

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: P322921

Luminaire Tested: **GAN-SA7B-750-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322921
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-SA7B-750-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 800mA 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: 29296 lumens
Efficiency: N/A
Efficacy: 99.3 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): 295
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

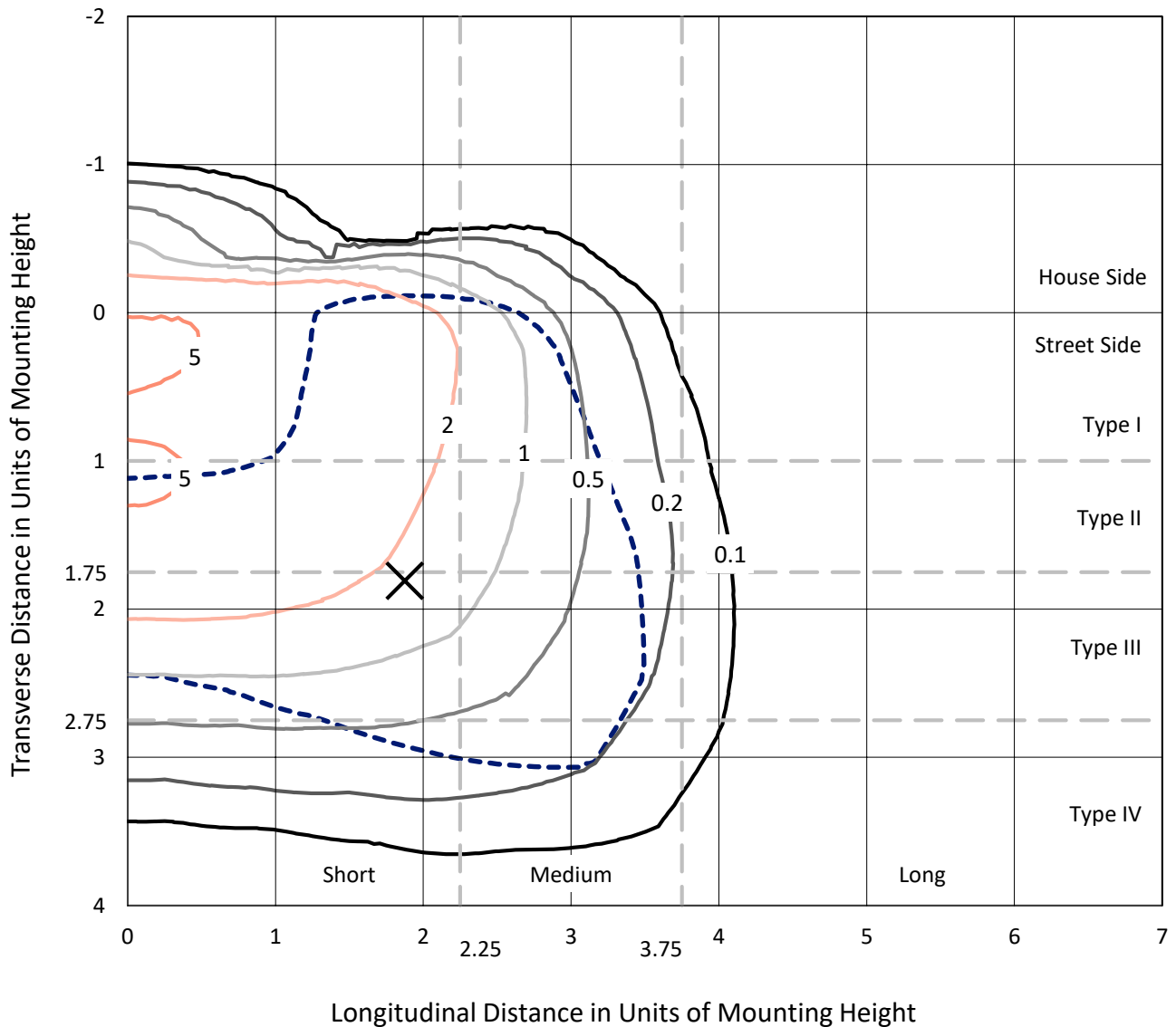




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Iso-Footcandle Lines of Horizontal Illumination

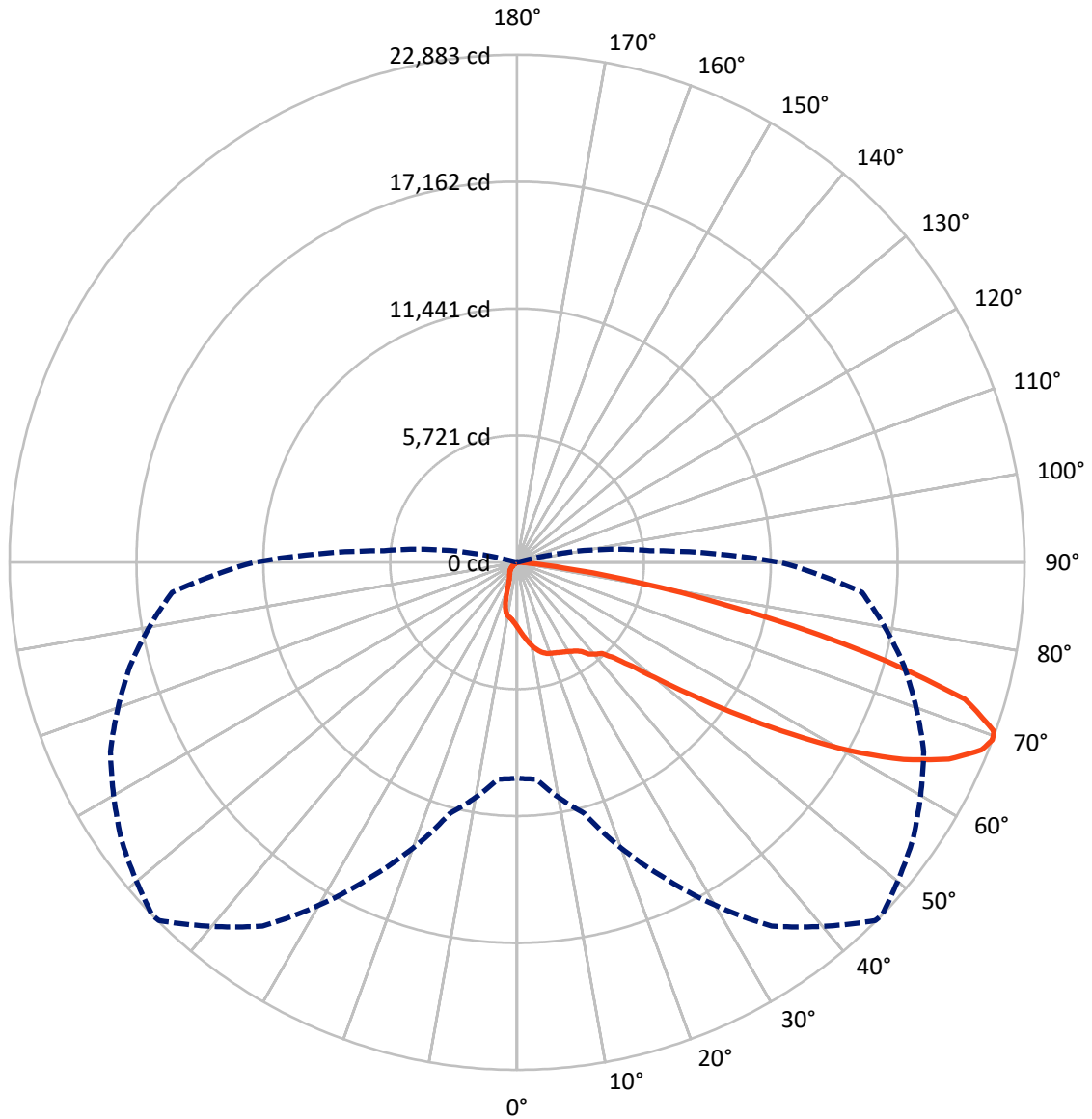
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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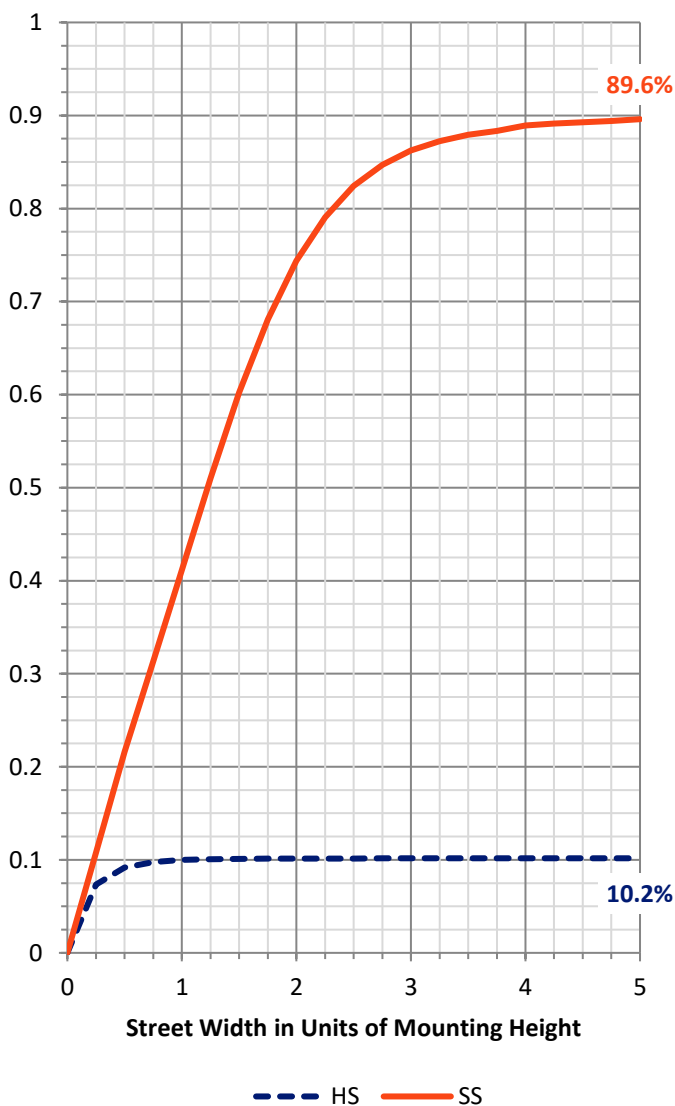
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3006.6 | 0.0 | 3006.6 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 26289.4 | 0.0 | 26289.4 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 29296.0 | 0.0 | 29296.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 292.2 | 1.0 |
| 10°-20° | 886.4 | 3.0 |
| 20°-30° | 1394.0 | 4.8 |
| 30°-40° | 1999.0 | 6.8 |
| 40°-50° | 3454.9 | 11.8 |
| 50°-60° | 6825.6 | 23.3 |
| 60°-70° | 9539.3 | 32.6 |
| 70°-80° | 4608.5 | 15.7 |
| 80°-90° | 296.2 | 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° | 29296.0 | 100.0 |
