

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: P319657

Luminaire Tested: **GAN-SA3D-730-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319657
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21573 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

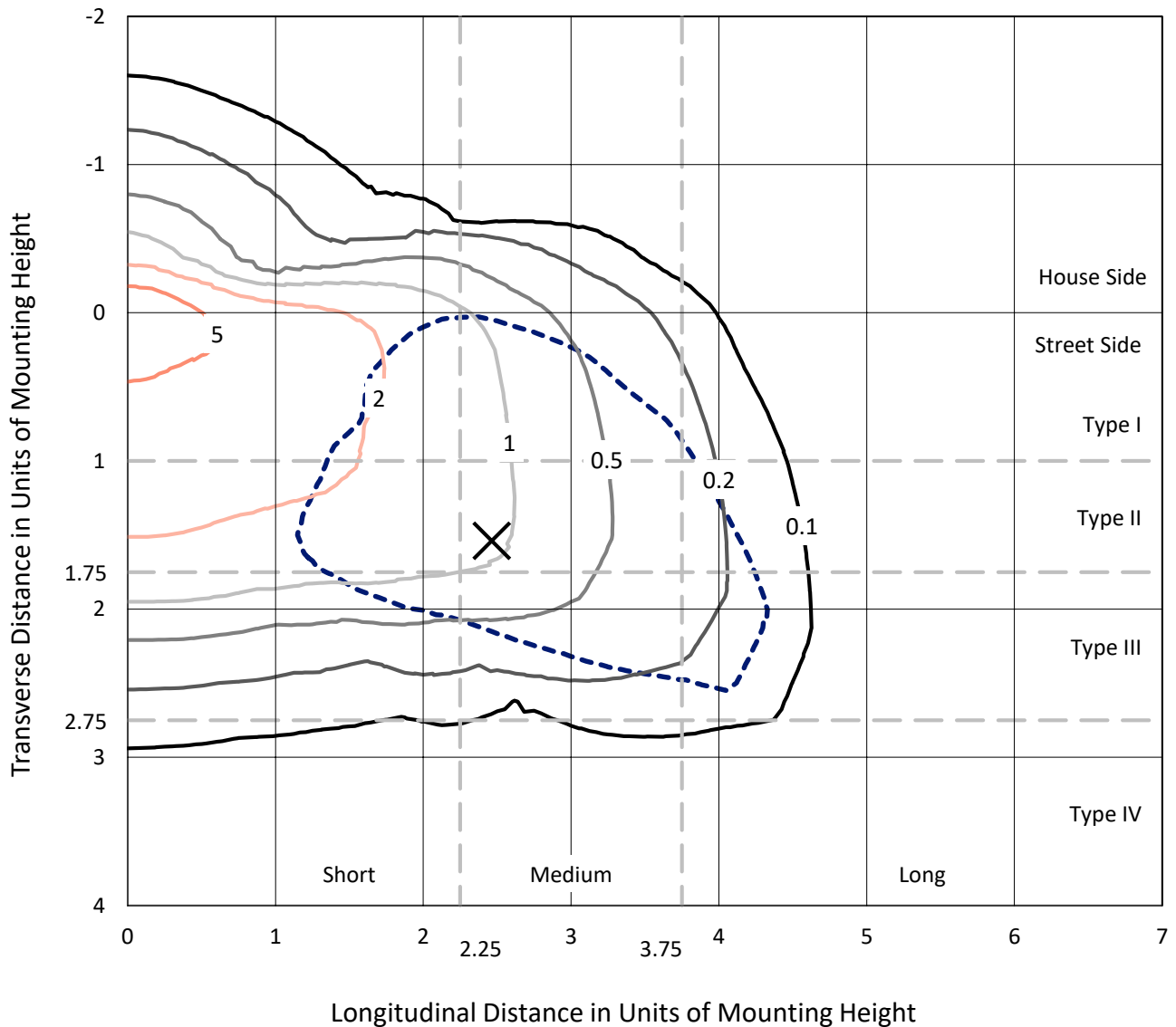
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

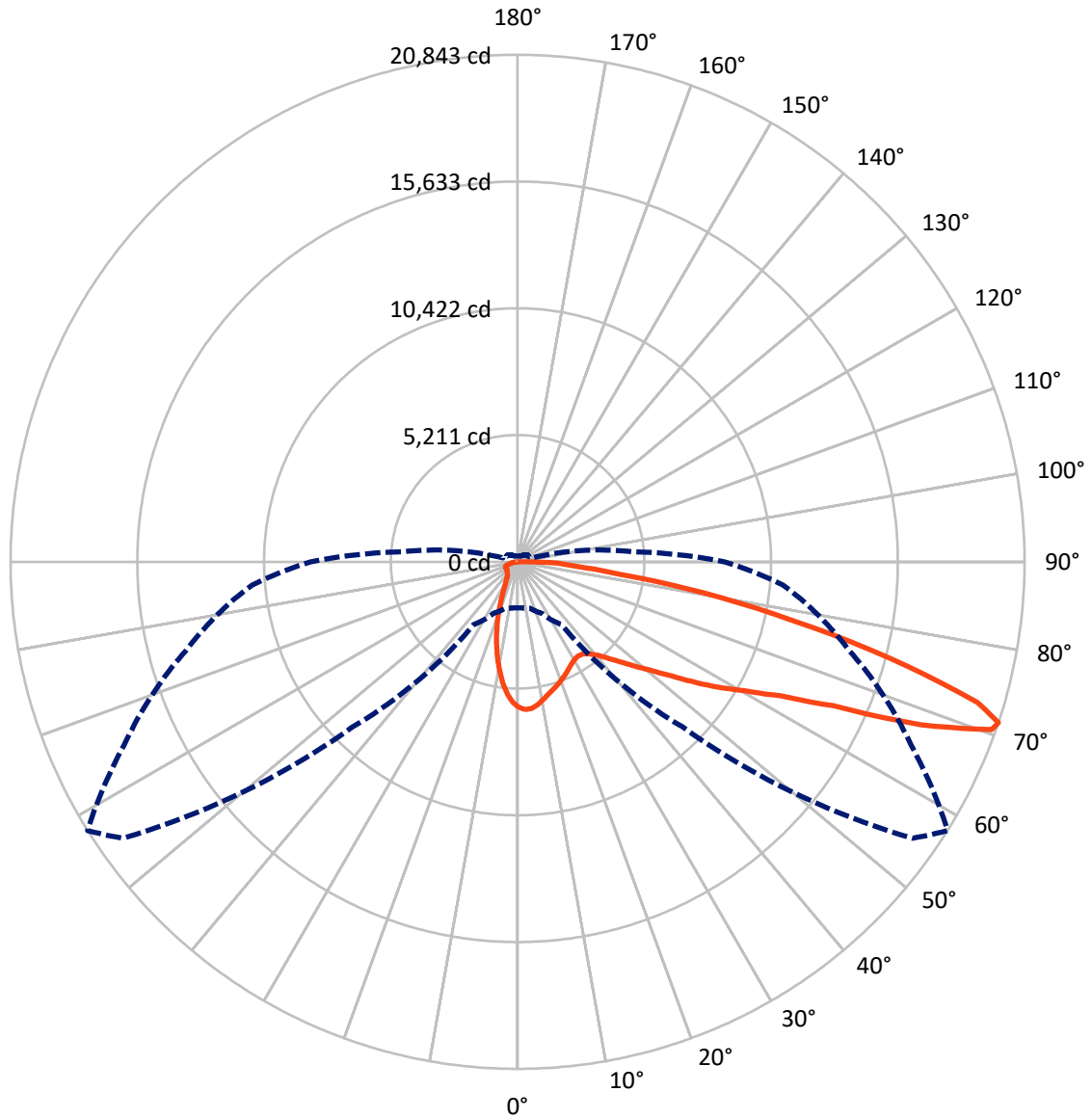
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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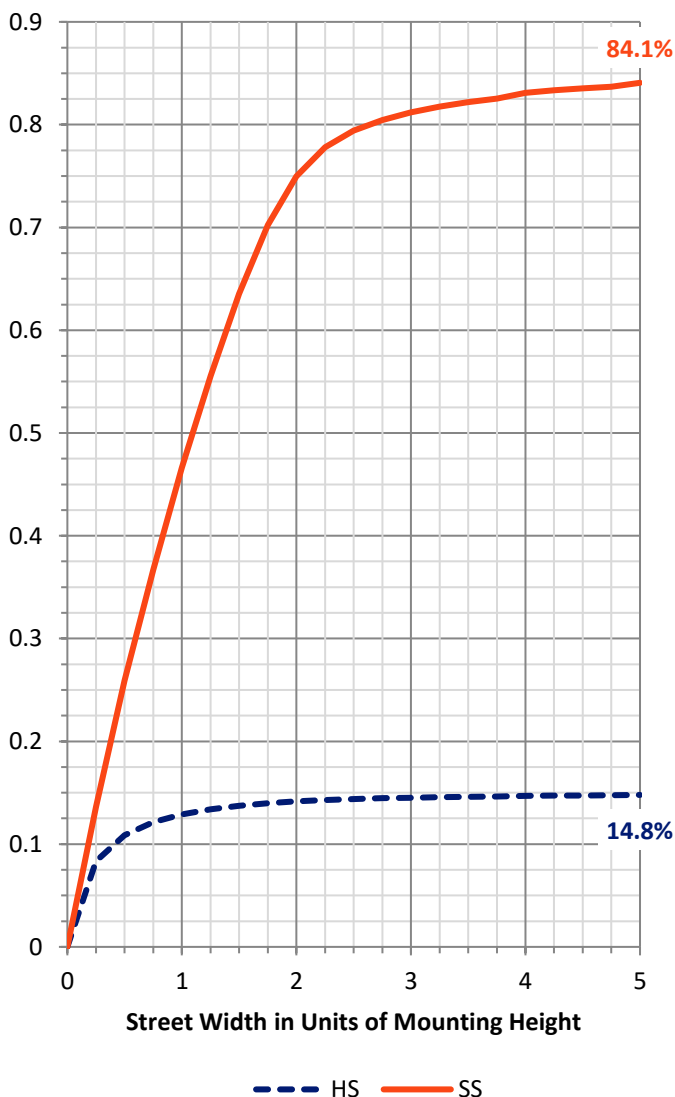
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3225.3 | 0.0 | 3225.3 |
| | % Fixture | 15.0 | 0.0 | 15.0 |
| Street Side | Lumens | 18347.7 | 0.0 | 18347.7 |
| | % Fixture | 85.0 | 0.0 | 85.0 |
| Total | Lumens | 21573.0 | 0.0 | 21573.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 515.7 | 2.4 |
| 10°-20° | 1146.6 | 5.3 |
| 20°-30° | 1457.2 | 6.8 |
| 30°-40° | 1856.2 | 8.6 |
| 40°-50° | 2632.2 | 12.2 |
| 50°-60° | 4073.4 | 18.9 |
| 60°-70° | 5545.4 | 25.7 |
| 70°-80° | 3699.5 | 17.1 |
| 80°-90° | 646.8 | 3.0 |
| 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° | 21573.0 | 100.0 |
| 0°-180° | 21573.0 | 100.0 |

Coefficient of Utilization

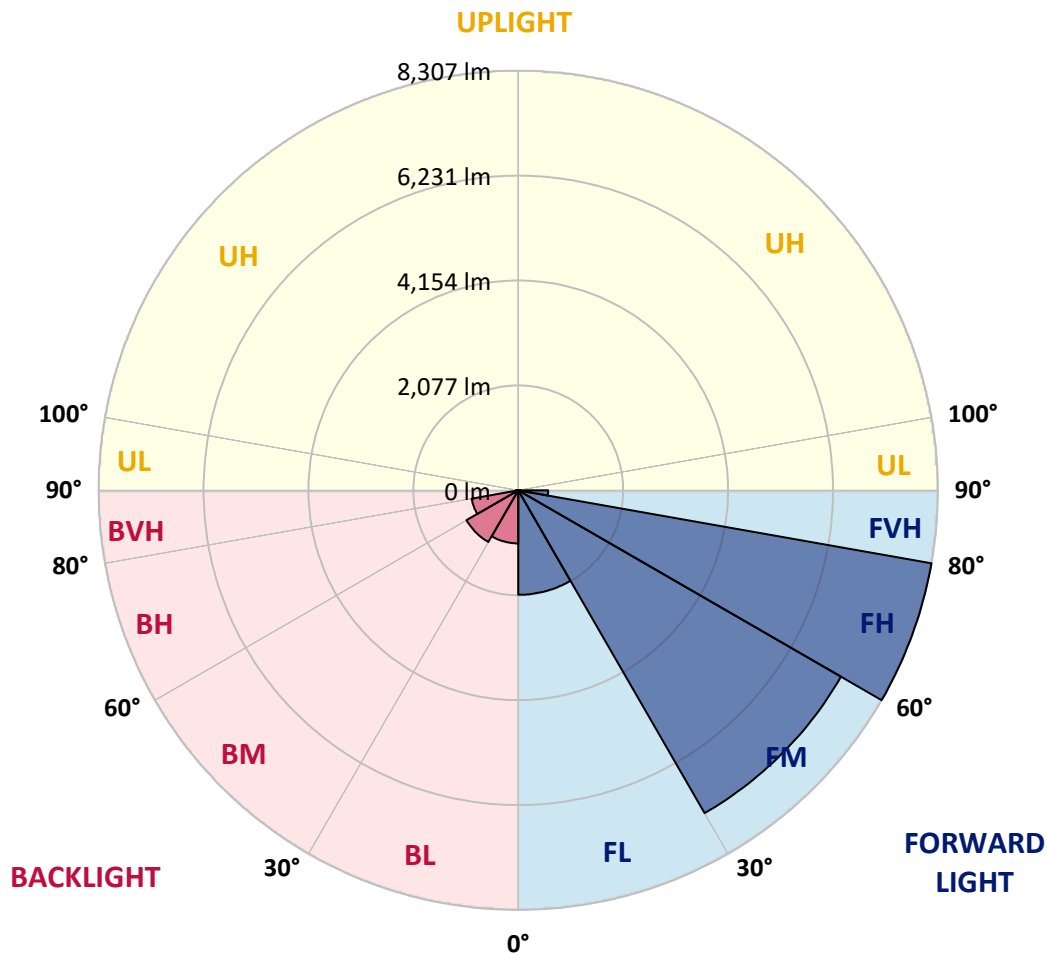


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2068.1 | 9.6 | | | |
| FM (30°-60°) | 7379.0 | 34.2 | | | |
