

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: P323497

Luminaire Tested: **GAN-SA3D-730-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18430 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

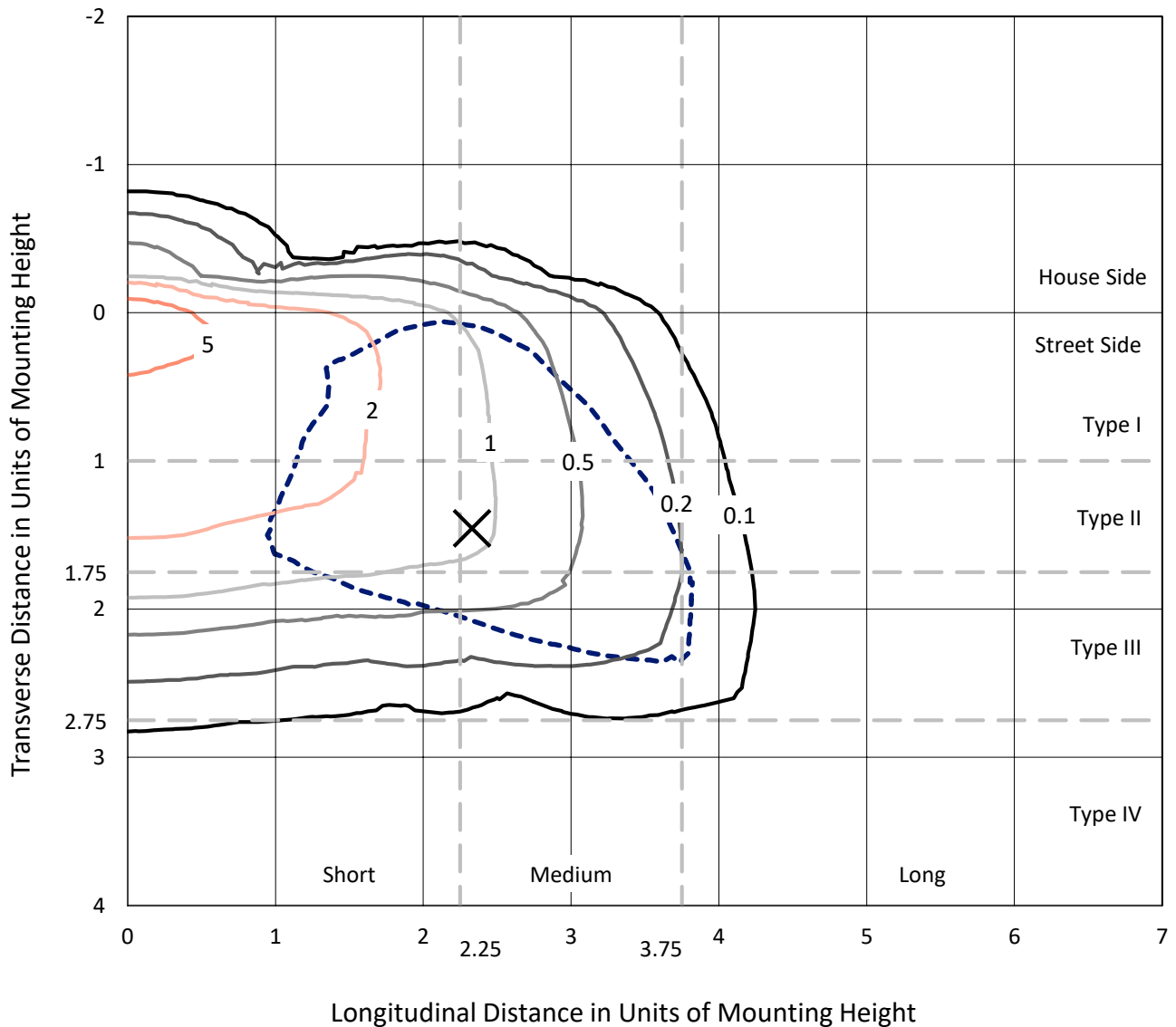
Input Watts (W): 191
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323497
 CATALOG NUMBER: GAN-SA3D-730-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

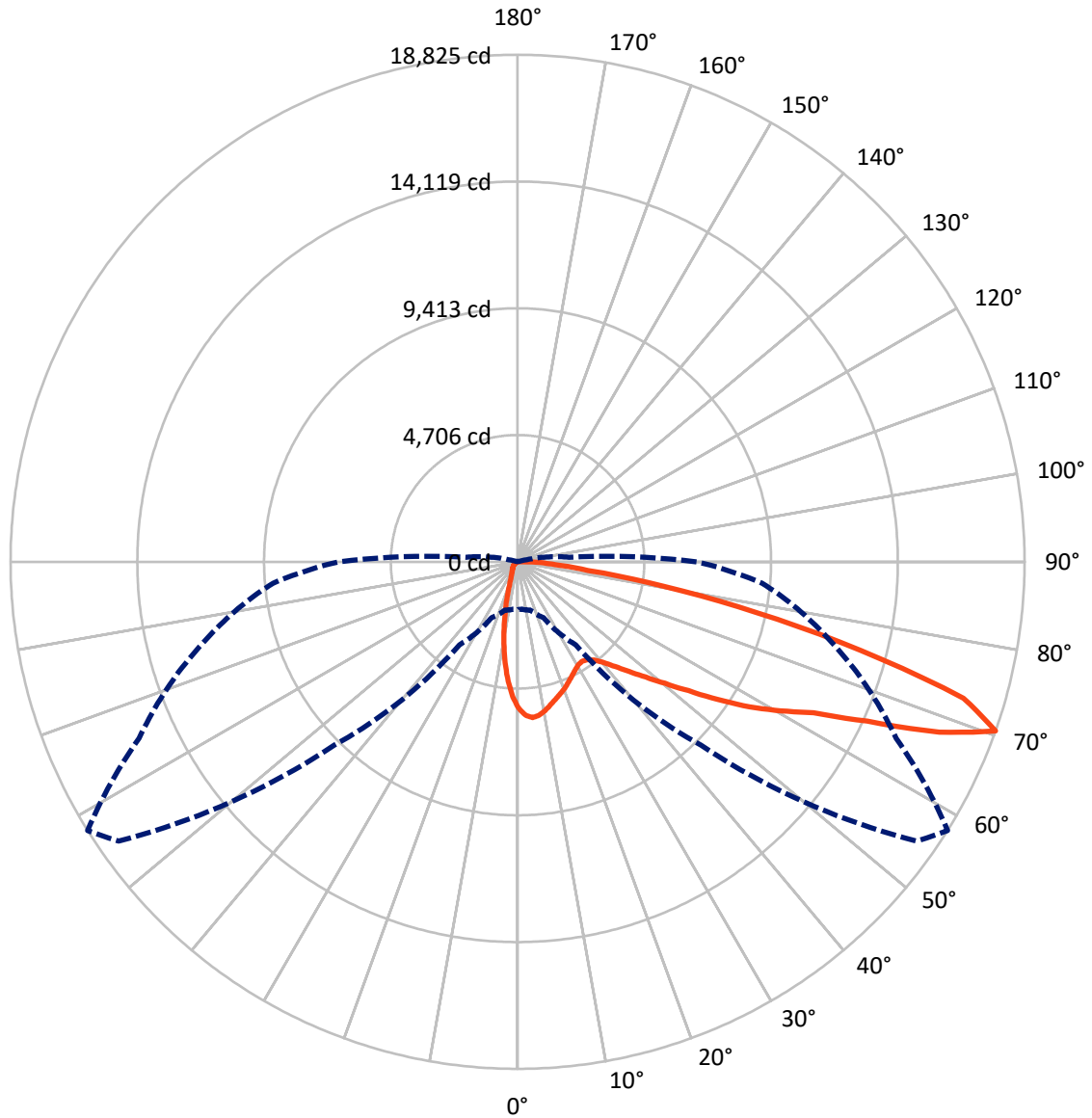
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P323497
CATALOG NUMBER: GAN-SA3D-730-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P323497
 CATALOG NUMBER: GAN-SA3D-730-U-SL3-HSS

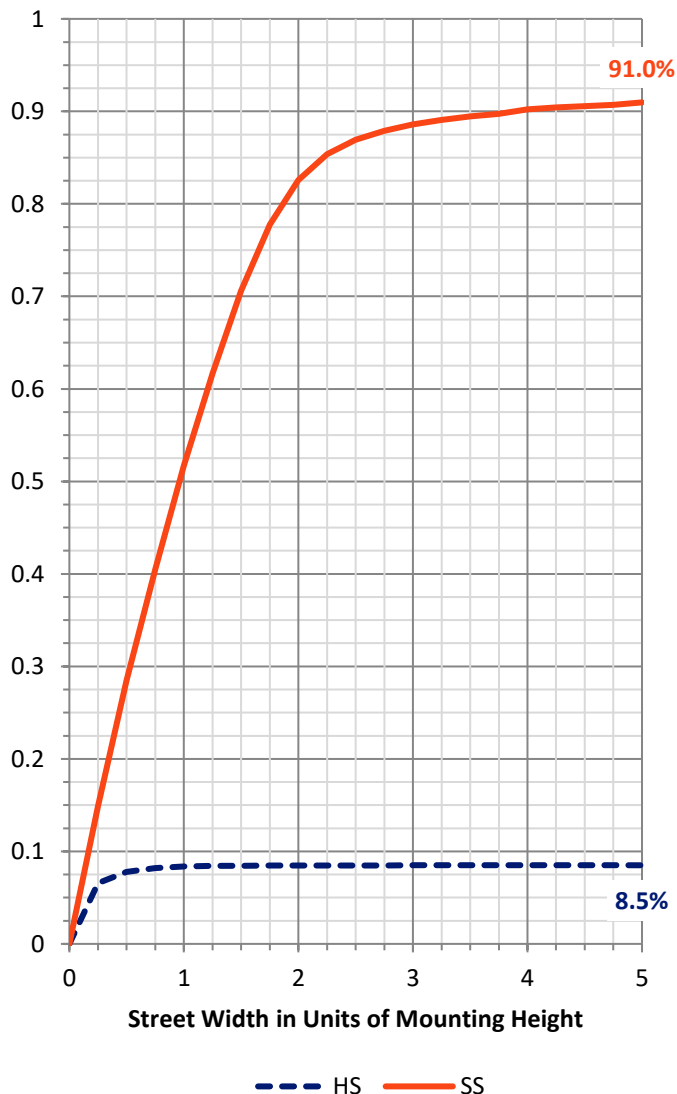
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1577.2 | 0.0 | 1577.2 |
| | % Fixture | 8.6 | 0.0 | 8.6 |
| Street Side | Lumens | 16852.8 | 0.0 | 16852.8 |
| | % Fixture | 91.4 | 0.0 | 91.4 |
| Total | Lumens | 18430.0 | 0.0 | 18430.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 445.2 | 2.4 |
| 10°-20° | 934.4 | 5.1 |
| 20°-30° | 1228.3 | 6.7 |
| 30°-40° | 1626.8 | 8.8 |
| 40°-50° | 2431.6 | 13.2 |
| 50°-60° | 3895.3 | 21.1 |
| 60°-70° | 4910.0 | 26.6 |
| 70°-80° | 2648.4 | 14.4 |
| 80°-90° | 310.0 | 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° | 18430.0 | 100.0 |
| 0°-180° | 18430.0 | 100.0 |

Coefficient of Utilization

