

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: P321327

Luminaire Tested: **GAN-SA3C-750-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-750-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17429 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

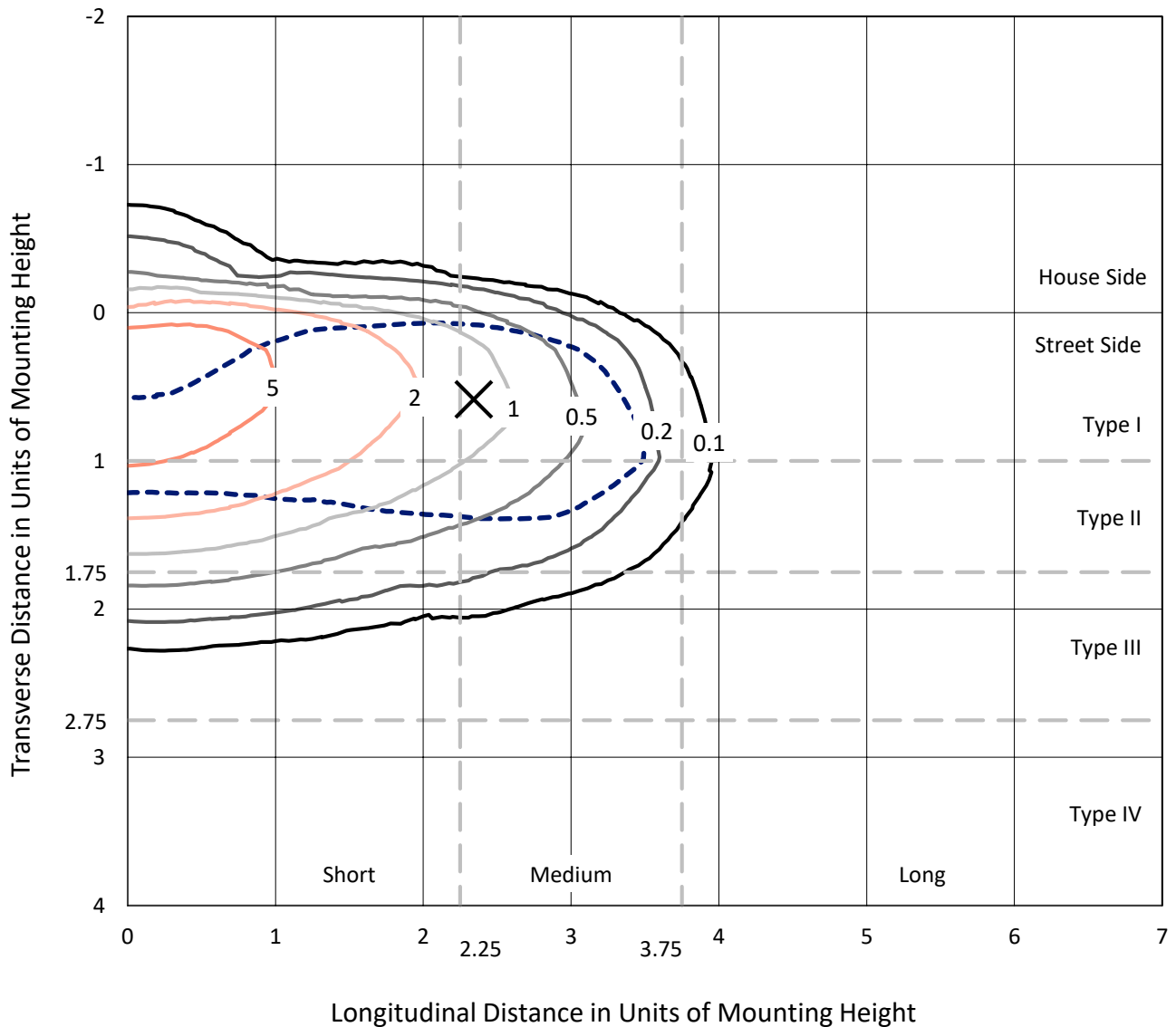




REPORT NUMBER: P321327
 CATALOG NUMBER: GAN-SA3C-750-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

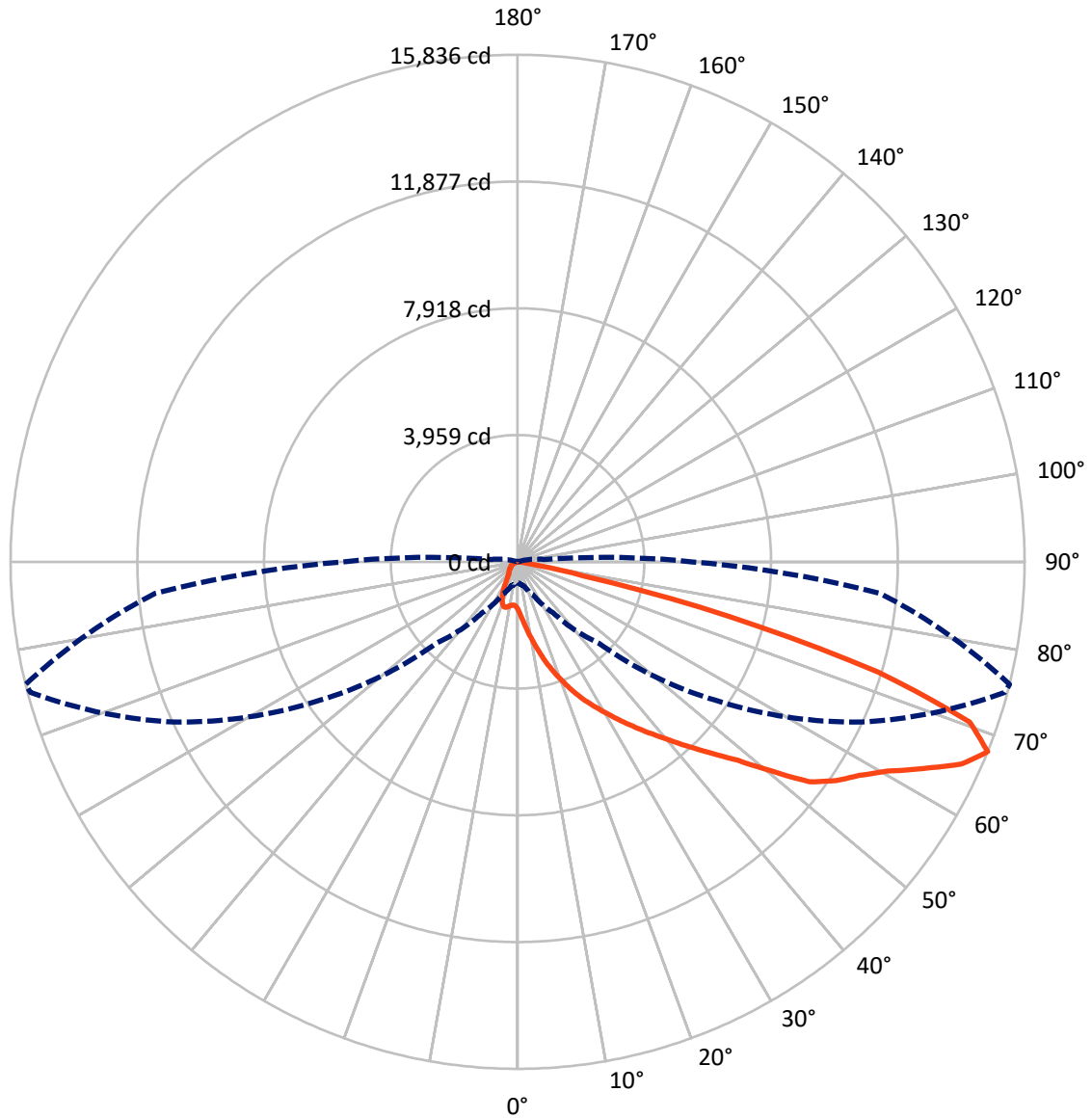
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P321327
CATALOG NUMBER: GAN-SA3C-750-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P321327
 CATALOG NUMBER: GAN-SA3C-750-U-T2R-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 865.5 | 0.0 | 865.5 |
| | % Fixture | 5.0 | 0.0 | 5.0 |
| Street Side | Lumens | 16563.5 | 0.0 | 16563.5 |
| | % Fixture | 95.0 | 0.0 | 95.0 |
| Total | Lumens | 17429.0 | 0.0 | 17429.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 183.8 | 1.1 |
| 10°-20° | 728.8 | 4.2 |
| 20°-30° | 1482.9 | 8.5 |
| 30°-40° | 2573.8 | 14.8 |
| 40°-50° | 3636.4 | 20.9 |
| 50°-60° | 4123.9 | 23.7 |
| 60°-70° | 3420.3 | 19.6 |
| 70°-80° | 1238.9 | 7.1 |
| 80°-90° | 40.2 | 0.2 |
| 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° | 17429.0 | 100.0 |
| 0°-180° | 17429.0 | 100.0 |

Coefficient of Utilization



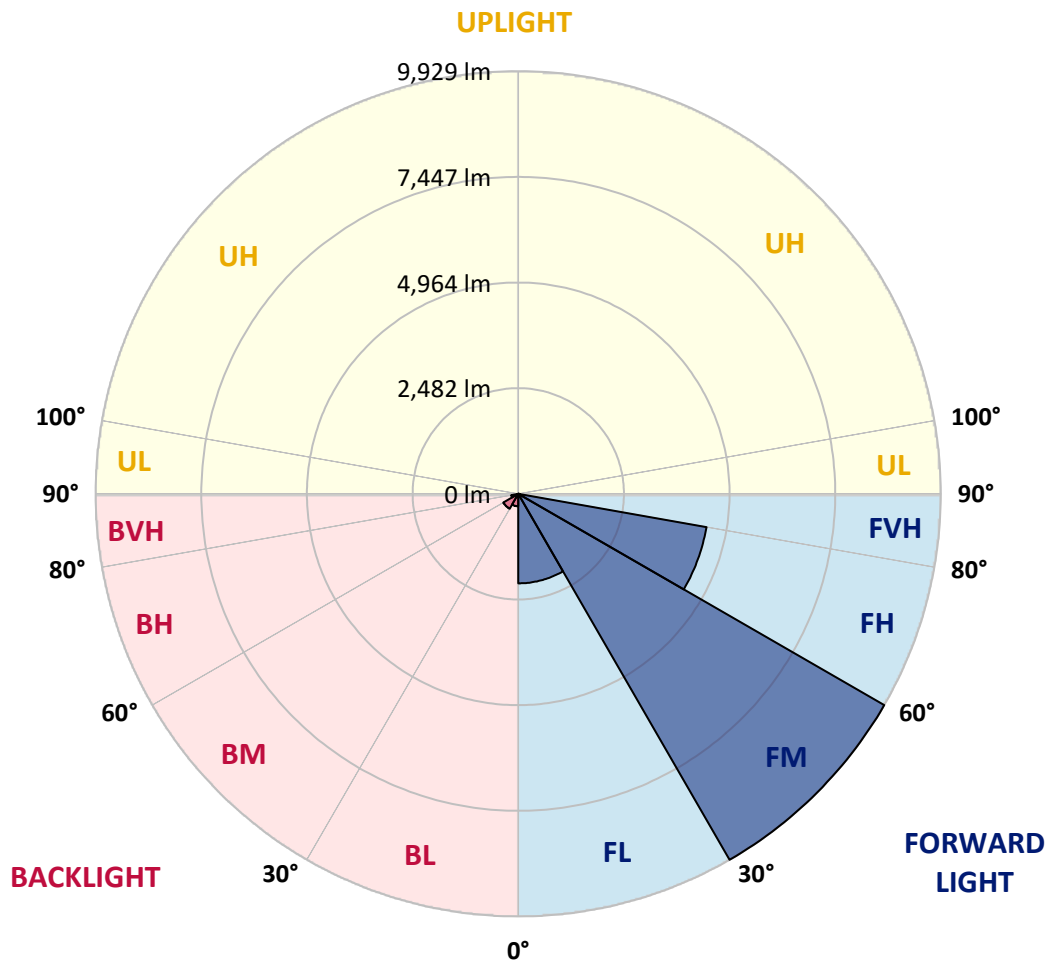
REPORT NUMBER: P321327
 CATALOG NUMBER: GAN-SA3C-750-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2103.6 | 12.1 | | | |
| FM (30°-60°) | 9928.9 | 57.0 | | | |
