

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: P318713

Luminaire Tested: **GAN-SA9A-740-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41913 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

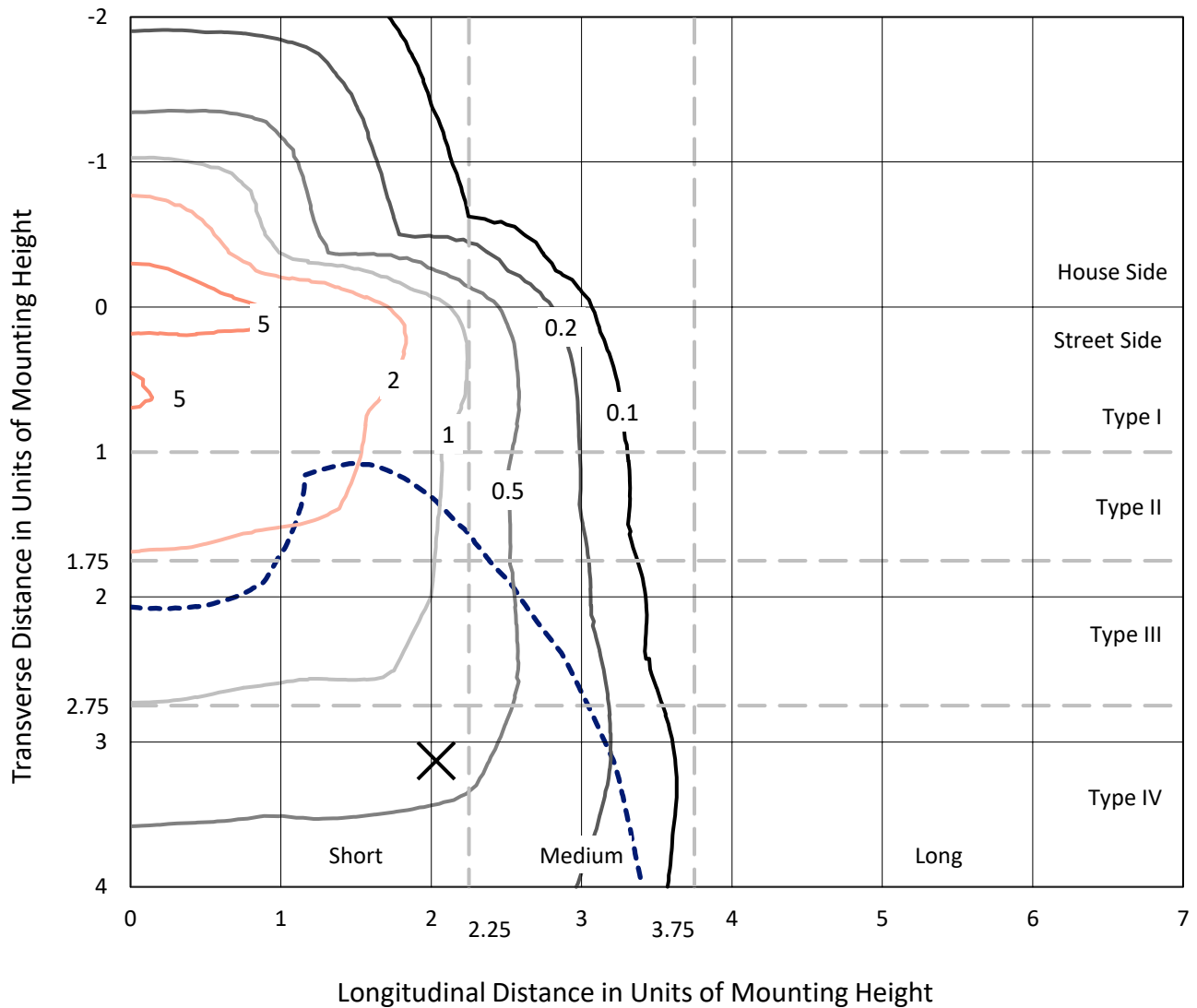
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

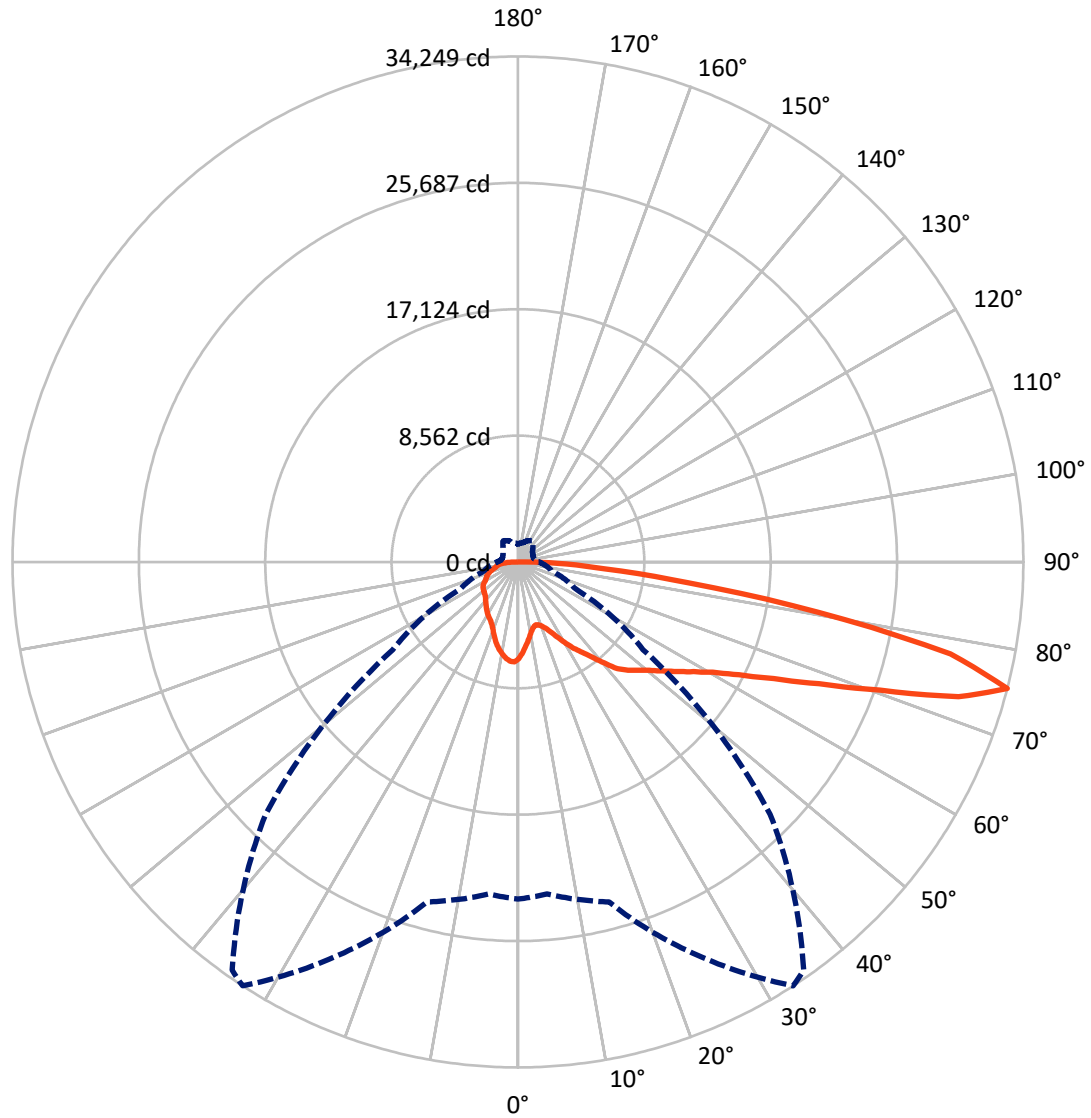
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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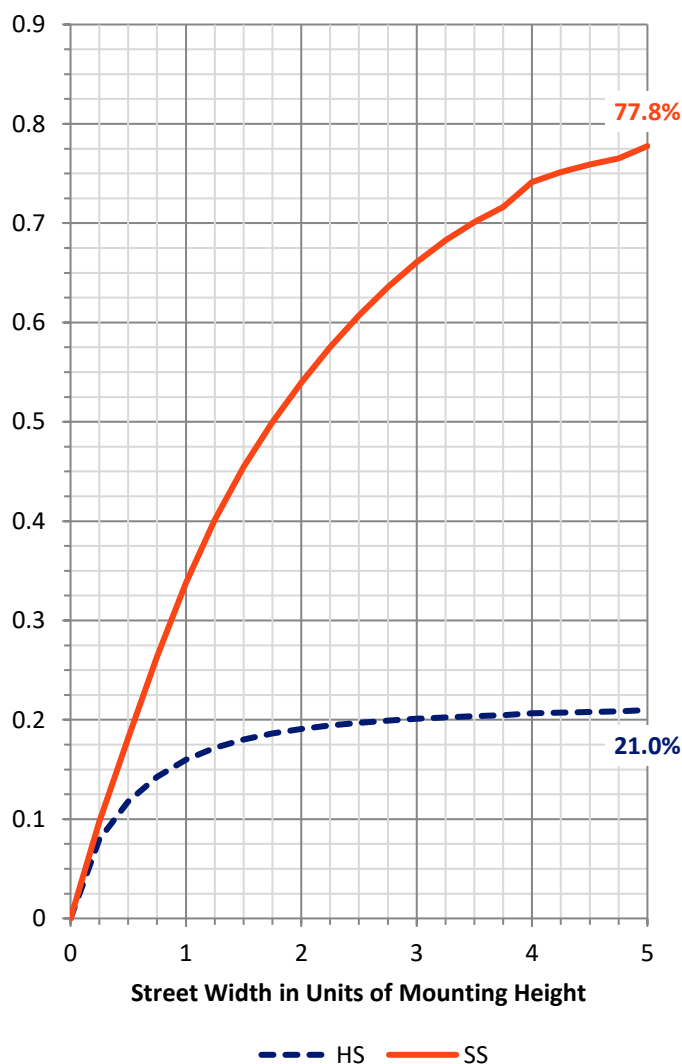
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8999.8 | 0.0 | 8999.8 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| Street Side | Lumens | 32913.2 | 0.0 | 32913.2 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| Total | Lumens | 41913.0 | 0.0 | 41913.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 592.5 | 1.4 |
| 10°-20° | 1604.7 | 3.8 |
| 20°-30° | 2620.7 | 6.3 |
| 30°-40° | 3902.8 | 9.3 |
| 40°-50° | 5597.7 | 13.4 |
| 50°-60° | 7684.7 | 18.3 |
| 60°-70° | 9621.0 | 23.0 |
| 70°-80° | 8703.6 | 20.8 |
| 80°-90° | 1585.4 | 3.8 |
| 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° | 41913.0 | 100.0 |
| 0°-180° | 41913.0 | 100.0 |

Coefficient of Utilization



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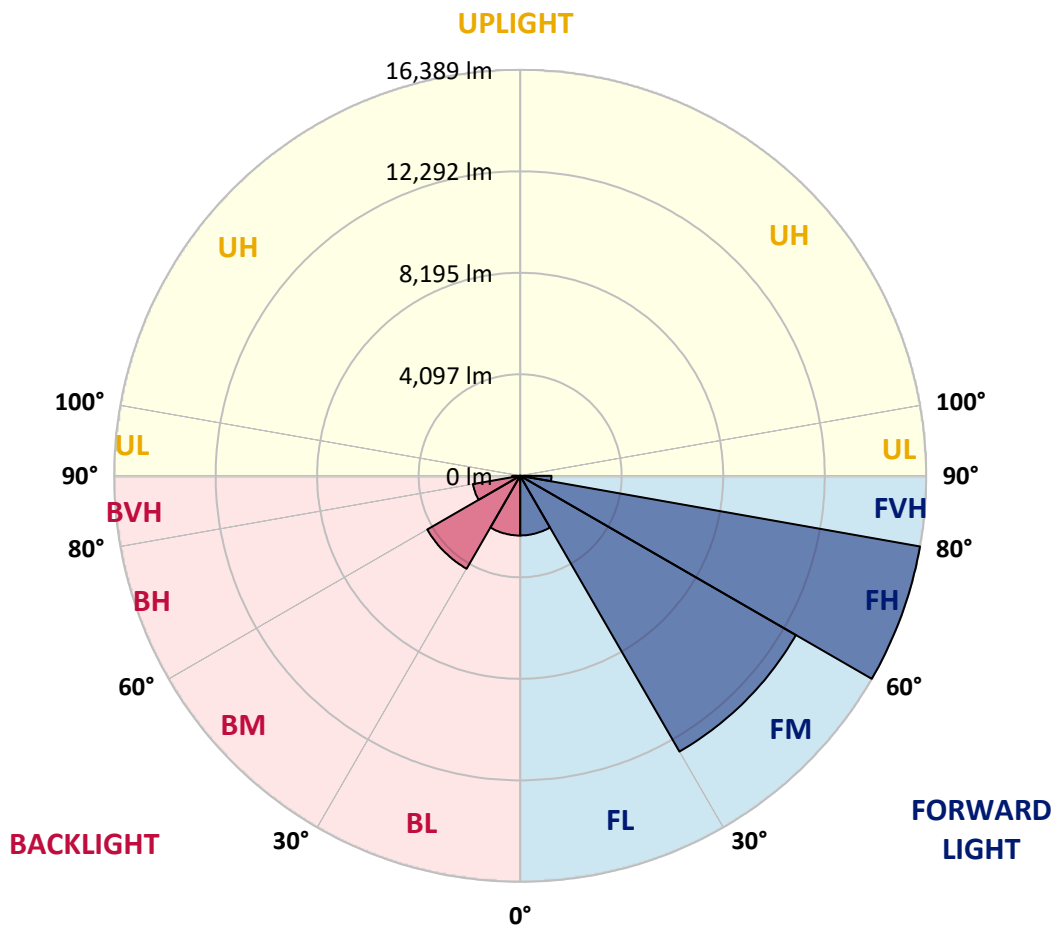
CATALOG NUMBER: GAN-SA9A-740-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2407.3 | 5.7 | | | |
