

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: P320019

Luminaire Tested: **GAN-SA5D-740-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36850 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

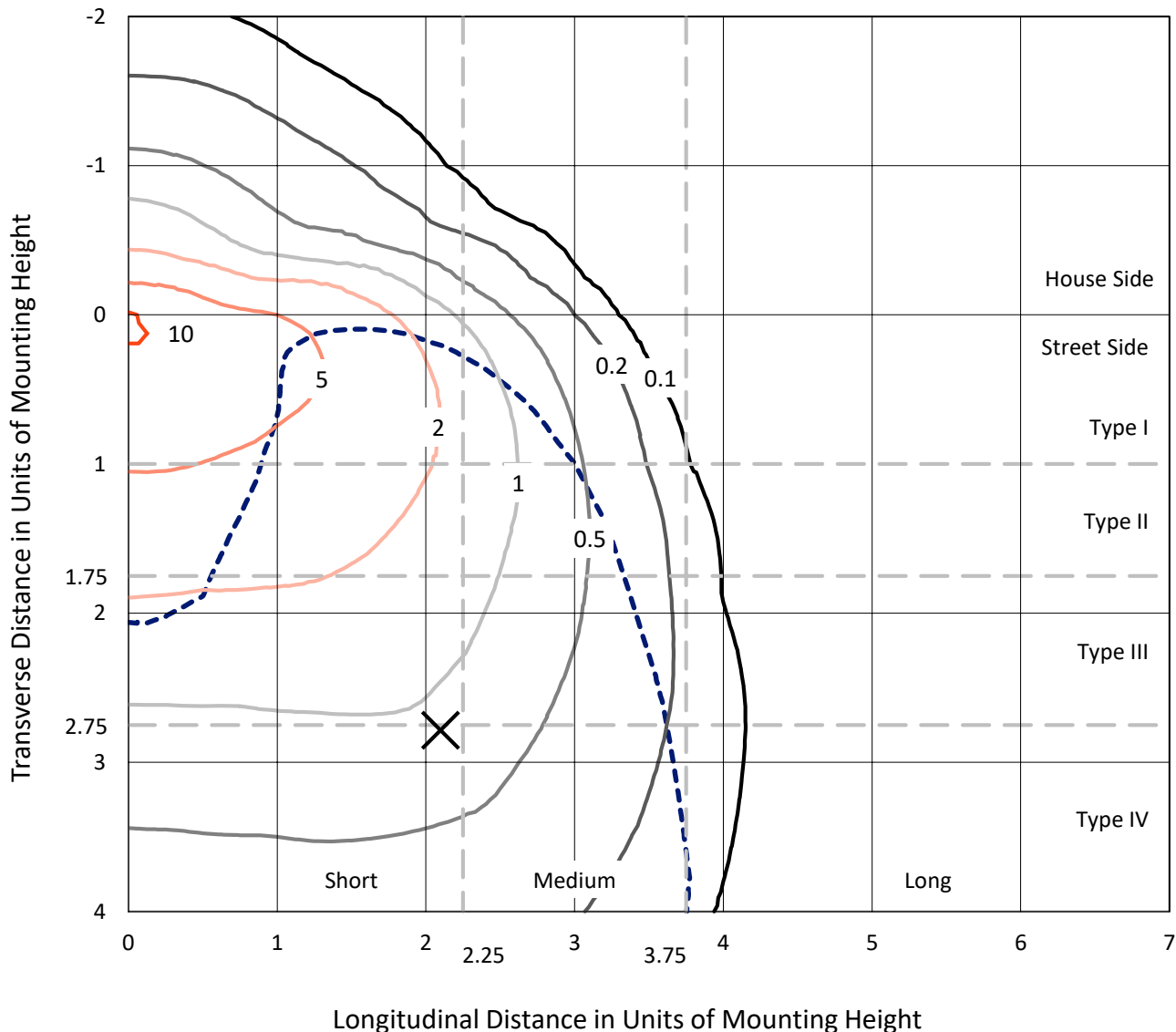
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320019
 CATALOG NUMBER: GAN-SA5D-740-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

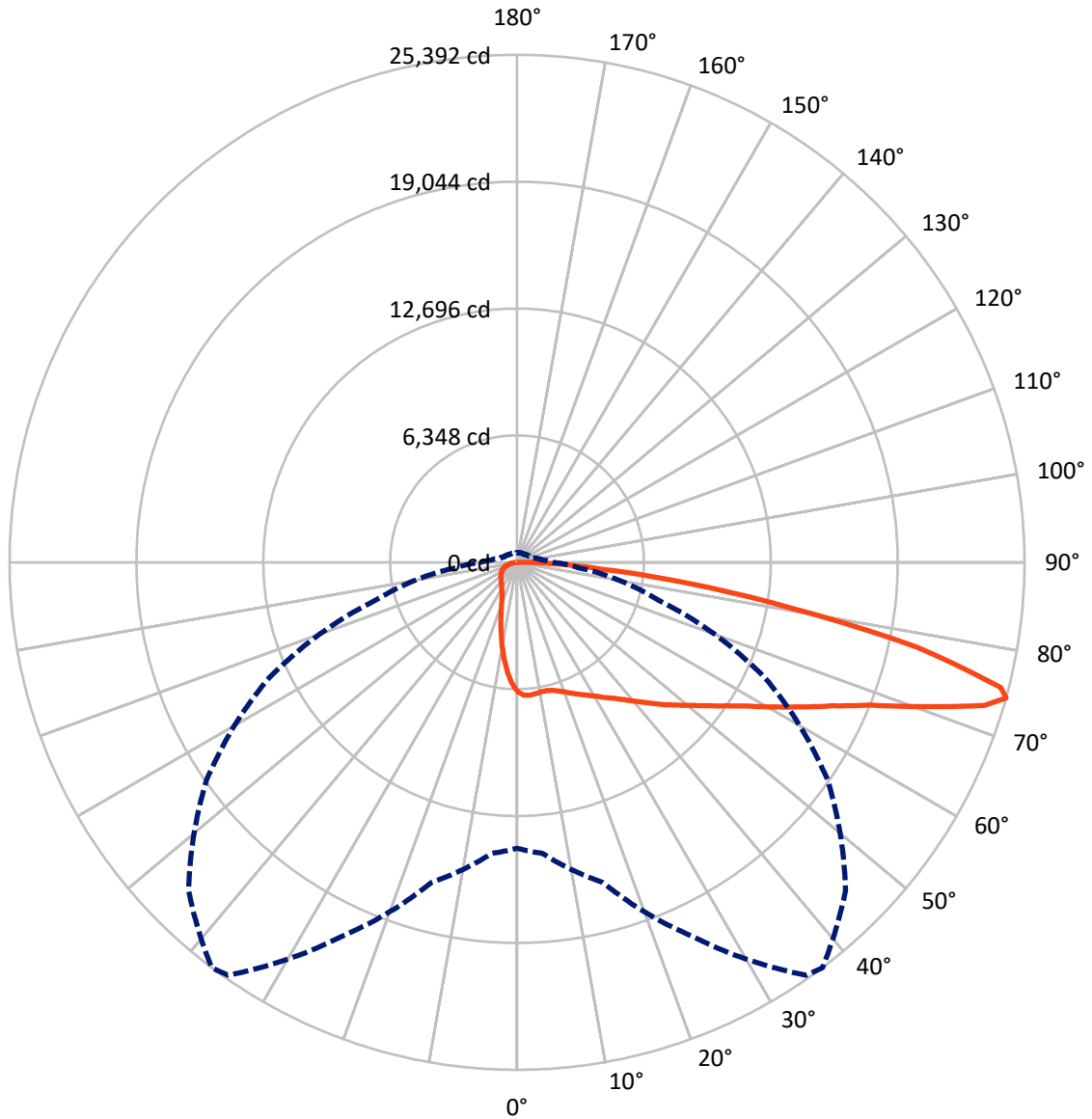
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P320019
CATALOG NUMBER: GAN-SA5D-740-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P320019
 CATALOG NUMBER: GAN-SA5D-740-U-SL4

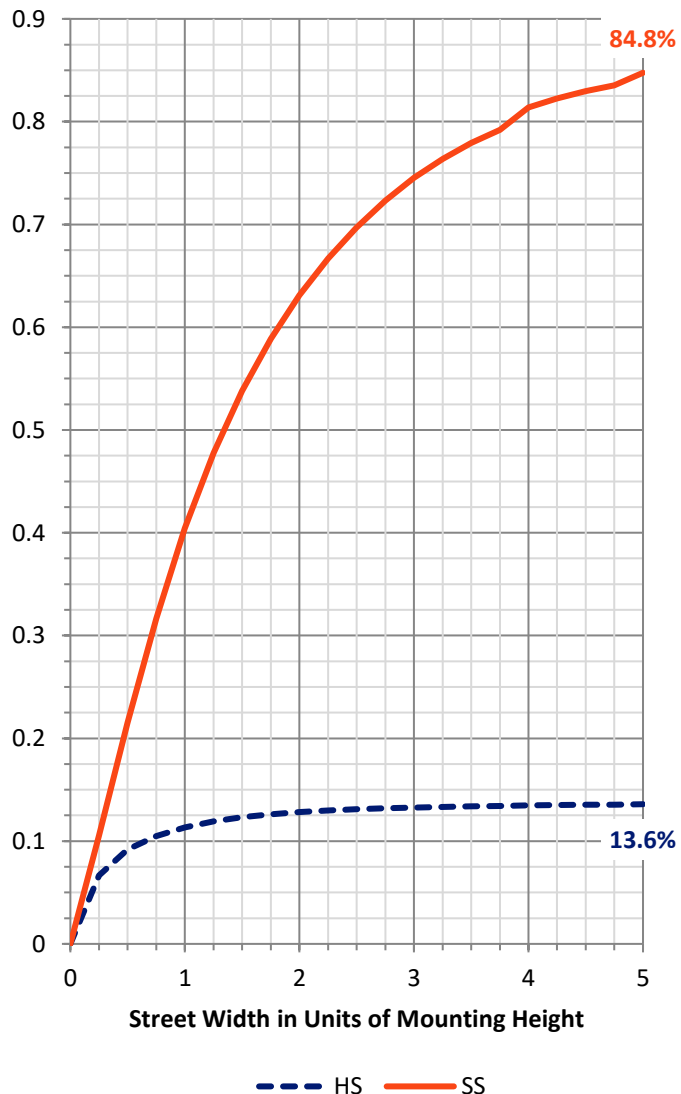
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5070.3 | 0.0 | 5070.3 |
| | % Fixture | 13.8 | 0.0 | 13.8 |
| Street Side | Lumens | 31779.7 | 0.0 | 31779.7 |
| | % Fixture | 86.2 | 0.0 | 86.2 |
| Total | Lumens | 36850.0 | 0.0 | 36850.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 571.8 | 1.6 |
| 10°-20° | 1465.6 | 4.0 |
| 20°-30° | 2258.2 | 6.1 |
| 30°-40° | 3283.7 | 8.9 |
| 40°-50° | 4833.1 | 13.1 |
| 50°-60° | 6787.2 | 18.4 |
| 60°-70° | 8590.5 | 23.3 |
| 70°-80° | 7564.3 | 20.5 |
| 80°-90° | 1495.6 | 4.1 |
| 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° | 36850.0 | 100.0 |
