

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: P317434

Luminaire Tested: **GAN-SA0A-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317434
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-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 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: 48055 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

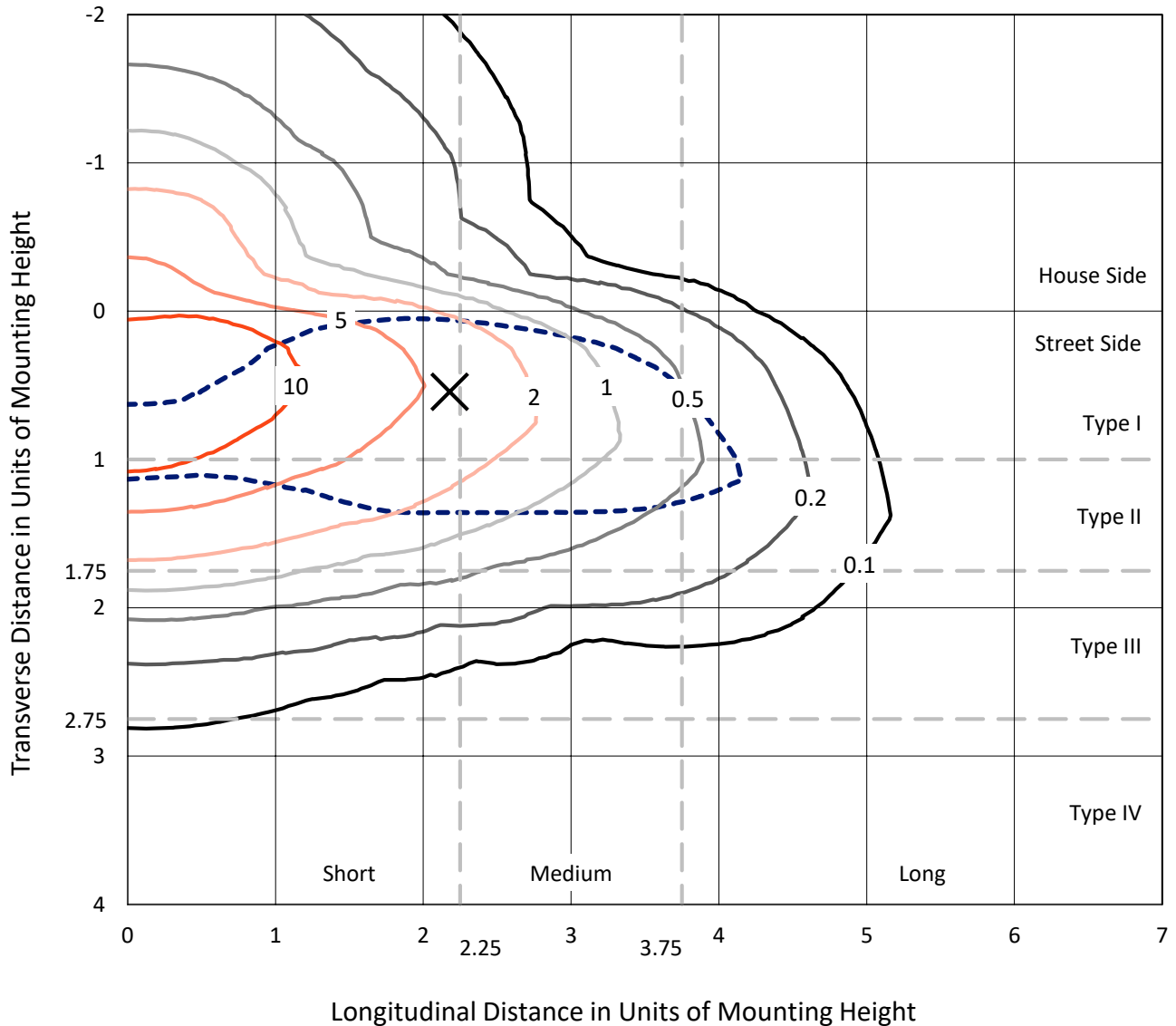
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

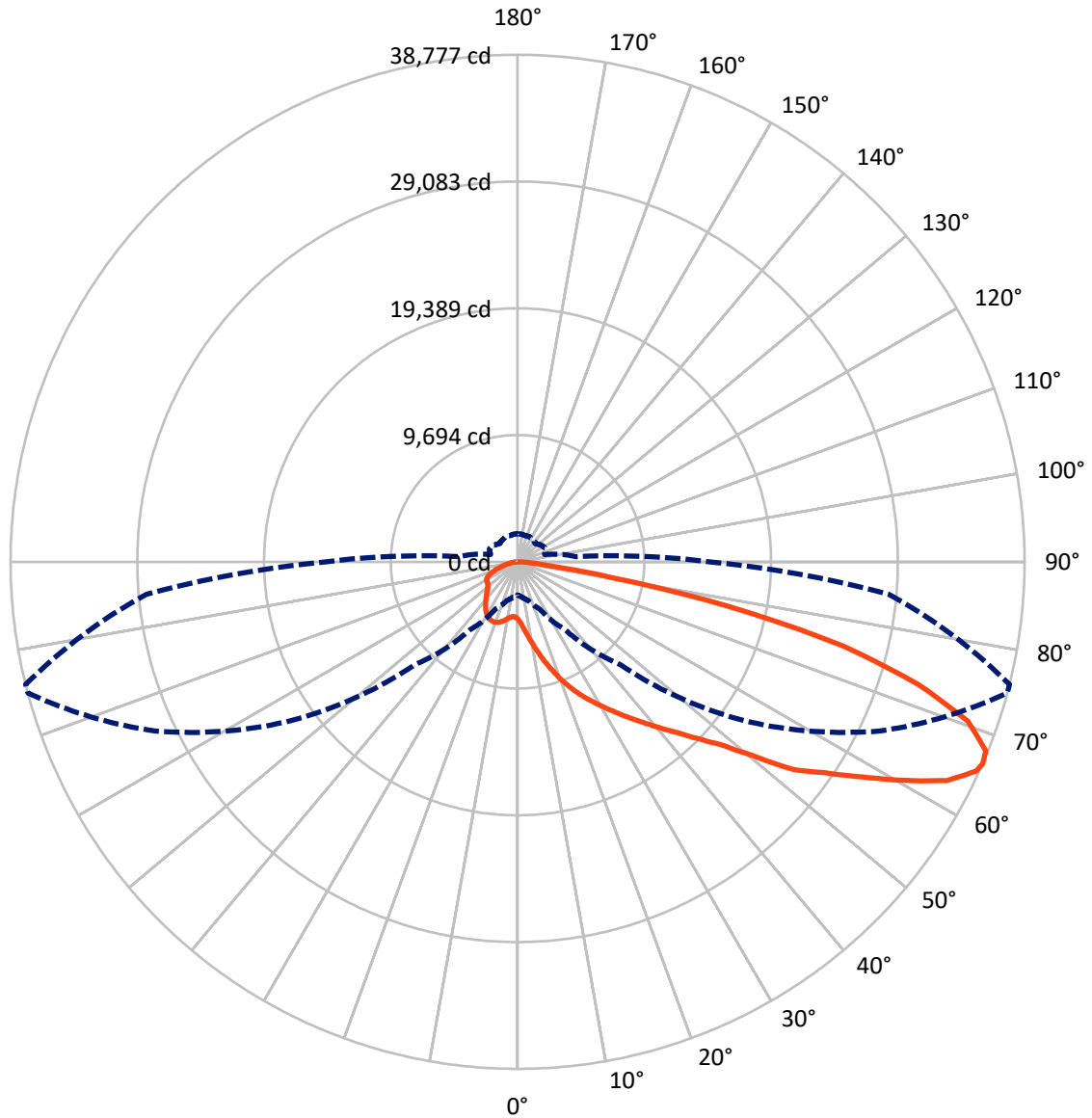
✕ Max cd
 - - - 1/2 Max cd



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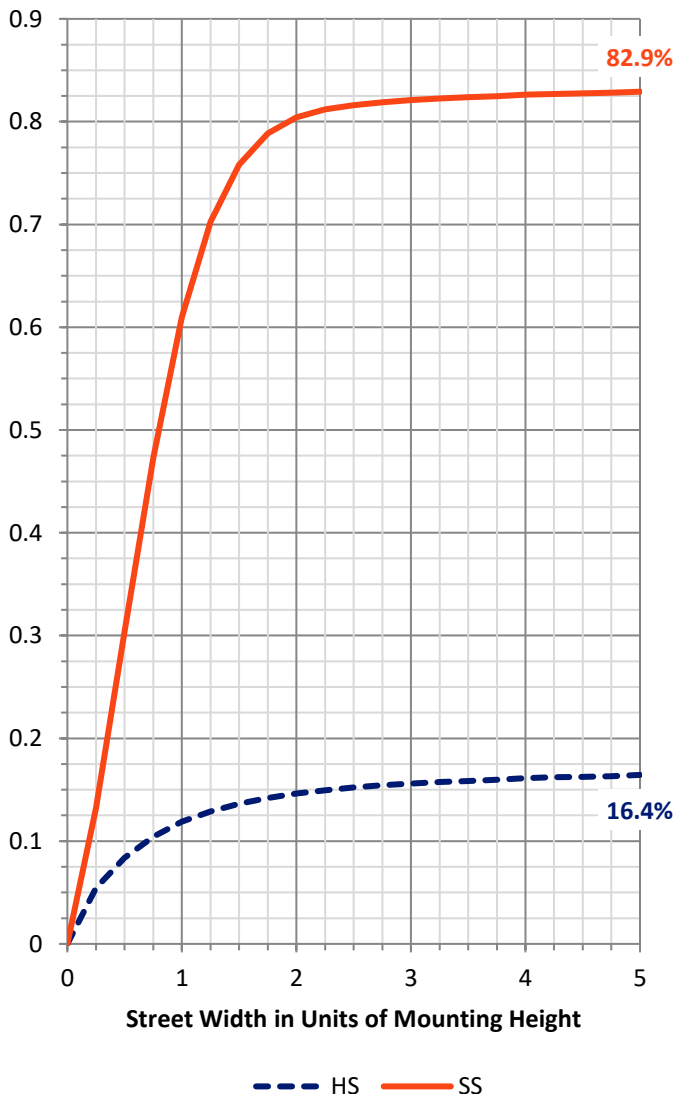
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8086.0 | 0.0 | 8086.0 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 39969.0 | 0.0 | 39969.0 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 48055.0 | 0.0 | 48055.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 530.7 | 1.1 |
| 10°-20° | 2095.7 | 4.4 |
| 20°-30° | 4072.4 | 8.5 |
| 30°-40° | 6647.0 | 13.8 |
| 40°-50° | 9081.4 | 18.9 |
| 50°-60° | 10578.0 | 22.0 |
| 60°-70° | 9483.4 | 19.7 |
| 70°-80° | 4792.5 | 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° | 48055.0 | 100.0 |
| 0°-180° | 48055.0 | 100.0 |

Coefficient of Utilization

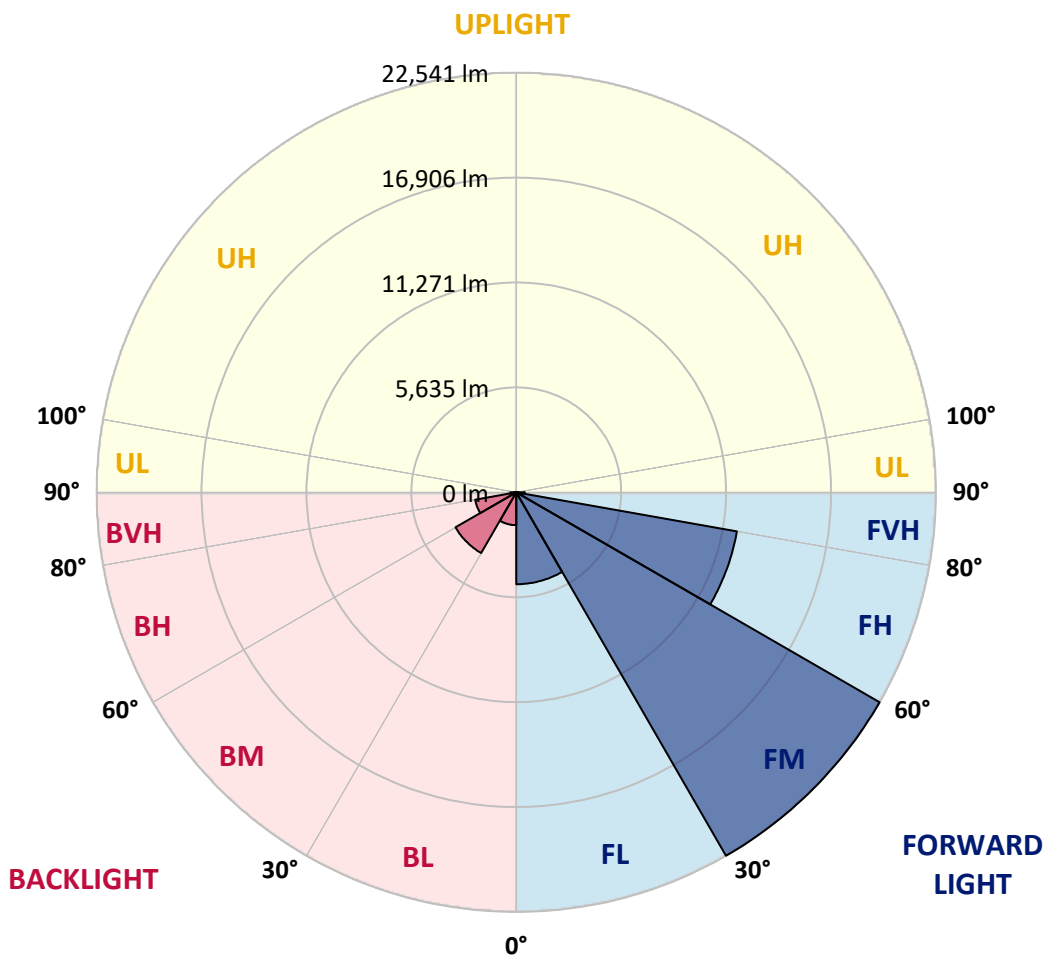


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4935.1 | 10.3 | | | |
