

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: P454707

Luminaire Tested: **GLAN-SA5D-750-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5D-750-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38418 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

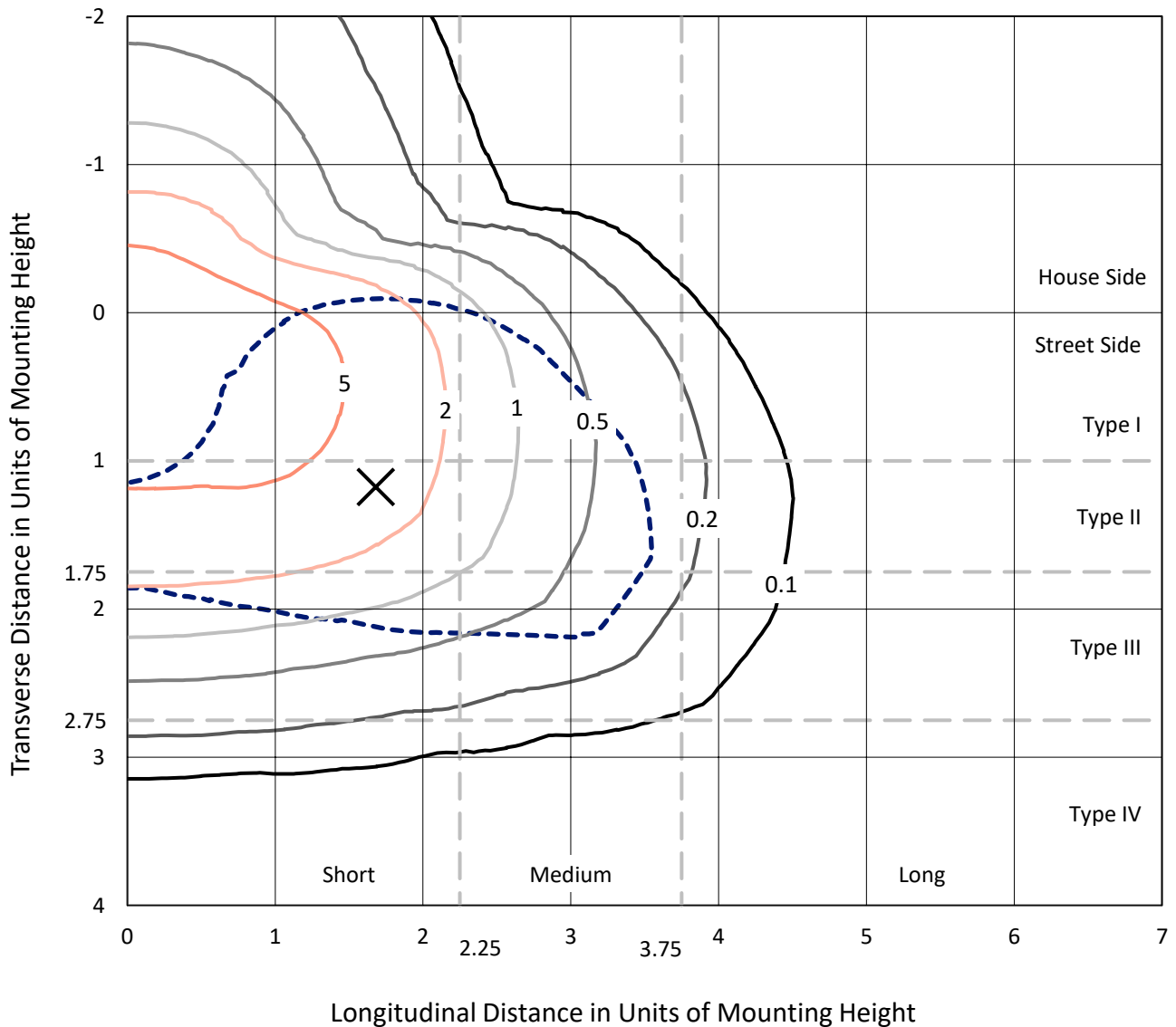
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

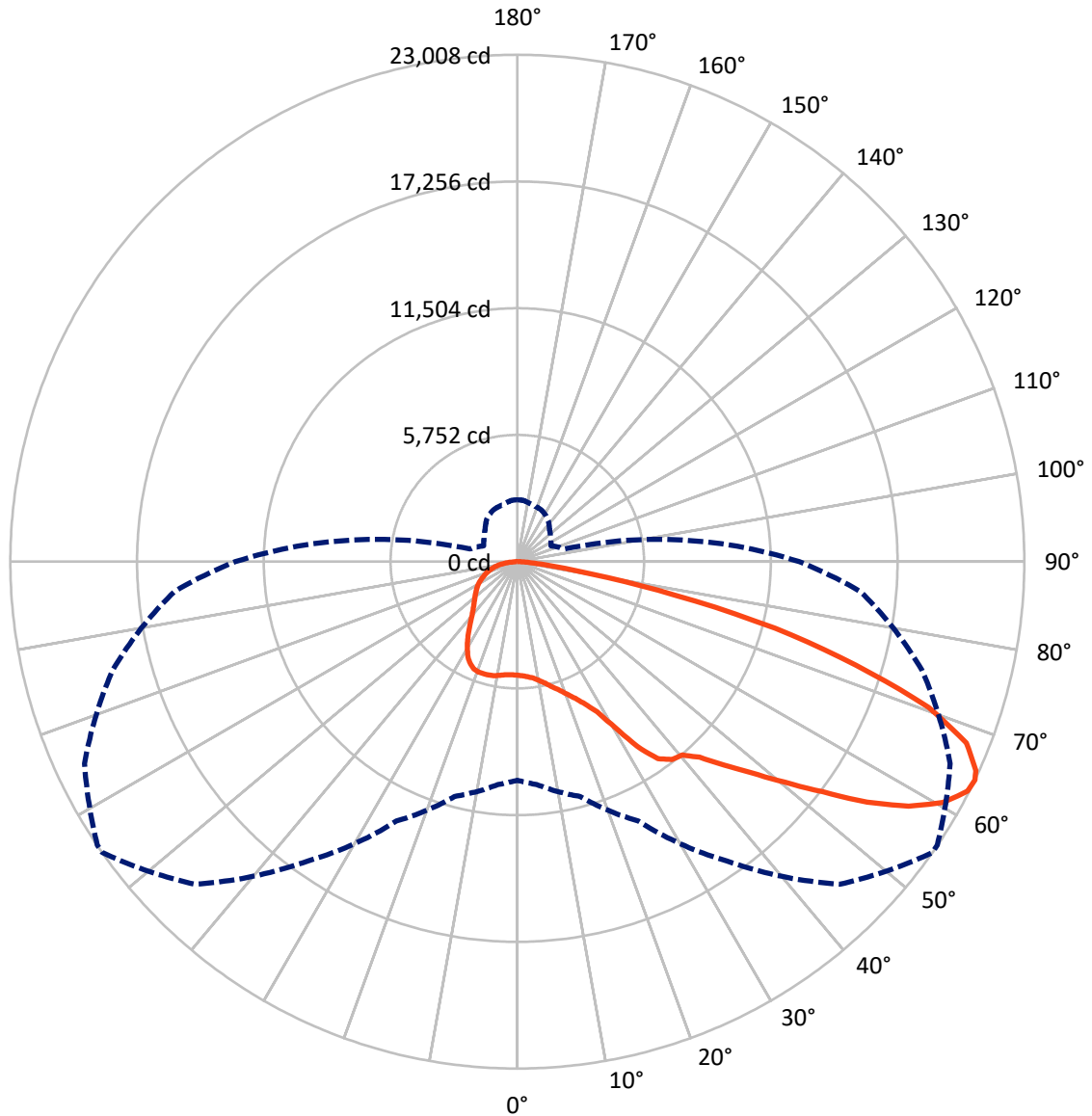
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9332.5 | 0.0 | 9332.5 |
| | % Fixture | 24.3 | 0.0 | 24.3 |
| Street Side | Lumens | 29085.5 | 0.0 | 29085.5 |
| | % Fixture | 75.7 | 0.0 | 75.7 |
| Total | Lumens | 38418.0 | 0.0 | 38418.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 501.4 | 1.3 |
| 10°-20° | 1582.1 | 4.1 |
| 20°-30° | 2816.5 | 7.3 |
| 30°-40° | 4333.5 | 11.3 |
| 40°-50° | 6143.1 | 16.0 |
| 50°-60° | 8891.9 | 23.1 |
| 60°-70° | 9202.2 | 24.0 |
| 70°-80° | 4309.4 | 11.2 |
| 80°-90° | 638.0 | 1.7 |
| 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° | 38418.0 | 100.0 |
| 0°-180° | 38418.0 | 100.0 |

Coefficient of Utilization



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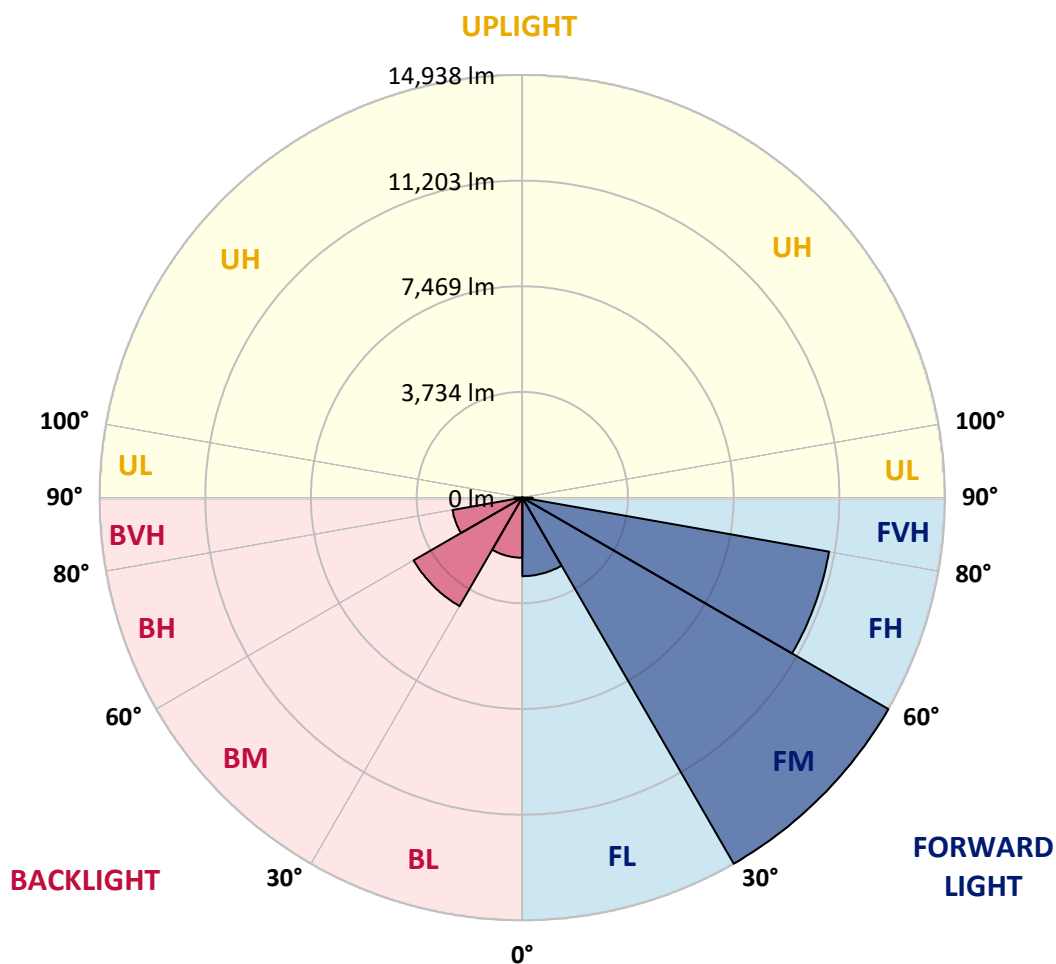
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2774.4 | 7.2 | | | |
| FM | (30°-60°) | 14938.0 | 38.9 | | | |
| FH | (60°-80°) | 11007.9 | 28.7 | | | G4/12000 |
| FVH | (80°-90°) | 365.3 | 1.0 | | | G3/500 |
| BL | (0°-30°) | 2125.6 | 5.5 | B3/2500 | | |
