

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: P454724

Luminaire Tested: **GLAN-SA5D-760-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5D-760-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31867 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

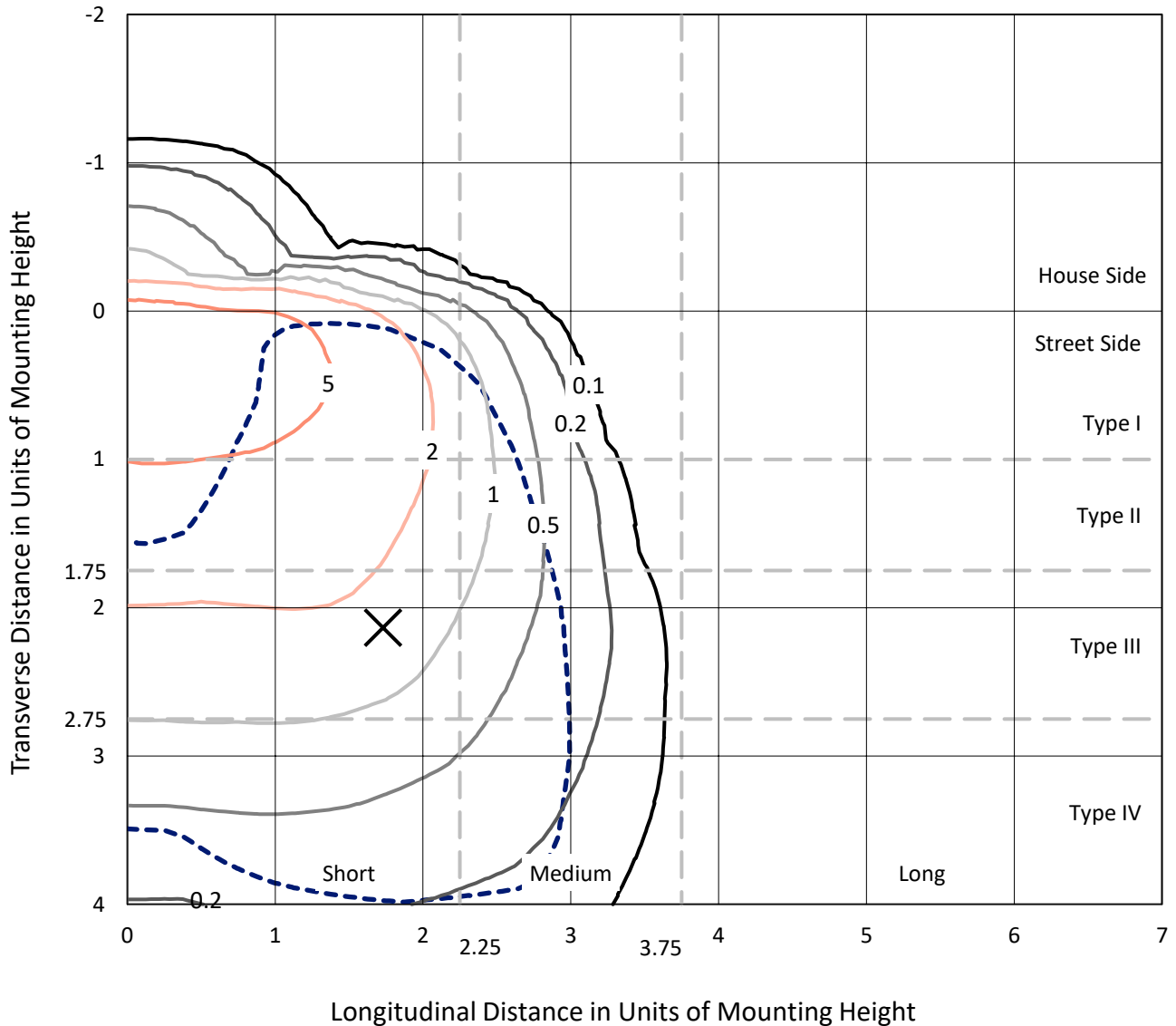
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

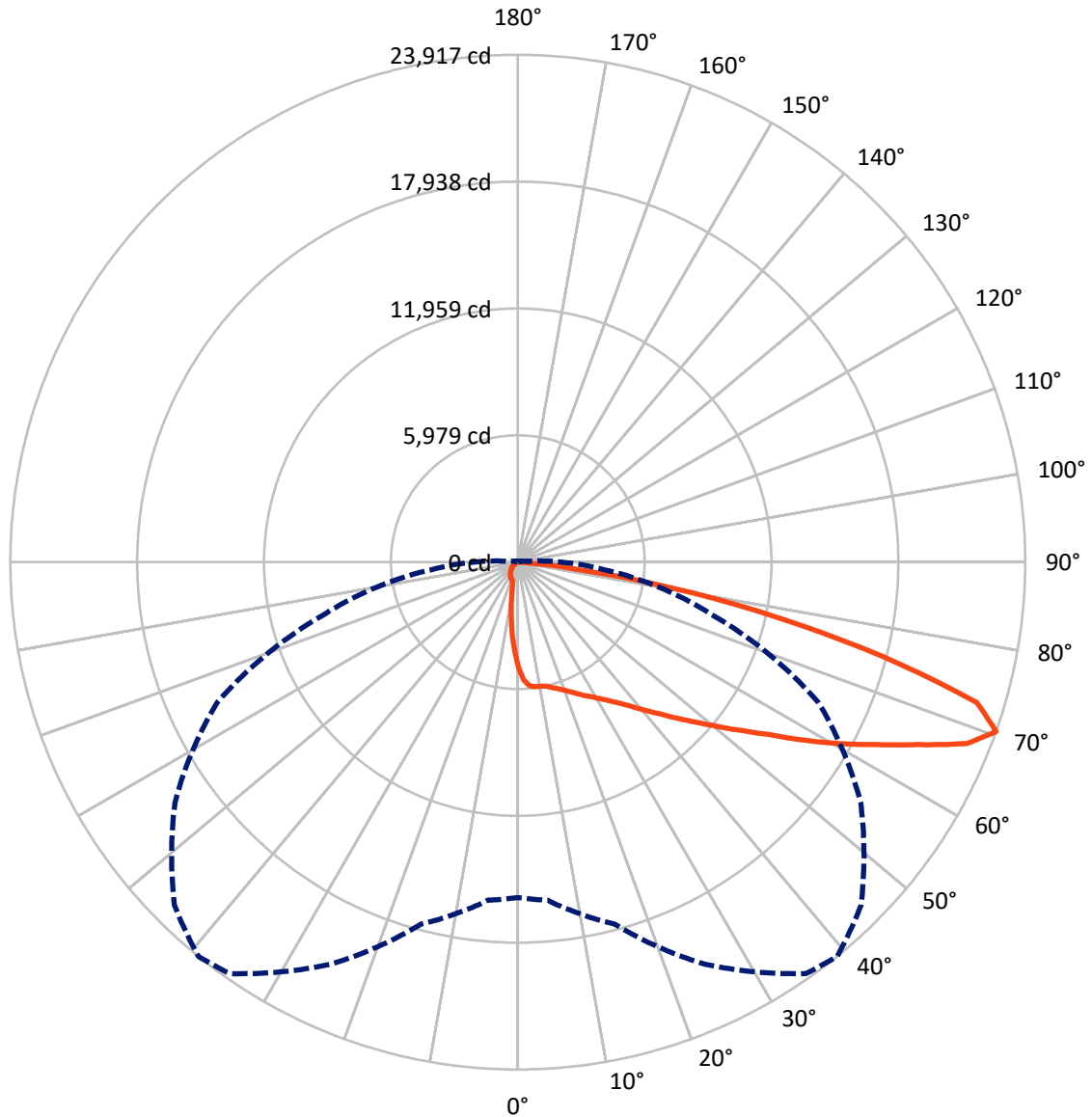
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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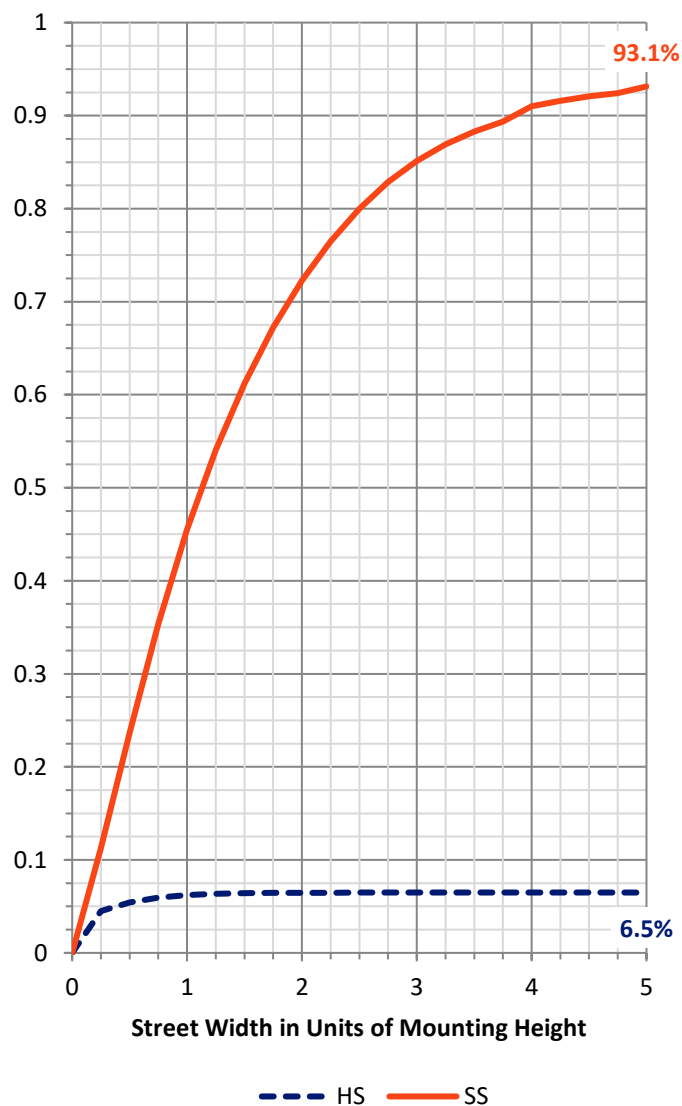
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2077.9 | 0.0 | 2077.9 |
| | % Fixture | 6.5 | 0.0 | 6.5 |
| Street Side | Lumens | 29789.1 | 0.0 | 29789.1 |
| | % Fixture | 93.5 | 0.0 | 93.5 |
| Total | Lumens | 31867.0 | 0.0 | 31867.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 424.1 | 1.3 |
| 10°-20° | 1102.1 | 3.5 |
| 20°-30° | 1846.4 | 5.8 |
| 30°-40° | 2863.5 | 9.0 |
| 40°-50° | 4537.8 | 14.2 |
| 50°-60° | 6651.7 | 20.9 |
| 60°-70° | 8525.9 | 26.8 |
| 70°-80° | 5357.4 | 16.8 |
| 80°-90° | 558.1 | 1.8 |
| 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° | 31867.0 | 100.0 |
| 0°-180° | 31867.0 | 100.0 |

Coefficient of Utilization



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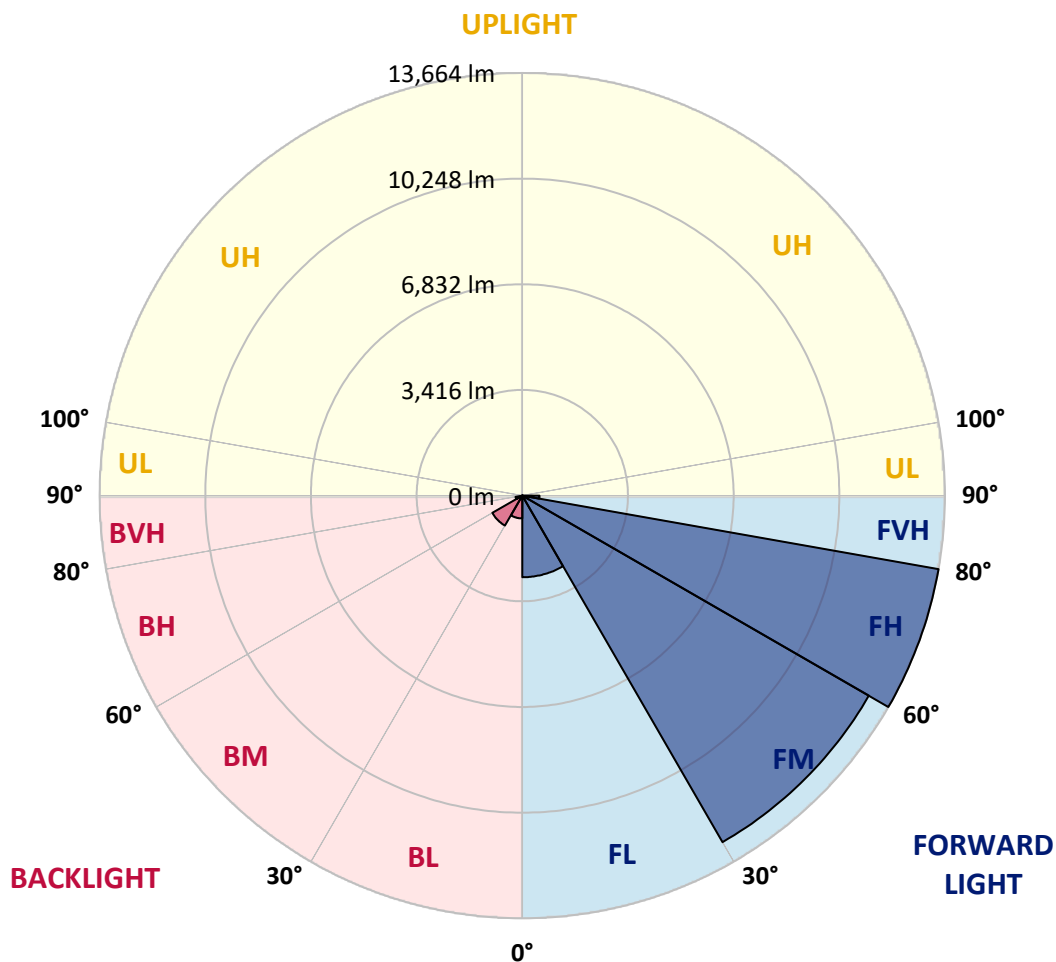
