

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: P457867

Luminaire Tested: **GLAN-SA9B-727-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9B-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31673 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

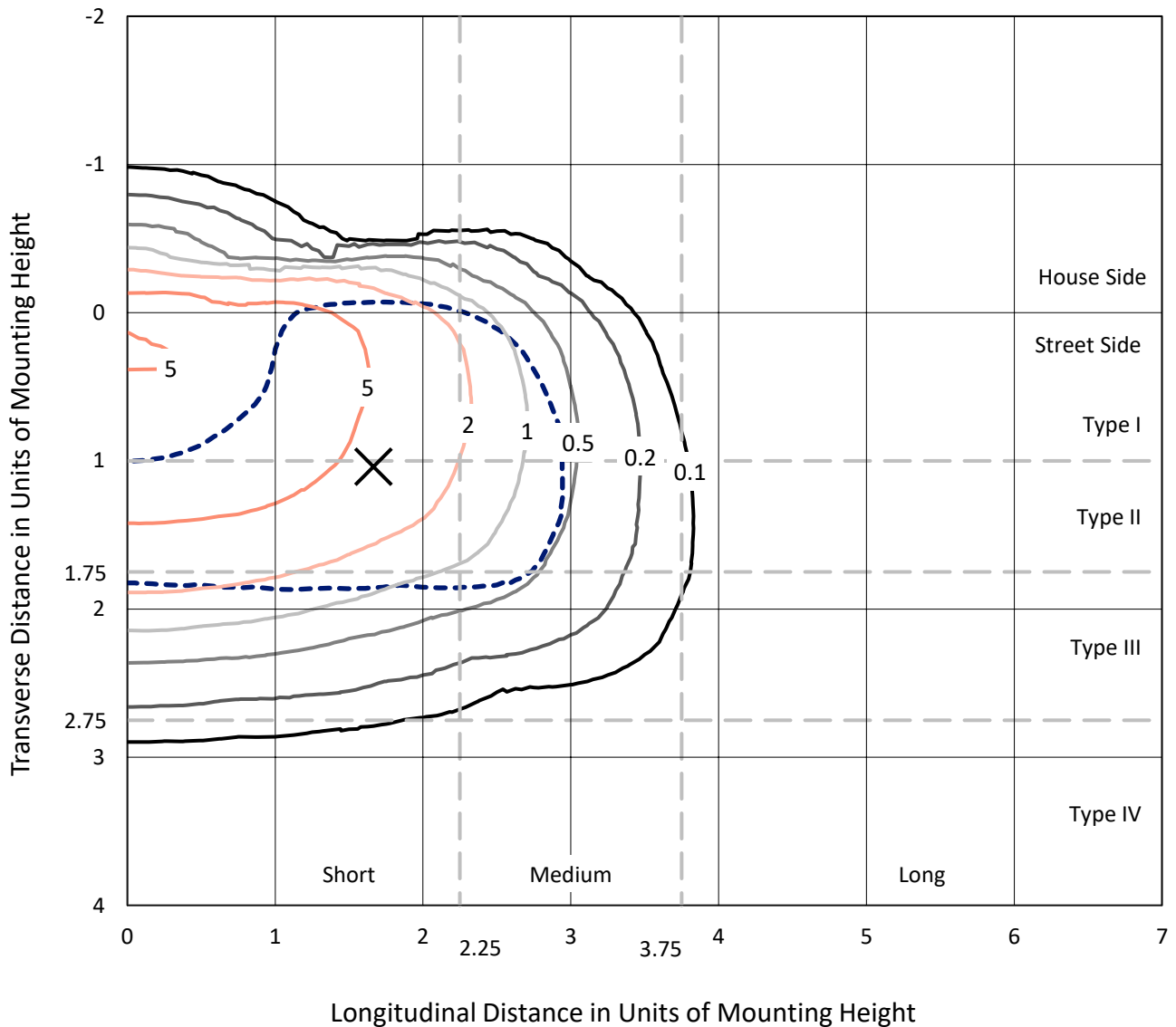
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457867
 CATALOG NUMBER: GLAN-SA9B-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

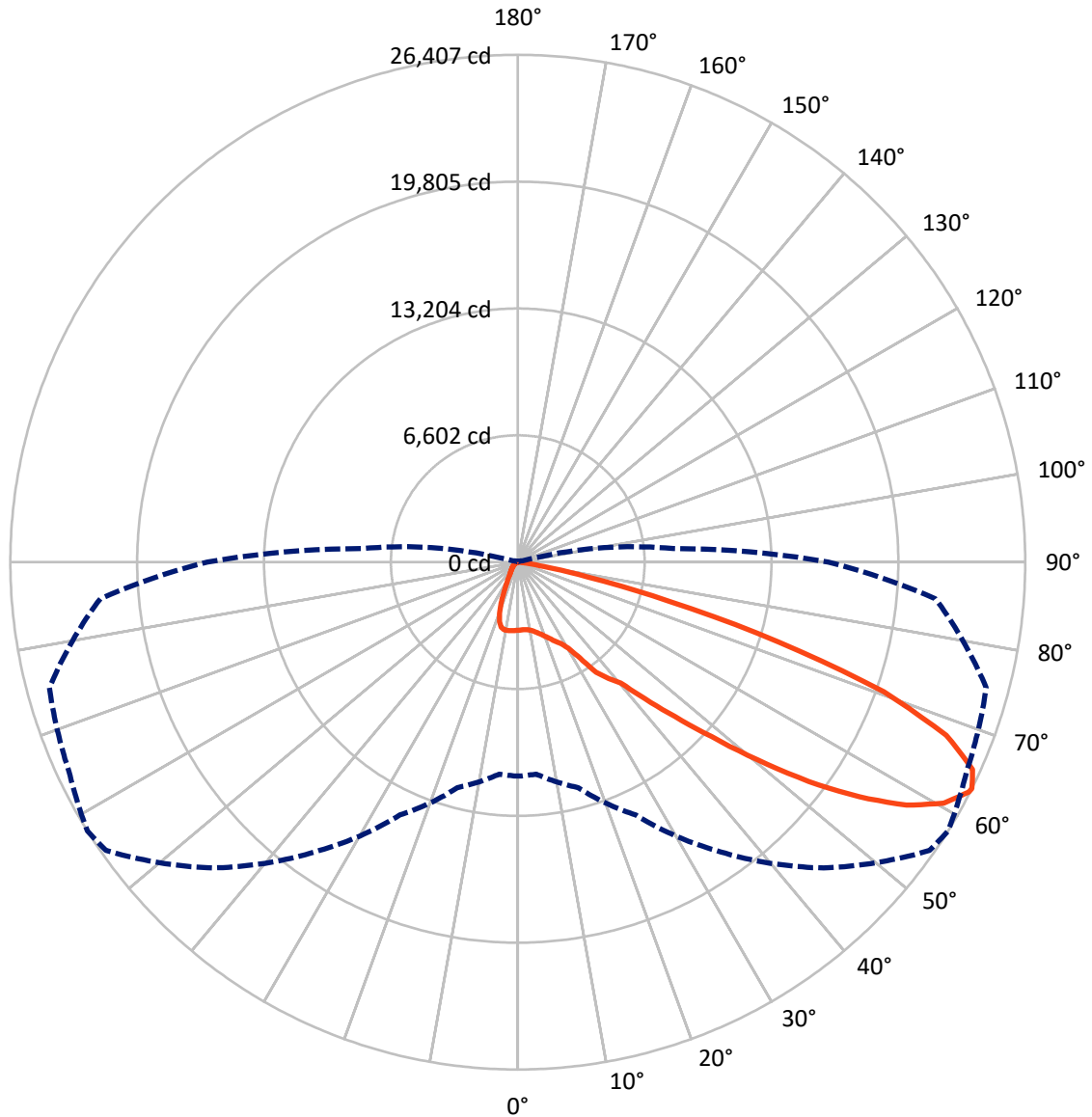
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - N/A

REPORT NUMBER: P457867
CATALOG NUMBER: GLAN-SA9B-727-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P457867

CATALOG NUMBER: GLAN-SA9B-727-U-T3-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3279.5 | 0.0 | 3279.5 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 28393.5 | 0.0 | 28393.5 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 31673.0 | 0.0 | 31673.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 331.9 | 1.0 |
| 10°-20° | 904.1 | 2.9 |
| 20°-30° | 1569.1 | 5.0 |
| 30°-40° | 2883.4 | 9.1 |
| 40°-50° | 5428.0 | 17.1 |
| 50°-60° | 9284.1 | 29.3 |
| 60°-70° | 8889.6 | 28.1 |
| 70°-80° | 2266.9 | 7.2 |
| 80°-90° | 115.9 | 0.4 |
| 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° | 31673.0 | 100.0 |
| 0°-180° | 31673.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P457867

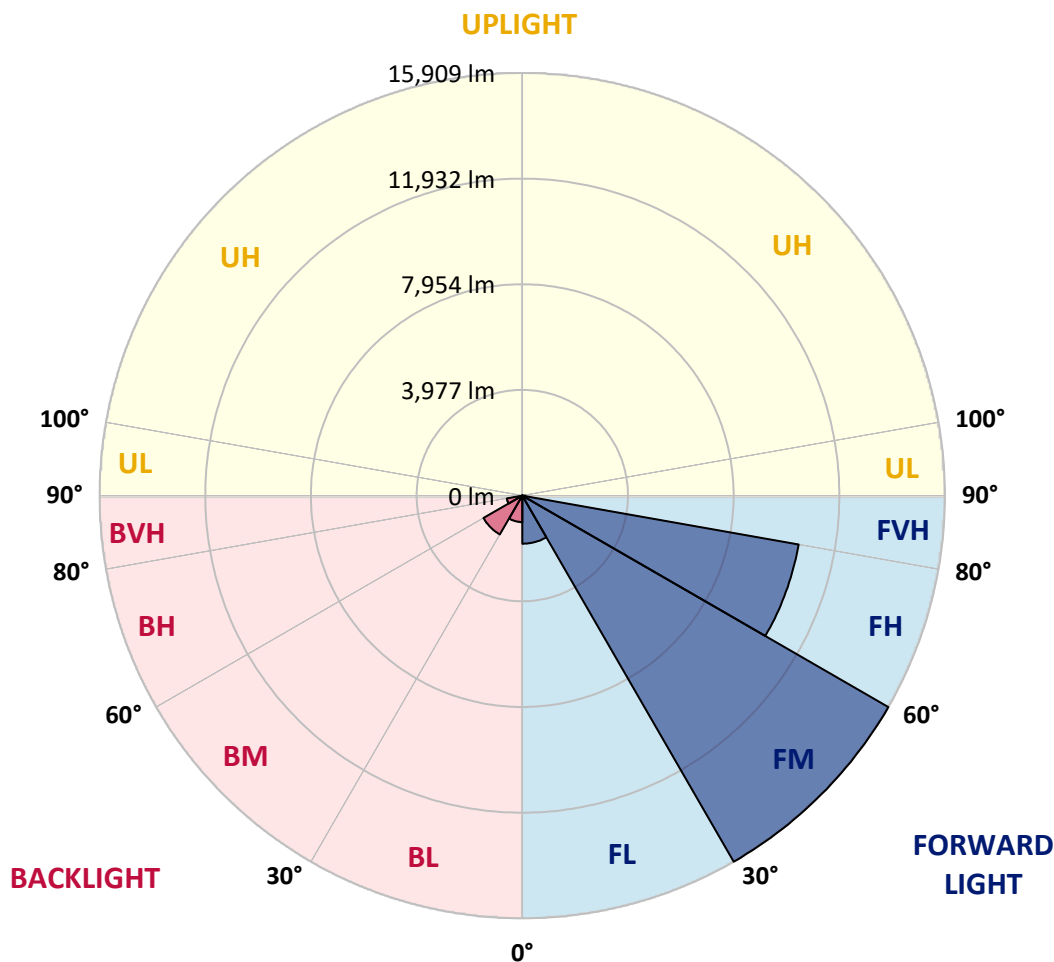