| BM | (30°-60°) | 4430.5 | 11.5 | B3/5000 | | |
| BH | (60°-80°) | 2503.7 | 6.5 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 272.7 | 0.7 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5154.5 | 5154.5 | 5154.5 | 5154.5 | 5154.5 | 5154.5 | 5154.5 | 5154.5 | 5154.5 | 5154.5 | 5154.5 |
| 2.5° | 5212.4 | 5210.2 | 5216.6 | 5210.2 | 5214.5 | 5199.5 | 5193.1 | 5197.4 | 5190.9 | 5180.2 | 5161.0 |
| 5° | 5276.6 | 5274.5 | 5276.6 | 5268.0 | 5272.3 | 5263.8 | 5248.8 | 5253.0 | 5242.3 | 5218.8 | 5190.9 |
| 7.5° | 5385.8 | 5377.2 | 5377.2 | 5375.1 | 5366.5 | 5353.7 | 5343.0 | 5338.7 | 5328.0 | 5298.0 | 5255.2 |
| 10° | 5527.2 | 5527.2 | 5529.3 | 5512.2 | 5522.9 | 5499.3 | 5488.6 | 5486.5 | 5450.1 | 5411.5 | 5351.6 |
| 12.5° | 5713.5 | 5724.2 | 5717.7 | 5709.2 | 5704.9 | 5696.3 | 5659.9 | 5668.5 | 5627.8 | 5561.4 | 5488.6 |
| 15° | 5944.7 | 5961.9 | 5951.2 | 5946.9 | 5936.2 | 5904.1 | 5889.1 | 5882.6 | 5829.1 | 5732.7 | 5636.4 |
| 17.5° | 6251.0 | 6229.6 | 6221.0 | 6210.3 | 6165.3 | 6141.8 | 6116.1 | 6111.8 | 6064.7 | 5951.2 | 5801.3 |
| 20° | 6518.7 | 6548.6 | 6531.5 | 6520.8 | 6475.8 | 6430.9 | 6411.6 | 6405.2 | 6364.5 | 6240.3 | 6000.4 |
| 22.5° | 6837.7 | 6844.2 | 6850.6 | 6824.9 | 6803.5 | 6769.2 | 6734.9 | 6724.2 | 6709.2 | 6580.8 | 6287.4 |
| 25° | 7178.2 | 7203.9 | 7182.5 | 7156.8 | 7131.1 | 7129.0 | 7161.1 | 7156.8 | 7150.4 | 7026.2 | 6668.6 |
