

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: P383318

Luminaire Tested: **GAN-SA6B-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6B-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23202.1 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

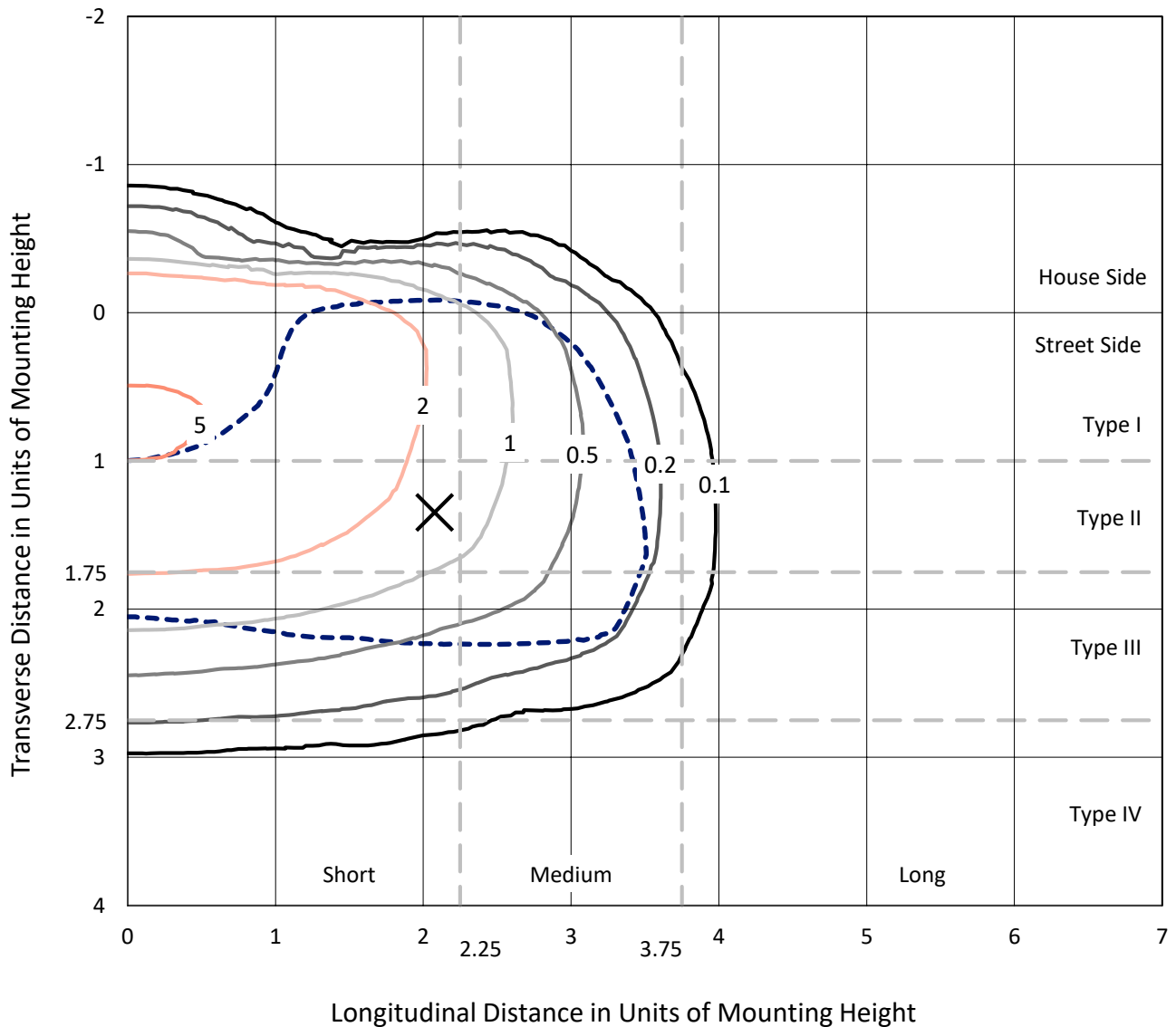
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383318
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Iso-Footcandle Lines of Horizontal Illumination

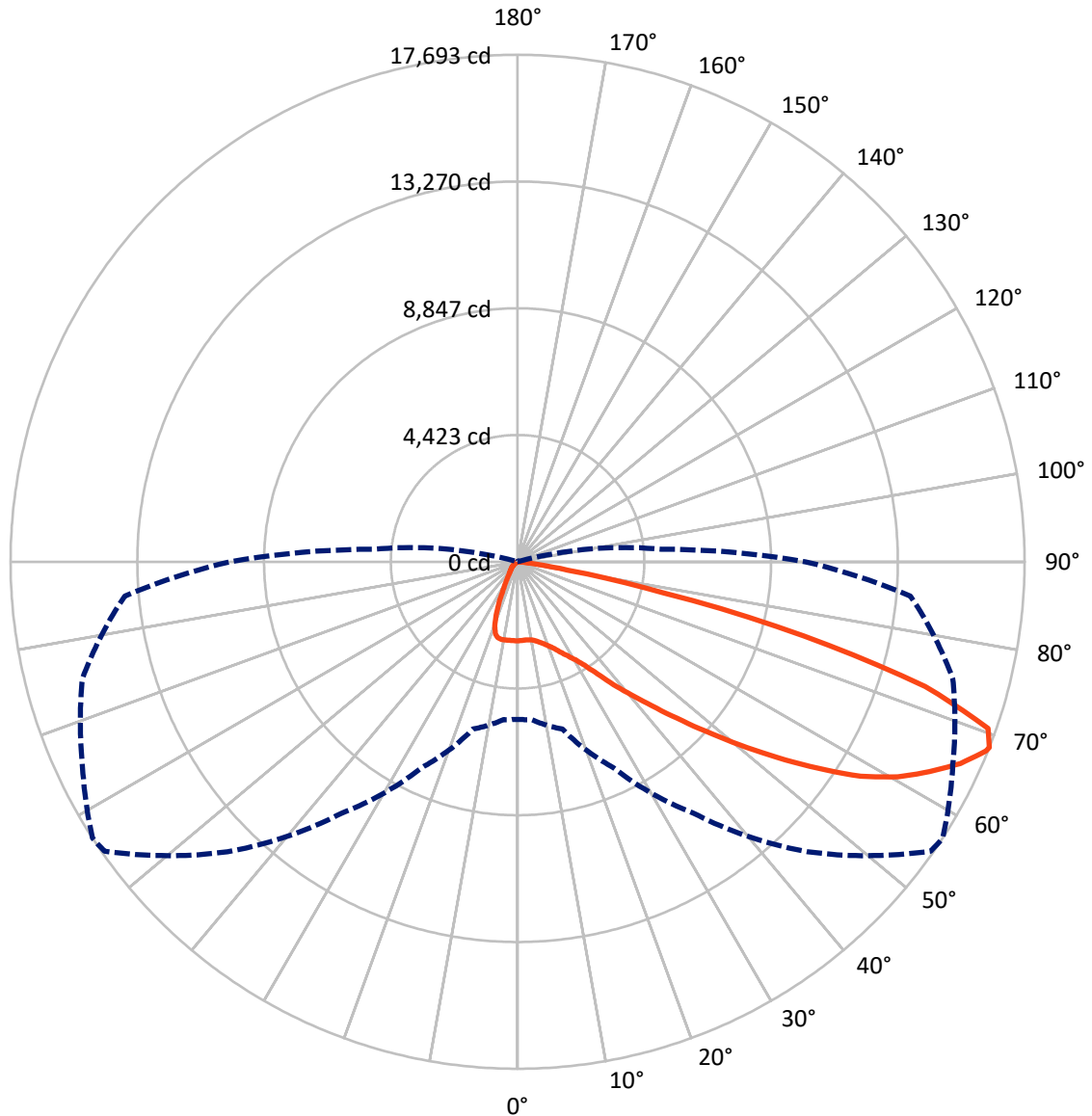
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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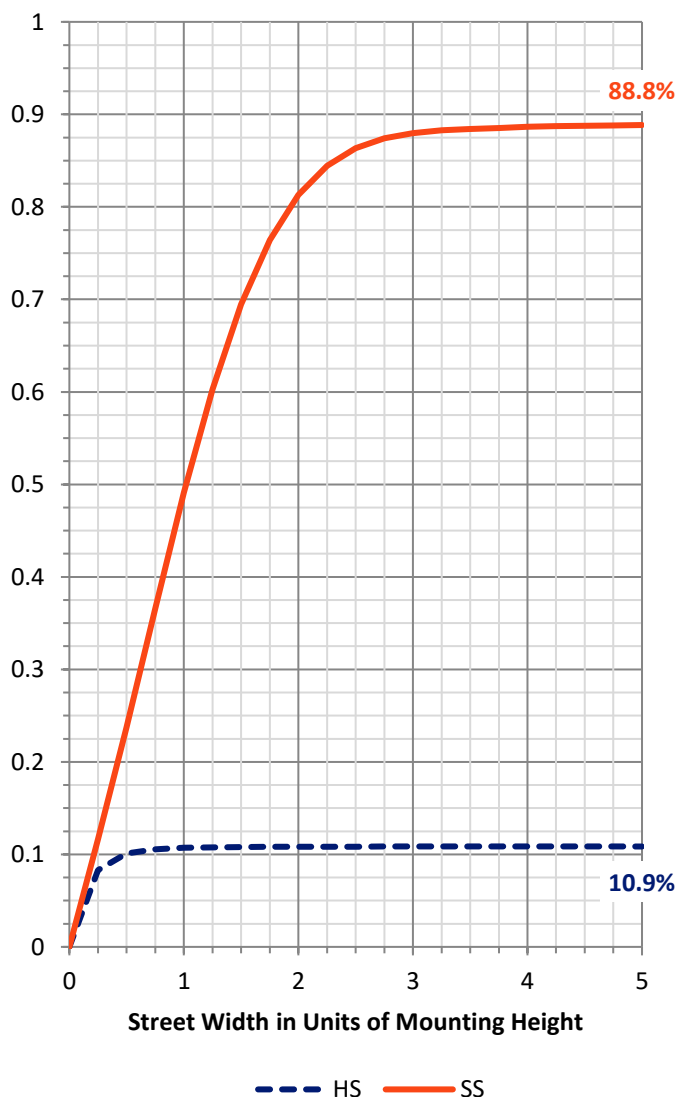
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2544.3 | 0.0 | 2544.3 |
| | % Fixture | 11.0 | 0.0 | 11.0 |
| Street Side | Lumens | 20657.8 | 0.0 | 20657.8 |
| | % Fixture | 89.0 | 0.0 | 89.0 |
| Total | Lumens | 23202.1 | 0.0 | 23202.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 258.0 | 1.1 |
| 10°-20° | 715.0 | 3.1 |
| 20°-30° | 1233.4 | 5.3 |
| 30°-40° | 2128.8 | 9.2 |
| 40°-50° | 3641.4 | 15.7 |
| 50°-60° | 5825.9 | 25.1 |
| 60°-70° | 6731.1 | 29.0 |
| 70°-80° | 2572.1 | 11.1 |
| 80°-90° | 96.4 | 0.4 |
| 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° | 23202.1 | 100.0 |
| 0°-180° | 23202.1 | 100.0 |

Coefficient of Utilization

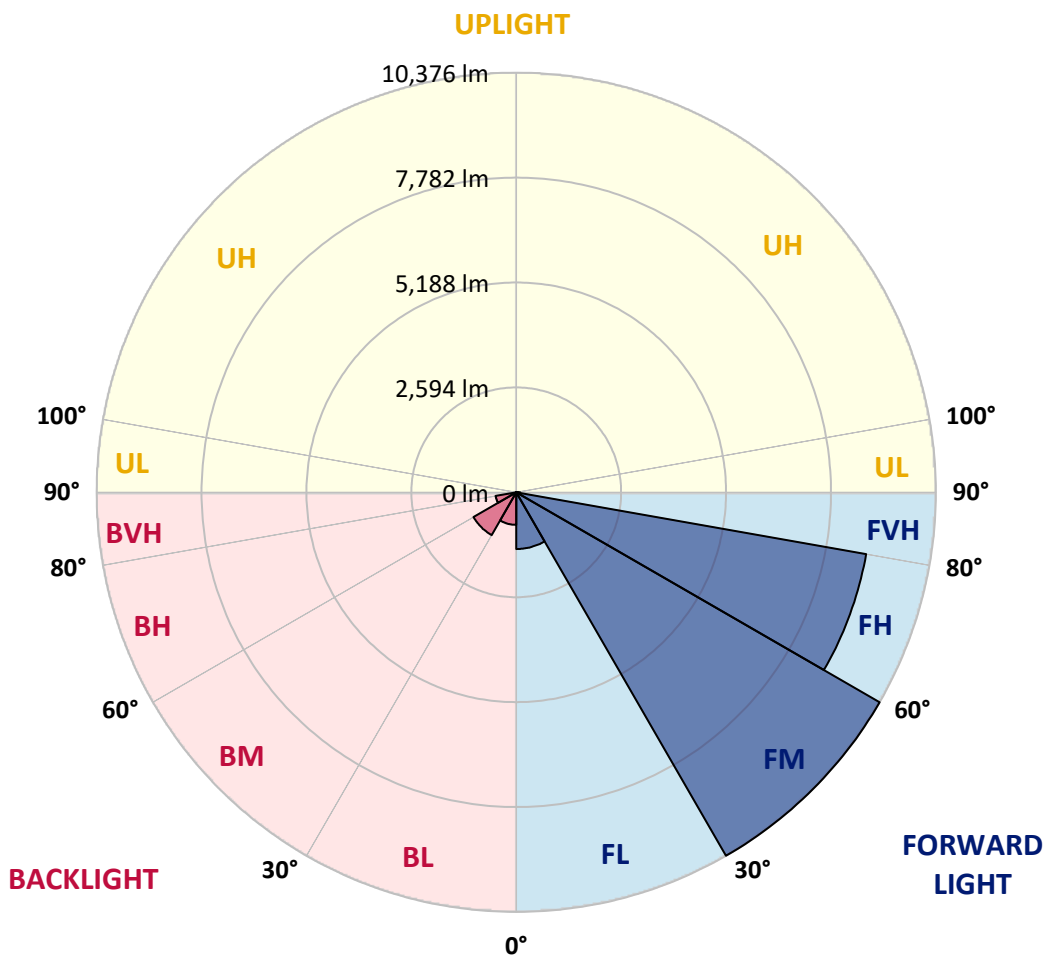


