

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: P458840

Luminaire Tested: **GLAN-SA3D-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3D-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17796 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

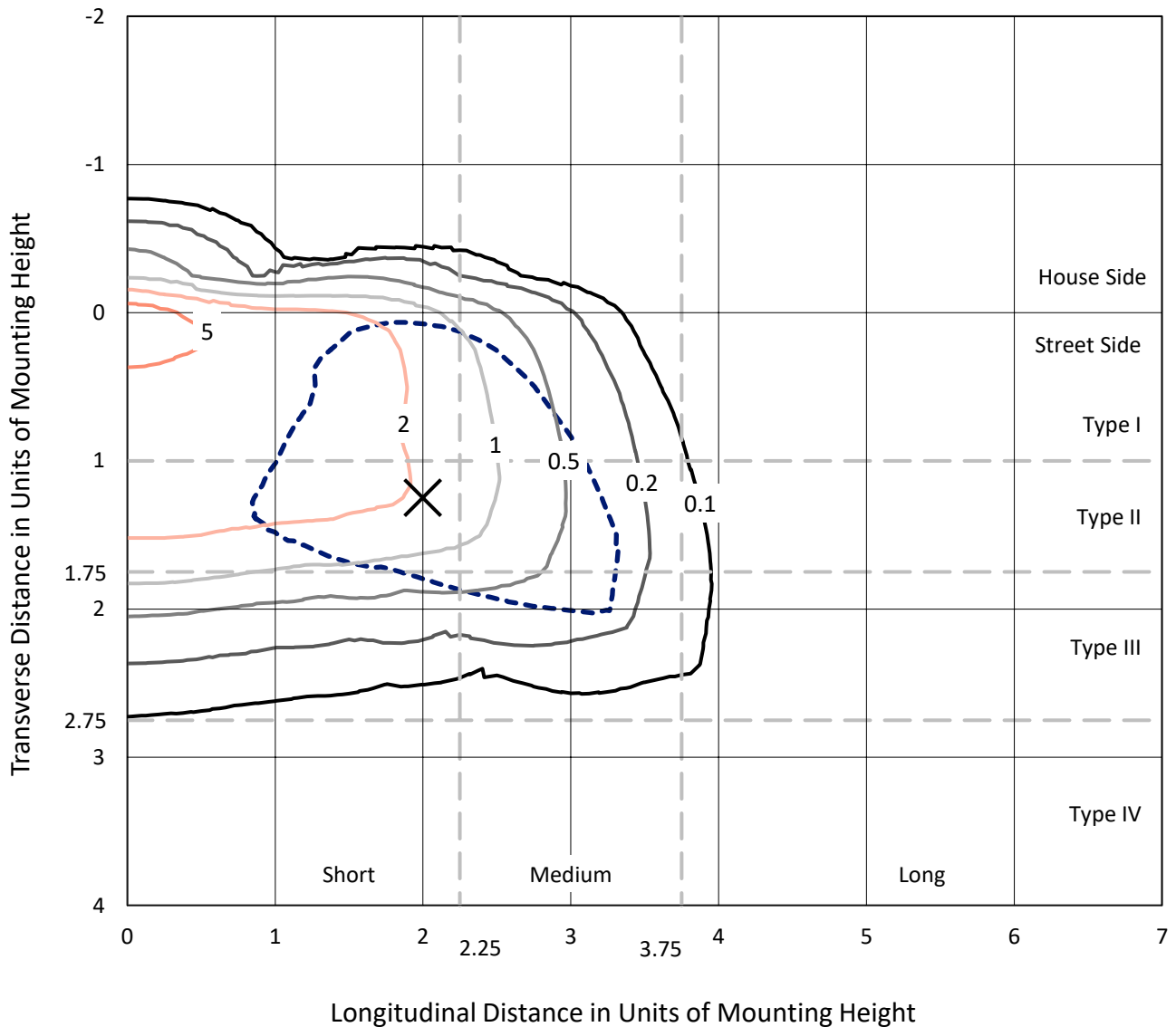
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

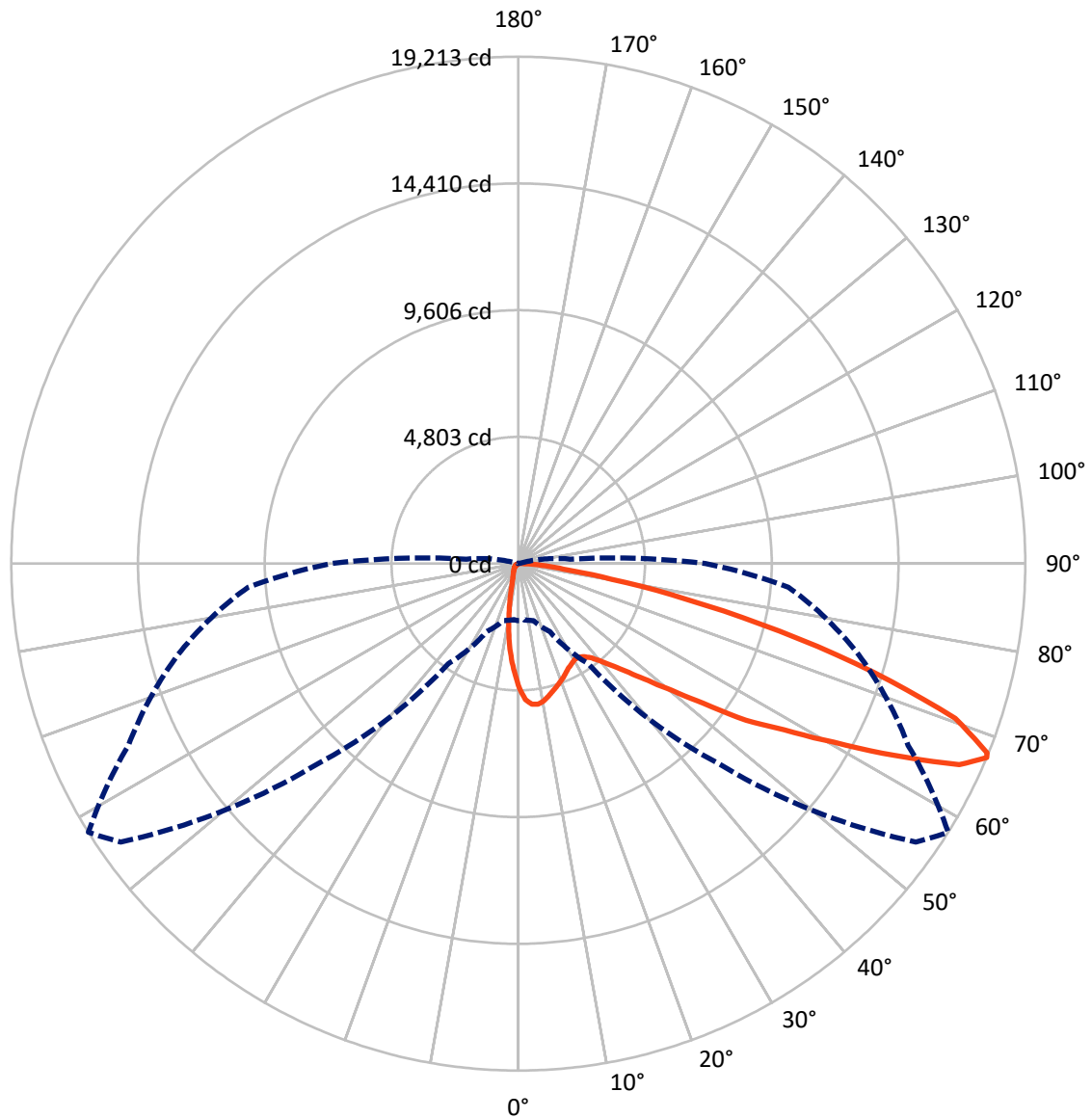
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1284.3 | 0.0 | 1284.3 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 16511.7 | 0.0 | 16511.7 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 17796.0 | 0.0 | 17796.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 382.8 | 2.2 |
| 10°-20° | 826.8 | 4.6 |
| 20°-30° | 1120.4 | 6.3 |
| 30°-40° | 1553.9 | 8.7 |
| 40°-50° | 2478.3 | 13.9 |
| 50°-60° | 4283.9 | 24.1 |
| 60°-70° | 4893.5 | 27.5 |
| 70°-80° | 2040.2 | 11.5 |
| 80°-90° | 216.3 | 1.2 |
| 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° | 17796.0 | 100.0 |
| 0°-180° | 17796.0 | 100.0 |

Coefficient of Utilization



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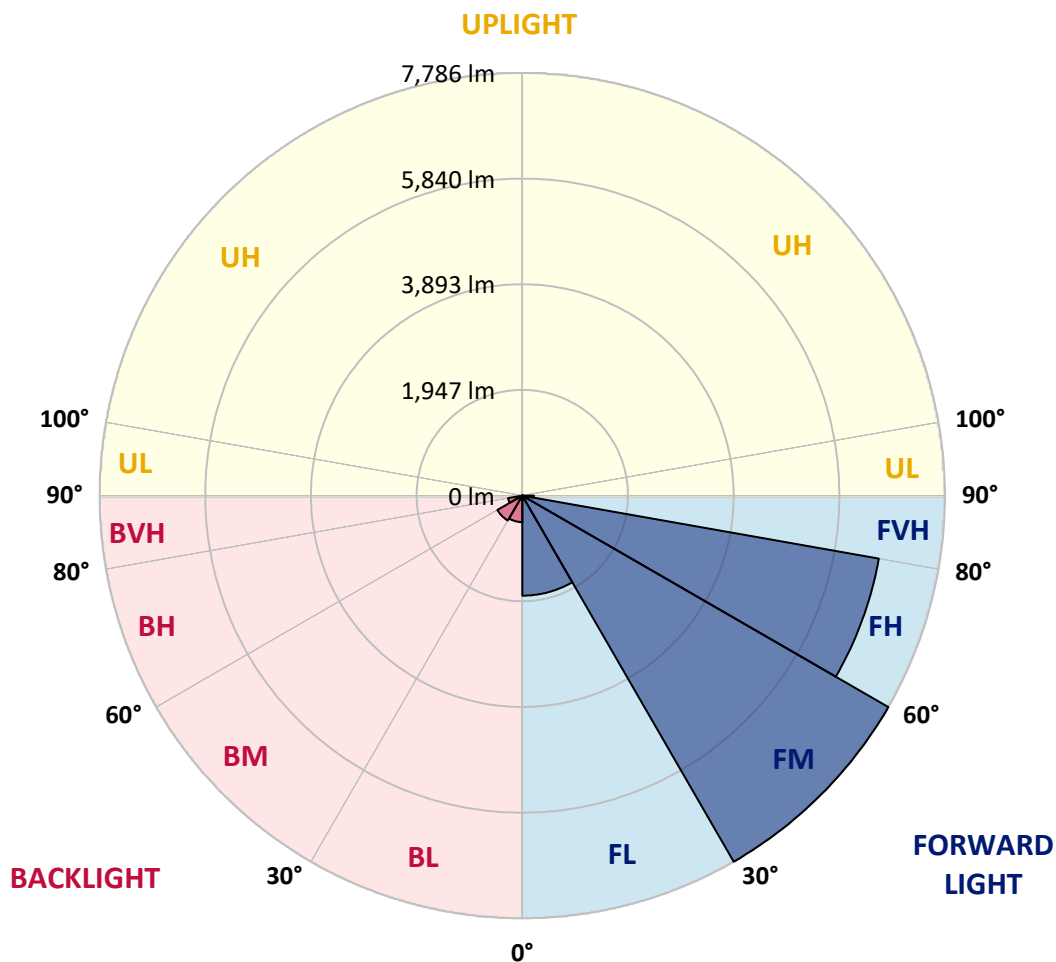
CATALOG NUMBER: GLAN-SA3D-735-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1842.3 | 10.4 | | | |
| FM (30°-60°) | 7786.5 | 43.8 | | | |
| FH (60°-80°) | 6668.2 | 37.5 | | | G3/7500 |
| FVH (80°-90°) | 214.7 | 1.2 | | | G2/225 |
| BL (0°-30°) | 487.7 | 2.7 | B1/500 | | |
| BM (30°-60°) | 529.5 | 3.0 | B1/1000 | | |
