

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: P454739

Luminaire Tested: **GLAN-SA5D-760-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5D-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27897 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

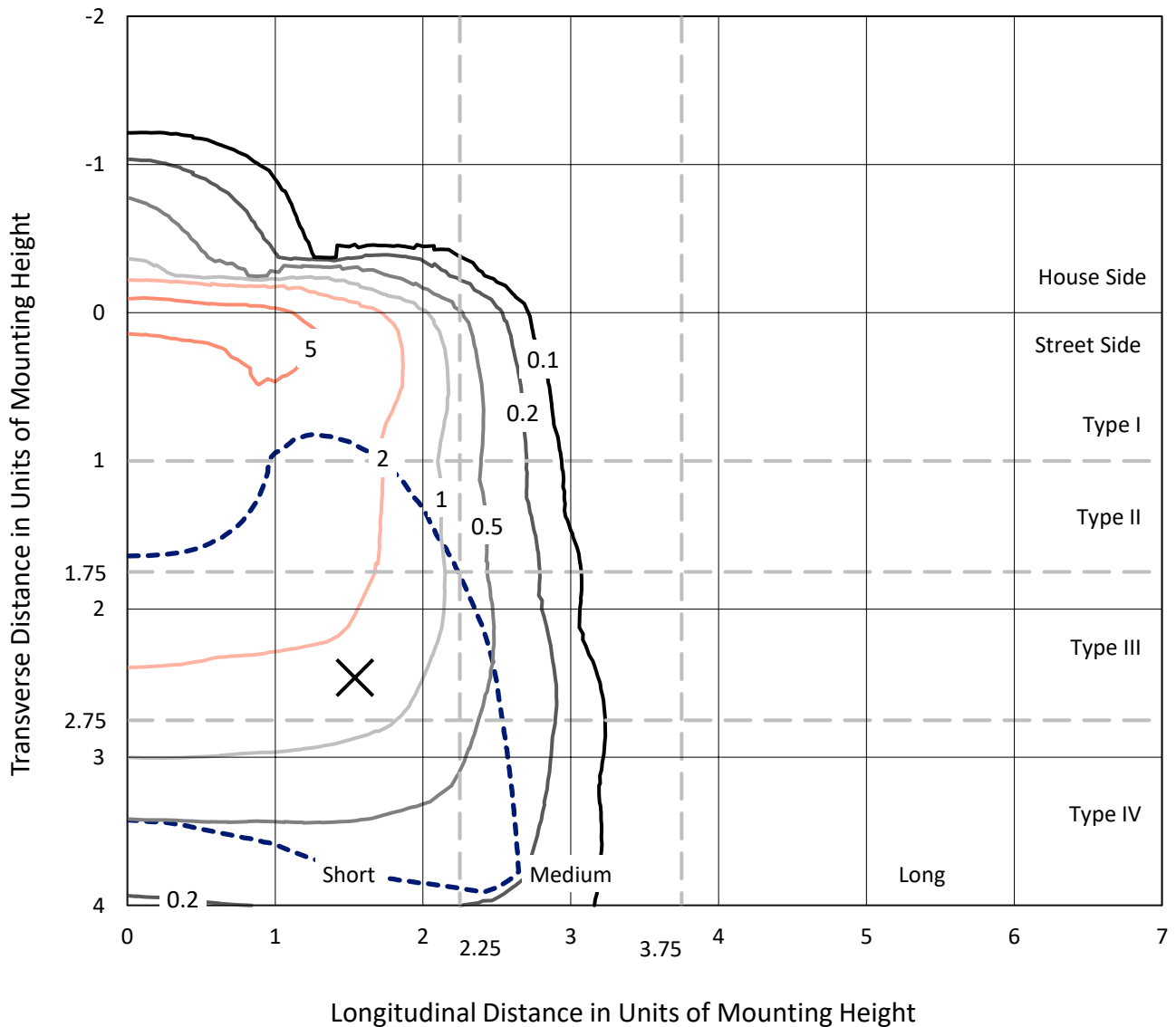
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

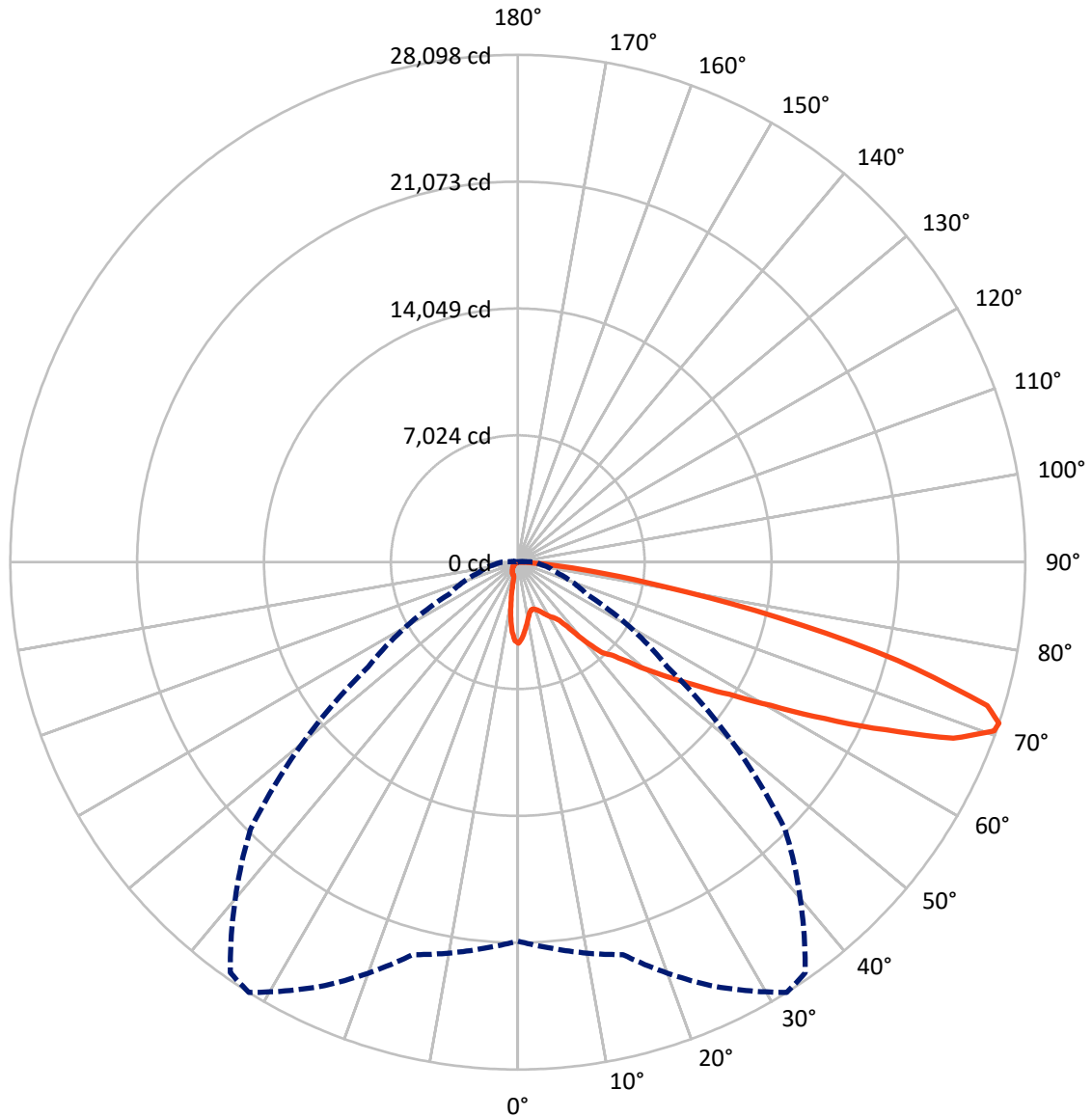
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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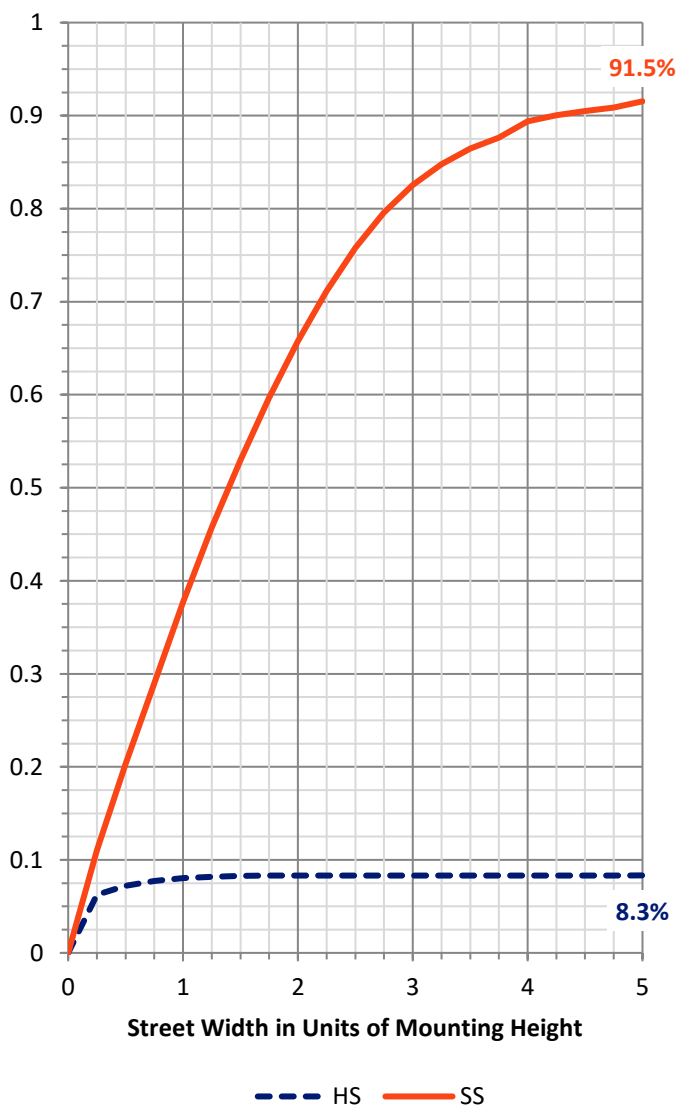
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2336.7 | 0.0 | 2336.7 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 25560.3 | 0.0 | 25560.3 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 27897.0 | 0.0 | 27897.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 364.8 | 1.3 |
| 10°-20° | 791.7 | 2.8 |
| 20°-30° | 1231.7 | 4.4 |
| 30°-40° | 2052.0 | 7.4 |
| 40°-50° | 3817.0 | 13.7 |
| 50°-60° | 6128.3 | 22.0 |
| 60°-70° | 8242.9 | 29.5 |
| 70°-80° | 4890.6 | 17.5 |
| 80°-90° | 378.0 | 1.4 |
| 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° | 27897.0 | 100.0 |
| 0°-180° | 27897.0 | 100.0 |

Coefficient of Utilization

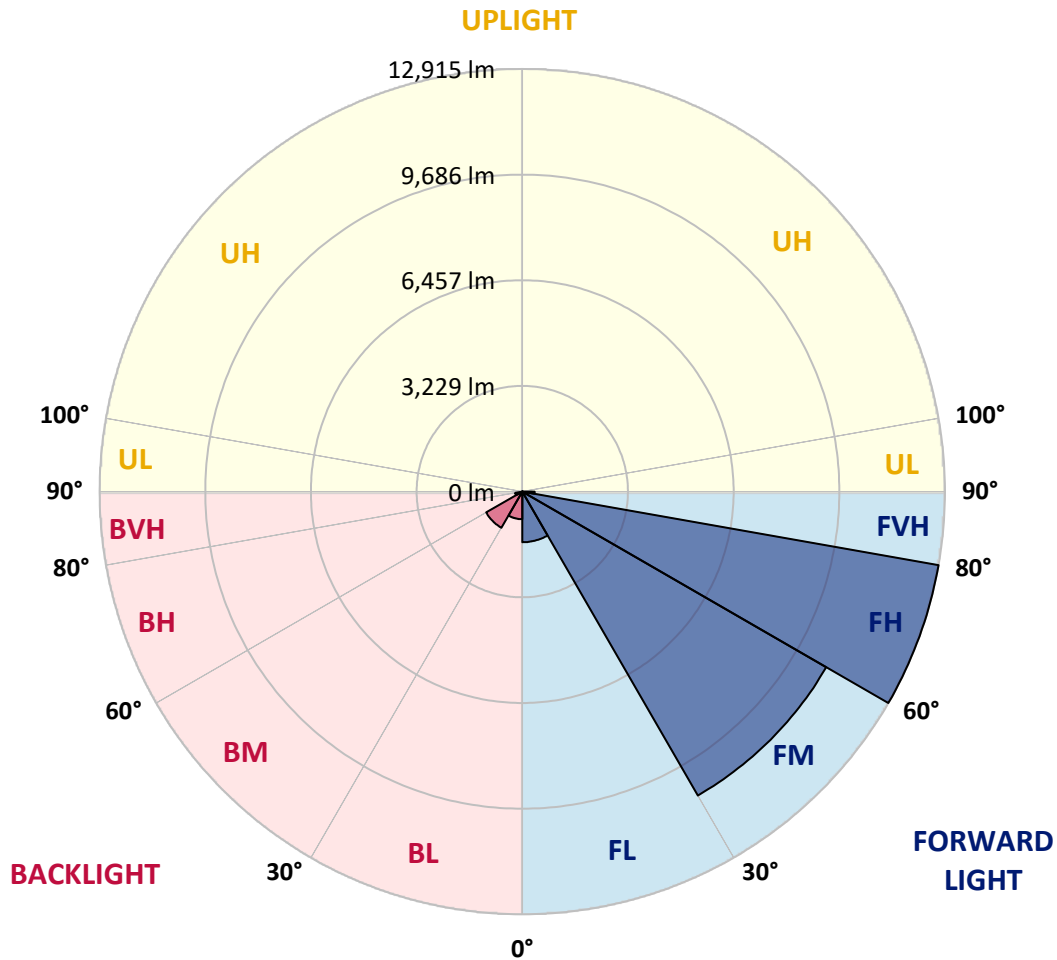


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1546.2 | 5.5 | | | |
| FM (30°-60°) | 10722.6 | 38.4 | | | |