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1402.3 | 6.0 | | | |
| FM (30°-60°) | 10375.8 | 44.7 | | | |
| FH (60°-80°) | 8785.0 | 37.9 | | | G4/12000 |
| FVH (80°-90°) | 94.7 | 0.4 | | | G1/100 |
| BL (0°-30°) | 804.1 | 3.5 | B2/1000 | | |
| BM (30°-60°) | 1220.3 | 5.3 | B2/2500 | | |
| BH (60°-80°) | 518.2 | 2.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 1.8 | 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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2757.0 | 2757.0 | 2757.0 | 2757.0 | 2757.0 | 2757.0 | 2757.0 | 2757.0 | 2757.0 | 2757.0 | 2757.0 |
| 2.5° | 2692.3 | 2704.4 | 2713.1 | 2718.6 | 2725.2 | 2739.5 | 2743.9 | 2750.4 | 2753.7 | 2753.7 | 2761.4 |
| 5° | 2585.9 | 2599.0 | 2617.6 | 2633.0 | 2663.8 | 2703.3 | 2731.8 | 2742.8 | 2762.5 | 2780.0 | 2789.9 |
| 7.5° | 2487.1 | 2502.5 | 2524.4 | 2560.6 | 2613.3 | 2676.9 | 2736.1 | 2751.5 | 2789.9 | 2827.2 | 2845.9 |
| 10° | 2423.5 | 2435.5 | 2464.1 | 2515.6 | 2584.8 | 2673.6 | 2757.0 | 2775.6 | 2841.5 | 2904.0 | 2939.1 |
| 12.5° | 2401.5 | 2412.5 | 2442.1 | 2500.3 | 2585.9 | 2690.1 | 2805.3 | 2832.7 | 2929.3 | 3020.4 | 3069.7 |
| 15° | 2433.4 | 2435.5 | 2467.4 | 2522.3 | 2606.7 | 2730.6 | 2885.4 | 2918.3 | 3040.1 | 3158.6 | 3220.0 |
| 17.5° | 2556.3 | 2546.4 | 2562.9 | 2587.0 | 2653.9 | 2784.5 | 2969.9 | 3019.2 | 3181.6 | 3321.0 | 3379.1 |
