

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: P454741

Luminaire Tested: **GLAN-SA5D-760-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5D-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28025 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

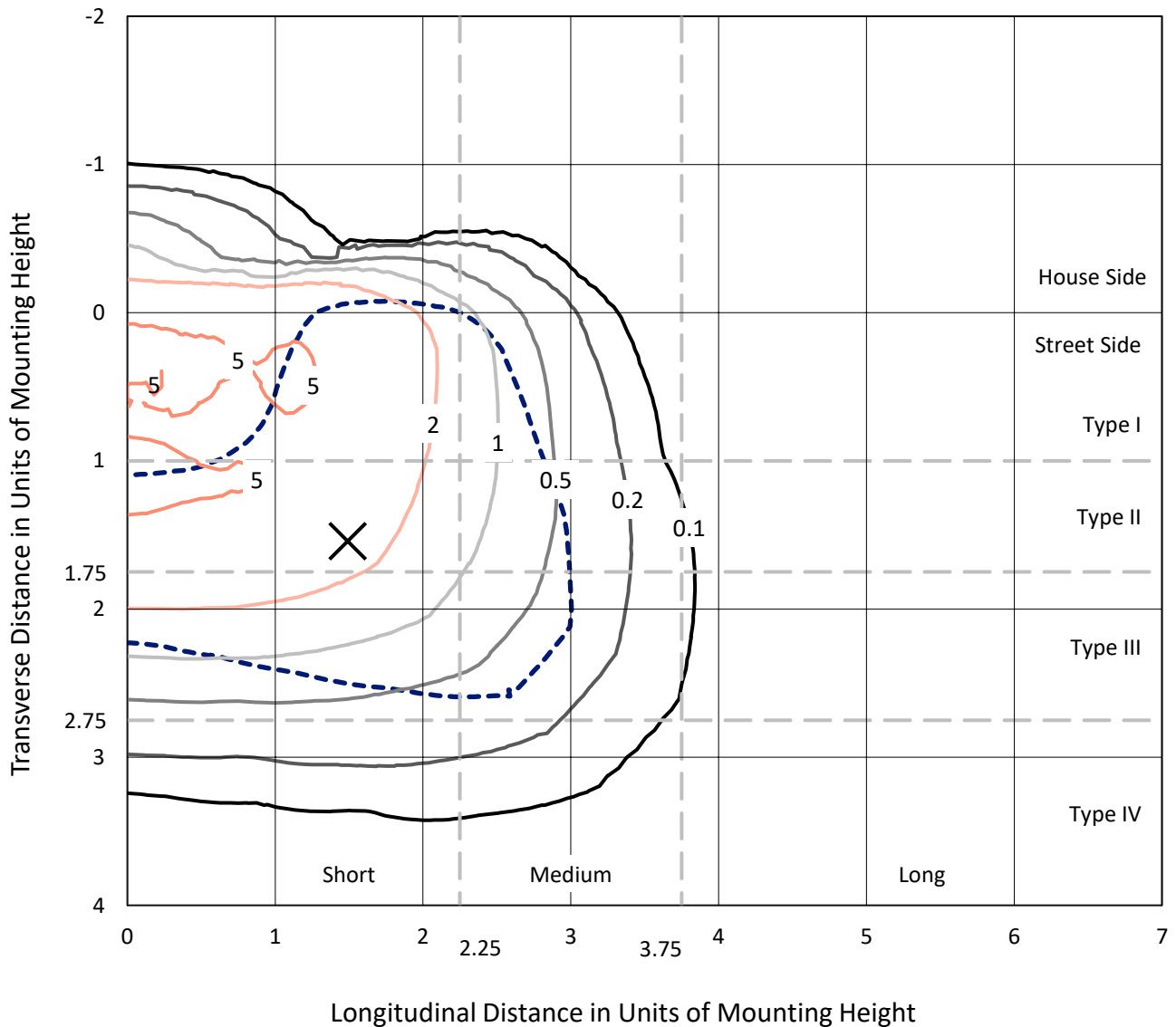
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

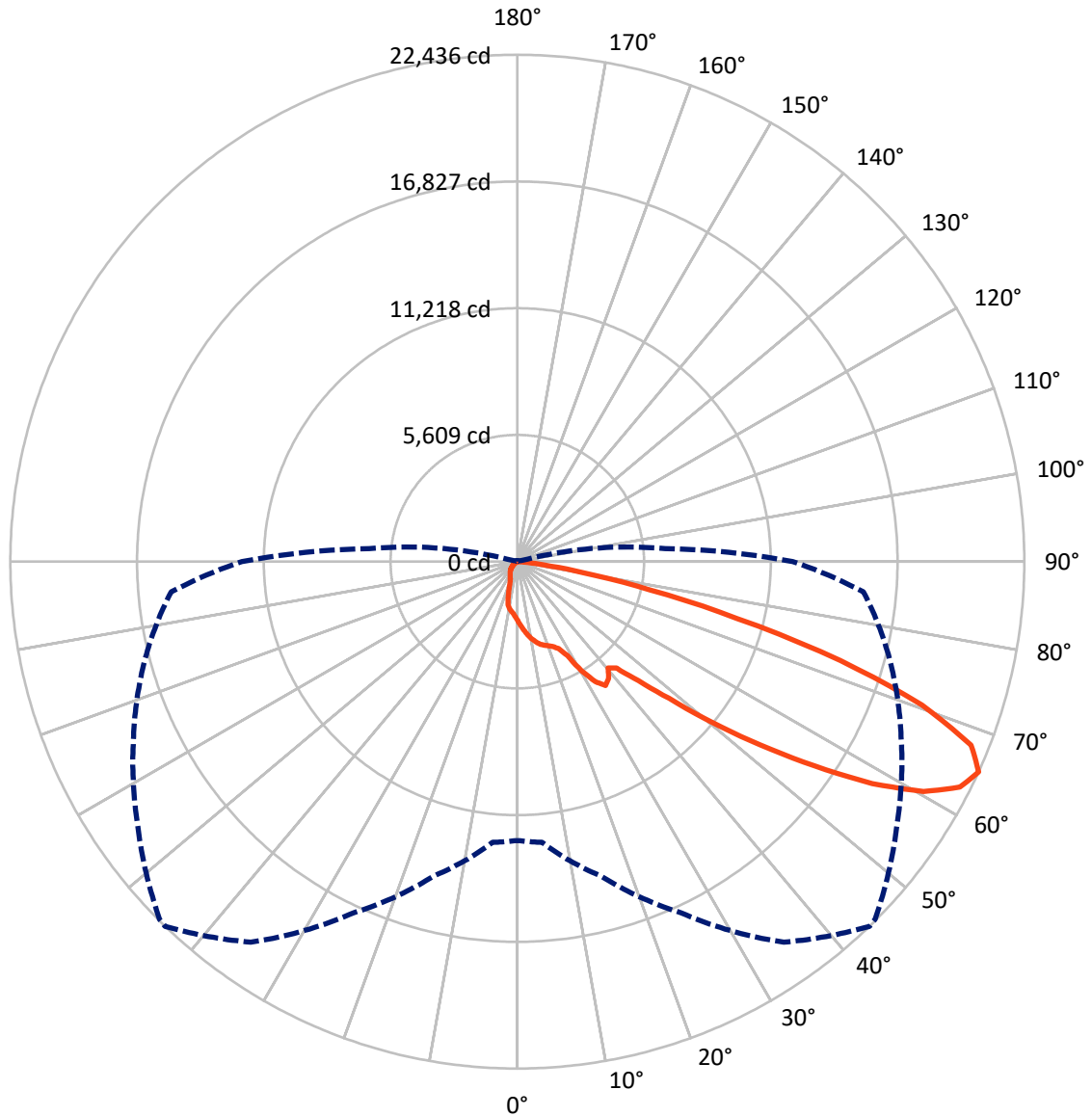
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2582.1 | 0.0 | 2582.1 |
| | % Fixture | 9.2 | 0.0 | 9.2 |
| Street Side | Lumens | 25442.9 | 0.0 | 25442.9 |
| | % Fixture | 90.8 | 0.0 | 90.8 |
| Total | Lumens | 28025.0 | 0.0 | 28025.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 259.4 | 0.9 |
| 10°-20° | 780.8 | 2.8 |
| 20°-30° | 1323.9 | 4.7 |
| 30°-40° | 2201.2 | 7.9 |
| 40°-50° | 3843.4 | 13.7 |
| 50°-60° | 7508.6 | 26.8 |
| 60°-70° | 8711.7 | 31.1 |
| 70°-80° | 3172.4 | 11.3 |
| 80°-90° | 223.5 | 0.8 |
| 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° | 28025.0 | 100.0 |
| 0°-180° | 28025.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P454741

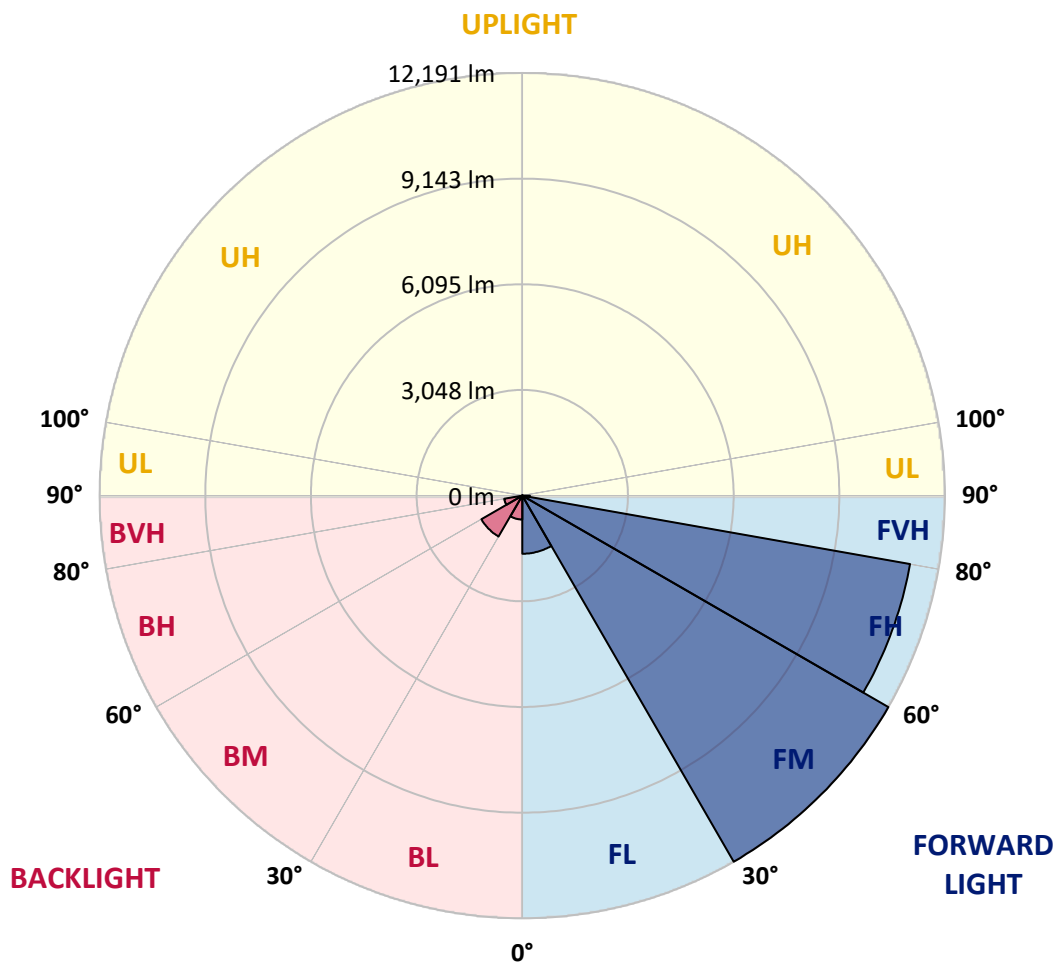
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1676.2 | 6.0 | | | |
| FM (30°-60°) | 12190.9 | 43.5 | | | |
| FH (60°-80°) | 11355.4 | 40.5 | | | G4/12000 |
| FVH (80°-90°) | 220.5 | 0.8 | | | G2/225 |
| BL (0°-30°) | 688.0 | 2.5 | B2/1000 | | |
| BM (30°-60°) | 1362.3 | 4.9 | B2/2500 | | |
