

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: P317474

Luminaire Tested: **GAN-SA0A-750-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-750-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48054 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

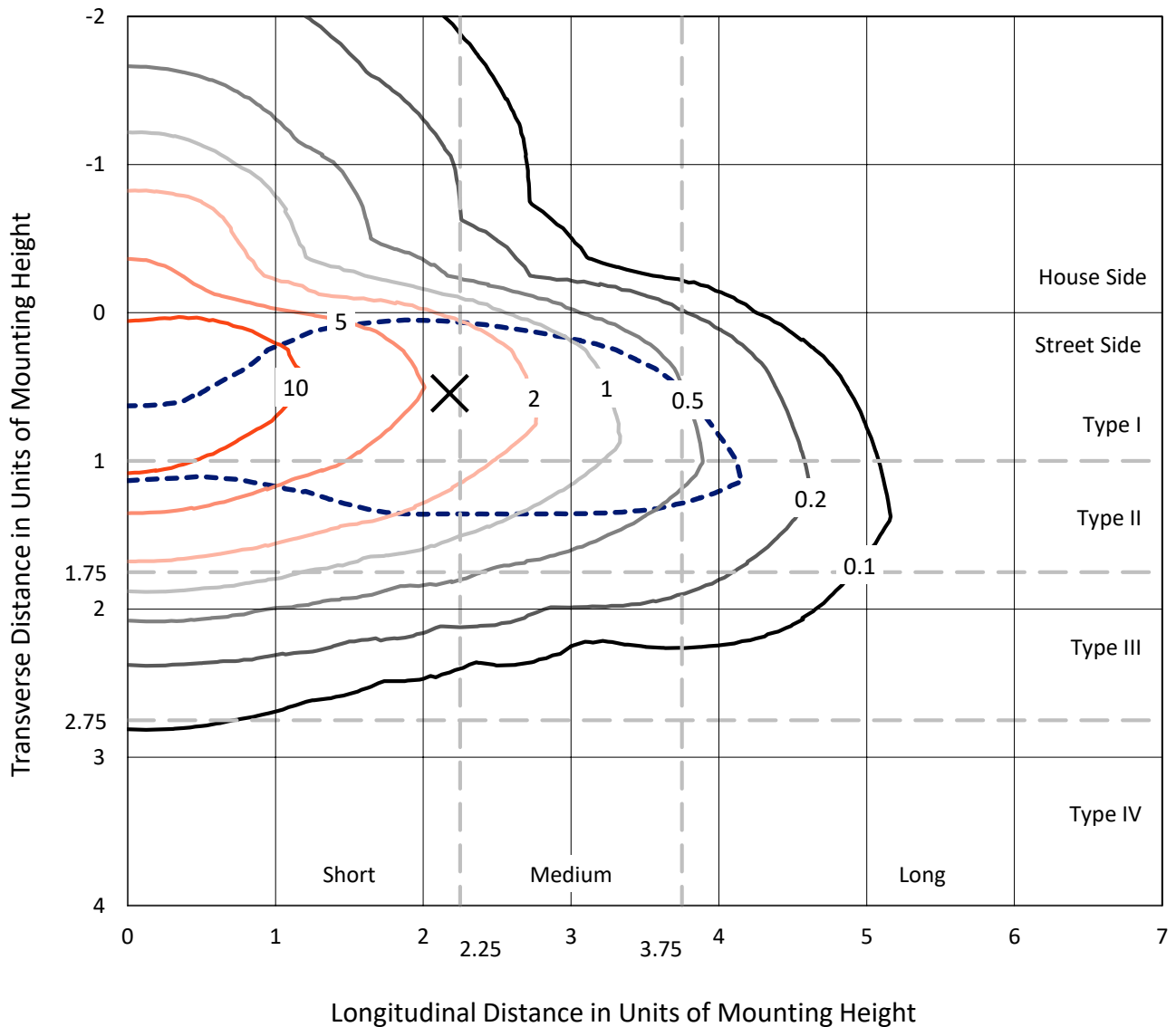
Input Watts (W): 323
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

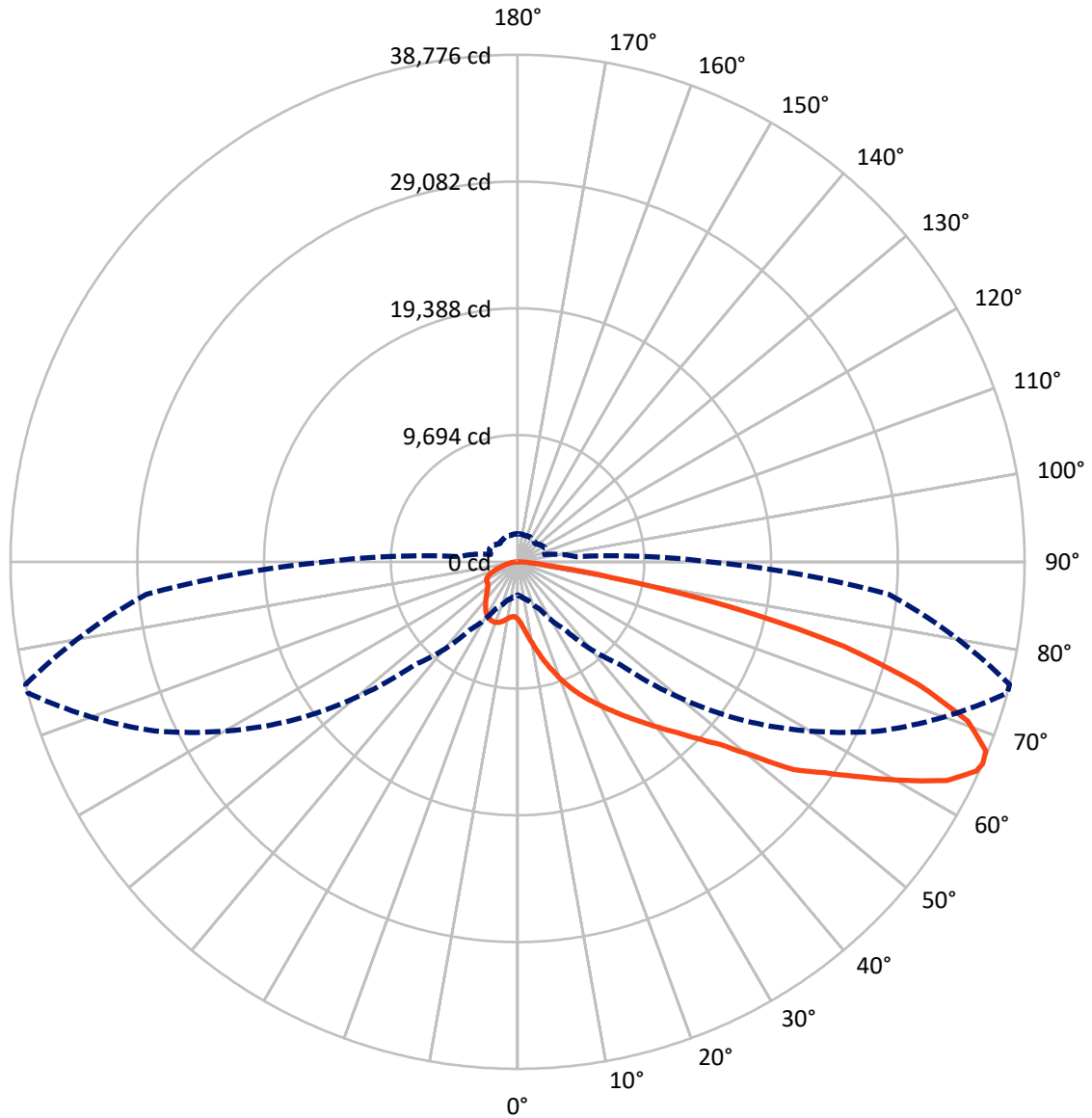
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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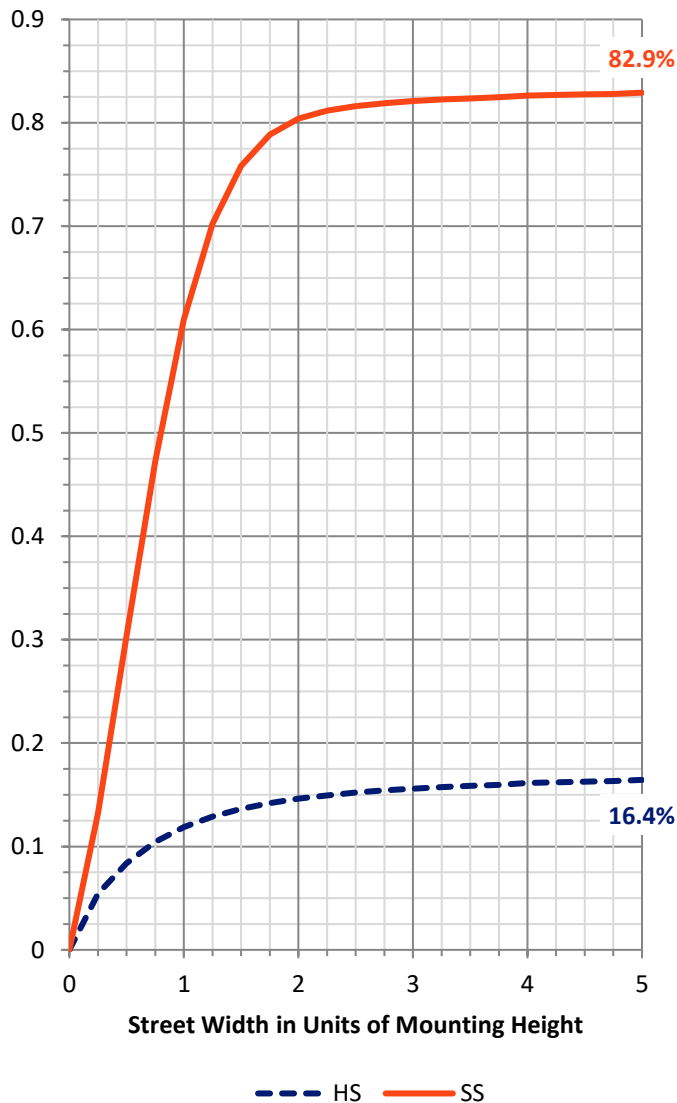
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8085.8 | 0.0 | 8085.8 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 39968.2 | 0.0 | 39968.2 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 48054.0 | 0.0 | 48054.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 530.7 | 1.1 |
| 10°-20° | 2095.6 | 4.4 |
| 20°-30° | 4072.3 | 8.5 |
| 30°-40° | 6646.9 | 13.8 |
| 40°-50° | 9081.2 | 18.9 |
| 50°-60° | 10577.8 | 22.0 |
| 60°-70° | 9483.2 | 19.7 |
| 70°-80° | 4792.4 | 10.0 |
| 80°-90° | 773.9 | 1.6 |
| 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° | 48054.0 | 100.0 |
| 0°-180° | 48054.0 | 100.0 |

Coefficient of Utilization

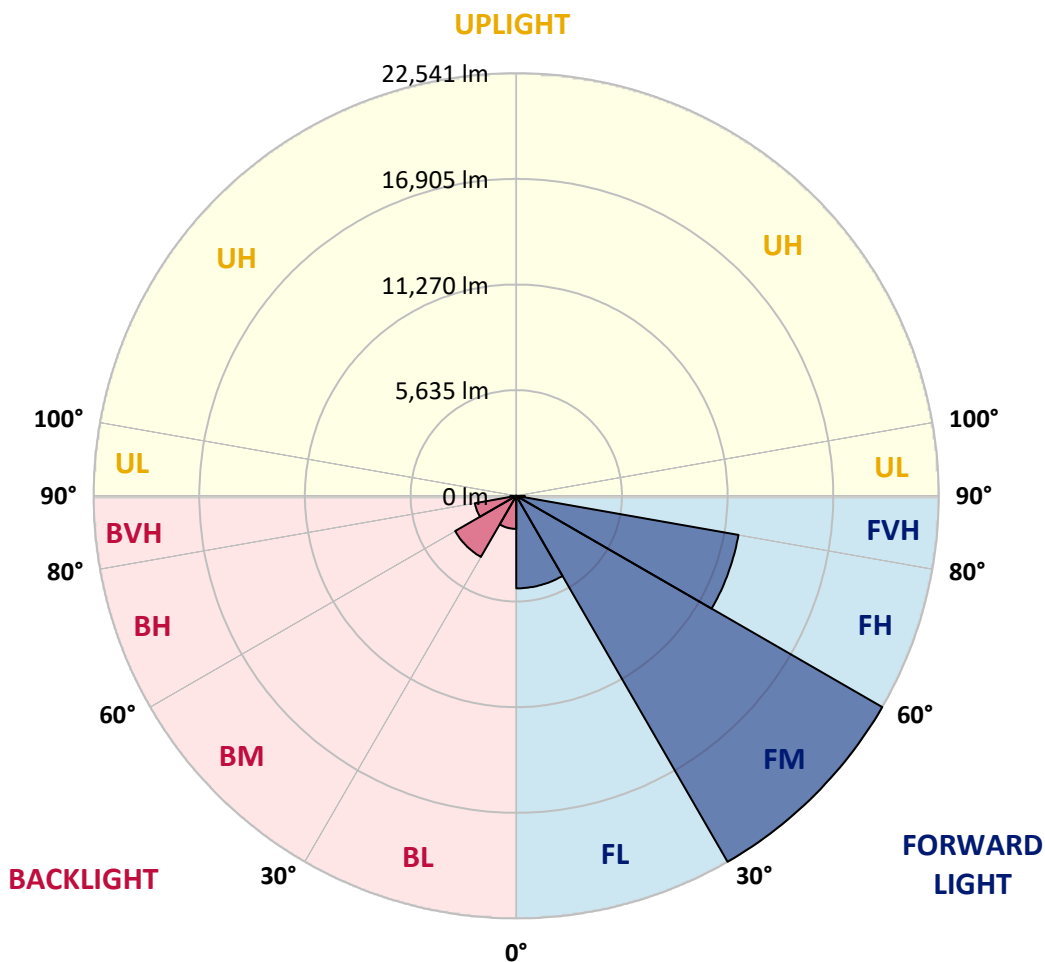


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4935.0 | 10.3 | | | |
| FM (30°-60°) | 22540.7 | 46.9 | | | |
| FH (60°-80°) | 12035.5 | 25.0 | | | G5 |
| FVH (80°-90°) | 457.0 | 1.0 | | | G3/500 |