| BH (60°-80°) | 265.5 | 1.5 | 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: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4717.6 | 4717.6 | 4717.6 | 4717.6 | 4717.6 | 4717.6 | 4717.6 | 4717.6 | 4717.6 | 4717.6 | 4717.6 |
| 2.5° | 5475.1 | 5483.4 | 5452.5 | 5427.5 | 5363.3 | 5294.3 | 5202.7 | 5154.0 | 5070.7 | 4926.9 | 4767.5 |
| 5° | 5603.5 | 5614.2 | 5609.5 | 5603.5 | 5578.5 | 5511.9 | 5395.4 | 5352.6 | 5230.1 | 4995.8 | 4708.0 |
| 7.5° | 5318.1 | 5357.3 | 5362.1 | 5408.5 | 5452.5 | 5458.4 | 5414.4 | 5382.3 | 5269.3 | 4994.6 | 4602.2 |
| 10° | 4939.9 | 4966.1 | 5004.2 | 5057.7 | 5163.5 | 5251.5 | 5294.3 | 5289.6 | 5224.2 | 4957.8 | 4478.5 |
| 12.5° | 4558.2 | 4572.5 | 4630.7 | 4722.3 | 4851.9 | 5001.8 | 5115.9 | 5138.5 | 5139.7 | 4913.8 | 4375.1 |
| 15° | 4230.0 | 4224.0 | 4269.2 | 4375.1 | 4557.0 | 4744.9 | 4949.5 | 4985.1 | 5042.2 | 4871.0 | 4278.7 |
| 17.5° | 3949.3 | 3980.3 | 3987.4 | 4103.9 | 4271.6 | 4515.4 | 4775.8 | 4838.9 | 4953.0 | 4834.1 | 4199.1 |
| 20° | 3775.7 | 3792.4 | 3807.8 | 3873.2 | 4024.3 | 4281.1 | 4612.9 | 4699.7 | 4869.8 | 4800.8 | 4109.9 |
| 22.5° | 3724.6 | 3735.3 | 3722.2 | 3742.4 | 3849.4 | 4077.8 | 4435.7 | 4551.1 | 4790.1 | 4769.9 | 4037.3 |
| 25° | 3763.8 | 3774.5 | 3743.6 | 3719.8 | 3756.7 | 3912.5 | 4264.5 | 4404.8 | 4725.9 | 4763.9 | 3982.6 |
| 27.5° | 3859.0 | 3879.2 | 3836.4 | 3793.5 | 3772.1 | 3823.3 | 4130.1 | 4293.0 | 4681.9 | 4792.5 | 3957.7 |
| 30° | 4007.6 | 4019.5 | 3987.4 | 3935.1 | 3886.3 | 3835.2 | 4059.9 | 4215.7 | 4670.0 | 4859.1 | 3955.3 |
| 32.5° | 4169.3 | 4194.3 | 4176.5 | 4142.0 | 4079.0 | 3957.7 | 4080.1 | 4218.1 | 4698.5 | 4955.4 | 3985.0 |
