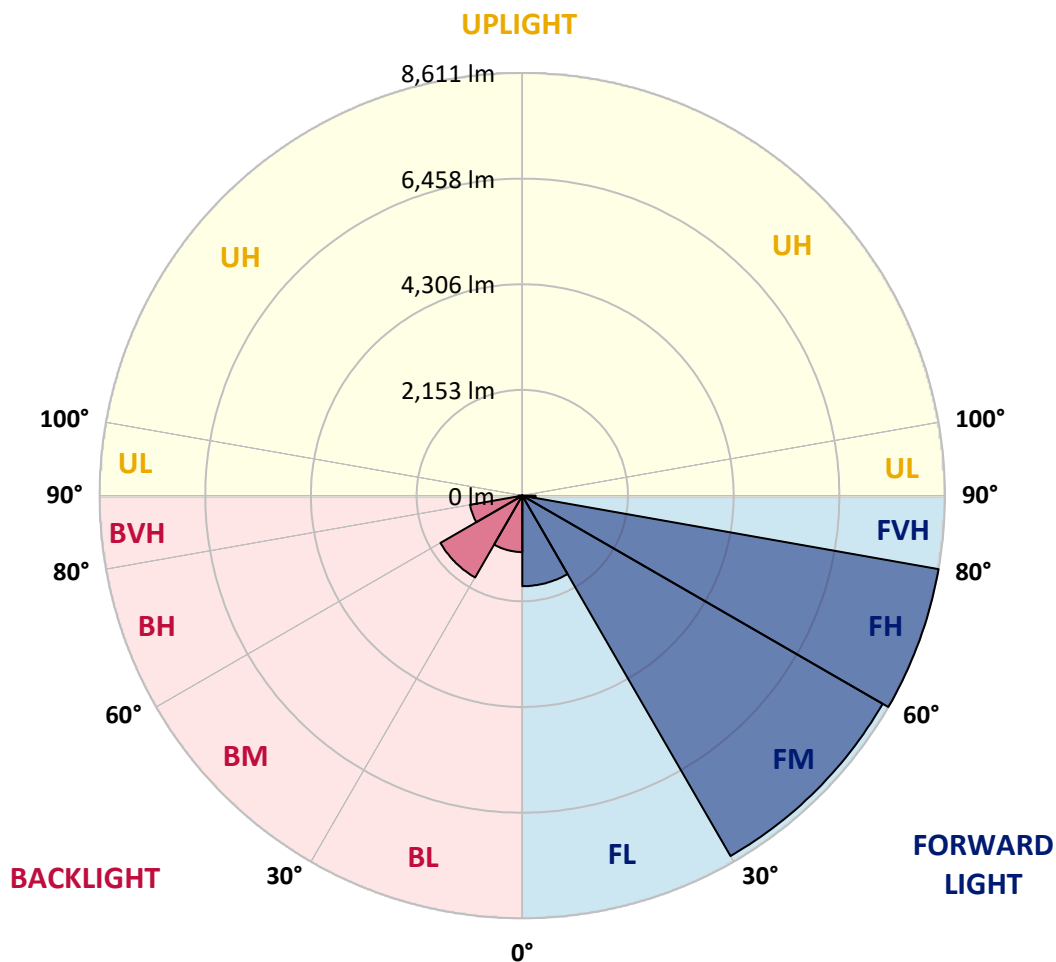
CATALOG NUMBER: GLAN-SA5A-750-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1844.8 | 7.9 | | | |
| FM (30°-60°) | 8478.3 | 36.2 | | | |
| FH (60°-80°) | 8611.3 | 36.7 | | | G4/12000 |
| FVH (80°-90°) | 270.4 | 1.2 | | | G3/500 |
| BL (0°-30°) | 1150.0 | 4.9 | B3/2500 | | |
| BM (30°-60°) | 1925.1 | 8.2 | B2/2500 | | |
| BH (60°-80°) | 1080.6 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 75.5 | 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-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4181.3 | 4181.3 | 4181.3 | 4181.3 | 4181.3 | 4181.3 | 4181.3 | 4181.3 | 4181.3 | 4181.3 | 4181.3 |
| 2.5° | 4039.5 | 4058.5 | 4063.6 | 4076.3 | 4102.8 | 4124.4 | 4145.9 | 4143.4 | 4173.7 | 4186.4 | 4197.8 |
| 5° | 3859.8 | 3864.8 | 3883.8 | 3909.2 | 3956.0 | 4015.5 | 4073.7 | 4075.0 | 4149.7 | 4209.2 | 4238.3 |
| 7.5° | 3728.1 | 3744.6 | 3757.2 | 3783.8 | 3833.2 | 3897.8 | 3990.2 | 3997.8 | 4130.7 | 4248.4 | 4310.5 |
| 10° | 3642.0 | 3661.0 | 3675.0 | 3707.9 | 3757.2 | 3829.4 | 3929.4 | 3943.3 | 4116.8 | 4310.5 | 4419.3 |
| 12.5° | 3563.6 | 3582.5 | 3595.2 | 3638.3 | 3702.8 | 3791.4 | 3904.1 | 3920.6 | 4121.8 | 4382.6 | 4538.3 |
| 15° | 3611.7 | 3626.9 | 3621.8 | 3634.5 | 3677.5 | 3778.8 | 3914.2 | 3930.7 | 4140.8 | 4452.2 | 4656.0 |
| 17.5° | 3825.6 | 3838.3 | 3796.5 | 3748.4 | 3728.1 | 3802.8 | 3945.9 | 3963.6 | 4178.8 | 4524.4 | 4776.3 |
| 20° | 4140.8 | 4175.0 | 4083.9 | 3976.3 | 3878.8 | 3888.9 | 4011.7 | 4030.7 | 4232.0 | 4596.6 | 4899.1 |
| 22.5° | 4551.0 | 4576.3 | 4464.9 | 4287.7 | 4107.9 | 4015.5 | 4110.4 | 4121.8 | 4311.7 | 4690.2 | 5033.3 |
| 25° | 5033.3 | 5048.5 | 4894.0 | 4666.2 | 4406.7 | 4232.0 | 4245.9 | 4266.1 | 4443.4 | 4796.6 | 5152.3 |
| 27.5° | 5501.7 | 5549.8 | 5371.3 | 5092.8 | 4751.0 | 4459.8 | 4432.0 | 4444.6 | 4586.4 | 4856.1 | 5234.6 |
| 30° | 6057.4 | 6053.6 | 5865.0 | 5542.2 | 5104.2 | 4708.0 | 4607.9 | 4605.4 | 4663.6 | 4885.2 | 5294.1 |
| 32.5° | 6500.5 | 6552.4 | 6367.6 | 6015.6 | 5508.0 | 4964.9 | 4729.5 | 4724.4 | 4723.1 | 4935.8 | 5382.7 |
| 35° | 7004.3 | 7011.9 | 6842.3 | 6487.8 | 5944.8 | 5287.7 | 4899.1 | 4873.8 | 4844.7 | 5044.7 | 5502.9 |