| FH (60°-80°) | 12915.0 | 46.3 | | | G5 |
| FVH (80°-90°) | 376.6 | 1.3 | | | G3/500 |
| BL (0°-30°) | 842.0 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 1274.7 | 4.6 | B2/2500 | | |
| BH (60°-80°) | 218.5 | 0.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 32° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4486.3 | 4486.3 | 4486.3 | 4486.3 | 4486.3 | 4486.3 | 4486.3 | 4486.3 | 4486.3 | 4486.3 | 4486.3 |
| 2.5° | 4160.8 | 4203.6 | 4197.2 | 4212.2 | 4248.6 | 4263.6 | 4304.3 | 4349.2 | 4411.3 | 4454.2 | 4482.0 |
| 5° | 3726.1 | 3758.2 | 3762.5 | 3837.4 | 3873.8 | 3914.5 | 4034.4 | 4165.1 | 4310.7 | 4426.3 | 4503.4 |
| 7.5° | 3261.4 | 3278.5 | 3312.8 | 3411.3 | 3503.4 | 3544.0 | 3726.1 | 3953.1 | 4182.2 | 4398.5 | 4537.7 |
| 10° | 2878.1 | 2897.3 | 2959.4 | 3064.4 | 3150.0 | 3203.6 | 3456.3 | 3741.1 | 4062.3 | 4383.5 | 4586.9 |
| 12.5° | 2659.6 | 2670.3 | 2693.9 | 2788.1 | 2897.3 | 2955.2 | 3227.1 | 3552.6 | 3965.9 | 4389.9 | 4670.4 |
| 15° | 2644.7 | 2640.4 | 2612.5 | 2651.1 | 2749.6 | 2809.5 | 3075.1 | 3424.1 | 3880.3 | 4411.3 | 4768.9 |
| 17.5° | 2723.9 | 2713.2 | 2646.8 | 2646.8 | 2728.2 | 2777.4 | 3010.8 | 3355.6 | 3837.4 | 4460.6 | 4908.1 |
| 20° | 2845.9 | 2828.8 | 2719.6 | 2711.0 | 2790.3 | 2841.7 | 3049.4 | 3359.9 | 3846.0 | 4552.7 | 5094.4 |
