

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: P324212

Luminaire Tested: **GAN-SA8C-750-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324212  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8C-750-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42025 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

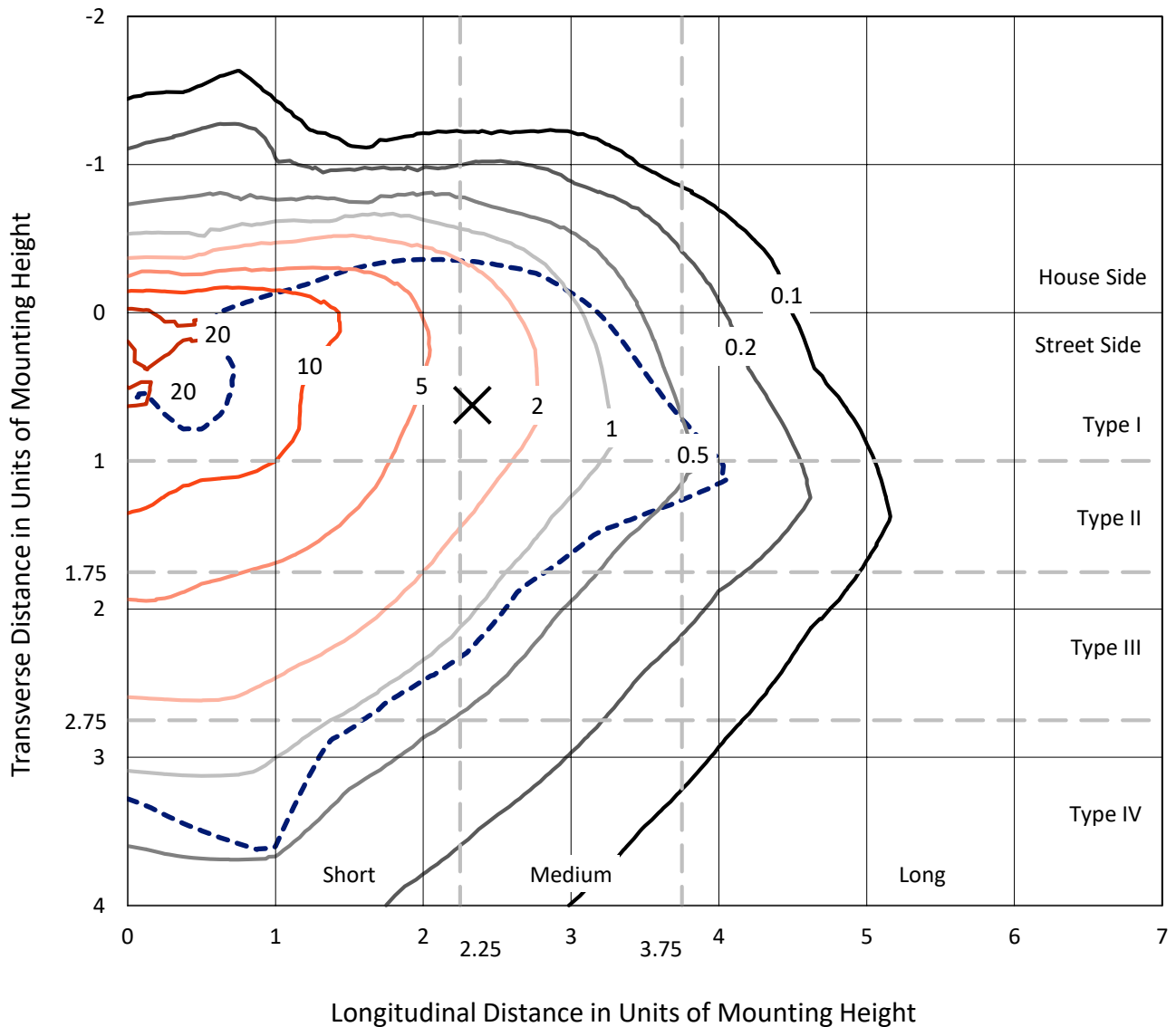
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

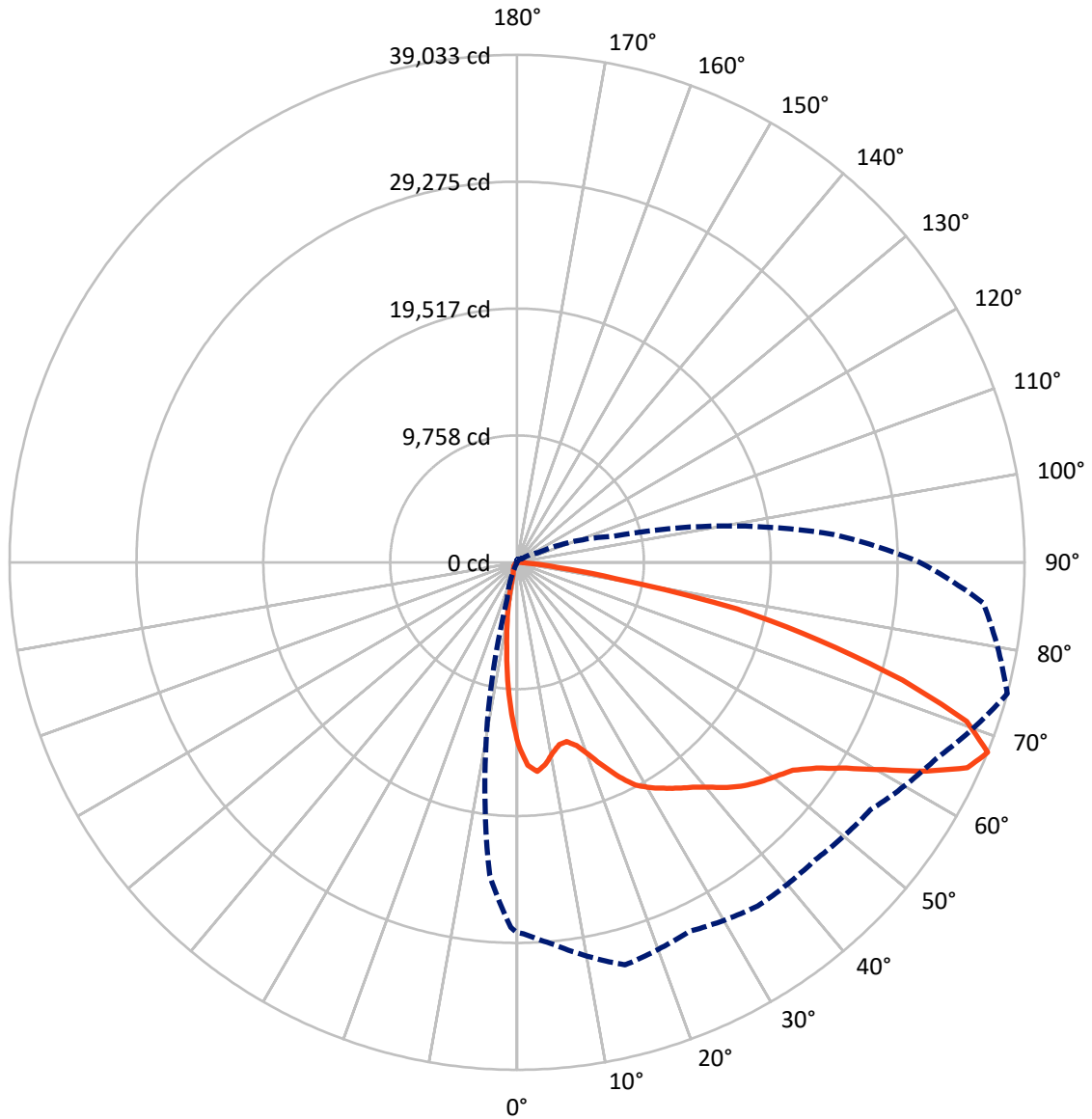
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6306.3   | 0.0    | 6306.3  |
|                    | % Fixture | 15.0     | 0.0    | 15.0    |
| <b>Street Side</b> | Lumens    | 35718.7  | 0.0    | 35718.7 |
|                    | % Fixture | 85.0     | 0.0    | 85.0    |
| <b>Total</b>       | Lumens    | 42025.0  | 0.0    | 42025.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1069.4  | 2.5       |
| 10°-20°   | 2105.8  | 5.0       |
| 20°-30°   | 2979.0  | 7.1       |
| 30°-40°   | 4380.0  | 10.4      |
| 40°-50°   | 6295.6  | 15.0      |
| 50°-60°   | 8862.5  | 21.1      |
| 60°-70°   | 10350.6 | 24.6      |
| 70°-80°   | 5280.5  | 12.6      |
| 80°-90°   | 701.5   | 1.7       |
| 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°    | 42025.0 | 100.0     |
| 0°-180°   | 42025.0 | 100.0     |

**Coefficient of Utilization**

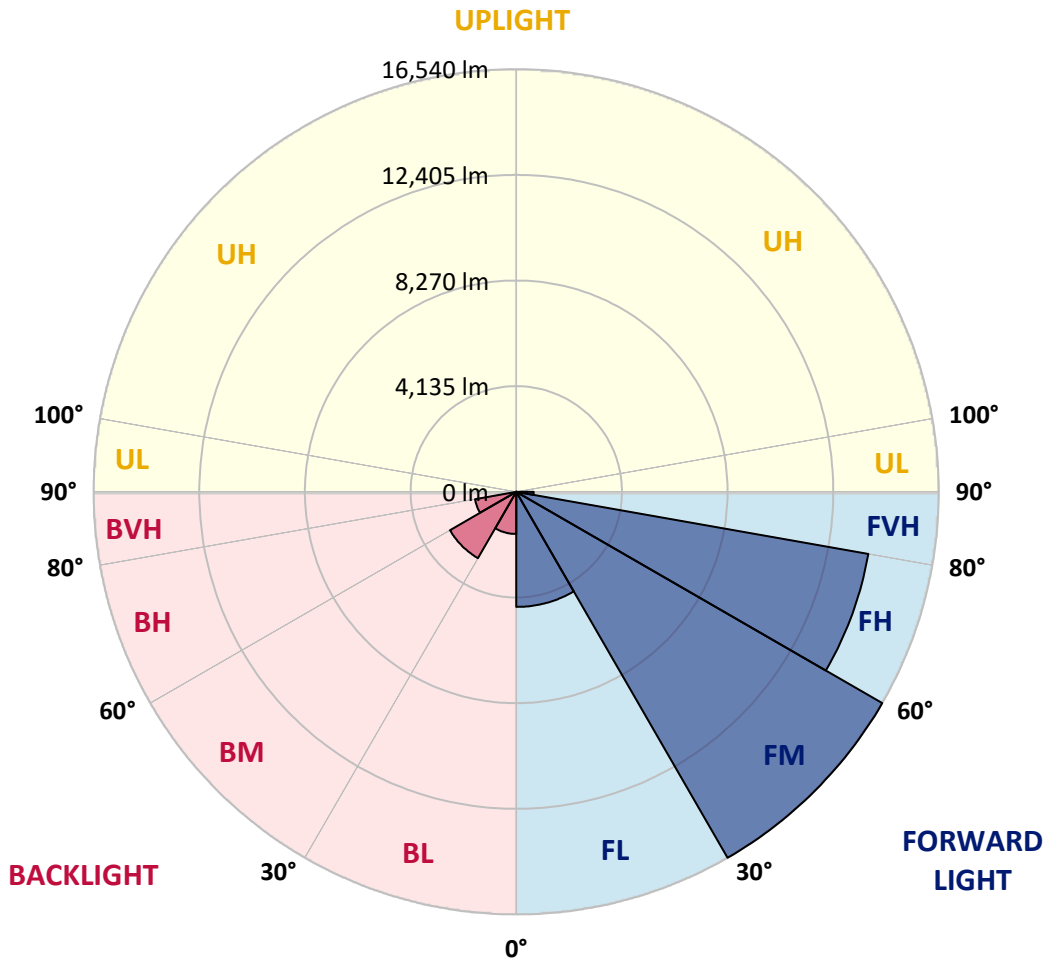


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4505.1  | 10.7      |                         |      |         |
| FM (30°-60°)   | 16540.3 | 39.4      |                         |      |         |
| FH (60°-80°)   | 13993.1 | 33.3      |                         |      | G5      |
| FVH (80°-90°)  | 680.2   | 1.6       |                         |      | G4/750  |
| BL (0°-30°)    | 1649.2  | 3.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 2997.8  | 7.1       | B3/5000                 |      |         |
| BH (60°-80°)   | 1638.0  | 3.9       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 21.3    | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**  
 Type III Medium





REPORT NUMBER: P324212

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 |
| 2.5°  | 15283.2 | 15307.1 | 15430.5 | 15717.2 | 16029.7 | 16053.6 | 16264.6 | 16047.6 | 15974.0 | 15623.6 | 15261.3 |
| 5°    | 15398.6 | 15490.2 | 15914.3 | 16756.4 | 17487.0 | 17721.9 | 17889.1 | 17463.1 | 17015.2 | 16159.1 | 15245.4 |