| 37.5° | 7455.0 | 7490.4 | 7334.7 | 6937.2 | 6373.9 | 5623.2 | 5132.0 | 5115.6 | 5027.0 | 5233.3 | 5695.4 |
| 40° | 7806.9 | 7833.5 | 7739.8 | 7361.3 | 6796.7 | 5985.3 | 5428.3 | 5397.9 | 5290.3 | 5542.2 | 5952.3 |
| 42.5° | 7922.1 | 7976.6 | 8013.3 | 7827.2 | 7282.8 | 6414.4 | 5792.8 | 5754.9 | 5672.6 | 6010.6 | 6248.6 |
| 45° | 7931.0 | 8017.1 | 8210.7 | 8219.6 | 7771.5 | 6928.4 | 6218.2 | 6191.6 | 6185.3 | 6610.6 | 6665.1 |
| 47.5° | 7863.9 | 7951.2 | 8276.6 | 8452.5 | 8207.0 | 7447.4 | 6832.2 | 6790.4 | 6794.2 | 7352.5 | 7132.2 |
| 50° | 7701.8 | 7805.7 | 8200.6 | 8601.9 | 8547.5 | 7986.7 | 7480.3 | 7466.4 | 7544.9 | 8199.4 | 7617.0 |
| 52.5° | 7396.8 | 7522.1 | 8122.1 | 8695.6 | 8800.7 | 8451.3 | 8217.1 | 8177.8 | 8376.6 | 9118.4 | 8147.5 |
| 55° | 6552.4 | 6741.0 | 7834.8 | 8747.5 | 9041.2 | 8895.6 | 8880.4 | 8951.3 | 9214.6 | 10121.0 | 8731.0 |
| 57.5° | 6111.9 | 6253.6 | 7210.7 | 8756.4 | 9345.0 | 9412.1 | 9655.2 | 9672.9 | 10133.7 | 11185.7 | 9390.6 |
| 60° | 5871.3 | 5996.7 | 6868.9 | 8698.1 | 9769.1 | 10051.4 | 10447.6 | 10510.9 | 11031.2 | 12338.9 | 10074.2 |
| 62.5° | 5661.2 | 5768.8 | 6663.8 | 8496.8 | 10247.6 | 10999.6 | 11474.3 | 11504.7 | 12050.3 | 13612.4 | 10748.9 |
| 65° | 5166.2 | 5289.0 | 6251.1 | 8295.6 | 10660.3 | 12184.5 | 12836.4 | 12801.0 | 13135.2 | 14711.2 | 11171.7 |
| 67.5° | 4499.1 | 4654.8 | 5480.2 | 7600.6 | 10864.1 | 13479.5 | 14370.7 | 14326.4 | 14206.1 | 15431.5 | 11293.3 |
| 70° | 3647.1 | 3730.7 | 4494.0 | 6399.2 | 10050.1 | 14159.3 | 15582.2 | 15535.4 | 14869.5 | 15526.5 | 10718.5 |
| 71° | 3138.2 | 3268.6 | 3913.0 | 5684.0 | 9372.9 | 13951.7 | 15737.9 | 15725.2 | 14870.7 | 15264.4 | 10285.6 |
| 72.5° | 2449.6 | 2529.3 | 3099.0 | 4404.1 | 7966.4 | 12771.9 | 15353.1 | 15401.2 | 14547.9 | 14536.5 | 9393.1 |
| 75° | 1549.5 | 1584.9 | 1944.5 | 2592.6 | 4371.2 | 9045.0 | 13106.1 | 13236.4 | 12917.4 | 11898.4 | 6985.3 |
| 77.5° | 900.1 | 945.6 | 1164.6 | 1528.0 | 1888.8 | 4909.2 | 9377.9 | 9519.7 | 8975.4 | 6551.1 | 2859.7 |
| 80° | 524.1 | 574.7 | 767.1 | 887.4 | 867.2 | 1821.7 | 4775.0 | 5016.8 | 3886.4 | 1654.6 | 802.6 |
| 82.5° | 291.2 | 325.3 | 539.3 | 540.5 | 462.1 | 595.0 | 1502.6 | 1572.3 | 1108.9 | 667.1 | 327.9 |
