

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: P318367

Luminaire Tested: **GAN-SA3C-730-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318367  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3C-730-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19669 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

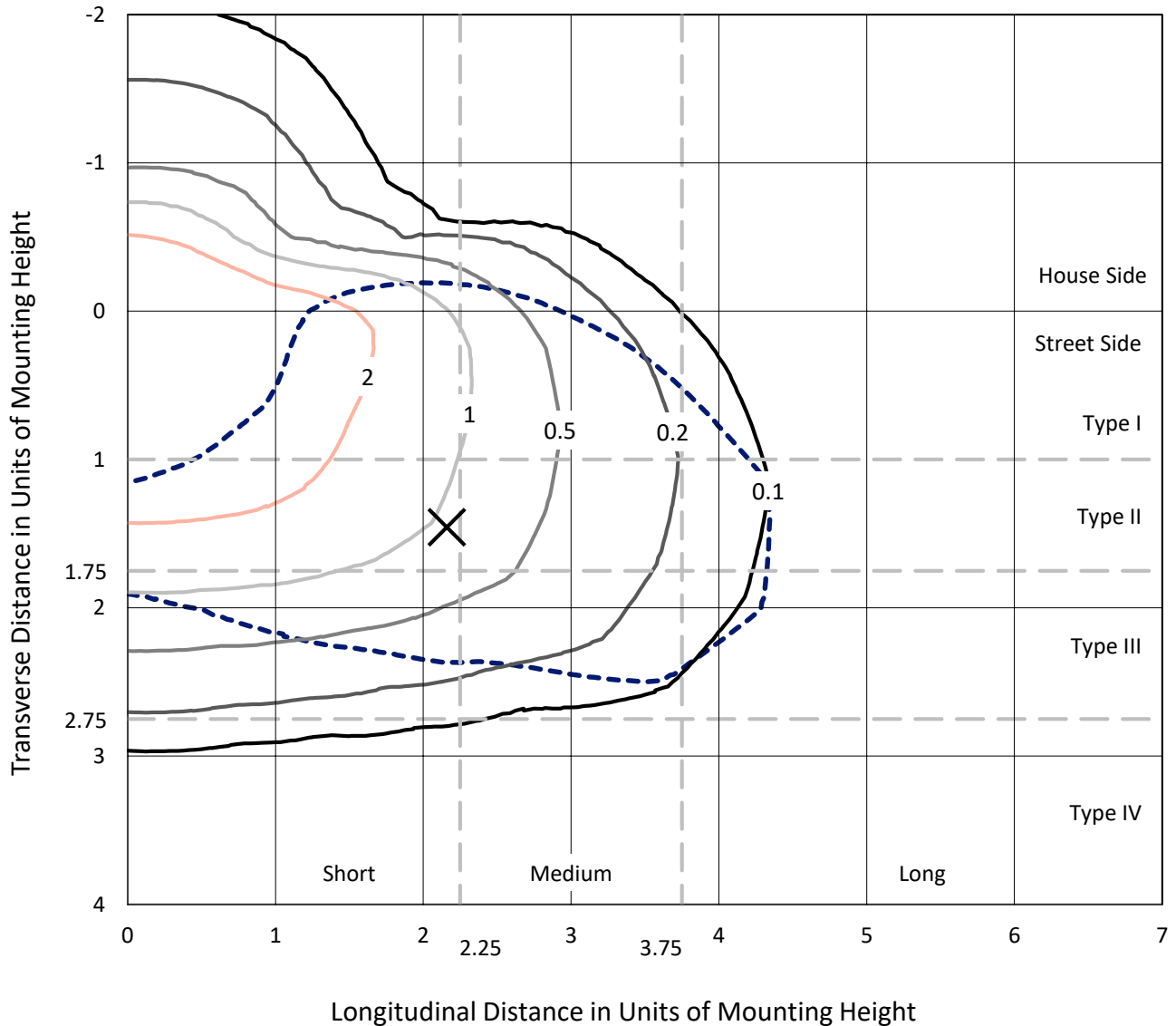
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P318367  
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### Iso-Footcandle Lines of Horizontal Illumination

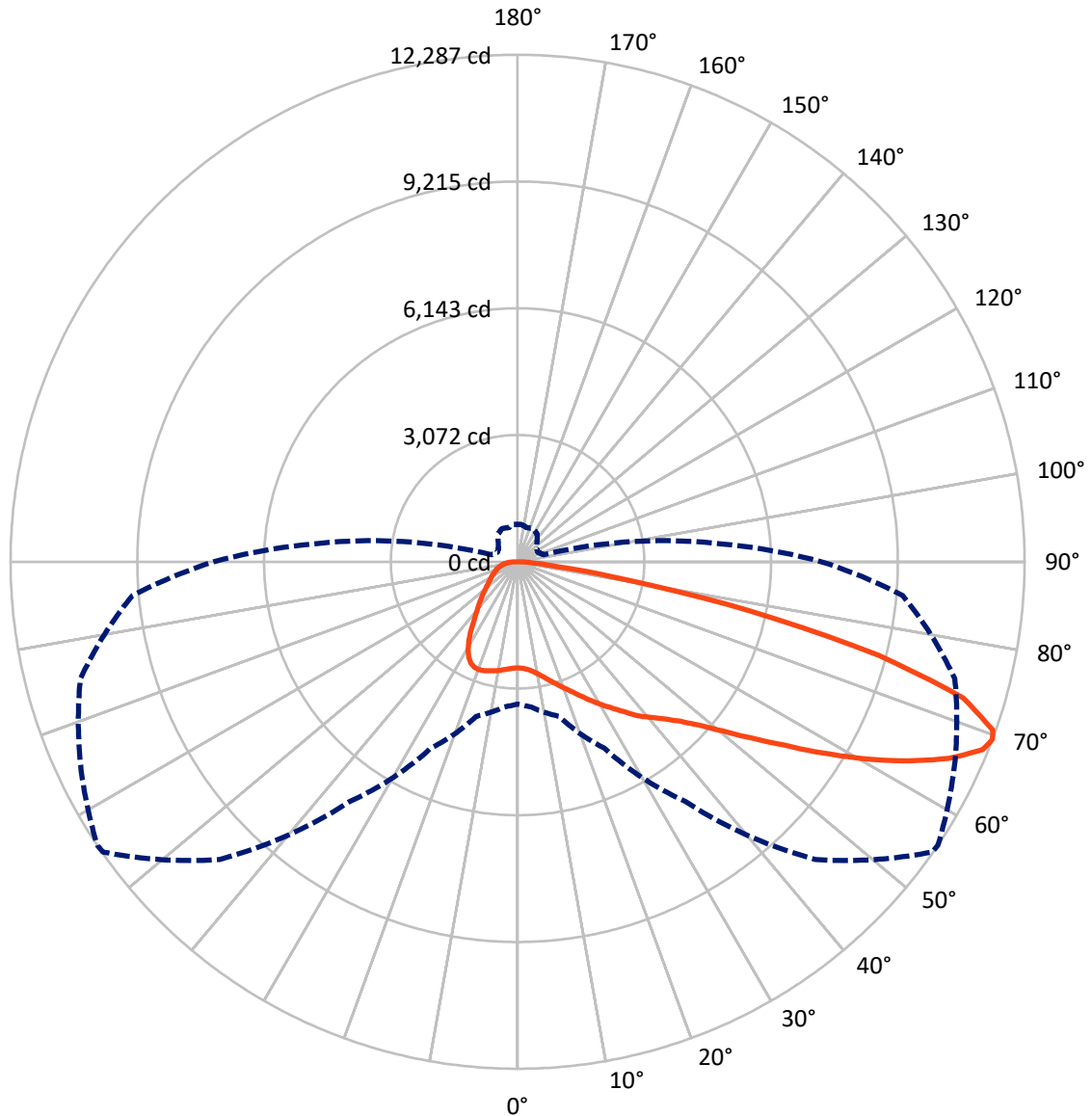
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type III - Short - N/A

REPORT NUMBER: P318367  
CATALOG NUMBER: GAN-SA3C-730-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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 CATALOG NUMBER: GAN-SA3C-730-U-T3

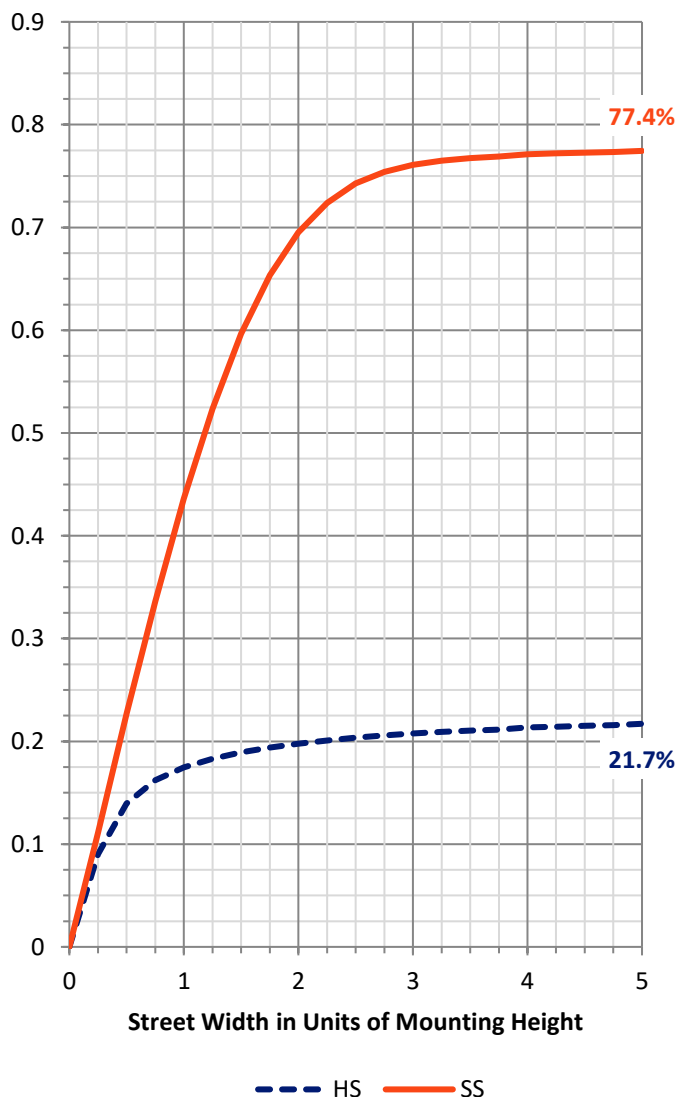
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4380.3   | 0.0    | 4380.3  |
|                    | % Fixture | 22.3     | 0.0    | 22.3    |
| <b>Street Side</b> | Lumens    | 15288.7  | 0.0    | 15288.7 |
|                    | % Fixture | 77.7     | 0.0    | 77.7    |
| <b>Total</b>       | Lumens    | 19669.0  | 0.0    | 19669.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 252.6   | 1.3       |
| 10°-20°   | 812.1   | 4.1       |
| 20°-30°   | 1417.6  | 7.2       |