| 27.5° | 7732.9 | 7756.4 | 7762.9 | 7735.0 | 7636.5 | 7645.1 | 7717.9 | 7741.4 | 7839.9 | 7634.4 | 7159.0 |
| 30° | 8045.5 | 8069.1 | 8122.6 | 8227.6 | 8383.9 | 8520.9 | 8696.5 | 8750.1 | 8844.3 | 8456.7 | 7741.4 |
| 32.5° | 8238.3 | 8246.8 | 8343.2 | 8538.1 | 9007.1 | 9518.9 | 9996.4 | 10015.7 | 10075.7 | 9531.7 | 8274.7 |
| 35° | 8542.4 | 8548.8 | 8625.9 | 8840.0 | 9390.4 | 10242.7 | 10981.5 | 11005.1 | 10955.8 | 9865.8 | 8523.1 |
| 37.5° | 8917.1 | 8934.2 | 8983.5 | 9161.2 | 9818.7 | 10848.7 | 11390.5 | 11373.4 | 10936.5 | 10131.3 | 8962.1 |
| 40° | 9463.2 | 9463.2 | 9405.4 | 9645.2 | 10270.5 | 11195.6 | 11534.0 | 11504.0 | 11388.4 | 10900.1 | 9630.2 |
| 42.5° | 9945.0 | 9936.5 | 10073.5 | 10236.3 | 10835.9 | 11731.0 | 12135.8 | 12185.0 | 12375.6 | 11865.9 | 10390.4 |
| 45° | 10572.5 | 10611.0 | 10688.1 | 10983.6 | 11797.4 | 12645.4 | 13167.9 | 13215.1 | 13484.9 | 13003.1 | 11279.2 |
| 47.5° | 11206.4 | 11219.2 | 11461.2 | 11855.2 | 12988.1 | 13885.3 | 14313.6 | 14390.7 | 14637.0 | 14332.9 | 12236.4 |
| 50° | 11656.1 | 11778.1 | 12165.7 | 12786.8 | 14215.1 | 15397.2 | 15731.3 | 15823.4 | 16258.1 | 15780.5 | 13352.1 |
| 52.5° | 12131.5 | 12251.4 | 12724.7 | 13671.2 | 15624.2 | 16943.4 | 17354.5 | 17416.6 | 17868.5 | 17245.3 | 14493.5 |
| 55° | 12538.3 | 12649.7 | 13187.2 | 14455.0 | 16746.4 | 18521.6 | 19266.9 | 19194.1 | 19410.4 | 18373.9 | 15373.7 |