CATALOG NUMBER: GLAN-SA9B-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1810.6 | 5.7 | | | |
| FM | (30°-60°) | 15908.7 | 50.2 | | | |
| FH | (60°-80°) | 10562.8 | 33.3 | | | G4/12000 |
| FVH | (80°-90°) | 111.4 | 0.4 | | | G2/225 |
| BL | (0°-30°) | 994.6 | 3.1 | B2/1000 | | |
| BM | (30°-60°) | 1686.8 | 5.3 | B2/2500 | | |
| BH | (60°-80°) | 593.7 | 1.9 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 4.5 | 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-G4

Type III Short





REPORT NUMBER: P457867

CATALOG NUMBER: GLAN-SA9B-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3545.9 | 3545.9 | 3545.9 | 3545.9 | 3545.9 | 3545.9 | 3545.9 | 3545.9 | 3545.9 | 3545.9 | 3545.9 |
| 2.5° | 3457.7 | 3469.6 | 3481.5 | 3486.3 | 3503.0 | 3519.7 | 3531.6 | 3529.2 | 3548.3 | 3557.8 | 3557.8 |
| 5° | 3319.4 | 3319.4 | 3350.4 | 3379.0 | 3426.7 | 3474.4 | 3519.7 | 3529.2 | 3565.0 | 3598.4 | 3610.3 |
| 7.5° | 3202.5 | 3209.7 | 3233.5 | 3286.0 | 3350.4 | 3433.8 | 3524.5 | 3545.9 | 3607.9 | 3681.8 | 3712.8 |
| 10° | 3147.7 | 3152.5 | 3183.5 | 3238.3 | 3319.4 | 3433.8 | 3560.2 | 3600.8 | 3696.1 | 3813.0 | 3855.9 |
| 12.5° | 3135.8 | 3142.9 | 3173.9 | 3235.9 | 3328.9 | 3467.2 | 3638.9 | 3681.8 | 3820.1 | 3970.4 | 4034.8 |
| 15° | 3157.2 | 3162.0 | 3193.0 | 3259.8 | 3362.3 | 3526.8 | 3743.8 | 3803.5 | 3968.0 | 4142.1 | 4225.5 |