| 30°-40°   | 2036.4  | 10.4      |
| 40°-50°   | 2818.3  | 14.3      |
| 50°-60°   | 4129.1  | 21.0      |
| 60°-70°   | 5034.2  | 25.6      |
| 70°-80°   | 2783.2  | 14.2      |
| 80°-90°   | 385.5   | 2.0       |
| 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°    | 19669.0 | 100.0     |
| 0°-180°   | 19669.0 | 100.0     |

**Coefficient of Utilization**

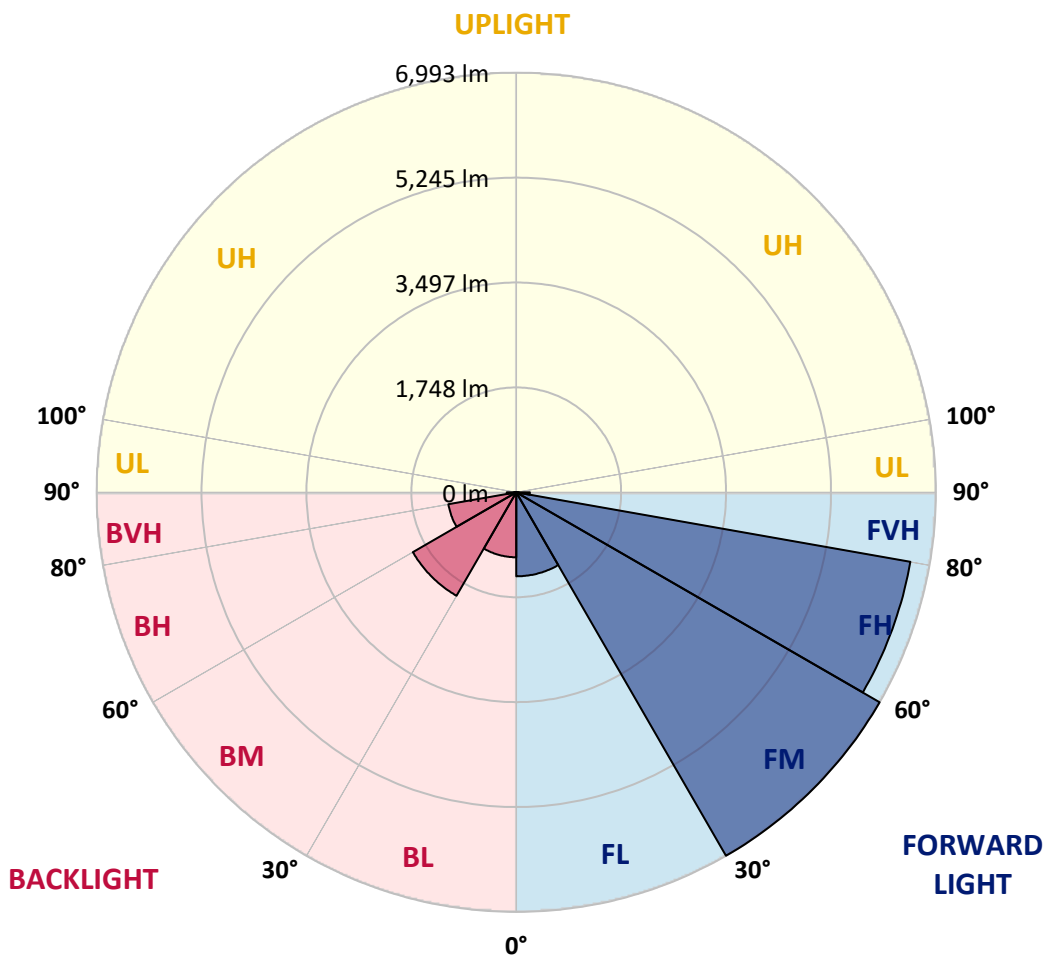


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 CATALOG NUMBER: GAN-SA3C-730-U-T3

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1399.8 | 7.1       |                         |      |         |
| FM (30°-60°)   | 6993.1 | 35.6      |                         |      |         |
| FH (60°-80°)   | 6668.8 | 33.9      |                         |      | G3/7500 |
| FVH (80°-90°)  | 227.1  | 1.2       |                         |      | G3/500  |
| BL (0°-30°)    | 1082.5 | 5.5       | B3/2500                 |      |         |
| BM (30°-60°)   | 1990.7 | 10.1      | B2/2500                 |      |         |
| BH (60°-80°)   | 1148.6 | 5.8       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 158.4  | 0.8       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**  
 Type III Short





REPORT NUMBER: P318367

CATALOG NUMBER: GAN-SA3C-730-U-T3

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 56°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 2571.4 | 2571.4 | 2571.4 | 2571.4 | 2571.4 | 2571.4  | 2571.4  | 2571.4  | 2571.4  | 2571.4  | 2571.4  |
