

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: P456017

Luminaire Tested: **GLAN-SA7B-727-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456017
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-SA7B-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA 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: 23978 lumens
Efficiency: N/A
Efficacy: 83.8 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

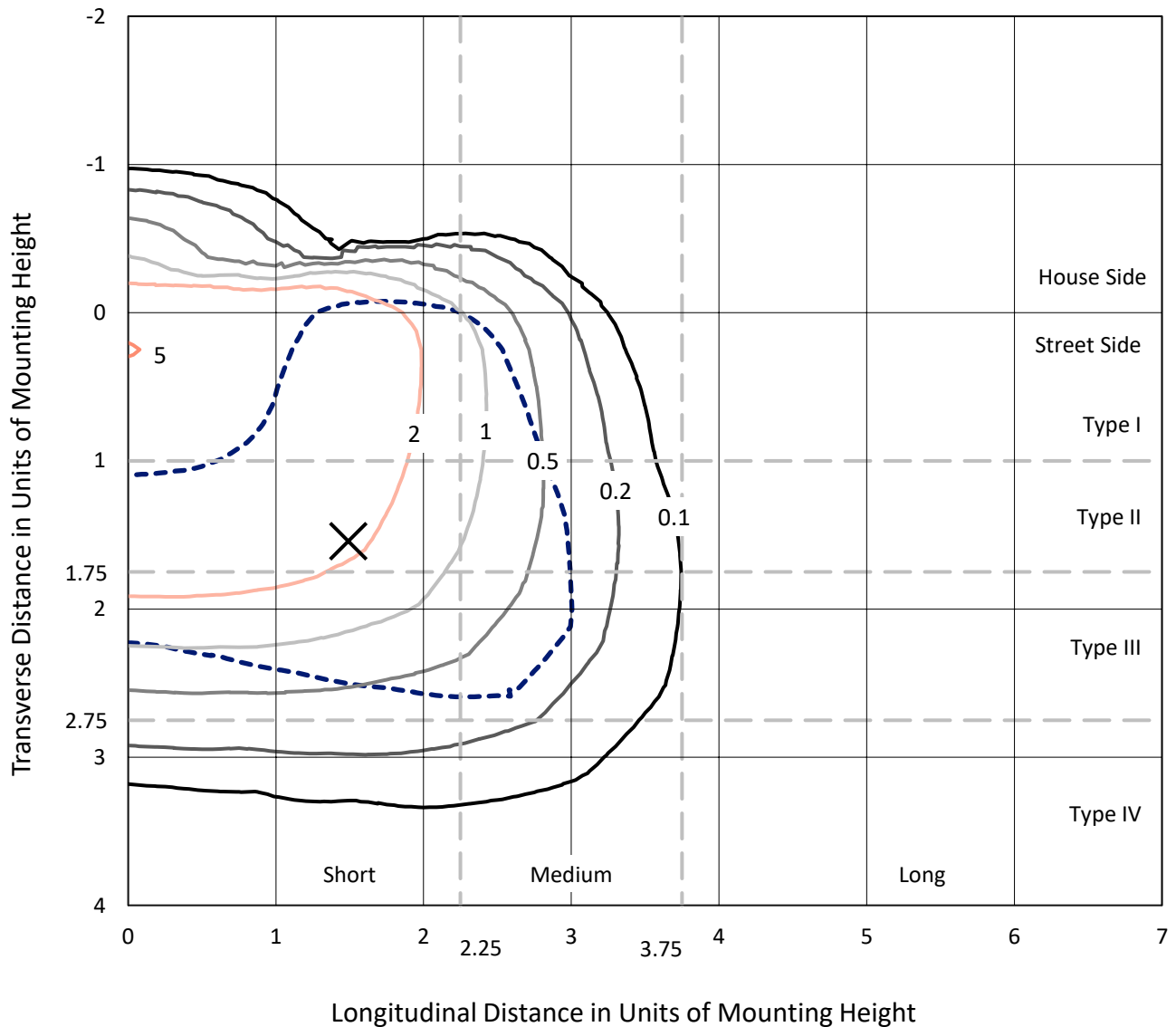
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

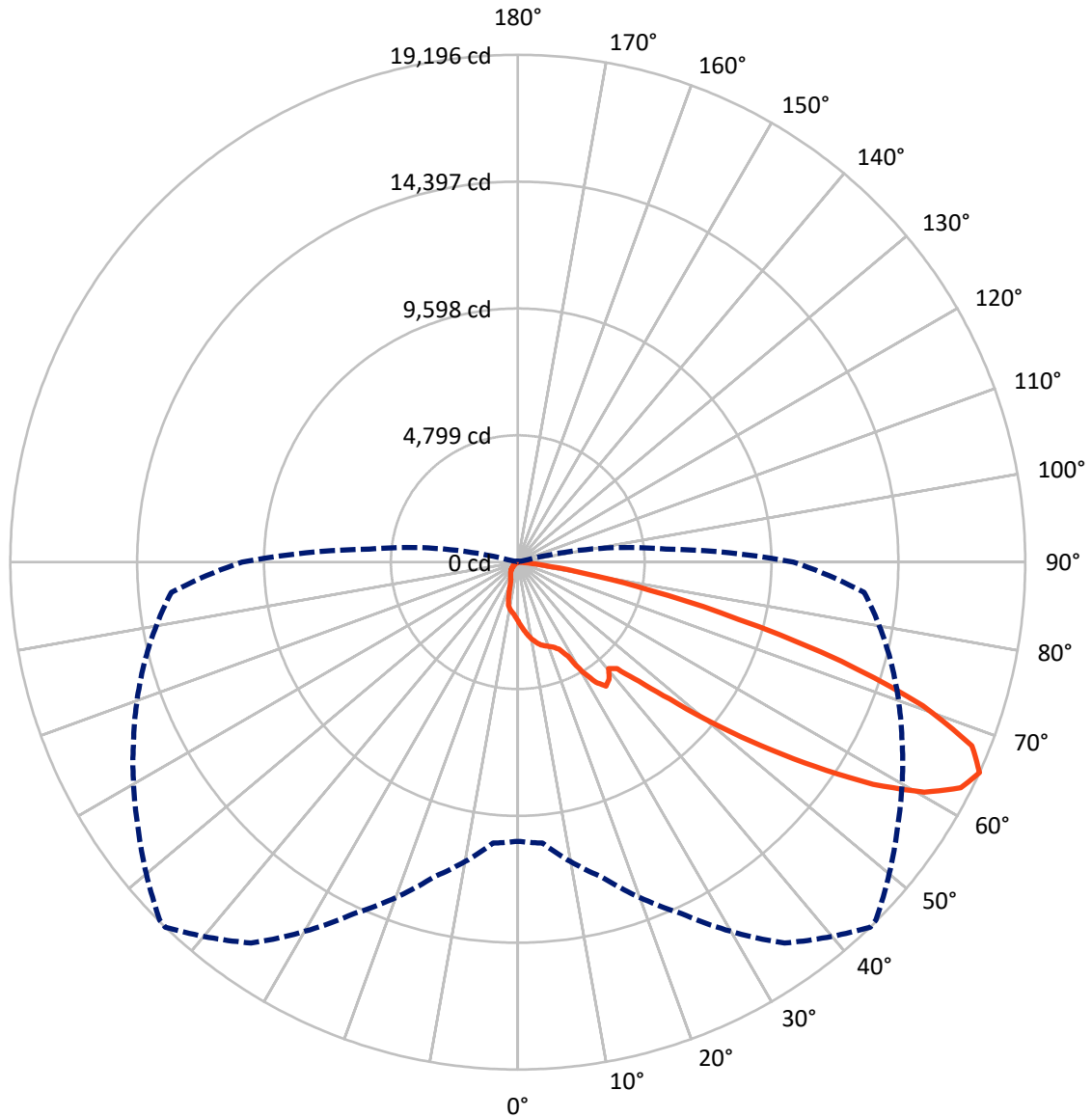
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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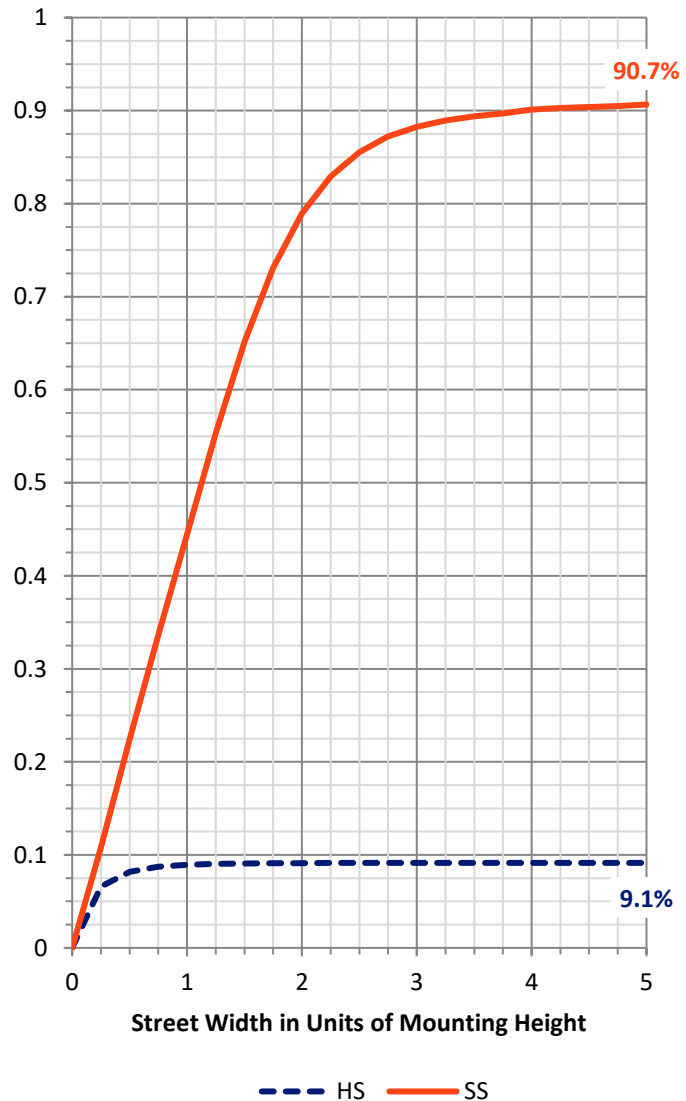
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2209.2 | 0.0 | 2209.2 |
| | % Fixture | 9.2 | 0.0 | 9.2 |
| Street Side | Lumens | 21768.8 | 0.0 | 21768.8 |
| | % Fixture | 90.8 | 0.0 | 90.8 |
| Total | Lumens | 23978.0 | 0.0 | 23978.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 222.0 | 0.9 |
| 10°-20° | 668.0 | 2.8 |
| 20°-30° | 1132.7 | 4.7 |
| 30°-40° | 1883.4 | 7.9 |
| 40°-50° | 3288.4 | 13.7 |
| 50°-60° | 6424.3 | 26.8 |
| 60°-70° | 7453.7 | 31.1 |
| 70°-80° | 2714.3 | 11.3 |
| 80°-90° | 191.2 | 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° | 23978.0 | 100.0 |
| 0°-180° | 23978.0 | 100.0 |