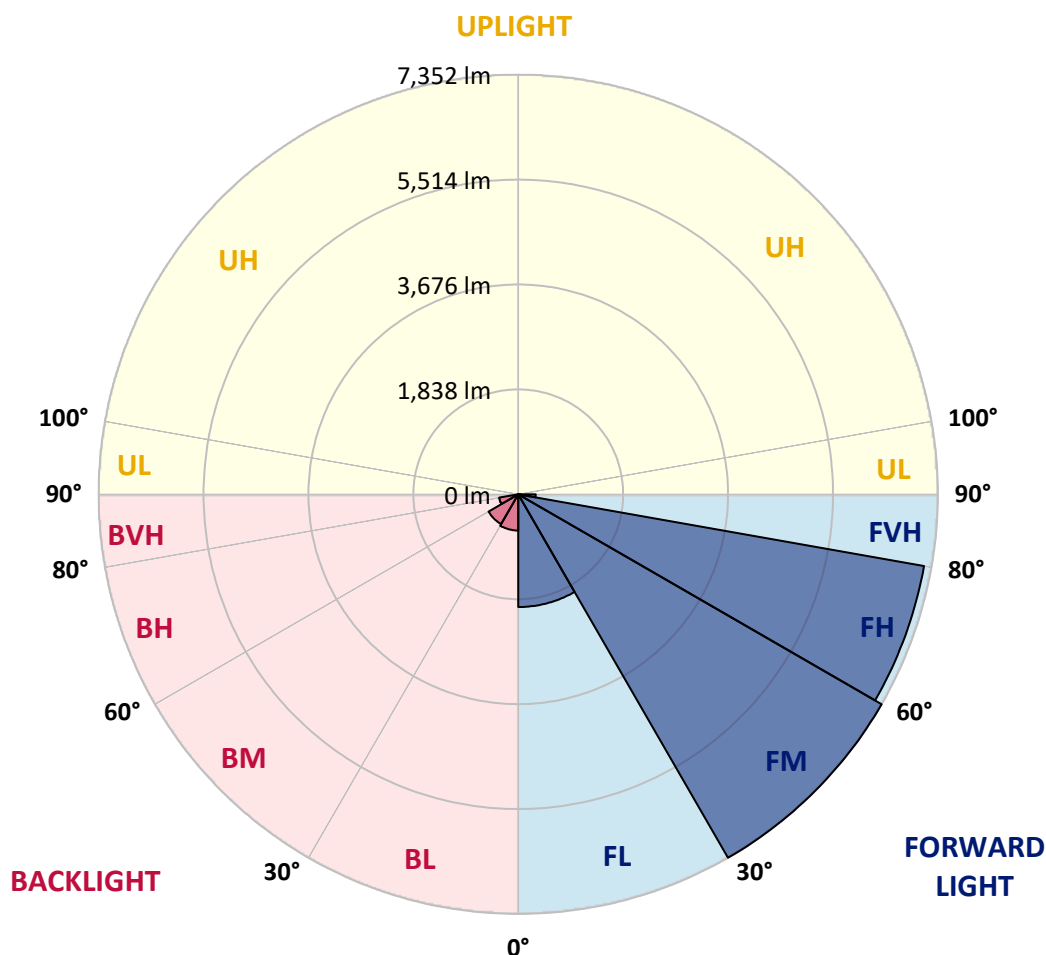


REPORT NUMBER: P323497
 CATALOG NUMBER: GAN-SA3D-730-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1974.2 | 10.7 | | | |
| FM (30°-60°) | 7352.0 | 39.9 | | | |
| FH (60°-80°) | 7219.2 | 39.2 | | | G3/7500 |
| FVH (80°-90°) | 307.3 | 1.7 | | | G3/500 |
| BL (0°-30°) | 633.7 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 601.7 | 3.3 | B1/1000 | | |
| BH (60°-80°) | 339.2 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.7 | 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 III Medium





REPORT NUMBER: P323497
 CATALOG NUMBER: GAN-SA3D-730-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 5444.1 | 5444.1 | 5444.1 | 5444.1 | 5444.1 | 5444.1 | 5444.1 | 5444.1 | 5444.1 | 5444.1 | 5444.1 |
| 2.5° | 5895.5 | 5881.0 | 5875.6 | 5866.4 | 5831.1 | 5796.7 | 5728.4 | 5709.3 | 5666.4 | 5564.5 | 5456.4 |
| 5° | 5900.1 | 5899.3 | 5915.4 | 5911.6 | 5899.3 | 5883.3 | 5834.2 | 5808.9 | 5736.1 | 5590.5 | 5392.8 |
| 7.5° | 5615.8 | 5630.4 | 5666.4 | 5695.5 | 5729.2 | 5772.9 | 5779.0 | 5754.5 | 5694.7 | 5537.6 | 5275.5 |
| 10° | 5234.2 | 5257.1 | 5307.7 | 5365.2 | 5453.3 | 5540.7 | 5618.9 | 5615.8 | 5595.1 | 5440.3 | 5134.5 |
| 12.5° | 4851.7 | 4878.6 | 4936.8 | 5021.9 | 5146.8 | 5289.3 | 5428.8 | 5448.0 | 5482.5 | 5352.9 | 5004.3 |
