

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: P853002

Luminaire Tested: **GLAN-SB8A-727-U-T4FT-HSS**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P853002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB8A-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24424 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

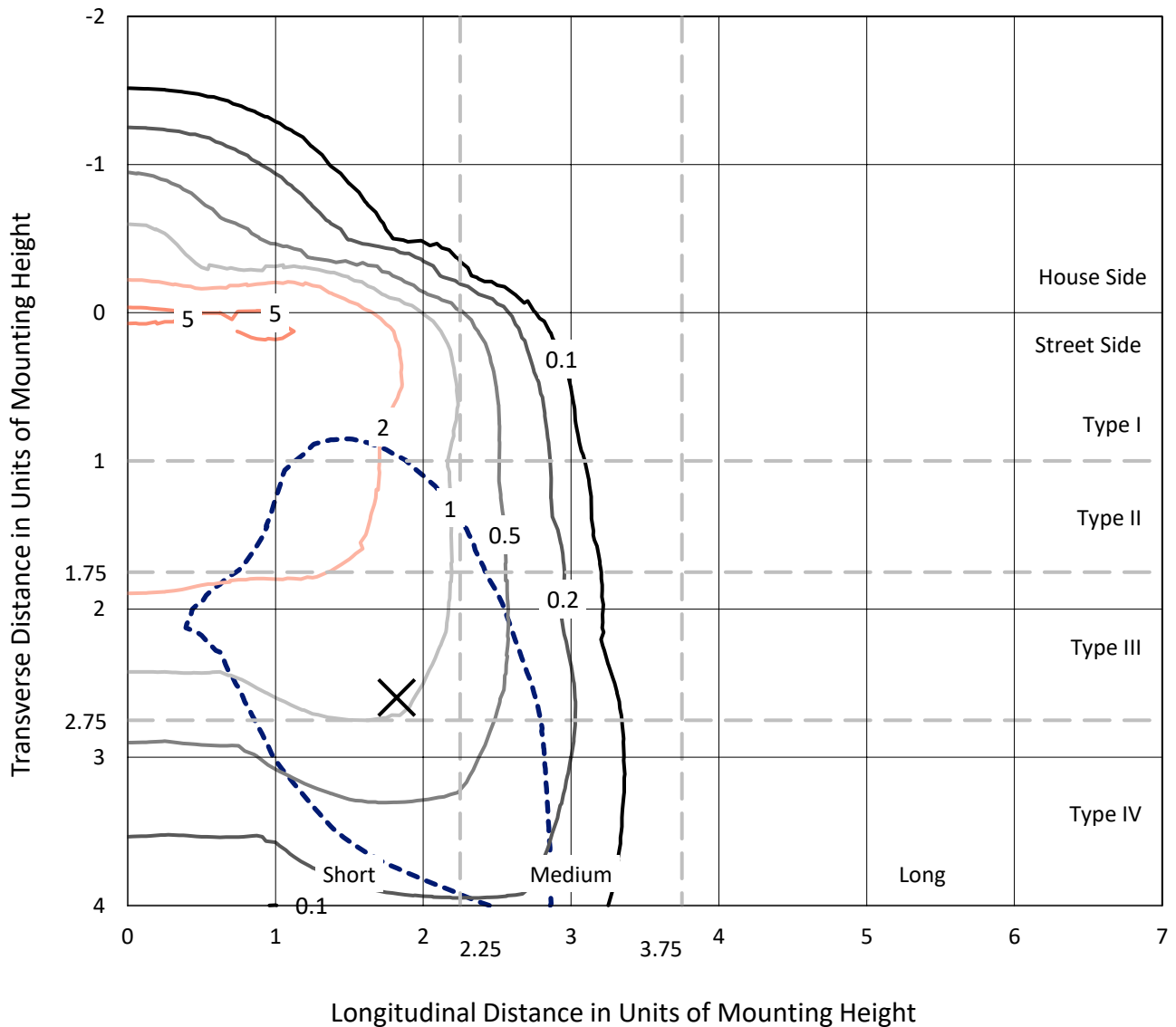
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P853002
 CATALOG NUMBER: GLAN-SB8A-727-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

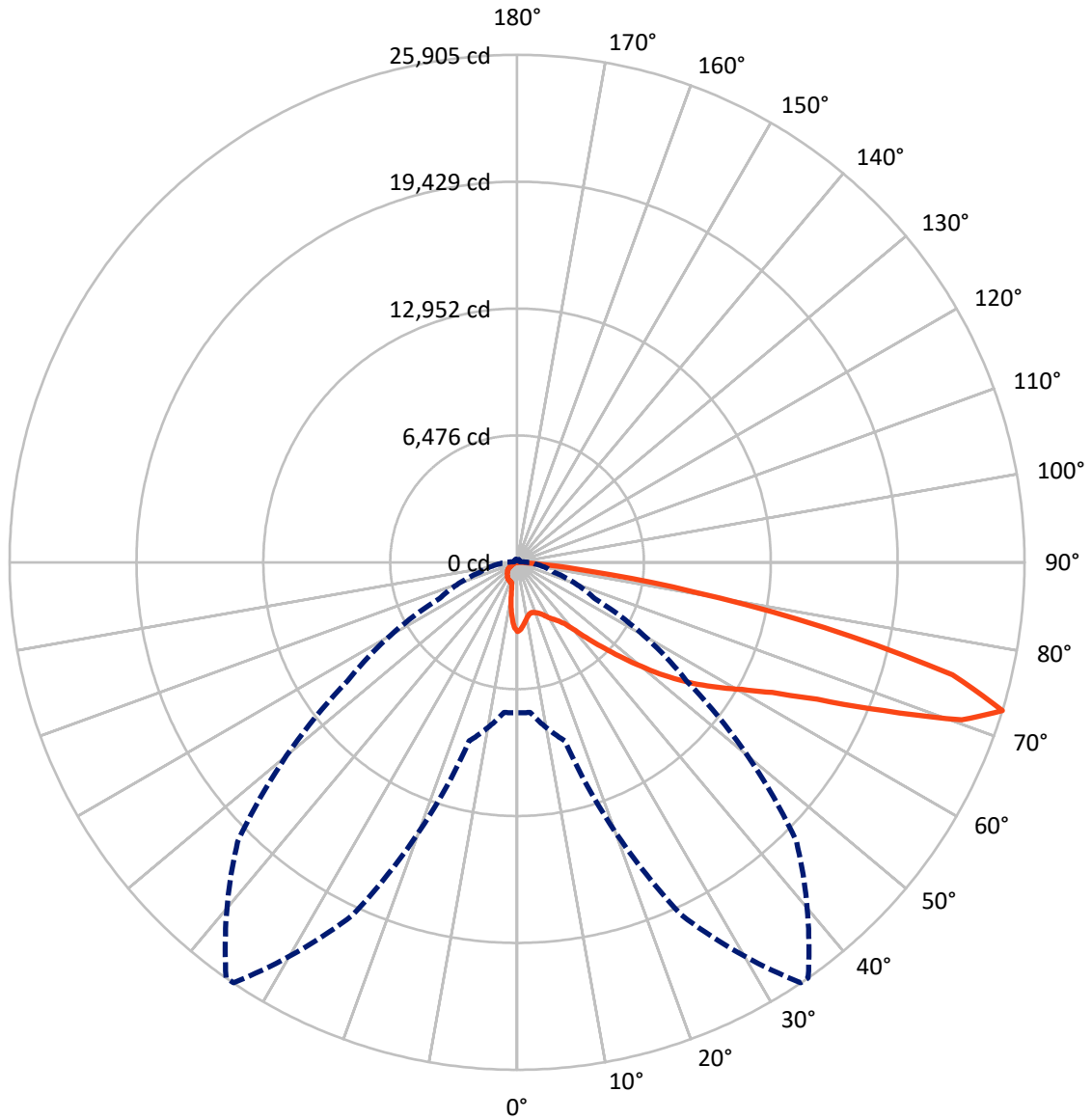
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P853002
CATALOG NUMBER: GLAN-SB8A-727-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P853002
 CATALOG NUMBER: GLAN-SB8A-727-U-T4FT-HSS

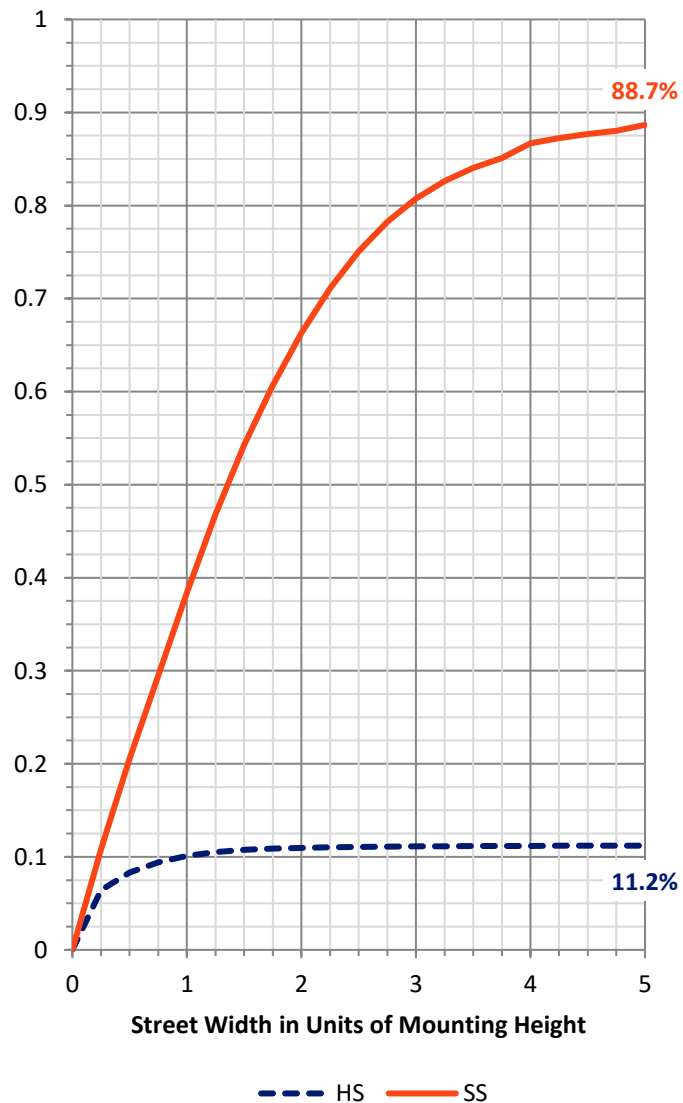
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2748.8 | 0.0 | 2748.8 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 21675.2 | 0.0 | 21675.2 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 24424.0 | 0.0 | 24424.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 290.9 | 1.2 |
| 10°-20° | 680.5 | 2.8 |
| 20°-30° | 1105.4 | 4.5 |
| 30°-40° | 1844.4 | 7.6 |
| 40°-50° | 3489.6 | 14.3 |
| 50°-60° | 5545.0 | 22.7 |
| 60°-70° | 6859.6 | 28.1 |
| 70°-80° | 4264.0 | 17.5 |
| 80°-90° | 344.6 | 1.4 |
