

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: P454507

Luminaire Tested: **GLAN-SA5C-760-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454507
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-SA5C-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1050mA 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: 25353 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

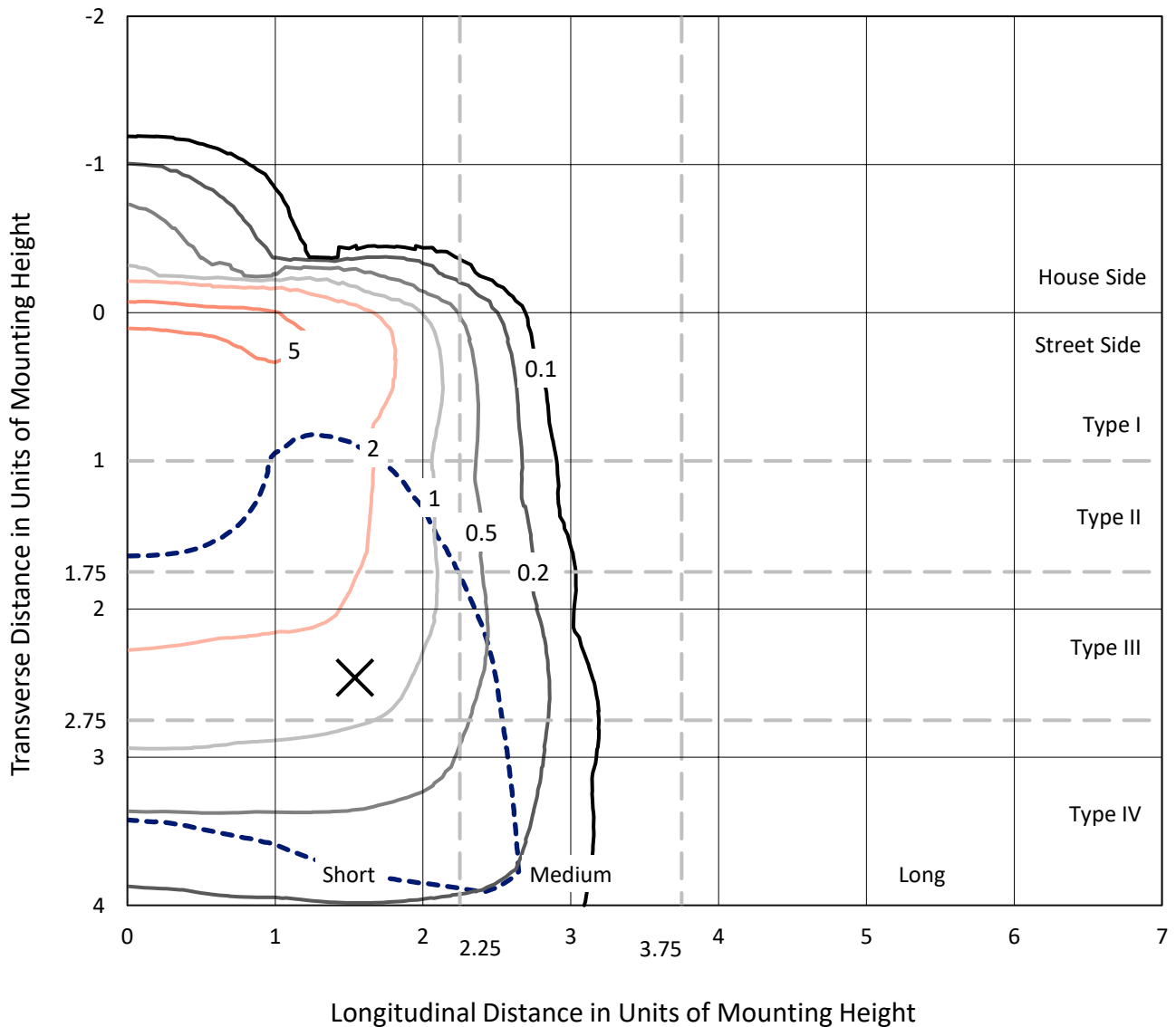
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

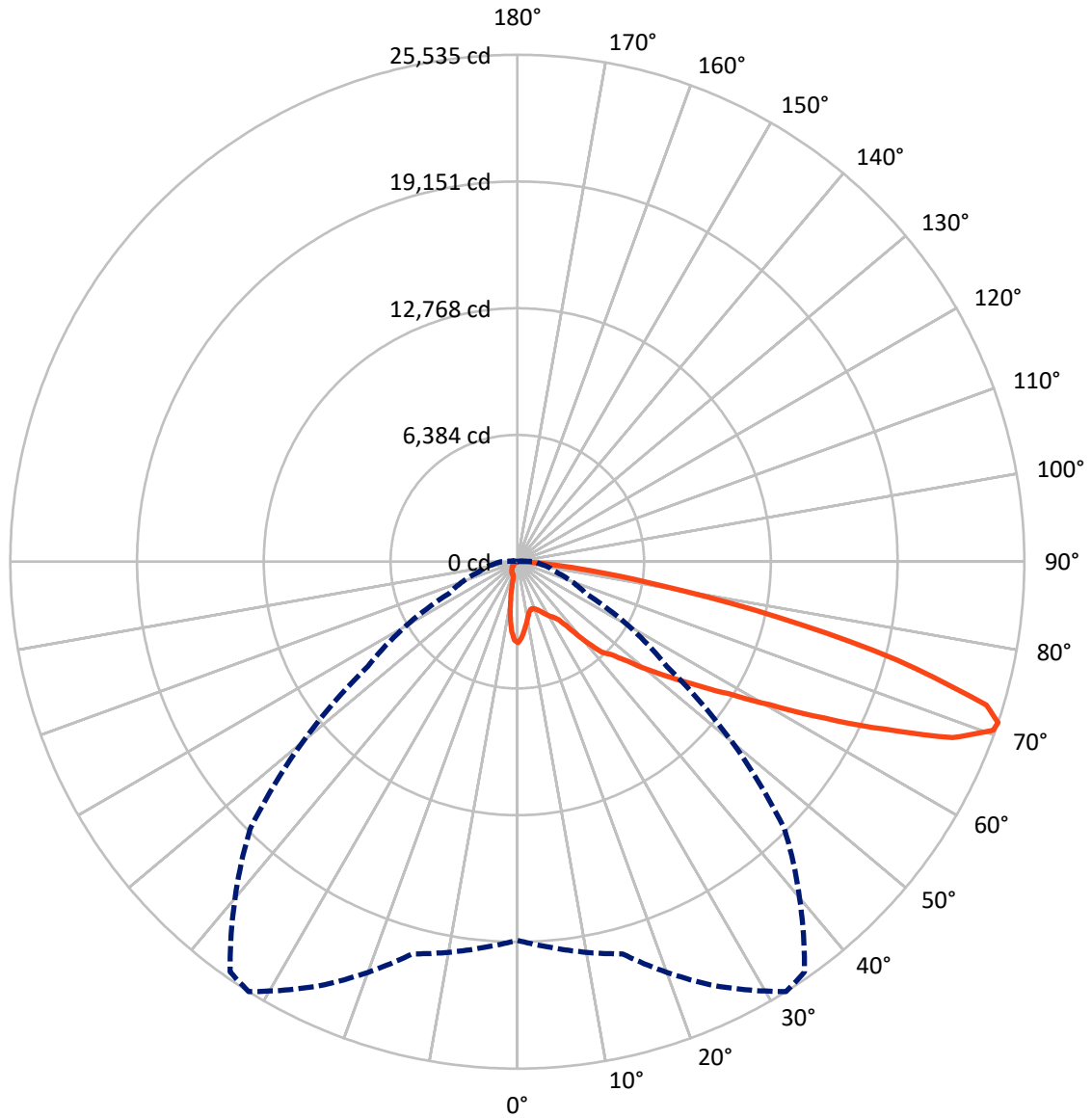
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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 | 2123.6 | 0.0 | 2123.6 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 23229.4 | 0.0 | 23229.4 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 25353.0 | 0.0 | 25353.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 331.5 | 1.3 |
| 10°-20° | 719.5 | 2.8 |
| 20°-30° | 1119.3 | 4.4 |
| 30°-40° | 1864.8 | 7.4 |
| 40°-50° | 3468.9 | 13.7 |
| 50°-60° | 5569.5 | 22.0 |
| 60°-70° | 7491.2 | 29.5 |
| 70°-80° | 4444.6 | 17.5 |
| 80°-90° | 343.5 | 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° | 25353.0 | 100.0 |
| 0°-180° | 25353.0 | 100.0 |



REPORT NUMBER: P454507

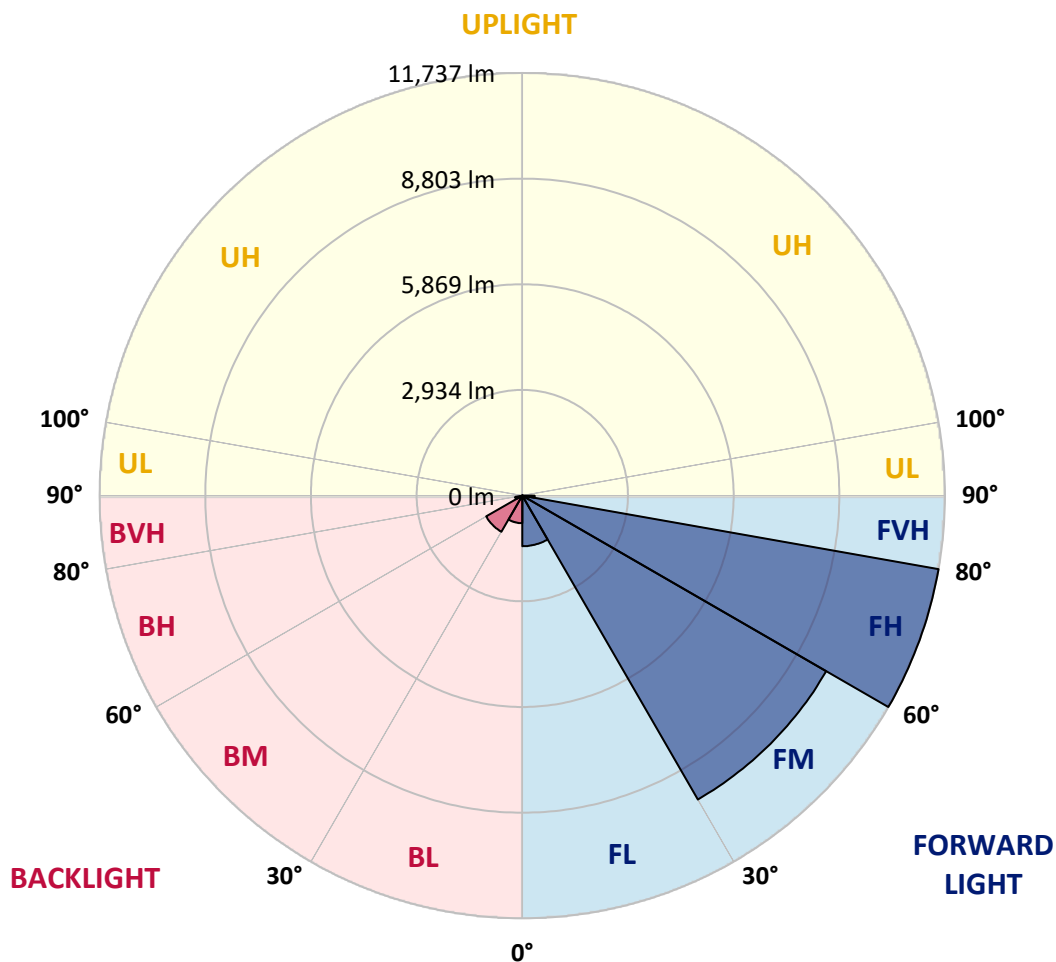
CATALOG NUMBER: GLAN-SA5C-760-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1405.2 | 5.5 | | | |
| FM | (30°-60°) | 9744.8 | 38.4 | | | |
| FH | (60°-80°) | 11737.2 | 46.3 | | | G4/12000 |
| FVH | (80°-90°) | 342.2 | 1.3 | | | G3/500 |
| BL | (0°-30°) | 765.2 | 3.0 | B2/1000 | | |
| BM | (30°-60°) | 1158.5 | 4.6 | B2/2500 | | |