| 15° | 4516.9 | 4539.8 | 4597.3 | 4701.5 | 4856.3 | 5047.9 | 5252.5 | 5287.8 | 5376.7 | 5284.7 | 4895.4 |
| 17.5° | 4232.5 | 4247.1 | 4289.2 | 4405.0 | 4584.3 | 4816.5 | 5082.4 | 5151.4 | 5284.0 | 5231.1 | 4801.2 |
| 20° | 4034.1 | 4036.4 | 4063.9 | 4145.2 | 4324.5 | 4584.3 | 4906.2 | 5005.0 | 5185.9 | 5185.1 | 4703.8 |
| 22.5° | 3936.0 | 3928.3 | 3933.7 | 3980.4 | 4112.2 | 4362.8 | 4729.9 | 4847.1 | 5097.7 | 5146.0 | 4605.0 |
| 25° | 3917.6 | 3911.4 | 3896.1 | 3902.2 | 3981.9 | 4168.9 | 4552.1 | 4687.7 | 5020.3 | 5122.3 | 4519.2 |
| 27.5° | 3975.0 | 3981.2 | 3955.1 | 3927.5 | 3933.7 | 4043.3 | 4394.2 | 4551.3 | 4957.5 | 5122.3 | 4458.6 |
| 30° | 4090.8 | 4093.8 | 4074.7 | 4038.7 | 3990.4 | 4008.0 | 4284.7 | 4441.8 | 4926.1 | 5157.5 | 4420.3 |
| 32.5° | 4218.7 | 4235.6 | 4233.3 | 4204.2 | 4135.2 | 4063.9 | 4258.6 | 4401.9 | 4923.8 | 5235.7 | 4416.5 |
| 35° | 4377.4 | 4396.5 | 4428.7 | 4422.6 | 4350.6 | 4233.3 | 4347.5 | 4460.1 | 4969.0 | 5364.4 | 4457.8 |
| 37.5° | 4546.0 | 4575.1 | 4644.1 | 4677.0 | 4630.3 | 4497.7 | 4546.7 | 4627.2 | 5090.1 | 5572.9 | 4562.8 |
| 40° | 4709.2 | 4742.2 | 4867.8 | 4997.4 | 4962.1 | 4825.7 | 4848.7 | 4913.1 | 5305.4 | 5872.5 | 4762.1 |
| 42.5° | 4869.4 | 4918.4 | 5103.1 | 5316.2 | 5358.3 | 5249.5 | 5261.7 | 5313.1 | 5625.0 | 6284.8 | 5087.8 |
| 45° | 5061.0 | 5116.1 | 5389.7 | 5652.6 | 5765.2 | 5717.7 | 5769.8 | 5803.6 | 6042.7 | 6829.7 | 5526.9 |