| 17.5° | 3233.5 | 3228.8 | 3250.2 | 3305.1 | 3419.5 | 3600.8 | 3870.2 | 3941.8 | 4134.9 | 4373.4 | 4428.2 |
| 20° | 3557.8 | 3526.8 | 3507.8 | 3460.1 | 3505.4 | 3705.7 | 4022.8 | 4127.8 | 4366.2 | 4609.5 | 4647.6 |
| 22.5° | 4256.5 | 4187.4 | 4051.5 | 3865.5 | 3722.4 | 3848.8 | 4206.5 | 4328.1 | 4635.7 | 4874.1 | 4874.1 |
| 25° | 5146.0 | 5057.8 | 4921.8 | 4516.5 | 4165.9 | 4084.8 | 4413.9 | 4566.5 | 4929.0 | 5169.8 | 5091.1 |
| 27.5° | 6259.6 | 6190.4 | 5925.8 | 5453.6 | 4917.1 | 4497.4 | 4654.8 | 4795.5 | 5188.9 | 5479.8 | 5315.3 |
| 30° | 7165.8 | 7132.4 | 6915.4 | 6493.3 | 5901.9 | 5289.1 | 5103.1 | 5196.1 | 5534.7 | 5870.9 | 5701.6 |
| 32.5° | 7931.2 | 7931.2 | 7709.4 | 7316.0 | 6762.8 | 6219.1 | 5863.8 | 5930.5 | 6254.8 | 6643.5 | 6328.8 |
| 35° | 8773.0 | 8744.4 | 8565.5 | 8191.1 | 7571.1 | 7091.8 | 6946.4 | 7037.0 | 7330.3 | 7618.8 | 6843.8 |
| 37.5° | 9657.7 | 9648.1 | 9462.1 | 9099.7 | 8594.1 | 7990.8 | 7649.8 | 7673.7 | 7823.9 | 8000.4 | 7447.1 |
| 40° | 10618.7 | 10633.0 | 10389.7 | 10165.6 | 9688.7 | 9071.1 | 8417.7 | 8267.4 | 8408.1 | 8906.5 | 8560.7 |
| 42.5° | 11753.7 | 11720.4 | 11615.4 | 11310.2 | 10926.3 | 10556.7 | 9772.1 | 9717.3 | 9841.3 | 10375.4 | 10001.1 |
| 45° | 13072.4 | 13120.1 | 12938.9 | 12769.6 | 12512.0 | 12204.4 | 11548.7 | 11453.3 | 11589.2 | 12419.0 | 11887.3 |
| 47.5° | 14393.5 | 14348.2 | 14465.0 | 14434.0 | 14572.4 | 14343.4 | 13764.0 | 13568.4 | 13895.1 | 14682.0 | 13899.9 |
