

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: P322872

Luminaire Tested: **GAN-SA8A-740-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27070 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

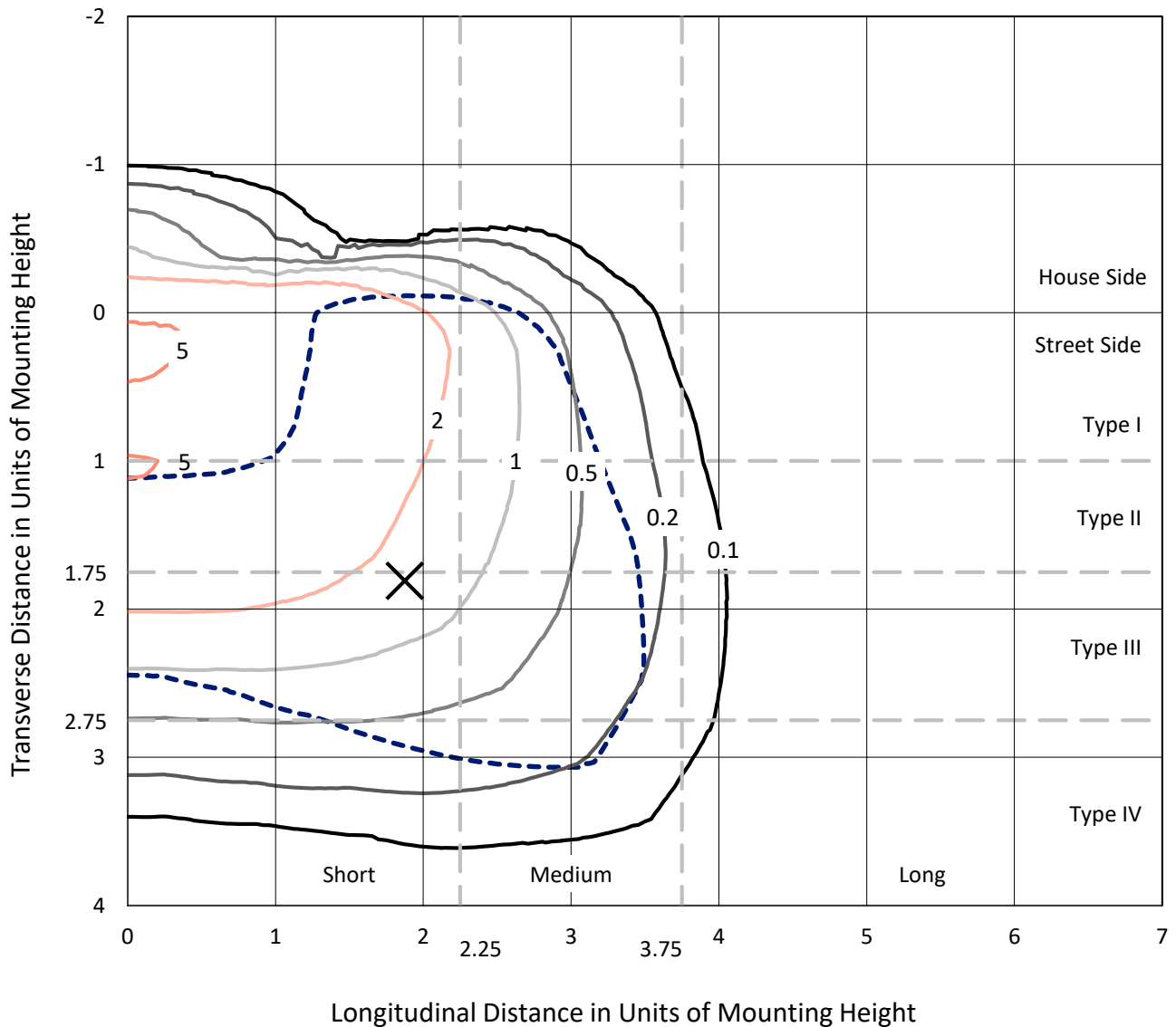
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

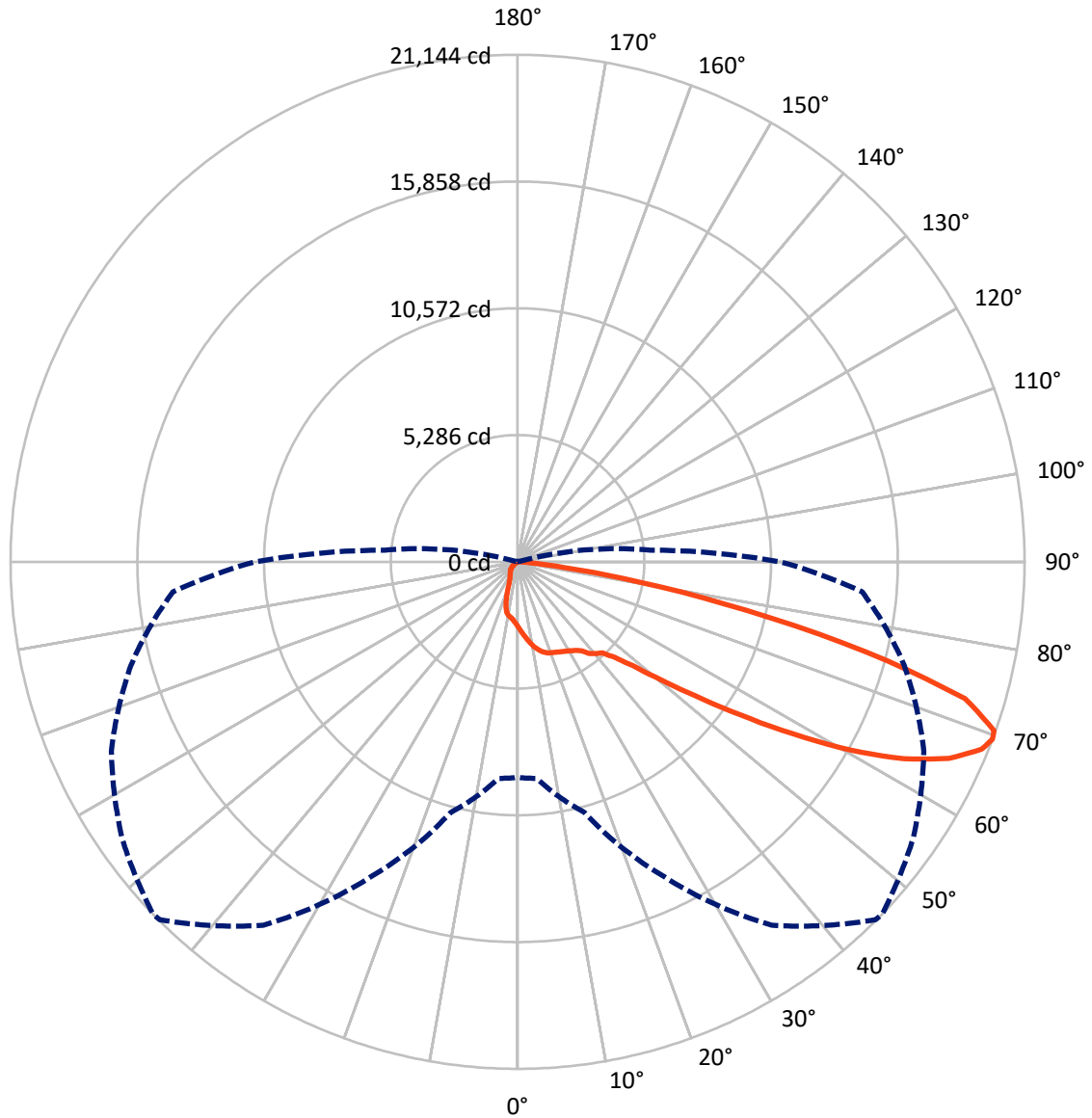
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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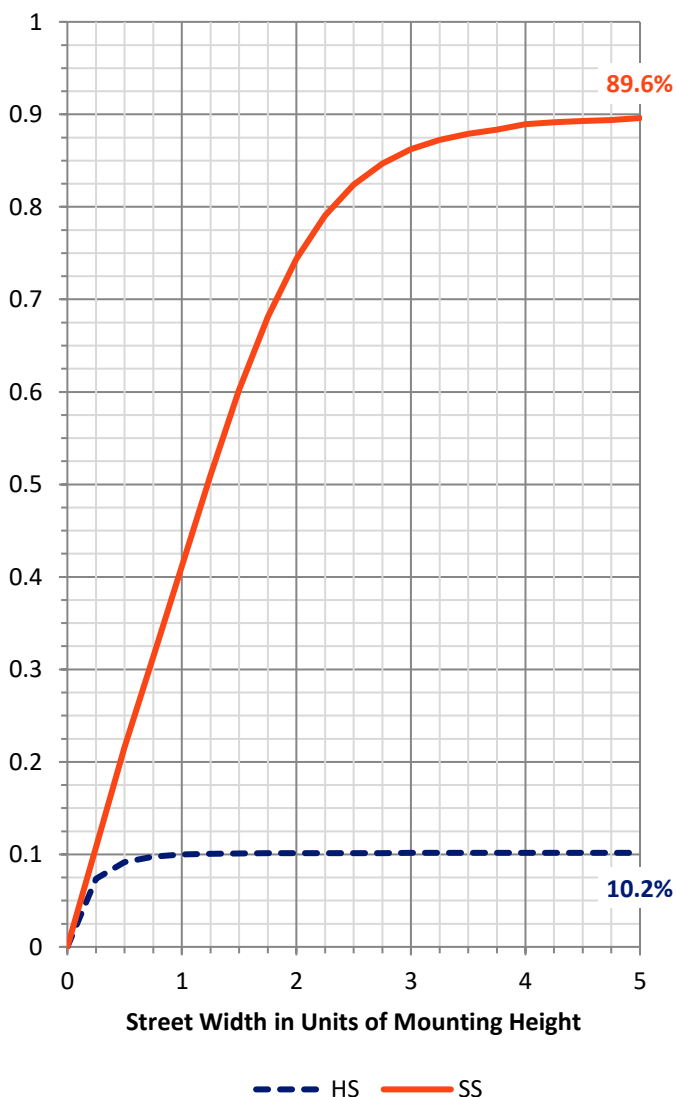
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2778.1 | 0.0 | 2778.1 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 24291.9 | 0.0 | 24291.9 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 27070.0 | 0.0 | 27070.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 270.0 | 1.0 |
| 10°-20° | 819.0 | 3.0 |
| 20°-30° | 1288.0 | 4.8 |
| 30°-40° | 1847.1 | 6.8 |
| 40°-50° | 3192.4 | 11.8 |
| 50°-60° | 6306.9 | 23.3 |
| 60°-70° | 8814.5 | 32.6 |
| 70°-80° | 4258.4 | 15.7 |
| 80°-90° | 273.7 | 1.0 |
| 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° | 27070.0 | 100.0 |
| 0°-180° | 27070.0 | 100.0 |

Coefficient of Utilization

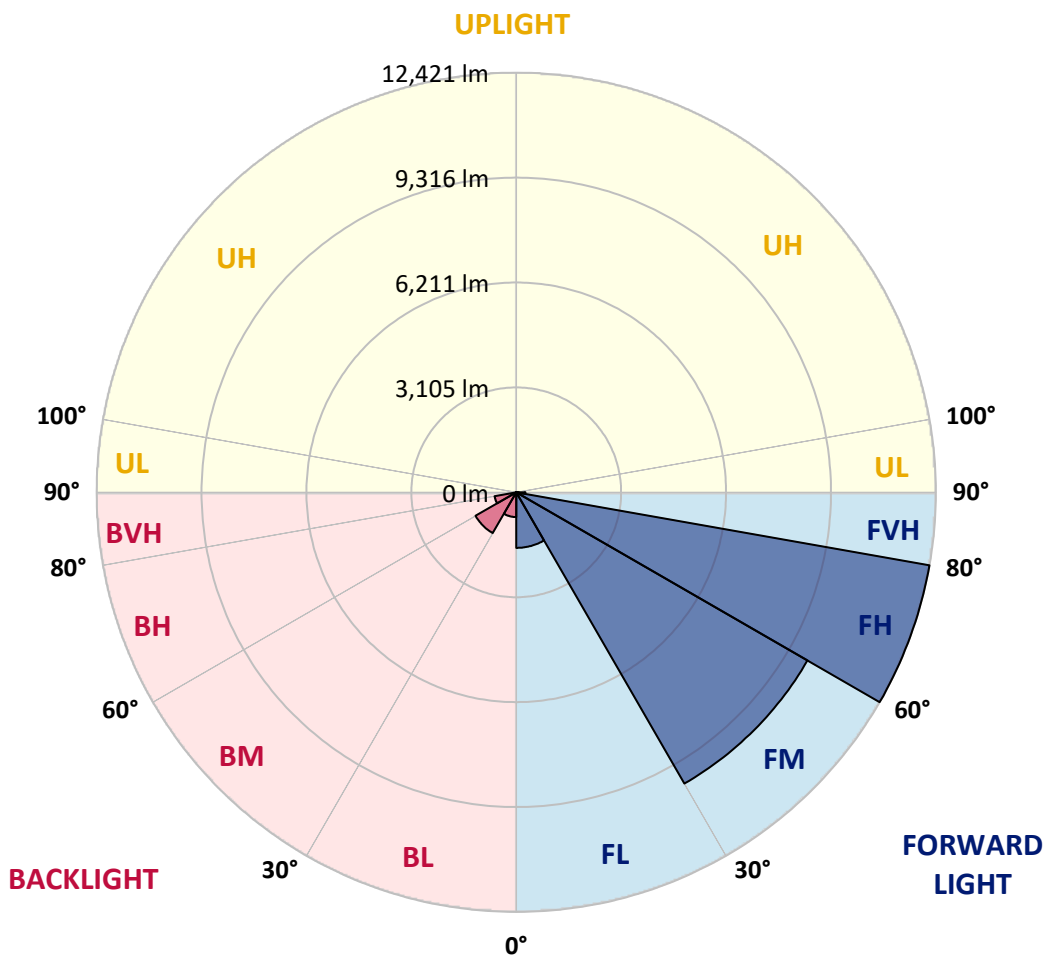


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1644.8 | 6.1 | | | |
| FM (30°-60°) | 9954.2 | 36.8 | | | |
| FH (60°-80°) | 12421.4 | 45.9 | | | G5 |