| FM (30°-60°) | 12853.8 | 30.7 | | | |
| FH (60°-80°) | 16389.4 | 39.1 | | | G5 |
| FVH (80°-90°) | 1262.6 | 3.0 | | | G5 |
| BL (0°-30°) | 2410.6 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 4331.4 | 10.3 | B3/5000 | | |
| BH (60°-80°) | 1935.1 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 322.8 | 0.8 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6551.2 | 6551.2 | 6551.2 | 6551.2 | 6551.2 | 6551.2 | 6551.2 | 6551.2 | 6551.2 | 6551.2 | 6551.2 |
| 2.5° | 6083.6 | 6060.4 | 6103.9 | 6109.7 | 6147.3 | 6161.8 | 6213.9 | 6295.0 | 6361.6 | 6438.3 | 6507.8 |
| 5° | 5532.0 | 5516.1 | 5576.9 | 5620.3 | 5702.8 | 5737.6 | 5860.6 | 6032.9 | 6186.4 | 6360.1 | 6517.9 |
| 7.5° | 5007.9 | 4999.2 | 5067.3 | 5165.7 | 5261.3 | 5309.0 | 5521.9 | 5772.3 | 6028.6 | 6309.5 | 6551.2 |
| 10° | 4566.3 | 4563.4 | 4628.6 | 4725.6 | 4866.0 | 4919.6 | 5194.7 | 5524.8 | 5883.8 | 6270.4 | 6607.7 |
| 12.5° | 4318.7 | 4328.9 | 4359.3 | 4440.4 | 4570.7 | 4624.2 | 4929.7 | 5317.7 | 5762.2 | 6257.3 | 6690.2 |
| 15° | 4379.6 | 4395.5 | 4343.4 | 4340.5 | 4433.1 | 4475.1 | 4761.8 | 5170.0 | 5675.3 | 6279.1 | 6810.4 |
| 17.5° | 4638.7 | 4641.6 | 4504.1 | 4417.2 | 4473.7 | 4495.4 | 4709.7 | 5086.1 | 5624.7 | 6328.3 | 6961.0 |
| 20° | 5003.6 | 4996.3 | 4753.1 | 4608.3 | 4638.7 | 4644.5 | 4783.5 | 5087.5 | 5620.3 | 6413.7 | 7156.4 |
| 22.5° | 5487.1 | 5433.5 | 5106.3 | 4909.4 | 4902.2 | 4893.5 | 4973.1 | 5194.7 | 5684.0 | 6552.7 | 7389.5 |