| 20° | 2863.4 | 2863.4 | 2826.1 | 2760.3 | 2761.4 | 2867.9 | 3084.0 | 3139.9 | 3338.5 | 3499.7 | 3552.5 |
| 22.5° | 3389.0 | 3379.1 | 3304.5 | 3143.2 | 2995.1 | 3011.5 | 3223.2 | 3295.7 | 3527.2 | 3699.5 | 3717.0 |
| 25° | 4020.8 | 4008.8 | 3893.6 | 3666.5 | 3409.8 | 3244.1 | 3412.0 | 3495.4 | 3752.1 | 3904.6 | 3868.3 |
| 27.5° | 4690.1 | 4680.2 | 4566.2 | 4284.2 | 3918.8 | 3615.0 | 3636.9 | 3715.9 | 3981.3 | 4131.7 | 4016.5 |
| 30° | 5338.5 | 5341.8 | 5228.8 | 4939.2 | 4525.6 | 4087.8 | 3922.1 | 3968.2 | 4204.1 | 4356.6 | 4192.1 |
| 32.5° | 5955.1 | 5959.5 | 5861.9 | 5538.1 | 5152.0 | 4637.4 | 4317.1 | 4305.1 | 4463.0 | 4613.3 | 4424.6 |
| 35° | 6504.7 | 6515.7 | 6448.7 | 6197.5 | 5788.3 | 5249.6 | 4829.4 | 4800.9 | 4830.5 | 5000.5 | 4781.2 |
| 37.5° | 7034.6 | 7041.2 | 6990.7 | 6779.0 | 6436.7 | 5922.1 | 5476.8 | 5436.1 | 5372.5 | 5503.0 | 5251.8 |
| 40° | 7614.9 | 7598.5 | 7540.4 | 7348.4 | 7054.3 | 6664.9 | 6172.2 | 6102.1 | 5991.2 | 6107.6 | 5870.6 |
| 42.5° | 8154.8 | 8136.1 | 8146.0 | 7928.8 | 7680.8 | 7428.4 | 6983.1 | 6862.3 | 6797.6 | 6931.5 | 6629.8 |
| 45° | 8829.5 | 8819.6 | 8852.5 | 8663.8 | 8463.0 | 8279.8 | 7912.3 | 7780.7 | 7752.2 | 7909.0 | 7548.1 |
| 47.5° | 9495.5 | 9519.6 | 9621.6 | 9541.5 | 9460.3 | 9299.0 | 8896.4 | 8837.1 | 8854.7 | 9044.5 | 8516.8 |
| 50° | 10050.6 | 10079.1 | 10358.8 | 10451.0 | 10568.4 | 10474.0 | 10070.3 | 10034.1 | 10103.2 | 10274.3 | 9559.1 |