| 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° | 24424.0 | 100.0 |
| 0°-180° | 24424.0 | 100.0 |

Coefficient of Utilization



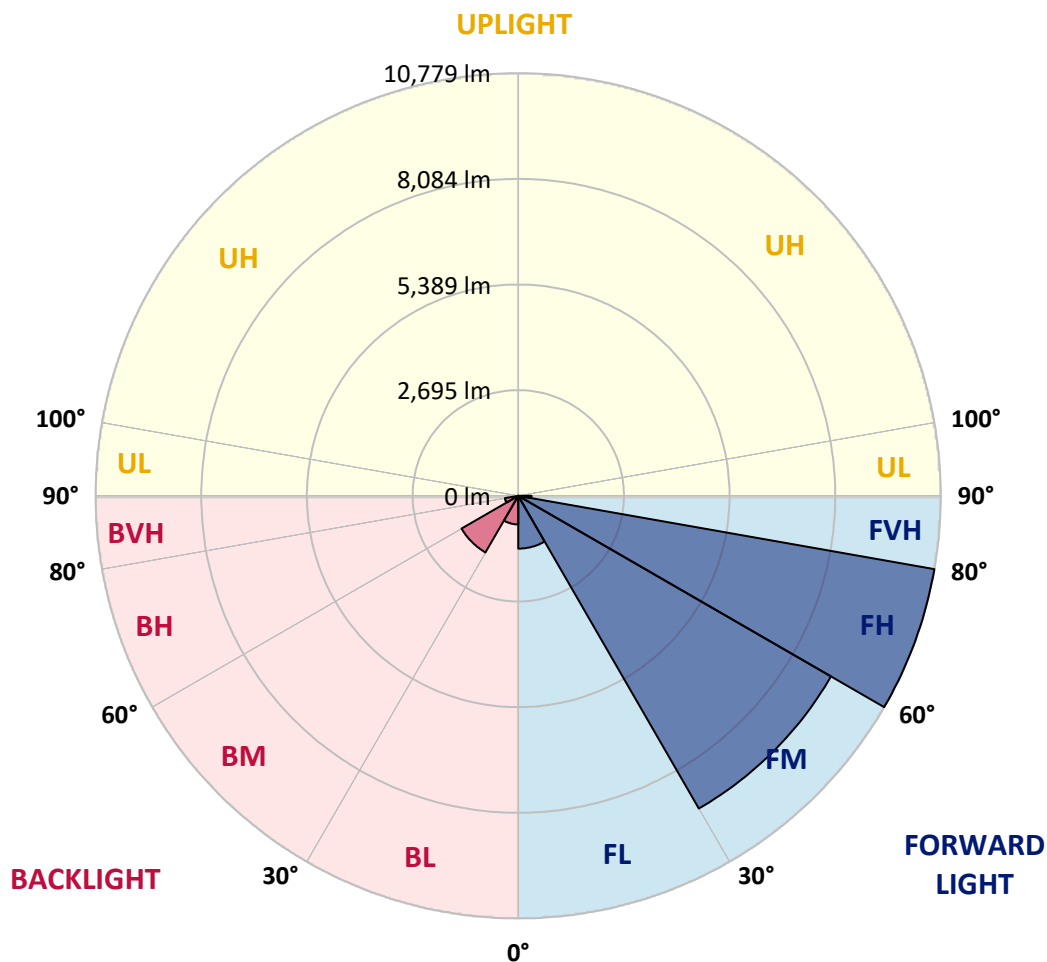
REPORT NUMBER: P853002
 CATALOG NUMBER: GLAN-SB8A-727-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1346.4 | 5.5 | | | |
| FM | (30°-60°) | 9210.3 | 37.7 | | | |
| FH | (60°-80°) | 10778.6 | 44.1 | | | G4/12000 |
| FVH | (80°-90°) | 339.9 | 1.4 | | | G3/500 |
| BL | (0°-30°) | 730.4 | 3.0 | B2/1000 | | |
| BM | (30°-60°) | 1668.8 | 6.8 | B2/2500 | | |
| BH | (60°-80°) | 344.9 | 1.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 4.7 | 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-G4

Type IV Short



REPORT NUMBER: P853002
 CATALOG NUMBER: GLAN-SB8A-727-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3539.9 | 3539.9 | 3539.9 | 3539.9 | 3539.9 | 3539.9 | 3539.9 | 3539.9 | 3539.9 | 3539.9 |
| 2.5° | 3382.4 | 3411.0 | 3416.4 | 3425.3 | 3425.3 | 3436.1 | 3454.0 | 3479.0 | 3520.2 | 3541.6 |
| 5° | 3117.5 | 3139.0 | 3165.8 | 3187.3 | 3228.5 | 3233.8 | 3303.6 | 3371.6 | 3466.5 | 3538.1 |
| 7.5° | 2850.9 | 2875.9 | 2911.7 | 2963.6 | 3017.3 | 3033.4 | 3139.0 | 3253.5 | 3403.8 | 3538.1 |
| 10° | 2662.9 | 2664.7 | 2696.9 | 2748.8 | 2834.7 | 2854.4 | 2983.3 | 3146.1 | 3334.1 | 3516.6 |
| 12.5° | 2557.4 | 2569.9 | 2584.2 | 2623.6 | 2705.9 | 2718.4 | 2856.2 | 3047.7 | 3264.3 | 3504.1 |