| 7.5°  | 14469.0 | 14622.2 | 15289.2 | 16869.8 | 18175.8 | 18753.1 | 18862.6 | 18195.7 | 17098.8 | 15689.3 | 14315.7 |
| 10°   | 13278.5 | 13453.7 | 14257.9 | 16200.9 | 17994.6 | 18984.0 | 19135.3 | 18261.4 | 16684.7 | 14928.8 | 13310.3 |
| 12.5° | 12314.9 | 12520.0 | 13342.2 | 15448.4 | 17371.5 | 18466.4 | 18765.0 | 18040.4 | 16326.3 | 14389.3 | 12623.5 |
| 15°   | 11871.0 | 12105.9 | 12969.9 | 14962.7 | 16680.7 | 17542.7 | 17789.6 | 17477.0 | 16127.3 | 14303.7 | 12464.2 |
| 17.5° | 12125.8 | 12380.6 | 13272.5 | 15004.5 | 16031.7 | 16400.0 | 16599.1 | 16726.5 | 16127.3 | 14819.3 | 12930.1 |
| 20°   | 13171.0 | 13445.7 | 14389.3 | 15428.5 | 15494.2 | 15356.8 | 15569.9 | 16017.8 | 16314.4 | 15798.8 | 14048.9 |
| 22.5° | 14616.3 | 14938.8 | 16003.8 | 16155.1 | 15231.4 | 14711.8 | 14739.7 | 15442.4 | 16654.8 | 17041.0 | 15601.7 |
| 25°   | 16378.1 | 16772.3 | 17855.3 | 17238.1 | 15340.9 | 14327.6 | 14317.7 | 14968.6 | 16987.3 | 18285.3 | 17331.7 |
| 27.5° | 18128.0 | 18562.0 | 19513.6 | 18560.0 | 15792.8 | 14257.9 | 14238.0 | 14825.3 | 17311.8 | 19392.1 | 19220.9 |
| 30°   | 19595.2 | 20017.2 | 20837.4 | 19517.6 | 16280.6 | 14421.2 | 14325.6 | 14978.6 | 17504.9 | 20110.8 | 20598.5 |
| 32.5° | 20789.7 | 21128.1 | 21791.0 | 20176.5 | 16802.1 | 14737.7 | 14530.7 | 15388.7 | 17833.4 | 20718.0 | 21864.7 |
| 35°   | 22103.6 | 22459.9 | 22724.7 | 20803.6 | 17387.4 | 15193.6 | 14897.0 | 16039.7 | 18339.0 | 21335.1 | 23252.3 |
| 37.5° | 23602.6 | 23957.0 | 23925.1 | 21376.9 | 18130.0 | 15948.1 | 15759.0 | 17070.9 | 19125.4 | 21946.3 | 24801.1 |
| 40°   | 25069.8 | 25432.2 | 25173.4 | 22004.0 | 19001.9 | 17192.3 | 17053.0 | 18619.7 | 20178.5 | 22728.7 | 26616.7 |
| 42.5° | 26443.5 | 26835.6 | 26282.2 | 22597.3 | 20041.1 | 18761.1 | 19000.0 | 20614.5 | 21496.4 | 23692.2 | 28181.4 |
| 45°   | 27550.3 | 27950.5 | 27211.9 | 23174.6 | 21136.1 | 20664.2 | 21382.9 | 22824.2 | 23081.0 | 24506.4 | 29238.5 |
| 47.5° | 28354.6 | 28732.9 | 27856.9 | 23751.9 | 22537.6 | 22991.5 | 24243.7 | 25141.5 | 24512.4 | 25213.2 | 29989.0 |
| 50°   | 28868.2 | 29162.9 | 28046.0 | 24474.6 | 24377.0 | 25706.9 | 27223.8 | 27661.8 | 25860.2 | 25850.2 | 30900.8 |
| 52.5° | 29194.7 | 29328.1 | 28185.4 | 25229.1 | 26296.1 | 28663.2 | 30142.3 | 30279.7 | 27247.7 | 26551.0 | 32129.1 |