| FM (30°-60°) | 22541.1 | 46.9 | | | |
| FH (60°-80°) | 12035.7 | 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-740-U-T2R

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4388.5 | 4388.5 | 4388.5 | 4388.5 | 4388.5 | 4388.5 | 4388.5 | 4388.5 | 4388.5 | 4388.5 | 4388.5 |
| 2.5° | 5825.8 | 5737.7 | 5729.5 | 5600.6 | 5571.3 | 5324.9 | 5143.9 | 4954.6 | 4739.3 | 4696.8 | 4527.2 |
| 5° | 7483.3 | 7475.1 | 7362.6 | 7152.1 | 6987.3 | 6566.4 | 6150.4 | 5710.0 | 5227.1 | 5148.7 | 4767.0 |
| 7.5° | 8974.4 | 8961.4 | 8874.9 | 8648.1 | 8409.9 | 7892.8 | 7298.9 | 6623.5 | 5840.5 | 5724.6 | 5091.6 |
| 10° | 10106.6 | 10101.7 | 10072.4 | 9905.9 | 9703.7 | 9207.7 | 8551.9 | 7630.1 | 6553.4 | 6395.1 | 5497.9 |
| 12.5° | 10981.1 | 10990.8 | 11010.4 | 10951.7 | 10855.4 | 10432.9 | 9760.8 | 8697.1 | 7313.6 | 7157.0 | 5949.8 |
| 15° | 11573.3 | 11602.6 | 11703.8 | 11787.0 | 11837.5 | 11578.1 | 10927.2 | 9788.5 | 8165.2 | 7977.6 | 6450.6 |
| 17.5° | 11871.8 | 11904.4 | 12079.0 | 12330.2 | 12561.9 | 12535.8 | 12018.6 | 10829.3 | 8982.6 | 8801.5 | 6989.0 |
| 20° | 12129.6 | 12154.0 | 12349.8 | 12651.6 | 13061.1 | 13242.2 | 12951.8 | 11831.0 | 9878.2 | 9662.9 | 7560.0 |
| 22.5° | 12876.8 | 12907.8 | 12966.5 | 13137.8 | 13500.0 | 13832.8 | 13692.5 | 12778.9 | 10698.8 | 10498.2 | 8101.6 |
| 25° | 14318.9 | 14356.4 | 14229.2 | 14084.0 | 14152.5 | 14384.2 | 14410.3 | 13643.5 | 11530.8 | 11304.1 | 8684.0 |
