

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: P649559

Luminaire Tested: **GLAN-SA7D-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649559
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-SA7D-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA 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: 30380.4 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

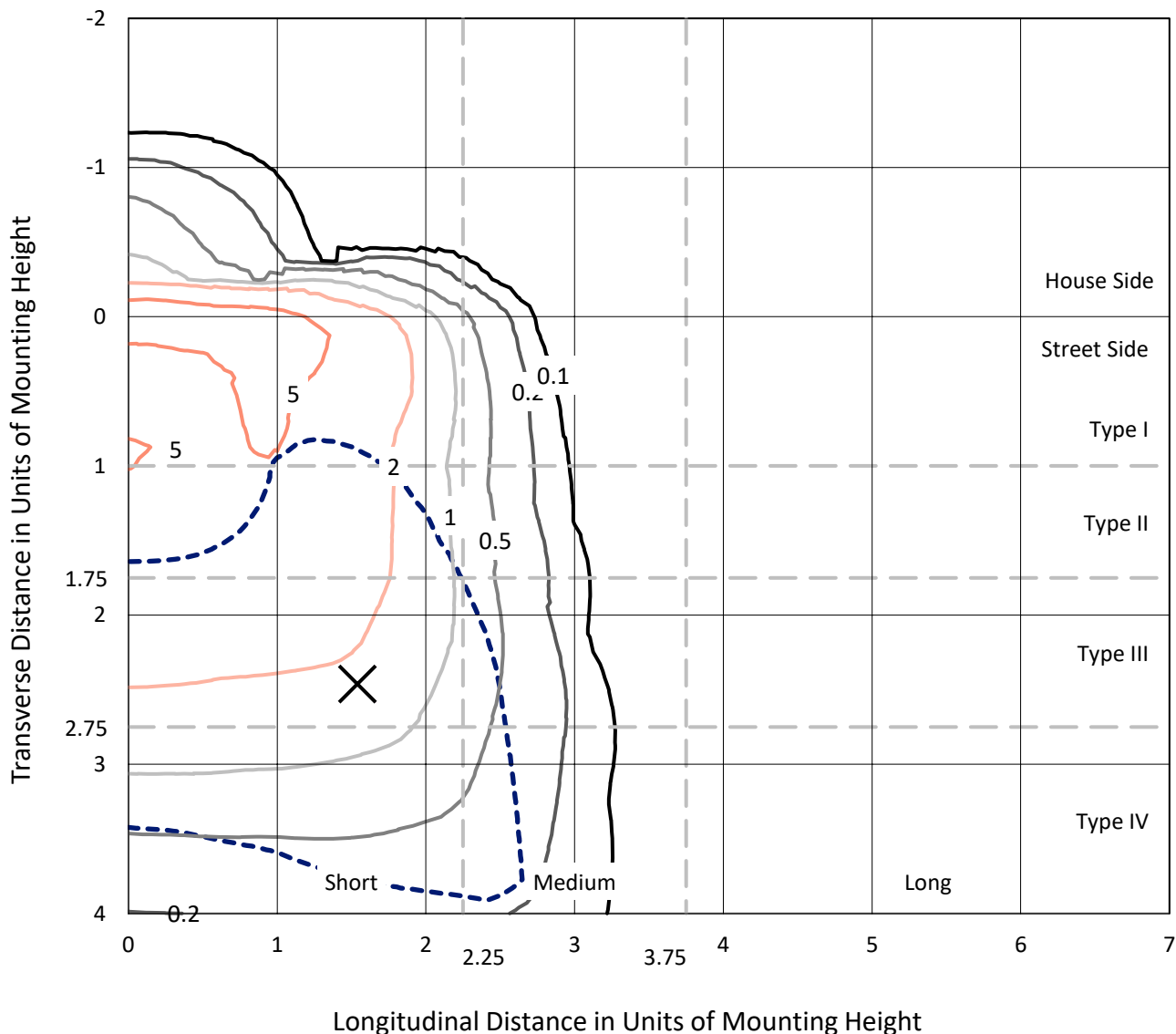
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

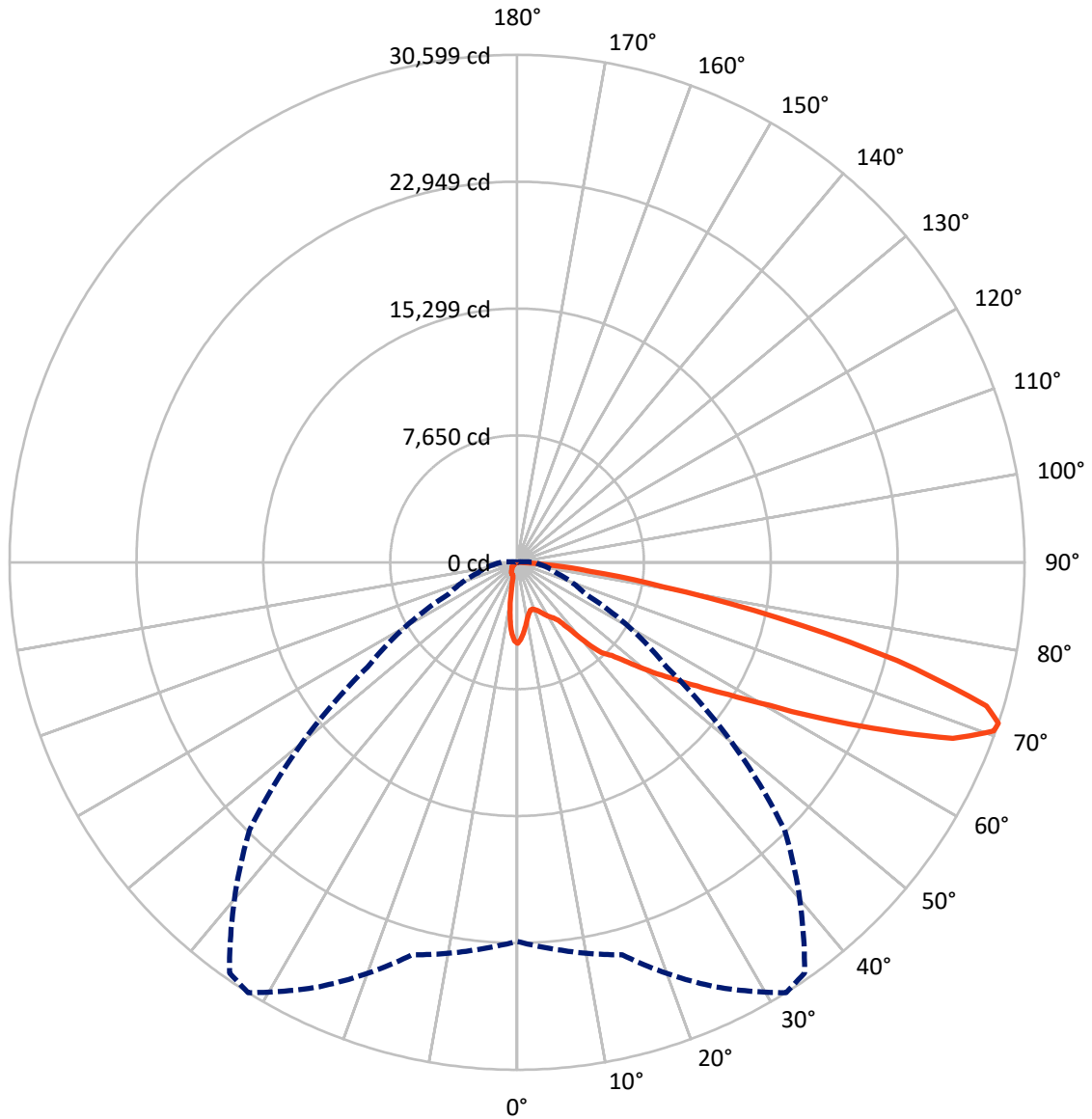
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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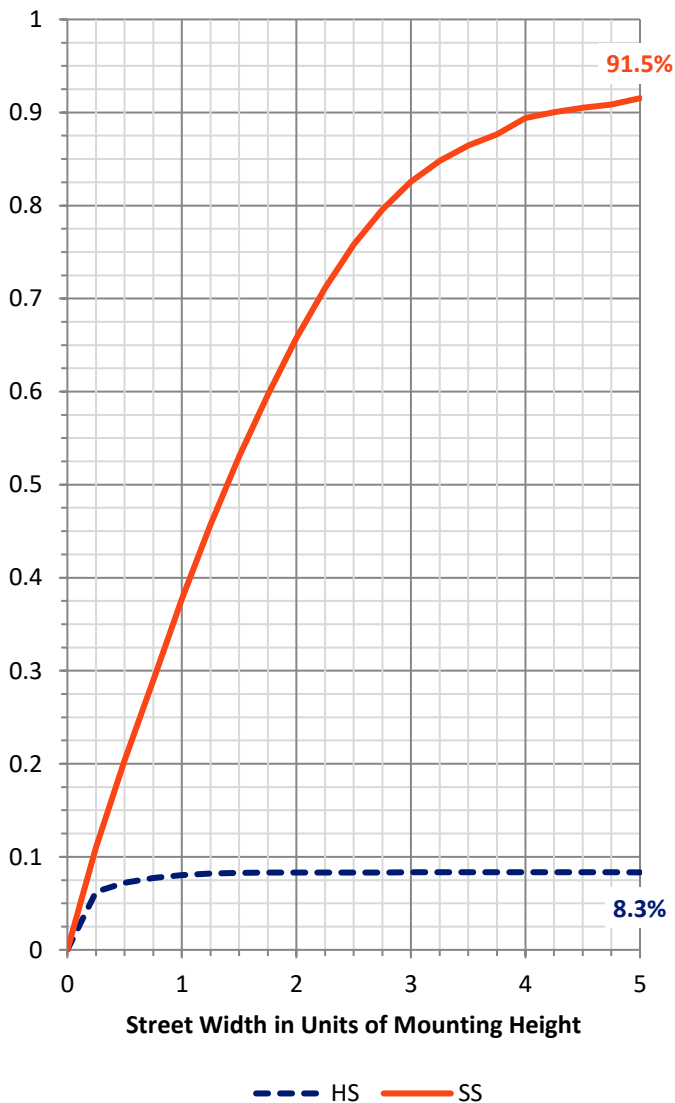
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2544.7 | 0.0 | 2544.7 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 27835.7 | 0.0 | 27835.7 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 30380.4 | 0.0 | 30380.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 397.3 | 1.3 |
| 10°-20° | 862.2 | 2.8 |
| 20°-30° | 1341.3 | 4.4 |
| 30°-40° | 2234.6 | 7.4 |
| 40°-50° | 4156.8 | 13.7 |
| 50°-60° | 6673.9 | 22.0 |
| 60°-70° | 8976.7 | 29.5 |
| 70°-80° | 5326.0 | 17.5 |
| 80°-90° | 411.7 | 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° | 30380.4 | 100.0 |
| 0°-180° | 30380.4 | 100.0 |

Coefficient of Utilization

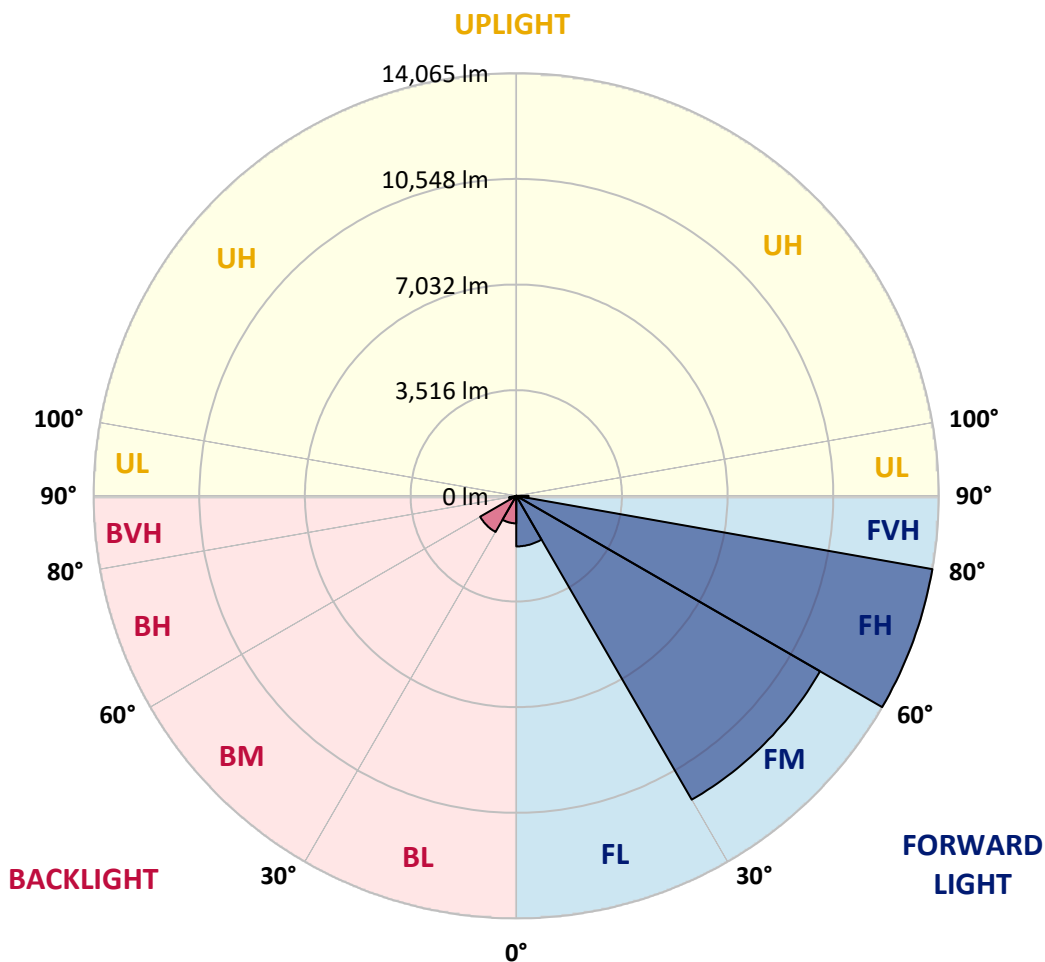