| 47.5° | 5342.2 | 5405.8 | 5741.5 | 6041.1 | 6238.8 | 6269.5 | 6374.5 | 6396.7 | 6570.7 | 7464.2 | 6099.4 |
| 50° | 5890.9 | 5908.5 | 6212.0 | 6484.1 | 6769.2 | 6953.1 | 7072.6 | 7089.5 | 7209.8 | 8157.8 | 6814.4 |
| 52.5° | 6581.4 | 6592.9 | 6764.6 | 6946.9 | 7271.1 | 7646.6 | 7926.3 | 7950.1 | 7975.4 | 8833.7 | 7520.2 |
| 55° | 7267.3 | 7265.7 | 7379.2 | 7486.5 | 7857.4 | 8403.0 | 9010.0 | 9024.5 | 8842.9 | 9475.1 | 8059.7 |
| 57.5° | 7695.7 | 7737.0 | 7909.5 | 8047.4 | 8565.5 | 9265.1 | 10107.4 | 10161.0 | 9754.1 | 9950.3 | 8593.1 |
| 60° | 7559.3 | 7579.2 | 7961.6 | 8472.0 | 9447.5 | 10490.5 | 11217.8 | 11231.6 | 10439.2 | 10424.6 | 9267.4 |
| 62.5° | 6440.4 | 6451.1 | 7051.9 | 8104.1 | 9894.3 | 12079.9 | 12557.4 | 12332.8 | 11227.0 | 11082.9 | 10074.4 |
| 65° | 4414.2 | 4483.9 | 4985.9 | 6286.4 | 9073.6 | 13077.0 | 14631.1 | 14259.4 | 12427.9 | 12031.7 | 10804.0 |
| 67.5° | 2599.5 | 2584.9 | 2833.2 | 3791.1 | 6664.2 | 12414.8 | 17254.3 | 16884.9 | 14065.5 | 12667.0 | 10590.2 |
| 70° | 1775.6 | 1765.7 | 1860.7 | 2295.2 | 3762.0 | 9630.7 | 18079.7 | 18825.3 | 15511.6 | 12239.3 | 9114.2 |
| 72.5° | 1267.5 | 1272.9 | 1413.1 | 1783.3 | 2361.9 | 5611.2 | 15547.7 | 17312.6 | 15058.7 | 10669.9 | 6927.8 |
| 75° | 860.6 | 875.2 | 1076.0 | 1463.0 | 2070.7 | 2854.6 | 11033.1 | 13160.5 | 12262.3 | 7754.7 | 3981.9 |