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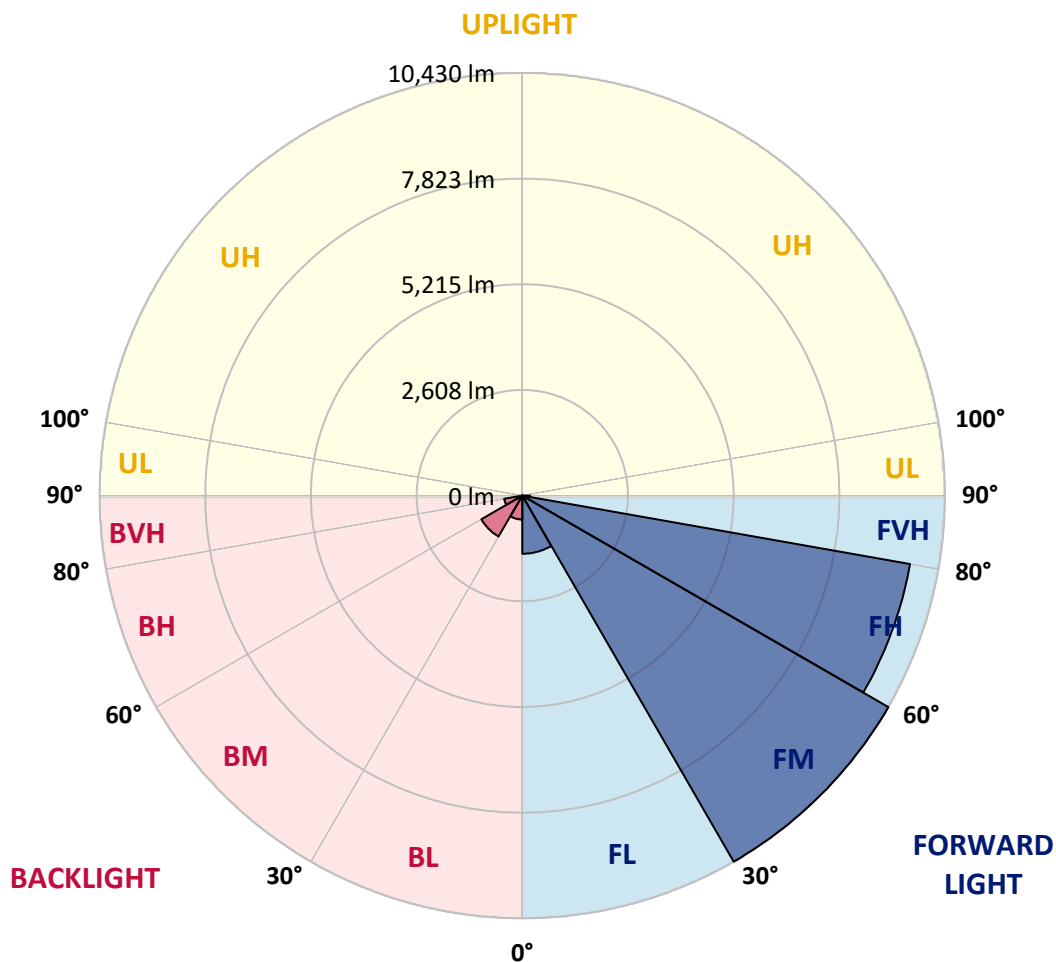
CATALOG NUMBER: GLAN-SA7B-727-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1434.1 | 6.0 | | | |
| FM | (30°-60°) | 10430.5 | 43.5 | | | |
| FH | (60°-80°) | 9715.6 | 40.5 | | | G4/12000 |
| FVH | (80°-90°) | 188.6 | 0.8 | | | G2/225 |
| BL | (0°-30°) | 588.6 | 2.5 | B2/1000 | | |
| BM | (30°-60°) | 1165.6 | 4.9 | B2/2500 | | |
| BH | (60°-80°) | 452.4 | 1.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 2.6 | 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° | 2231.6 | 2231.6 | 2231.6 | 2231.6 | 2231.6 | 2231.6 | 2231.6 | 2231.6 | 2231.6 | 2231.6 | 2231.6 |
| 2.5° | 2512.0 | 2501.0 | 2495.5 | 2466.2 | 2444.2 | 2416.7 | 2416.7 | 2381.9 | 2341.6 | 2297.6 | 2257.3 |
| 5° | 2792.3 | 2774.0 | 2750.2 | 2724.5 | 2673.2 | 2599.9 | 2599.9 | 2526.6 | 2442.3 | 2367.2 | 2284.8 |
| 7.5° | 3061.6 | 3045.1 | 3004.8 | 2955.4 | 2871.1 | 2794.1 | 2788.6 | 2682.4 | 2581.6 | 2468.0 | 2350.7 |
| 10° | 3298.0 | 3285.2 | 3250.3 | 3155.1 | 3067.1 | 2966.4 | 2964.5 | 2845.4 | 2728.2 | 2588.9 | 2444.2 |
| 12.5° | 3462.9 | 3464.7 | 3418.9 | 3327.3 | 3213.7 | 3118.4 | 3111.1 | 2993.8 | 2871.1 | 2720.8 | 2543.1 |
| 15° | 3580.1 | 3580.1 | 3532.5 | 3429.9 | 3327.3 | 3243.0 | 3235.7 | 3133.1 | 3006.7 | 2843.6 | 2651.2 |