| BL (0°-30°) | 1763.6 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 3765.3 | 7.8 | B3/5000 | | |
| BH (60°-80°) | 2240.2 | 4.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 316.9 | 0.7 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type II Short





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CATALOG NUMBER: GAN-SAOA-750-U-T2R

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4388.4 | 4388.4 | 4388.4 | 4388.4 | 4388.4 | 4388.4 | 4388.4 | 4388.4 | 4388.4 | 4388.4 | 4388.4 |
| 2.5° | 5825.7 | 5737.6 | 5729.4 | 5600.5 | 5571.2 | 5324.8 | 5143.7 | 4954.5 | 4739.2 | 4696.7 | 4527.1 |
| 5° | 7483.1 | 7475.0 | 7362.4 | 7152.0 | 6987.2 | 6566.3 | 6150.3 | 5709.8 | 5226.9 | 5148.6 | 4766.9 |
| 7.5° | 8974.2 | 8961.2 | 8874.7 | 8647.9 | 8409.8 | 7892.6 | 7298.8 | 6623.4 | 5840.3 | 5724.5 | 5091.5 |
| 10° | 10106.4 | 10101.5 | 10072.1 | 9905.7 | 9703.5 | 9207.5 | 8551.7 | 7630.0 | 6553.3 | 6395.0 | 5497.8 |
| 12.5° | 10980.8 | 10990.6 | 11010.2 | 10951.5 | 10855.2 | 10432.7 | 9760.6 | 8696.9 | 7313.5 | 7156.9 | 5949.6 |
| 15° | 11573.0 | 11602.4 | 11703.5 | 11786.7 | 11837.3 | 11577.9 | 10927.0 | 9788.3 | 8165.1 | 7977.5 | 6450.5 |
| 17.5° | 11871.6 | 11904.2 | 12078.7 | 12330.0 | 12561.6 | 12535.5 | 12018.4 | 10829.1 | 8982.4 | 8801.3 | 6988.8 |
| 20° | 12129.3 | 12153.8 | 12349.6 | 12651.4 | 13060.8 | 13241.9 | 12951.5 | 11830.8 | 9878.0 | 9662.7 | 7559.8 |