| FH (60°-80°) | 8307.5 | 38.5 | | | G4/12000 |
| FVH (80°-90°) | 593.1 | 2.7 | | | G4/750 |
| BL (0°-30°) | 1051.4 | 4.9 | B3/2500 | | |
| BM (30°-60°) | 1182.8 | 5.5 | B2/2500 | | |
| BH (60°-80°) | 937.4 | 4.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 53.7 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5977.2 | 5977.2 | 5977.2 | 5977.2 | 5977.2 | 5977.2 | 5977.2 | 5977.2 | 5977.2 | 5977.2 | 5977.2 |
| 2.5° | 6135.7 | 6127.5 | 6130.5 | 6124.5 | 6110.2 | 6095.9 | 6074.9 | 6078.6 | 6049.3 | 6005.7 | 5951.6 |
| 5° | 6020.0 | 6017.0 | 6039.5 | 6052.3 | 6062.8 | 6054.6 | 6048.6 | 6056.1 | 6013.2 | 5953.1 | 5859.2 |
| 7.5° | 5777.3 | 5744.2 | 5772.8 | 5815.6 | 5856.2 | 5887.0 | 5927.6 | 5932.8 | 5905.8 | 5842.7 | 5719.4 |
| 10° | 5432.4 | 5400.8 | 5442.9 | 5509.8 | 5590.9 | 5664.6 | 5746.5 | 5761.5 | 5766.8 | 5709.6 | 5560.1 |
| 12.5° | 5074.7 | 5050.6 | 5092.7 | 5186.6 | 5321.1 | 5434.6 | 5565.4 | 5587.9 | 5634.5 | 5596.2 | 5412.8 |
| 15° | 4754.5 | 4745.5 | 4796.6 | 4889.0 | 5043.8 | 5217.4 | 5406.0 | 5447.4 | 5526.3 | 5513.5 | 5297.8 |
| 17.5° | 4478.0 | 4475.7 | 4514.8 | 4611.7 | 4783.1 | 5002.5 | 5247.5 | 5317.4 | 5434.6 | 5449.6 | 5203.2 |
| 20° | 4272.1 | 4267.6 | 4294.6 | 4366.0 | 4542.6 | 4791.3 | 5076.2 | 5172.3 | 5341.4 | 5394.0 | 5105.5 |
| 22.5° | 4161.6 | 4160.9 | 4161.6 | 4195.4 | 4339.7 | 4571.2 | 4909.3 | 5026.6 | 5250.5 | 5349.7 | 4997.3 |