| FVH (80°-90°) | 271.4 | 1.0 | | | G3/500 |
| BL (0°-30°) | 732.2 | 2.7 | B2/1000 | | |
| BM (30°-60°) | 1392.2 | 5.1 | B2/2500 | | |
| BH (60°-80°) | 651.4 | 2.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 2.3 | 0.0 | | | G0/10 |
| 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° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2712.3 | 2712.3 | 2712.3 | 2712.3 | 2712.3 | 2712.3 | 2712.3 | 2712.3 | 2712.3 | 2712.3 | 2712.3 |
| 2.5° | 3013.1 | 3009.3 | 2991.5 | 2983.9 | 2940.8 | 2915.4 | 2905.2 | 2873.5 | 2827.8 | 2782.1 | 2731.4 |
| 5° | 3355.8 | 3354.5 | 3321.5 | 3289.8 | 3208.6 | 3132.4 | 3118.5 | 3044.8 | 2942.0 | 2845.6 | 2749.1 |
| 7.5° | 3706.1 | 3689.6 | 3656.6 | 3595.7 | 3477.6 | 3355.8 | 3344.4 | 3240.3 | 3094.3 | 2954.7 | 2816.4 |
| 10° | 4003.1 | 3993.0 | 3949.8 | 3857.1 | 3718.8 | 3580.5 | 3566.5 | 3438.3 | 3273.3 | 3102.0 | 2925.5 |
| 12.5° | 4234.1 | 4226.5 | 4169.4 | 4053.9 | 3906.6 | 3763.2 | 3744.2 | 3630.0 | 3453.5 | 3261.9 | 3053.7 |
| 15° | 4375.0 | 4371.2 | 4301.4 | 4178.3 | 4033.6 | 3909.2 | 3892.7 | 3792.4 | 3628.7 | 3428.2 | 3193.3 |
| 17.5° | 4408.0 | 4409.3 | 4336.9 | 4212.5 | 4093.2 | 4004.4 | 3991.7 | 3915.5 | 3778.5 | 3579.2 | 3333.0 |
| 20° | 4334.4 | 4349.6 | 4284.9 | 4177.0 | 4103.4 | 4056.4 | 4046.3 | 4000.6 | 3885.1 | 3697.2 | 3444.6 |
