

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: P322607

Luminaire Tested: **GAN-SA3C-750-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-750-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15334 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

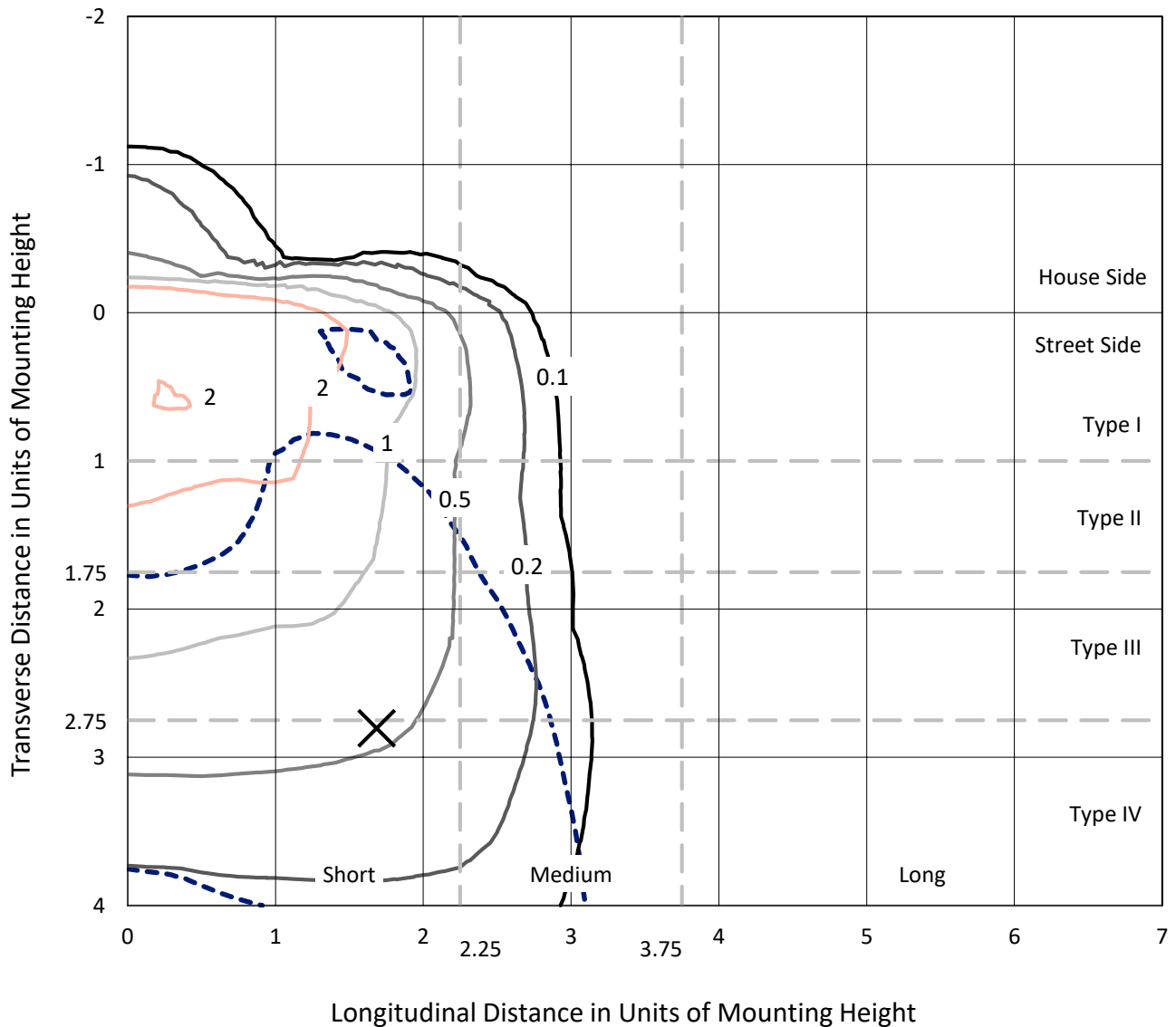
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

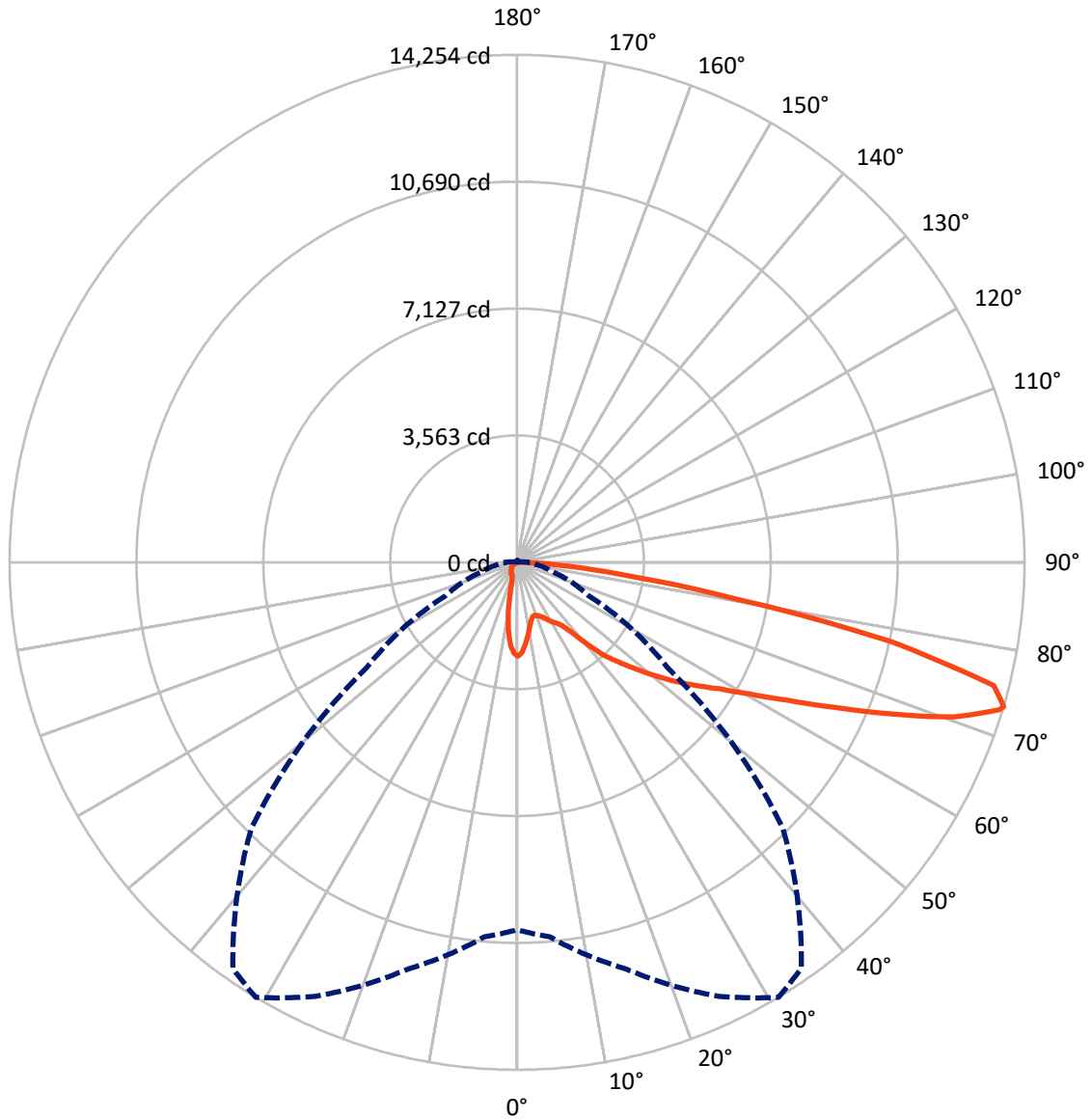
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1397.8 | 0.0 | 1397.8 |
| | % Fixture | 9.1 | 0.0 | 9.1 |
| Street Side | Lumens | 13936.3 | 0.0 | 13936.3 |
| | % Fixture | 90.9 | 0.0 | 90.9 |
| Total | Lumens | 15334.0 | 0.0 | 15334.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 218.7 | 1.4 |
| 10°-20° | 475.0 | 3.1 |
| 20°-30° | 711.6 | 4.6 |
| 30°-40° | 1132.2 | 7.4 |
| 40°-50° | 2021.8 | 13.2 |
| 50°-60° | 3137.3 | 20.5 |
| 60°-70° | 4170.6 | 27.2 |
| 70°-80° | 3137.1 | 20.5 |
| 80°-90° | 329.7 | 2.1 |
| 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° | 15334.0 | 100.0 |
| 0°-180° | 15334.0 | 100.0 |



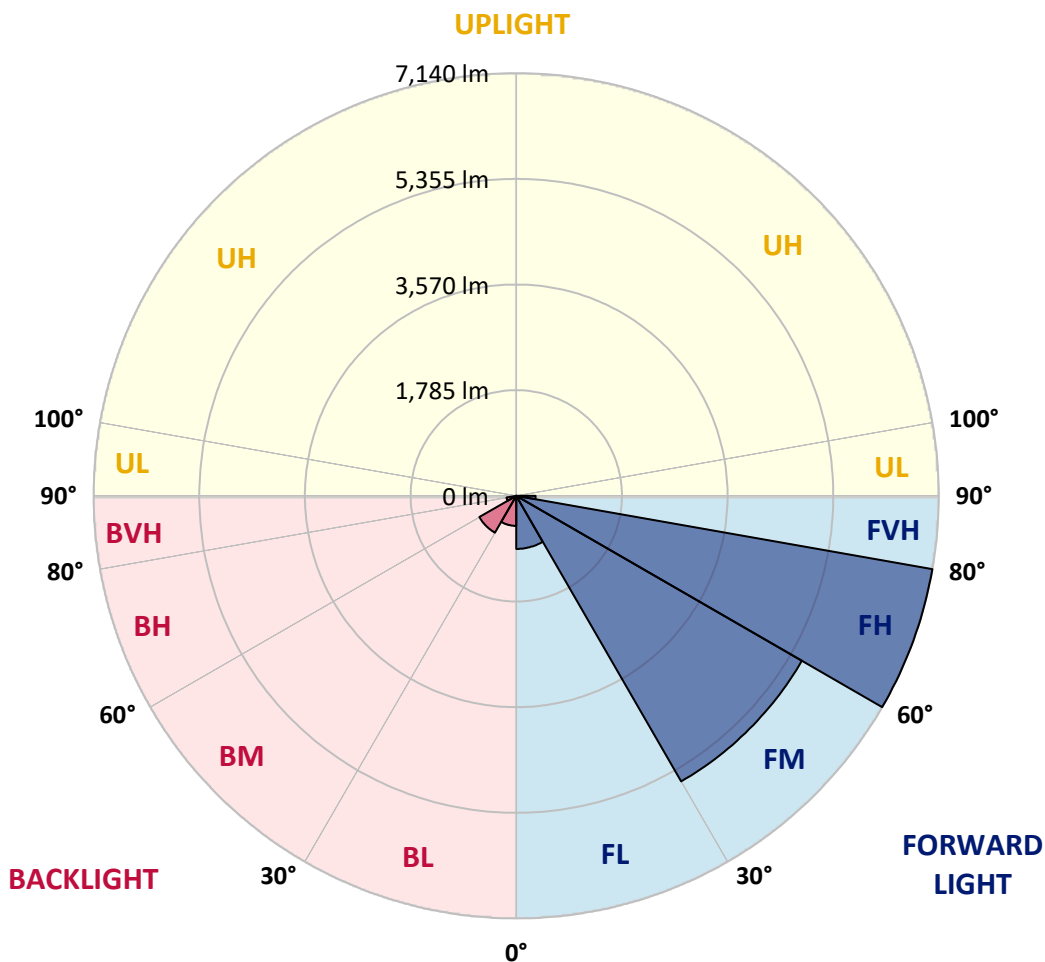
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 897.1 | 5.9 | | | |
| FM (30°-60°) | 5571.8 | 36.3 | | | |
| FH (60°-80°) | 7140.5 | 46.6 | | | G3/7500 |
| FVH (80°-90°) | 326.9 | 2.1 | | | G3/500 |