| 55°   | 30319.5 | 30427.0 | 29172.8 | 26142.9 | 27882.8 | 31253.2 | 32782.1 | 32654.7 | 28818.5 | 27922.6 | 33578.4 |
| 57.5° | 32238.6 | 32352.1 | 31213.4 | 27456.8 | 29166.8 | 32853.8 | 34695.2 | 34924.2 | 30659.9 | 29849.7 | 35131.2 |
| 60°   | 33202.1 | 33413.2 | 33007.0 | 29121.1 | 30411.1 | 33877.0 | 35999.2 | 36729.8 | 32961.3 | 32389.9 | 36636.2 |
| 62.5° | 32328.2 | 32634.8 | 33224.0 | 30966.5 | 31647.4 | 34440.4 | 36405.3 | 37376.8 | 35318.3 | 35350.2 | 37563.9 |
| 65°   | 30584.3 | 30829.1 | 31828.5 | 31977.8 | 32364.0 | 34370.7 | 35402.0 | 36473.0 | 36761.7 | 38069.6 | 37514.2 |
| 67.5° | 28478.0 | 28569.6 | 29417.7 | 32057.5 | 31324.8 | 32276.4 | 32387.9 | 33180.2 | 35620.9 | 39033.1 | 36007.1 |
| 70°   | 25446.1 | 25495.9 | 26236.4 | 29391.8 | 26919.3 | 27128.3 | 26963.1 | 27124.3 | 30624.1 | 36686.0 | 32202.8 |
| 72.5° | 20479.1 | 20604.5 | 21657.6 | 24408.9 | 19611.1 | 19007.9 | 20305.9 | 20234.2 | 23584.7 | 30994.4 | 23917.2 |
| 75°   | 15078.1 | 15295.1 | 16885.8 | 19660.9 | 13764.2 | 12450.3 | 13397.9 | 13650.7 | 16766.3 | 23974.9 | 14956.7 |
| 77.5° | 10557.1 | 10718.3 | 12259.2 | 14453.0 | 9961.8  | 8902.7  | 8560.3  | 8860.9  | 11066.7 | 17343.6 | 7535.1  |
| 80°   | 6081.8  | 6141.5  | 7125.0  | 8345.3  | 6712.9  | 7680.4  | 6957.8  | 7164.8  | 6631.3  | 7716.2  | 3241.0  |
| 82.5° | 3979.6  | 3989.5  | 4373.7  | 4967.0  | 4180.6  | 4857.5  | 3595.3  | 4596.7  | 4079.1  | 3099.6  | 1055.1  |
| 85°   | 2150.0  | 2162.0  | 2536.2  | 3525.7  | 2367.0  | 1337.8  | 786.4   | 1614.5  | 2522.3  | 710.7   | 288.7   |
| 87.5° | 236.9   | 217.0   | 764.5   | 1282.1  | 657.0   | 121.4   | 41.8    | 181.2   | 404.1   | 45.8    | 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     |



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 CATALOG NUMBER: GAN-SA8C-750-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 |
| 2.5°  | 15076.1 | 14910.9 | 14498.8 | 14062.8 | 13712.5 | 13384.0 | 13053.5 | 12649.4 | 12336.8 | 12273.1 | 12169.6 |
| 5°    | 14753.6 | 14230.1 | 13366.1 | 12498.1 | 11799.3 | 10917.4 | 10358.0 | 9922.0  | 9496.0  | 9470.1  | 9384.5  |
| 7.5°  | 13626.9 | 12938.0 | 11721.7 | 10521.2 | 9537.8  | 8697.7  | 7849.6  | 7282.3  | 6836.3  | 6679.1  | 6585.5  |
| 10°   | 12543.9 | 11769.5 | 10250.5 | 8880.8  | 8002.9  | 7260.4  | 6663.1  | 6069.9  | 5532.4  | 5162.1  | 4994.9  |