| FH (60°-80°) | 4492.0 | 25.8 | | | G2/5000 |
| FVH (80°-90°) | 38.9 | 0.2 | | | G1/100 |
| BL (0°-30°) | 291.9 | 1.7 | B1/500 | | |
| BM (30°-60°) | 405.1 | 2.3 | B1/1000 | | |
| BH (60°-80°) | 167.3 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Medium





REPORT NUMBER: P321327
 CATALOG NUMBER: GAN-SA3C-750-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 1478.5 | 1478.5 | 1478.5 | 1478.5 | 1478.5 | 1478.5 | 1478.5 | 1478.5 | 1478.5 | 1478.5 | 1478.5 |
| 2.5° | 2207.0 | 2157.4 | 2168.9 | 2136.8 | 2078.7 | 1959.6 | 1858.0 | 1761.8 | 1649.5 | 1645.7 | 1553.3 |
| 5° | 2976.1 | 2934.1 | 2928.7 | 2863.8 | 2758.4 | 2556.0 | 2359.0 | 2134.5 | 1884.0 | 1865.7 | 1669.4 |
| 7.5° | 3674.1 | 3640.5 | 3628.2 | 3551.1 | 3354.8 | 3157.8 | 2901.2 | 2571.3 | 2179.5 | 2145.9 | 1826.0 |
| 10° | 4210.2 | 4194.1 | 4197.2 | 4142.2 | 3974.2 | 3790.9 | 3454.1 | 3033.3 | 2514.8 | 2462.9 | 2013.8 |
| 12.5° | 4616.4 | 4620.3 | 4647.8 | 4614.2 | 4520.2 | 4384.3 | 4024.6 | 3525.9 | 2885.9 | 2814.9 | 2228.4 |
| 15° | 4915.0 | 4934.1 | 4984.5 | 5026.5 | 5019.7 | 4902.1 | 4572.2 | 4026.1 | 3280.0 | 3201.3 | 2467.4 |
| 17.5° | 5108.3 | 5129.6 | 5203.0 | 5296.1 | 5381.7 | 5354.2 | 5100.6 | 4508.8 | 3678.6 | 3587.8 | 2723.3 |
| 20° | 5277.8 | 5303.0 | 5381.7 | 5504.6 | 5664.2 | 5698.6 | 5532.1 | 4976.9 | 4076.5 | 3965.8 | 2987.5 |
| 22.5° | 5645.1 | 5644.4 | 5692.5 | 5764.3 | 5916.2 | 6004.8 | 5899.4 | 5411.4 | 4469.8 | 4354.5 | 3257.1 |
| 25° | 6309.5 | 6284.3 | 6267.5 | 6211.0 | 6244.6 | 6299.6 | 6240.8 | 5817.7 | 4865.4 | 4748.6 | 3530.5 |