CATALOG NUMBER: GLAN-SA5D-760-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2636.8 | 8.3 | | | |
| FM (30°-60°) | 12934.7 | 40.6 | | | |
| FH (60°-80°) | 13663.5 | 42.9 | | | G5 |
| FVH (80°-90°) | 554.0 | 1.7 | | | G4/750 |
| BL (0°-30°) | 735.8 | 2.3 | B2/1000 | | |
| BM (30°-60°) | 1118.3 | 3.5 | B2/2500 | | |
| BH (60°-80°) | 219.8 | 0.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.1 | 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° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4972.3 | 4972.3 | 4972.3 | 4972.3 | 4972.3 | 4972.3 | 4972.3 | 4972.3 | 4972.3 | 4972.3 | 4972.3 |
| 2.5° | 5745.4 | 5726.1 | 5700.4 | 5670.4 | 5584.8 | 5569.8 | 5518.4 | 5409.2 | 5278.6 | 5171.5 | 5023.7 |
| 5° | 6017.4 | 6028.1 | 6008.8 | 5955.3 | 5893.1 | 5856.7 | 5792.5 | 5623.3 | 5454.2 | 5237.9 | 4995.9 |
| 7.5° | 6079.5 | 6100.9 | 6077.3 | 6025.9 | 5966.0 | 5927.4 | 5876.0 | 5730.4 | 5533.4 | 5287.1 | 4955.2 |
| 10° | 6073.0 | 6098.7 | 6083.7 | 6036.6 | 5987.4 | 5951.0 | 5895.3 | 5779.7 | 5621.2 | 5362.1 | 4968.1 |
| 12.5° | 6062.3 | 6096.6 | 6094.4 | 6070.9 | 6030.2 | 6002.4 | 5968.1 | 5865.3 | 5717.6 | 5471.3 | 5038.7 |
| 15° | 6032.3 | 6075.2 | 6113.7 | 6133.0 | 6135.1 | 6135.1 | 6092.3 | 5983.1 | 5841.8 | 5614.8 | 5130.8 |
| 17.5° | 6045.2 | 6094.4 | 6190.8 | 6246.5 | 6285.0 | 6280.7 | 6235.8 | 6118.0 | 5961.7 | 5762.5 | 5227.2 |