| 22.5° | 4230.3 | 4237.9 | 4193.5 | 4121.1 | 4090.7 | 4099.6 | 4094.5 | 4069.1 | 3971.4 | 3798.8 | 3555.1 |
| 25° | 4166.8 | 4166.8 | 4140.2 | 4079.3 | 4099.6 | 4154.1 | 4155.4 | 4150.3 | 4072.9 | 3923.1 | 3689.6 |
| 27.5° | 4164.3 | 4156.7 | 4126.2 | 4080.5 | 4136.4 | 4220.1 | 4225.2 | 4259.5 | 4211.3 | 4074.2 | 3857.1 |
| 30° | 4265.8 | 4256.9 | 4192.2 | 4132.6 | 4203.6 | 4293.8 | 4306.4 | 4381.3 | 4357.2 | 4237.9 | 4043.7 |
| 32.5° | 4503.2 | 4471.4 | 4328.0 | 4230.3 | 4283.6 | 4391.5 | 4408.0 | 4527.3 | 4565.4 | 4439.7 | 4223.9 |
| 35° | 4828.1 | 4727.8 | 4520.9 | 4415.6 | 4420.7 | 4533.6 | 4548.9 | 4724.0 | 4837.0 | 4625.0 | 4363.6 |
| 37.5° | 5276.1 | 5226.6 | 4890.3 | 4608.5 | 4631.4 | 4802.7 | 4847.1 | 5037.5 | 5005.8 | 4726.6 | 4522.2 |
| 40° | 6258.5 | 6181.1 | 5823.2 | 5149.2 | 4833.2 | 5021.0 | 5035.0 | 5136.5 | 5139.1 | 4956.3 | 4852.2 |
| 42.5° | 7596.3 | 7564.5 | 7187.6 | 6130.3 | 5230.4 | 5167.0 | 5192.4 | 5363.7 | 5555.4 | 5441.1 | 5436.0 |
| 45° | 9077.4 | 9060.9 | 8661.1 | 7432.5 | 6033.8 | 5645.5 | 5677.2 | 5906.9 | 6273.7 | 6299.1 | 6460.3 |
| 47.5° | 10269.2 | 10261.6 | 10031.9 | 8885.8 | 7263.7 | 6456.5 | 6466.7 | 6710.3 | 7355.1 | 7673.7 | 7931.3 |
| 50° | 11355.7 | 11392.5 | 11211.0 | 10458.3 | 8939.1 | 7727.0 | 7702.9 | 7865.3 | 8901.0 | 9422.7 | 9742.5 |
| 52.5° | 12866.0 | 12918.1 | 12409.1 | 11925.5 | 10696.9 | 9303.3 | 9284.3 | 9454.4 | 10759.1 | 11150.1 | 11207.2 |