| 15° | 2557.4 | 2566.3 | 2575.3 | 2594.9 | 2661.2 | 2671.9 | 2793.6 | 2985.1 | 3228.5 | 3509.4 |
| 17.5° | 2584.2 | 2598.5 | 2591.4 | 2614.6 | 2684.4 | 2691.6 | 2799.0 | 2967.2 | 3226.7 | 3543.4 |
| 20° | 2648.6 | 2659.4 | 2645.0 | 2659.4 | 2729.2 | 2743.5 | 2854.4 | 3001.2 | 3257.1 | 3602.5 |
| 22.5° | 2750.6 | 2756.0 | 2722.0 | 2732.7 | 2804.3 | 2822.2 | 2951.1 | 3097.8 | 3330.5 | 3697.3 |
| 25° | 2879.5 | 2890.2 | 2838.3 | 2850.9 | 2918.9 | 2940.3 | 3088.9 | 3242.8 | 3446.8 | 3828.0 |
| 27.5° | 3028.0 | 3033.4 | 2988.7 | 2986.9 | 3074.6 | 3105.0 | 3255.3 | 3421.7 | 3602.5 | 3992.6 |
| 30° | 3198.0 | 3214.1 | 3171.2 | 3164.0 | 3275.0 | 3300.0 | 3448.6 | 3641.9 | 3831.6 | 4239.6 |
| 32.5° | 3332.3 | 3344.8 | 3319.7 | 3337.6 | 3450.4 | 3470.1 | 3683.0 | 3953.3 | 4191.3 | 4590.4 |
| 35° | 3525.5 | 3532.7 | 3475.4 | 3507.6 | 3636.5 | 3686.6 | 4003.4 | 4389.9 | 4644.0 | 5030.6 |
| 37.5° | 4225.3 | 4225.3 | 3981.9 | 3822.6 | 3946.1 | 3990.8 | 4441.8 | 4939.3 | 5202.4 | 5621.2 |
| 40° | 5193.5 | 5177.4 | 4821.2 | 4495.5 | 4479.4 | 4567.1 | 5066.4 | 5631.9 | 5923.6 | 6329.9 |
| 42.5° | 6226.1 | 6201.0 | 5716.0 | 5393.9 | 5340.2 | 5370.6 | 5787.6 | 6485.6 | 6782.6 | 7194.2 |
| 45° | 7142.3 | 7135.2 | 6691.4 | 6258.3 | 6161.6 | 6258.3 | 6687.8 | 7484.2 | 7697.1 | 8130.2 |