| 12.5° | 11787.4 | 10931.3 | 9257.1  | 8076.6  | 7447.5  | 6742.8  | 6014.1  | 5273.6  | 4654.4  | 4208.5  | 3935.8  |
| 15°   | 11494.7 | 10581.0 | 8924.6  | 7758.1  | 6981.6  | 6089.8  | 5158.1  | 4312.0  | 3625.2  | 3221.1  | 2976.2  |
| 17.5° | 11843.1 | 10780.0 | 8898.8  | 7369.8  | 6284.9  | 5176.0  | 4146.8  | 3147.4  | 2500.4  | 2193.8  | 2036.6  |
| 20°   | 12727.0 | 11413.1 | 8888.8  | 6894.1  | 5456.7  | 4093.0  | 2809.0  | 2070.4  | 1678.2  | 1507.0  | 1433.4  |
| 22.5° | 13977.2 | 12221.4 | 8968.4  | 6424.2  | 4594.7  | 2924.4  | 1939.0  | 1521.0  | 1319.9  | 1228.3  | 1186.5  |
| 25°   | 15585.8 | 13356.1 | 9193.4  | 5998.2  | 3784.5  | 2181.9  | 1511.0  | 1274.1  | 1132.8  | 1061.1  | 1031.2  |
| 27.5° | 17299.8 | 14662.1 | 9543.8  | 5627.9  | 3125.5  | 1739.9  | 1294.0  | 1090.9  | 989.4   | 939.6   | 911.8   |
| 30°   | 18713.3 | 16175.0 | 9898.1  | 5215.8  | 2647.7  | 1517.0  | 1184.5  | 995.4   | 877.9   | 846.1   | 820.2   |
| 32.5° | 19949.6 | 17319.7 | 10149.0 | 4843.6  | 2335.2  | 1347.8  | 1071.0  | 889.9   | 810.2   | 748.5   | 720.7   |
| 35°   | 21229.6 | 18273.3 | 10141.0 | 4582.8  | 2120.2  | 1220.3  | 975.5   | 796.3   | 700.8   | 629.1   | 607.2   |
| 37.5° | 22615.2 | 19350.3 | 9967.8  | 4359.8  | 2026.6  | 1118.8  | 921.7   | 746.5   | 651.0   | 579.3   | 551.4   |
| 40°   | 24237.7 | 20481.1 | 9790.6  | 4150.8  | 2000.7  | 1037.2  | 883.9   | 706.7   | 605.2   | 535.5   | 507.6   |
| 42.5° | 25818.4 | 21500.4 | 9635.4  | 3995.5  | 1889.2  | 1035.2  | 850.1   | 676.9   | 569.4   | 501.7   | 469.8   |
| 45°   | 27082.5 | 22450.0 | 9605.5  | 3901.9  | 1771.8  | 1071.0  | 832.1   | 657.0   | 541.5   | 473.8   | 443.9   |
| 47.5° | 28133.6 | 23481.2 | 9796.6  | 3836.2  | 1660.3  | 977.5   | 875.9   | 643.0   | 515.6   | 449.9   | 416.1   |
| 50°   | 29383.8 | 24747.3 | 10246.5 | 3728.7  | 1542.9  | 879.9   | 1003.4  | 647.0   | 493.7   | 426.0   | 390.2   |
| 52.5° | 31127.8 | 26499.2 | 10907.5 | 3547.6  | 1381.6  | 790.3   | 987.4   | 651.0   | 469.8   | 400.1   | 364.3   |
| 55°   | 33082.7 | 28687.1 | 11618.2 | 3247.0  | 1156.6  | 672.9   | 846.1   | 623.1   | 424.0   | 372.3   | 338.4   |
| 57.5° | 35137.2 | 30671.9 | 12040.2 | 2888.6  | 919.7   | 581.3   | 676.9   | 567.4   | 374.3   | 334.5   | 312.6   |
| 60°   | 35459.7 | 31426.4 | 11847.1 | 2448.7  | 730.6   | 505.7   | 501.7   | 577.3   | 334.5   | 294.6   | 278.7   |