| BL (0°-30°) | 508.3 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 719.5 | 4.7 | B1/1000 | | |
| BH (60°-80°) | 167.2 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.8 | 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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 31° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2638.2 | 2638.2 | 2638.2 | 2638.2 | 2638.2 | 2638.2 | 2638.2 | 2638.2 | 2638.2 | 2638.2 | 2638.2 |
| 2.5° | 2500.2 | 2510.7 | 2521.9 | 2524.2 | 2543.0 | 2543.7 | 2570.7 | 2591.0 | 2611.2 | 2630.7 | 2637.5 |
| 5° | 2243.6 | 2260.8 | 2281.1 | 2301.3 | 2341.1 | 2356.9 | 2422.9 | 2490.4 | 2555.0 | 2616.5 | 2646.5 |
| 7.5° | 1969.7 | 1989.2 | 2017.7 | 2068.0 | 2112.2 | 2143.0 | 2247.3 | 2367.4 | 2487.4 | 2600.7 | 2666.0 |
| 10° | 1719.8 | 1737.8 | 1767.8 | 1821.1 | 1889.4 | 1931.4 | 2071.7 | 2238.3 | 2414.6 | 2586.5 | 2695.3 |
| 12.5° | 1560.7 | 1570.5 | 1587.0 | 1644.0 | 1705.6 | 1752.8 | 1917.9 | 2124.3 | 2354.6 | 2585.7 | 2742.5 |
| 15° | 1531.5 | 1534.5 | 1521.0 | 1546.5 | 1594.5 | 1640.3 | 1807.6 | 2032.0 | 2308.8 | 2597.7 | 2804.1 |
| 17.5° | 1578.0 | 1576.5 | 1531.5 | 1528.5 | 1566.7 | 1604.3 | 1753.6 | 1968.2 | 2276.6 | 2625.5 | 2883.6 |
| 20° | 1648.5 | 1643.3 | 1565.2 | 1551.0 | 1591.5 | 1626.8 | 1749.8 | 1944.2 | 2264.6 | 2672.0 | 2980.4 |