| 20° | 6124.4 | 6190.8 | 6325.7 | 6437.1 | 6475.6 | 6462.8 | 6402.8 | 6265.8 | 6088.0 | 5888.9 | 5321.4 |
| 22.5° | 6319.3 | 6379.2 | 6548.4 | 6679.0 | 6706.9 | 6672.6 | 6587.0 | 6400.7 | 6240.1 | 6025.9 | 5434.9 |
| 25° | 6610.5 | 6681.2 | 6837.5 | 6936.0 | 6936.0 | 6916.7 | 6796.8 | 6578.4 | 6411.4 | 6216.5 | 5582.6 |
| 27.5° | 6963.9 | 7023.8 | 7178.0 | 7265.8 | 7214.4 | 7158.7 | 7038.8 | 6775.4 | 6614.8 | 6456.3 | 5760.4 |
| 30° | 7321.5 | 7360.0 | 7522.8 | 7561.3 | 7507.8 | 7437.1 | 7308.6 | 7045.2 | 6903.9 | 6781.8 | 6017.4 |
| 32.5° | 7659.8 | 7743.3 | 7878.2 | 7869.7 | 7796.9 | 7762.6 | 7644.8 | 7364.3 | 7285.1 | 7272.2 | 6377.1 |
| 35° | 7998.2 | 8062.4 | 8182.3 | 8212.3 | 8148.1 | 8141.6 | 8056.0 | 7848.3 | 7850.4 | 7933.9 | 6938.2 |
| 37.5° | 8289.4 | 8347.2 | 8488.5 | 8554.9 | 8567.8 | 8599.9 | 8565.6 | 8428.6 | 8623.4 | 8852.6 | 7681.2 |
| 40° | 8533.5 | 8614.9 | 8794.8 | 8910.4 | 9043.2 | 9160.9 | 9167.4 | 9197.3 | 9589.2 | 9983.2 | 8651.3 |
| 42.5° | 8724.1 | 8837.6 | 9098.8 | 9313.0 | 9617.1 | 9767.0 | 9886.9 | 10051.8 | 10711.3 | 11300.2 | 9794.8 |
| 45° | 8972.5 | 9103.1 | 9428.6 | 9764.8 | 10240.2 | 10486.5 | 10653.5 | 11094.6 | 12030.4 | 12833.4 | 10968.3 |
| 47.5° | 9383.6 | 9452.2 | 9784.1 | 10274.5 | 10899.8 | 11250.9 | 11576.4 | 12244.6 | 13445.9 | 14165.4 | 11944.8 |
