

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: P455901

Luminaire Tested: **GLAN-SA7A-760-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455901
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-SA7A-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 615mA 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: 23042 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

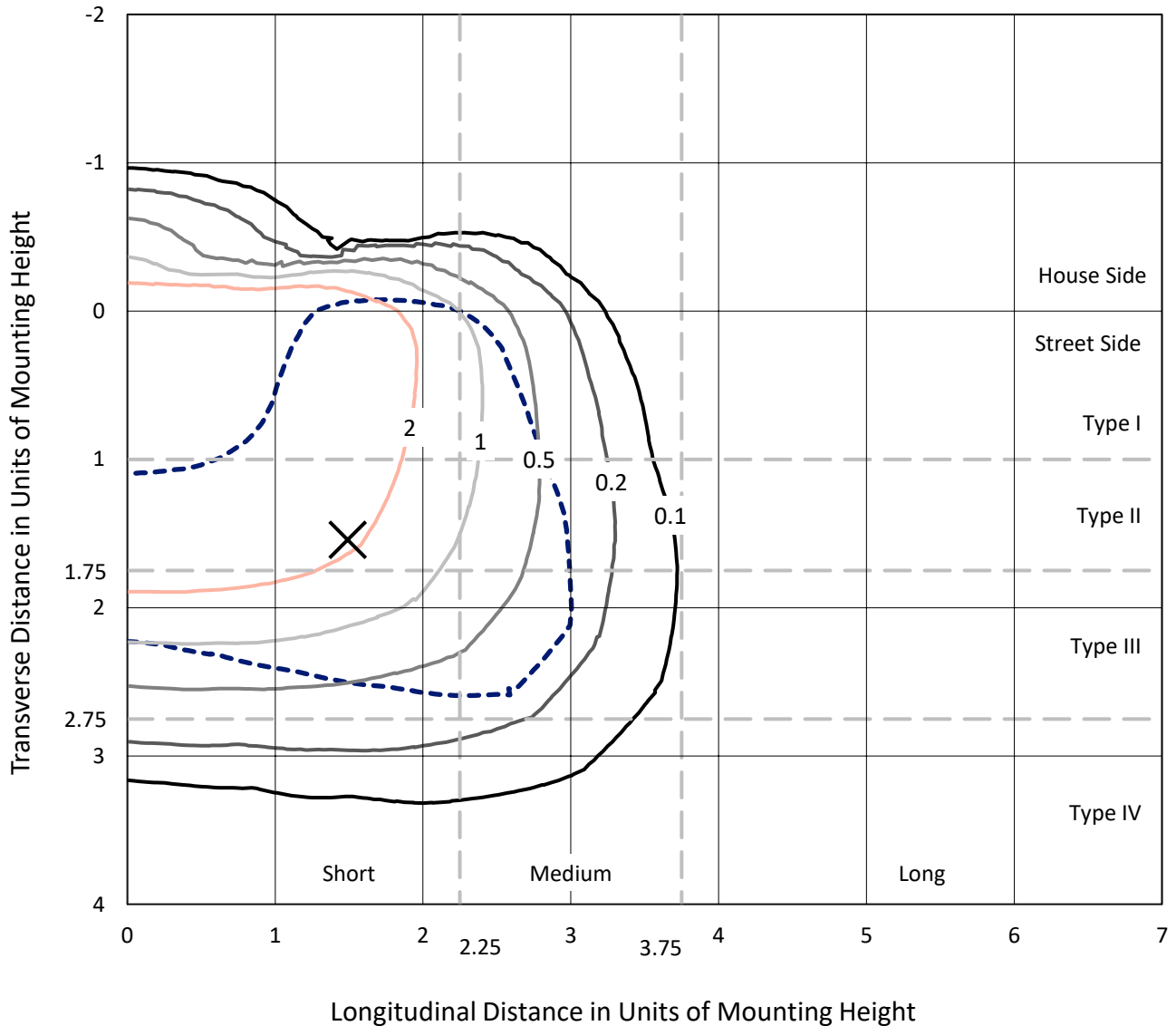
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

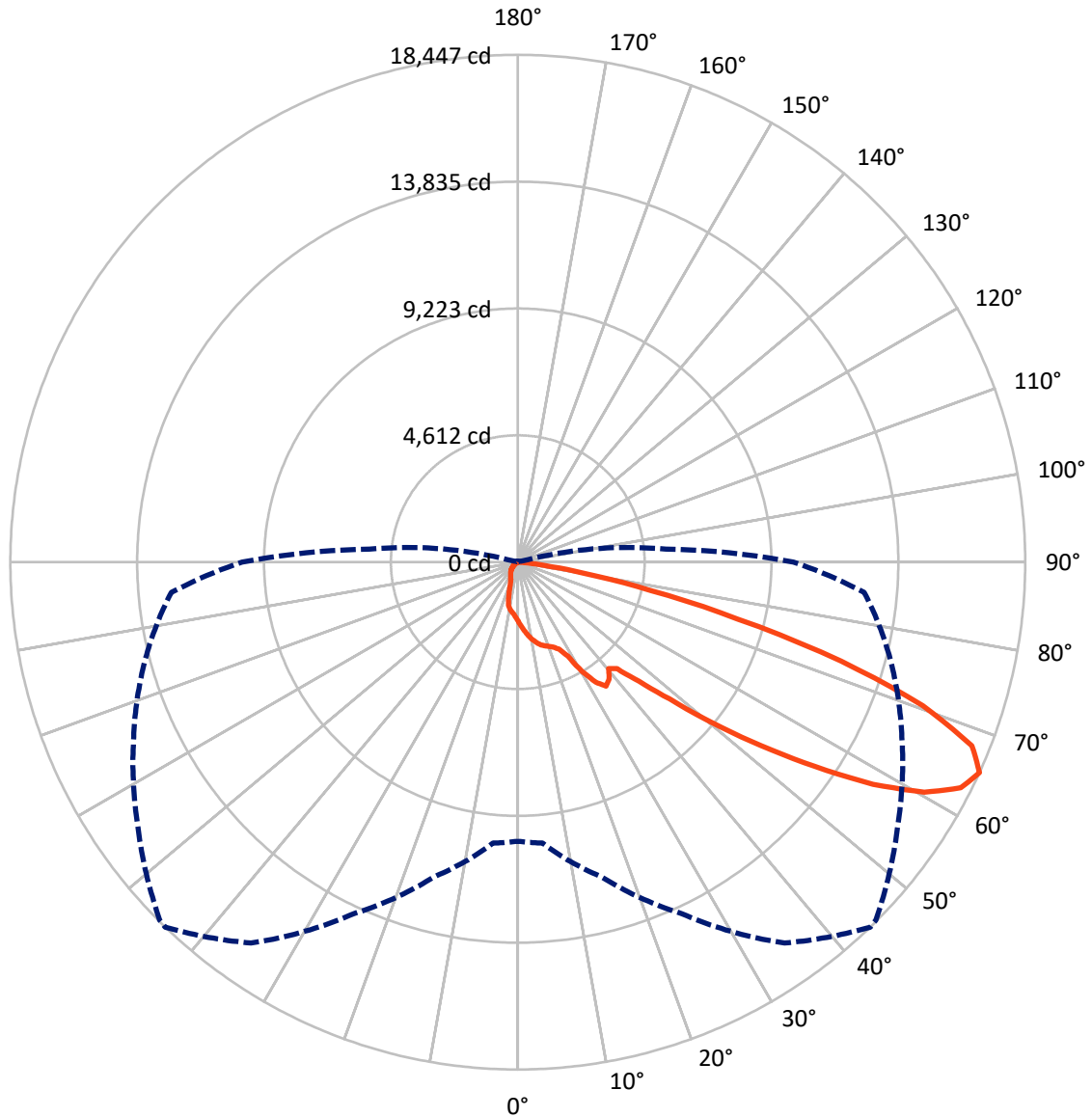
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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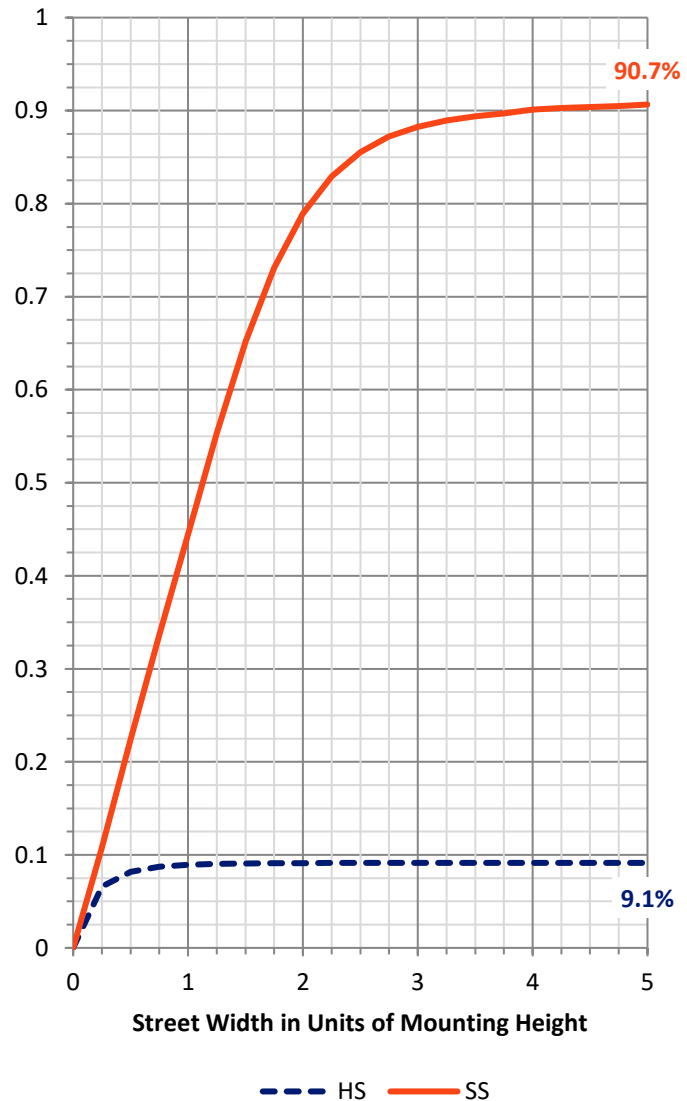
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2123.0 | 0.0 | 2123.0 |
| | % Fixture | 9.2 | 0.0 | 9.2 |
| Street Side | Lumens | 20919.0 | 0.0 | 20919.0 |
| | % Fixture | 90.8 | 0.0 | 90.8 |
| Total | Lumens | 23042.0 | 0.0 | 23042.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 213.3 | 0.9 |
| 10°-20° | 641.9 | 2.8 |
| 20°-30° | 1088.5 | 4.7 |
| 30°-40° | 1809.8 | 7.9 |
| 40°-50° | 3160.0 | 13.7 |
| 50°-60° | 6173.5 | 26.8 |
| 60°-70° | 7162.8 | 31.1 |
| 70°-80° | 2608.3 | 11.3 |
| 80°-90° | 183.8 | 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° | 23042.0 | 100.0 |
| 0°-180° | 23042.0 | 100.0 |



