

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: P383029

Luminaire Tested: **GAN-SA3D-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20969.1 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

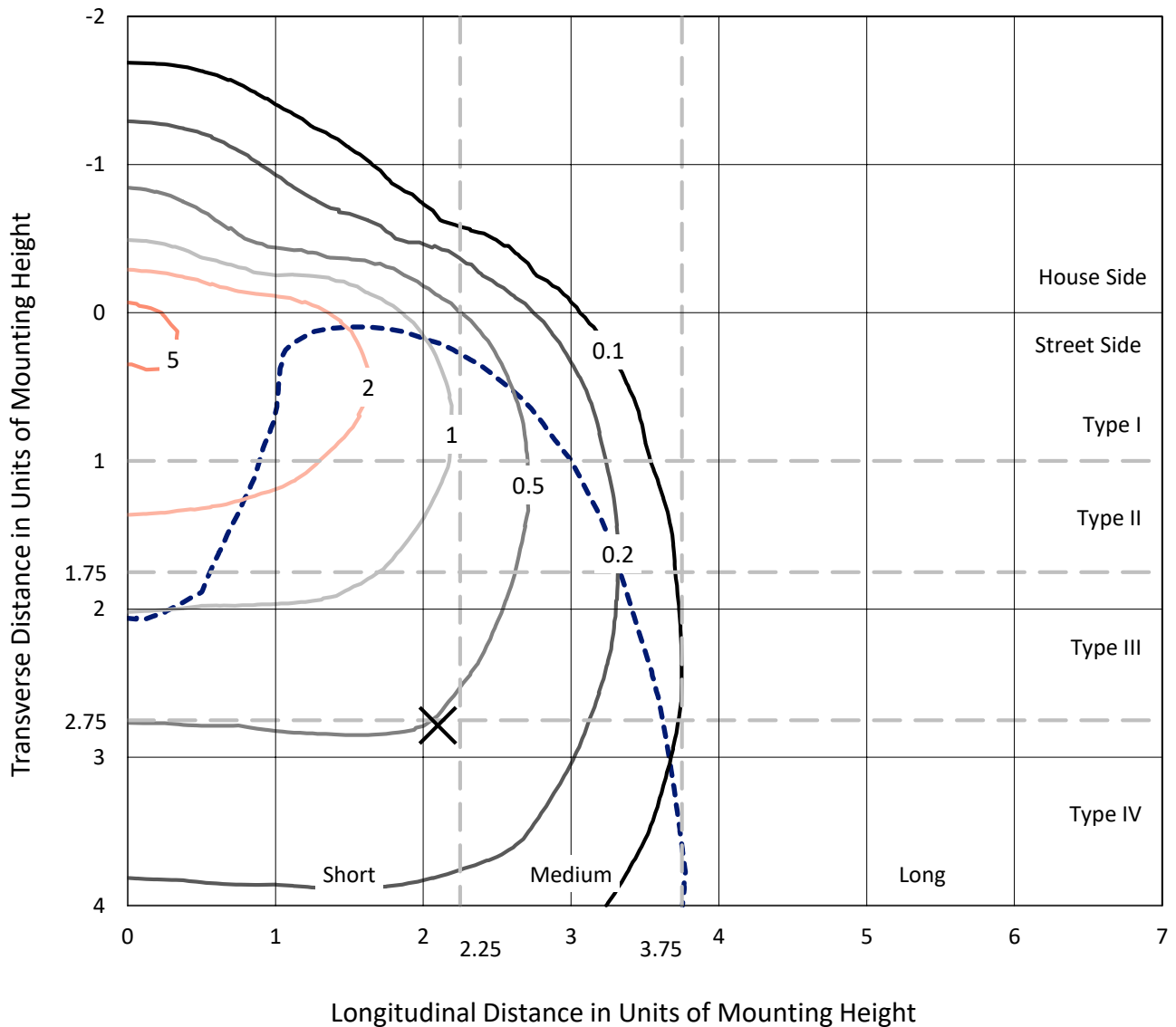
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

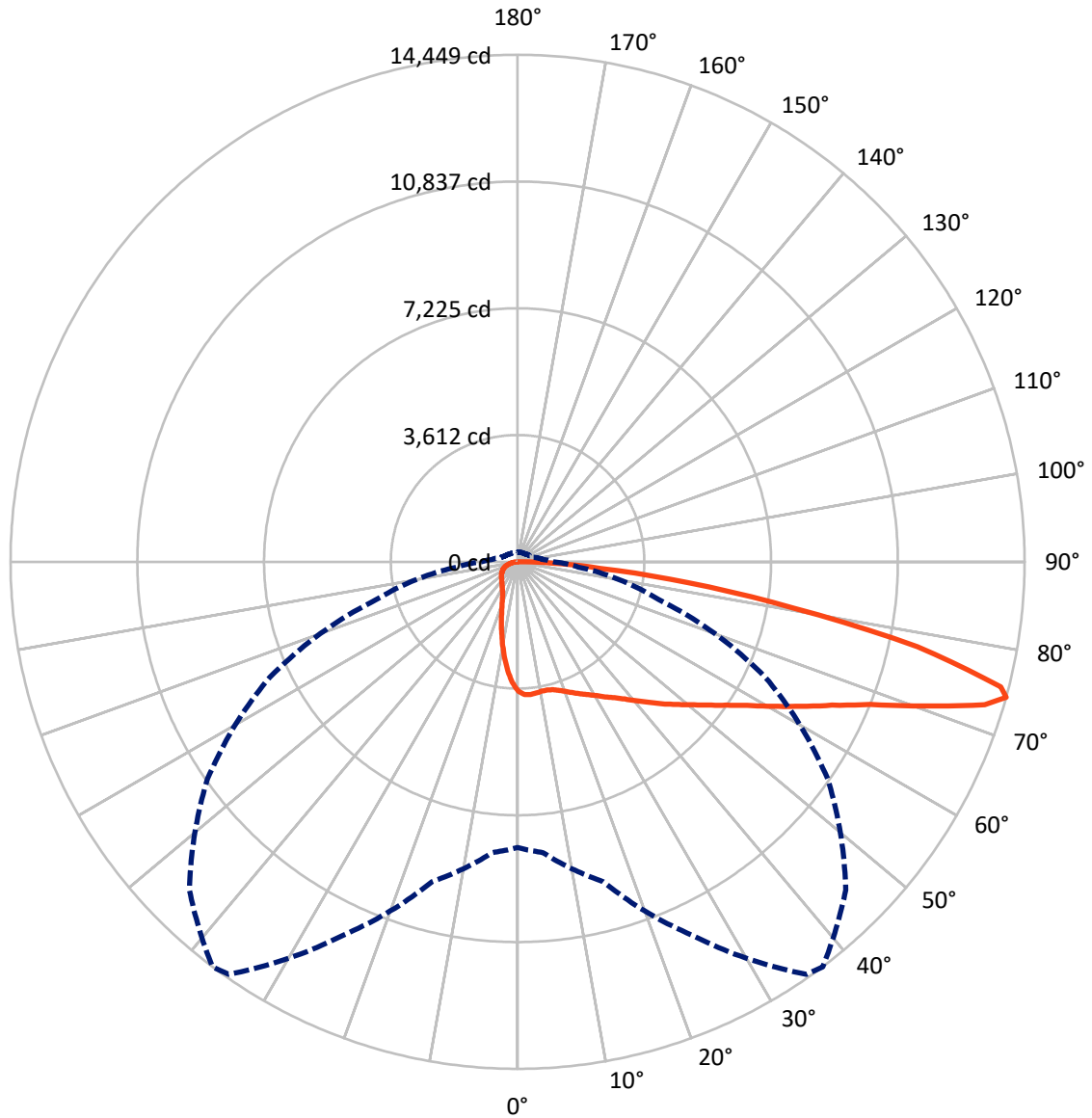
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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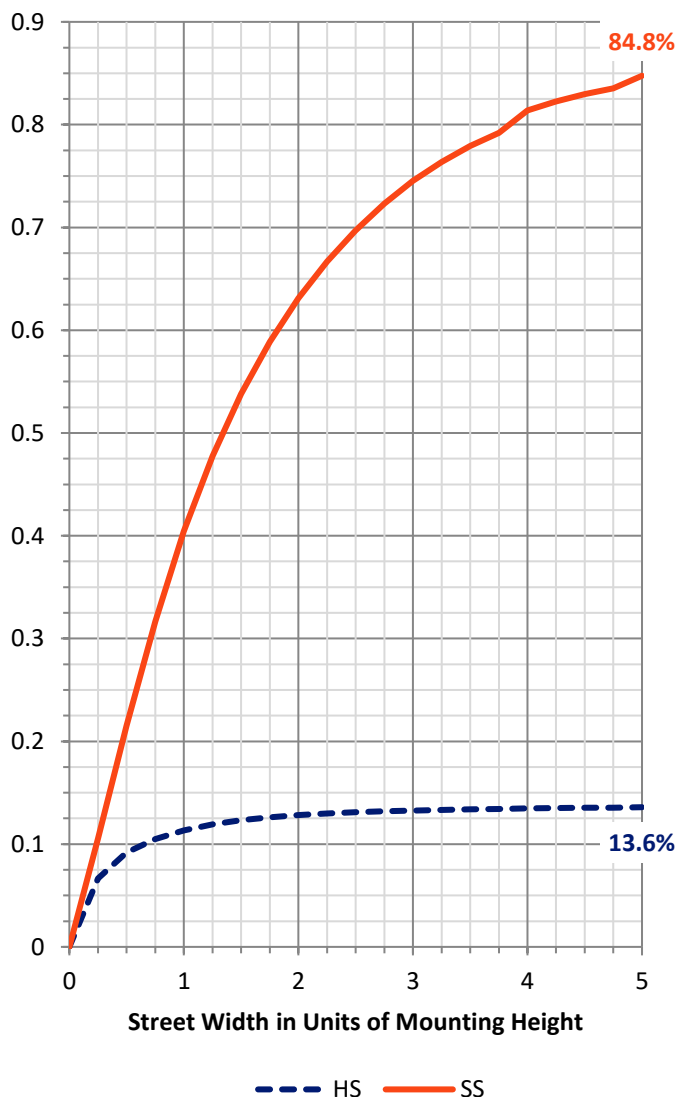
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2885.2 | 0.0 | 2885.2 |
| | % Fixture | 13.8 | 0.0 | 13.8 |
| Street Side | Lumens | 18083.9 | 0.0 | 18083.9 |
| | % Fixture | 86.2 | 0.0 | 86.2 |
| Total | Lumens | 20969.1 | 0.0 | 20969.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 325.4 | 1.6 |
| 10°-20° | 834.0 | 4.0 |
| 20°-30° | 1285.0 | 6.1 |
| 30°-40° | 1868.6 | 8.9 |
| 40°-50° | 2750.2 | 13.1 |
| 50°-60° | 3862.2 | 18.4 |
| 60°-70° | 4888.4 | 23.3 |
| 70°-80° | 4304.4 | 20.5 |
| 80°-90° | 851.1 | 4.1 |
| 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° | 20969.1 | 100.0 |
| 0°-180° | 20969.1 | 100.0 |

Coefficient of Utilization

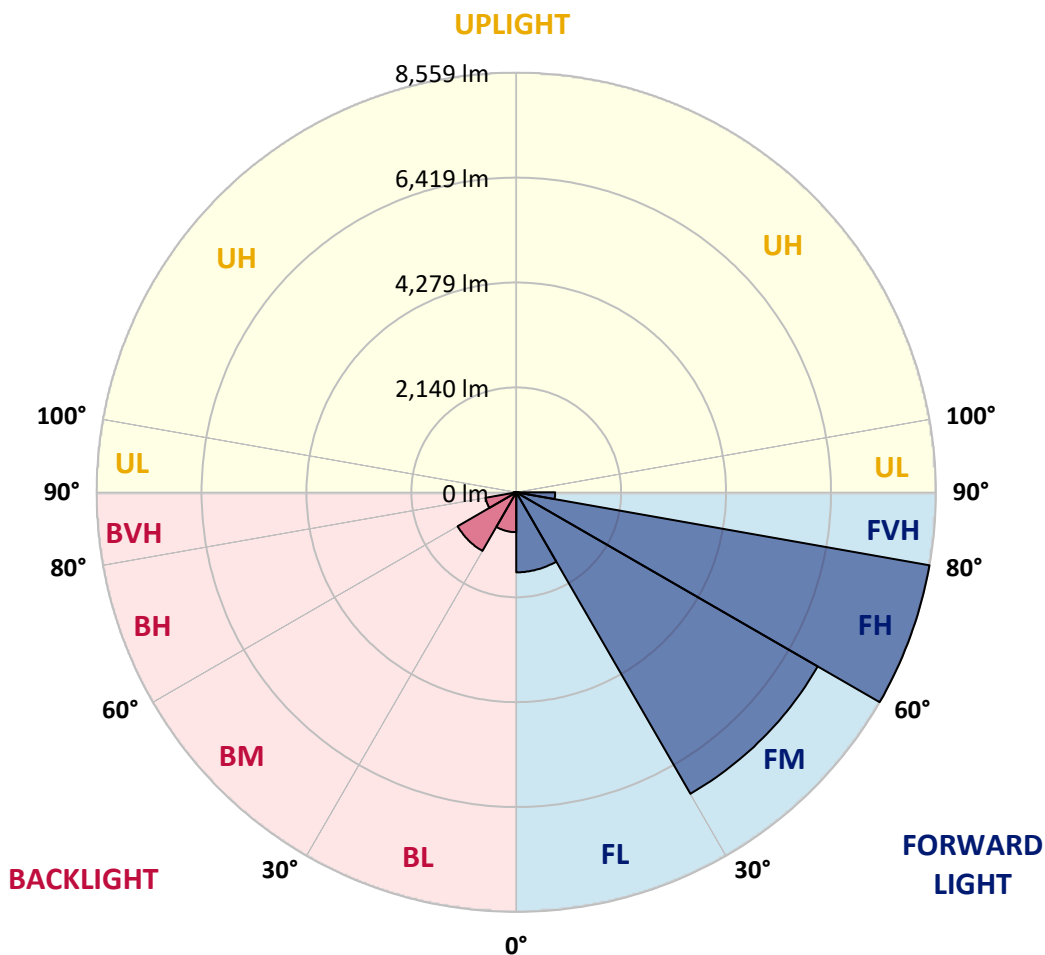


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1631.6 | 7.8 | | | |
| FM (30°-60°) | 7100.3 | 33.9 | | | |
| FH (60°-80°) | 8558.5 | 40.8 | | | G4/12000 |