| BH (60°-80°) | 528.8 | 1.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 3.0 | 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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2608.3 | 2608.3 | 2608.3 | 2608.3 | 2608.3 | 2608.3 | 2608.3 | 2608.3 | 2608.3 | 2608.3 | 2608.3 |
| 2.5° | 2935.9 | 2923.1 | 2916.7 | 2882.4 | 2856.7 | 2824.6 | 2824.6 | 2783.9 | 2736.8 | 2685.4 | 2638.3 |
| 5° | 3263.6 | 3242.2 | 3214.3 | 3184.3 | 3124.4 | 3038.7 | 3038.7 | 2953.1 | 2854.6 | 2766.8 | 2670.4 |
| 7.5° | 3578.4 | 3559.1 | 3512.0 | 3454.2 | 3355.7 | 3265.7 | 3259.3 | 3135.1 | 3017.3 | 2884.5 | 2747.5 |
| 10° | 3854.6 | 3839.6 | 3798.9 | 3687.6 | 3584.8 | 3467.0 | 3464.9 | 3325.7 | 3188.6 | 3025.9 | 2856.7 |
| 12.5° | 4047.3 | 4049.5 | 3996.0 | 3888.9 | 3756.1 | 3644.8 | 3636.2 | 3499.1 | 3355.7 | 3180.1 | 2972.3 |
| 15° | 4184.4 | 4184.4 | 4128.7 | 4008.8 | 3888.9 | 3790.4 | 3781.8 | 3661.9 | 3514.1 | 3323.5 | 3098.7 |
| 17.5° | 4222.9 | 4235.8 | 4175.8 | 4068.8 | 3972.4 | 3886.7 | 3884.6 | 3784.0 | 3666.2 | 3482.0 | 3227.2 |
| 20° | 4208.0 | 4220.8 | 4173.7 | 4090.2 | 4023.8 | 3974.5 | 3968.1 | 3927.4 | 3818.2 | 3644.8 | 3364.2 |
| 22.5° | 4175.8 | 4188.7 | 4154.4 | 4105.2 | 4073.0 | 4088.0 | 4077.3 | 4111.6 | 4053.8 | 3843.9 | 3527.0 |
| 25° | 4182.3 | 4195.1 | 4169.4 | 4141.6 | 4169.4 | 4261.5 | 4289.3 | 4437.1 | 4385.7 | 4096.6 | 3702.6 |
| 27.5° | 4383.6 | 4409.3 | 4372.9 | 4385.7 | 4484.2 | 4698.4 | 4751.9 | 5006.7 | 4779.7 | 4417.8 | 3976.7 |
| 30° | 4831.1 | 4814.0 | 4745.5 | 4807.6 | 5150.2 | 5604.2 | 5589.2 | 5548.5 | 5193.0 | 4788.3 | 4302.2 |