| 55° | 14200.0 | 14111.1 | 13708.8 | 13569.2 | 12840.6 | 11250.3 | 11245.2 | 11395.0 | 12556.3 | 12722.6 | 12828.0 |
| 57.5° | 14788.9 | 14754.6 | 14948.8 | 15268.7 | 15085.9 | 13551.4 | 13540.0 | 13425.8 | 14164.4 | 14182.2 | 14505.9 |
| 60° | 15160.8 | 15202.7 | 15797.9 | 16784.1 | 17239.7 | 16027.6 | 15954.0 | 15257.2 | 15700.2 | 15660.8 | 16007.3 |
| 62.5° | 14881.5 | 14964.0 | 16035.3 | 17678.9 | 18851.7 | 18189.1 | 18085.0 | 16935.1 | 17012.6 | 16876.8 | 17199.1 |
| 65° | 13399.1 | 13527.3 | 15282.6 | 17510.1 | 19651.3 | 19878.4 | 19773.1 | 18416.3 | 18054.6 | 17831.2 | 17652.2 |
| 67.5° | 10879.7 | 10955.9 | 12788.6 | 16041.6 | 19290.8 | 20886.2 | 20864.6 | 19714.7 | 18841.5 | 17670.0 | 16281.5 |
| 69° | 8991.1 | 9066.0 | 10830.2 | 14495.7 | 18497.5 | 21102.0 | 21143.9 | 20131.0 | 18691.7 | 16690.2 | 14425.9 |
| 70° | 7615.3 | 7695.3 | 9338.9 | 13170.6 | 17577.4 | 21001.7 | 21076.6 | 20091.7 | 18262.7 | 15555.5 | 12797.5 |
| 72.5° | 3994.2 | 4062.8 | 5749.5 | 9073.6 | 14329.4 | 19284.5 | 19511.6 | 18393.5 | 15480.6 | 11297.3 | 7567.1 |
| 75° | 1255.3 | 1294.6 | 2245.2 | 4743.1 | 9811.0 | 14994.5 | 15046.5 | 14428.4 | 10992.7 | 6214.1 | 3151.5 |
| 77.5° | 478.5 | 467.1 | 747.6 | 1747.7 | 4960.1 | 9441.7 | 9760.3 | 9016.5 | 5768.6 | 2197.0 | 727.3 |