| 62.5° | 34657.4 | 30478.8 | 10913.4 | 2056.5  | 611.2   | 443.9   | 412.1   | 503.7   | 302.6   | 262.8   | 246.9   |
| 65°   | 33114.6 | 27916.6 | 9400.4  | 1853.4  | 567.4   | 380.2   | 342.4   | 354.4   | 264.8   | 228.9   | 215.0   |
| 67.5° | 30968.5 | 24496.5 | 7718.2  | 1737.9  | 561.4   | 326.5   | 292.6   | 268.8   | 228.9   | 199.1   | 187.1   |
| 70°   | 26580.8 | 20407.4 | 6157.5  | 1674.2  | 545.5   | 274.7   | 246.9   | 219.0   | 191.1   | 169.2   | 159.3   |
| 72.5° | 19563.3 | 14461.0 | 4789.8  | 1604.6  | 549.5   | 219.0   | 215.0   | 181.2   | 153.3   | 131.4   | 127.4   |
| 75°   | 11303.6 | 8261.7  | 3141.4  | 1300.0  | 523.6   | 169.2   | 179.2   | 127.4   | 107.5   | 91.6    | 91.6    |
| 77.5° | 6024.1  | 5038.7  | 1196.5  | 541.5   | 191.1   | 107.5   | 101.5   | 75.6    | 67.7    | 55.7    | 53.8    |
| 80°   | 2625.8  | 2217.7  | 360.3   | 151.3   | 105.5   | 57.7    | 37.8    | 33.8    | 29.9    | 23.9    | 21.9    |
| 82.5° | 929.7   | 802.3   | 117.5   | 73.7    | 45.8    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 211.0   | 151.3   | 0.0     | 17.9    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 0.0     | 0.0     | 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     |





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**CANDELA DISTRIBUTION (continued):**

|       | 185°    | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 |
| 2.5°  | 11958.6 | 11914.8 | 11656.0 | 11665.9 | 11711.7 | 11777.4 | 11622.1 | 11693.8 | 11886.9 | 12072.1 | 12141.7 |
| 5°    | 9247.2  | 9257.1  | 9099.8  | 9197.4  | 9285.0  | 9344.7  | 9093.9  | 9097.8  | 9251.1  | 9460.2  | 9569.7  |
| 7.5°  | 6515.8  | 6499.9  | 6507.8  | 6740.8  | 6906.0  | 6786.6  | 6880.1  | 6555.6  | 6575.5  | 6724.8  | 6613.4  |
| 10°   | 4843.6  | 4624.6  | 4501.1  | 4676.3  | 4857.5  | 4791.8  | 4630.5  | 4525.0  | 4598.7  | 4763.9  | 4752.0  |
| 12.5° | 3806.4  | 3491.8  | 3306.7  | 3181.3  | 3330.6  | 3207.1  | 3203.2  | 3111.6  | 3012.0  | 3030.0  | 3294.7  |
| 15°   | 2862.7  | 2633.8  | 2414.8  | 2213.7  | 2209.8  | 2168.0  | 1954.9  | 1716.0  | 1696.1  | 1708.1  | 1845.4  |
| 17.5° | 1968.9  | 1891.2  | 1801.7  | 1628.5  | 1582.7  | 1407.5  | 1200.4  | 1104.9  | 1057.1  | 1079.0  | 1124.8  |
| 20°   | 1383.6  | 1353.7  | 1363.7  | 1270.1  | 1204.4  | 1037.2  | 915.8   | 877.9   | 870.0   | 891.9   | 913.8   |