| 32.5° | 5238.0 | 5223.0 | 5218.7 | 5486.4 | 6107.4 | 6328.0 | 6317.3 | 5923.3 | 5563.5 | 5212.3 | 4623.4 |
| 35° | 5402.9 | 5345.1 | 5332.2 | 5981.1 | 7019.7 | 6728.5 | 6662.1 | 6077.4 | 6013.2 | 5674.9 | 4951.0 |
| 37.5° | 5899.7 | 5859.0 | 5659.9 | 6062.5 | 6655.6 | 6559.3 | 6507.9 | 6343.0 | 6492.9 | 6083.9 | 5321.5 |
| 40° | 6923.3 | 6809.8 | 6629.9 | 6235.9 | 6139.6 | 6180.2 | 6231.6 | 6683.5 | 7060.4 | 6642.8 | 5816.2 |
| 42.5° | 8195.3 | 8169.6 | 7835.6 | 7101.1 | 6379.4 | 6435.1 | 6501.5 | 7394.4 | 7876.3 | 7484.4 | 6623.5 |
| 45° | 9722.2 | 9758.6 | 9276.8 | 8409.5 | 7463.0 | 7510.1 | 7606.4 | 8443.8 | 8981.3 | 8792.8 | 7893.4 |
| 47.5° | 11109.9 | 11082.0 | 10919.3 | 10017.7 | 9144.0 | 9039.1 | 9195.4 | 9790.7 | 10510.3 | 10540.2 | 9469.5 |
| 50° | 12506.1 | 12653.9 | 12411.9 | 12058.5 | 11409.7 | 11189.1 | 11131.3 | 11422.5 | 12518.9 | 12375.5 | 11362.6 |
| 52.5° | 14512.6 | 14589.7 | 14135.7 | 14045.8 | 14193.6 | 13478.3 | 13420.5 | 13491.2 | 14472.0 | 13979.4 | 12780.2 |
| 55° | 15774.0 | 15729.0 | 15559.8 | 16262.2 | 16846.8 | 15953.8 | 15881.0 | 15596.2 | 16093.0 | 15112.2 | 14144.3 |
| 57.5° | 16172.3 | 16236.5 | 16630.5 | 17900.4 | 19283.8 | 18525.7 | 18393.0 | 17583.5 | 17262.3 | 16168.0 | 15399.2 |
| 60° | 15994.5 | 16112.3 | 16962.5 | 18851.2 | 20770.0 | 20656.5 | 20543.0 | 19183.2 | 18101.7 | 17050.3 | 16279.3 |
| 62.5° | 14728.9 | 14893.8 | 16253.6 | 18682.1 | 21273.2 | 21982.0 | 21840.7 | 20181.1 | 18660.6 | 17478.6 | 16433.5 |
| 65° | 12343.3 | 12465.4 | 14418.4 | 17146.6 | 20558.0 | 22436.0 | 22384.6 | 20493.7 | 18748.4 | 17086.7 | 15377.8 |