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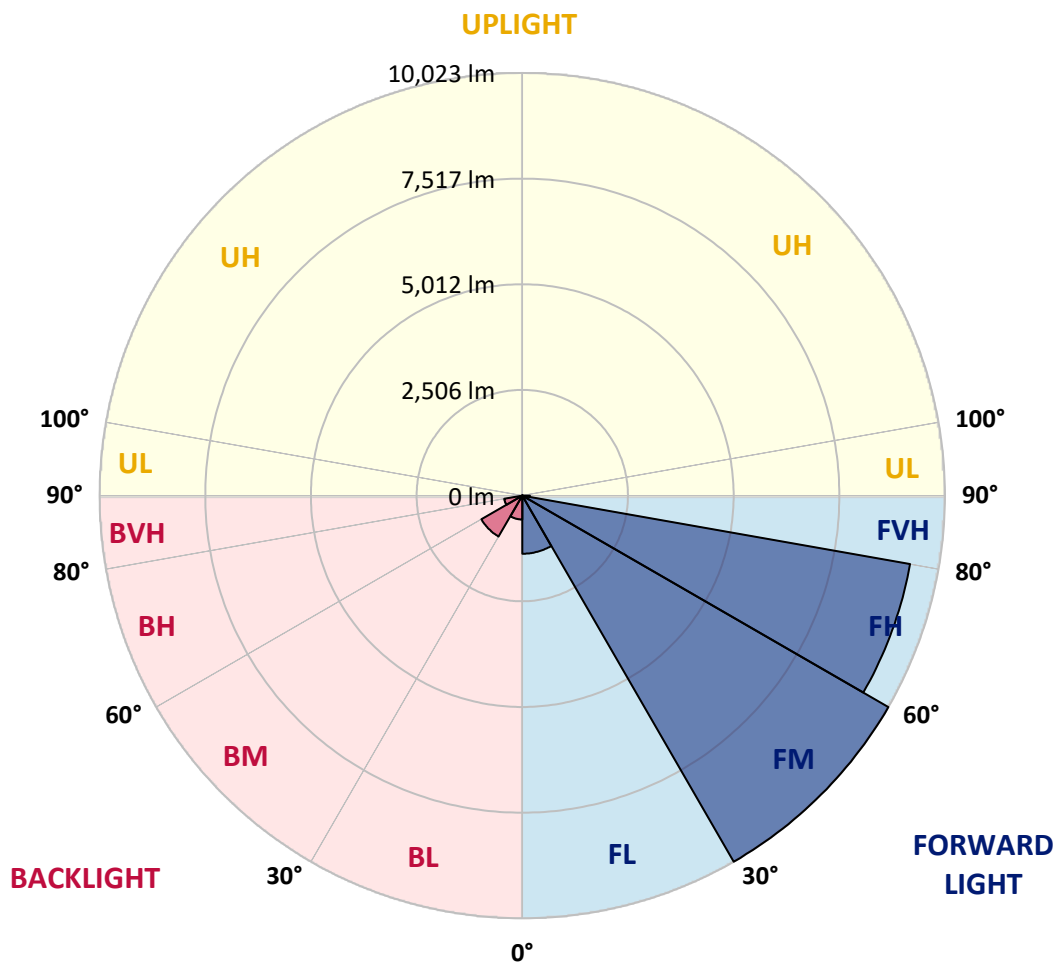
CATALOG NUMBER: GLAN-SA7A-760-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1378.1 | 6.0 | | | |
| FM (30°-60°) | 10023.3 | 43.5 | | | |
| FH (60°-80°) | 9336.3 | 40.5 | | | G4/12000 |
| FVH (80°-90°) | 181.3 | 0.8 | | | G2/225 |
| BL (0°-30°) | 565.6 | 2.5 | B2/1000 | | |
| BM (30°-60°) | 1120.1 | 4.9 | B2/2500 | | |
| BH (60°-80°) | 434.8 | 1.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.5 | 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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2144.5 | 2144.5 | 2144.5 | 2144.5 | 2144.5 | 2144.5 | 2144.5 | 2144.5 | 2144.5 | 2144.5 | 2144.5 |
| 2.5° | 2413.9 | 2403.3 | 2398.1 | 2369.9 | 2348.8 | 2322.4 | 2322.4 | 2288.9 | 2250.2 | 2207.9 | 2169.2 |
| 5° | 2683.3 | 2665.7 | 2642.8 | 2618.1 | 2568.8 | 2498.4 | 2498.4 | 2428.0 | 2347.0 | 2274.8 | 2195.6 |
| 7.5° | 2942.1 | 2926.3 | 2887.5 | 2840.0 | 2759.0 | 2685.1 | 2679.8 | 2577.7 | 2480.8 | 2371.7 | 2259.0 |
| 10° | 3169.2 | 3156.9 | 3123.5 | 3031.9 | 2947.4 | 2850.6 | 2848.8 | 2734.4 | 2621.7 | 2487.9 | 2348.8 |
| 12.5° | 3327.7 | 3329.5 | 3285.5 | 3197.4 | 3088.3 | 2996.7 | 2989.7 | 2877.0 | 2759.0 | 2614.6 | 2443.8 |
| 15° | 3440.4 | 3440.4 | 3394.6 | 3296.0 | 3197.4 | 3116.4 | 3109.4 | 3010.8 | 2889.3 | 2732.6 | 2547.7 |