| 0°-180° | 36850.0 | 100.0 |

Coefficient of Utilization

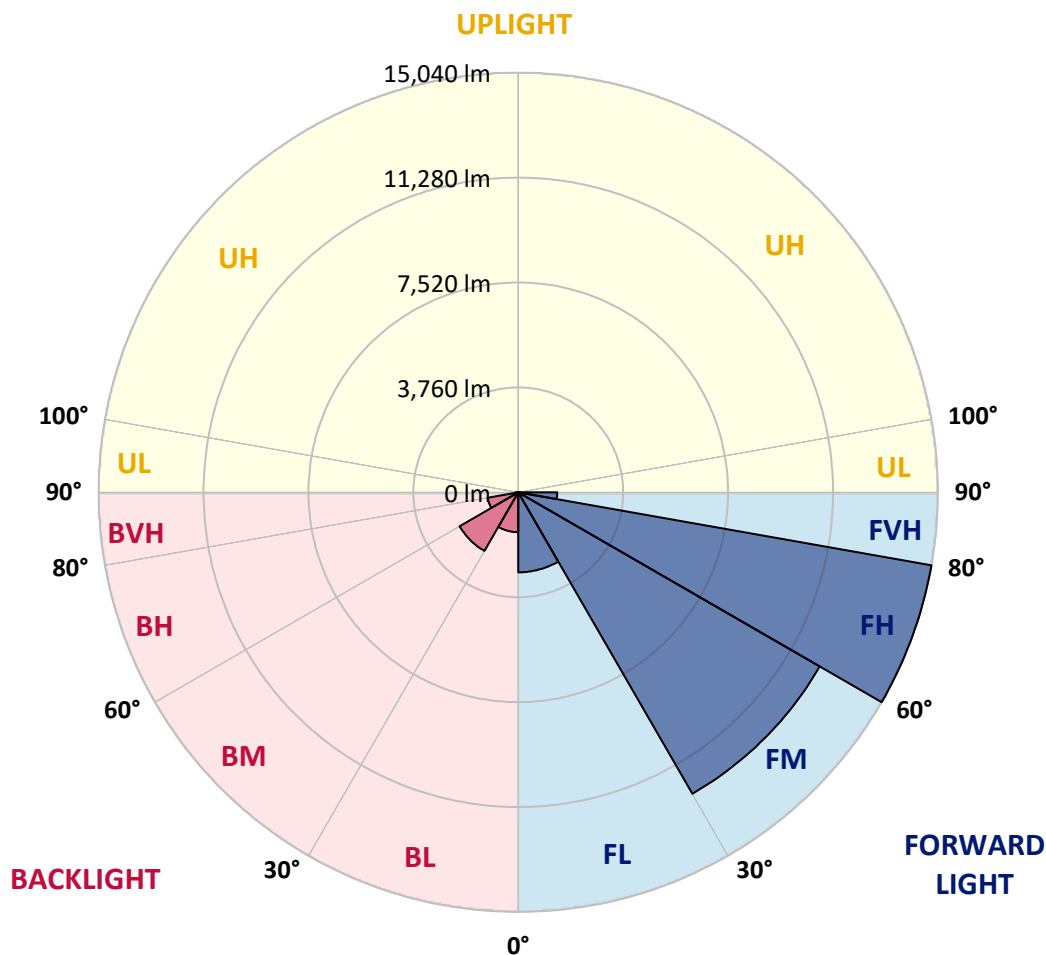


REPORT NUMBER: P320019
 CATALOG NUMBER: GAN-SA5D-740-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2867.4 | 7.8 | | | |
| FM (30°-60°) | 12477.7 | 33.9 | | | |
| FH (60°-80°) | 15040.3 | 40.8 | | | G5 |
| FVH (80°-90°) | 1394.3 | 3.8 | | | G5 |
| BL (0°-30°) | 1428.2 | 3.9 | B3/2500 | | |
| BM (30°-60°) | 2426.3 | 6.6 | B2/2500 | | |
| BH (60°-80°) | 1114.5 | 3.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 101.3 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type IV Short





REPORT NUMBER: P320019

CATALOG NUMBER: GAN-SA5D-740-U-SL4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 37° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6492.8 | 6492.8 | 6492.8 | 6492.8 | 6492.8 | 6492.8 | 6492.8 | 6492.8 | 6492.8 | 6492.8 | 6492.8 |
| 2.5° | 6714.8 | 6716.1 | 6714.8 | 6704.4 | 6679.7 | 6659.0 | 6642.1 | 6617.4 | 6562.9 | 6521.4 | 6459.1 |
| 5° | 6778.4 | 6770.6 | 6765.4 | 6745.9 | 6707.0 | 6683.6 | 6651.2 | 6604.5 | 6514.9 | 6431.8 | 6330.6 |
| 7.5° | 6748.5 | 6739.5 | 6727.8 | 6704.4 | 6660.3 | 6640.8 | 6595.4 | 6534.4 | 6426.6 | 6317.6 | 6172.2 |
| 10° | 6656.4 | 6653.8 | 6648.6 | 6643.4 | 6605.8 | 6590.2 | 6548.6 | 6483.7 | 6377.3 | 6244.9 | 6074.9 |