| 2.5°  | 2587.7 | 2590.4 | 2588.4 | 2593.8 | 2587.7 | 2591.8  | 2588.4  | 2588.4  | 2586.3  | 2580.2  | 2573.5  |
| 5°    | 2628.3 | 2633.8 | 2630.4 | 2635.8 | 2628.3 | 2629.7  | 2623.6  | 2623.6  | 2617.5  | 2604.6  | 2591.1  |
| 7.5°  | 2692.0 | 2698.1 | 2695.4 | 2700.8 | 2690.7 | 2690.7  | 2682.5  | 2681.9  | 2669.7  | 2648.7  | 2633.1  |
| 10°   | 2767.9 | 2776.1 | 2773.3 | 2781.5 | 2773.3 | 2776.1  | 2767.9  | 2767.9  | 2751.7  | 2721.8  | 2702.2  |
| 12.5° | 2878.4 | 2888.5 | 2881.1 | 2880.4 | 2877.0 | 2882.4  | 2875.7  | 2874.3  | 2859.4  | 2818.7  | 2791.6  |
| 15°   | 3026.1 | 3036.9 | 3021.3 | 3020.0 | 3001.0 | 2999.0  | 2999.0  | 2996.9  | 2987.5  | 2938.7  | 2894.0  |
| 17.5° | 3196.2 | 3199.5 | 3186.0 | 3164.3 | 3139.9 | 3124.3  | 3122.3  | 3127.7  | 3127.7  | 3070.8  | 2999.7  |
| 20°   | 3362.8 | 3368.9 | 3358.1 | 3333.7 | 3302.5 | 3279.5  | 3263.2  | 3274.1  | 3273.4  | 3205.6  | 3104.7  |
| 22.5° | 3544.4 | 3558.7 | 3542.4 | 3511.2 | 3474.6 | 3448.9  | 3420.4  | 3429.9  | 3430.6  | 3347.3  | 3207.7  |
| 25°   | 3779.6 | 3766.7 | 3756.5 | 3712.5 | 3660.3 | 3633.9  | 3607.4  | 3616.9  | 3614.2  | 3499.7  | 3314.1  |
| 27.5° | 3987.6 | 3990.3 | 3976.7 | 3930.0 | 3869.7 | 3811.4  | 3810.0  | 3816.1  | 3806.0  | 3658.3  | 3414.3  |
| 30°   | 4229.5 | 4230.8 | 4211.9 | 4169.8 | 4104.1 | 4028.9  | 4011.3  | 4021.5  | 3999.8  | 3808.7  | 3520.0  |