| 85° | 211.4 | 239.3 | 348.1 | 315.2 | 221.5 | 255.7 | 522.8 | 548.1 | 448.1 | 281.0 | 106.3 |
| 87.5° | 74.7 | 106.3 | 191.2 | 151.9 | 60.8 | 53.2 | 150.6 | 122.8 | 113.9 | 78.5 | 24.1 |
| 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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CATALOG NUMBER: GLAN-SA5A-750-U-T3R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4181.3 | 4181.3 | 4181.3 | 4181.3 | 4181.3 | 4181.3 | 4181.3 | 4181.3 | 4181.3 | 4181.3 | 4181.3 |
| 2.5° | 4204.1 | 4206.6 | 4194.0 | 4171.2 | 4148.4 | 4119.3 | 4086.4 | 4061.1 | 4049.7 | 4048.4 | 4047.1 |
| 5° | 4249.7 | 4256.0 | 4207.9 | 4137.0 | 4058.5 | 3962.3 | 3880.0 | 3786.4 | 3762.3 | 3724.3 | 3735.7 |
| 7.5° | 4323.1 | 4319.3 | 4224.4 | 4073.7 | 3890.2 | 3686.4 | 3514.2 | 3414.2 | 3310.4 | 3281.3 | 3282.5 |
| 10° | 4428.2 | 4404.1 | 4224.4 | 3944.6 | 3638.3 | 3335.7 | 3095.2 | 2943.3 | 2861.0 | 2792.6 | 2767.3 |
| 12.5° | 4539.6 | 4478.8 | 4183.9 | 3763.6 | 3314.2 | 2943.3 | 2685.0 | 2479.9 | 2426.8 | 2371.1 | 2372.3 |
| 15° | 4645.9 | 4544.6 | 4104.1 | 3509.1 | 2964.8 | 2524.2 | 2273.6 | 2150.8 | 2134.3 | 2140.7 | 2139.4 |
| 17.5° | 4742.1 | 4591.5 | 3982.6 | 3225.6 | 2557.2 | 2164.7 | 2031.8 | 2040.7 | 2085.0 | 2116.6 | 2120.4 |
| 20° | 4839.6 | 4619.3 | 3801.6 | 2845.8 | 2172.3 | 1947.0 | 1952.0 | 2021.7 | 2088.8 | 2131.8 | 2138.1 |
| 22.5° | 4932.0 | 4632.0 | 3588.9 | 2478.7 | 1893.8 | 1854.6 | 1929.3 | 2003.9 | 2069.8 | 2111.6 | 2117.9 |
| 25° | 4992.8 | 4602.9 | 3287.6 | 2095.1 | 1757.1 | 1821.7 | 1900.1 | 1963.4 | 2019.1 | 2062.2 | 2072.3 |
| 27.5° | 5009.2 | 4509.2 | 2914.1 | 1784.9 | 1693.8 | 1790.0 | 1862.2 | 1909.0 | 1952.0 | 1992.6 | 2000.2 |
| 30° | 5000.4 | 4371.2 | 2504.0 | 1602.7 | 1657.1 | 1753.3 | 1809.0 | 1843.2 | 1895.1 | 1926.7 | 1933.1 |
| 32.5° | 4986.5 | 4210.4 | 2076.1 | 1505.2 | 1626.7 | 1719.1 | 1752.0 | 1782.4 | 1781.1 | 1768.5 | 1777.3 |
| 35° | 4991.5 | 4018.0 | 1729.2 | 1446.9 | 1600.1 | 1693.8 | 1721.6 | 1683.7 | 1574.8 | 1569.7 | 1564.7 |
| 37.5° | 5018.1 | 3828.1 | 1477.3 | 1406.4 | 1586.2 | 1690.0 | 1705.2 | 1530.5 | 1434.3 | 1390.0 | 1378.6 |
