

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: P456711

Luminaire Tested: **GLAN-SA8A-727-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456711
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-SA8A-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA 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: 22239 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

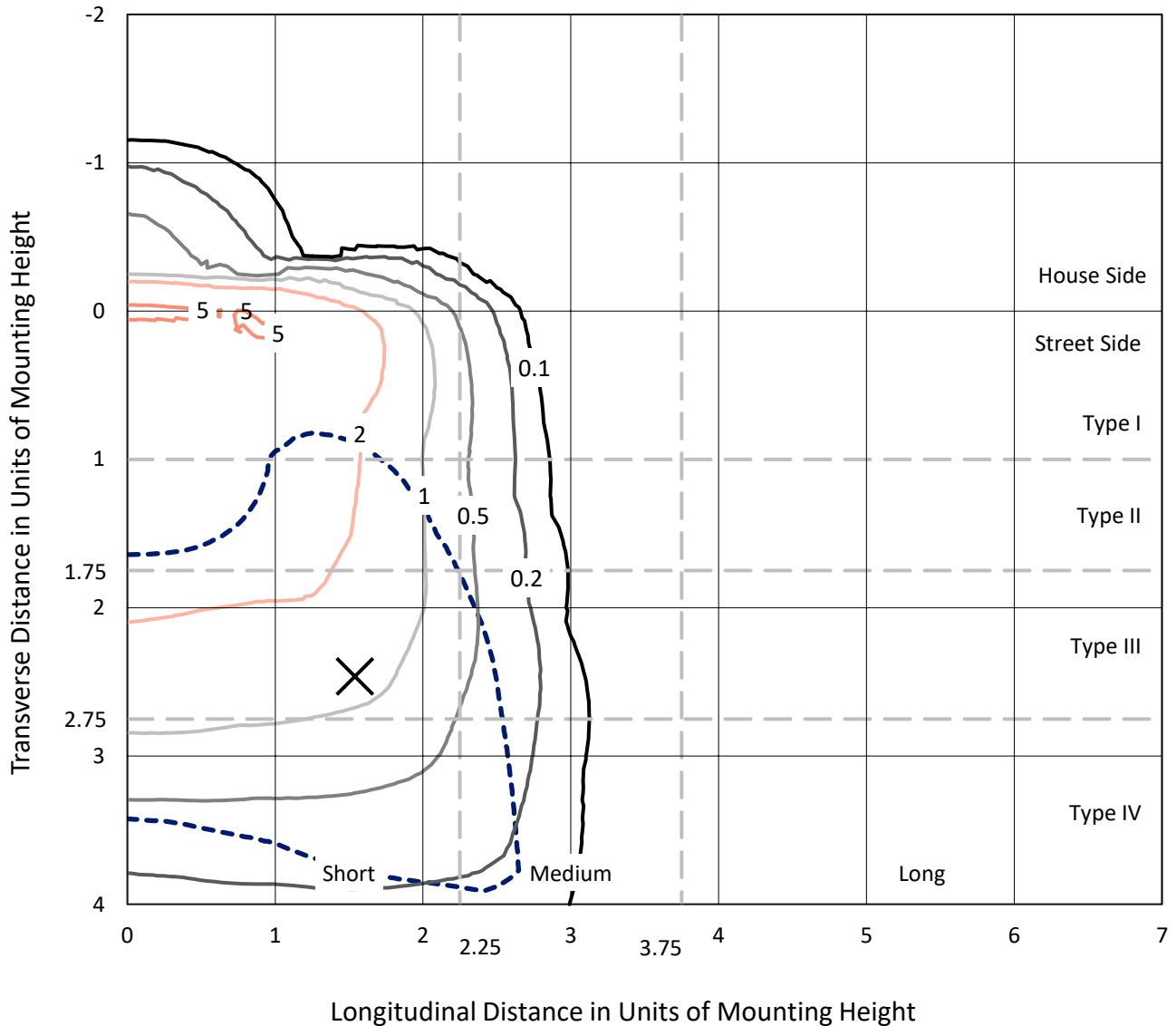
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

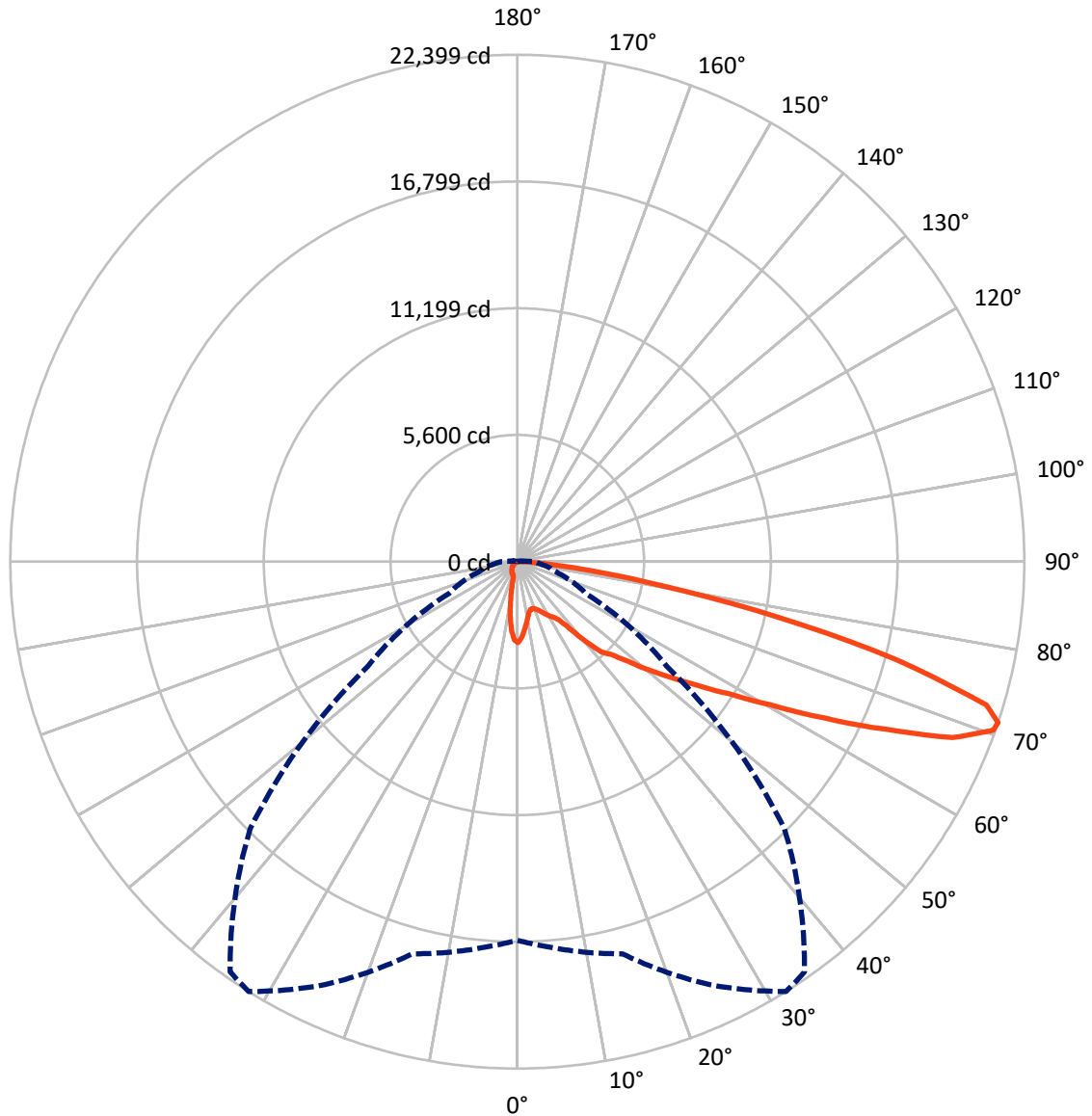
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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 | 1862.8 | 0.0 | 1862.8 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 20376.2 | 0.0 | 20376.2 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 22239.0 | 0.0 | 22239.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 290.8 | 1.3 |
| 10°-20° | 631.2 | 2.8 |
| 20°-30° | 981.9 | 4.4 |
| 30°-40° | 1635.8 | 7.4 |
| 40°-50° | 3042.8 | 13.7 |
| 50°-60° | 4885.4 | 22.0 |
| 60°-70° | 6571.1 | 29.5 |
| 70°-80° | 3898.7 | 17.5 |
| 80°-90° | 301.4 | 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° | 22239.0 | 100.0 |
| 0°-180° | 22239.0 | 100.0 |

Coefficient of Utilization



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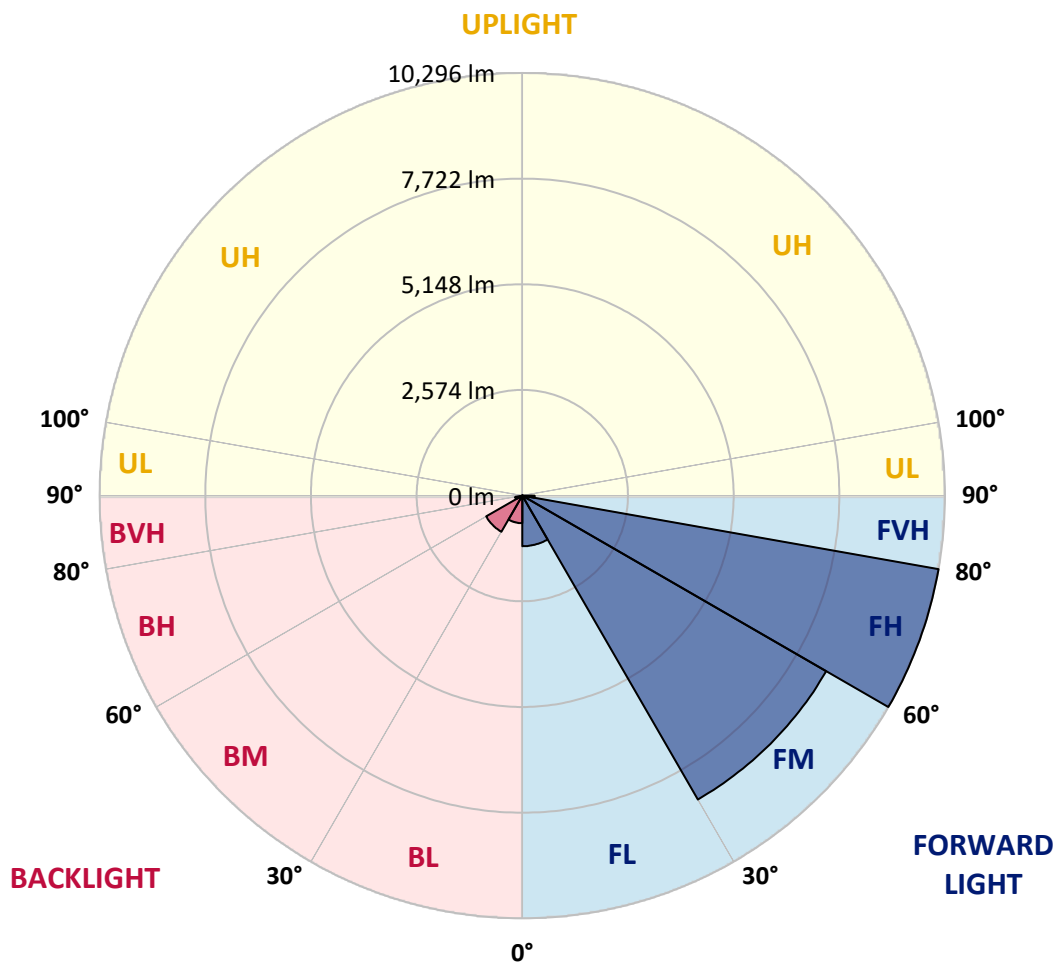
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1232.6 | 5.5 | | | |
| FM | (30°-60°) | 8547.8 | 38.4 | | | |
| FH | (60°-80°) | 10295.6 | 46.3 | | | G4/12000 |
| FVH | (80°-90°) | 300.2 | 1.3 | | | G3/500 |
| BL | (0°-30°) | 671.2 | 3.0 | B2/1000 | | |