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1683.9 | 5.5 | | | |
| FM (30°-60°) | 11677.1 | 38.4 | | | |
| FH (60°-80°) | 14064.7 | 46.3 | | | G5 |
| FVH (80°-90°) | 410.1 | 1.3 | | | G3/500 |
| BL (0°-30°) | 916.9 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 1388.2 | 4.6 | B2/2500 | | |
| BH (60°-80°) | 238.0 | 0.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.6 | 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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 32° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4885.6 | 4885.6 | 4885.6 | 4885.6 | 4885.6 | 4885.6 | 4885.6 | 4885.6 | 4885.6 | 4885.6 | 4885.6 |
| 2.5° | 4531.1 | 4577.8 | 4570.8 | 4587.1 | 4626.7 | 4643.1 | 4687.4 | 4736.4 | 4804.0 | 4850.7 | 4881.0 |
| 5° | 4057.7 | 4092.7 | 4097.4 | 4179.0 | 4218.6 | 4263.0 | 4393.6 | 4535.8 | 4694.4 | 4820.4 | 4904.3 |
| 7.5° | 3551.7 | 3570.4 | 3607.7 | 3714.9 | 3815.2 | 3859.6 | 4057.7 | 4304.9 | 4554.5 | 4790.0 | 4941.6 |
| 10° | 3134.3 | 3155.3 | 3222.9 | 3337.1 | 3430.5 | 3488.7 | 3764.0 | 4074.1 | 4423.9 | 4773.7 | 4995.2 |
| 12.5° | 2896.4 | 2908.1 | 2933.7 | 3036.3 | 3155.3 | 3218.2 | 3514.4 | 3868.9 | 4318.9 | 4780.7 | 5086.2 |
| 15° | 2880.1 | 2875.4 | 2845.1 | 2887.1 | 2994.3 | 3059.7 | 3348.8 | 3729.0 | 4225.7 | 4804.0 | 5193.5 |
| 17.5° | 2966.4 | 2954.7 | 2882.4 | 2882.4 | 2971.0 | 3024.7 | 3278.9 | 3654.3 | 4179.0 | 4857.7 | 5345.1 |