| 77.5° | 462.9 | 479.0 | 715.8 | 1178.6 | 1872.2 | 1983.3 | 7097.1 | 9057.5 | 7702.6 | 3486.1 | 1154.1 |
| 80° | 193.1 | 202.3 | 334.9 | 856.8 | 1617.8 | 1741.9 | 4175.8 | 5492.4 | 3282.3 | 687.4 | 257.5 |
| 82.5° | 83.5 | 88.1 | 139.5 | 511.2 | 1209.3 | 1470.6 | 2210.9 | 2642.4 | 994.7 | 151.0 | 129.5 |
| 85° | 16.1 | 16.9 | 57.5 | 270.5 | 771.7 | 830.0 | 1433.1 | 1404.7 | 446.8 | 65.1 | 94.3 |
| 87.5° | 0.0 | 0.0 | 13.8 | 85.1 | 226.8 | 452.1 | 874.4 | 863.7 | 151.7 | 31.4 | 35.3 |
| 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: P323497
 CATALOG NUMBER: GAN-SA3D-730-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5444.1 | 5444.1 | 5444.1 | 5444.1 | 5444.1 | 5444.1 | 5444.1 | 5444.1 | 5444.1 | 5444.1 | 5444.1 |
| 2.5° | 5401.2 | 5348.3 | 5237.2 | 5100.0 | 4995.1 | 4879.3 | 4787.4 | 4670.9 | 4620.3 | 4622.6 | 4595.0 |
| 5° | 5280.1 | 5171.3 | 4925.3 | 4614.9 | 4375.8 | 4129.1 | 3916.8 | 3705.3 | 3580.4 | 3539.8 | 3501.4 |
| 7.5° | 5106.9 | 4934.5 | 4542.1 | 4063.9 | 3659.3 | 3263.9 | 2919.8 | 2617.1 | 2425.5 | 2332.0 | 2297.5 |
| 10° | 4911.5 | 4669.4 | 4101.5 | 3471.6 | 2893.7 | 2358.8 | 1912.8 | 1525.0 | 1370.2 | 1265.2 | 1238.4 |
| 12.5° | 4739.9 | 4411.9 | 3670.8 | 2863.8 | 2178.0 | 1532.7 | 1107.4 | 866.0 | 761.0 | 719.6 | 712.7 |
| 15° | 4578.2 | 4171.2 | 3256.2 | 2313.6 | 1508.2 | 943.4 | 704.3 | 622.3 | 597.8 | 590.9 | 590.9 |