| 27.5° | 7099.2 | 7114.4 | 6978.5 | 6826.5 | 6708.9 | 6652.4 | 6556.2 | 6194.2 | 5245.7 | 5117.4 | 3797.8 |
| 30° | 7932.3 | 7936.9 | 7776.6 | 7582.6 | 7323.7 | 7109.1 | 6942.6 | 6553.9 | 5636.7 | 5497.0 | 4057.4 |
| 32.5° | 8683.8 | 8654.0 | 8495.2 | 8230.9 | 7904.1 | 7662.8 | 7316.8 | 6955.6 | 6050.6 | 5915.5 | 4346.1 |
| 35° | 9279.5 | 9244.3 | 9051.1 | 8810.6 | 8471.5 | 8228.6 | 7812.4 | 7356.5 | 6485.9 | 6353.8 | 4635.5 |
| 37.5° | 9714.8 | 9673.5 | 9475.0 | 9227.5 | 8935.1 | 8793.8 | 8387.5 | 7792.6 | 6960.9 | 6818.9 | 4940.2 |
| 40° | 9866.0 | 9830.1 | 9705.6 | 9524.6 | 9289.4 | 9257.3 | 8997.7 | 8294.3 | 7478.0 | 7326.7 | 5285.4 |
| 42.5° | 9775.9 | 9740.7 | 9696.4 | 9635.3 | 9537.6 | 9568.1 | 9573.5 | 8866.3 | 8052.2 | 7903.3 | 5666.5 |
| 45° | 9418.5 | 9387.2 | 9433.0 | 9522.3 | 9643.7 | 9795.0 | 10098.9 | 9481.1 | 8693.7 | 8534.9 | 6107.1 |
| 47.5° | 8892.3 | 8869.4 | 8996.1 | 9219.1 | 9574.3 | 9991.2 | 10579.3 | 10127.2 | 9413.9 | 9266.5 | 6657.0 |
| 50° | 8143.9 | 8140.1 | 8393.6 | 8800.6 | 9346.7 | 10085.9 | 11075.6 | 10861.8 | 10414.3 | 10259.3 | 7421.4 |
| 52.5° | 6978.5 | 6986.1 | 7484.8 | 8136.2 | 8947.3 | 10021.8 | 11394.9 | 11805.7 | 11578.1 | 11417.0 | 8083.6 |
| 55° | 5868.9 | 5914.7 | 6268.3 | 7207.6 | 8334.8 | 9783.5 | 11504.8 | 12246.4 | 12220.4 | 12067.7 | 8451.6 |
| 57.5° | 4782.2 | 4865.4 | 5206.0 | 6083.5 | 7440.5 | 9234.4 | 11444.5 | 12437.3 | 12698.5 | 12581.6 | 8937.3 |
| 60° | 3604.6 | 3642.8 | 4035.3 | 4855.5 | 6292.7 | 8232.5 | 11006.9 | 12541.1 | 13352.2 | 13271.2 | 9642.2 |