| 47.5° | 7910.1 | 7910.1 | 7586.2 | 7303.4 | 7253.3 | 7310.6 | 7906.5 | 8591.9 | 8572.3 | 9127.0 |
| 50° | 8794.2 | 8787.0 | 8479.2 | 8357.5 | 8409.4 | 8489.9 | 9309.6 | 9758.8 | 9477.8 | 10106.0 |
| 52.5° | 9413.4 | 9456.3 | 9350.7 | 9331.0 | 9595.9 | 9735.5 | 10734.1 | 10900.5 | 10288.5 | 11034.8 |
| 55° | 9903.7 | 9953.8 | 10075.5 | 10213.3 | 10723.4 | 10905.9 | 12113.9 | 11983.3 | 10966.8 | 11840.1 |
| 57.5° | 10598.1 | 10526.5 | 10714.4 | 10986.4 | 11811.5 | 12031.6 | 13450.7 | 13005.1 | 11512.6 | 12493.3 |
| 60° | 11441.0 | 11451.7 | 11484.0 | 11827.6 | 12897.7 | 13180.5 | 14767.9 | 13971.5 | 11863.4 | 12894.2 |
| 62.5° | 12453.9 | 12470.0 | 12536.2 | 13064.2 | 14356.3 | 14622.9 | 16171.0 | 14762.5 | 12024.4 | 12781.4 |
| 65° | 12384.1 | 12452.1 | 13191.2 | 14997.0 | 16573.6 | 16836.7 | 17808.4 | 15317.3 | 11781.0 | 11750.6 |
| 67.5° | 11281.7 | 11392.7 | 12629.3 | 17305.6 | 19916.6 | 20210.1 | 19787.8 | 15426.5 | 10730.5 | 9137.8 |
| 70° | 9835.7 | 9875.1 | 11362.3 | 19381.5 | 23787.5 | 24084.6 | 21559.5 | 14225.6 | 8142.7 | 5096.8 |
| 72.5° | 7681.0 | 7690.0 | 9434.8 | 19862.9 | 25888.6 | 25904.7 | 20168.9 | 10560.5 | 4379.2 | 1957.8 |
| 75° | 5487.0 | 5433.3 | 6319.1 | 16108.3 | 22776.4 | 22959.0 | 15120.4 | 4953.7 | 1673.3 | 925.2 |
| 77.5° | 2942.1 | 3001.2 | 3575.6 | 9553.0 | 15734.3 | 16045.7 | 8250.1 | 1428.1 | 851.9 | 629.9 |