| 22.5° | 1146.7  | 1092.9  | 1087.0  | 1045.2  | 979.5   | 858.0   | 792.3   | 770.4   | 760.5   | 780.4   | 796.3   |
| 25°   | 1003.4  | 949.6   | 927.7   | 901.8   | 832.1   | 748.5   | 708.7   | 688.8   | 678.9   | 690.8   | 700.8   |
| 27.5° | 883.9   | 834.1   | 814.2   | 796.3   | 728.6   | 668.9   | 637.0   | 619.1   | 611.2   | 615.1   | 625.1   |
| 30°   | 794.3   | 750.5   | 724.6   | 702.7   | 645.0   | 603.2   | 575.3   | 557.4   | 549.5   | 549.5   | 559.4   |
| 32.5° | 700.8   | 676.9   | 653.0   | 625.1   | 571.4   | 543.5   | 515.6   | 495.7   | 487.7   | 489.7   | 497.7   |
| 35°   | 583.3   | 575.3   | 581.3   | 555.4   | 509.6   | 485.7   | 457.9   | 436.0   | 430.0   | 432.0   | 440.0   |
| 37.5° | 517.6   | 481.8   | 503.7   | 489.7   | 463.9   | 432.0   | 396.2   | 376.3   | 366.3   | 372.3   | 376.3   |
| 40°   | 475.8   | 432.0   | 416.1   | 430.0   | 426.0   | 374.3   | 342.4   | 322.5   | 314.5   | 316.5   | 320.5   |
| 42.5° | 440.0   | 388.2   | 352.4   | 350.4   | 374.3   | 326.5   | 292.6   | 274.7   | 264.8   | 264.8   | 268.8   |
| 45°   | 406.1   | 350.4   | 306.6   | 272.7   | 314.5   | 276.7   | 244.9   | 228.9   | 217.0   | 217.0   | 219.0   |
| 47.5° | 380.2   | 318.5   | 266.8   | 223.0   | 236.9   | 226.9   | 201.1   | 185.1   | 173.2   | 173.2   | 175.2   |
| 50°   | 356.3   | 286.7   | 230.9   | 187.1   | 177.2   | 187.1   | 163.2   | 145.3   | 137.4   | 135.4   | 139.4   |
| 52.5° | 330.5   | 254.8   | 197.1   | 159.3   | 139.4   | 141.3   | 127.4   | 115.5   | 105.5   | 105.5   | 109.5   |
| 55°   | 304.6   | 228.9   | 171.2   | 135.4   | 115.5   | 105.5   | 101.5   | 93.6    | 85.6    | 85.6    | 89.6    |
| 57.5° | 278.7   | 201.1   | 145.3   | 111.5   | 91.6    | 83.6    | 83.6    | 77.6    | 71.7    | 71.7    | 75.6    |
| 60°   | 254.8   | 173.2   | 119.4   | 91.6    | 71.7    | 69.7    | 71.7    | 65.7    | 61.7    | 61.7    | 65.7    |
| 62.5° | 226.9   | 147.3   | 97.5    | 75.6    | 57.7    | 55.7    | 61.7    | 57.7    | 53.8    | 53.8    | 57.7    |
| 65°   | 193.1   | 125.4   | 77.6    | 57.7    | 43.8    | 43.8    | 51.8    | 47.8    | 43.8    | 43.8    | 47.8    |
| 67.5° | 163.2   | 105.5   | 59.7    | 41.8    | 31.9    | 33.8    | 43.8    | 39.8    | 37.8    | 37.8    | 41.8    |
| 70°   | 135.4   | 81.6    | 41.8    | 25.9    | 17.9    | 25.9    | 33.8    | 33.8    | 33.8    | 33.8    | 37.8    |