| 25° | 4142.8 | 4140.6 | 4124.0 | 4120.3 | 4202.2 | 4387.1 | 4744.0 | 4873.3 | 5164.1 | 5318.9 | 4894.3 |
| 27.5° | 4191.7 | 4194.7 | 4172.9 | 4137.6 | 4154.1 | 4266.1 | 4600.5 | 4738.7 | 5094.9 | 5312.9 | 4822.9 |
| 30° | 4293.1 | 4291.6 | 4272.8 | 4236.0 | 4203.7 | 4221.0 | 4498.3 | 4636.5 | 5048.4 | 5339.2 | 4774.1 |
| 32.5° | 4405.1 | 4413.4 | 4409.6 | 4389.3 | 4341.2 | 4272.1 | 4467.5 | 4602.7 | 5034.8 | 5402.3 | 4753.0 |
| 35° | 4539.6 | 4548.6 | 4575.7 | 4591.5 | 4535.1 | 4423.9 | 4533.6 | 4650.8 | 5073.9 | 5521.0 | 4786.8 |
| 37.5° | 4667.4 | 4690.7 | 4766.6 | 4833.4 | 4785.3 | 4661.3 | 4709.4 | 4792.9 | 5194.9 | 5708.1 | 4877.8 |
| 40° | 4814.6 | 4834.9 | 4958.9 | 5101.0 | 5093.4 | 4964.9 | 4992.7 | 5048.4 | 5408.3 | 5976.4 | 5042.3 |
| 42.5° | 4959.7 | 5000.3 | 5179.9 | 5381.3 | 5439.1 | 5325.6 | 5370.0 | 5399.3 | 5708.9 | 6331.9 | 5329.4 |
| 45° | 5152.8 | 5196.4 | 5445.9 | 5688.6 | 5823.9 | 5760.0 | 5830.6 | 5841.9 | 6086.9 | 6815.8 | 5746.5 |
| 47.5° | 5445.1 | 5494.7 | 5785.5 | 6040.3 | 6246.9 | 6253.7 | 6370.2 | 6365.7 | 6558.8 | 7369.6 | 6271.7 |
| 50° | 5900.5 | 5971.9 | 6210.1 | 6448.3 | 6699.3 | 6839.1 | 6994.6 | 6972.9 | 7124.7 | 7959.5 | 6876.7 |
| 52.5° | 6497.2 | 6530.2 | 6706.8 | 6882.7 | 7194.5 | 7507.9 | 7731.1 | 7711.5 | 7766.4 | 8566.0 | 7563.5 |
| 55° | 7115.6 | 7140.4 | 7213.3 | 7309.5 | 7728.8 | 8239.8 | 8711.7 | 8680.9 | 8541.9 | 9195.7 | 8242.1 |