| 80° | 257.7 | 258.9 | 388.4 | 723.5 | 2122.1 | 4852.2 | 5121.3 | 4369.9 | 2049.8 | 685.4 | 167.5 |
| 82.5° | 111.7 | 116.8 | 218.3 | 383.3 | 974.8 | 1789.6 | 1924.1 | 1601.7 | 783.1 | 460.7 | 62.2 |
| 85° | 24.1 | 26.7 | 105.3 | 208.2 | 397.3 | 502.6 | 526.7 | 519.1 | 498.8 | 357.9 | 24.1 |
| 87.5° | 0.0 | 0.0 | 47.0 | 74.9 | 100.3 | 114.2 | 100.3 | 130.7 | 275.4 | 241.2 | 12.7 |
| 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-SA8A-740-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2712.3 | 2712.3 | 2712.3 | 2712.3 | 2712.3 | 2712.3 | 2712.3 | 2712.3 | 2712.3 | 2712.3 | 2712.3 |
| 2.5° | 2714.9 | 2692.0 | 2652.7 | 2609.5 | 2579.0 | 2547.3 | 2521.9 | 2510.5 | 2497.8 | 2488.9 | 2500.4 |
| 5° | 2709.8 | 2665.4 | 2589.2 | 2515.6 | 2462.3 | 2419.1 | 2383.6 | 2369.6 | 2355.7 | 2345.5 | 2344.2 |
| 7.5° | 2754.2 | 2692.0 | 2575.2 | 2467.4 | 2384.9 | 2326.5 | 2278.2 | 2257.9 | 2241.4 | 2233.8 | 2227.5 |
| 10° | 2839.2 | 2759.3 | 2603.2 | 2462.3 | 2355.7 | 2256.7 | 2152.6 | 2072.6 | 2020.6 | 1996.5 | 1987.6 |
| 12.5° | 2949.7 | 2849.4 | 2656.5 | 2488.9 | 2334.1 | 2143.7 | 1922.9 | 1732.5 | 1609.4 | 1568.7 | 1544.6 |
| 15° | 3079.1 | 2954.7 | 2726.3 | 2523.2 | 2255.4 | 1907.6 | 1533.2 | 1284.4 | 1170.2 | 1147.4 | 1122.0 |
| 17.5° | 3203.5 | 3066.4 | 2810.0 | 2529.5 | 2082.8 | 1524.3 | 1123.3 | 954.4 | 910.0 | 925.3 | 929.1 |