| 0°-180° | 29296.0 | 100.0 |

Coefficient of Utilization

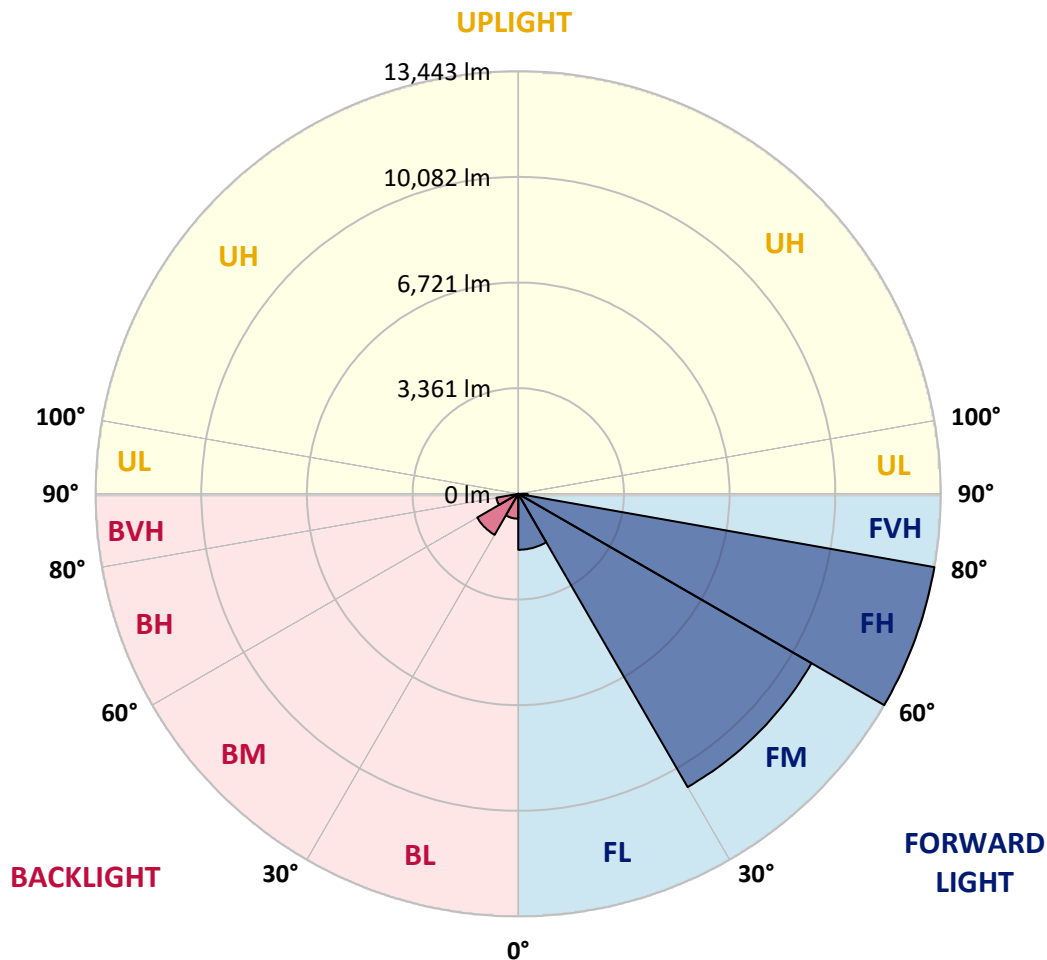


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1780.1 | 6.1 | | | |
| FM (30°-60°) | 10772.8 | 36.8 | | | |
| FH (60°-80°) | 13442.9 | 45.9 | | | G5 |
| FVH (80°-90°) | 293.7 | 1.0 | | | G3/500 |
| BL (0°-30°) | 792.4 | 2.7 | B2/1000 | | |
| BM (30°-60°) | 1506.7 | 5.1 | B2/2500 | | |
| BH (60°-80°) | 705.0 | 2.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 2.5 | 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° | 2935.3 | 2935.3 | 2935.3 | 2935.3 | 2935.3 | 2935.3 | 2935.3 | 2935.3 | 2935.3 | 2935.3 | 2935.3 |
| 2.5° | 3260.9 | 3256.8 | 3237.5 | 3229.3 | 3182.6 | 3155.1 | 3144.1 | 3109.8 | 3060.3 | 3010.9 | 2956.0 |
| 5° | 3631.8 | 3630.4 | 3594.7 | 3560.3 | 3472.4 | 3390.0 | 3374.9 | 3295.2 | 3184.0 | 3079.6 | 2975.2 |
| 7.5° | 4010.9 | 3993.0 | 3957.3 | 3891.4 | 3763.6 | 3631.8 | 3619.4 | 3506.8 | 3348.8 | 3197.7 | 3048.0 |
| 10° | 4332.3 | 4321.3 | 4274.6 | 4174.3 | 4024.6 | 3874.9 | 3859.8 | 3721.0 | 3542.5 | 3357.0 | 3166.1 |
| 12.5° | 4582.3 | 4574.0 | 4512.2 | 4387.2 | 4227.9 | 4072.7 | 4052.1 | 3928.5 | 3737.5 | 3530.1 | 3304.8 |
| 15° | 4734.7 | 4730.6 | 4655.1 | 4521.8 | 4365.3 | 4230.6 | 4212.8 | 4104.3 | 3927.1 | 3710.1 | 3455.9 |
| 17.5° | 4770.5 | 4771.8 | 4693.5 | 4558.9 | 4429.8 | 4333.7 | 4319.9 | 4237.5 | 4089.2 | 3873.5 | 3607.0 |