| 57.5° | 7671.7 | 7722.1 | 7772.4 | 7812.2 | 8266.9 | 9004.8 | 9715.0 | 9717.2 | 9383.6 | 9875.0 | 8943.2 |
| 60° | 7758.1 | 7802.5 | 8135.4 | 8449.5 | 9187.4 | 10025.3 | 10788.8 | 10766.3 | 10254.5 | 10612.2 | 9724.7 |
| 62.5° | 6857.9 | 6957.8 | 7513.9 | 8349.5 | 10074.2 | 11892.0 | 12158.7 | 12130.9 | 11296.0 | 11520.7 | 10634.8 |
| 65° | 4914.6 | 5028.1 | 5699.1 | 6954.8 | 9644.3 | 13948.7 | 14631.0 | 14256.8 | 12716.3 | 12638.2 | 11700.3 |
| 67.5° | 2835.3 | 2862.3 | 3153.2 | 4161.6 | 7343.3 | 14056.2 | 18402.7 | 17878.9 | 14921.9 | 13905.9 | 12221.8 |
| 70° | 2096.6 | 2095.8 | 2165.0 | 2561.0 | 3973.8 | 11471.9 | 20196.4 | 20666.1 | 17243.9 | 14322.9 | 11484.7 |
| 71° | 1895.9 | 1898.2 | 1975.6 | 2331.0 | 3147.1 | 9602.2 | 19815.4 | 20843.4 | 17855.6 | 14117.0 | 10951.1 |
| 72.5° | 1621.7 | 1629.2 | 1736.6 | 2090.6 | 2647.4 | 6621.9 | 18174.2 | 19779.3 | 18145.7 | 13609.1 | 10116.2 |
| 75° | 1230.2 | 1247.4 | 1396.2 | 1762.2 | 2419.7 | 3358.3 | 13338.5 | 15794.3 | 16119.7 | 12008.4 | 7516.9 |
| 77.5° | 877.7 | 897.3 | 1065.6 | 1481.9 | 2300.2 | 2530.9 | 8932.7 | 11520.7 | 11862.6 | 7695.8 | 3390.6 |
| 80° | 554.6 | 577.9 | 704.9 | 1179.1 | 2161.2 | 2403.2 | 5613.5 | 7743.9 | 6468.6 | 2462.6 | 862.7 |
| 82.5° | 325.4 | 343.4 | 437.4 | 770.3 | 1765.2 | 2314.5 | 3302.7 | 4292.4 | 2517.4 | 744.0 | 392.3 |