| 27.5° | 16056.4 | 16110.2 | 15893.2 | 15519.6 | 15193.4 | 15103.6 | 15072.6 | 14351.6 | 12325.3 | 12062.7 | 9259.9 |
| 30° | 17757.9 | 17850.9 | 17568.7 | 17084.2 | 16485.4 | 16064.5 | 15752.9 | 15044.9 | 13108.4 | 12857.2 | 9803.2 |
| 32.5° | 19420.4 | 19382.8 | 18973.4 | 18500.2 | 17798.7 | 17271.8 | 16518.1 | 15788.8 | 13989.4 | 13700.6 | 10343.2 |
| 35° | 20559.1 | 20572.1 | 20192.0 | 19630.8 | 18961.9 | 18557.3 | 17542.6 | 16591.5 | 14888.3 | 14622.4 | 10956.6 |
| 37.5° | 21528.1 | 21467.8 | 21037.1 | 20513.4 | 19937.5 | 19764.6 | 18741.7 | 17475.7 | 15862.2 | 15571.9 | 11609.1 |
| 40° | 21851.2 | 21781.0 | 21498.8 | 21121.9 | 20660.2 | 20645.6 | 20064.8 | 18477.4 | 16963.4 | 16676.3 | 12344.9 |
| 42.5° | 21655.4 | 21565.7 | 21449.8 | 21347.1 | 21205.1 | 21270.4 | 21307.9 | 19652.0 | 18174.0 | 17852.6 | 13196.5 |
| 45° | 20932.7 | 20797.3 | 20878.8 | 21102.3 | 21410.7 | 21779.4 | 22430.3 | 20952.3 | 19529.7 | 19260.5 | 14196.6 |
| 47.5° | 19821.7 | 19699.3 | 19953.8 | 20431.8 | 21270.4 | 22203.6 | 23492.4 | 22387.9 | 21148.0 | 20880.5 | 15620.8 |
| 50° | 18258.8 | 18294.7 | 18658.5 | 19528.0 | 20795.6 | 22399.3 | 24800.8 | 24288.5 | 23500.5 | 23250.9 | 17563.8 |
| 52.5° | 15694.2 | 15700.7 | 16725.3 | 18152.8 | 19953.8 | 22298.2 | 25526.7 | 26717.7 | 26712.8 | 26411.0 | 19413.8 |
| 55° | 13312.3 | 13457.5 | 14268.4 | 16165.7 | 18590.0 | 21893.6 | 26034.1 | 27898.8 | 28822.2 | 28468.2 | 21138.2 |