| 20° | 3099.3 | 3080.6 | 2961.7 | 2952.4 | 3038.7 | 3094.7 | 3320.9 | 3659.0 | 4188.3 | 4958.0 | 5547.9 |
| 22.5° | 3267.2 | 3246.2 | 3066.6 | 3071.3 | 3164.6 | 3220.6 | 3442.1 | 3743.0 | 4246.7 | 5081.5 | 5764.8 |
| 25° | 3486.4 | 3463.1 | 3250.9 | 3241.5 | 3339.5 | 3388.4 | 3621.7 | 3892.2 | 4328.3 | 5235.5 | 6049.3 |
| 27.5° | 3777.9 | 3729.0 | 3474.7 | 3460.8 | 3565.7 | 3628.7 | 3838.6 | 4092.7 | 4472.9 | 5447.6 | 6431.8 |
| 30° | 4018.1 | 3964.5 | 3721.9 | 3684.6 | 3796.6 | 3845.5 | 4062.4 | 4363.3 | 4757.4 | 5818.5 | 6961.2 |
| 32.5° | 4333.0 | 4253.6 | 3969.2 | 3871.2 | 3990.2 | 4053.1 | 4386.6 | 4867.0 | 5179.5 | 6210.2 | 7590.8 |
| 35° | 5041.9 | 4993.0 | 4645.5 | 4302.7 | 4295.6 | 4374.9 | 4864.6 | 5375.4 | 5613.2 | 6821.3 | 8449.0 |
| 37.5° | 6056.3 | 6021.3 | 5652.9 | 5193.5 | 5060.5 | 5023.3 | 5445.4 | 5935.1 | 6305.9 | 7660.8 | 9447.1 |
| 40° | 7234.0 | 7152.4 | 6814.2 | 6424.8 | 6252.3 | 6142.6 | 6131.0 | 6767.6 | 7210.7 | 8801.2 | 10487.2 |
| 42.5° | 8078.2 | 7929.0 | 7518.5 | 7490.6 | 7453.2 | 7339.0 | 7007.8 | 7985.0 | 8379.0 | 10027.8 | 11599.6 |
| 45° | 8964.4 | 8738.2 | 8127.2 | 8022.2 | 8008.3 | 8001.2 | 8332.4 | 9426.1 | 9652.4 | 11357.1 | 12742.3 |
| 47.5° | 9652.4 | 9472.8 | 8971.4 | 8924.8 | 8983.0 | 9141.6 | 10083.8 | 10956.0 | 10909.3 | 12541.8 | 13700.8 |
| 50° | 10568.9 | 10433.6 | 9876.2 | 9964.8 | 10265.7 | 10524.5 | 12059.1 | 12623.4 | 11942.4 | 13474.6 | 14398.0 |