| 50° | 9912.6 | 9957.5 | 10208.1 | 10889.1 | 11698.5 | 12161.0 | 12754.2 | 13540.1 | 14914.9 | 15270.4 | 12497.2 |
| 52.5° | 10497.2 | 10512.2 | 10700.6 | 11565.7 | 12593.6 | 13176.1 | 13839.9 | 14810.0 | 16111.9 | 16058.4 | 12863.4 |
| 55° | 11176.0 | 11154.6 | 11315.2 | 12300.2 | 13653.6 | 14319.6 | 15092.6 | 16109.8 | 17150.5 | 16617.3 | 13073.3 |
| 57.5° | 11953.3 | 11895.5 | 12051.8 | 13274.6 | 15011.3 | 15807.9 | 16593.8 | 17231.9 | 17955.7 | 17086.3 | 13173.9 |
| 60° | 12767.1 | 12651.4 | 12837.7 | 14368.8 | 16610.9 | 17366.8 | 18019.9 | 18191.2 | 18803.7 | 17458.9 | 13000.5 |
| 62.5° | 13415.9 | 13418.1 | 13765.0 | 15533.8 | 18255.5 | 18917.2 | 19264.1 | 19418.3 | 19533.9 | 17377.5 | 12088.2 |
| 65° | 14428.8 | 14463.1 | 15017.7 | 17150.5 | 20159.2 | 20733.1 | 20970.8 | 20469.7 | 19566.0 | 16366.8 | 10717.7 |
| 67.5° | 15473.8 | 15583.0 | 16598.0 | 19377.6 | 22358.4 | 22821.0 | 22514.7 | 20673.1 | 18692.3 | 14060.5 | 8126.6 |
| 70° | 15814.3 | 15994.2 | 17666.6 | 20910.8 | 23677.5 | 23917.4 | 22880.9 | 19724.5 | 15625.8 | 9400.8 | 4090.1 |
| 72.5° | 14490.9 | 14782.1 | 17052.0 | 20351.9 | 22836.0 | 22628.2 | 20471.8 | 16542.4 | 9934.0 | 3569.7 | 1248.4 |
| 75° | 10218.8 | 10347.3 | 14171.8 | 16882.8 | 18366.8 | 17778.0 | 15572.3 | 10664.2 | 4085.8 | 1002.2 | 428.3 |
| 77.5° | 5276.4 | 5214.3 | 8428.6 | 11201.7 | 13099.0 | 12488.7 | 10197.4 | 5520.5 | 1548.2 | 417.6 | 265.5 |