| 17.5° | 3613.1 | 3624.1 | 3572.8 | 3481.2 | 3398.8 | 3325.5 | 3323.6 | 3237.5 | 3136.8 | 2979.2 | 2761.1 |
| 20° | 3600.3 | 3611.3 | 3571.0 | 3499.5 | 3442.7 | 3400.6 | 3395.1 | 3360.3 | 3266.8 | 3118.4 | 2878.4 |
| 22.5° | 3572.8 | 3583.8 | 3554.5 | 3512.4 | 3484.9 | 3497.7 | 3488.5 | 3517.9 | 3468.4 | 3288.8 | 3017.7 |
| 25° | 3578.3 | 3589.3 | 3567.3 | 3543.5 | 3567.3 | 3646.1 | 3669.9 | 3796.3 | 3752.4 | 3505.0 | 3167.9 |
| 27.5° | 3750.5 | 3772.5 | 3741.4 | 3752.4 | 3836.7 | 4019.9 | 4065.7 | 4283.7 | 4089.5 | 3779.9 | 3402.4 |
| 30° | 4133.5 | 4118.8 | 4060.2 | 4113.3 | 4406.5 | 4794.9 | 4782.1 | 4747.3 | 4443.1 | 4096.8 | 3680.9 |
| 32.5° | 4481.6 | 4468.8 | 4465.1 | 4694.1 | 5225.5 | 5414.2 | 5405.0 | 5067.9 | 4760.1 | 4459.6 | 3955.8 |
| 35° | 4622.7 | 4573.2 | 4562.2 | 5117.4 | 6006.0 | 5756.8 | 5700.0 | 5199.8 | 5144.9 | 4855.4 | 4236.1 |
| 37.5° | 5047.7 | 5012.9 | 4842.5 | 5187.0 | 5694.5 | 5612.1 | 5568.1 | 5427.0 | 5555.3 | 5205.3 | 4553.1 |
| 40° | 5923.5 | 5826.4 | 5672.5 | 5335.4 | 5253.0 | 5287.8 | 5331.7 | 5718.3 | 6040.8 | 5683.5 | 4976.3 |
| 42.5° | 7011.9 | 6989.9 | 6704.1 | 6075.6 | 5458.2 | 5505.8 | 5562.6 | 6326.6 | 6738.9 | 6403.6 | 5667.0 |
| 45° | 8318.3 | 8349.4 | 7937.2 | 7195.1 | 6385.3 | 6425.6 | 6508.0 | 7224.4 | 7684.3 | 7523.1 | 6753.5 |
| 47.5° | 9505.5 | 9481.7 | 9342.5 | 8571.1 | 7823.6 | 7733.8 | 7867.5 | 8376.9 | 8992.5 | 9018.2 | 8102.1 |