| 12.5° | 6553.8 | 6560.3 | 6581.1 | 6608.4 | 6591.5 | 6583.7 | 6557.7 | 6513.6 | 6404.6 | 6261.8 | 6056.7 |
| 15° | 6488.9 | 6507.1 | 6562.9 | 6634.3 | 6648.6 | 6646.0 | 6639.5 | 6610.9 | 6495.4 | 6337.1 | 6098.2 |
| 17.5° | 6466.9 | 6496.7 | 6603.2 | 6721.3 | 6762.8 | 6771.9 | 6774.5 | 6725.2 | 6596.7 | 6429.2 | 6141.1 |
| 20° | 6507.1 | 6544.7 | 6700.5 | 6862.8 | 6929.0 | 6934.2 | 6922.5 | 6836.8 | 6692.7 | 6508.4 | 6164.4 |
| 22.5° | 6629.1 | 6662.9 | 6857.6 | 7040.6 | 7115.9 | 7123.7 | 7088.6 | 6958.8 | 6794.0 | 6601.9 | 6196.9 |
| 25° | 6864.1 | 6905.6 | 7100.3 | 7283.3 | 7322.3 | 7323.6 | 7273.0 | 7112.0 | 6926.4 | 6733.0 | 6267.0 |
| 27.5° | 7170.4 | 7211.9 | 7387.2 | 7566.3 | 7545.5 | 7533.9 | 7465.1 | 7304.1 | 7099.0 | 6913.4 | 6391.6 |
| 30° | 7511.8 | 7557.2 | 7723.4 | 7850.6 | 7801.3 | 7777.9 | 7722.1 | 7514.4 | 7339.2 | 7160.0 | 6582.4 |
| 32.5° | 7864.9 | 7906.4 | 8051.8 | 8138.7 | 8076.4 | 8066.1 | 7981.7 | 7792.2 | 7652.0 | 7536.5 | 6891.3 |
| 35° | 8227.0 | 8256.9 | 8399.7 | 8449.0 | 8365.9 | 8363.3 | 8339.9 | 8166.0 | 8077.7 | 8132.3 | 7340.5 |
| 37.5° | 8597.0 | 8604.7 | 8726.8 | 8729.4 | 8704.7 | 8715.1 | 8739.7 | 8630.7 | 8655.4 | 8825.4 | 7924.6 |
| 40° | 8926.7 | 8947.4 | 9035.7 | 9063.0 | 9105.8 | 9142.1 | 9265.5 | 9194.1 | 9384.9 | 9686.0 | 8651.5 |