| 22.5° | 3000.1 | 2980.9 | 2816.0 | 2820.2 | 2905.9 | 2957.3 | 3160.7 | 3437.0 | 3899.5 | 4666.2 | 5293.6 |
| 25° | 3201.4 | 3180.0 | 2985.1 | 2976.6 | 3066.5 | 3111.5 | 3325.6 | 3574.0 | 3974.5 | 4807.5 | 5554.8 |
| 27.5° | 3469.1 | 3424.1 | 3190.7 | 3177.9 | 3274.2 | 3332.0 | 3524.8 | 3758.2 | 4107.2 | 5002.4 | 5906.0 |
| 30° | 3689.7 | 3640.4 | 3417.7 | 3383.4 | 3486.2 | 3531.2 | 3730.4 | 4006.6 | 4368.5 | 5342.8 | 6392.1 |
| 32.5° | 3978.8 | 3905.9 | 3644.7 | 3554.8 | 3664.0 | 3721.8 | 4028.0 | 4469.1 | 4756.1 | 5702.6 | 6970.3 |
| 35° | 4629.7 | 4584.8 | 4265.7 | 3950.9 | 3944.5 | 4017.3 | 4467.0 | 4936.0 | 5154.4 | 6263.7 | 7758.4 |
| 37.5° | 5561.3 | 5529.1 | 5190.8 | 4768.9 | 4646.9 | 4612.6 | 5000.2 | 5449.9 | 5790.4 | 7034.6 | 8674.9 |
| 40° | 6642.7 | 6567.7 | 6257.2 | 5899.6 | 5741.1 | 5640.5 | 5629.8 | 6214.4 | 6621.3 | 8081.7 | 9630.0 |
| 42.5° | 7417.9 | 7280.8 | 6903.9 | 6878.2 | 6844.0 | 6739.0 | 6435.0 | 7332.2 | 7694.1 | 9208.1 | 10651.4 |
| 45° | 8231.6 | 8023.9 | 7462.8 | 7366.5 | 7353.6 | 7347.2 | 7651.3 | 8655.6 | 8863.3 | 10428.7 | 11700.7 |
| 47.5° | 8863.3 | 8698.4 | 8238.0 | 8195.2 | 8248.7 | 8394.4 | 9259.5 | 10060.4 | 10017.6 | 11516.6 | 12580.8 |
| 50° | 9704.9 | 9580.7 | 9068.9 | 9150.3 | 9426.5 | 9664.2 | 11073.3 | 11591.5 | 10966.2 | 12373.1 | 13221.1 |
| 52.5° | 10698.5 | 10469.4 | 9994.0 | 10214.6 | 10638.6 | 11034.7 | 12998.4 | 12932.0 | 11632.2 | 13017.7 | 13698.7 |