| 72.5° | 101.5   | 55.7    | 23.9    | 10.0    | 8.0     | 17.9    | 27.9    | 31.9    | 29.9    | 29.9    | 35.8    |
| 75°   | 65.7    | 31.9    | 8.0     | 0.0     | 0.0     | 10.0    | 21.9    | 25.9    | 25.9    | 23.9    | 29.9    |
| 77.5° | 37.8    | 10.0    | 0.0     | 0.0     | 0.0     | 0.0     | 13.9    | 11.9    | 10.0    | 8.0     | 13.9    |
| 80°   | 10.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 82.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 0.0     | 0.0     | 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     |



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|       | 285°    | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 359°    | 360°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 | 14098.7 |
| 2.5°  | 12422.4 | 12657.3 | 12987.8 | 13338.2 | 13877.7 | 14305.7 | 14725.8 | 15086.1 | 15225.4 | 15283.2 |
| 5°    | 9832.4  | 10176.8 | 10660.6 | 11281.7 | 12255.2 | 13131.2 | 14019.0 | 14912.9 | 15301.1 | 15398.6 |
| 7.5°  | 7055.3  | 7495.3  | 8110.4  | 8888.8  | 10029.5 | 11164.3 | 12404.5 | 13716.4 | 14317.7 | 14469.0 |
| 10°   | 5221.8  | 5759.3  | 6464.0  | 7284.2  | 8373.2  | 9539.8  | 10891.5 | 12390.6 | 13077.4 | 13278.5 |
| 12.5° | 3704.8  | 4431.5  | 5375.1  | 6372.5  | 7316.1  | 8357.3  | 9724.9  | 11377.3 | 12097.9 | 12314.9 |
| 15°   | 2175.9  | 2878.7  | 3995.5  | 5331.3  | 6539.7  | 7594.8  | 8984.4  | 10857.7 | 11652.0 | 11871.0 |
| 17.5° | 1248.2  | 1598.6  | 2442.7  | 3931.8  | 5572.2  | 7033.4  | 8751.4  | 10987.1 | 11922.8 | 12125.8 |
| 20°   | 953.6   | 1065.1  | 1407.5  | 2532.3  | 4441.4  | 6482.0  | 8751.4  | 11719.7 | 12872.4 | 13171.0 |
| 22.5° | 834.1   | 915.8   | 1055.1  | 1511.0  | 3268.9  | 5890.7  | 8853.0  | 12778.8 | 14285.8 | 14616.3 |
| 25°   | 740.6   | 814.2   | 933.7   | 1136.7  | 2229.7  | 5188.0  | 9093.9  | 14078.8 | 15950.1 | 16378.1 |
| 27.5° | 662.9   | 732.6   | 840.1   | 995.4   | 1524.9  | 4339.9  | 9418.4  | 15603.7 | 17785.6 | 18128.0 |
| 30°   | 593.3   | 658.9   | 756.5   | 866.0   | 1176.5  | 3378.3  | 9695.1  | 17041.0 | 19226.9 | 19595.2 |
| 32.5° | 527.6   | 587.3   | 674.9   | 756.5   | 963.5   | 2498.4  | 9724.9  | 18179.8 | 20423.4 | 20789.7 |
| 35°   | 465.8   | 519.6   | 599.2   | 662.9   | 798.3   | 1972.9  | 9261.1  | 19167.2 | 21619.8 | 22103.6 |