| 80° | 2728.2 | 2773.1 | 3646.8 | 5869.6 | 7996.0 | 7357.9 | 5437.0 | 2559.0 | 824.4 | 231.3 | 203.4 |
| 82.5° | 1529.0 | 1434.7 | 2096.4 | 2563.3 | 3738.9 | 2931.6 | 2085.7 | 1811.6 | 359.8 | 139.2 | 192.7 |
| 85° | 278.4 | 291.2 | 1149.9 | 1385.5 | 1297.7 | 824.4 | 672.4 | 1209.9 | 104.9 | 77.1 | 134.9 |
| 87.5° | 4.3 | 4.3 | 222.7 | 398.3 | 252.7 | 115.6 | 212.0 | 173.5 | 21.4 | 30.0 | 23.6 |
| 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-SL4-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4972.3 | 4972.3 | 4972.3 | 4972.3 | 4972.3 | 4972.3 | 4972.3 | 4972.3 | 4972.3 | 4972.3 | 4972.3 |
| 2.5° | 4948.8 | 4867.4 | 4715.4 | 4565.5 | 4374.9 | 4218.6 | 4113.6 | 4004.4 | 3893.1 | 3901.6 | 3927.3 |
| 5° | 4863.1 | 4721.8 | 4422.0 | 4105.1 | 3801.0 | 3526.9 | 3257.1 | 3015.1 | 2916.6 | 2826.7 | 2830.9 |
| 7.5° | 4777.5 | 4578.3 | 4139.3 | 3642.5 | 3182.1 | 2715.3 | 2377.0 | 2098.6 | 1950.8 | 1839.5 | 1807.3 |
| 10° | 4738.9 | 4475.5 | 3880.2 | 3197.1 | 2544.0 | 2034.3 | 1599.6 | 1372.6 | 1197.0 | 1141.4 | 1156.4 |
| 12.5° | 4756.1 | 4424.1 | 3646.8 | 2794.5 | 2017.2 | 1417.6 | 1113.5 | 997.9 | 959.3 | 952.9 | 948.6 |
| 15° | 4788.2 | 4387.7 | 3417.7 | 2349.1 | 1481.9 | 1053.6 | 935.8 | 914.4 | 910.1 | 905.8 | 908.0 |
| 17.5° | 4831.0 | 4355.6 | 3173.6 | 1931.5 | 1137.1 | 920.8 | 886.5 | 875.8 | 873.7 | 873.7 | 873.7 |