| 55° | 11559.4 | 11396.6 | 11233.9 | 11463.0 | 12096.9 | 12591.5 | 14737.2 | 13936.4 | 12116.2 | 13535.9 | 13908.5 |
| 57.5° | 13015.5 | 12977.0 | 12810.0 | 13043.4 | 13812.2 | 14326.1 | 16294.1 | 14715.8 | 12426.7 | 13805.7 | 13662.3 |
| 60° | 15169.8 | 15107.7 | 14797.2 | 15094.9 | 16097.0 | 16904.4 | 17728.8 | 15416.1 | 12497.3 | 13700.8 | 12953.4 |
| 62.5° | 17760.9 | 17548.9 | 17283.4 | 17722.4 | 19097.2 | 19452.7 | 19080.0 | 15831.5 | 12233.9 | 12865.6 | 11244.6 |
| 65° | 20180.7 | 19962.3 | 19968.7 | 20893.8 | 22390.7 | 22632.7 | 20656.1 | 15769.4 | 11463.0 | 10773.5 | 8293.7 |
| 67.5° | 22033.1 | 21996.7 | 22257.9 | 24063.1 | 26020.4 | 25853.4 | 22065.2 | 14840.0 | 9178.1 | 6983.2 | 4407.0 |
| 70° | 22127.3 | 22198.0 | 22947.4 | 25994.7 | 27981.9 | 27716.4 | 21945.3 | 12062.6 | 5721.9 | 3212.1 | 1736.7 |
| 71° | 20988.1 | 21463.4 | 22499.9 | 25934.7 | 28097.6 | 27752.8 | 20934.5 | 10103.2 | 4197.2 | 2239.9 | 1252.7 |
| 72.5° | 17885.1 | 18135.7 | 20375.6 | 24407.9 | 27183.2 | 26446.5 | 18371.2 | 7081.7 | 2687.5 | 1370.5 | 719.5 |
| 75° | 9850.5 | 10467.3 | 13645.1 | 19148.6 | 21741.8 | 21095.1 | 11972.7 | 3364.2 | 1340.5 | 749.5 | 297.7 |
| 77.5° | 4689.7 | 4569.8 | 6657.7 | 11388.1 | 14741.5 | 14707.3 | 6032.4 | 1494.7 | 781.6 | 507.5 | 149.9 |