| 25° | 6118.3 | 6067.7 | 5617.4 | 5348.1 | 5290.2 | 5268.5 | 5280.1 | 5423.4 | 5810.0 | 6701.8 | 7650.1 |
| 27.5° | 6820.5 | 6732.2 | 6297.9 | 5917.1 | 5796.9 | 5766.5 | 5697.0 | 5746.3 | 5947.5 | 6845.1 | 7959.9 |
| 30° | 7408.3 | 7360.5 | 6981.2 | 6529.5 | 6387.6 | 6344.2 | 6161.8 | 6108.2 | 6145.9 | 7040.6 | 8350.8 |
| 32.5° | 7737.0 | 7705.1 | 7474.9 | 7110.1 | 6978.3 | 6917.5 | 6659.8 | 6552.7 | 6464.4 | 7349.0 | 8880.7 |
| 35° | 8135.1 | 8114.8 | 7975.9 | 7710.9 | 7515.5 | 7451.8 | 7252.0 | 7140.5 | 6913.2 | 7773.2 | 9565.5 |
| 37.5° | 8641.8 | 8620.1 | 8623.0 | 8408.7 | 8175.7 | 8116.3 | 7984.5 | 7867.3 | 7495.2 | 8330.6 | 10309.7 |
| 40° | 9215.2 | 9173.2 | 9157.3 | 9147.1 | 8999.4 | 8966.1 | 8896.7 | 8737.4 | 8224.9 | 8996.5 | 11043.7 |
| 42.5° | 10078.0 | 9928.9 | 9610.4 | 9730.6 | 9876.8 | 9859.4 | 9915.9 | 9687.1 | 9035.6 | 9784.1 | 11760.4 |
| 45° | 10910.5 | 10665.8 | 10115.7 | 10141.7 | 10461.7 | 10558.7 | 10981.5 | 10819.3 | 9914.4 | 10647.0 | 12501.6 |
| 47.5° | 11289.8 | 11104.5 | 10636.9 | 10638.3 | 10955.4 | 11156.6 | 12083.2 | 11967.4 | 10838.1 | 11627.2 | 13406.5 |
| 50° | 11714.0 | 11528.7 | 11108.9 | 11266.7 | 11543.2 | 11757.5 | 13147.4 | 13088.0 | 11716.9 | 12700.0 | 14490.9 |
| 52.5° | 12177.3 | 11863.2 | 11596.8 | 11879.1 | 12267.1 | 12516.1 | 14212.9 | 14050.8 | 12523.4 | 13780.0 | 15737.4 |