| FVH (80°-90°) | 793.4 | 3.8 | | | G5 |
| BL (0°-30°) | 812.7 | 3.9 | B2/1000 | | |
| BM (30°-60°) | 1380.7 | 6.6 | B2/2500 | | |
| BH (60°-80°) | 634.2 | 3.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 57.6 | 0.3 | | | G1/100 |
| 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° | 35° | 37° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 3694.7 | 3694.7 | 3694.7 | 3694.7 | 3694.7 | 3694.7 | 3694.7 | 3694.7 | 3694.7 | 3694.7 | 3694.7 |
| 2.5° | 3821.0 | 3821.8 | 3821.0 | 3815.1 | 3801.1 | 3789.3 | 3779.7 | 3765.6 | 3734.6 | 3710.9 | 3675.5 |
| 5° | 3857.2 | 3852.8 | 3849.8 | 3838.7 | 3816.6 | 3803.2 | 3784.8 | 3758.2 | 3707.3 | 3660.0 | 3602.4 |
| 7.5° | 3840.2 | 3835.0 | 3828.4 | 3815.1 | 3790.0 | 3778.9 | 3753.0 | 3718.3 | 3657.0 | 3594.9 | 3512.2 |
| 10° | 3787.8 | 3786.3 | 3783.3 | 3780.4 | 3759.0 | 3750.0 | 3726.5 | 3689.5 | 3628.9 | 3553.6 | 3456.9 |
| 12.5° | 3729.4 | 3733.1 | 3744.9 | 3760.4 | 3750.8 | 3746.4 | 3731.6 | 3706.5 | 3644.5 | 3563.2 | 3446.5 |
| 15° | 3692.5 | 3702.8 | 3734.6 | 3775.2 | 3783.3 | 3781.8 | 3778.2 | 3761.9 | 3696.2 | 3606.0 | 3470.1 |
| 17.5° | 3679.9 | 3696.9 | 3757.5 | 3824.7 | 3848.3 | 3853.5 | 3854.9 | 3826.9 | 3753.8 | 3658.5 | 3494.5 |
| 20° | 3702.8 | 3724.2 | 3812.8 | 3905.2 | 3942.9 | 3945.8 | 3939.1 | 3890.4 | 3808.4 | 3703.6 | 3507.8 |
| 22.5° | 3772.2 | 3791.4 | 3902.3 | 4006.4 | 4049.3 | 4053.6 | 4033.7 | 3959.8 | 3866.0 | 3756.7 | 3526.3 |