| 80° | 1340.5 | 1507.6 | 2548.3 | 5413.5 | 8184.5 | 8274.4 | 2317.0 | 721.7 | 541.8 | 396.2 | 77.1 |
| 82.5° | 404.7 | 413.3 | 935.8 | 2394.1 | 4070.8 | 3837.4 | 869.4 | 368.3 | 389.7 | 314.8 | 45.0 |
| 85° | 70.7 | 87.8 | 276.2 | 843.7 | 1552.5 | 1177.8 | 218.4 | 175.6 | 257.0 | 207.7 | 25.7 |
| 87.5° | 4.3 | 6.4 | 92.1 | 96.4 | 137.1 | 79.2 | 38.5 | 25.7 | 55.7 | 55.7 | 15.0 |
| 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-SA5D-760-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4486.3 | 4486.3 | 4486.3 | 4486.3 | 4486.3 | 4486.3 | 4486.3 | 4486.3 | 4486.3 | 4486.3 | 4486.3 |
| 2.5° | 4501.3 | 4514.1 | 4505.5 | 4486.3 | 4454.2 | 4415.6 | 4364.2 | 4321.4 | 4285.0 | 4265.7 | 4289.3 |
| 5° | 4529.1 | 4546.2 | 4503.4 | 4407.0 | 4261.4 | 4103.0 | 3923.1 | 3783.9 | 3674.7 | 3640.4 | 3627.6 |
| 7.5° | 4571.9 | 4582.6 | 4467.0 | 4252.9 | 3944.5 | 3569.7 | 3242.1 | 2965.9 | 2751.7 | 2687.5 | 2593.3 |
| 10° | 4627.6 | 4621.2 | 4402.8 | 4004.5 | 3462.7 | 2899.5 | 2392.0 | 2015.1 | 1730.3 | 1627.5 | 1618.9 |
| 12.5° | 4713.3 | 4679.0 | 4321.4 | 3666.1 | 2888.8 | 2152.1 | 1524.7 | 1192.8 | 1012.9 | 952.9 | 940.1 |
| 15° | 4820.3 | 4739.0 | 4192.9 | 3269.9 | 2212.1 | 1389.8 | 940.1 | 839.4 | 815.9 | 811.6 | 807.3 |
| 17.5° | 4946.7 | 4818.2 | 4023.7 | 2783.8 | 1554.7 | 901.5 | 785.9 | 783.8 | 785.9 | 781.6 | 779.5 |
| 20° | 5118.0 | 4901.7 | 3822.4 | 2207.8 | 1027.9 | 760.2 | 749.5 | 749.5 | 751.6 | 749.5 | 749.5 |