| 52.5° | 11650.9 | 11401.4 | 10883.7 | 11123.8 | 11585.6 | 12017.0 | 14155.5 | 14083.3 | 12667.7 | 14176.5 | 14918.1 |
| 55° | 12588.4 | 12411.2 | 12233.9 | 12483.4 | 13173.7 | 13712.4 | 16049.2 | 15177.0 | 13194.7 | 14740.9 | 15146.7 |
| 57.5° | 14174.2 | 14132.2 | 13950.3 | 14204.5 | 15041.7 | 15601.4 | 17744.6 | 16025.8 | 13532.9 | 15034.7 | 14878.5 |
| 60° | 16520.2 | 16452.6 | 16114.5 | 16438.6 | 17530.0 | 18409.2 | 19307.1 | 16788.5 | 13609.9 | 14920.5 | 14106.5 |
| 62.5° | 19342.0 | 19111.2 | 18822.0 | 19300.0 | 20797.2 | 21184.3 | 20778.5 | 17240.9 | 13323.0 | 14010.9 | 12245.6 |
| 65° | 21977.2 | 21739.4 | 21746.3 | 22753.8 | 24383.9 | 24647.4 | 22495.0 | 17173.2 | 12483.4 | 11732.6 | 9032.1 |
| 67.5° | 23994.5 | 23954.8 | 24239.3 | 26205.2 | 28336.7 | 28154.8 | 24029.4 | 16161.1 | 9995.2 | 7604.8 | 4799.3 |
| 70° | 24097.1 | 24174.0 | 24990.2 | 28308.7 | 30472.9 | 30183.7 | 23898.8 | 13136.5 | 6231.3 | 3498.1 | 1891.3 |
| 71° | 22856.4 | 23374.1 | 24502.8 | 28243.4 | 30598.8 | 30223.3 | 22798.1 | 11002.6 | 4570.8 | 2439.4 | 1364.2 |
| 72.5° | 19477.3 | 19750.2 | 22189.4 | 26580.7 | 29603.0 | 28800.8 | 20006.7 | 7712.1 | 2926.7 | 1492.5 | 783.5 |
| 75° | 10727.4 | 11399.1 | 14859.9 | 20853.2 | 23677.3 | 22973.0 | 13038.5 | 3663.7 | 1459.8 | 816.2 | 324.2 |