| BM | (30°-60°) | 1016.2 | 4.6 | B2/2500 | | |
| BH | (60°-80°) | 174.2 | 0.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 1.2 | 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° | 3576.4 | 3576.4 | 3576.4 | 3576.4 | 3576.4 | 3576.4 | 3576.4 | 3576.4 | 3576.4 | 3576.4 | 3576.4 |
| 2.5° | 3316.9 | 3351.0 | 3345.9 | 3357.9 | 3386.9 | 3398.8 | 3431.3 | 3467.1 | 3516.6 | 3550.8 | 3573.0 |
| 5° | 2970.4 | 2996.0 | 2999.4 | 3059.1 | 3088.1 | 3120.6 | 3216.2 | 3320.3 | 3436.4 | 3528.6 | 3590.0 |
| 7.5° | 2599.9 | 2613.6 | 2640.9 | 2719.4 | 2792.8 | 2825.3 | 2970.4 | 3151.3 | 3334.0 | 3506.4 | 3617.3 |
| 10° | 2294.3 | 2309.7 | 2359.2 | 2442.9 | 2511.1 | 2553.8 | 2755.3 | 2982.3 | 3238.4 | 3494.4 | 3656.6 |
| 12.5° | 2120.2 | 2128.8 | 2147.5 | 2222.6 | 2309.7 | 2355.8 | 2572.6 | 2832.1 | 3161.6 | 3499.6 | 3723.2 |
| 15° | 2108.3 | 2104.9 | 2082.7 | 2113.4 | 2191.9 | 2239.7 | 2451.4 | 2729.7 | 3093.3 | 3516.6 | 3801.7 |
| 17.5° | 2171.4 | 2162.9 | 2110.0 | 2110.0 | 2174.8 | 2214.1 | 2400.2 | 2675.0 | 3059.1 | 3555.9 | 3912.7 |
| 20° | 2268.7 | 2255.1 | 2168.0 | 2161.2 | 2224.4 | 2265.3 | 2430.9 | 2678.4 | 3066.0 | 3629.3 | 4061.2 |
| 22.5° | 2391.6 | 2376.3 | 2244.8 | 2248.3 | 2316.5 | 2357.5 | 2519.7 | 2739.9 | 3108.6 | 3719.8 | 4220.0 |
| 25° | 2552.1 | 2535.0 | 2379.7 | 2372.9 | 2444.6 | 2480.4 | 2651.1 | 2849.2 | 3168.4 | 3832.4 | 4428.2 |
| 27.5° | 2765.5 | 2729.7 | 2543.6 | 2533.3 | 2610.2 | 2656.3 | 2809.9 | 2996.0 | 3274.2 | 3987.8 | 4708.2 |
| 30° | 2941.3 | 2902.1 | 2724.5 | 2697.2 | 2779.2 | 2815.0 | 2973.8 | 3194.0 | 3482.5 | 4259.2 | 5095.7 |