| 80° | 909.1 | 959.2 | 1465.7 | 4373.8 | 8912.3 | 9100.2 | 3058.5 | 635.3 | 594.2 | 449.2 |
| 82.5° | 286.3 | 297.1 | 683.6 | 1837.9 | 3699.1 | 3785.0 | 885.9 | 359.7 | 406.2 | 297.1 |
| 85° | 82.3 | 84.1 | 304.2 | 685.4 | 914.5 | 932.4 | 248.8 | 139.6 | 232.6 | 184.3 |
| 87.5° | 8.9 | 28.6 | 114.5 | 114.5 | 80.5 | 78.7 | 26.8 | 30.4 | 66.2 | 23.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P853002
 CATALOG NUMBER: GLAN-SB8A-727-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3539.9 | 0° | 3539.9 | 3539.9 | 3539.9 | 3539.9 | 3539.9 | 3539.9 | 3539.9 | 3539.9 | 3539.9 | 3539.9 |
| 3556.0 | 2.5° | 3547.0 | 3548.8 | 3525.5 | 3486.2 | 3443.2 | 3407.4 | 3362.7 | 3326.9 | 3301.8 | 3294.7 |
| 3588.2 | 5° | 3572.1 | 3559.5 | 3493.3 | 3373.4 | 3230.3 | 3106.8 | 2969.0 | 2859.8 | 2788.2 | 2757.8 |
| 3622.2 | 7.5° | 3609.7 | 3573.9 | 3428.9 | 3192.7 | 2918.9 | 2675.5 | 2428.5 | 2237.0 | 2115.3 | 2054.5 |
| 3654.4 | 10° | 3641.9 | 3570.3 | 3321.5 | 2931.4 | 2512.6 | 2144.0 | 1811.1 | 1580.2 | 1451.4 | 1390.5 |
| 3692.0 | 12.5° | 3672.3 | 3568.5 | 3181.9 | 2621.8 | 2054.5 | 1603.5 | 1293.9 | 1179.4 | 1143.6 | 1131.0 |
| 3752.8 | 15° | 3729.6 | 3573.9 | 3006.6 | 2267.4 | 1598.1 | 1211.6 | 1098.8 | 1097.0 | 1104.2 | 1100.6 |
| 3845.9 | 17.5° | 3808.3 | 3579.2 | 2807.9 | 1891.6 | 1233.0 | 1068.4 | 1063.0 | 1079.1 | 1089.9 | 1084.5 |