| 22.5° | 5300.0 | 5000.2 | 3574.0 | 1685.3 | 775.2 | 721.7 | 719.5 | 723.8 | 728.1 | 725.9 | 725.9 |
| 25° | 5524.9 | 5128.7 | 3246.4 | 1154.2 | 693.8 | 689.5 | 691.7 | 700.2 | 708.8 | 711.0 | 708.8 |
| 27.5° | 5850.4 | 5287.2 | 2895.2 | 794.5 | 636.0 | 640.3 | 661.7 | 683.1 | 696.0 | 698.1 | 698.1 |
| 30° | 6216.5 | 5462.8 | 2436.9 | 644.6 | 588.9 | 588.9 | 614.6 | 655.3 | 683.1 | 687.4 | 689.5 |
| 32.5° | 6687.7 | 5666.2 | 1929.4 | 580.3 | 543.9 | 539.6 | 563.2 | 612.4 | 663.8 | 678.8 | 678.8 |
| 35° | 7270.1 | 5906.0 | 1434.8 | 539.6 | 511.8 | 501.1 | 513.9 | 554.6 | 621.0 | 663.8 | 668.1 |
| 37.5° | 7953.2 | 6133.0 | 1049.3 | 503.2 | 481.8 | 466.8 | 475.4 | 507.5 | 561.1 | 625.3 | 642.4 |
| 40° | 8584.9 | 6334.3 | 783.8 | 473.3 | 451.8 | 441.1 | 447.6 | 462.5 | 507.5 | 567.5 | 578.2 |
| 42.5° | 9274.5 | 6490.6 | 623.2 | 441.1 | 421.9 | 417.6 | 417.6 | 424.0 | 454.0 | 488.2 | 490.4 |
| 45° | 9961.9 | 6546.3 | 522.5 | 402.6 | 389.7 | 394.0 | 391.9 | 387.6 | 400.4 | 396.2 | 396.2 |
| 47.5° | 10452.3 | 6479.9 | 432.6 | 366.2 | 366.2 | 372.6 | 361.9 | 346.9 | 340.5 | 314.8 | 316.9 |
| 50° | 10788.5 | 6238.0 | 355.5 | 323.4 | 340.5 | 349.1 | 327.6 | 304.1 | 280.5 | 252.7 | 246.3 |
| 52.5° | 10927.7 | 5807.5 | 291.2 | 267.7 | 301.9 | 312.6 | 287.0 | 259.1 | 222.7 | 199.2 | 192.7 |