| 77.5° | 5107.2 | 4976.6 | 7250.3 | 12401.9 | 16053.8 | 16016.5 | 6569.4 | 1627.8 | 851.2 | 552.7 | 163.3 |
| 80° | 1459.8 | 1641.8 | 2775.1 | 5895.4 | 8913.1 | 9011.0 | 2523.3 | 785.9 | 590.0 | 431.4 | 83.9 |
| 82.5° | 440.8 | 450.1 | 1019.1 | 2607.2 | 4433.2 | 4179.0 | 946.8 | 401.1 | 424.5 | 342.8 | 48.9 |
| 85° | 77.0 | 95.6 | 300.8 | 918.9 | 1690.7 | 1282.6 | 237.9 | 191.2 | 279.8 | 226.2 | 28.0 |
| 87.5° | 4.7 | 7.0 | 100.3 | 104.9 | 149.2 | 86.3 | 42.0 | 28.0 | 60.6 | 60.6 | 16.3 |
| 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-SA7D-835-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4885.6 | 4885.6 | 4885.6 | 4885.6 | 4885.6 | 4885.6 | 4885.6 | 4885.6 | 4885.6 | 4885.6 | 4885.6 |
| 2.5° | 4902.0 | 4916.0 | 4906.7 | 4885.6 | 4850.7 | 4808.7 | 4752.7 | 4706.1 | 4666.4 | 4645.5 | 4671.1 |
| 5° | 4932.3 | 4950.9 | 4904.3 | 4799.3 | 4640.8 | 4468.2 | 4272.3 | 4120.7 | 4001.8 | 3964.5 | 3950.5 |
| 7.5° | 4978.9 | 4990.6 | 4864.6 | 4631.4 | 4295.6 | 3887.5 | 3530.7 | 3229.9 | 2996.7 | 2926.7 | 2824.1 |
| 10° | 5039.5 | 5032.6 | 4794.7 | 4360.9 | 3770.9 | 3157.6 | 2604.9 | 2194.4 | 1884.3 | 1772.3 | 1763.0 |
| 12.5° | 5132.9 | 5095.5 | 4706.1 | 3992.4 | 3145.9 | 2343.7 | 1660.4 | 1298.9 | 1103.1 | 1037.8 | 1023.8 |
| 15° | 5249.5 | 5160.8 | 4566.1 | 3561.0 | 2409.0 | 1513.5 | 1023.8 | 914.2 | 888.5 | 883.9 | 879.2 |
| 17.5° | 5387.0 | 5247.1 | 4381.9 | 3031.7 | 1693.1 | 981.8 | 855.9 | 853.5 | 855.9 | 851.2 | 848.9 |