| 17.5° | 3472.1 | 3482.6 | 3433.3 | 3345.3 | 3266.1 | 3195.7 | 3193.9 | 3111.1 | 3014.3 | 2862.9 | 2653.4 |
| 20° | 3459.8 | 3470.3 | 3431.6 | 3362.9 | 3308.3 | 3267.8 | 3262.6 | 3229.1 | 3139.3 | 2996.7 | 2766.0 |
| 22.5° | 3433.3 | 3443.9 | 3415.7 | 3375.2 | 3348.8 | 3361.2 | 3352.4 | 3380.5 | 3333.0 | 3160.4 | 2899.9 |
| 25° | 3438.6 | 3449.2 | 3428.1 | 3405.2 | 3428.1 | 3503.8 | 3526.7 | 3648.2 | 3605.9 | 3368.2 | 3044.2 |
| 27.5° | 3604.1 | 3625.3 | 3595.3 | 3605.9 | 3686.9 | 3863.0 | 3907.0 | 4116.5 | 3929.9 | 3632.3 | 3269.6 |
| 30° | 3972.1 | 3958.0 | 3901.7 | 3952.8 | 4234.5 | 4607.7 | 4595.4 | 4562.0 | 4269.7 | 3936.9 | 3537.2 |
| 32.5° | 4306.7 | 4294.3 | 4290.8 | 4510.9 | 5021.5 | 5202.8 | 5194.0 | 4870.1 | 4574.3 | 4285.5 | 3801.3 |
| 35° | 4442.2 | 4394.7 | 4384.1 | 4917.6 | 5771.5 | 5532.1 | 5477.5 | 4996.8 | 4944.0 | 4665.8 | 4070.7 |
| 37.5° | 4850.7 | 4817.3 | 4653.5 | 4984.5 | 5472.2 | 5393.0 | 5350.7 | 5215.2 | 5338.4 | 5002.1 | 4375.3 |
| 40° | 5692.3 | 5599.0 | 5451.1 | 5127.1 | 5047.9 | 5081.4 | 5123.6 | 5495.1 | 5805.0 | 5461.7 | 4782.0 |
| 42.5° | 6738.2 | 6717.0 | 6442.4 | 5838.5 | 5245.1 | 5290.9 | 5345.5 | 6079.7 | 6475.8 | 6153.6 | 5445.8 |
| 45° | 7993.5 | 8023.5 | 7627.3 | 6914.2 | 6136.0 | 6174.7 | 6254.0 | 6942.4 | 7384.3 | 7229.4 | 6489.9 |
| 47.5° | 9134.5 | 9111.6 | 8977.8 | 8236.5 | 7518.2 | 7431.9 | 7560.4 | 8049.9 | 8641.5 | 8666.1 | 7785.8 |