| 50° | 10700.1 | 10826.6 | 10619.5 | 10317.2 | 9762.0 | 9573.3 | 9523.8 | 9773.0 | 10711.1 | 10588.4 | 9721.7 |
| 52.5° | 12416.9 | 12482.9 | 12094.4 | 12017.5 | 12143.9 | 11532.0 | 11482.5 | 11542.9 | 12382.1 | 11960.7 | 10934.7 |
| 55° | 13496.1 | 13457.6 | 13312.9 | 13913.8 | 14414.0 | 13650.0 | 13587.7 | 13344.0 | 13769.1 | 12929.9 | 12101.8 |
| 57.5° | 13836.9 | 13891.8 | 14229.0 | 15315.5 | 16499.1 | 15850.5 | 15736.9 | 15044.3 | 14769.5 | 13833.2 | 13175.5 |
| 60° | 13684.8 | 13785.6 | 14513.0 | 16129.0 | 17770.6 | 17673.5 | 17576.4 | 16413.0 | 15487.7 | 14588.1 | 13928.5 |
| 62.5° | 12602.0 | 12743.0 | 13906.5 | 15984.2 | 18201.2 | 18807.7 | 18686.8 | 17266.8 | 15965.9 | 14954.5 | 14060.4 |
| 65° | 10560.9 | 10665.3 | 12336.3 | 14670.5 | 17589.3 | 19196.1 | 19152.1 | 17534.3 | 16041.0 | 14619.2 | 13157.1 |
| 67.5° | 7528.6 | 7884.0 | 9432.2 | 12363.8 | 15779.0 | 18532.8 | 18608.0 | 17213.7 | 15335.6 | 13170.0 | 10896.2 |
| 70° | 4732.6 | 4974.5 | 6084.8 | 8851.4 | 12649.6 | 16259.1 | 16506.4 | 15746.0 | 13309.2 | 10265.9 | 7294.0 |
| 72.5° | 2257.3 | 2436.8 | 3228.4 | 5602.9 | 8928.4 | 12792.5 | 12988.6 | 12926.3 | 10291.5 | 6467.7 | 3763.4 |
| 75° | 1005.9 | 1073.7 | 1540.9 | 2860.1 | 5764.1 | 8598.6 | 9106.1 | 9190.4 | 6431.1 | 3164.2 | 1463.9 |