| 20° | 5573.6 | 5338.0 | 4162.7 | 2404.4 | 1119.4 | 827.9 | 816.2 | 816.2 | 818.5 | 816.2 | 816.2 |
| 22.5° | 5771.8 | 5445.4 | 3892.2 | 1835.4 | 844.2 | 785.9 | 783.5 | 788.2 | 792.9 | 790.6 | 790.6 |
| 25° | 6016.7 | 5585.3 | 3535.4 | 1256.9 | 755.6 | 750.9 | 753.2 | 762.6 | 771.9 | 774.2 | 771.9 |
| 27.5° | 6371.2 | 5757.8 | 3152.9 | 865.2 | 692.6 | 697.3 | 720.6 | 743.9 | 757.9 | 760.2 | 760.2 |
| 30° | 6770.0 | 5949.1 | 2653.9 | 702.0 | 641.3 | 641.3 | 669.3 | 713.6 | 743.9 | 748.6 | 750.9 |
| 32.5° | 7283.0 | 6170.6 | 2101.2 | 632.0 | 592.3 | 587.6 | 613.3 | 667.0 | 722.9 | 739.2 | 739.2 |
| 35° | 7917.3 | 6431.8 | 1562.5 | 587.6 | 557.3 | 545.7 | 559.7 | 604.0 | 676.3 | 722.9 | 727.6 |
| 37.5° | 8661.2 | 6679.0 | 1142.7 | 548.0 | 524.7 | 508.4 | 517.7 | 552.7 | 611.0 | 681.0 | 699.6 |
| 40° | 9349.2 | 6898.2 | 853.5 | 515.4 | 492.0 | 480.4 | 487.4 | 503.7 | 552.7 | 618.0 | 629.7 |
| 42.5° | 10100.1 | 7068.5 | 678.6 | 480.4 | 459.4 | 454.8 | 454.8 | 461.7 | 494.4 | 531.7 | 534.0 |
| 45° | 10848.7 | 7129.1 | 569.0 | 438.4 | 424.5 | 429.1 | 426.7 | 422.1 | 436.1 | 431.4 | 431.4 |
| 47.5° | 11382.7 | 7056.8 | 471.1 | 398.8 | 398.8 | 405.8 | 394.1 | 377.8 | 370.8 | 342.8 | 345.1 |
| 50° | 11748.8 | 6793.2 | 387.1 | 352.1 | 370.8 | 380.1 | 356.8 | 331.1 | 305.5 | 275.1 | 268.2 |
| 52.5° | 11900.4 | 6324.5 | 317.2 | 291.5 | 328.8 | 340.4 | 312.5 | 282.2 | 242.5 | 216.9 | 209.9 |