| 67.5° | 8799.2 | 9214.7 | 11024.2 | 14450.5 | 18442.2 | 21660.8 | 21748.6 | 20119.0 | 17924.0 | 15392.8 | 12735.2 |
| 70° | 5531.4 | 5814.0 | 7111.8 | 10345.4 | 14784.6 | 19003.3 | 19292.4 | 18403.7 | 15555.5 | 11998.6 | 8525.1 |
| 72.5° | 2638.3 | 2848.1 | 3773.2 | 6548.6 | 10435.3 | 14951.6 | 15180.8 | 15108.0 | 12028.6 | 7559.3 | 4398.5 |
| 75° | 1175.7 | 1254.9 | 1801.0 | 3342.8 | 6737.0 | 10049.8 | 10643.0 | 10741.5 | 7516.5 | 3698.3 | 1711.0 |
| 77.5° | 599.6 | 601.7 | 843.7 | 1618.9 | 3364.2 | 5996.1 | 6113.9 | 6458.6 | 4075.2 | 1629.6 | 595.3 |
| 80° | 319.1 | 340.5 | 447.6 | 764.5 | 1745.3 | 2953.1 | 2938.1 | 3229.3 | 1807.4 | 798.8 | 199.2 |
| 82.5° | 143.5 | 158.5 | 252.7 | 400.5 | 852.3 | 1120.0 | 1207.8 | 1321.3 | 775.2 | 509.7 | 87.8 |
| 85° | 42.8 | 51.4 | 124.2 | 201.3 | 308.4 | 323.4 | 361.9 | 466.8 | 439.0 | 361.9 | 45.0 |
| 87.5° | 6.4 | 6.4 | 51.4 | 55.7 | 45.0 | 57.8 | 60.0 | 66.4 | 141.3 | 132.8 | 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-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2608.3 | 2608.3 | 2608.3 | 2608.3 | 2608.3 | 2608.3 | 2608.3 | 2608.3 | 2608.3 | 2608.3 | 2608.3 |
| 2.5° | 2612.6 | 2597.6 | 2544.0 | 2499.1 | 2460.5 | 2437.0 | 2409.1 | 2392.0 | 2383.4 | 2377.0 | 2379.2 |
| 5° | 2623.3 | 2586.9 | 2494.8 | 2422.0 | 2366.3 | 2306.3 | 2265.7 | 2242.1 | 2231.4 | 2214.3 | 2214.3 |
| 7.5° | 2683.2 | 2625.4 | 2496.9 | 2385.6 | 2289.2 | 2207.8 | 2130.7 | 2102.9 | 2083.6 | 2079.4 | 2075.1 |