| 42.5° | 9170.7 | 9210.9 | 9352.4 | 9422.5 | 9561.4 | 9618.5 | 9792.5 | 9858.7 | 10242.9 | 10694.6 | 9516.0 |
| 45° | 9377.1 | 9439.4 | 9666.6 | 9810.6 | 10045.6 | 10145.5 | 10394.8 | 10616.7 | 11212.5 | 11788.9 | 10425.9 |
| 47.5° | 9600.3 | 9679.5 | 9963.8 | 10239.0 | 10558.3 | 10671.2 | 11124.3 | 11456.6 | 12247.1 | 12889.6 | 11283.9 |
| 50° | 9928.8 | 9989.8 | 10267.5 | 10699.8 | 11098.3 | 11243.7 | 11870.6 | 12347.0 | 13298.5 | 13938.4 | 12027.7 |
| 52.5° | 10387.0 | 10363.6 | 10598.5 | 11204.7 | 11739.5 | 11918.7 | 12667.6 | 13294.6 | 14364.2 | 14887.3 | 12656.0 |
| 55° | 10847.8 | 10808.8 | 10973.7 | 11733.0 | 12487.2 | 12675.4 | 13545.1 | 14246.1 | 15378.0 | 15741.4 | 13137.5 |
| 57.5° | 11360.5 | 11286.5 | 11425.4 | 12328.8 | 13338.7 | 13563.3 | 14527.7 | 15257.2 | 16374.9 | 16432.0 | 13443.9 |
| 60° | 11888.8 | 11788.9 | 11944.6 | 13067.4 | 14420.0 | 14684.8 | 15677.8 | 16243.8 | 17314.6 | 16984.9 | 13542.5 |
| 62.5° | 12350.9 | 12280.8 | 12521.0 | 13891.7 | 15638.9 | 15929.6 | 16807.1 | 17292.6 | 18241.4 | 17214.7 | 13186.9 |
| 65° | 12754.6 | 12766.3 | 13181.7 | 14818.5 | 16997.9 | 17308.1 | 18102.6 | 18585.4 | 18970.9 | 17078.4 | 12354.8 |
| 67.5° | 13236.2 | 13302.4 | 14011.1 | 16038.7 | 18708.7 | 19048.8 | 19987.3 | 19995.1 | 19378.5 | 16278.8 | 10716.7 |