| 20° | 3312.7 | 3176.8 | 2892.5 | 2473.7 | 1769.3 | 1143.6 | 869.4 | 827.5 | 844.0 | 873.2 | 878.3 |
| 22.5° | 3423.1 | 3283.5 | 2968.7 | 2326.5 | 1368.2 | 868.1 | 783.1 | 793.3 | 809.8 | 839.0 | 844.0 |
| 25° | 3557.6 | 3412.9 | 3039.8 | 2056.1 | 1026.8 | 738.7 | 743.8 | 759.0 | 775.5 | 802.1 | 804.7 |
| 27.5° | 3712.5 | 3576.6 | 3086.7 | 1704.6 | 761.5 | 679.0 | 695.5 | 718.4 | 734.9 | 760.3 | 765.3 |
| 30° | 3918.1 | 3792.4 | 3102.0 | 1340.3 | 638.4 | 625.7 | 633.3 | 661.3 | 685.4 | 708.2 | 712.0 |
| 32.5° | 4111.0 | 4005.6 | 3051.2 | 1011.6 | 591.5 | 576.2 | 576.2 | 592.7 | 620.6 | 642.2 | 647.3 |
| 35° | 4288.7 | 4220.1 | 2888.7 | 740.0 | 555.9 | 530.5 | 517.8 | 517.8 | 535.6 | 553.4 | 558.5 |
| 37.5° | 4523.5 | 4520.9 | 2626.0 | 590.2 | 521.6 | 492.5 | 465.8 | 445.5 | 439.1 | 443.0 | 445.5 |
| 40° | 4925.8 | 4929.6 | 2283.3 | 529.3 | 492.5 | 453.1 | 412.5 | 375.7 | 341.4 | 330.0 | 328.7 |
| 42.5° | 5554.1 | 5497.0 | 1924.1 | 500.1 | 467.1 | 412.5 | 351.6 | 302.1 | 248.8 | 232.3 | 231.0 |
| 45° | 6551.7 | 6212.8 | 1543.4 | 473.4 | 440.4 | 366.8 | 290.7 | 223.4 | 180.2 | 167.5 | 167.5 |
| 47.5° | 8004.9 | 7153.3 | 1195.6 | 444.2 | 404.9 | 314.8 | 219.6 | 161.2 | 132.0 | 125.7 | 126.9 |
| 50° | 9507.7 | 8074.7 | 916.4 | 407.4 | 361.7 | 260.2 | 162.5 | 116.8 | 100.3 | 100.3 | 101.5 |
| 52.5° | 10840.4 | 8750.0 | 714.6 | 368.1 | 308.4 | 204.3 | 123.1 | 91.4 | 83.8 | 82.5 | 83.8 |