| 50° | 15399.8 | 15449.9 | 15693.1 | 16048.4 | 16642.2 | 16771.0 | 16215.3 | 16148.6 | 16294.0 | 16799.6 | 15700.3 |
| 52.5° | 16053.2 | 16220.1 | 16601.7 | 17515.0 | 18585.6 | 19417.9 | 18995.8 | 18960.0 | 18900.4 | 19036.3 | 17422.0 |
| 55° | 16480.0 | 16649.3 | 17147.7 | 18492.6 | 20336.0 | 21688.0 | 21709.5 | 21556.9 | 21163.4 | 21065.6 | 19031.6 |
| 57.5° | 16217.7 | 16251.1 | 16961.7 | 18759.7 | 21306.5 | 23307.2 | 24008.3 | 23855.6 | 23128.3 | 22758.7 | 20452.8 |
| 60° | 14577.1 | 14646.3 | 15635.9 | 17748.7 | 20884.4 | 23836.6 | 25532.0 | 25462.9 | 24666.4 | 24249.1 | 21559.3 |
| 62.5° | 11670.3 | 11870.6 | 12888.8 | 15244.8 | 18921.9 | 22944.7 | 26149.6 | 26345.2 | 25725.2 | 25150.5 | 21907.4 |
| 63° | 11136.1 | 11071.7 | 12147.2 | 14515.1 | 18402.0 | 22503.6 | 26159.2 | 26407.2 | 25772.9 | 25236.3 | 21812.0 |
| 65° | 8243.6 | 8436.7 | 9135.4 | 11446.1 | 15314.0 | 20450.4 | 25570.2 | 26008.9 | 25596.4 | 24857.2 | 20755.6 |
| 67.5° | 4628.5 | 4619.0 | 5391.6 | 7490.1 | 10718.8 | 16041.3 | 23121.2 | 24048.8 | 23962.9 | 22305.6 | 17205.0 |
| 70° | 2265.4 | 2301.1 | 2618.3 | 3882.1 | 6216.7 | 11067.0 | 19212.8 | 20214.3 | 20245.3 | 17519.7 | 11896.8 |
| 72.5° | 1025.4 | 1042.1 | 1268.6 | 1891.0 | 3195.4 | 5892.4 | 13239.4 | 14195.6 | 14019.1 | 11164.7 | 6569.6 |
| 75° | 541.3 | 577.1 | 698.7 | 951.5 | 1540.5 | 2429.9 | 7201.5 | 8126.8 | 7757.1 | 5100.7 | 2418.0 |