| 62.5° | 2293.3 | 2388.8 | 2737.0 | 3528.2 | 4899.8 | 6841.0 | 10269.2 | 12539.6 | 14170.1 | 14214.4 | 10551.8 |
| 65° | 1208.1 | 1319.6 | 1504.4 | 2186.4 | 3367.1 | 5287.0 | 9159.6 | 12422.0 | 15173.6 | 15235.4 | 11262.7 |
| 67.5° | 651.4 | 683.5 | 781.2 | 1134.8 | 1952.7 | 3581.7 | 7529.1 | 11841.6 | 15754.7 | 15836.4 | 11362.0 |
| 70° | 476.5 | 494.1 | 530.8 | 627.7 | 982.9 | 2080.3 | 5493.9 | 10525.8 | 15005.5 | 14975.0 | 10095.1 |
| 72.5° | 365.8 | 393.3 | 420.8 | 459.7 | 565.1 | 1110.4 | 3420.5 | 8242.4 | 11973.0 | 11771.4 | 7545.9 |
| 75° | 288.7 | 293.3 | 332.2 | 367.3 | 423.8 | 632.3 | 1519.0 | 4800.5 | 7307.7 | 6830.4 | 3913.1 |
| 77.5° | 230.6 | 233.7 | 256.6 | 287.1 | 340.6 | 415.4 | 470.4 | 1888.6 | 2333.0 | 2081.8 | 849.2 |
| 80° | 136.7 | 144.3 | 190.9 | 221.5 | 282.6 | 261.9 | 171.8 | 410.1 | 364.3 | 329.9 | 142.8 |
| 82.5° | 76.4 | 82.5 | 107.7 | 174.9 | 197.0 | 125.2 | 85.5 | 110.7 | 85.5 | 83.2 | 40.5 |
| 85° | 0.0 | 3.8 | 69.5 | 108.4 | 80.2 | 27.5 | 35.9 | 36.7 | 25.2 | 23.7 | 16.0 |
| 87.5° | 0.0 | 0.0 | 21.4 | 20.6 | 3.1 | 4.6 | 8.4 | 12.2 | 9.9 | 9.9 | 8.4 |
| 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: P321327
 CATALOG NUMBER: GAN-SA3C-750-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1478.5 | 1478.5 | 1478.5 | 1478.5 | 1478.5 | 1478.5 | 1478.5 | 1478.5 | 1478.5 | 1478.5 | 1478.5 |
| 2.5° | 1507.5 | 1466.3 | 1388.4 | 1312.0 | 1247.9 | 1195.2 | 1147.8 | 1128.7 | 1113.4 | 1111.2 | 1098.9 |
| 5° | 1574.7 | 1491.5 | 1342.5 | 1220.4 | 1138.6 | 1080.6 | 1031.0 | 1000.4 | 976.7 | 967.6 | 959.2 |