| 37.5° | 406.1   | 457.9   | 527.6   | 575.3   | 702.7   | 1608.5  | 8552.4  | 20268.1 | 23154.7 | 23602.6 |
| 40°   | 350.4   | 396.2   | 467.8   | 499.7   | 664.9   | 1236.3  | 7781.9  | 21422.7 | 24659.7 | 25069.8 |
| 42.5° | 298.6   | 342.4   | 412.1   | 473.8   | 583.3   | 923.7   | 6949.8  | 22505.7 | 26013.5 | 26443.5 |
| 45°   | 248.8   | 294.6   | 364.3   | 501.7   | 483.8   | 690.8   | 6059.9  | 23224.4 | 27082.5 | 27550.3 |
| 47.5° | 201.1   | 252.8   | 348.4   | 477.8   | 386.2   | 507.6   | 5355.2  | 23905.2 | 27892.7 | 28354.6 |
| 50°   | 161.3   | 213.0   | 392.2   | 426.0   | 316.5   | 388.2   | 5060.6  | 24514.4 | 28424.3 | 28868.2 |
| 52.5° | 131.4   | 179.2   | 370.3   | 326.5   | 264.8   | 320.5   | 5219.8  | 25501.8 | 28916.0 | 29194.7 |
| 55°   | 109.5   | 141.3   | 223.0   | 226.9   | 225.0   | 272.7   | 5416.9  | 26919.3 | 30188.1 | 30319.5 |
| 57.5° | 95.6    | 113.5   | 155.3   | 175.2   | 189.1   | 242.9   | 5420.9  | 28953.8 | 32157.0 | 32238.6 |
| 60°   | 81.6    | 99.5    | 129.4   | 141.3   | 163.2   | 217.0   | 5223.8  | 29664.5 | 32931.4 | 33202.1 |
| 62.5° | 71.7    | 87.6    | 107.5   | 117.5   | 137.4   | 195.1   | 4761.9  | 28635.3 | 31868.3 | 32328.2 |
| 65°   | 63.7    | 79.6    | 89.6    | 99.5    | 121.4   | 175.2   | 4001.5  | 26576.8 | 30104.5 | 30584.3 |
| 67.5° | 55.7    | 69.7    | 79.6    | 89.6    | 109.5   | 155.3   | 2946.3  | 24185.9 | 28079.9 | 28478.0 |
| 70°   | 49.8    | 61.7    | 71.7    | 79.6    | 95.6    | 131.4   | 1787.7  | 20522.9 | 25280.9 | 25446.1 |
| 72.5° | 47.8    | 55.7    | 65.7    | 71.7    | 83.6    | 115.5   | 905.8   | 15082.1 | 20210.3 | 20479.1 |
| 75°   | 41.8    | 49.8    | 59.7    | 63.7    | 73.7    | 99.5    | 368.3   | 9906.1  | 14646.1 | 15078.1 |
| 77.5° | 33.8    | 45.8    | 53.8    | 57.7    | 63.7    | 81.6    | 187.1   | 6330.7  | 10278.4 | 10557.1 |
| 80°   | 11.9    | 33.8    | 45.8    | 47.8    | 53.8    | 59.7    | 123.4   | 3465.9  | 5962.4  | 6081.8  |
| 82.5° | 0.0     | 21.9    | 35.8    | 33.8    | 37.8    | 45.8    | 79.6    | 1648.4  | 3935.8  | 3979.6  |
| 85°   | 0.0     | 10.0    | 27.9    | 21.9    | 15.9    | 31.9    | 27.9    | 360.3   | 2064.4  | 2150.0  |
| 87.5° | 0.0     | 0.0     | 2.0     | 10.0    | 8.0     | 11.9    | 4.0     | 2.0     | 187.1   | 236.9   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)