| 77.5° | 513.0 | 514.9 | 721.9 | 1385.2 | 2878.4 | 5130.2 | 5231.0 | 5526.0 | 3486.7 | 1394.3 | 509.4 |
| 80° | 273.0 | 291.3 | 382.9 | 654.1 | 1493.3 | 2526.6 | 2513.8 | 2763.0 | 1546.4 | 683.4 | 170.4 |
| 82.5° | 122.8 | 135.6 | 216.2 | 342.6 | 729.2 | 958.2 | 1033.4 | 1130.5 | 663.3 | 436.1 | 75.1 |
| 85° | 36.6 | 44.0 | 106.3 | 172.2 | 263.8 | 276.7 | 309.6 | 399.4 | 375.6 | 309.6 | 38.5 |
| 87.5° | 5.5 | 5.5 | 44.0 | 47.6 | 38.5 | 49.5 | 51.3 | 56.8 | 120.9 | 113.6 | 20.2 |
| 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-SA7B-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2231.6 | 2231.6 | 2231.6 | 2231.6 | 2231.6 | 2231.6 | 2231.6 | 2231.6 | 2231.6 | 2231.6 | 2231.6 |
| 2.5° | 2235.3 | 2222.5 | 2176.7 | 2138.2 | 2105.2 | 2085.1 | 2061.2 | 2046.6 | 2039.3 | 2033.8 | 2035.6 |
| 5° | 2244.5 | 2213.3 | 2134.5 | 2072.2 | 2024.6 | 1973.3 | 1938.5 | 1918.3 | 1909.2 | 1894.5 | 1894.5 |
| 7.5° | 2295.8 | 2246.3 | 2136.4 | 2041.1 | 1958.6 | 1889.0 | 1823.1 | 1799.2 | 1782.7 | 1779.1 | 1775.4 |
| 10° | 2369.1 | 2306.8 | 2156.5 | 2024.6 | 1907.3 | 1812.1 | 1718.6 | 1636.2 | 1572.0 | 1533.6 | 1528.1 |
| 12.5° | 2460.7 | 2370.9 | 2187.7 | 2013.6 | 1863.4 | 1694.8 | 1447.4 | 1280.7 | 1169.0 | 1134.1 | 1139.6 |
| 15° | 2544.9 | 2447.8 | 2218.8 | 2004.4 | 1782.7 | 1405.3 | 1125.0 | 934.4 | 877.6 | 872.1 | 874.0 |