| 25° | 3905.9 | 3929.5 | 4040.4 | 4144.5 | 4166.6 | 4167.4 | 4138.6 | 4047.0 | 3941.4 | 3831.4 | 3566.2 |
| 27.5° | 4080.3 | 4103.9 | 4203.6 | 4305.5 | 4293.7 | 4287.1 | 4248.0 | 4156.3 | 4039.7 | 3934.0 | 3637.0 |
| 30° | 4274.5 | 4300.4 | 4394.9 | 4467.3 | 4439.2 | 4426.0 | 4394.2 | 4276.0 | 4176.3 | 4074.3 | 3745.7 |
| 32.5° | 4475.4 | 4499.1 | 4581.8 | 4631.3 | 4595.8 | 4589.9 | 4541.9 | 4434.1 | 4354.3 | 4288.6 | 3921.4 |
| 35° | 4681.5 | 4698.5 | 4779.8 | 4807.8 | 4760.6 | 4759.1 | 4745.8 | 4646.7 | 4596.5 | 4627.6 | 4177.1 |
| 37.5° | 4892.0 | 4896.5 | 4965.9 | 4967.4 | 4953.3 | 4959.3 | 4973.3 | 4911.2 | 4925.3 | 5022.0 | 4509.4 |
| 40° | 5079.6 | 5091.5 | 5141.7 | 5157.2 | 5181.5 | 5202.2 | 5272.4 | 5231.8 | 5340.4 | 5511.8 | 4923.0 |
| 42.5° | 5218.5 | 5241.4 | 5321.9 | 5361.8 | 5440.8 | 5473.3 | 5572.3 | 5610.0 | 5828.6 | 6085.6 | 5415.0 |
| 45° | 5335.9 | 5371.4 | 5500.7 | 5582.7 | 5716.3 | 5773.2 | 5915.0 | 6041.4 | 6380.4 | 6708.4 | 5932.7 |
| 47.5° | 5463.0 | 5508.1 | 5669.8 | 5826.4 | 6008.1 | 6072.4 | 6330.1 | 6519.2 | 6969.1 | 7334.7 | 6421.0 |
| 50° | 5649.8 | 5684.6 | 5842.7 | 6088.6 | 6315.3 | 6398.1 | 6754.8 | 7025.9 | 7567.3 | 7931.6 | 6844.3 |
| 52.5° | 5910.6 | 5897.3 | 6031.0 | 6376.0 | 6680.2 | 6782.2 | 7208.4 | 7565.2 | 8173.8 | 8471.5 | 7201.7 |