| 70° | 13938.4 | 14074.7 | 15152.1 | 17731.3 | 21141.3 | 21608.6 | 22332.9 | 20823.3 | 18806.1 | 14111.1 | 8432.1 |
| 72.5° | 14561.5 | 14815.9 | 16365.8 | 19668.0 | 24106.0 | 24460.4 | 23704.9 | 20345.6 | 16413.8 | 10575.2 | 5253.2 |
| 74° | 14308.4 | 14623.8 | 16586.4 | 20622.1 | 25222.3 | 25392.4 | 23241.5 | 18951.5 | 13685.3 | 7323.6 | 3053.0 |
| 75° | 13763.2 | 14105.9 | 16264.5 | 20613.0 | 25080.8 | 24986.1 | 22122.6 | 17358.8 | 11270.9 | 4994.9 | 2031.4 |
| 77.5° | 11107.4 | 11469.5 | 13704.8 | 17666.4 | 20564.9 | 20475.4 | 16994.0 | 11644.8 | 4936.5 | 1638.1 | 1031.9 |
| 80° | 6457.8 | 6734.3 | 8507.4 | 11219.0 | 13867.0 | 14029.3 | 11176.2 | 5762.0 | 1941.9 | 920.3 | 699.6 |
| 82.5° | 2868.7 | 3059.5 | 4109.6 | 5727.0 | 8368.5 | 8577.5 | 5852.9 | 3019.3 | 1199.4 | 559.5 | 420.6 |
| 85° | 1882.2 | 2023.7 | 2494.8 | 2727.2 | 3985.0 | 4127.8 | 2864.8 | 2350.8 | 791.8 | 307.6 | 308.9 |
| 87.5° | 1353.9 | 1490.2 | 1853.6 | 1618.7 | 1828.9 | 1731.6 | 1559.0 | 2175.5 | 318.0 | 175.2 | 103.8 |
| 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: P320019

CATALOG NUMBER: GAN-SA5D-740-U-SL4

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6492.8 | 6492.8 | 6492.8 | 6492.8 | 6492.8 | 6492.8 | 6492.8 | 6492.8 | 6492.8 | 6492.8 | 6492.8 |