| 55° | 11802.5 | 5746.2 | 263.6 | 237.9 | 277.5 | 291.5 | 263.6 | 228.6 | 184.2 | 156.2 | 151.6 |
| 57.5° | 11371.0 | 5055.9 | 223.9 | 188.9 | 221.5 | 230.9 | 212.2 | 174.9 | 130.6 | 102.6 | 102.6 |
| 60° | 10624.8 | 4342.3 | 181.9 | 149.2 | 165.6 | 179.5 | 160.9 | 125.9 | 88.6 | 63.0 | 58.3 |
| 62.5° | 9111.3 | 3526.1 | 146.9 | 116.6 | 116.6 | 128.3 | 112.0 | 91.0 | 56.0 | 32.7 | 30.3 |
| 65° | 6578.7 | 2418.4 | 116.6 | 86.3 | 83.9 | 83.9 | 70.0 | 60.6 | 32.7 | 14.0 | 9.3 |
| 67.5° | 3575.0 | 1364.2 | 93.3 | 65.3 | 58.3 | 56.0 | 44.3 | 35.0 | 14.0 | 2.3 | 0.0 |
| 70° | 1406.2 | 524.7 | 72.3 | 44.3 | 37.3 | 35.0 | 23.3 | 16.3 | 9.3 | 0.0 | 0.0 |
| 71° | 953.8 | 361.4 | 63.0 | 37.3 | 30.3 | 25.7 | 18.6 | 14.0 | 7.0 | 0.0 | 0.0 |
| 72.5° | 545.7 | 223.9 | 48.9 | 28.0 | 23.3 | 18.6 | 14.0 | 9.3 | 7.0 | 0.0 | 0.0 |
| 75° | 237.9 | 114.2 | 30.3 | 21.0 | 16.3 | 11.7 | 9.3 | 7.0 | 2.3 | 0.0 | 0.0 |
| 77.5° | 121.3 | 63.0 | 21.0 | 16.3 | 9.3 | 7.0 | 4.7 | 2.3 | 0.0 | 0.0 | 0.0 |
| 80° | 67.7 | 32.7 | 14.0 | 9.3 | 7.0 | 4.7 | 2.3 | 2.3 | 0.0 | 0.0 | 0.0 |
| 82.5° | 37.3 | 18.6 | 7.0 | 4.7 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 23.3 | 11.7 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 11.7 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 2.3 | 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)