| 55° | 6172.8 | 6150.6 | 6244.4 | 6676.6 | 7105.8 | 7212.8 | 7707.7 | 8106.6 | 8750.7 | 8957.5 | 7475.8 |
| 57.5° | 6464.6 | 6422.5 | 6501.6 | 7015.6 | 7590.2 | 7718.1 | 8266.8 | 8682.0 | 9318.0 | 9350.4 | 7650.1 |
| 60° | 6765.2 | 6708.4 | 6796.9 | 7435.9 | 8205.5 | 8356.3 | 8921.3 | 9243.4 | 9852.7 | 9665.1 | 7706.2 |
| 62.5° | 7028.2 | 6988.3 | 7124.9 | 7904.9 | 8899.2 | 9064.6 | 9563.9 | 9840.2 | 10380.1 | 9795.9 | 7503.9 |
| 65° | 7257.9 | 7264.5 | 7500.9 | 8432.3 | 9672.5 | 9849.1 | 10301.1 | 10575.9 | 10795.2 | 9718.3 | 7030.4 |
| 67.5° | 7531.9 | 7569.6 | 7972.9 | 9126.7 | 10646.0 | 10839.6 | 11373.5 | 11378.0 | 11027.2 | 9263.3 | 6098.2 |
| 70° | 7931.6 | 8009.1 | 8622.1 | 10089.9 | 12030.3 | 12296.1 | 12708.4 | 11849.3 | 10701.4 | 8029.8 | 4798.2 |
| 72.5° | 8286.1 | 8430.9 | 9312.8 | 11191.9 | 13717.3 | 13918.9 | 13489.1 | 11577.5 | 9340.1 | 6017.7 | 2989.2 |
| 74° | 8142.0 | 8321.5 | 9438.3 | 11734.8 | 14352.5 | 14449.3 | 13225.4 | 10784.2 | 7787.5 | 4167.4 | 1737.2 |
| 75° | 7831.8 | 8026.8 | 9255.2 | 11729.6 | 14272.1 | 14218.1 | 12588.7 | 9877.9 | 6413.6 | 2842.2 | 1156.0 |
| 77.5° | 6320.6 | 6526.6 | 7798.5 | 10052.9 | 11702.3 | 11651.3 | 9670.3 | 6626.4 | 2809.1 | 932.2 | 587.2 |
| 80° | 3674.8 | 3832.1 | 4841.1 | 6384.1 | 7890.9 | 7983.3 | 6359.7 | 3278.9 | 1105.0 | 523.7 | 398.1 |
| 82.5° | 1632.4 | 1741.0 | 2338.6 | 3258.9 | 4762.0 | 4880.9 | 3330.6 | 1718.1 | 682.5 | 318.3 | 239.3 |