| 22.5° | 12876.5 | 12907.5 | 12966.2 | 13137.5 | 13499.7 | 13832.5 | 13692.2 | 12778.6 | 10698.6 | 10497.9 | 8101.4 |
| 25° | 14318.6 | 14356.1 | 14228.9 | 14083.7 | 14152.2 | 14383.9 | 14410.0 | 13643.2 | 11530.6 | 11303.8 | 8683.8 |
| 27.5° | 16056.0 | 16109.9 | 15892.9 | 15519.3 | 15193.0 | 15103.3 | 15072.3 | 14351.3 | 12325.1 | 12062.4 | 9259.7 |
| 30° | 17757.6 | 17850.6 | 17568.3 | 17083.8 | 16485.1 | 16064.2 | 15752.6 | 15044.6 | 13108.1 | 12856.9 | 9803.0 |
| 32.5° | 19420.0 | 19382.4 | 18973.0 | 18499.9 | 17798.4 | 17271.4 | 16517.7 | 15788.5 | 13989.1 | 13700.3 | 10343.0 |
| 35° | 20558.7 | 20571.7 | 20191.6 | 19630.4 | 18961.5 | 18557.0 | 17542.2 | 16591.1 | 14888.0 | 14622.1 | 10956.4 |
| 37.5° | 21527.7 | 21467.3 | 21036.7 | 20513.0 | 19937.1 | 19764.2 | 18741.3 | 17475.3 | 15861.9 | 15571.5 | 11608.9 |
| 40° | 21850.7 | 21780.6 | 21498.3 | 21121.5 | 20659.8 | 20645.1 | 20064.4 | 18477.0 | 16963.1 | 16676.0 | 12344.7 |
| 42.5° | 21654.9 | 21565.2 | 21449.4 | 21346.6 | 21204.7 | 21269.9 | 21307.5 | 19651.6 | 18173.6 | 17852.2 | 13196.2 |
| 45° | 20932.2 | 20796.8 | 20878.4 | 21101.9 | 21410.2 | 21778.9 | 22429.9 | 20951.8 | 19529.3 | 19260.1 | 14196.3 |
| 47.5° | 19821.3 | 19698.9 | 19953.4 | 20431.4 | 21269.9 | 22203.1 | 23491.9 | 22387.4 | 21147.6 | 20880.0 | 15620.5 |
| 50° | 18258.4 | 18294.3 | 18658.1 | 19527.6 | 20795.2 | 22398.9 | 24800.2 | 24288.0 | 23500.0 | 23250.4 | 17563.4 |
| 52.5° | 15693.9 | 15700.4 | 16724.9 | 18152.4 | 19953.4 | 22297.7 | 25526.2 | 26717.1 | 26712.2 | 26410.4 | 19413.4 |