| 50° | 10282.4 | 10403.9 | 10205.0 | 9914.5 | 9381.0 | 9199.6 | 9152.1 | 9391.5 | 10293.0 | 10175.0 | 9342.2 |
| 52.5° | 11932.2 | 11995.6 | 11622.3 | 11548.4 | 11669.9 | 11081.8 | 11034.3 | 11092.4 | 11898.8 | 11493.8 | 10507.8 |
| 55° | 12969.3 | 12932.3 | 12793.2 | 13370.7 | 13851.4 | 13117.2 | 13057.3 | 12823.1 | 13231.6 | 12425.2 | 11629.4 |
| 57.5° | 13296.7 | 13349.6 | 13673.5 | 14717.6 | 15855.0 | 15231.7 | 15122.6 | 14457.0 | 14192.9 | 13293.2 | 12661.1 |
| 60° | 13150.6 | 13247.4 | 13946.4 | 15499.4 | 17077.0 | 16983.6 | 16890.3 | 15772.3 | 14883.1 | 14018.6 | 13384.8 |
| 62.5° | 12110.0 | 12245.6 | 13363.7 | 15360.3 | 17490.7 | 18073.5 | 17957.3 | 16592.8 | 15342.7 | 14370.8 | 13511.6 |
| 65° | 10148.6 | 10249.0 | 11854.7 | 14097.9 | 16902.6 | 18446.8 | 18404.5 | 16849.8 | 15414.9 | 14048.6 | 12643.5 |
| 67.5° | 7234.7 | 7576.3 | 9064.0 | 11881.2 | 15163.1 | 17809.4 | 17881.6 | 16541.7 | 14737.0 | 12655.9 | 10470.8 |
| 70° | 4547.9 | 4780.3 | 5847.3 | 8505.9 | 12155.8 | 15624.4 | 15862.1 | 15131.4 | 12789.7 | 9865.2 | 7009.3 |
| 72.5° | 2169.2 | 2341.7 | 3102.3 | 5384.2 | 8579.9 | 12293.2 | 12481.5 | 12421.7 | 9889.8 | 6215.2 | 3616.5 |
| 75° | 966.6 | 1031.8 | 1480.7 | 2748.4 | 5539.1 | 8262.9 | 8750.6 | 8831.6 | 6180.0 | 3040.7 | 1406.8 |