| 55° | 12183.1 | 12097.7 | 12300.4 | 12507.4 | 13088.0 | 13393.5 | 15329.2 | 14900.6 | 13180.7 | 14841.3 | 16752.3 |
| 57.5° | 12876.6 | 12737.6 | 13167.6 | 13263.2 | 14021.8 | 14366.4 | 16439.6 | 15640.4 | 13849.5 | 15654.9 | 17299.6 |
| 60° | 13794.5 | 13675.8 | 14027.6 | 14279.5 | 15177.2 | 15637.5 | 17625.4 | 16400.5 | 14375.1 | 16268.8 | 17273.5 |
| 62.5° | 15379.8 | 15245.2 | 15240.9 | 15594.1 | 16803.0 | 17338.7 | 18955.9 | 17146.1 | 14583.6 | 16390.4 | 16536.6 |
| 65° | 17700.6 | 17486.4 | 17082.4 | 17250.4 | 19048.5 | 19582.8 | 20442.8 | 17686.2 | 14308.5 | 15738.9 | 14638.6 |
| 67.5° | 19959.2 | 19952.0 | 19455.4 | 19799.9 | 22013.6 | 22442.1 | 22136.7 | 17739.7 | 13449.9 | 13470.2 | 11271.0 |
| 70° | 22210.5 | 22239.5 | 22155.5 | 23354.3 | 26019.6 | 26465.5 | 23940.6 | 17020.2 | 11520.0 | 9727.7 | 6752.5 |
| 72.5° | 23994.2 | 23986.9 | 24409.7 | 27500.7 | 31218.6 | 31118.7 | 25460.8 | 14839.8 | 8271.2 | 5251.1 | 3227.1 |
| 75° | 22838.8 | 22586.9 | 23846.5 | 29553.7 | 34248.9 | 33760.9 | 24167.9 | 10351.7 | 4292.7 | 2390.3 | 1737.3 |
| 77.5° | 14896.3 | 15135.2 | 16984.0 | 24414.0 | 29957.6 | 29364.0 | 17731.0 | 4829.8 | 2022.6 | 1568.0 | 1259.6 |
| 80° | 5394.5 | 5646.4 | 7952.7 | 13829.3 | 20639.7 | 20542.7 | 8731.6 | 1984.9 | 1368.2 | 1184.3 | 917.9 |
| 82.5° | 1856.1 | 1948.7 | 3137.4 | 6141.5 | 11653.2 | 12087.6 | 3285.0 | 1127.8 | 994.6 | 839.7 | 628.3 |