| 85° | 188.6 | 196.9 | 272.8 | 490.7 | 1282.0 | 2184.5 | 2426.5 | 2399.4 | 1092.6 | 363.7 | 185.6 |
| 87.5° | 87.9 | 97.7 | 161.6 | 256.3 | 711.6 | 1583.3 | 1917.7 | 1657.0 | 679.3 | 170.6 | 87.2 |
| 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: GAN-SA3D-730-U-SL3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5977.2 | 5977.2 | 5977.2 | 5977.2 | 5977.2 | 5977.2 | 5977.2 | 5977.2 | 5977.2 | 5977.2 | 5977.2 |
| 2.5° | 5925.3 | 5912.5 | 5859.2 | 5811.8 | 5762.2 | 5697.6 | 5626.2 | 5617.2 | 5573.6 | 5581.9 | 5566.9 |
| 5° | 5808.1 | 5775.8 | 5647.3 | 5530.8 | 5393.3 | 5270.0 | 5136.3 | 5074.7 | 4986.0 | 4980.0 | 4957.4 |
| 7.5° | 5640.5 | 5580.4 | 5381.3 | 5160.3 | 4939.4 | 4729.0 | 4520.8 | 4384.1 | 4244.3 | 4184.9 | 4179.7 |
| 10° | 5451.9 | 5349.7 | 5056.6 | 4729.7 | 4411.1 | 4103.8 | 3806.2 | 3586.0 | 3387.6 | 3293.7 | 3289.9 |
| 12.5° | 5273.0 | 5122.0 | 4720.0 | 4275.1 | 3839.2 | 3441.0 | 3032.9 | 2743.6 | 2494.9 | 2411.5 | 2376.1 |
| 15° | 5121.2 | 4908.6 | 4392.3 | 3823.5 | 3294.4 | 2741.3 | 2276.9 | 1972.6 | 1742.7 | 1663.0 | 1648.0 |
| 17.5° | 4974.0 | 4700.4 | 4056.4 | 3367.3 | 2727.8 | 2119.9 | 1654.7 | 1428.5 | 1306.0 | 1273.7 | 1273.0 |
| 20° | 4827.4 | 4486.3 | 3705.5 | 2900.7 | 2180.0 | 1585.6 | 1272.2 | 1170.8 | 1129.5 | 1125.7 | 1119.7 |
| 22.5° | 4661.3 | 4259.3 | 3336.5 | 2432.5 | 1701.3 | 1246.7 | 1081.4 | 1040.8 | 1035.5 | 1049.0 | 1049.0 |