| 57.5° | 10985.9 | 11070.8 | 11839.2 | 13744.7 | 16643.7 | 20815.2 | 26554.5 | 29316.5 | 31253.0 | 31029.5 | 23281.9 |
| 60° | 8339.8 | 8470.3 | 9264.8 | 11025.1 | 14154.2 | 18901.6 | 26603.5 | 30796.2 | 34158.6 | 33933.4 | 25675.2 |
| 62.5° | 5413.0 | 5638.2 | 6382.1 | 8031.5 | 11142.6 | 16149.4 | 25468.0 | 31763.6 | 36912.4 | 36832.4 | 27799.3 |
| 65° | 3111.1 | 3280.8 | 3797.9 | 5070.4 | 7687.2 | 12694.0 | 22768.0 | 31391.7 | 38607.4 | 38561.7 | 28593.8 |
| 66° | 2541.7 | 2647.8 | 3044.2 | 3962.7 | 6342.9 | 11147.5 | 21198.6 | 30607.0 | 38775.5 | 38777.1 | 28502.4 |
| 67.5° | 2032.7 | 2080.1 | 2257.9 | 2837.0 | 4680.5 | 8835.7 | 18394.2 | 28876.0 | 38566.6 | 38623.7 | 27913.5 |
| 70° | 1682.0 | 1706.5 | 1761.9 | 1902.2 | 2554.8 | 5328.2 | 13056.2 | 24378.2 | 36470.3 | 36514.3 | 25614.8 |
| 72.5° | 1509.1 | 1523.7 | 1544.9 | 1564.5 | 1802.7 | 2977.3 | 7974.4 | 19501.9 | 31975.7 | 32032.8 | 22112.2 |
| 75° | 1367.1 | 1375.3 | 1372.0 | 1373.7 | 1512.3 | 1897.3 | 4121.0 | 14560.4 | 25854.7 | 25740.5 | 16939.0 |
| 77.5° | 1200.7 | 1208.9 | 1192.6 | 1195.8 | 1337.8 | 1458.5 | 2050.7 | 10193.1 | 17448.0 | 16642.1 | 9543.8 |
| 80° | 1014.7 | 1021.3 | 1014.7 | 1026.2 | 1164.8 | 1101.2 | 1192.6 | 5734.4 | 7715.0 | 7297.3 | 3393.3 |
| 82.5° | 766.8 | 794.5 | 814.1 | 859.8 | 959.3 | 783.1 | 797.8 | 2233.4 | 2349.2 | 2236.7 | 1040.8 |