| 10° | 2768.9 | 2696.1 | 2520.5 | 2366.3 | 2229.3 | 2117.9 | 2008.7 | 1912.3 | 1837.4 | 1792.4 | 1786.0 |
| 12.5° | 2876.0 | 2771.0 | 2556.9 | 2353.5 | 2177.9 | 1980.8 | 1691.7 | 1496.9 | 1366.2 | 1325.6 | 1332.0 |
| 15° | 2974.5 | 2861.0 | 2593.3 | 2342.8 | 2083.6 | 1642.5 | 1314.9 | 1092.1 | 1025.8 | 1019.3 | 1021.5 |
| 17.5° | 3092.3 | 2957.3 | 2636.1 | 2327.8 | 1824.5 | 1254.9 | 976.5 | 916.5 | 929.4 | 950.8 | 948.7 |
| 20° | 3214.3 | 3060.1 | 2687.5 | 2237.8 | 1456.2 | 944.4 | 863.0 | 869.4 | 888.7 | 908.0 | 912.3 |
| 22.5° | 3345.0 | 3177.9 | 2747.5 | 2021.5 | 1111.4 | 822.3 | 818.0 | 826.6 | 845.9 | 867.3 | 871.6 |
| 25° | 3524.8 | 3325.7 | 2792.5 | 1738.9 | 841.6 | 760.2 | 768.8 | 783.8 | 800.9 | 824.5 | 828.7 |
| 27.5° | 3756.1 | 3524.8 | 2816.0 | 1370.5 | 728.1 | 704.5 | 706.7 | 728.1 | 749.5 | 770.9 | 770.9 |
| 30° | 4055.9 | 3762.5 | 2768.9 | 1036.5 | 672.4 | 651.0 | 642.4 | 655.3 | 683.1 | 704.5 | 706.7 |
| 32.5° | 4323.6 | 3987.4 | 2644.7 | 792.3 | 631.7 | 601.7 | 580.3 | 582.5 | 593.2 | 606.0 | 608.2 |
| 35° | 4591.3 | 4205.8 | 2432.7 | 666.0 | 588.9 | 554.6 | 522.5 | 505.4 | 496.8 | 490.4 | 496.8 |
| 37.5° | 4933.9 | 4477.8 | 2150.0 | 606.0 | 552.5 | 509.7 | 464.7 | 428.3 | 398.3 | 379.0 | 383.3 |
| 40° | 5375.1 | 4854.7 | 1816.0 | 567.5 | 518.2 | 466.8 | 406.9 | 359.8 | 308.4 | 291.2 | 282.7 |
| 42.5° | 6103.1 | 5426.4 | 1464.8 | 535.4 | 484.0 | 421.9 | 346.9 | 282.7 | 235.6 | 218.4 | 222.7 |
| 45° | 7253.1 | 6148.1 | 1128.5 | 501.1 | 449.7 | 372.6 | 291.2 | 222.7 | 184.2 | 175.6 | 179.9 |