| 77.5° | 493.0 | 494.8 | 693.7 | 1331.1 | 2766.0 | 4929.9 | 5026.8 | 5310.2 | 3350.6 | 1339.9 | 489.5 |
| 80° | 262.3 | 280.0 | 368.0 | 628.6 | 1435.0 | 2428.0 | 2415.7 | 2655.1 | 1486.0 | 656.7 | 163.7 |
| 82.5° | 118.0 | 130.3 | 207.8 | 329.2 | 700.8 | 920.8 | 993.0 | 1086.3 | 637.4 | 419.0 | 72.2 |
| 85° | 35.2 | 42.3 | 102.1 | 165.5 | 253.5 | 265.9 | 297.6 | 383.8 | 360.9 | 297.6 | 37.0 |
| 87.5° | 5.3 | 5.3 | 42.3 | 45.8 | 37.0 | 47.5 | 49.3 | 54.6 | 116.2 | 109.2 | 19.4 |
| 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-SA7A-760-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2144.5 | 2144.5 | 2144.5 | 2144.5 | 2144.5 | 2144.5 | 2144.5 | 2144.5 | 2144.5 | 2144.5 | 2144.5 |
| 2.5° | 2148.0 | 2135.7 | 2091.7 | 2054.7 | 2023.0 | 2003.7 | 1980.8 | 1966.7 | 1959.7 | 1954.4 | 1956.1 |
| 5° | 2156.8 | 2126.9 | 2051.2 | 1991.3 | 1945.6 | 1896.3 | 1862.8 | 1843.4 | 1834.6 | 1820.6 | 1820.6 |
| 7.5° | 2206.1 | 2158.6 | 2053.0 | 1961.4 | 1882.2 | 1815.3 | 1751.9 | 1729.0 | 1713.2 | 1709.6 | 1706.1 |
| 10° | 2276.6 | 2216.7 | 2072.3 | 1945.6 | 1832.9 | 1741.3 | 1651.5 | 1572.3 | 1510.7 | 1473.7 | 1468.4 |
| 12.5° | 2364.6 | 2278.3 | 2102.3 | 1935.0 | 1790.6 | 1628.6 | 1390.9 | 1230.7 | 1123.3 | 1089.9 | 1095.2 |
| 15° | 2445.6 | 2352.3 | 2132.2 | 1926.2 | 1713.2 | 1350.5 | 1081.1 | 898.0 | 843.4 | 838.1 | 839.9 |
| 17.5° | 2542.4 | 2431.5 | 2167.4 | 1913.9 | 1500.1 | 1031.8 | 802.9 | 753.6 | 764.1 | 781.7 | 780.0 |