| 20° | 4690.8 | 4707.3 | 4637.2 | 4520.5 | 4440.8 | 4390.0 | 4379.0 | 4329.5 | 4204.5 | 4001.3 | 3727.9 |
| 22.5° | 4578.2 | 4586.4 | 4538.3 | 4460.0 | 4427.1 | 4436.7 | 4431.2 | 4403.7 | 4297.9 | 4111.1 | 3847.4 |
| 25° | 4509.5 | 4509.5 | 4480.6 | 4414.7 | 4436.7 | 4495.7 | 4497.1 | 4491.6 | 4407.8 | 4245.7 | 3993.0 |
| 27.5° | 4506.7 | 4498.5 | 4465.5 | 4416.1 | 4476.5 | 4567.2 | 4572.7 | 4609.7 | 4557.6 | 4409.2 | 4174.3 |
| 30° | 4616.6 | 4607.0 | 4536.9 | 4472.4 | 4549.3 | 4646.8 | 4660.6 | 4741.6 | 4715.5 | 4586.4 | 4376.2 |
| 32.5° | 4873.5 | 4839.1 | 4683.9 | 4578.2 | 4635.8 | 4752.6 | 4770.5 | 4899.6 | 4940.8 | 4804.8 | 4571.3 |
| 35° | 5225.1 | 5116.6 | 4892.7 | 4778.7 | 4784.2 | 4906.4 | 4922.9 | 5112.5 | 5234.7 | 5005.3 | 4722.4 |
| 37.5° | 5710.0 | 5656.4 | 5292.4 | 4987.5 | 5012.2 | 5197.6 | 5245.7 | 5451.8 | 5417.4 | 5115.2 | 4894.1 |
| 40° | 6773.1 | 6689.4 | 6302.0 | 5572.6 | 5230.6 | 5433.9 | 5449.0 | 5558.9 | 5561.6 | 5363.8 | 5251.2 |
| 42.5° | 8220.9 | 8186.6 | 7778.6 | 6634.4 | 5660.5 | 5591.9 | 5619.3 | 5804.8 | 6012.2 | 5888.6 | 5883.1 |
| 45° | 9823.9 | 9806.0 | 9373.3 | 8043.7 | 6530.0 | 6109.7 | 6144.0 | 6392.7 | 6789.6 | 6817.1 | 6991.5 |
| 47.5° | 11113.7 | 11105.4 | 10856.8 | 9616.5 | 7861.0 | 6987.4 | 6998.4 | 7262.1 | 7959.9 | 8304.7 | 8583.5 |