| 85° | 336.1 | 409.5 | 613.4 | 657.5 | 721.1 | 469.8 | 523.7 | 910.3 | 956.0 | 926.6 | 378.5 |
| 87.5° | 88.1 | 96.3 | 303.4 | 381.8 | 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-740-U-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4388.5 | 4388.5 | 4388.5 | 4388.5 | 4388.5 | 4388.5 | 4388.5 | 4388.5 | 4388.5 | 4388.5 | 4388.5 |
| 2.5° | 4437.4 | 4357.5 | 4213.9 | 4086.7 | 3990.4 | 3925.2 | 3859.9 | 3827.3 | 3807.7 | 3788.1 | 3791.4 |
| 5° | 4579.4 | 4417.9 | 4171.5 | 3997.0 | 3899.1 | 3837.1 | 3804.5 | 3791.4 | 3783.3 | 3763.7 | 3763.7 |
| 7.5° | 4793.1 | 4564.7 | 4225.4 | 4045.9 | 3969.2 | 3921.9 | 3902.3 | 3895.8 | 3886.0 | 3863.2 | 3866.5 |
| 10° | 5062.3 | 4742.5 | 4337.9 | 4163.4 | 4093.2 | 4041.0 | 4013.3 | 4003.5 | 3985.5 | 3959.4 | 3962.7 |
| 12.5° | 5378.8 | 4962.8 | 4486.4 | 4303.7 | 4218.8 | 4148.7 | 4103.0 | 4075.3 | 4044.3 | 4010.0 | 4011.6 |
| 15° | 5724.6 | 5202.6 | 4646.3 | 4429.3 | 4313.5 | 4215.6 | 4142.2 | 4094.9 | 4045.9 | 4003.5 | 4001.9 |
| 17.5° | 6075.4 | 5434.2 | 4768.6 | 4497.8 | 4341.2 | 4212.3 | 4112.8 | 4039.4 | 3979.0 | 3926.8 | 3921.9 |
| 20° | 6453.9 | 5643.1 | 4837.1 | 4491.3 | 4289.0 | 4135.6 | 4003.5 | 3912.1 | 3845.2 | 3793.0 | 3784.9 |
| 22.5° | 6838.9 | 5838.8 | 4848.6 | 4424.4 | 4173.2 | 3985.5 | 3846.9 | 3745.7 | 3677.2 | 3623.4 | 3603.8 |