| 52.5° | 10452.1 | 10510.2 | 10858.0 | 11282.6 | 11710.5 | 11774.1 | 11371.5 | 11338.5 | 11431.8 | 11458.1 | 10364.3 |
| 55° | 10730.8 | 10782.3 | 11176.1 | 11953.0 | 12824.1 | 13098.3 | 12848.2 | 12720.9 | 12703.3 | 12443.3 | 11211.3 |
| 57.5° | 10780.1 | 10774.7 | 11340.8 | 12386.2 | 13697.3 | 14405.0 | 14247.0 | 14121.9 | 13762.0 | 13353.9 | 12182.2 |
| 60° | 10501.4 | 10533.3 | 11190.4 | 12536.6 | 14245.9 | 15393.5 | 15405.5 | 15243.1 | 14682.5 | 14239.3 | 13123.5 |
| 62.5° | 9643.6 | 9773.0 | 10436.7 | 12142.7 | 14239.3 | 15791.7 | 16254.7 | 16130.7 | 15460.3 | 14964.5 | 14078.0 |
| 65° | 8252.4 | 8298.5 | 8931.5 | 10793.3 | 13277.2 | 15624.9 | 17019.4 | 16973.3 | 16161.4 | 15668.8 | 14568.4 |
| 67.5° | 6026.4 | 5926.5 | 6591.4 | 8499.3 | 11240.9 | 14652.9 | 17567.9 | 17626.0 | 16702.3 | 15813.6 | 14046.2 |
| 68° | 5499.8 | 5529.4 | 6047.2 | 7932.0 | 10707.7 | 14309.5 | 17604.1 | 17693.0 | 16756.0 | 15719.3 | 13760.9 |
| 70° | 3278.1 | 3335.2 | 3797.1 | 5461.4 | 8146.0 | 12366.6 | 17213.5 | 17416.5 | 16435.7 | 14746.1 | 11902.5 |
| 72.5° | 837.1 | 905.1 | 1341.8 | 2444.4 | 4652.8 | 8713.1 | 14531.1 | 14874.5 | 14270.0 | 11962.7 | 8035.2 |
| 75° | 344.5 | 362.0 | 479.5 | 805.2 | 1733.4 | 3925.4 | 9577.7 | 10312.8 | 9892.6 | 7161.9 | 3631.5 |
| 77.5° | 238.1 | 250.1 | 308.2 | 446.5 | 750.5 | 1330.8 | 4695.6 | 5226.6 | 4708.8 | 2444.4 | 792.1 |