| 32.5° | 3171.8 | 3113.8 | 2905.5 | 2833.8 | 2920.9 | 2966.9 | 3211.1 | 3562.7 | 3791.5 | 4546.0 | 5556.6 |
| 35° | 3690.8 | 3654.9 | 3400.5 | 3149.6 | 3144.5 | 3202.5 | 3561.0 | 3934.9 | 4109.0 | 4993.3 | 6184.8 |
| 37.5° | 4433.3 | 4407.7 | 4138.0 | 3801.7 | 3704.4 | 3677.1 | 3986.1 | 4344.6 | 4616.0 | 5607.8 | 6915.5 |
| 40° | 5295.4 | 5235.7 | 4988.2 | 4703.1 | 4576.7 | 4496.5 | 4488.0 | 4954.0 | 5278.4 | 6442.6 | 7676.8 |
| 42.5° | 5913.4 | 5804.1 | 5503.7 | 5483.2 | 5455.9 | 5372.2 | 5129.8 | 5845.1 | 6133.6 | 7340.5 | 8491.1 |
| 45° | 6562.1 | 6396.5 | 5949.3 | 5872.4 | 5862.2 | 5857.1 | 6099.5 | 6900.1 | 7065.7 | 8313.6 | 9327.6 |
| 47.5° | 7065.7 | 6934.2 | 6567.2 | 6533.1 | 6575.8 | 6691.8 | 7381.5 | 8020.0 | 7985.8 | 9180.8 | 10029.2 |
| 50° | 7736.6 | 7637.6 | 7229.6 | 7294.4 | 7514.7 | 7704.2 | 8827.4 | 9240.5 | 8742.1 | 9863.6 | 10539.6 |
| 52.5° | 8528.7 | 8346.0 | 7967.0 | 8142.9 | 8480.9 | 8796.7 | 10362.1 | 10309.2 | 9273.0 | 10377.5 | 10920.3 |
| 55° | 9214.9 | 9085.2 | 8955.5 | 9138.1 | 9643.4 | 10037.8 | 11748.3 | 11109.8 | 9658.8 | 10790.6 | 11087.6 |
| 57.5° | 10375.8 | 10345.0 | 10211.9 | 10398.0 | 11010.8 | 11420.5 | 12989.3 | 11731.2 | 9906.3 | 11005.7 | 10891.3 |
| 60° | 12093.1 | 12043.6 | 11796.1 | 12033.4 | 12832.3 | 13475.9 | 14133.1 | 12289.4 | 9962.6 | 10922.0 | 10326.3 |
| 62.5° | 14158.7 | 13989.7 | 13778.0 | 14128.0 | 15223.9 | 15507.3 | 15210.3 | 12620.6 | 9752.7 | 10256.3 | 8964.0 |
| 65° | 16087.7 | 15913.6 | 15918.7 | 16656.2 | 17849.5 | 18042.4 | 16466.7 | 12571.1 | 9138.1 | 8588.4 | 6611.6 |