| 32.5° | 4470.0 | 4476.8 | 4455.8 | 4405.0 | 4352.1 | 4260.6  | 4225.4  | 4232.2  | 4178.0  | 3962.5  | 3629.1  |
| 35°   | 4680.7 | 4690.2 | 4683.5 | 4649.6 | 4592.0 | 4513.4  | 4471.4  | 4467.3  | 4400.2  | 4150.9  | 3773.5  |
| 37.5° | 4895.5 | 4904.3 | 4896.9 | 4868.4 | 4845.4 | 4762.0  | 4739.7  | 4739.7  | 4623.1  | 4343.3  | 3957.1  |
| 40°   | 5116.4 | 5130.0 | 5121.2 | 5081.9 | 5062.2 | 5024.3  | 4970.7  | 4957.9  | 4831.8  | 4574.4  | 4256.6  |
| 42.5° | 5321.7 | 5339.4 | 5374.6 | 5351.5 | 5311.6 | 5317.0  | 5209.3  | 5202.5  | 5110.3  | 4915.9  | 4632.6  |
| 45°   | 5613.1 | 5638.8 | 5698.5 | 5680.9 | 5672.7 | 5642.9  | 5514.8  | 5508.7  | 5473.5  | 5375.3  | 5099.5  |
| 47.5° | 5930.9 | 5966.1 | 6073.8 | 6077.2 | 6164.6 | 6108.4  | 5934.3  | 5913.3  | 5921.4  | 5925.5  | 5669.3  |
| 50°   | 6223.6 | 6262.2 | 6439.1 | 6522.4 | 6728.4 | 6740.6  | 6462.1  | 6443.1  | 6475.0  | 6568.5  | 6333.4  |
| 52.5° | 6457.4 | 6506.1 | 6727.0 | 6984.5 | 7337.5 | 7437.8  | 7111.9  | 7097.7  | 7121.4  | 7282.7  | 7084.1  |
| 55°   | 6628.8 | 6681.6 | 6922.2 | 7391.1 | 7954.8 | 8131.7  | 7860.0  | 7846.4  | 7861.3  | 8066.6  | 7900.6  |
| 57.5° | 6668.8 | 6681.6 | 7030.6 | 7664.8 | 8475.9 | 8900.7  | 8775.4  | 8748.3  | 8675.1  | 8854.0  | 8801.8  |
| 60°   | 6481.1 | 6532.6 | 6941.2 | 7761.0 | 8879.0 | 9658.9  | 9732.1  | 9698.2  | 9492.9  | 9639.3  | 9597.3  |