| 7.5° | 1676.3 | 1550.3 | 1336.4 | 1195.9 | 1098.2 | 1000.4 | 908.8 | 809.5 | 747.6 | 724.0 | 710.2 |
| 10° | 1800.0 | 1628.2 | 1359.3 | 1189.0 | 1018.0 | 811.8 | 659.8 | 533.8 | 482.6 | 465.8 | 461.3 |
| 12.5° | 1944.3 | 1725.2 | 1399.1 | 1146.3 | 846.9 | 576.6 | 455.2 | 412.4 | 400.9 | 395.6 | 395.6 |
| 15° | 2110.0 | 1831.3 | 1427.3 | 1022.6 | 626.2 | 436.1 | 394.1 | 374.2 | 362.0 | 355.1 | 355.9 |
| 17.5° | 2279.6 | 1935.2 | 1413.6 | 843.1 | 462.0 | 387.9 | 356.6 | 335.3 | 318.5 | 311.6 | 310.1 |
| 20° | 2450.6 | 2031.4 | 1337.2 | 627.7 | 391.0 | 352.1 | 316.9 | 293.3 | 276.5 | 269.6 | 268.1 |
| 22.5° | 2627.8 | 2113.1 | 1202.8 | 460.5 | 351.3 | 312.3 | 278.0 | 254.3 | 238.3 | 232.2 | 229.1 |
| 25° | 2800.4 | 2179.5 | 1014.9 | 372.7 | 313.9 | 274.9 | 242.1 | 219.9 | 205.4 | 199.3 | 198.6 |
| 27.5° | 2961.6 | 2221.5 | 797.3 | 329.1 | 281.0 | 241.3 | 211.5 | 191.7 | 179.5 | 174.9 | 174.1 |
| 30° | 3106.6 | 2225.4 | 589.6 | 297.1 | 252.0 | 212.3 | 184.8 | 167.2 | 156.6 | 152.0 | 150.4 |
| 32.5° | 3253.3 | 2193.3 | 429.2 | 268.1 | 225.3 | 187.1 | 160.4 | 146.6 | 139.0 | 135.2 | 135.2 |
| 35° | 3391.5 | 2119.2 | 334.5 | 242.9 | 199.3 | 162.7 | 141.3 | 131.4 | 126.8 | 123.0 | 123.0 |
| 37.5° | 3526.7 | 2013.1 | 284.1 | 220.7 | 174.9 | 142.0 | 124.5 | 118.4 | 114.6 | 110.7 | 110.7 |
| 40° | 3664.1 | 1879.4 | 258.1 | 200.1 | 155.0 | 126.0 | 110.7 | 105.4 | 101.6 | 98.5 | 97.8 |
| 42.5° | 3832.9 | 1725.2 | 241.3 | 181.0 | 137.5 | 111.5 | 97.8 | 91.6 | 88.6 | 85.5 | 84.0 |