| 22.5° | 1742.3 | 1733.3 | 1611.0 | 1596.0 | 1639.5 | 1676.3 | 1796.3 | 1967.4 | 2275.1 | 2734.3 | 3093.0 |
| 25° | 1858.6 | 1845.1 | 1689.8 | 1673.3 | 1717.6 | 1754.3 | 1879.6 | 2034.2 | 2306.6 | 2810.1 | 3235.5 |
| 27.5° | 1989.9 | 1970.4 | 1815.9 | 1773.1 | 1823.4 | 1861.6 | 1990.7 | 2136.3 | 2356.1 | 2890.4 | 3410.4 |
| 30° | 2113.7 | 2088.2 | 1948.7 | 1878.1 | 1939.7 | 1982.4 | 2110.7 | 2257.8 | 2435.7 | 3014.2 | 3649.7 |
| 32.5° | 2238.3 | 2209.8 | 2067.2 | 1983.2 | 2038.7 | 2085.2 | 2234.6 | 2425.1 | 2585.0 | 3203.3 | 3967.9 |
| 35° | 2524.9 | 2494.9 | 2320.1 | 2181.3 | 2180.5 | 2206.8 | 2407.9 | 2654.0 | 2782.3 | 3466.6 | 4347.6 |
| 37.5° | 3007.4 | 2990.2 | 2823.6 | 2560.2 | 2489.7 | 2460.4 | 2644.2 | 2927.1 | 3065.9 | 3829.1 | 4776.0 |
| 40° | 3535.7 | 3520.7 | 3333.8 | 3095.2 | 2987.9 | 2915.9 | 2983.4 | 3307.6 | 3466.6 | 4271.8 | 5213.5 |
| 42.5° | 4132.2 | 4060.9 | 3727.8 | 3656.5 | 3560.4 | 3505.7 | 3444.9 | 3776.5 | 3958.9 | 4753.5 | 5647.2 |
| 45° | 4674.0 | 4553.9 | 4121.7 | 4013.6 | 3991.9 | 4005.4 | 4039.2 | 4406.8 | 4512.6 | 5326.0 | 6079.4 |
| 47.5° | 4996.6 | 4902.1 | 4570.4 | 4466.9 | 4460.9 | 4550.1 | 4805.3 | 5118.9 | 5064.1 | 5825.0 | 6459.8 |
| 50° | 5303.5 | 5218.0 | 4942.6 | 4968.1 | 4995.9 | 5117.4 | 5674.9 | 5851.3 | 5567.6 | 6277.5 | 6808.7 |
| 52.5° | 5551.9 | 5421.3 | 5277.2 | 5420.6 | 5557.1 | 5753.0 | 6572.4 | 6508.6 | 5924.8 | 6637.6 | 7107.4 |