| BH | (60°-80°) | 198.6 | 0.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 1.3 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 32° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4077.2 | 4077.2 | 4077.2 | 4077.2 | 4077.2 | 4077.2 | 4077.2 | 4077.2 | 4077.2 | 4077.2 | 4077.2 |
| 2.5° | 3781.3 | 3820.3 | 3814.4 | 3828.1 | 3861.1 | 3874.8 | 3911.7 | 3952.6 | 4009.0 | 4048.0 | 4073.3 |
| 5° | 3386.3 | 3415.5 | 3419.4 | 3487.5 | 3520.6 | 3557.5 | 3666.5 | 3785.2 | 3917.6 | 4022.7 | 4092.7 |
| 7.5° | 2964.0 | 2979.5 | 3010.7 | 3100.2 | 3183.9 | 3220.9 | 3386.3 | 3592.6 | 3800.8 | 3997.4 | 4123.9 |
| 10° | 2615.6 | 2633.1 | 2689.6 | 2784.9 | 2862.8 | 2911.4 | 3141.1 | 3399.9 | 3691.8 | 3983.7 | 4168.6 |
| 12.5° | 2417.1 | 2426.8 | 2448.2 | 2533.9 | 2633.1 | 2685.7 | 2932.8 | 3228.6 | 3604.2 | 3989.6 | 4244.5 |
| 15° | 2403.5 | 2399.6 | 2374.3 | 2409.3 | 2498.8 | 2553.3 | 2794.7 | 3111.9 | 3526.4 | 4009.0 | 4334.0 |
| 17.5° | 2475.5 | 2465.8 | 2405.4 | 2405.4 | 2479.4 | 2524.1 | 2736.3 | 3049.6 | 3487.5 | 4053.8 | 4460.5 |
| 20° | 2586.4 | 2570.8 | 2471.6 | 2463.8 | 2535.8 | 2582.5 | 2771.3 | 3053.5 | 3495.3 | 4137.5 | 4629.9 |
| 22.5° | 2726.5 | 2709.0 | 2559.2 | 2563.1 | 2640.9 | 2687.6 | 2872.5 | 3123.6 | 3543.9 | 4240.6 | 4810.9 |
| 25° | 2909.5 | 2890.0 | 2712.9 | 2705.1 | 2786.9 | 2827.7 | 3022.4 | 3248.1 | 3612.0 | 4369.1 | 5048.3 |
| 27.5° | 3152.7 | 3111.9 | 2899.7 | 2888.1 | 2975.6 | 3028.2 | 3203.3 | 3415.5 | 3732.7 | 4546.2 | 5367.4 |
| 30° | 3353.2 | 3308.4 | 3106.0 | 3074.9 | 3168.3 | 3209.2 | 3390.2 | 3641.2 | 3970.1 | 4855.6 | 5809.2 |