| 35° | 4369.1 | 4397.7 | 4414.3 | 4407.2 | 4326.3 | 4175.3 | 4208.6 | 4325.1 | 4774.6 | 5132.6 | 4065.9 |
| 37.5° | 4565.3 | 4590.3 | 4684.3 | 4716.4 | 4645.0 | 4502.3 | 4458.3 | 4535.6 | 4942.3 | 5364.5 | 4212.1 |
| 40° | 4790.1 | 4823.4 | 4955.4 | 5077.9 | 5043.4 | 4893.6 | 4812.7 | 4876.9 | 5199.2 | 5714.1 | 4489.2 |
| 42.5° | 5005.3 | 5064.8 | 5265.8 | 5482.2 | 5514.3 | 5346.6 | 5293.1 | 5314.5 | 5579.7 | 6217.1 | 4875.7 |
| 45° | 5311.0 | 5366.9 | 5626.1 | 5919.8 | 6070.9 | 5940.1 | 5885.4 | 5881.8 | 6101.8 | 6924.7 | 5502.4 |
| 47.5° | 5752.2 | 5802.1 | 6107.7 | 6397.9 | 6666.7 | 6684.5 | 6581.0 | 6616.7 | 6758.2 | 7752.4 | 6270.7 |
| 50° | 6293.2 | 6411.0 | 6612.0 | 6914.0 | 7273.1 | 7563.3 | 7595.4 | 7547.9 | 7669.2 | 8710.9 | 7193.5 |
| 52.5° | 7079.3 | 7124.5 | 7308.8 | 7557.4 | 7978.3 | 8470.7 | 8852.4 | 8787.0 | 8748.9 | 9624.2 | 8125.8 |
| 55° | 7665.6 | 7726.2 | 8012.8 | 8354.1 | 8971.3 | 9620.6 | 10448.3 | 10470.9 | 9990.5 | 10501.8 | 9037.9 |
| 57.5° | 7488.4 | 7581.1 | 8015.2 | 8701.4 | 10058.3 | 11245.1 | 11861.1 | 11876.5 | 11139.2 | 11354.5 | 10067.8 |
| 60° | 6578.7 | 6622.7 | 7244.6 | 8160.3 | 10151.0 | 13005.1 | 13864.9 | 13740.0 | 12308.2 | 12308.2 | 10977.5 |
| 62.5° | 4665.2 | 4734.2 | 5238.4 | 6585.8 | 9167.5 | 13616.3 | 16264.7 | 16006.6 | 13918.4 | 13220.3 | 11519.8 |
| 65° | 2981.3 | 2914.7 | 3248.9 | 4157.4 | 6829.6 | 12713.7 | 18354.1 | 18369.6 | 15433.4 | 13585.4 | 11223.7 |