| 80° | 171.1 | 181.0 | 220.5 | 297.3 | 431.1 | 475.1 | 1530.4 | 1769.7 | 1405.4 | 536.5 | 196.4 |
| 82.5° | 102.0 | 109.7 | 164.6 | 211.7 | 262.2 | 227.1 | 380.7 | 432.2 | 407.0 | 266.6 | 87.8 |
| 85° | 50.5 | 59.2 | 110.8 | 151.4 | 141.5 | 95.5 | 116.3 | 129.5 | 160.1 | 162.4 | 47.1 |
| 87.5° | 3.3 | 6.6 | 64.7 | 91.1 | 39.5 | 22.0 | 34.0 | 41.7 | 57.0 | 80.1 | 19.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P383318

CATALOG NUMBER: GAN-SA6B-735-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2757.0 | 2757.0 | 2757.0 | 2757.0 | 2757.0 | 2757.0 | 2757.0 | 2757.0 | 2757.0 | 2757.0 | 2757.0 |
| 2.5° | 2764.7 | 2765.8 | 2758.1 | 2754.9 | 2757.0 | 2743.9 | 2738.4 | 2740.5 | 2740.5 | 2743.9 | 2738.4 |
| 5° | 2792.1 | 2792.1 | 2779.0 | 2761.4 | 2751.5 | 2726.3 | 2709.9 | 2705.5 | 2702.1 | 2700.0 | 2695.6 |
| 7.5° | 2851.4 | 2844.8 | 2821.8 | 2783.4 | 2750.4 | 2695.6 | 2653.9 | 2631.9 | 2621.0 | 2616.6 | 2613.3 |
| 10° | 2946.9 | 2934.7 | 2896.4 | 2825.0 | 2749.4 | 2651.7 | 2560.6 | 2495.9 | 2442.1 | 2420.2 | 2407.0 |
| 12.5° | 3075.1 | 3057.6 | 2992.9 | 2874.4 | 2741.6 | 2561.8 | 2364.3 | 2174.4 | 1997.8 | 1925.4 | 1889.2 |
| 15° | 3223.2 | 3198.1 | 3096.0 | 2916.1 | 2696.6 | 2358.8 | 1929.8 | 1597.4 | 1352.7 | 1260.6 | 1221.1 |
| 17.5° | 3373.6 | 3340.7 | 3186.0 | 2942.4 | 2561.8 | 1938.6 | 1353.8 | 1022.5 | 859.1 | 815.1 | 799.8 |