| 45° | 4028.4 | 1592.3 | 227.6 | 161.9 | 123.0 | 99.3 | 84.8 | 78.7 | 74.1 | 70.3 | 69.5 |
| 47.5° | 4310.2 | 1496.0 | 209.2 | 141.3 | 109.2 | 86.3 | 73.3 | 66.4 | 59.6 | 55.7 | 55.0 |
| 50° | 4669.9 | 1416.6 | 185.6 | 123.0 | 95.5 | 73.3 | 61.1 | 52.7 | 46.6 | 42.8 | 42.8 |
| 52.5° | 4848.6 | 1312.8 | 164.2 | 106.9 | 80.2 | 61.9 | 49.6 | 39.7 | 36.7 | 32.8 | 32.8 |
| 55° | 4920.4 | 1233.3 | 142.8 | 90.9 | 66.4 | 51.2 | 38.9 | 30.5 | 28.3 | 26.0 | 25.2 |
| 57.5° | 5122.0 | 1210.4 | 124.5 | 77.1 | 55.0 | 40.5 | 29.8 | 22.9 | 21.4 | 18.3 | 18.3 |
| 60° | 5446.6 | 1221.9 | 107.7 | 65.7 | 44.3 | 31.3 | 22.1 | 17.6 | 16.0 | 13.0 | 13.0 |
| 62.5° | 5797.1 | 1207.4 | 90.9 | 56.5 | 34.4 | 22.9 | 15.3 | 13.0 | 13.0 | 7.6 | 6.9 |
| 65° | 5864.3 | 1075.3 | 77.9 | 46.6 | 26.7 | 16.8 | 9.9 | 8.4 | 11.5 | 1.5 | 0.0 |
| 67.5° | 5442.7 | 833.9 | 67.2 | 35.9 | 19.9 | 13.0 | 7.6 | 3.8 | 9.9 | 0.0 | 0.0 |
| 70° | 4352.2 | 530.0 | 54.2 | 26.0 | 15.3 | 10.7 | 6.1 | 1.5 | 7.6 | 0.0 | 0.0 |
| 72.5° | 3077.6 | 307.8 | 42.8 | 18.3 | 13.0 | 8.4 | 4.6 | 0.0 | 4.6 | 0.0 | 0.0 |
| 75° | 1556.4 | 164.2 | 26.7 | 13.7 | 9.9 | 6.1 | 3.1 | 0.0 | 0.8 | 0.0 | 0.0 |
| 77.5° | 336.8 | 76.4 | 16.8 | 9.9 | 6.9 | 3.8 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 73.3 | 33.6 | 10.7 | 6.1 | 3.8 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 26.7 | 17.6 | 5.3 | 3.1 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 14.5 | 9.2 | 3.1 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.6 | 3.1 | 0.8 | 0.8 | 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)