| 67° | 2159.6 | 2133.4 | 2229.7 | 2842.2 | 4630.7 | 10687.3 | 18398.1 | 19212.7 | 16303.9 | 13354.7 | 10277.1 |
| 67.5° | 1975.3 | 1995.5 | 2065.6 | 2563.9 | 4207.4 | 9725.3 | 18198.3 | 19162.8 | 16500.1 | 13215.6 | 9934.6 |
| 70° | 1497.2 | 1462.7 | 1538.8 | 1813.5 | 2522.3 | 6135.1 | 15654.6 | 17575.2 | 16256.4 | 11834.9 | 7937.9 |
| 72.5° | 1101.2 | 1097.6 | 1203.5 | 1482.9 | 1942.0 | 3267.9 | 11751.7 | 14092.0 | 13281.0 | 9011.8 | 4998.2 |
| 75° | 743.2 | 776.5 | 945.4 | 1239.1 | 1760.0 | 2119.2 | 8011.6 | 10223.6 | 9219.9 | 5117.1 | 2043.0 |
| 77.5° | 423.4 | 425.7 | 608.9 | 995.4 | 1580.4 | 1705.3 | 4747.3 | 6513.2 | 4880.5 | 1701.7 | 606.5 |
| 80° | 183.1 | 201.0 | 302.1 | 723.0 | 1310.5 | 1510.3 | 2722.1 | 3579.5 | 1974.1 | 360.3 | 196.2 |
| 82.5° | 67.8 | 79.7 | 133.2 | 444.8 | 956.1 | 1243.9 | 1644.7 | 1708.9 | 669.5 | 127.2 | 122.5 |
| 85° | 0.0 | 2.4 | 48.8 | 208.1 | 498.3 | 555.4 | 1098.8 | 1013.2 | 296.1 | 60.6 | 79.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 21.4 | 65.4 | 206.9 | 341.3 | 380.5 | 71.4 | 21.4 | 19.0 |
| 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-SA3D-735-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4717.6 | 4717.6 | 4717.6 | 4717.6 | 4717.6 | 4717.6 | 4717.6 | 4717.6 | 4717.6 | 4717.6 | 4717.6 |
| 2.5° | 4681.9 | 4604.6 | 4410.7 | 4216.9 | 4073.0 | 3952.9 | 3772.1 | 3673.4 | 3621.1 | 3543.8 | 3548.6 |
| 5° | 4564.1 | 4407.2 | 4065.9 | 3712.7 | 3427.3 | 3149.0 | 2816.0 | 2681.6 | 2568.7 | 2504.5 | 2461.6 |
| 7.5° | 4389.3 | 4157.4 | 3652.0 | 3181.1 | 2742.3 | 2255.9 | 1890.8 | 1647.0 | 1482.9 | 1422.3 | 1364.0 |