| 32.5° | 3615.9 | 3549.8 | 3312.3 | 3230.6 | 3329.8 | 3382.4 | 3660.7 | 4061.6 | 4322.4 | 5182.6 | 6334.7 |
| 35° | 4207.5 | 4166.7 | 3876.7 | 3590.6 | 3584.8 | 3651.0 | 4059.6 | 4485.8 | 4684.4 | 5692.5 | 7050.9 |
| 37.5° | 5054.1 | 5024.9 | 4717.4 | 4334.0 | 4223.1 | 4192.0 | 4544.2 | 4952.9 | 5262.4 | 6393.1 | 7883.8 |
| 40° | 6036.9 | 5968.8 | 5686.6 | 5361.6 | 5217.6 | 5126.1 | 5116.4 | 5647.7 | 6017.5 | 7344.7 | 8751.8 |
| 42.5° | 6741.4 | 6616.9 | 6274.3 | 6251.0 | 6219.9 | 6124.5 | 5848.1 | 6663.6 | 6992.5 | 8368.4 | 9680.1 |
| 45° | 7481.0 | 7292.2 | 6782.3 | 6694.7 | 6683.0 | 6677.2 | 6953.5 | 7866.3 | 8055.1 | 9477.7 | 10633.7 |
| 47.5° | 8055.1 | 7905.2 | 7486.8 | 7447.9 | 7496.5 | 7628.9 | 8415.1 | 9143.0 | 9104.0 | 10466.3 | 11433.6 |
| 50° | 8819.9 | 8707.0 | 8241.9 | 8315.8 | 8566.9 | 8782.9 | 10063.5 | 10534.4 | 9966.2 | 11244.8 | 12015.5 |
| 52.5° | 9722.9 | 9514.7 | 9082.6 | 9283.1 | 9668.4 | 10028.4 | 11813.1 | 11752.7 | 10571.4 | 11830.6 | 12449.4 |
| 55° | 10505.3 | 10357.3 | 10209.4 | 10417.7 | 10993.7 | 11443.3 | 13393.3 | 12665.5 | 11011.2 | 12301.5 | 12640.2 |
| 57.5° | 11828.6 | 11793.6 | 11641.8 | 11853.9 | 12552.6 | 13019.7 | 14808.2 | 13373.9 | 11293.4 | 12546.7 | 12416.4 |
| 60° | 13786.4 | 13730.0 | 13447.8 | 13718.3 | 14629.1 | 15362.8 | 16112.1 | 14010.2 | 11357.7 | 12451.4 | 11772.2 |
| 62.5° | 16141.3 | 15948.6 | 15707.3 | 16106.2 | 17355.7 | 17678.7 | 17340.1 | 14387.8 | 11118.3 | 11692.4 | 10219.2 |
| 65° | 18340.4 | 18141.9 | 18147.7 | 18988.5 | 20348.8 | 20568.7 | 18772.4 | 14331.4 | 10417.7 | 9791.0 | 7537.4 |