| 47.5° | 8777.8 | 7081.8 | 869.4 | 462.6 | 406.9 | 319.1 | 229.1 | 175.6 | 152.0 | 149.9 | 147.8 |
| 50° | 10212.6 | 7951.2 | 726.0 | 419.7 | 355.5 | 265.5 | 188.4 | 147.8 | 132.8 | 130.6 | 130.6 |
| 52.5° | 11510.3 | 8574.4 | 591.0 | 370.5 | 299.8 | 218.4 | 158.5 | 130.6 | 117.8 | 111.4 | 111.4 |
| 55° | 12664.6 | 8981.3 | 479.7 | 310.5 | 235.6 | 173.5 | 137.1 | 117.8 | 102.8 | 94.2 | 92.1 |
| 57.5° | 13536.1 | 9030.5 | 359.8 | 248.4 | 175.6 | 134.9 | 117.8 | 102.8 | 85.7 | 75.0 | 70.7 |
| 60° | 13908.7 | 8604.4 | 265.5 | 188.4 | 130.6 | 107.1 | 94.2 | 83.5 | 64.2 | 53.5 | 51.4 |
| 62.5° | 13534.0 | 7775.6 | 197.0 | 143.5 | 100.6 | 79.2 | 66.4 | 62.1 | 45.0 | 32.1 | 30.0 |
| 65° | 12191.3 | 6578.5 | 156.3 | 109.2 | 75.0 | 57.8 | 42.8 | 40.7 | 27.8 | 15.0 | 12.8 |
| 67.5° | 9767.2 | 5152.3 | 124.2 | 81.4 | 53.5 | 38.5 | 27.8 | 25.7 | 15.0 | 4.3 | 4.3 |
| 70° | 6351.6 | 3293.6 | 100.6 | 60.0 | 34.3 | 25.7 | 17.1 | 12.8 | 8.6 | 2.1 | 0.0 |
| 72.5° | 3141.5 | 1539.7 | 81.4 | 47.1 | 23.6 | 12.8 | 6.4 | 4.3 | 6.4 | 0.0 | 0.0 |
| 75° | 1218.5 | 548.2 | 60.0 | 32.1 | 12.8 | 6.4 | 4.3 | 0.0 | 2.1 | 0.0 | 0.0 |
| 77.5° | 404.7 | 182.0 | 36.4 | 17.1 | 8.6 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 149.9 | 70.7 | 19.3 | 10.7 | 4.3 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 60.0 | 27.8 | 12.8 | 8.6 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 30.0 | 17.1 | 8.6 | 6.4 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 21.4 | 12.8 | 8.6 | 6.4 | 4.3 | 2.1 | 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)