| 55° | 13312.1 | 13457.3 | 14268.1 | 16165.4 | 18589.6 | 21893.1 | 26033.6 | 27898.2 | 28821.6 | 28467.6 | 21137.8 |
| 57.5° | 10985.7 | 11070.5 | 11838.9 | 13744.4 | 16643.3 | 20814.8 | 26554.0 | 29315.9 | 31252.4 | 31028.9 | 23281.4 |
| 60° | 8339.6 | 8470.1 | 9264.6 | 11024.9 | 14153.9 | 18901.2 | 26602.9 | 30795.6 | 34157.8 | 33932.7 | 25674.7 |
| 62.5° | 5412.9 | 5638.1 | 6382.0 | 8031.3 | 11142.3 | 16149.0 | 25467.5 | 31763.0 | 36911.6 | 36831.7 | 27798.7 |
| 65° | 3111.0 | 3280.7 | 3797.9 | 5070.3 | 7687.1 | 12693.8 | 22767.5 | 31391.0 | 38606.6 | 38560.9 | 28593.2 |
| 66° | 2541.7 | 2647.7 | 3044.2 | 3962.6 | 6342.8 | 11147.2 | 21198.2 | 30606.3 | 38774.7 | 38776.3 | 28501.9 |
| 67.5° | 2032.7 | 2080.0 | 2257.8 | 2837.0 | 4680.4 | 8835.6 | 18393.8 | 28875.4 | 38565.8 | 38622.9 | 27912.9 |
| 70° | 1682.0 | 1706.4 | 1761.9 | 1902.2 | 2554.7 | 5328.1 | 13055.9 | 24377.7 | 36469.5 | 36513.6 | 25614.3 |
| 72.5° | 1509.0 | 1523.7 | 1544.9 | 1564.5 | 1802.7 | 2977.3 | 7974.2 | 19501.5 | 31975.1 | 32032.2 | 22111.7 |
| 75° | 1367.1 | 1375.3 | 1372.0 | 1373.6 | 1512.3 | 1897.3 | 4120.9 | 14560.1 | 25854.1 | 25739.9 | 16938.6 |
| 77.5° | 1200.7 | 1208.9 | 1192.5 | 1195.8 | 1337.7 | 1458.5 | 2050.6 | 10192.9 | 17447.6 | 16641.7 | 9543.6 |
| 80° | 1014.7 | 1021.2 | 1014.7 | 1026.1 | 1164.8 | 1101.2 | 1192.5 | 5734.3 | 7714.8 | 7297.2 | 3393.3 |
| 82.5° | 766.7 | 794.5 | 814.1 | 859.7 | 959.3 | 783.1 | 797.7 | 2233.4 | 2349.2 | 2236.6 | 1040.8 |