| 67.5° | 20023.8 | 19990.7 | 20228.2 | 21868.7 | 23647.5 | 23495.7 | 20053.0 | 13486.7 | 8341.1 | 6346.4 | 4005.2 |
| 70° | 20109.4 | 20173.7 | 20854.8 | 23624.2 | 25430.2 | 25188.9 | 19944.0 | 10962.6 | 5200.1 | 2919.2 | 1578.3 |
| 71° | 19074.1 | 19506.1 | 20448.1 | 23569.7 | 25535.3 | 25221.9 | 19025.4 | 9181.9 | 3814.4 | 2035.7 | 1138.5 |
| 72.5° | 16254.1 | 16481.8 | 18517.5 | 22182.1 | 24704.3 | 24034.8 | 16695.9 | 6435.9 | 2442.4 | 1245.5 | 653.9 |
| 75° | 8952.2 | 9512.7 | 12400.8 | 17402.4 | 19759.1 | 19171.4 | 10880.9 | 3057.4 | 1218.3 | 681.1 | 270.5 |
| 77.5° | 4262.0 | 4153.1 | 6050.5 | 10349.6 | 13397.2 | 13366.1 | 5482.3 | 1358.4 | 710.3 | 461.2 | 136.2 |
| 80° | 1218.3 | 1370.1 | 2315.9 | 4919.8 | 7438.1 | 7519.9 | 2105.7 | 655.8 | 492.4 | 360.0 | 70.1 |
| 82.5° | 367.8 | 375.6 | 850.5 | 2175.8 | 3699.6 | 3487.5 | 790.1 | 334.7 | 354.2 | 286.1 | 40.9 |
| 85° | 64.2 | 79.8 | 251.1 | 766.8 | 1410.9 | 1070.4 | 198.5 | 159.6 | 233.5 | 188.8 | 23.4 |
| 87.5° | 3.9 | 5.8 | 83.7 | 87.6 | 124.6 | 72.0 | 35.0 | 23.4 | 50.6 | 50.6 | 13.6 |
| 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-SA5C-760-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4077.2 | 4077.2 | 4077.2 | 4077.2 | 4077.2 | 4077.2 | 4077.2 | 4077.2 | 4077.2 | 4077.2 | 4077.2 |
| 2.5° | 4090.8 | 4102.5 | 4094.7 | 4077.2 | 4048.0 | 4012.9 | 3966.2 | 3927.3 | 3894.2 | 3876.7 | 3898.1 |
| 5° | 4116.1 | 4131.7 | 4092.7 | 4005.2 | 3872.8 | 3728.8 | 3565.3 | 3438.8 | 3339.6 | 3308.4 | 3296.8 |
| 7.5° | 4155.0 | 4164.7 | 4059.6 | 3865.0 | 3584.8 | 3244.2 | 2946.5 | 2695.4 | 2500.8 | 2442.4 | 2356.8 |