| 50° | 12289.5 | 12329.3 | 12132.9 | 11318.3 | 9674.2 | 8362.4 | 8336.3 | 8512.1 | 9632.9 | 10197.5 | 10543.6 |
| 52.5° | 13924.0 | 13980.3 | 13429.5 | 12906.2 | 11576.6 | 10068.4 | 10047.8 | 10231.8 | 11643.9 | 12066.9 | 12128.7 |
| 55° | 15367.7 | 15271.5 | 14836.1 | 14685.0 | 13896.6 | 12175.5 | 12170.0 | 12332.0 | 13588.9 | 13768.8 | 13882.8 |
| 57.5° | 16005.0 | 15967.9 | 16178.1 | 16524.2 | 16326.4 | 14665.8 | 14653.4 | 14529.8 | 15329.2 | 15348.4 | 15698.7 |
| 60° | 16407.5 | 16452.8 | 17097.0 | 18164.3 | 18657.4 | 17345.6 | 17266.0 | 16511.9 | 16991.2 | 16948.7 | 17323.6 |
| 62.5° | 16105.3 | 16194.6 | 17353.9 | 19132.7 | 20401.8 | 19684.8 | 19572.2 | 18327.7 | 18411.5 | 18264.6 | 18613.4 |
| 65° | 14500.9 | 14639.7 | 16539.3 | 18950.0 | 21267.2 | 21513.1 | 21399.1 | 19930.7 | 19539.2 | 19297.5 | 19103.8 |
| 67.5° | 11774.4 | 11856.8 | 13840.2 | 17360.7 | 20877.1 | 22603.7 | 22580.4 | 21335.9 | 20390.9 | 19123.0 | 17620.3 |
| 69° | 9730.5 | 9811.5 | 11720.8 | 15687.7 | 20018.6 | 22837.2 | 22882.5 | 21786.4 | 20228.8 | 18062.6 | 15612.2 |
| 70° | 8241.5 | 8328.0 | 10106.8 | 14253.7 | 19022.8 | 22728.7 | 22809.7 | 21743.8 | 19764.5 | 16834.6 | 13849.9 |
| 72.5° | 4322.7 | 4396.8 | 6222.3 | 9819.8 | 15507.8 | 20870.2 | 21116.1 | 19906.0 | 16753.6 | 12226.3 | 8189.3 |
| 75° | 1358.5 | 1401.1 | 2429.9 | 5133.1 | 10617.8 | 16227.5 | 16283.8 | 15614.9 | 11896.6 | 6725.1 | 3410.6 |