| 20° | 3525.0 | 3476.7 | 3263.9 | 2922.6 | 2256.8 | 1397.7 | 893.1 | 747.1 | 700.0 | 686.8 | 682.4 |
| 22.5° | 3668.7 | 3594.1 | 3334.1 | 2845.9 | 1787.2 | 938.0 | 706.6 | 660.5 | 645.1 | 637.5 | 635.2 |
| 25° | 3793.8 | 3689.6 | 3395.5 | 2608.9 | 1264.9 | 708.7 | 636.3 | 621.0 | 601.2 | 587.0 | 588.1 |
| 27.5° | 3911.2 | 3785.0 | 3432.8 | 2218.3 | 843.7 | 605.6 | 589.1 | 568.3 | 532.1 | 511.2 | 511.2 |
| 30° | 4052.7 | 3912.2 | 3460.2 | 1707.1 | 621.0 | 535.4 | 522.2 | 490.4 | 441.0 | 413.6 | 413.6 |
| 32.5° | 4265.6 | 4105.3 | 3442.7 | 1198.1 | 514.6 | 470.6 | 440.0 | 396.1 | 342.3 | 316.0 | 314.9 |
| 35° | 4591.4 | 4403.8 | 3317.6 | 785.5 | 454.2 | 409.2 | 359.9 | 306.1 | 258.9 | 237.0 | 235.9 |
| 37.5° | 5030.2 | 4803.2 | 3036.8 | 561.7 | 407.0 | 352.1 | 293.0 | 233.7 | 198.6 | 184.4 | 183.2 |
| 40° | 5599.6 | 5267.2 | 2635.3 | 455.3 | 363.1 | 297.3 | 226.0 | 181.0 | 156.9 | 145.9 | 147.0 |
| 42.5° | 6283.1 | 5764.1 | 2153.6 | 392.7 | 320.4 | 244.6 | 176.6 | 142.6 | 127.2 | 119.6 | 117.4 |
| 45° | 7042.3 | 6254.6 | 1648.9 | 350.0 | 277.6 | 197.5 | 138.2 | 113.0 | 101.0 | 96.5 | 96.5 |
| 47.5° | 7877.2 | 6731.8 | 1206.8 | 312.6 | 231.5 | 152.5 | 110.8 | 92.1 | 82.3 | 79.0 | 77.9 |
| 50° | 8635.3 | 7063.2 | 870.0 | 273.2 | 189.8 | 120.6 | 90.0 | 76.8 | 70.2 | 65.9 | 65.9 |