| 77.5° | 400.6 | 412.5 | 474.5 | 605.7 | 825.1 | 946.7 | 3107.1 | 3696.1 | 3462.5 | 1845.7 | 801.2 |
| 80° | 293.3 | 302.8 | 352.9 | 429.2 | 519.8 | 481.7 | 1170.8 | 1342.5 | 1204.2 | 627.2 | 245.6 |
| 82.5° | 178.8 | 181.2 | 257.5 | 319.5 | 326.7 | 269.5 | 386.3 | 414.9 | 434.0 | 352.9 | 133.5 |
| 85° | 64.4 | 81.1 | 174.1 | 231.3 | 193.2 | 135.9 | 162.2 | 178.8 | 195.5 | 224.2 | 78.7 |
| 87.5° | 7.2 | 9.5 | 83.5 | 112.1 | 54.8 | 50.1 | 59.6 | 66.8 | 71.5 | 83.5 | 38.2 |
| 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: P457867
 CATALOG NUMBER: GLAN-SA9B-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3545.9 | 3545.9 | 3545.9 | 3545.9 | 3545.9 | 3545.9 | 3545.9 | 3545.9 | 3545.9 | 3545.9 | 3545.9 |
| 2.5° | 3567.4 | 3576.9 | 3569.8 | 3557.8 | 3555.5 | 3548.3 | 3534.0 | 3534.0 | 3534.0 | 3538.8 | 3534.0 |
| 5° | 3619.8 | 3627.0 | 3610.3 | 3586.5 | 3560.2 | 3526.8 | 3491.1 | 3469.6 | 3467.2 | 3462.5 | 3450.5 |
| 7.5° | 3720.0 | 3729.5 | 3691.4 | 3634.1 | 3562.6 | 3481.5 | 3405.2 | 3333.7 | 3300.3 | 3274.1 | 3274.1 |
| 10° | 3865.5 | 3875.0 | 3798.7 | 3696.1 | 3553.1 | 3388.5 | 3207.3 | 3042.8 | 2914.0 | 2854.4 | 2840.1 |
| 12.5° | 4039.5 | 4044.3 | 3917.9 | 3739.1 | 3503.0 | 3185.8 | 2799.5 | 2439.5 | 2189.1 | 2074.6 | 2062.7 |
| 15° | 4230.3 | 4196.9 | 4030.0 | 3755.8 | 3359.9 | 2768.5 | 2100.8 | 1659.7 | 1399.8 | 1323.5 | 1352.1 |
| 17.5° | 4423.5 | 4361.5 | 4115.8 | 3729.5 | 3038.0 | 2100.8 | 1411.7 | 1132.7 | 1051.6 | 1030.2 | 1030.2 |