| 57.5° | 12604.7 | 12694.7 | 13371.4 | 14956.1 | 17590.1 | 19875.1 | 20943.6 | 20986.5 | 20735.9 | 19217.6 | 16099.6 |
| 60° | 12090.8 | 12274.9 | 13052.3 | 14902.5 | 17969.1 | 20817.3 | 22194.3 | 22224.3 | 21513.3 | 19650.2 | 16388.7 |
| 62.5° | 11180.7 | 11161.4 | 12101.5 | 14041.7 | 17438.1 | 21031.4 | 22930.9 | 22898.8 | 21817.4 | 19442.5 | 16108.2 |
| 64° | 9923.6 | 10154.9 | 11032.9 | 12983.8 | 16581.5 | 20701.7 | 23008.0 | 22990.9 | 21671.8 | 19009.9 | 15630.6 |
| 65° | 9157.0 | 9144.1 | 10011.4 | 12118.6 | 15729.2 | 20204.8 | 22871.0 | 22847.4 | 21367.7 | 18622.3 | 15260.2 |
| 67.5° | 6610.7 | 6640.7 | 7497.3 | 9351.8 | 12786.8 | 18262.5 | 21978.0 | 21890.2 | 20168.4 | 17337.4 | 13851.1 |
| 70° | 4004.6 | 4021.7 | 4694.1 | 6203.9 | 9178.4 | 14763.3 | 19810.8 | 19815.1 | 18333.2 | 15418.6 | 11788.8 |
| 72.5° | 2109.4 | 2154.3 | 2424.2 | 3522.7 | 5574.3 | 10358.3 | 16071.8 | 16453.0 | 15739.9 | 13159.4 | 9313.3 |
| 75° | 1173.5 | 1180.0 | 1370.5 | 1736.7 | 2843.9 | 5797.0 | 12080.1 | 12189.3 | 12461.3 | 10591.7 | 6887.0 |
| 77.5° | 895.1 | 908.0 | 967.9 | 1122.1 | 1548.3 | 2687.6 | 7311.0 | 7859.2 | 8782.2 | 7467.3 | 3929.6 |
| 80° | 726.0 | 738.8 | 790.2 | 882.3 | 1030.1 | 1274.2 | 3396.4 | 3691.9 | 4700.5 | 3315.0 | 1533.3 |
| 82.5° | 565.4 | 556.8 | 623.2 | 683.1 | 749.5 | 753.8 | 1394.1 | 1541.9 | 1914.5 | 1426.2 | 663.9 |
| 85° | 419.7 | 419.7 | 473.3 | 460.4 | 484.0 | 441.1 | 614.6 | 678.8 | 766.6 | 606.0 | 308.4 |