| 20° | 2642.8 | 2516.0 | 2209.7 | 1839.9 | 1197.3 | 776.5 | 709.6 | 714.8 | 730.7 | 746.5 | 750.1 |
| 22.5° | 2750.2 | 2612.9 | 2259.0 | 1662.1 | 913.8 | 676.1 | 672.6 | 679.6 | 695.5 | 713.1 | 716.6 |
| 25° | 2898.1 | 2734.4 | 2295.9 | 1429.7 | 692.0 | 625.0 | 632.1 | 644.4 | 658.5 | 677.9 | 681.4 |
| 27.5° | 3088.3 | 2898.1 | 2315.3 | 1126.8 | 598.6 | 579.3 | 581.0 | 598.6 | 616.2 | 633.8 | 633.8 |
| 30° | 3334.8 | 3093.5 | 2276.6 | 852.2 | 552.9 | 535.3 | 528.2 | 538.8 | 561.7 | 579.3 | 581.0 |
| 32.5° | 3554.8 | 3278.4 | 2174.5 | 651.5 | 519.4 | 494.8 | 477.1 | 478.9 | 487.7 | 498.3 | 500.0 |
| 35° | 3774.9 | 3458.0 | 2000.1 | 547.6 | 484.2 | 456.0 | 429.6 | 415.5 | 408.5 | 403.2 | 408.5 |
| 37.5° | 4056.6 | 3681.6 | 1767.7 | 498.3 | 454.3 | 419.0 | 382.1 | 352.1 | 327.5 | 311.6 | 315.2 |
| 40° | 4419.3 | 3991.5 | 1493.1 | 466.6 | 426.1 | 383.8 | 334.5 | 295.8 | 253.5 | 239.5 | 232.4 |
| 42.5° | 5018.0 | 4461.6 | 1204.3 | 440.2 | 397.9 | 346.9 | 285.2 | 232.4 | 193.7 | 179.6 | 183.1 |
| 45° | 5963.5 | 5054.9 | 927.9 | 412.0 | 369.7 | 306.4 | 239.5 | 183.1 | 151.4 | 144.4 | 147.9 |
| 47.5° | 7217.1 | 5822.6 | 714.8 | 380.3 | 334.5 | 262.3 | 188.4 | 144.4 | 125.0 | 123.2 | 121.5 |
| 50° | 8396.7 | 6537.4 | 596.9 | 345.1 | 292.3 | 218.3 | 154.9 | 121.5 | 109.2 | 107.4 | 107.4 |