| 20° | 4604.7 | 4518.8 | 4177.8 | 3615.1 | 2480.0 | 1447.5 | 1046.8 | 980.1 | 965.8 | 951.5 | 953.8 |
| 22.5° | 4785.9 | 4654.8 | 4232.7 | 3359.9 | 1848.1 | 1034.9 | 937.2 | 915.7 | 896.6 | 877.5 | 875.2 |
| 25° | 4962.4 | 4781.1 | 4254.1 | 2887.8 | 1259.1 | 889.5 | 856.1 | 827.5 | 789.3 | 767.8 | 763.1 |
| 27.5° | 5146.0 | 4933.8 | 4239.8 | 2291.6 | 918.1 | 796.5 | 763.1 | 722.5 | 677.2 | 639.1 | 639.1 |
| 30° | 5498.9 | 5224.7 | 4189.8 | 1647.8 | 772.6 | 701.1 | 658.2 | 593.8 | 543.7 | 505.5 | 503.2 |
| 32.5° | 5980.6 | 5603.8 | 4018.1 | 1158.9 | 686.8 | 617.6 | 553.2 | 481.7 | 429.2 | 400.6 | 400.6 |
| 35° | 6409.8 | 5985.4 | 3696.1 | 853.7 | 617.6 | 536.5 | 457.8 | 388.7 | 348.2 | 329.1 | 321.9 |
| 37.5° | 7063.2 | 6543.4 | 3252.6 | 693.9 | 550.8 | 465.0 | 383.9 | 319.5 | 286.2 | 271.8 | 271.8 |
| 40° | 8043.3 | 7225.4 | 2708.9 | 608.1 | 486.5 | 395.8 | 319.5 | 269.5 | 243.2 | 226.5 | 226.5 |
| 42.5° | 9259.4 | 8060.0 | 2158.1 | 546.1 | 426.8 | 341.0 | 267.1 | 228.9 | 205.1 | 193.2 | 190.8 |
| 45° | 10790.4 | 8939.9 | 1662.1 | 488.8 | 379.2 | 290.9 | 226.5 | 193.2 | 169.3 | 162.2 | 164.5 |
| 47.5° | 12388.0 | 9714.9 | 1287.7 | 438.8 | 329.1 | 245.6 | 193.2 | 166.9 | 150.2 | 140.7 | 140.7 |
| 50° | 13752.0 | 10249.1 | 977.7 | 381.5 | 290.9 | 207.5 | 169.3 | 150.2 | 135.9 | 131.2 | 128.8 |
| 52.5° | 14891.9 | 10404.1 | 748.8 | 331.5 | 255.2 | 178.8 | 150.2 | 135.9 | 124.0 | 116.8 | 116.8 |