| 85° | 728.2 | 833.9 | 1434.8 | 2954.9 | 5878.0 | 5921.4 | 1330.5 | 674.7 | 692.0 | 550.2 | 344.6 |
| 87.5° | 276.5 | 335.9 | 686.3 | 1372.5 | 2684.2 | 2465.6 | 476.3 | 321.4 | 393.8 | 327.2 | 163.6 |
| 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-SA9A-740-U-T4FT

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6551.2 | 6551.2 | 6551.2 | 6551.2 | 6551.2 | 6551.2 | 6551.2 | 6551.2 | 6551.2 | 6551.2 | 6551.2 |
| 2.5° | 6561.4 | 6591.8 | 6655.5 | 6698.9 | 6745.2 | 6758.3 | 6764.1 | 6775.6 | 6787.2 | 6782.9 | 6784.3 |
| 5° | 6601.9 | 6661.3 | 6764.1 | 6807.5 | 6827.8 | 6804.6 | 6759.7 | 6723.5 | 6697.5 | 6683.0 | 6678.6 |
| 7.5° | 6668.5 | 6752.5 | 6862.5 | 6855.3 | 6808.9 | 6706.2 | 6590.3 | 6503.5 | 6431.1 | 6405.0 | 6390.5 |
| 10° | 6756.8 | 6855.3 | 6932.0 | 6849.5 | 6714.8 | 6536.8 | 6363.0 | 6228.4 | 6119.8 | 6077.8 | 6070.6 |
| 12.5° | 6869.8 | 6969.6 | 6984.1 | 6808.9 | 6586.0 | 6342.8 | 6106.8 | 5928.7 | 5766.5 | 5714.4 | 5702.8 |
| 15° | 7016.0 | 7110.1 | 7020.3 | 6738.0 | 6426.7 | 6099.5 | 5794.0 | 5552.3 | 5381.4 | 5317.7 | 5294.6 |
| 17.5° | 7169.4 | 7259.2 | 7027.6 | 6620.7 | 6218.2 | 5811.4 | 5427.8 | 5180.2 | 4984.7 | 4910.9 | 4902.2 |
| 20° | 7353.3 | 7393.8 | 6997.2 | 6452.8 | 5931.6 | 5437.9 | 5034.0 | 4800.9 | 4696.6 | 4644.5 | 4638.7 |
| 22.5° | 7580.6 | 7537.2 | 6927.7 | 6225.5 | 5568.2 | 5006.4 | 4677.8 | 4569.2 | 4543.2 | 4531.6 | 4535.9 |