| 10° | 4197.9 | 3889.9 | 3232.2 | 2579.4 | 1970.5 | 1468.7 | 1159.5 | 935.9 | 856.2 | 782.5 | 789.6 |
| 12.5° | 4020.7 | 3646.1 | 2846.9 | 2035.9 | 1380.7 | 933.5 | 727.8 | 636.2 | 610.1 | 601.7 | 601.7 |
| 15° | 3875.6 | 3413.0 | 2433.1 | 1530.5 | 946.6 | 670.7 | 582.7 | 557.7 | 548.2 | 545.8 | 545.8 |
| 17.5° | 3721.0 | 3191.8 | 2059.7 | 1130.9 | 688.5 | 561.3 | 531.6 | 514.9 | 511.4 | 509.0 | 509.0 |
| 20° | 3583.1 | 2969.4 | 1705.3 | 842.0 | 556.5 | 505.4 | 486.4 | 475.7 | 472.1 | 469.7 | 470.9 |
| 22.5° | 3452.2 | 2772.0 | 1372.3 | 636.2 | 490.0 | 460.2 | 441.2 | 430.5 | 423.4 | 417.4 | 418.6 |
| 25° | 3335.7 | 2581.8 | 1103.6 | 520.9 | 441.2 | 415.0 | 396.0 | 380.5 | 365.1 | 357.9 | 356.8 |
| 27.5° | 3253.7 | 2415.3 | 859.8 | 445.9 | 397.2 | 368.7 | 344.9 | 325.8 | 305.6 | 294.9 | 292.5 |
| 30° | 3185.9 | 2246.4 | 680.2 | 393.6 | 353.2 | 325.8 | 296.1 | 268.8 | 247.4 | 236.7 | 231.9 |
| 32.5° | 3141.9 | 2085.9 | 536.3 | 350.8 | 316.3 | 283.0 | 249.7 | 222.4 | 198.6 | 187.9 | 185.5 |
| 35° | 3134.7 | 1951.5 | 438.8 | 315.1 | 283.0 | 247.4 | 212.9 | 183.1 | 162.9 | 152.2 | 149.8 |
| 37.5° | 3185.9 | 1848.0 | 367.5 | 286.6 | 255.7 | 216.4 | 178.4 | 151.0 | 133.2 | 124.9 | 123.7 |
| 40° | 3322.6 | 1782.6 | 318.7 | 262.8 | 230.7 | 187.9 | 152.2 | 128.4 | 110.6 | 102.3 | 102.3 |
| 42.5° | 3583.1 | 1785.0 | 286.6 | 240.2 | 205.7 | 160.5 | 129.6 | 107.0 | 91.6 | 84.4 | 82.1 |
| 45° | 3989.8 | 1865.9 | 259.2 | 217.6 | 181.9 | 139.1 | 110.6 | 88.0 | 72.5 | 66.6 | 66.6 |