| 77.5° | 517.8 | 505.5 | 809.0 | 1891.4 | 5368.0 | 10218.1 | 10562.9 | 9757.9 | 6242.9 | 2377.7 | 787.1 |
| 80° | 278.8 | 280.2 | 420.3 | 782.9 | 2296.6 | 5251.2 | 5542.4 | 4729.3 | 2218.3 | 741.7 | 181.3 |
| 82.5° | 120.9 | 126.4 | 236.3 | 414.8 | 1054.9 | 1936.8 | 2082.4 | 1733.5 | 847.5 | 498.6 | 67.3 |
| 85° | 26.1 | 28.8 | 114.0 | 225.3 | 429.9 | 543.9 | 570.0 | 561.8 | 539.8 | 387.4 | 26.1 |
| 87.5° | 0.0 | 0.0 | 50.8 | 81.0 | 108.5 | 123.6 | 108.5 | 141.5 | 298.1 | 261.0 | 13.7 |
| 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-SA7B-750-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2935.3 | 2935.3 | 2935.3 | 2935.3 | 2935.3 | 2935.3 | 2935.3 | 2935.3 | 2935.3 | 2935.3 | 2935.3 |
| 2.5° | 2938.1 | 2913.4 | 2870.8 | 2824.1 | 2791.1 | 2756.8 | 2729.3 | 2716.9 | 2703.2 | 2693.6 | 2706.0 |
| 5° | 2932.6 | 2884.5 | 2802.1 | 2722.4 | 2664.8 | 2618.1 | 2579.6 | 2564.5 | 2549.4 | 2538.4 | 2537.0 |
| 7.5° | 2980.7 | 2913.4 | 2787.0 | 2670.2 | 2581.0 | 2517.8 | 2465.6 | 2443.6 | 2425.7 | 2417.5 | 2410.6 |
| 10° | 3072.7 | 2986.2 | 2817.2 | 2664.8 | 2549.4 | 2442.2 | 2329.6 | 2243.1 | 2186.7 | 2160.6 | 2151.0 |
| 12.5° | 3192.2 | 3083.7 | 2874.9 | 2693.6 | 2526.0 | 2320.0 | 2081.0 | 1874.9 | 1741.7 | 1697.8 | 1671.7 |
| 15° | 3332.3 | 3197.7 | 2950.5 | 2730.7 | 2440.9 | 2064.5 | 1659.3 | 1390.1 | 1266.4 | 1241.7 | 1214.2 |
| 17.5° | 3466.9 | 3318.6 | 3041.1 | 2737.6 | 2254.1 | 1649.7 | 1215.6 | 1032.9 | 984.9 | 1001.3 | 1005.5 |