| 25° | 7820.9 | 7687.7 | 6824.9 | 5928.7 | 5109.2 | 4575.0 | 4417.2 | 4447.6 | 4482.3 | 4478.0 | 4478.0 |
| 27.5° | 8085.9 | 7841.2 | 6667.1 | 5534.9 | 4601.1 | 4221.7 | 4240.6 | 4352.0 | 4404.2 | 4402.7 | 4401.3 |
| 30° | 8426.1 | 8014.9 | 6465.8 | 5061.5 | 4126.2 | 3972.7 | 4087.1 | 4223.2 | 4294.1 | 4291.2 | 4292.7 |
| 32.5° | 8844.5 | 8206.1 | 6192.2 | 4533.0 | 3783.1 | 3788.9 | 3920.6 | 4055.3 | 4137.8 | 4130.5 | 4132.0 |
| 35° | 9333.9 | 8420.3 | 5821.6 | 4011.8 | 3555.8 | 3642.6 | 3746.9 | 3841.0 | 3919.2 | 3909.0 | 3898.9 |
| 37.5° | 9866.7 | 8630.3 | 5329.3 | 3545.6 | 3370.4 | 3506.5 | 3593.4 | 3609.3 | 3645.5 | 3619.5 | 3600.6 |
| 40° | 10373.4 | 8791.0 | 4695.2 | 3163.4 | 3183.7 | 3390.7 | 3447.2 | 3383.5 | 3318.3 | 3309.6 | 3283.6 |
| 42.5° | 10815.0 | 8844.5 | 4053.8 | 2857.9 | 2986.8 | 3269.1 | 3303.9 | 3170.7 | 3053.4 | 2998.4 | 2975.2 |
| 45° | 11281.2 | 8863.4 | 3455.9 | 2601.7 | 2797.1 | 3160.5 | 3198.2 | 3020.1 | 2855.0 | 2736.3 | 2697.2 |
| 47.5° | 11890.7 | 8999.4 | 2991.1 | 2412.0 | 2652.3 | 3088.1 | 3141.7 | 2899.9 | 2685.6 | 2516.3 | 2480.1 |
| 50° | 12688.4 | 9268.7 | 2613.3 | 2267.2 | 2558.2 | 3040.4 | 3101.2 | 2782.6 | 2546.7 | 2342.5 | 2306.3 |
| 52.5° | 13574.5 | 9516.3 | 2307.8 | 2150.0 | 2467.0 | 2956.4 | 3049.0 | 2698.7 | 2416.4 | 2181.8 | 2142.7 |
| 55° | 14194.1 | 9326.6 | 2061.6 | 2028.3 | 2348.3 | 2836.2 | 2976.7 | 2627.7 | 2229.6 | 2025.5 | 1990.7 |