| 62.5° | 6100.3 | 6192.4 | 6607.1 | 7614.7 | 9036.9 | 10278.2 | 10670.6 | 10629.9 | 10276.2 | 10371.1 | 10169.2 |
| 65°   | 5478.3 | 5517.6 | 5953.2 | 7109.9 | 8836.4 | 10674.6 | 11507.4 | 11487.1 | 11041.9 | 10893.5 | 10274.9 |
| 67.5° | 4365.7 | 4439.5 | 4809.5 | 6054.9 | 8015.8 | 10627.9 | 12154.5 | 12152.4 | 11541.9 | 11087.3 | 9900.2  |
| 69°   | 3448.9 | 3525.5 | 3877.8 | 4987.7 | 7092.9 | 10200.3 | 12262.9 | 12286.6 | 11682.9 | 10969.4 | 9364.9  |
| 70°   | 2749.6 | 2838.4 | 3080.3 | 4201.0 | 6273.7 | 9636.6  | 12172.8 | 12215.5 | 11655.8 | 10774.9 | 8870.9  |
| 72.5° | 1170.2 | 1242.0 | 1414.1 | 2165.6 | 3823.6 | 7195.9  | 11130.0 | 11291.2 | 11027.7 | 9861.5  | 7331.4  |
| 75°   | 510.9  | 533.3  | 611.2  | 882.9  | 1697.3 | 3916.4  | 8719.1  | 9017.3  | 9429.2  | 8335.6  | 5461.3  |
| 77.5° | 374.0  | 383.5  | 426.2  | 518.4  | 761.6  | 1479.2  | 5607.0  | 5780.5  | 6800.2  | 6065.7  | 3350.0  |
| 80°   | 289.3  | 296.1  | 329.3  | 380.8  | 497.3  | 598.3   | 2557.2  | 2706.3  | 3823.6  | 3115.5  | 1395.1  |
| 82.5° | 230.4  | 235.1  | 258.2  | 280.5  | 343.5  | 362.5   | 849.0   | 941.8   | 1411.4  | 860.5   | 369.3   |
| 85°   | 214.1  | 219.5  | 227.7  | 204.6  | 220.2  | 212.8   | 367.2   | 384.2   | 426.2   | 338.1   | 154.5   |
| 87.5° | 96.9   | 114.5  | 225.6  | 159.2  | 117.2  | 93.5    | 150.4   | 157.2   | 176.8   | 177.5   | 68.4    |