| 25° | 7191.3 | 5990.6 | 4801.3 | 4295.5 | 4011.6 | 3809.4 | 3673.9 | 3571.2 | 3515.7 | 3452.1 | 3432.5 |
| 27.5° | 7512.7 | 6096.6 | 4706.6 | 4130.7 | 3830.6 | 3631.5 | 3504.3 | 3416.2 | 3355.8 | 3306.9 | 3290.6 |
| 30° | 7801.4 | 6153.7 | 4551.6 | 3935.0 | 3644.6 | 3463.5 | 3355.8 | 3295.5 | 3243.3 | 3181.3 | 3169.8 |
| 32.5° | 8075.5 | 6153.7 | 4352.6 | 3721.3 | 3460.2 | 3315.0 | 3251.4 | 3213.9 | 3155.2 | 3094.8 | 3078.5 |
| 35° | 8349.6 | 6116.2 | 4117.7 | 3497.8 | 3290.6 | 3209.0 | 3205.7 | 3161.7 | 3072.0 | 2990.4 | 2969.2 |
| 37.5° | 8638.3 | 6039.5 | 3853.4 | 3288.9 | 3151.9 | 3161.7 | 3189.4 | 3091.5 | 2964.3 | 2848.4 | 2817.5 |
| 40° | 8964.6 | 5933.5 | 3579.3 | 3107.8 | 3036.1 | 3140.5 | 3145.4 | 2990.4 | 2742.4 | 2636.4 | 2608.6 |
| 42.5° | 9348.0 | 5827.4 | 3324.8 | 2948.0 | 2944.7 | 3076.8 | 3062.2 | 2771.8 | 2623.3 | 2569.5 | 2554.8 |
| 45° | 9852.1 | 5767.1 | 3083.4 | 2796.2 | 2872.9 | 2974.1 | 2920.2 | 2651.0 | 2589.1 | 2558.1 | 2545.0 |
| 47.5° | 10646.6 | 5798.0 | 2861.5 | 2675.5 | 2801.1 | 2871.3 | 2655.9 | 2602.1 | 2558.1 | 2520.5 | 2507.5 |
| 50° | 11641.8 | 5780.1 | 2682.0 | 2592.3 | 2719.6 | 2763.6 | 2536.8 | 2538.5 | 2515.6 | 2473.2 | 2453.6 |
| 52.5° | 12390.6 | 5639.8 | 2566.2 | 2545.0 | 2647.8 | 2572.7 | 2461.8 | 2476.5 | 2465.1 | 2403.1 | 2381.9 |
| 55° | 13113.3 | 5519.1 | 2507.5 | 2527.1 | 2595.6 | 2334.6 | 2373.7 | 2409.6 | 2398.2 | 2337.8 | 2328.0 |