| 17.5° | 4425.7 | 3942.1 | 2850.8 | 1771.8 | 997.8 | 661.4 | 583.2 | 564.8 | 557.1 | 556.4 | 557.1 |
| 20° | 4266.3 | 3713.0 | 2452.3 | 1298.2 | 696.6 | 560.2 | 538.7 | 528.8 | 526.5 | 526.5 | 526.5 |
| 22.5° | 4113.8 | 3483.8 | 2064.5 | 927.3 | 558.7 | 511.2 | 500.4 | 493.5 | 491.2 | 490.5 | 488.9 |
| 25° | 3967.4 | 3266.2 | 1686.0 | 655.2 | 490.5 | 468.2 | 459.0 | 449.8 | 442.9 | 439.1 | 436.8 |
| 27.5° | 3847.1 | 3072.3 | 1333.4 | 525.7 | 442.9 | 423.8 | 412.3 | 398.5 | 381.6 | 374.0 | 370.9 |
| 30° | 3751.3 | 2895.3 | 1027.7 | 443.7 | 398.5 | 379.3 | 361.7 | 338.0 | 313.4 | 300.4 | 299.6 |
| 32.5° | 3676.2 | 2721.3 | 780.1 | 392.4 | 358.7 | 334.9 | 309.6 | 279.7 | 251.4 | 236.8 | 236.0 |
| 35° | 3639.4 | 2568.0 | 596.2 | 354.8 | 323.4 | 293.5 | 262.1 | 229.1 | 201.5 | 187.8 | 186.2 |
| 37.5° | 3663.9 | 2438.5 | 465.2 | 323.4 | 293.5 | 259.0 | 222.2 | 187.8 | 163.2 | 151.0 | 150.2 |
| 40° | 3753.6 | 2355.8 | 377.8 | 296.6 | 268.2 | 226.1 | 186.2 | 154.0 | 133.3 | 123.4 | 122.6 |
| 42.5° | 3944.4 | 2325.1 | 322.6 | 274.4 | 243.7 | 195.4 | 154.8 | 127.2 | 108.1 | 101.2 | 99.6 |
| 45° | 4263.2 | 2370.3 | 285.1 | 252.9 | 218.4 | 166.3 | 128.0 | 104.2 | 87.4 | 82.0 | 81.2 |
| 47.5° | 4687.7 | 2489.1 | 258.3 | 232.2 | 195.4 | 140.2 | 106.5 | 84.3 | 71.3 | 65.9 | 65.1 |
| 50° | 5234.9 | 2677.6 | 236.0 | 211.5 | 174.0 | 118.8 | 88.1 | 66.7 | 55.2 | 51.3 | 51.3 |