| 55° | 15862.4 | 10268.1 | 586.6 | 279.0 | 214.6 | 155.0 | 133.5 | 121.6 | 107.3 | 100.2 | 97.8 |
| 57.5° | 16430.0 | 9831.7 | 448.3 | 231.3 | 174.1 | 128.8 | 116.8 | 102.5 | 85.8 | 73.9 | 73.9 |
| 60° | 16716.1 | 9197.4 | 343.4 | 190.8 | 133.5 | 102.5 | 95.4 | 76.3 | 59.6 | 50.1 | 47.7 |
| 62.5° | 16372.7 | 8355.7 | 259.9 | 150.2 | 100.2 | 76.3 | 64.4 | 54.8 | 38.2 | 28.6 | 28.6 |
| 63° | 16160.5 | 8112.4 | 250.4 | 143.1 | 93.0 | 71.5 | 59.6 | 50.1 | 33.4 | 26.2 | 23.8 |
| 65° | 14732.1 | 7051.3 | 205.1 | 114.5 | 73.9 | 50.1 | 40.5 | 35.8 | 23.8 | 11.9 | 9.5 |
| 67.5° | 11698.9 | 5394.0 | 162.2 | 85.8 | 52.5 | 35.8 | 23.8 | 21.5 | 7.2 | 0.0 | 0.0 |
| 70° | 7909.8 | 3483.9 | 126.4 | 62.0 | 35.8 | 21.5 | 11.9 | 9.5 | 2.4 | 0.0 | 0.0 |
| 72.5° | 4125.4 | 1786.1 | 97.8 | 45.3 | 21.5 | 14.3 | 7.2 | 2.4 | 0.0 | 0.0 | 0.0 |
| 75° | 1459.4 | 608.1 | 71.5 | 28.6 | 14.3 | 7.2 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 441.2 | 226.5 | 45.3 | 21.5 | 9.5 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 155.0 | 83.5 | 26.2 | 14.3 | 7.2 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 76.3 | 40.5 | 16.7 | 11.9 | 7.2 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 42.9 | 26.2 | 14.3 | 11.9 | 7.2 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 31.0 | 19.1 | 14.3 | 11.9 | 9.5 | 4.8 | 2.4 | 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)