| 20° | 3585.1 | 3438.1 | 3130.4 | 2677.1 | 1914.8 | 1237.6 | 940.9 | 895.6 | 913.4 | 945.0 | 950.5 |
| 22.5° | 3704.6 | 3553.5 | 3212.8 | 2517.8 | 1480.7 | 939.5 | 847.5 | 858.5 | 876.3 | 907.9 | 913.4 |
| 25° | 3850.2 | 3693.6 | 3289.7 | 2225.2 | 1111.2 | 799.4 | 804.9 | 821.4 | 839.3 | 868.1 | 870.9 |
| 27.5° | 4017.7 | 3870.8 | 3340.6 | 1844.7 | 824.2 | 734.9 | 752.7 | 777.4 | 795.3 | 822.8 | 828.3 |
| 30° | 4240.3 | 4104.3 | 3357.0 | 1450.5 | 690.9 | 677.2 | 685.4 | 715.6 | 741.7 | 766.5 | 770.6 |
| 32.5° | 4449.0 | 4335.0 | 3302.1 | 1094.7 | 640.1 | 623.6 | 623.6 | 641.5 | 671.7 | 695.0 | 700.5 |
| 35° | 4641.3 | 4567.2 | 3126.3 | 800.8 | 601.6 | 574.2 | 560.4 | 560.4 | 579.7 | 598.9 | 604.4 |
| 37.5° | 4895.5 | 4892.7 | 2841.9 | 638.7 | 564.5 | 533.0 | 504.1 | 482.1 | 475.3 | 479.4 | 482.1 |
| 40° | 5330.9 | 5335.0 | 2471.1 | 572.8 | 533.0 | 490.4 | 446.4 | 406.6 | 369.5 | 357.1 | 355.8 |
| 42.5° | 6010.8 | 5949.0 | 2082.4 | 541.2 | 505.5 | 446.4 | 380.5 | 326.9 | 269.2 | 251.4 | 250.0 |
| 45° | 7090.4 | 6723.7 | 1670.3 | 512.3 | 476.6 | 397.0 | 314.6 | 241.8 | 195.0 | 181.3 | 181.3 |
| 47.5° | 8663.2 | 7741.5 | 1293.9 | 480.8 | 438.2 | 340.6 | 237.6 | 174.4 | 142.9 | 136.0 | 137.4 |
| 50° | 10289.5 | 8738.7 | 991.7 | 440.9 | 391.5 | 281.6 | 175.8 | 126.4 | 108.5 | 108.5 | 109.9 |