| 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-SA3C-730-U-T3

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2571.4 | 2571.4 | 2571.4 | 2571.4 | 2571.4 | 2571.4 | 2571.4 | 2571.4 | 2571.4 | 2571.4 | 2571.4 |
| 2.5°  | 2577.5 | 2575.5 | 2578.9 | 2570.7 | 2580.9 | 2580.2 | 2576.8 | 2578.2 | 2585.0 | 2584.3 | 2585.0 |
| 5°    | 2593.1 | 2591.8 | 2595.8 | 2589.7 | 2601.9 | 2606.0 | 2606.7 | 2612.8 | 2620.2 | 2622.2 | 2622.2 |
| 7.5°  | 2632.4 | 2632.4 | 2634.4 | 2626.3 | 2634.4 | 2633.8 | 2630.4 | 2636.5 | 2643.9 | 2644.6 | 2643.9 |
| 10°   | 2700.2 | 2700.8 | 2697.5 | 2676.5 | 2669.7 | 2651.4 | 2634.4 | 2635.1 | 2644.6 | 2652.1 | 2654.1 |
| 12.5° | 2785.5 | 2782.8 | 2767.9 | 2729.3 | 2700.8 | 2663.6 | 2646.0 | 2645.3 | 2654.8 | 2660.9 | 2662.9 |
| 15°   | 2883.1 | 2875.7 | 2837.0 | 2774.0 | 2723.9 | 2687.3 | 2658.8 | 2652.1 | 2646.6 | 2639.9 | 2640.5 |
| 17.5° | 2975.3 | 2958.3 | 2894.0 | 2806.5 | 2753.7 | 2704.9 | 2650.0 | 2606.0 | 2575.5 | 2557.9 | 2552.5 |
| 20°   | 3068.8 | 3035.6 | 2942.7 | 2837.0 | 2770.0 | 2681.2 | 2575.5 | 2486.1 | 2430.5 | 2404.7 | 2400.0 |
| 22.5° | 3154.1 | 3100.6 | 2988.1 | 2868.9 | 2757.1 | 2601.2 | 2435.2 | 2305.1 | 2227.9 | 2193.3 | 2196.0 |
| 25°   | 3237.5 | 3163.0 | 3035.6 | 2891.2 | 2692.0 | 2460.3 | 2240.1 | 2080.2 | 1990.7 | 1952.1 | 1950.8 |
| 27.5° | 3310.7 | 3226.0 | 3087.1 | 2872.9 | 2570.7 | 2259.7 | 2009.0 | 1853.2 | 1778.7 | 1745.5 | 1740.0 |