| 40° | 5086.5 | 3606.6 | 1311.5 | 1376.1 | 1584.9 | 1719.1 | 1630.5 | 1453.3 | 1268.5 | 1182.4 | 1176.0 |
| 42.5° | 5177.6 | 3388.9 | 1210.2 | 1357.1 | 1600.1 | 1763.4 | 1600.1 | 1344.4 | 1143.1 | 1092.5 | 1084.9 |
| 45° | 5313.1 | 3139.5 | 1154.5 | 1348.2 | 1622.9 | 1779.9 | 1590.0 | 1264.7 | 1092.5 | 1052.0 | 1052.0 |
| 47.5° | 5466.2 | 2901.5 | 1124.1 | 1341.9 | 1652.0 | 1768.5 | 1500.1 | 1239.3 | 1068.4 | 1073.5 | 1097.6 |
| 50° | 5618.1 | 2695.1 | 1101.3 | 1327.9 | 1677.3 | 1762.2 | 1463.4 | 1238.1 | 1074.8 | 1139.3 | 1182.4 |
| 52.5° | 5794.1 | 2549.6 | 1073.5 | 1305.2 | 1677.3 | 1721.6 | 1452.0 | 1263.4 | 1092.5 | 1111.5 | 1130.5 |
| 55° | 6006.8 | 2504.0 | 1038.1 | 1255.8 | 1647.0 | 1620.4 | 1445.7 | 1300.1 | 1105.1 | 1060.8 | 1068.4 |
| 57.5° | 6287.8 | 2577.4 | 1003.9 | 1193.8 | 1577.3 | 1515.3 | 1443.1 | 1310.2 | 1076.0 | 1039.3 | 1031.7 |
| 60° | 6614.4 | 2723.0 | 993.7 | 1130.5 | 1482.4 | 1425.4 | 1428.0 | 1281.1 | 1035.5 | 997.5 | 1003.9 |
| 62.5° | 6843.6 | 2810.3 | 987.4 | 1082.4 | 1378.6 | 1326.7 | 1391.2 | 1245.7 | 1017.8 | 984.9 | 991.2 |
| 65° | 6843.6 | 2704.0 | 929.2 | 1008.9 | 1244.4 | 1207.7 | 1346.9 | 1201.4 | 995.0 | 957.0 | 950.7 |
| 67.5° | 6584.0 | 2393.9 | 840.6 | 898.8 | 1096.3 | 1072.2 | 1284.9 | 1148.2 | 960.8 | 931.7 | 916.5 |
| 70° | 5908.0 | 1815.3 | 729.2 | 769.7 | 908.9 | 930.5 | 1205.2 | 1076.0 | 903.9 | 868.4 | 845.6 |
| 71° | 5610.6 | 1581.1 | 682.3 | 703.9 | 836.8 | 868.4 | 1167.2 | 1045.6 | 878.5 | 827.9 | 787.4 |
| 72.5° | 5037.1 | 1331.7 | 611.4 | 620.3 | 715.2 | 772.2 | 1087.4 | 987.4 | 830.4 | 758.3 | 712.7 |
| 75° | 3826.9 | 972.2 | 492.4 | 487.4 | 529.2 | 612.7 | 920.3 | 879.8 | 727.9 | 630.4 | 603.8 |
| 77.5° | 1653.3 | 529.2 | 368.4 | 372.2 | 359.5 | 464.6 | 724.1 | 755.8 | 624.1 | 512.7 | 488.6 |
| 80° | 501.3 | 305.1 | 251.9 | 257.0 | 240.5 | 311.4 | 510.2 | 592.4 | 501.3 | 398.8 | 365.9 |
| 82.5° | 257.0 | 182.3 | 172.2 | 169.6 | 153.2 | 176.0 | 308.9 | 405.1 | 358.3 | 249.4 | 220.3 |
| 85° | 111.4 | 97.5 | 84.8 | 82.3 | 72.2 | 63.3 | 110.1 | 202.5 | 189.9 | 139.3 | 132.9 |
| 87.5° | 27.9 | 25.3 | 16.5 | 15.2 | 8.9 | 1.3 | 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)