| 17.5° | 2645.7 | 2530.3 | 2255.5 | 1991.6 | 1561.0 | 1073.7 | 835.5 | 784.2 | 795.2 | 813.5 | 811.7 |
| 20° | 2750.2 | 2618.2 | 2299.4 | 1914.7 | 1245.9 | 808.0 | 738.4 | 743.9 | 760.4 | 776.9 | 780.5 |
| 22.5° | 2861.9 | 2719.0 | 2350.7 | 1729.6 | 950.9 | 703.6 | 699.9 | 707.2 | 723.7 | 742.0 | 745.7 |
| 25° | 3015.8 | 2845.4 | 2389.2 | 1487.8 | 720.1 | 650.4 | 657.8 | 670.6 | 685.2 | 705.4 | 709.1 |
| 27.5° | 3213.7 | 3015.8 | 2409.4 | 1172.6 | 623.0 | 602.8 | 604.6 | 623.0 | 641.3 | 659.6 | 659.6 |
| 30° | 3470.2 | 3219.2 | 2369.1 | 886.8 | 575.3 | 557.0 | 549.7 | 560.7 | 584.5 | 602.8 | 604.6 |
| 32.5° | 3699.2 | 3411.6 | 2262.8 | 677.9 | 540.5 | 514.9 | 496.5 | 498.4 | 507.5 | 518.5 | 520.3 |
| 35° | 3928.3 | 3598.5 | 2081.4 | 569.8 | 503.9 | 474.5 | 447.1 | 432.4 | 425.1 | 419.6 | 425.1 |
| 37.5° | 4221.4 | 3831.2 | 1839.5 | 518.5 | 472.7 | 436.1 | 397.6 | 366.4 | 340.8 | 324.3 | 328.0 |
| 40° | 4598.9 | 4153.6 | 1553.7 | 485.5 | 443.4 | 399.4 | 348.1 | 307.8 | 263.8 | 249.2 | 241.9 |
| 42.5° | 5221.8 | 4642.8 | 1253.2 | 458.1 | 414.1 | 360.9 | 296.8 | 241.9 | 201.5 | 186.9 | 190.6 |
| 45° | 6205.7 | 5260.3 | 965.6 | 428.7 | 384.8 | 318.8 | 249.2 | 190.6 | 157.6 | 150.2 | 153.9 |
| 47.5° | 7510.2 | 6059.1 | 743.9 | 395.8 | 348.1 | 273.0 | 196.0 | 150.2 | 130.1 | 128.3 | 126.4 |
| 50° | 8737.8 | 6803.0 | 621.1 | 359.1 | 304.1 | 227.2 | 161.2 | 126.4 | 113.6 | 111.8 | 111.8 |