| 57.5° | 14312.8 | 8678.0 | 1874.9 | 1902.4 | 2205.0 | 2685.6 | 2865.2 | 2469.9 | 2128.2 | 1957.4 | 1921.2 |
| 60° | 13988.5 | 7774.6 | 1735.9 | 1786.6 | 2051.5 | 2496.0 | 2656.7 | 2358.4 | 2031.2 | 1885.0 | 1854.6 |
| 62.5° | 13173.4 | 6849.5 | 1633.1 | 1682.3 | 1908.2 | 2303.4 | 2526.4 | 2241.2 | 1932.8 | 1802.5 | 1772.1 |
| 65° | 11527.3 | 5750.6 | 1534.7 | 1589.7 | 1775.0 | 2136.9 | 2409.1 | 2132.6 | 1835.8 | 1735.9 | 1706.9 |
| 67.5° | 8701.2 | 4307.2 | 1442.0 | 1491.2 | 1656.3 | 1992.2 | 2281.7 | 2025.5 | 1741.7 | 1678.0 | 1643.2 |
| 70° | 5123.7 | 2697.2 | 1336.3 | 1388.4 | 1531.8 | 1841.6 | 2145.6 | 1908.2 | 1624.4 | 1595.5 | 1550.6 |
| 72.5° | 2384.5 | 1623.0 | 1216.1 | 1266.8 | 1375.4 | 1640.3 | 1970.4 | 1754.7 | 1485.4 | 1421.7 | 1360.9 |
| 75° | 1423.2 | 1187.2 | 1074.3 | 1119.1 | 1195.9 | 1426.1 | 1750.4 | 1598.4 | 1353.7 | 1269.7 | 1206.0 |
| 77.5° | 1064.1 | 907.8 | 917.9 | 965.7 | 1027.9 | 1248.0 | 1550.6 | 1475.3 | 1252.3 | 1187.2 | 1143.8 |
| 80° | 765.9 | 689.1 | 748.5 | 800.6 | 865.8 | 1135.1 | 1485.4 | 1363.8 | 1132.2 | 1045.3 | 1004.8 |
| 82.5° | 511.1 | 495.1 | 563.2 | 616.8 | 680.5 | 993.2 | 1395.7 | 1194.4 | 967.1 | 857.1 | 767.3 |
| 85° | 282.3 | 298.2 | 379.3 | 402.5 | 457.5 | 699.3 | 1143.8 | 959.9 | 728.2 | 586.4 | 560.3 |
| 87.5° | 117.3 | 137.5 | 204.1 | 196.9 | 243.2 | 417.0 | 752.8 | 579.1 | 463.3 | 346.0 | 269.3 |
| 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)