| 67.5° | 17564.4 | 17535.4 | 17743.6 | 19182.7 | 20743.0 | 20609.8 | 17590.0 | 11830.2 | 7316.6 | 5566.9 | 3513.2 |
| 70° | 17639.5 | 17695.8 | 18293.3 | 20722.5 | 22306.7 | 22095.0 | 17494.4 | 9616.1 | 4561.4 | 2560.7 | 1384.5 |
| 71° | 16731.3 | 17110.3 | 17936.5 | 20674.7 | 22398.9 | 22124.0 | 16688.6 | 8054.1 | 3345.9 | 1785.6 | 998.7 |
| 72.5° | 14257.7 | 14457.4 | 16243.1 | 19457.5 | 21670.0 | 21082.7 | 14645.2 | 5645.4 | 2142.4 | 1092.5 | 573.6 |
| 75° | 7852.7 | 8344.3 | 10877.7 | 15264.9 | 17332.2 | 16816.7 | 9544.4 | 2681.9 | 1068.6 | 597.5 | 237.3 |
| 77.5° | 3738.6 | 3643.0 | 5307.4 | 9078.4 | 11751.7 | 11724.4 | 4808.9 | 1191.6 | 623.1 | 404.6 | 119.5 |
| 80° | 1068.6 | 1201.8 | 2031.5 | 4315.6 | 6524.5 | 6596.2 | 1847.1 | 575.3 | 431.9 | 315.8 | 61.5 |
| 82.5° | 322.6 | 329.5 | 746.0 | 1908.5 | 3245.2 | 3059.1 | 693.1 | 293.6 | 310.7 | 250.9 | 35.8 |
| 85° | 56.3 | 70.0 | 220.2 | 672.6 | 1237.6 | 938.9 | 174.1 | 140.0 | 204.9 | 165.6 | 20.5 |
| 87.5° | 3.4 | 5.1 | 73.4 | 76.8 | 109.3 | 63.2 | 30.7 | 20.5 | 44.4 | 44.4 | 11.9 |
| 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-SA8A-727-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3576.4 | 3576.4 | 3576.4 | 3576.4 | 3576.4 | 3576.4 | 3576.4 | 3576.4 | 3576.4 | 3576.4 | 3576.4 |
| 2.5° | 3588.3 | 3598.6 | 3591.7 | 3576.4 | 3550.8 | 3520.0 | 3479.1 | 3444.9 | 3415.9 | 3400.5 | 3419.3 |
| 5° | 3610.5 | 3624.2 | 3590.0 | 3513.2 | 3397.1 | 3270.8 | 3127.4 | 3016.4 | 2929.4 | 2902.1 | 2891.8 |
| 7.5° | 3644.7 | 3653.2 | 3561.0 | 3390.3 | 3144.5 | 2845.7 | 2584.6 | 2364.3 | 2193.6 | 2142.4 | 2067.3 |