| 85° | 336.1 | 409.5 | 613.4 | 657.4 | 721.1 | 469.8 | 523.7 | 910.3 | 956.0 | 926.6 | 378.5 |
| 87.5° | 88.1 | 96.3 | 303.4 | 381.7 | 399.7 | 212.1 | 272.4 | 414.4 | 437.2 | 414.4 | 125.6 |
| 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-SAOA-750-U-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4388.4 | 4388.4 | 4388.4 | 4388.4 | 4388.4 | 4388.4 | 4388.4 | 4388.4 | 4388.4 | 4388.4 | 4388.4 |
| 2.5° | 4437.4 | 4357.4 | 4213.9 | 4086.6 | 3990.4 | 3925.1 | 3859.8 | 3827.2 | 3807.6 | 3788.1 | 3791.3 |
| 5° | 4579.3 | 4417.8 | 4171.4 | 3996.9 | 3899.0 | 3837.0 | 3804.4 | 3791.3 | 3783.2 | 3763.6 | 3763.6 |
| 7.5° | 4793.0 | 4564.6 | 4225.3 | 4045.8 | 3969.1 | 3921.8 | 3902.3 | 3895.7 | 3885.9 | 3863.1 | 3866.4 |
| 10° | 5062.2 | 4742.4 | 4337.8 | 4163.3 | 4093.1 | 4040.9 | 4013.2 | 4003.4 | 3985.5 | 3959.4 | 3962.6 |
| 12.5° | 5378.7 | 4962.7 | 4486.3 | 4303.6 | 4218.8 | 4148.6 | 4102.9 | 4075.2 | 4044.2 | 4009.9 | 4011.6 |
| 15° | 5724.5 | 5202.5 | 4646.2 | 4429.2 | 4313.4 | 4215.5 | 4142.1 | 4094.8 | 4045.8 | 4003.4 | 4001.8 |
| 17.5° | 6075.3 | 5434.1 | 4768.5 | 4497.7 | 4341.1 | 4212.2 | 4112.7 | 4039.3 | 3978.9 | 3926.7 | 3921.8 |
| 20° | 6453.7 | 5642.9 | 4837.0 | 4491.2 | 4288.9 | 4135.6 | 4003.4 | 3912.1 | 3845.2 | 3793.0 | 3784.8 |
| 22.5° | 6838.7 | 5838.7 | 4848.5 | 4424.3 | 4173.1 | 3985.5 | 3846.8 | 3745.7 | 3677.1 | 3623.3 | 3603.7 |