| 52.5° | 9463.7 | 7049.8 | 486.0 | 304.6 | 246.5 | 179.6 | 130.3 | 107.4 | 96.8 | 91.6 | 91.6 |
| 55° | 10412.7 | 7384.3 | 394.4 | 255.3 | 193.7 | 142.6 | 112.7 | 96.8 | 84.5 | 77.5 | 75.7 |
| 57.5° | 11129.3 | 7424.8 | 295.8 | 204.2 | 144.4 | 110.9 | 96.8 | 84.5 | 70.4 | 61.6 | 58.1 |
| 60° | 11435.7 | 7074.5 | 218.3 | 154.9 | 107.4 | 88.0 | 77.5 | 68.7 | 52.8 | 44.0 | 42.3 |
| 62.5° | 11127.6 | 6393.1 | 162.0 | 118.0 | 82.8 | 65.1 | 54.6 | 51.1 | 37.0 | 26.4 | 24.6 |
| 65° | 10023.6 | 5408.8 | 128.5 | 89.8 | 61.6 | 47.5 | 35.2 | 33.5 | 22.9 | 12.3 | 10.6 |
| 67.5° | 8030.5 | 4236.2 | 102.1 | 66.9 | 44.0 | 31.7 | 22.9 | 21.1 | 12.3 | 3.5 | 3.5 |
| 70° | 5222.2 | 2707.9 | 82.8 | 49.3 | 28.2 | 21.1 | 14.1 | 10.6 | 7.0 | 1.8 | 0.0 |
| 72.5° | 2582.9 | 1265.9 | 66.9 | 38.7 | 19.4 | 10.6 | 5.3 | 3.5 | 5.3 | 0.0 | 0.0 |
| 75° | 1001.8 | 450.7 | 49.3 | 26.4 | 10.6 | 5.3 | 3.5 | 0.0 | 1.8 | 0.0 | 0.0 |
| 77.5° | 332.8 | 149.7 | 29.9 | 14.1 | 7.0 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 123.2 | 58.1 | 15.8 | 8.8 | 3.5 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 49.3 | 22.9 | 10.6 | 7.0 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 24.6 | 14.1 | 7.0 | 5.3 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 17.6 | 10.6 | 7.0 | 5.3 | 3.5 | 1.8 | 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)