| 20° | 4873.8 | 4319.2 | 2901.6 | 1558.9 | 948.6 | 869.4 | 848.0 | 841.6 | 839.4 | 839.4 | 837.3 |
| 22.5° | 4923.1 | 4287.1 | 2625.4 | 1224.9 | 873.7 | 833.0 | 813.7 | 809.5 | 807.3 | 805.2 | 805.2 |
| 25° | 4993.8 | 4246.4 | 2332.0 | 1002.2 | 826.6 | 798.7 | 779.5 | 775.2 | 773.0 | 764.5 | 766.6 |
| 27.5° | 5088.0 | 4216.4 | 2030.1 | 865.1 | 783.8 | 755.9 | 743.1 | 736.6 | 732.4 | 725.9 | 728.1 |
| 30° | 5216.5 | 4190.7 | 1708.8 | 790.2 | 734.5 | 710.9 | 698.1 | 693.8 | 689.5 | 683.1 | 683.1 |
| 32.5° | 5439.2 | 4201.4 | 1370.5 | 730.2 | 689.5 | 661.7 | 648.8 | 644.6 | 640.3 | 633.9 | 633.9 |
| 35° | 5773.2 | 4263.5 | 1096.4 | 678.8 | 636.0 | 608.2 | 595.3 | 595.3 | 588.9 | 580.3 | 578.2 |
| 37.5° | 6319.3 | 4422.0 | 880.1 | 629.6 | 584.6 | 558.9 | 543.9 | 539.6 | 533.2 | 520.4 | 518.2 |
| 40° | 6963.9 | 4668.3 | 740.9 | 580.3 | 537.5 | 511.8 | 498.9 | 486.1 | 469.0 | 456.1 | 454.0 |
| 42.5° | 7773.3 | 4921.0 | 642.4 | 531.1 | 492.5 | 469.0 | 454.0 | 432.6 | 406.9 | 389.7 | 387.6 |
| 45° | 8617.0 | 5152.2 | 576.0 | 486.1 | 449.7 | 430.4 | 413.3 | 379.0 | 346.9 | 325.5 | 323.4 |
| 47.5° | 9246.6 | 5195.1 | 522.5 | 443.3 | 413.3 | 394.0 | 370.5 | 327.6 | 284.8 | 265.5 | 259.1 |
| 50° | 9544.2 | 4987.3 | 466.8 | 400.4 | 376.9 | 355.5 | 325.5 | 276.2 | 229.1 | 205.6 | 201.3 |