| 2.5° | 6431.8 | 6411.1 | 6364.3 | 6276.1 | 6226.7 | 6185.2 | 6116.4 | 6076.2 | 6058.0 | 6056.7 | 6064.5 |
| 5° | 6272.2 | 6224.1 | 6103.4 | 5955.4 | 5837.3 | 5729.6 | 5595.9 | 5515.4 | 5458.3 | 5424.5 | 5433.6 |
| 7.5° | 6086.5 | 6011.3 | 5821.7 | 5585.5 | 5396.0 | 5187.0 | 4980.6 | 4857.3 | 4761.2 | 4689.8 | 4702.8 |
| 10° | 5959.3 | 5855.5 | 5579.0 | 5238.9 | 4923.5 | 4619.7 | 4335.5 | 4165.4 | 4030.4 | 3926.6 | 3934.4 |
| 12.5° | 5916.5 | 5776.3 | 5393.4 | 4939.1 | 4496.4 | 4081.1 | 3709.8 | 3448.9 | 3310.0 | 3191.9 | 3201.0 |
| 15° | 5923.0 | 5734.8 | 5237.6 | 4669.1 | 4112.2 | 3589.1 | 3138.7 | 2833.6 | 2645.4 | 2563.6 | 2564.9 |
| 17.5° | 5928.2 | 5686.7 | 5074.1 | 4379.6 | 3731.9 | 3129.6 | 2640.2 | 2331.3 | 2153.5 | 2078.2 | 2079.5 |
| 20° | 5911.3 | 5608.9 | 4871.6 | 4047.3 | 3334.7 | 2707.7 | 2233.9 | 1971.7 | 1836.7 | 1778.3 | 1778.3 |
| 22.5° | 5889.2 | 5516.7 | 4643.1 | 3713.7 | 2942.7 | 2341.7 | 1943.2 | 1743.3 | 1665.4 | 1626.5 | 1625.2 |
| 25° | 5899.6 | 5447.9 | 4409.5 | 3371.0 | 2581.8 | 2049.6 | 1749.8 | 1617.4 | 1565.4 | 1540.8 | 1539.5 |
| 27.5° | 5955.4 | 5415.4 | 4194.0 | 3029.6 | 2266.4 | 1830.2 | 1620.0 | 1526.5 | 1492.8 | 1477.2 | 1477.2 |
| 30° | 6056.7 | 5415.4 | 3969.4 | 2738.9 | 2004.2 | 1668.0 | 1520.0 | 1456.4 | 1433.0 | 1422.7 | 1422.7 |