| 85° | 1071.0 | 1151.6 | 1419.7 | 1551.9 | 2267.7 | 2348.9 | 1630.2 | 1337.7 | 450.6 | 175.0 | 175.8 |
| 87.5° | 770.4 | 848.0 | 1054.8 | 921.1 | 1040.7 | 985.4 | 887.1 | 1237.9 | 181.0 | 99.7 | 59.1 |
| 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: GAN-SA3D-735-U-SL4

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3694.7 | 3694.7 | 3694.7 | 3694.7 | 3694.7 | 3694.7 | 3694.7 | 3694.7 | 3694.7 | 3694.7 | 3694.7 |
| 2.5° | 3660.0 | 3648.1 | 3621.6 | 3571.4 | 3543.2 | 3519.7 | 3480.4 | 3457.5 | 3447.2 | 3446.5 | 3450.9 |
| 5° | 3569.1 | 3541.7 | 3473.1 | 3388.9 | 3321.7 | 3260.3 | 3184.3 | 3138.5 | 3106.0 | 3086.8 | 3092.0 |
| 7.5° | 3463.5 | 3420.6 | 3312.8 | 3178.3 | 3070.6 | 2951.6 | 2834.1 | 2764.0 | 2709.3 | 2668.7 | 2676.1 |
| 10° | 3391.1 | 3332.1 | 3174.7 | 2981.1 | 2801.6 | 2628.8 | 2467.0 | 2370.3 | 2293.5 | 2234.4 | 2238.8 |
| 12.5° | 3366.7 | 3287.0 | 3069.1 | 2810.6 | 2558.7 | 2322.3 | 2111.1 | 1962.6 | 1883.5 | 1816.3 | 1821.5 |
| 15° | 3370.4 | 3263.3 | 2980.4 | 2656.9 | 2340.0 | 2042.3 | 1786.1 | 1612.4 | 1505.4 | 1458.8 | 1459.5 |
| 17.5° | 3373.4 | 3236.0 | 2887.3 | 2492.2 | 2123.6 | 1780.8 | 1502.4 | 1326.6 | 1225.5 | 1182.6 | 1183.3 |
| 20° | 3363.7 | 3191.7 | 2772.1 | 2303.1 | 1897.6 | 1540.8 | 1271.2 | 1122.0 | 1045.2 | 1011.9 | 1011.9 |
| 22.5° | 3351.2 | 3139.2 | 2642.1 | 2113.2 | 1674.5 | 1332.5 | 1105.7 | 992.0 | 947.7 | 925.5 | 924.7 |