| 87.5° | 167.0 | 184.2 | 310.5 | 278.4 | 216.3 | 173.5 | 227.0 | 239.8 | 265.5 | 237.7 | 128.5 |
| 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-SA5D-750-U-T3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5154.5 | 5154.5 | 5154.5 | 5154.5 | 5154.5 | 5154.5 | 5154.5 | 5154.5 | 5154.5 | 5154.5 | 5154.5 |
| 2.5° | 5163.1 | 5169.5 | 5154.5 | 5143.8 | 5139.5 | 5133.1 | 5126.7 | 5128.8 | 5137.4 | 5146.0 | 5143.8 |
| 5° | 5188.8 | 5190.9 | 5165.2 | 5152.4 | 5143.8 | 5135.3 | 5135.3 | 5141.7 | 5158.8 | 5171.7 | 5171.7 |
| 7.5° | 5253.0 | 5253.0 | 5216.6 | 5193.1 | 5180.2 | 5165.2 | 5161.0 | 5163.1 | 5176.0 | 5193.1 | 5195.2 |
| 10° | 5353.7 | 5345.1 | 5298.0 | 5261.6 | 5238.1 | 5201.6 | 5169.5 | 5152.4 | 5158.8 | 5169.5 | 5169.5 |
| 12.5° | 5475.8 | 5452.2 | 5392.2 | 5343.0 | 5285.2 | 5216.6 | 5150.3 | 5116.0 | 5113.8 | 5124.6 | 5120.3 |
| 15° | 5606.4 | 5580.7 | 5497.2 | 5407.2 | 5306.6 | 5205.9 | 5126.7 | 5077.4 | 5038.9 | 5028.2 | 5051.7 |
| 17.5° | 5758.4 | 5704.9 | 5589.3 | 5465.1 | 5315.1 | 5184.5 | 5060.3 | 4959.7 | 4891.1 | 4871.9 | 4878.3 |
| 20° | 5942.6 | 5871.9 | 5715.6 | 5520.7 | 5308.7 | 5107.4 | 4914.7 | 4779.8 | 4668.4 | 4634.2 | 4638.4 |
| 22.5° | 6197.4 | 6075.4 | 5846.2 | 5548.6 | 5255.2 | 4961.8 | 4694.1 | 4518.5 | 4383.6 | 4330.1 | 4362.2 |
| 25° | 6486.5 | 6353.8 | 5970.4 | 5542.1 | 5116.0 | 4728.4 | 4432.9 | 4203.7 | 4081.7 | 4002.4 | 4019.6 |