| 32.5° | 6233.2 | 5445.3 | 3752.7 | 2450.7 | 1795.2 | 1540.8 | 1436.9 | 1394.1 | 1375.9 | 1370.7 | 1370.7 |
| 35° | 6537.0 | 5546.6 | 3541.1 | 2178.1 | 1626.5 | 1436.9 | 1357.8 | 1333.1 | 1320.1 | 1318.8 | 1322.7 |
| 37.5° | 6964.0 | 5752.9 | 3342.5 | 1976.9 | 1507.0 | 1352.6 | 1291.6 | 1272.1 | 1264.3 | 1270.8 | 1276.0 |
| 40° | 7501.4 | 6033.3 | 3162.0 | 1795.2 | 1416.2 | 1285.1 | 1230.5 | 1217.6 | 1213.7 | 1222.8 | 1230.5 |
| 42.5° | 8150.4 | 6412.3 | 3014.1 | 1664.1 | 1346.1 | 1228.0 | 1178.6 | 1163.0 | 1159.2 | 1169.5 | 1179.9 |
| 45° | 8852.7 | 6819.9 | 2910.2 | 1566.7 | 1291.6 | 1185.1 | 1133.2 | 1116.3 | 1108.5 | 1113.7 | 1125.4 |
| 47.5° | 9491.3 | 7205.5 | 2868.7 | 1497.9 | 1239.6 | 1148.8 | 1093.0 | 1072.2 | 1059.2 | 1056.6 | 1065.7 |
| 50° | 10030.0 | 7492.3 | 2888.2 | 1456.4 | 1198.1 | 1108.5 | 1054.0 | 1030.6 | 1011.2 | 999.5 | 1006.0 |
| 52.5° | 10422.0 | 7672.8 | 2906.3 | 1438.2 | 1165.6 | 1064.4 | 1011.2 | 989.1 | 963.2 | 943.7 | 943.7 |
| 55° | 10706.3 | 7714.3 | 2866.1 | 1424.0 | 1141.0 | 1016.4 | 963.2 | 942.4 | 916.4 | 894.4 | 891.8 |
| 57.5° | 10817.9 | 7597.5 | 2716.8 | 1403.2 | 1124.1 | 970.9 | 912.5 | 896.9 | 874.9 | 848.9 | 847.6 |
| 60° | 10667.3 | 7236.6 | 2428.6 | 1359.1 | 1102.0 | 933.3 | 861.9 | 851.5 | 841.1 | 816.5 | 815.2 |