| 10° | 3689.0 | 3683.9 | 3509.8 | 3192.3 | 2760.4 | 2311.4 | 1906.8 | 1606.4 | 1379.3 | 1297.4 | 1290.6 |
| 12.5° | 3757.3 | 3730.0 | 3444.9 | 2922.6 | 2302.9 | 1715.6 | 1215.5 | 950.9 | 807.5 | 759.7 | 749.4 |
| 15° | 3842.7 | 3777.8 | 3342.5 | 2606.7 | 1763.4 | 1107.9 | 749.4 | 669.2 | 650.4 | 647.0 | 643.6 |
| 17.5° | 3943.4 | 3841.0 | 3207.6 | 2219.2 | 1239.4 | 718.7 | 626.5 | 624.8 | 626.5 | 623.1 | 621.4 |
| 20° | 4080.0 | 3907.6 | 3047.2 | 1760.0 | 819.4 | 606.0 | 597.5 | 597.5 | 599.2 | 597.5 | 597.5 |
| 22.5° | 4225.1 | 3986.1 | 2849.2 | 1343.5 | 618.0 | 575.3 | 573.6 | 577.0 | 580.4 | 578.7 | 578.7 |
| 25° | 4404.3 | 4088.5 | 2588.0 | 920.1 | 553.1 | 549.7 | 551.4 | 558.2 | 565.1 | 566.8 | 565.1 |
| 27.5° | 4663.8 | 4214.8 | 2308.0 | 633.3 | 507.0 | 510.4 | 527.5 | 544.6 | 554.8 | 556.5 | 556.5 |
| 30° | 4955.7 | 4354.8 | 1942.7 | 513.8 | 469.5 | 469.5 | 489.9 | 522.4 | 544.6 | 548.0 | 549.7 |
| 32.5° | 5331.3 | 4517.0 | 1538.1 | 462.6 | 433.6 | 430.2 | 449.0 | 488.2 | 529.2 | 541.2 | 541.2 |
| 35° | 5795.6 | 4708.2 | 1143.8 | 430.2 | 408.0 | 399.5 | 409.7 | 442.1 | 495.1 | 529.2 | 532.6 |
| 37.5° | 6340.2 | 4889.1 | 836.5 | 401.2 | 384.1 | 372.1 | 379.0 | 404.6 | 447.3 | 498.5 | 512.1 |
| 40° | 6843.8 | 5049.6 | 624.8 | 377.3 | 360.2 | 351.7 | 356.8 | 368.7 | 404.6 | 452.4 | 460.9 |
| 42.5° | 7393.5 | 5174.2 | 496.8 | 351.7 | 336.3 | 332.9 | 332.9 | 338.0 | 361.9 | 389.2 | 390.9 |
| 45° | 7941.4 | 5218.6 | 416.5 | 320.9 | 310.7 | 314.1 | 312.4 | 309.0 | 319.2 | 315.8 | 315.8 |
| 47.5° | 8332.4 | 5165.7 | 344.8 | 291.9 | 291.9 | 297.0 | 288.5 | 276.6 | 271.4 | 250.9 | 252.7 |