| 55° | 5695.2 | 5635.9 | 5705.7 | 5849.8 | 6106.4 | 6424.5 | 7419.5 | 7055.6 | 6185.9 | 6966.3 | 7306.2 |
| 57.5° | 6220.4 | 6104.1 | 6242.9 | 6367.5 | 6702.2 | 7147.1 | 8145.1 | 7463.0 | 6374.3 | 7169.6 | 7352.0 |
| 60° | 6856.0 | 6762.2 | 6844.0 | 7051.1 | 7502.8 | 8025.8 | 8823.4 | 7795.4 | 6472.6 | 7300.2 | 7233.4 |
| 62.5° | 7867.5 | 7743.7 | 7692.6 | 7924.5 | 8523.3 | 9094.3 | 9338.2 | 8025.8 | 6450.8 | 7242.4 | 6826.7 |
| 65° | 9222.6 | 9094.3 | 8866.2 | 9076.3 | 9837.9 | 10240.8 | 9913.7 | 8074.6 | 6300.7 | 6774.9 | 5798.7 |
| 67.5° | 10610.8 | 10517.7 | 10322.6 | 10676.8 | 11364.1 | 11493.9 | 10522.2 | 7956.0 | 5817.5 | 5493.3 | 4096.9 |
| 70° | 11527.7 | 11487.9 | 11614.7 | 12398.1 | 13011.1 | 12973.6 | 11080.5 | 7319.0 | 4534.4 | 3378.1 | 2026.7 |
| 72.5° | 10866.6 | 11057.2 | 11993.7 | 13414.1 | 14162.9 | 13856.8 | 10793.8 | 5620.2 | 2591.7 | 1299.6 | 586.0 |
| 73° | 10318.9 | 10562.7 | 11823.3 | 13452.4 | 14253.7 | 13918.3 | 10553.0 | 5158.7 | 2209.0 | 1025.7 | 444.2 |
| 75° | 7178.6 | 7478.0 | 9788.4 | 12528.7 | 13829.0 | 13261.0 | 8796.4 | 3157.5 | 1023.5 | 454.7 | 179.3 |
| 77.5° | 3485.4 | 3706.8 | 5389.8 | 9052.3 | 10754.8 | 10360.9 | 5476.1 | 1176.6 | 462.2 | 284.4 | 82.5 |
| 80° | 1301.1 | 1446.7 | 2339.6 | 4607.2 | 6215.2 | 6378.0 | 2408.6 | 445.0 | 307.6 | 228.9 | 42.0 |