| 25° | 7191.1 | 5990.4 | 4801.2 | 4295.4 | 4011.6 | 3809.3 | 3673.9 | 3571.1 | 3515.6 | 3452.0 | 3432.4 |
| 27.5° | 7512.5 | 6096.5 | 4706.5 | 4130.7 | 3830.5 | 3631.5 | 3504.2 | 3416.1 | 3355.8 | 3306.8 | 3290.5 |
| 30° | 7801.3 | 6153.6 | 4551.6 | 3934.9 | 3644.5 | 3463.4 | 3355.8 | 3295.4 | 3243.2 | 3181.2 | 3169.8 |
| 32.5° | 8075.3 | 6153.6 | 4352.5 | 3721.2 | 3460.2 | 3315.0 | 3251.3 | 3213.8 | 3155.1 | 3094.7 | 3078.4 |
| 35° | 8349.4 | 6116.0 | 4117.6 | 3497.7 | 3290.5 | 3208.9 | 3205.7 | 3161.6 | 3071.9 | 2990.3 | 2969.1 |
| 37.5° | 8638.2 | 6039.4 | 3853.3 | 3288.9 | 3151.8 | 3161.6 | 3189.3 | 3091.5 | 2964.2 | 2848.4 | 2817.4 |
| 40° | 8964.4 | 5933.3 | 3579.2 | 3107.8 | 3036.0 | 3140.4 | 3145.3 | 2990.3 | 2742.4 | 2636.3 | 2608.6 |
| 42.5° | 9347.8 | 5827.3 | 3324.8 | 2947.9 | 2944.6 | 3076.8 | 3062.1 | 2771.7 | 2623.3 | 2569.4 | 2554.7 |
| 45° | 9851.9 | 5766.9 | 3083.3 | 2796.2 | 2872.9 | 2974.0 | 2920.2 | 2651.0 | 2589.0 | 2558.0 | 2545.0 |
| 47.5° | 10646.4 | 5797.9 | 2861.4 | 2675.5 | 2801.1 | 2871.2 | 2655.9 | 2602.1 | 2558.0 | 2520.5 | 2507.4 |
| 50° | 11641.5 | 5780.0 | 2682.0 | 2592.3 | 2719.5 | 2763.6 | 2536.8 | 2538.4 | 2515.6 | 2473.2 | 2453.6 |
| 52.5° | 12390.3 | 5639.7 | 2566.2 | 2545.0 | 2647.7 | 2572.7 | 2461.8 | 2476.4 | 2465.0 | 2403.0 | 2381.8 |
| 55° | 13113.0 | 5519.0 | 2507.4 | 2527.0 | 2595.5 | 2334.5 | 2373.7 | 2409.5 | 2398.1 | 2337.8 | 2328.0 |
| 57.5° | 14011.9 | 5496.1 | 2471.5 | 2531.9 | 2551.5 | 2215.4 | 2288.8 | 2336.1 | 2328.0 | 2301.9 | 2297.0 |