| 30°   | 3394.7 | 3305.2 | 3155.5 | 2803.2 | 2393.2 | 2028.0 | 1783.4 | 1673.6 | 1620.8 | 1587.6 | 1581.5 |
| 32.5° | 3497.0 | 3413.0 | 3211.7 | 2676.5 | 2166.2 | 1786.1 | 1607.2 | 1530.7 | 1482.6 | 1445.3 | 1438.5 |
| 35°   | 3646.1 | 3555.3 | 3226.0 | 2494.9 | 1916.9 | 1595.0 | 1477.8 | 1399.2 | 1334.2 | 1286.1 | 1281.3 |
| 37.5° | 3833.1 | 3733.5 | 3193.4 | 2259.7 | 1675.0 | 1471.0 | 1370.1 | 1273.2 | 1188.5 | 1120.7 | 1109.9 |
| 40°   | 4102.8 | 3952.3 | 3103.3 | 1988.7 | 1496.8 | 1375.5 | 1265.0 | 1154.6 | 1049.6 | 970.3  | 954.7  |
| 42.5° | 4426.6 | 4209.1 | 2965.1 | 1719.0 | 1366.0 | 1278.6 | 1160.7 | 1023.8 | 923.5  | 867.3  | 859.2  |
| 45°   | 4838.6 | 4476.1 | 2773.3 | 1483.2 | 1237.3 | 1181.7 | 1048.2 | 922.2  | 859.9  | 818.5  | 811.7  |
| 47.5° | 5308.9 | 4775.6 | 2572.1 | 1291.5 | 1128.2 | 1090.9 | 958.1  | 876.8  | 827.3  | 794.8  | 788.7  |
| 50°   | 5886.8 | 5113.7 | 2358.7 | 1134.3 | 1018.4 | 981.8  | 915.4  | 851.7  | 812.4  | 787.4  | 781.3  |
| 52.5° | 6538.7 | 5495.2 | 2204.9 | 1010.3 | 927.6  | 901.2  | 893.1  | 838.2  | 806.3  | 787.4  | 781.3  |
| 55°   | 7240.6 | 5883.4 | 2038.8 | 905.9  | 849.0  | 856.5  | 878.1  | 839.5  | 817.8  | 794.8  | 786.0  |
| 57.5° | 7943.3 | 6284.6 | 1853.9 | 817.8  | 786.7  | 823.3  | 868.0  | 842.2  | 823.9  | 801.6  | 793.4  |
| 60°   | 8498.9 | 6538.7 | 1567.2 | 744.0  | 737.2  | 786.7  | 843.6  | 821.9  | 798.2  | 798.9  | 797.5  |