| 82.5° | 340.7 | 379.7 | 862.9 | 2054.5 | 3185.3 | 3333.8 | 759.4 | 224.4 | 225.1 | 188.3 | 25.5 |
| 85° | 108.8 | 124.6 | 269.4 | 922.2 | 1500.7 | 1317.6 | 198.1 | 108.8 | 163.6 | 140.3 | 14.3 |
| 87.5° | 13.5 | 17.3 | 85.5 | 216.9 | 330.9 | 183.8 | 30.8 | 32.3 | 69.8 | 78.0 | 8.3 |
| 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-750-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2638.2 | 2638.2 | 2638.2 | 2638.2 | 2638.2 | 2638.2 | 2638.2 | 2638.2 | 2638.2 | 2638.2 | 2638.2 |
| 2.5° | 2644.2 | 2640.5 | 2641.2 | 2621.7 | 2609.0 | 2583.5 | 2557.2 | 2545.2 | 2532.4 | 2527.2 | 2532.4 |
| 5° | 2657.8 | 2651.0 | 2631.5 | 2571.5 | 2507.7 | 2425.1 | 2347.9 | 2289.3 | 2215.8 | 2195.5 | 2216.5 |
| 7.5° | 2678.8 | 2665.3 | 2608.2 | 2485.9 | 2344.1 | 2186.5 | 2009.4 | 1880.4 | 1774.6 | 1706.3 | 1731.1 |
| 10° | 2709.5 | 2684.0 | 2569.2 | 2361.4 | 2107.7 | 1828.6 | 1577.2 | 1381.4 | 1242.6 | 1185.6 | 1183.3 |
| 12.5° | 2761.3 | 2713.3 | 2521.2 | 2199.3 | 1818.9 | 1446.7 | 1117.3 | 904.9 | 792.4 | 719.6 | 718.1 |
| 15° | 2818.3 | 2747.8 | 2460.4 | 2004.9 | 1482.7 | 1036.2 | 719.6 | 558.3 | 485.5 | 462.2 | 459.2 |
| 17.5° | 2888.1 | 2787.6 | 2381.6 | 1765.6 | 1130.8 | 686.6 | 469.7 | 423.2 | 420.2 | 417.9 | 417.9 |
| 20° | 2975.9 | 2834.8 | 2280.3 | 1491.7 | 802.1 | 458.5 | 399.2 | 402.2 | 403.7 | 400.7 | 401.4 |