| 47.5° | 4534.4 | 2026.4 | 235.5 | 195.0 | 160.5 | 118.9 | 93.9 | 71.4 | 58.3 | 52.3 | 52.3 |
| 50° | 5246.8 | 2284.5 | 215.2 | 176.0 | 142.7 | 102.3 | 76.1 | 58.3 | 45.2 | 40.4 | 39.2 |
| 52.5° | 5991.2 | 2603.2 | 191.5 | 159.4 | 122.5 | 86.8 | 61.8 | 45.2 | 34.5 | 30.9 | 29.7 |
| 55° | 6812.9 | 2914.7 | 168.9 | 142.7 | 99.9 | 72.5 | 48.8 | 35.7 | 25.0 | 21.4 | 21.4 |
| 57.5° | 7641.8 | 3220.4 | 141.5 | 118.9 | 78.5 | 53.5 | 38.1 | 26.2 | 16.6 | 13.1 | 13.1 |
| 60° | 8343.4 | 3319.1 | 120.1 | 96.3 | 59.5 | 38.1 | 27.4 | 16.6 | 9.5 | 5.9 | 5.9 |
| 62.5° | 8439.8 | 2986.1 | 101.1 | 73.7 | 42.8 | 26.2 | 14.3 | 9.5 | 3.6 | 2.4 | 2.4 |
| 65° | 7916.5 | 2426.0 | 84.4 | 55.9 | 28.5 | 13.1 | 5.9 | 3.6 | 1.2 | 0.0 | 0.0 |
| 67° | 7093.6 | 1966.9 | 69.0 | 41.6 | 20.2 | 8.3 | 3.6 | 1.2 | 0.0 | 0.0 | 0.0 |
| 67.5° | 6883.1 | 1875.4 | 66.6 | 39.2 | 17.8 | 7.1 | 2.4 | 1.2 | 0.0 | 0.0 | 0.0 |
| 70° | 5401.3 | 1404.4 | 47.6 | 23.8 | 10.7 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 3357.1 | 794.4 | 34.5 | 14.3 | 7.1 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1268.9 | 278.3 | 23.8 | 9.5 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 394.8 | 105.8 | 14.3 | 7.1 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 133.2 | 40.4 | 9.5 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 82.1 | 16.6 | 5.9 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 51.1 | 7.1 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 9.5 | 2.4 | 1.2 | 0.0 | 0.0 | 0.0 | 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)