| 55° | 10837.7 | 5276.5 | 242.0 | 218.4 | 254.8 | 267.7 | 242.0 | 209.9 | 169.2 | 143.5 | 139.2 |
| 57.5° | 10441.6 | 4642.6 | 205.6 | 173.5 | 203.4 | 212.0 | 194.9 | 160.6 | 119.9 | 94.2 | 94.2 |
| 60° | 9756.3 | 3987.3 | 167.0 | 137.1 | 152.0 | 164.9 | 147.8 | 115.6 | 81.4 | 57.8 | 53.5 |
| 62.5° | 8366.5 | 3237.8 | 134.9 | 107.1 | 107.1 | 117.8 | 102.8 | 83.5 | 51.4 | 30.0 | 27.8 |
| 65° | 6040.9 | 2220.7 | 107.1 | 79.2 | 77.1 | 77.1 | 64.2 | 55.7 | 30.0 | 12.8 | 8.6 |
| 67.5° | 3282.8 | 1252.7 | 85.7 | 60.0 | 53.5 | 51.4 | 40.7 | 32.1 | 12.8 | 2.1 | 0.0 |
| 70° | 1291.3 | 481.8 | 66.4 | 40.7 | 34.3 | 32.1 | 21.4 | 15.0 | 8.6 | 0.0 | 0.0 |
| 71° | 875.8 | 331.9 | 57.8 | 34.3 | 27.8 | 23.6 | 17.1 | 12.8 | 6.4 | 0.0 | 0.0 |
| 72.5° | 501.1 | 205.6 | 45.0 | 25.7 | 21.4 | 17.1 | 12.8 | 8.6 | 6.4 | 0.0 | 0.0 |
| 75° | 218.4 | 104.9 | 27.8 | 19.3 | 15.0 | 10.7 | 8.6 | 6.4 | 2.1 | 0.0 | 0.0 |
| 77.5° | 111.4 | 57.8 | 19.3 | 15.0 | 8.6 | 6.4 | 4.3 | 2.1 | 0.0 | 0.0 | 0.0 |
| 80° | 62.1 | 30.0 | 12.8 | 8.6 | 6.4 | 4.3 | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 |
| 82.5° | 34.3 | 17.1 | 6.4 | 4.3 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 21.4 | 10.7 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 10.7 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 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)