| 27.5° | 6884.8 | 6649.3 | 6103.2 | 5484.3 | 4916.8 | 4443.6 | 4100.9 | 3884.6 | 3773.3 | 3732.6 | 3751.9 |
| 30° | 7394.5 | 7032.6 | 6246.7 | 5328.0 | 4602.0 | 4083.8 | 3766.9 | 3625.5 | 3559.1 | 3507.7 | 3524.9 |
| 32.5° | 7762.9 | 7302.4 | 6278.8 | 5064.6 | 4261.5 | 3756.2 | 3539.9 | 3434.9 | 3362.1 | 3312.9 | 3323.6 |
| 35° | 8026.3 | 7531.6 | 6263.8 | 4741.2 | 3906.1 | 3486.3 | 3360.0 | 3274.3 | 3156.5 | 3049.5 | 3030.2 |
| 37.5° | 8379.6 | 7818.5 | 6154.6 | 4387.9 | 3554.9 | 3304.3 | 3214.4 | 3055.9 | 2886.7 | 2743.2 | 2736.8 |
| 40° | 8921.4 | 8154.7 | 5921.2 | 3972.4 | 3255.0 | 3169.4 | 3060.2 | 2854.6 | 2672.6 | 2556.9 | 2548.4 |
| 42.5° | 9480.3 | 8465.3 | 5604.2 | 3535.6 | 3008.8 | 3028.0 | 2895.3 | 2691.8 | 2580.5 | 2505.5 | 2497.0 |
| 45° | 10163.5 | 8801.5 | 5261.6 | 3156.5 | 2826.8 | 2895.3 | 2751.8 | 2634.0 | 2567.6 | 2518.4 | 2505.5 |
| 47.5° | 10902.3 | 9146.2 | 4876.1 | 2816.0 | 2672.6 | 2773.2 | 2691.8 | 2638.3 | 2601.9 | 2567.6 | 2552.6 |
| 50° | 11698.9 | 9531.7 | 4514.2 | 2541.9 | 2533.4 | 2646.9 | 2685.4 | 2666.1 | 2644.7 | 2634.0 | 2621.2 |
| 52.5° | 12572.6 | 9925.7 | 4210.1 | 2349.2 | 2411.3 | 2556.9 | 2687.6 | 2702.5 | 2702.5 | 2696.1 | 2687.6 |
| 55° | 13163.7 | 10199.9 | 3901.8 | 2192.9 | 2287.1 | 2484.1 | 2683.3 | 2741.1 | 2762.5 | 2753.9 | 2745.4 |
| 57.5° | 13600.5 | 10349.8 | 3514.2 | 2058.0 | 2182.2 | 2413.4 | 2659.7 | 2745.4 | 2766.8 | 2777.5 | 2773.2 |