| 10° | 4205.6 | 4199.8 | 4001.3 | 3639.3 | 3146.9 | 2635.1 | 2173.8 | 1831.3 | 1572.5 | 1479.1 | 1471.3 |
| 12.5° | 4283.4 | 4252.3 | 3927.3 | 3331.8 | 2625.3 | 1955.9 | 1385.7 | 1084.0 | 920.5 | 866.0 | 854.4 |
| 15° | 4380.8 | 4306.8 | 3810.5 | 2971.8 | 2010.4 | 1263.0 | 854.4 | 762.9 | 741.5 | 737.6 | 733.7 |
| 17.5° | 4495.6 | 4378.8 | 3656.8 | 2530.0 | 1412.9 | 819.3 | 714.2 | 712.3 | 714.2 | 710.3 | 708.4 |
| 20° | 4651.3 | 4454.7 | 3473.9 | 2006.5 | 934.1 | 690.9 | 681.1 | 681.1 | 683.1 | 681.1 | 681.1 |
| 22.5° | 4816.7 | 4544.2 | 3248.1 | 1531.6 | 704.5 | 655.8 | 653.9 | 657.8 | 661.7 | 659.7 | 659.7 |
| 25° | 5021.0 | 4661.0 | 2950.3 | 1049.0 | 630.5 | 626.7 | 628.6 | 636.4 | 644.2 | 646.1 | 644.2 |
| 27.5° | 5316.8 | 4805.0 | 2631.2 | 722.0 | 578.0 | 581.9 | 601.4 | 620.8 | 632.5 | 634.4 | 634.4 |
| 30° | 5649.6 | 4964.6 | 2214.7 | 585.8 | 535.2 | 535.2 | 558.5 | 595.5 | 620.8 | 624.7 | 626.7 |
| 32.5° | 6077.8 | 5149.5 | 1753.5 | 527.4 | 494.3 | 490.4 | 511.8 | 556.6 | 603.3 | 616.9 | 616.9 |
| 35° | 6607.1 | 5367.4 | 1303.9 | 490.4 | 465.1 | 455.4 | 467.1 | 504.0 | 564.4 | 603.3 | 607.2 |
| 37.5° | 7228.0 | 5573.7 | 953.6 | 457.3 | 437.9 | 424.3 | 432.0 | 461.2 | 509.9 | 568.3 | 583.8 |
| 40° | 7802.1 | 5756.7 | 712.3 | 430.1 | 410.6 | 400.9 | 406.7 | 420.4 | 461.2 | 515.7 | 525.5 |
| 42.5° | 8428.7 | 5898.7 | 566.3 | 400.9 | 383.4 | 379.5 | 379.5 | 385.3 | 412.6 | 443.7 | 445.7 |
| 45° | 9053.4 | 5949.3 | 474.9 | 365.9 | 354.2 | 358.1 | 356.1 | 352.3 | 363.9 | 360.0 | 360.0 |
| 47.5° | 9499.1 | 5889.0 | 393.1 | 332.8 | 332.8 | 338.6 | 328.9 | 315.3 | 309.4 | 286.1 | 288.0 |