| 52.5° | 9848.2 | 7336.2 | 505.7 | 317.0 | 256.5 | 186.9 | 135.6 | 111.8 | 100.8 | 95.3 | 95.3 |
| 55° | 10835.7 | 7684.3 | 410.4 | 265.7 | 201.5 | 148.4 | 117.3 | 100.8 | 87.9 | 80.6 | 78.8 |
| 57.5° | 11581.4 | 7726.4 | 307.8 | 212.5 | 150.2 | 115.4 | 100.8 | 87.9 | 73.3 | 64.1 | 60.5 |
| 60° | 11900.2 | 7361.8 | 227.2 | 161.2 | 111.8 | 91.6 | 80.6 | 71.5 | 55.0 | 45.8 | 44.0 |
| 62.5° | 11579.6 | 6652.8 | 168.6 | 122.8 | 86.1 | 67.8 | 56.8 | 53.1 | 38.5 | 27.5 | 25.7 |
| 65° | 10430.8 | 5628.6 | 133.8 | 93.4 | 64.1 | 49.5 | 36.6 | 34.8 | 23.8 | 12.8 | 11.0 |
| 67.5° | 8356.7 | 4408.3 | 106.3 | 69.6 | 45.8 | 33.0 | 23.8 | 22.0 | 12.8 | 3.7 | 3.7 |
| 70° | 5434.3 | 2817.9 | 86.1 | 51.3 | 29.3 | 22.0 | 14.7 | 11.0 | 7.3 | 1.8 | 0.0 |
| 72.5° | 2687.9 | 1317.4 | 69.6 | 40.3 | 20.2 | 11.0 | 5.5 | 3.7 | 5.5 | 0.0 | 0.0 |
| 75° | 1042.5 | 469.0 | 51.3 | 27.5 | 11.0 | 5.5 | 3.7 | 0.0 | 1.8 | 0.0 | 0.0 |
| 77.5° | 346.3 | 155.7 | 31.1 | 14.7 | 7.3 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 128.3 | 60.5 | 16.5 | 9.2 | 3.7 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 51.3 | 23.8 | 11.0 | 7.3 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 25.7 | 14.7 | 7.3 | 5.5 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 18.3 | 11.0 | 7.3 | 5.5 | 3.7 | 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)