| 25° | 3357.1 | 3100.1 | 2509.1 | 1918.2 | 1469.1 | 1166.3 | 995.7 | 920.4 | 890.8 | 876.8 | 876.0 |
| 27.5° | 3388.9 | 3081.7 | 2386.5 | 1724.0 | 1289.6 | 1041.5 | 921.9 | 868.7 | 849.5 | 840.5 | 840.5 |
| 30° | 3446.5 | 3081.7 | 2258.7 | 1558.6 | 1140.5 | 949.2 | 864.9 | 828.8 | 815.5 | 809.5 | 809.5 |
| 32.5° | 3547.0 | 3098.6 | 2135.4 | 1394.5 | 1021.5 | 876.8 | 817.7 | 793.3 | 783.0 | 780.0 | 780.0 |
| 35° | 3719.8 | 3156.2 | 2015.0 | 1239.4 | 925.5 | 817.7 | 772.6 | 758.6 | 751.2 | 750.5 | 752.7 |
| 37.5° | 3962.8 | 3273.6 | 1902.0 | 1124.9 | 857.6 | 769.6 | 735.0 | 723.9 | 719.4 | 723.2 | 726.0 |
| 40° | 4268.6 | 3433.2 | 1799.3 | 1021.5 | 805.9 | 731.3 | 700.2 | 692.9 | 690.6 | 695.8 | 700.2 |
| 42.5° | 4637.9 | 3648.9 | 1715.2 | 946.9 | 766.0 | 698.8 | 670.7 | 661.9 | 659.6 | 665.5 | 671.5 |
| 45° | 5037.5 | 3880.8 | 1656.0 | 891.6 | 735.0 | 674.3 | 644.8 | 635.2 | 630.8 | 633.7 | 640.4 |
| 47.5° | 5400.9 | 4100.2 | 1632.4 | 852.4 | 705.4 | 653.7 | 621.9 | 610.2 | 602.7 | 601.2 | 606.4 |
| 50° | 5707.5 | 4263.4 | 1643.4 | 828.8 | 681.8 | 630.8 | 599.7 | 586.5 | 575.4 | 568.7 | 572.4 |
| 52.5° | 5930.5 | 4366.1 | 1653.8 | 818.5 | 663.3 | 605.7 | 575.4 | 562.8 | 548.0 | 537.0 | 537.0 |
| 55° | 6092.3 | 4389.7 | 1631.0 | 810.3 | 649.3 | 578.4 | 548.0 | 536.3 | 521.5 | 508.9 | 507.4 |