| 25° | 4505.8 | 4033.9 | 2962.3 | 1974.1 | 1323.3 | 1040.0 | 965.6 | 957.4 | 971.6 | 995.7 | 997.9 |
| 27.5° | 4360.8 | 3816.7 | 2597.1 | 1566.8 | 1060.3 | 916.0 | 885.2 | 895.0 | 920.5 | 948.4 | 949.1 |
| 30° | 4241.3 | 3611.5 | 2242.4 | 1234.7 | 895.7 | 823.6 | 818.3 | 837.9 | 865.7 | 887.5 | 892.7 |
| 32.5° | 4148.8 | 3436.5 | 1899.7 | 992.7 | 788.3 | 754.5 | 759.0 | 775.5 | 792.8 | 804.8 | 813.1 |
| 35° | 4106.0 | 3286.2 | 1583.3 | 837.1 | 719.9 | 701.1 | 707.1 | 716.1 | 723.7 | 732.7 | 739.4 |
| 37.5° | 4113.5 | 3169.7 | 1300.8 | 740.2 | 674.1 | 664.3 | 664.3 | 664.3 | 664.3 | 668.8 | 669.6 |
| 40° | 4183.4 | 3102.8 | 1070.8 | 678.6 | 643.3 | 632.7 | 624.5 | 617.0 | 610.9 | 613.9 | 612.4 |
| 42.5° | 4362.3 | 3096.8 | 902.5 | 639.5 | 618.5 | 601.2 | 584.6 | 574.1 | 566.6 | 569.6 | 571.1 |
| 45° | 4665.9 | 3171.9 | 789.0 | 611.7 | 595.2 | 568.9 | 547.8 | 536.5 | 531.3 | 541.1 | 542.6 |
| 47.5° | 5058.9 | 3335.8 | 719.9 | 591.4 | 573.4 | 538.8 | 516.3 | 505.7 | 507.2 | 521.5 | 525.3 |
| 50° | 5565.4 | 3601.8 | 686.8 | 578.6 | 558.3 | 513.3 | 490.0 | 480.9 | 485.4 | 505.7 | 510.2 |
| 52.5° | 6121.4 | 3985.0 | 690.6 | 574.9 | 548.6 | 494.5 | 469.7 | 459.1 | 466.7 | 485.4 | 489.2 |
| 55° | 6763.2 | 4445.7 | 753.0 | 580.1 | 534.3 | 482.4 | 453.1 | 435.1 | 441.1 | 458.4 | 461.4 |