| 62.5° | 8758.4 | 6525.1 | 1250.8 | 678.3  | 687.7  | 737.2  | 804.3  | 790.1  | 770.4  | 796.8  | 798.9  |
| 65°   | 8612.8 | 6199.9 | 973.7  | 618.6  | 634.9  | 685.7  | 763.6  | 774.5  | 781.3  | 832.1  | 838.8  |
| 67.5° | 8001.6 | 5567.0 | 754.1  | 566.5  | 586.8  | 650.5  | 767.7  | 843.6  | 852.4  | 905.9  | 905.3  |
| 69°   | 7369.4 | 4973.5 | 655.2  | 539.4  | 563.1  | 659.3  | 820.6  | 887.6  | 854.4  | 911.3  | 903.2  |
| 70°   | 6839.5 | 4503.9 | 602.4  | 521.1  | 552.2  | 674.9  | 855.8  | 887.0  | 844.3  | 893.1  | 879.5  |
| 72.5° | 5267.5 | 3240.2 | 510.9  | 487.2  | 515.6  | 645.7  | 866.0  | 867.3  | 820.6  | 830.0  | 807.0  |
| 75°   | 3612.9 | 2047.7 | 445.8  | 441.1  | 460.1  | 582.0  | 833.4  | 828.7  | 758.9  | 745.3  | 726.4  |
| 77.5° | 1992.1 | 1040.1 | 378.8  | 397.1  | 409.9  | 515.6  | 757.5  | 750.8  | 693.2  | 664.7  | 657.9  |
| 80°   | 768.4  | 455.3  | 319.8  | 353.0  | 361.2  | 446.5  | 664.0  | 657.9  | 609.8  | 573.2  | 563.1  |
| 82.5° | 290.0  | 238.5  | 264.3  | 305.6  | 302.9  | 368.6  | 562.4  | 559.0  | 512.3  | 458.7  | 442.5  |
| 85°   | 134.2  | 143.0  | 209.4  | 252.1  | 232.4  | 273.1  | 449.9  | 456.0  | 399.1  | 335.4  | 335.4  |
| 87.5° | 56.9   | 80.0   | 148.4  | 190.4  | 156.5  | 184.3  | 330.0  | 315.1  | 289.3  | 200.6  | 188.4  |
| 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)