| 57.5° | 14012.2 | 5496.2 | 2471.6 | 2532.0 | 2551.5 | 2215.5 | 2288.9 | 2336.2 | 2328.0 | 2301.9 | 2297.0 |
| 60° | 15113.4 | 5502.8 | 2439.0 | 2540.1 | 2502.6 | 2127.4 | 2208.9 | 2269.3 | 2274.2 | 2269.3 | 2266.0 |
| 62.5° | 15718.7 | 5324.9 | 2357.4 | 2517.3 | 2416.1 | 2050.7 | 2125.7 | 2213.8 | 2215.5 | 2225.2 | 2223.6 |
| 65° | 15204.8 | 4793.1 | 2205.7 | 2437.3 | 2270.9 | 1987.1 | 2054.0 | 2150.2 | 2125.7 | 2169.8 | 2169.8 |
| 66° | 14705.6 | 4486.4 | 2130.6 | 2385.1 | 2208.9 | 1962.6 | 2031.1 | 2117.6 | 2086.6 | 2146.9 | 2146.9 |
| 67.5° | 13685.9 | 3969.2 | 1995.2 | 2274.2 | 2120.8 | 1928.3 | 2005.0 | 2063.7 | 2021.3 | 2111.1 | 2104.5 |
| 70° | 11822.9 | 3070.3 | 1722.8 | 2023.0 | 1975.6 | 1877.8 | 1969.1 | 1956.1 | 1894.1 | 2031.1 | 2005.0 |
| 72.5° | 9967.9 | 2332.9 | 1383.4 | 1693.4 | 1755.4 | 1814.1 | 1918.5 | 1819.0 | 1740.7 | 1837.0 | 1779.9 |
| 75° | 7734.5 | 1753.8 | 1093.0 | 1316.6 | 1483.0 | 1714.6 | 1858.2 | 1660.8 | 1548.2 | 1538.4 | 1507.4 |
| 77.5° | 4181.3 | 1204.0 | 866.3 | 1005.0 | 1177.9 | 1590.6 | 1817.4 | 1491.1 | 1321.4 | 1282.3 | 1257.8 |
| 80° | 1655.9 | 783.1 | 629.7 | 761.9 | 823.9 | 1411.2 | 1719.5 | 1293.7 | 1089.8 | 1050.6 | 1013.1 |
| 82.5° | 683.6 | 463.3 | 406.2 | 510.6 | 536.7 | 1207.2 | 1543.3 | 1060.4 | 841.8 | 1164.8 | 1236.6 |
| 85° | 293.7 | 254.5 | 241.4 | 264.3 | 303.4 | 846.7 | 1228.5 | 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)