| 50° | 8600.4 | 4972.8 | 283.4 | 257.8 | 271.4 | 278.3 | 261.2 | 242.4 | 223.6 | 201.4 | 196.3 |
| 52.5° | 8711.3 | 4629.7 | 232.2 | 213.4 | 240.7 | 249.2 | 228.8 | 206.6 | 177.5 | 158.8 | 153.6 |
| 55° | 8639.6 | 4206.3 | 192.9 | 174.1 | 203.1 | 213.4 | 192.9 | 167.3 | 134.9 | 114.4 | 111.0 |
| 57.5° | 8323.8 | 3701.0 | 163.9 | 138.3 | 162.2 | 169.0 | 155.3 | 128.0 | 95.6 | 75.1 | 75.1 |
| 60° | 7777.6 | 3178.6 | 133.2 | 109.3 | 121.2 | 131.4 | 117.8 | 92.2 | 64.9 | 46.1 | 42.7 |
| 62.5° | 6669.6 | 2581.1 | 107.5 | 85.4 | 85.4 | 93.9 | 81.9 | 66.6 | 41.0 | 23.9 | 22.2 |
| 65° | 4815.7 | 1770.3 | 85.4 | 63.2 | 61.5 | 61.5 | 51.2 | 44.4 | 23.9 | 10.2 | 6.8 |
| 67.5° | 2617.0 | 998.7 | 68.3 | 47.8 | 42.7 | 41.0 | 32.4 | 25.6 | 10.2 | 1.7 | 0.0 |
| 70° | 1029.4 | 384.1 | 52.9 | 32.4 | 27.3 | 25.6 | 17.1 | 11.9 | 6.8 | 0.0 | 0.0 |
| 71° | 698.2 | 264.6 | 46.1 | 27.3 | 22.2 | 18.8 | 13.7 | 10.2 | 5.1 | 0.0 | 0.0 |
| 72.5° | 399.5 | 163.9 | 35.8 | 20.5 | 17.1 | 13.7 | 10.2 | 6.8 | 5.1 | 0.0 | 0.0 |
| 75° | 174.1 | 83.6 | 22.2 | 15.4 | 11.9 | 8.5 | 6.8 | 5.1 | 1.7 | 0.0 | 0.0 |
| 77.5° | 88.8 | 46.1 | 15.4 | 11.9 | 6.8 | 5.1 | 3.4 | 1.7 | 0.0 | 0.0 | 0.0 |
| 80° | 49.5 | 23.9 | 10.2 | 6.8 | 5.1 | 3.4 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 |
| 82.5° | 27.3 | 13.7 | 5.1 | 3.4 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 17.1 | 8.5 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 8.5 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 | 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)