| 60° | 13690.5 | 10210.6 | 3006.6 | 1916.6 | 2068.7 | 2310.7 | 2574.1 | 2681.1 | 2709.0 | 2775.4 | 2781.8 |
| 62.5° | 13285.7 | 9782.3 | 2501.2 | 1777.4 | 1929.5 | 2154.3 | 2458.4 | 2608.3 | 2664.0 | 2766.8 | 2777.5 |
| 64° | 12788.9 | 9302.6 | 2220.7 | 1689.6 | 1839.5 | 2066.5 | 2400.6 | 2589.0 | 2661.9 | 2798.9 | 2807.5 |
| 65° | 12424.9 | 8953.5 | 2045.1 | 1633.9 | 1781.7 | 2008.7 | 2368.5 | 2595.5 | 2681.1 | 2848.2 | 2861.0 |
| 67.5° | 11084.3 | 7752.1 | 1691.8 | 1503.3 | 1644.7 | 1910.2 | 2374.9 | 2649.0 | 2676.8 | 2867.4 | 2865.3 |
| 70° | 9171.9 | 6171.7 | 1417.7 | 1383.4 | 1511.9 | 1831.0 | 2349.2 | 2563.3 | 2565.5 | 2691.8 | 2661.9 |
| 72.5° | 6867.7 | 4561.3 | 1229.2 | 1259.2 | 1364.1 | 1642.5 | 2218.6 | 2447.7 | 2411.3 | 2428.4 | 2398.5 |
| 75° | 4717.7 | 3017.3 | 1057.9 | 1126.4 | 1209.9 | 1451.9 | 2034.4 | 2222.9 | 2165.0 | 2143.6 | 2122.2 |
| 77.5° | 2518.4 | 1668.2 | 880.1 | 995.8 | 1051.5 | 1254.9 | 1775.3 | 1957.3 | 1897.3 | 1813.8 | 1786.0 |
| 80° | 1019.3 | 785.9 | 708.8 | 824.5 | 856.6 | 1010.8 | 1477.6 | 1591.1 | 1546.1 | 1400.5 | 1353.4 |
| 82.5° | 511.8 | 471.1 | 556.8 | 648.9 | 651.0 | 721.7 | 1098.6 | 1205.7 | 1105.0 | 927.3 | 886.6 |
| 85° | 267.7 | 276.3 | 383.3 | 456.1 | 402.6 | 389.7 | 659.6 | 730.2 | 670.3 | 582.5 | 524.7 |
| 87.5° | 96.4 | 111.4 | 201.3 | 199.2 | 141.3 | 75.0 | 145.6 | 70.7 | 38.5 | 23.6 | 30.0 |
| 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)