| 57.5° | 6155.9 | 4323.2 | 1546.0 | 798.4 | 639.7 | 552.5 | 519.2 | 510.4 | 497.8 | 483.1 | 482.4 |
| 60° | 6070.2 | 4117.9 | 1382.0 | 773.4 | 627.1 | 531.1 | 490.5 | 484.6 | 478.6 | 464.6 | 463.9 |
| 62.5° | 5725.9 | 3667.3 | 1170.0 | 722.4 | 602.0 | 508.2 | 463.9 | 466.8 | 467.5 | 457.9 | 456.5 |
| 65° | 5101.8 | 3048.4 | 963.2 | 655.9 | 564.3 | 480.9 | 436.5 | 450.6 | 458.7 | 457.2 | 455.0 |
| 67.5° | 4194.8 | 2372.6 | 816.2 | 585.8 | 514.9 | 443.2 | 407.0 | 423.2 | 429.9 | 435.0 | 433.5 |
| 70° | 3113.3 | 1673.1 | 675.1 | 511.9 | 455.0 | 398.9 | 368.6 | 376.7 | 372.2 | 378.2 | 380.4 |
| 72.5° | 1735.8 | 1003.8 | 550.3 | 438.0 | 392.9 | 347.2 | 325.8 | 324.3 | 314.7 | 314.7 | 314.7 |
| 74° | 1041.5 | 736.4 | 483.8 | 392.2 | 355.3 | 313.2 | 294.7 | 288.0 | 279.2 | 279.9 | 279.2 |
| 75° | 837.6 | 633.0 | 443.9 | 361.9 | 328.6 | 293.3 | 274.8 | 266.0 | 259.2 | 259.2 | 258.5 |
| 77.5° | 528.8 | 480.9 | 357.5 | 288.0 | 263.0 | 241.6 | 229.0 | 217.1 | 217.1 | 216.4 | 215.7 |
| 80° | 399.6 | 382.6 | 278.4 | 217.9 | 201.7 | 185.4 | 177.3 | 172.1 | 172.1 | 174.3 | 173.5 |
| 82.5° | 274.1 | 288.0 | 195.7 | 152.1 | 144.0 | 132.2 | 130.7 | 131.4 | 129.3 | 126.3 | 125.6 |
| 85° | 200.2 | 216.4 | 132.2 | 96.0 | 87.9 | 80.5 | 86.4 | 89.3 | 85.7 | 79.0 | 76.1 |
| 87.5° | 76.9 | 141.8 | 70.9 | 39.9 | 36.9 | 31.8 | 36.9 | 38.4 | 41.4 | 32.5 | 33.3 |
| 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)