| 60° | 15113.1 | 5502.6 | 2438.9 | 2540.1 | 2502.5 | 2127.3 | 2208.9 | 2269.3 | 2274.1 | 2269.3 | 2266.0 |
| 62.5° | 15718.4 | 5324.8 | 2357.3 | 2517.2 | 2416.1 | 2050.6 | 2125.7 | 2213.8 | 2215.4 | 2225.2 | 2223.6 |
| 65° | 15204.5 | 4793.0 | 2205.6 | 2437.3 | 2270.9 | 1987.0 | 2053.9 | 2150.2 | 2125.7 | 2169.7 | 2169.7 |
| 66° | 14705.3 | 4486.3 | 2130.6 | 2385.1 | 2208.9 | 1962.6 | 2031.1 | 2117.5 | 2086.5 | 2146.9 | 2146.9 |
| 67.5° | 13685.7 | 3969.1 | 1995.2 | 2274.1 | 2120.8 | 1928.3 | 2005.0 | 2063.7 | 2021.3 | 2111.0 | 2104.5 |
| 70° | 11822.6 | 3070.3 | 1722.7 | 2022.9 | 1975.6 | 1877.7 | 1969.1 | 1956.0 | 1894.0 | 2031.1 | 2005.0 |
| 72.5° | 9967.7 | 2332.9 | 1383.4 | 1693.4 | 1755.4 | 1814.1 | 1918.5 | 1819.0 | 1740.7 | 1836.9 | 1779.8 |
| 75° | 7734.4 | 1753.7 | 1093.0 | 1316.5 | 1482.9 | 1714.6 | 1858.1 | 1660.7 | 1548.2 | 1538.4 | 1507.4 |
| 77.5° | 4181.2 | 1204.0 | 866.3 | 1004.9 | 1177.9 | 1590.6 | 1817.4 | 1491.1 | 1321.4 | 1282.3 | 1257.8 |
| 80° | 1655.9 | 783.1 | 629.7 | 761.9 | 823.8 | 1411.1 | 1719.5 | 1293.7 | 1089.8 | 1050.6 | 1013.1 |
| 82.5° | 683.5 | 463.3 | 406.2 | 510.6 | 536.7 | 1207.2 | 1543.3 | 1060.4 | 841.8 | 1164.8 | 1236.6 |
| 85° | 293.6 | 254.5 | 241.4 | 264.3 | 303.4 | 846.7 | 1228.4 | 809.2 | 908.7 | 810.8 | 644.4 |
| 87.5° | 88.1 | 107.7 | 102.8 | 101.1 | 110.9 | 202.3 | 654.2 | 450.3 | 667.2 | 252.9 | 189.2 |
| 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)