| 52.5° | 11731.8 | 9469.5 | 773.3 | 398.3 | 333.8 | 221.1 | 133.2 | 98.9 | 90.7 | 89.3 | 90.7 |
| 55° | 13082.0 | 9940.6 | 592.0 | 348.9 | 265.1 | 164.8 | 101.6 | 81.0 | 75.5 | 72.8 | 71.4 |
| 57.5° | 14384.2 | 10174.1 | 443.7 | 281.6 | 192.3 | 119.5 | 81.0 | 68.7 | 63.2 | 59.1 | 57.7 |
| 60° | 15250.9 | 9984.6 | 304.9 | 207.4 | 133.2 | 86.5 | 67.3 | 59.1 | 52.2 | 48.1 | 46.7 |
| 62.5° | 15739.9 | 9466.7 | 196.4 | 149.7 | 94.8 | 64.6 | 53.6 | 49.4 | 39.8 | 35.7 | 35.7 |
| 65° | 15542.1 | 8612.4 | 137.4 | 107.1 | 68.7 | 48.1 | 39.8 | 39.8 | 28.8 | 23.4 | 22.0 |
| 67.5° | 13772.9 | 7275.9 | 104.4 | 79.7 | 49.4 | 35.7 | 30.2 | 34.3 | 17.9 | 11.0 | 11.0 |
| 69° | 11849.9 | 6030.0 | 89.3 | 65.9 | 41.2 | 28.8 | 26.1 | 31.6 | 12.4 | 8.2 | 6.9 |
| 70° | 10299.1 | 5201.8 | 81.0 | 57.7 | 34.3 | 24.7 | 23.4 | 30.2 | 12.4 | 6.9 | 5.5 |
| 72.5° | 6161.9 | 2901.0 | 61.8 | 41.2 | 22.0 | 19.2 | 19.2 | 34.3 | 12.4 | 6.9 | 5.5 |
| 75° | 2490.3 | 1021.9 | 45.3 | 28.8 | 16.5 | 16.5 | 23.4 | 44.0 | 11.0 | 5.5 | 4.1 |
| 77.5° | 564.5 | 223.9 | 26.1 | 17.9 | 11.0 | 16.5 | 27.5 | 34.3 | 6.9 | 2.7 | 0.0 |
| 80° | 137.4 | 54.9 | 16.5 | 11.0 | 6.9 | 12.4 | 20.6 | 19.2 | 1.4 | 0.0 | 0.0 |
| 82.5° | 45.3 | 19.2 | 6.9 | 5.5 | 1.4 | 4.1 | 9.6 | 5.5 | 0.0 | 0.0 | 0.0 |
| 85° | 19.2 | 11.0 | 2.7 | 1.4 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 12.4 | 4.1 | 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)