| 52.5° | 9649.2 | 4627.6 | 421.9 | 361.9 | 340.5 | 314.8 | 278.4 | 222.7 | 179.9 | 156.3 | 154.2 |
| 55° | 9606.3 | 4173.6 | 381.2 | 325.5 | 297.7 | 267.7 | 231.3 | 177.7 | 132.8 | 113.5 | 109.2 |
| 57.5° | 9381.5 | 3595.4 | 340.5 | 289.1 | 254.8 | 224.8 | 184.2 | 132.8 | 89.9 | 72.8 | 70.7 |
| 60° | 8775.5 | 2807.4 | 299.8 | 248.4 | 216.3 | 184.2 | 145.6 | 94.2 | 55.7 | 40.7 | 40.7 |
| 62.5° | 7751.9 | 2083.6 | 261.3 | 207.7 | 182.0 | 147.8 | 102.8 | 60.0 | 30.0 | 21.4 | 19.3 |
| 65° | 6477.8 | 1537.5 | 218.4 | 175.6 | 152.0 | 115.6 | 72.8 | 36.4 | 15.0 | 6.4 | 4.3 |
| 67.5° | 4520.5 | 948.6 | 182.0 | 143.5 | 124.2 | 83.5 | 45.0 | 15.0 | 6.4 | 0.0 | 0.0 |
| 70° | 2053.6 | 451.8 | 139.2 | 109.2 | 94.2 | 60.0 | 23.6 | 8.6 | 4.3 | 0.0 | 0.0 |
| 72.5° | 638.1 | 237.7 | 98.5 | 79.2 | 64.2 | 38.5 | 12.8 | 6.4 | 4.3 | 0.0 | 0.0 |
| 75° | 295.5 | 152.0 | 62.1 | 42.8 | 36.4 | 19.3 | 8.6 | 4.3 | 2.1 | 0.0 | 0.0 |
| 77.5° | 220.6 | 117.8 | 36.4 | 23.6 | 19.3 | 12.8 | 6.4 | 4.3 | 2.1 | 0.0 | 0.0 |
| 80° | 192.7 | 60.0 | 21.4 | 15.0 | 10.7 | 8.6 | 4.3 | 2.1 | 0.0 | 0.0 | 0.0 |
| 82.5° | 173.5 | 30.0 | 12.8 | 8.6 | 6.4 | 4.3 | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 |
| 85° | 94.2 | 17.1 | 8.6 | 6.4 | 4.3 | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 17.1 | 8.6 | 6.4 | 4.3 | 4.3 | 2.1 | 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)