| 52.5° | 9267.2 | 7167.3 | 640.7 | 230.4 | 153.6 | 96.5 | 74.6 | 65.9 | 59.2 | 56.0 | 56.0 |
| 55° | 9823.4 | 7124.6 | 476.1 | 189.8 | 124.0 | 79.0 | 63.6 | 56.0 | 50.5 | 47.1 | 47.1 |
| 57.5° | 10356.7 | 6986.3 | 355.5 | 154.7 | 99.9 | 63.6 | 53.8 | 47.1 | 41.7 | 39.5 | 39.5 |
| 60° | 10792.2 | 6756.0 | 264.4 | 125.1 | 80.1 | 51.6 | 45.0 | 38.4 | 34.0 | 30.7 | 30.7 |
| 62.5° | 11145.4 | 6501.5 | 194.2 | 103.1 | 63.6 | 40.6 | 35.1 | 31.9 | 25.2 | 22.0 | 22.0 |
| 65° | 11147.6 | 6079.0 | 145.9 | 85.6 | 49.4 | 31.9 | 26.4 | 25.2 | 16.5 | 13.1 | 12.1 |
| 67.5° | 10341.3 | 5240.9 | 111.9 | 73.5 | 38.4 | 24.1 | 19.7 | 20.9 | 8.8 | 5.5 | 4.4 |
| 68° | 10048.3 | 5028.0 | 105.4 | 72.4 | 36.2 | 23.0 | 18.6 | 20.9 | 7.6 | 4.4 | 3.3 |
| 70° | 8471.8 | 4000.1 | 84.5 | 70.2 | 31.9 | 17.5 | 15.4 | 20.9 | 6.6 | 3.3 | 2.2 |
| 72.5° | 5418.6 | 2321.5 | 62.5 | 56.0 | 24.1 | 13.1 | 9.9 | 18.6 | 6.6 | 2.2 | 1.1 |
| 75° | 2306.1 | 719.7 | 42.8 | 39.5 | 14.3 | 9.9 | 6.6 | 12.1 | 4.4 | 1.1 | 0.0 |
| 77.5° | 486.0 | 162.4 | 25.2 | 24.1 | 9.9 | 6.6 | 4.4 | 3.3 | 1.1 | 0.0 | 0.0 |
| 80° | 125.1 | 47.1 | 13.1 | 12.1 | 5.5 | 3.3 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 39.5 | 18.6 | 7.6 | 5.5 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 19.7 | 11.0 | 4.4 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 11.0 | 3.3 | 1.1 | 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)