| 50° | 9804.6 | 5669.1 | 323.1 | 293.9 | 309.4 | 317.2 | 297.8 | 276.4 | 254.9 | 229.6 | 223.8 |
| 52.5° | 9931.1 | 5277.9 | 264.7 | 243.3 | 274.4 | 284.1 | 260.8 | 235.5 | 202.4 | 181.0 | 175.2 |
| 55° | 9849.4 | 4795.3 | 219.9 | 198.5 | 231.6 | 243.3 | 219.9 | 190.7 | 153.7 | 130.4 | 126.5 |
| 57.5° | 9489.4 | 4219.2 | 186.8 | 157.6 | 184.9 | 192.7 | 177.1 | 146.0 | 109.0 | 85.6 | 85.6 |
| 60° | 8866.6 | 3623.7 | 151.8 | 124.6 | 138.2 | 149.9 | 134.3 | 105.1 | 74.0 | 52.5 | 48.7 |
| 62.5° | 7603.6 | 2942.6 | 122.6 | 97.3 | 97.3 | 107.0 | 93.4 | 75.9 | 46.7 | 27.2 | 25.3 |
| 65° | 5490.1 | 2018.1 | 97.3 | 72.0 | 70.1 | 70.1 | 58.4 | 50.6 | 27.2 | 11.7 | 7.8 |
| 67.5° | 2983.4 | 1138.5 | 77.8 | 54.5 | 48.7 | 46.7 | 37.0 | 29.2 | 11.7 | 1.9 | 0.0 |
| 70° | 1173.5 | 437.9 | 60.3 | 37.0 | 31.1 | 29.2 | 19.5 | 13.6 | 7.8 | 0.0 | 0.0 |
| 71° | 796.0 | 301.7 | 52.5 | 31.1 | 25.3 | 21.4 | 15.6 | 11.7 | 5.8 | 0.0 | 0.0 |
| 72.5° | 455.4 | 186.8 | 40.9 | 23.4 | 19.5 | 15.6 | 11.7 | 7.8 | 5.8 | 0.0 | 0.0 |
| 75° | 198.5 | 95.4 | 25.3 | 17.5 | 13.6 | 9.7 | 7.8 | 5.8 | 1.9 | 0.0 | 0.0 |
| 77.5° | 101.2 | 52.5 | 17.5 | 13.6 | 7.8 | 5.8 | 3.9 | 1.9 | 0.0 | 0.0 | 0.0 |
| 80° | 56.4 | 27.2 | 11.7 | 7.8 | 5.8 | 3.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 |
| 82.5° | 31.1 | 15.6 | 5.8 | 3.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 19.5 | 9.7 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 9.7 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 1.9 | 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)