| 22.5° | 3078.0 | 2882.9 | 2159.5 | 1197.6 | 542.5 | 383.4 | 381.9 | 385.7 | 387.2 | 385.7 | 386.4 |
| 25° | 3196.5 | 2938.4 | 2012.5 | 889.2 | 391.7 | 363.9 | 367.7 | 372.9 | 376.7 | 376.7 | 376.7 |
| 27.5° | 3343.6 | 3005.9 | 1835.4 | 620.5 | 338.4 | 343.7 | 354.2 | 363.9 | 369.2 | 370.7 | 370.7 |
| 30° | 3534.9 | 3090.0 | 1623.0 | 425.5 | 307.6 | 316.6 | 336.2 | 354.9 | 364.7 | 366.2 | 366.9 |
| 32.5° | 3776.5 | 3184.5 | 1376.9 | 314.4 | 281.4 | 288.1 | 309.1 | 340.7 | 359.4 | 362.4 | 362.4 |
| 35° | 4053.4 | 3294.1 | 1112.0 | 273.9 | 262.6 | 264.9 | 281.4 | 317.4 | 350.4 | 358.7 | 359.4 |
| 37.5° | 4356.6 | 3402.1 | 845.6 | 255.9 | 246.9 | 246.9 | 258.9 | 289.6 | 328.7 | 354.2 | 357.2 |
| 40° | 4639.4 | 3467.4 | 592.8 | 241.6 | 232.6 | 232.6 | 243.1 | 265.6 | 302.4 | 340.7 | 348.9 |
| 42.5° | 4900.6 | 3489.9 | 412.7 | 228.1 | 219.1 | 221.4 | 230.4 | 248.4 | 276.1 | 314.4 | 321.9 |
| 45° | 5169.2 | 3486.1 | 300.9 | 212.4 | 205.6 | 212.4 | 219.1 | 232.6 | 252.9 | 274.6 | 276.1 |
| 47.5° | 5371.8 | 3454.6 | 238.6 | 197.3 | 192.8 | 201.8 | 207.8 | 216.9 | 228.1 | 226.6 | 226.6 |
| 50° | 5561.6 | 3378.1 | 192.1 | 177.1 | 180.1 | 190.6 | 193.6 | 196.6 | 197.3 | 183.1 | 181.6 |
| 52.5° | 5705.7 | 3258.8 | 153.8 | 155.3 | 167.3 | 177.8 | 174.8 | 170.3 | 162.8 | 145.6 | 142.6 |