| 62.5° | 10062.5 | 6444.8 | 2056.1 | 1269.5 | 1057.9 | 893.1 | 815.2 | 820.4 | 821.7 | 804.8 | 802.2 |
| 65° | 8965.6 | 5357.0 | 1692.7 | 1152.7 | 991.7 | 845.0 | 767.1 | 791.8 | 806.1 | 803.5 | 799.6 |
| 67.5° | 7371.6 | 4169.3 | 1434.3 | 1029.4 | 904.7 | 778.8 | 715.2 | 743.8 | 755.5 | 764.5 | 762.0 |
| 70° | 5471.3 | 2940.1 | 1186.4 | 899.5 | 799.6 | 700.9 | 647.7 | 662.0 | 654.2 | 664.6 | 668.5 |
| 72.5° | 3050.4 | 1764.0 | 967.0 | 769.7 | 690.6 | 610.1 | 572.4 | 569.8 | 553.0 | 553.0 | 553.0 |
| 74° | 1830.2 | 1294.2 | 850.2 | 689.3 | 624.4 | 550.4 | 517.9 | 506.2 | 490.7 | 492.0 | 490.7 |
| 75° | 1472.0 | 1112.4 | 780.1 | 636.0 | 577.6 | 515.3 | 482.9 | 467.3 | 455.6 | 455.6 | 454.3 |
| 77.5° | 929.4 | 845.0 | 628.3 | 506.2 | 462.1 | 424.5 | 402.4 | 381.6 | 381.6 | 380.3 | 379.0 |
| 80° | 702.2 | 672.4 | 489.4 | 382.9 | 354.4 | 325.8 | 311.5 | 302.4 | 302.4 | 306.3 | 305.0 |
| 82.5° | 481.6 | 506.2 | 344.0 | 267.4 | 253.1 | 232.4 | 229.8 | 231.1 | 227.2 | 222.0 | 220.7 |
| 85° | 351.8 | 380.3 | 232.4 | 168.7 | 154.5 | 141.5 | 151.9 | 157.1 | 150.6 | 138.9 | 133.7 |
| 87.5° | 135.0 | 249.2 | 124.6 | 70.1 | 64.9 | 55.8 | 64.9 | 67.5 | 72.7 | 57.1 | 58.4 |
| 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)