| 55° | 12088.0 | 9185.3 | 547.0 | 322.4 | 245.0 | 152.3 | 93.9 | 74.9 | 69.8 | 67.3 | 66.0 |
| 57.5° | 13291.2 | 9401.1 | 410.0 | 260.2 | 177.7 | 110.4 | 74.9 | 63.5 | 58.4 | 54.6 | 53.3 |
| 60° | 14092.1 | 9225.9 | 281.8 | 191.7 | 123.1 | 80.0 | 62.2 | 54.6 | 48.2 | 44.4 | 43.2 |
| 62.5° | 14543.9 | 8747.4 | 181.5 | 138.3 | 87.6 | 59.7 | 49.5 | 45.7 | 36.8 | 33.0 | 33.0 |
| 65° | 14361.2 | 7958.0 | 126.9 | 99.0 | 63.5 | 44.4 | 36.8 | 36.8 | 26.7 | 21.6 | 20.3 |
| 67.5° | 12726.4 | 6723.0 | 96.5 | 73.6 | 45.7 | 33.0 | 27.9 | 31.7 | 16.5 | 10.2 | 10.2 |
| 69° | 10949.5 | 5571.9 | 82.5 | 60.9 | 38.1 | 26.7 | 24.1 | 29.2 | 11.4 | 7.6 | 6.3 |
| 70° | 9516.6 | 4806.5 | 74.9 | 53.3 | 31.7 | 22.8 | 21.6 | 27.9 | 11.4 | 6.3 | 5.1 |
| 72.5° | 5693.7 | 2680.6 | 57.1 | 38.1 | 20.3 | 17.8 | 17.8 | 31.7 | 11.4 | 6.3 | 5.1 |
| 75° | 2301.1 | 944.3 | 41.9 | 26.7 | 15.2 | 15.2 | 21.6 | 40.6 | 10.2 | 5.1 | 3.8 |
| 77.5° | 521.6 | 206.9 | 24.1 | 16.5 | 10.2 | 15.2 | 25.4 | 31.7 | 6.3 | 2.5 | 0.0 |
| 80° | 126.9 | 50.8 | 15.2 | 10.2 | 6.3 | 11.4 | 19.0 | 17.8 | 1.3 | 0.0 | 0.0 |
| 82.5° | 41.9 | 17.8 | 6.3 | 5.1 | 1.3 | 3.8 | 8.9 | 5.1 | 0.0 | 0.0 | 0.0 |
| 85° | 17.8 | 10.2 | 2.5 | 1.3 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 11.4 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)