| 55° | 5753.7 | 3029.2 | 120.8 | 128.3 | 148.6 | 162.1 | 150.8 | 141.1 | 126.8 | 112.6 | 109.6 |
| 57.5° | 5666.7 | 2732.8 | 98.3 | 99.8 | 125.3 | 136.6 | 123.8 | 112.6 | 96.8 | 84.8 | 82.5 |
| 60° | 5482.1 | 2403.4 | 81.0 | 75.0 | 96.8 | 106.6 | 98.3 | 87.0 | 72.8 | 63.8 | 63.0 |
| 62.5° | 5115.9 | 2052.2 | 66.8 | 58.5 | 73.5 | 81.8 | 76.5 | 68.3 | 56.3 | 50.3 | 49.5 |
| 65° | 4346.1 | 1641.8 | 54.0 | 47.3 | 57.0 | 63.8 | 59.3 | 53.3 | 44.3 | 39.8 | 39.0 |
| 67.5° | 3033.7 | 1109.8 | 44.3 | 39.0 | 45.0 | 50.3 | 46.5 | 43.5 | 35.3 | 34.5 | 35.3 |
| 70° | 1463.2 | 535.0 | 36.8 | 31.5 | 35.3 | 39.0 | 37.5 | 35.3 | 33.8 | 39.0 | 45.0 |
| 72.5° | 419.4 | 179.3 | 29.3 | 26.3 | 28.5 | 30.8 | 32.3 | 31.5 | 36.8 | 47.3 | 54.8 |
| 73° | 322.7 | 144.8 | 27.8 | 24.8 | 27.0 | 30.0 | 31.5 | 30.8 | 37.5 | 48.0 | 54.8 |
| 75° | 138.1 | 69.8 | 21.0 | 20.3 | 22.5 | 26.3 | 27.8 | 27.8 | 37.5 | 48.8 | 52.5 |
| 77.5° | 62.3 | 37.5 | 13.5 | 15.8 | 19.5 | 21.0 | 23.3 | 23.3 | 30.0 | 37.5 | 37.5 |
| 80° | 35.3 | 20.3 | 10.5 | 12.0 | 14.3 | 14.3 | 14.3 | 12.8 | 13.5 | 15.0 | 16.5 |
| 82.5° | 22.5 | 13.5 | 8.3 | 9.8 | 9.0 | 7.5 | 6.0 | 6.0 | 5.3 | 6.0 | 7.5 |
| 85° | 12.8 | 7.5 | 7.5 | 6.0 | 3.8 | 3.0 | 3.8 | 3.0 | 0.8 | 0.0 | 0.8 |
| 87.5° | 7.5 | 4.5 | 2.3 | 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)