| 52.5° | 5830.4 | 2902.2 | 216.1 | 192.4 | 152.5 | 98.9 | 71.3 | 51.3 | 43.7 | 39.1 | 39.1 |
| 55° | 6322.4 | 3098.3 | 194.7 | 177.8 | 126.4 | 82.0 | 54.4 | 39.1 | 32.2 | 29.9 | 29.9 |
| 57.5° | 6813.6 | 3307.6 | 170.1 | 152.5 | 101.2 | 66.7 | 41.4 | 29.1 | 23.8 | 22.2 | 22.2 |
| 60° | 7450.4 | 3563.5 | 146.4 | 124.1 | 79.7 | 50.6 | 30.7 | 20.7 | 17.6 | 16.9 | 16.9 |
| 62.5° | 8150.9 | 3713.7 | 124.9 | 99.6 | 62.1 | 37.6 | 22.2 | 13.8 | 13.0 | 13.0 | 12.3 |
| 65° | 8579.3 | 3501.4 | 105.0 | 79.7 | 48.3 | 28.4 | 14.6 | 10.0 | 11.5 | 10.7 | 9.2 |
| 67.5° | 8032.9 | 2741.2 | 85.8 | 62.1 | 37.6 | 21.5 | 9.2 | 6.9 | 12.3 | 10.0 | 7.7 |
| 70° | 6651.1 | 1918.9 | 66.7 | 43.7 | 29.9 | 18.4 | 6.1 | 4.6 | 13.0 | 10.0 | 6.1 |
| 72.5° | 4977.4 | 1284.4 | 52.9 | 29.1 | 22.2 | 16.1 | 5.4 | 2.3 | 11.5 | 8.4 | 5.4 |
| 75° | 2719.8 | 517.3 | 42.1 | 18.4 | 13.8 | 11.5 | 3.8 | 1.5 | 7.7 | 6.1 | 3.8 |
| 77.5° | 715.8 | 136.4 | 30.7 | 12.3 | 7.7 | 4.6 | 2.3 | 0.8 | 3.8 | 3.1 | 1.5 |
| 80° | 182.4 | 52.9 | 19.9 | 8.4 | 5.4 | 2.3 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 |
| 82.5° | 97.3 | 22.2 | 12.3 | 6.1 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 73.6 | 14.6 | 6.9 | 3.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 28.4 | 4.6 | 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)