| 57.5° | 7476.3 | 4973.2 | 878.5 | 578.6 | 516.3 | 471.2 | 435.9 | 408.8 | 413.3 | 423.8 | 426.8 |
| 60° | 8218.8 | 5610.4 | 1073.1 | 583.1 | 508.0 | 457.6 | 412.6 | 378.7 | 377.2 | 386.3 | 387.8 |
| 62.5° | 9110.0 | 6347.6 | 1295.5 | 586.1 | 513.3 | 440.4 | 381.7 | 348.7 | 344.2 | 346.4 | 347.9 |
| 65° | 10028.3 | 6881.2 | 1212.1 | 574.1 | 529.8 | 426.1 | 354.7 | 319.4 | 311.1 | 309.6 | 310.4 |
| 67.5° | 10056.9 | 6309.3 | 849.9 | 550.1 | 536.5 | 418.6 | 334.4 | 294.6 | 281.0 | 275.8 | 275.0 |
| 70° | 9019.1 | 5125.8 | 662.0 | 524.5 | 509.5 | 406.5 | 315.6 | 274.3 | 254.0 | 245.7 | 245.0 |
| 71° | 8512.6 | 4718.5 | 627.5 | 511.7 | 489.2 | 394.5 | 307.3 | 265.3 | 244.2 | 235.2 | 233.7 |
| 72.5° | 7718.3 | 4230.0 | 585.4 | 491.5 | 450.1 | 363.7 | 291.6 | 252.5 | 230.7 | 220.2 | 217.9 |
| 75° | 5539.1 | 2766.1 | 502.7 | 438.1 | 372.7 | 290.1 | 255.5 | 226.9 | 208.2 | 195.4 | 193.9 |
| 77.5° | 2134.2 | 1100.9 | 380.2 | 364.5 | 285.6 | 226.9 | 210.4 | 196.1 | 182.6 | 169.8 | 169.1 |
| 80° | 659.8 | 492.2 | 277.3 | 274.3 | 206.7 | 169.1 | 163.8 | 160.1 | 154.8 | 141.3 | 138.3 |
| 82.5° | 352.4 | 282.6 | 190.9 | 177.3 | 135.3 | 112.7 | 118.7 | 120.2 | 121.0 | 106.7 | 105.2 |
| 85° | 168.3 | 149.5 | 107.5 | 100.7 | 78.9 | 63.1 | 72.9 | 78.9 | 79.7 | 65.4 | 60.9 |
| 87.5° | 80.4 | 78.2 | 50.3 | 38.3 | 29.3 | 21.0 | 25.5 | 31.6 | 34.6 | 24.8 | 21.8 |
| 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)