| 3962.2 | 20° | 3910.3 | 3600.7 | 2596.7 | 1519.4 | 1059.5 | 1032.6 | 1045.1 | 1059.5 | 1068.4 | 1059.5 |
| 4117.9 | 22.5° | 4053.5 | 3638.3 | 2365.9 | 1220.5 | 1004.0 | 1011.1 | 1021.9 | 1038.0 | 1046.9 | 1034.4 |
| 4316.5 | 25° | 4228.9 | 3697.3 | 2138.6 | 1061.2 | 977.1 | 986.1 | 1002.2 | 1020.1 | 1030.8 | 1018.3 |
| 4567.1 | 27.5° | 4456.1 | 3792.2 | 1929.2 | 1025.4 | 950.3 | 955.7 | 978.9 | 1005.8 | 1020.1 | 1004.0 |
| 4923.2 | 30° | 4785.4 | 3947.9 | 1748.5 | 1041.6 | 934.2 | 921.7 | 953.9 | 991.4 | 1007.6 | 993.2 |
| 5408.2 | 32.5° | 5222.1 | 4168.0 | 1637.5 | 1066.6 | 927.0 | 882.3 | 912.7 | 961.0 | 987.9 | 978.9 |
| 6041.7 | 35° | 5794.8 | 4502.7 | 1594.5 | 1095.2 | 921.7 | 841.1 | 862.6 | 914.5 | 961.0 | 970.0 |
| 6839.9 | 37.5° | 6489.1 | 4968.0 | 1607.1 | 1107.8 | 905.5 | 807.1 | 817.9 | 862.6 | 923.4 | 952.1 |
| 7738.3 | 40° | 7278.4 | 5510.2 | 1678.7 | 1095.2 | 887.6 | 778.5 | 780.3 | 814.3 | 868.0 | 910.9 |
| 8704.7 | 42.5° | 8092.6 | 6143.7 | 1811.1 | 1048.7 | 871.5 | 753.4 | 748.1 | 771.3 | 807.1 | 837.5 |
| 9669.3 | 45° | 8867.5 | 6795.2 | 1941.7 | 984.3 | 851.9 | 728.4 | 715.8 | 724.8 | 732.0 | 744.5 |
| 10608.8 | 47.5° | 9544.0 | 7253.3 | 1904.1 | 925.2 | 825.0 | 699.7 | 678.3 | 674.7 | 653.2 | 651.4 |
| 11448.2 | 50° | 10011.1 | 7353.5 | 1691.2 | 866.2 | 785.6 | 667.5 | 633.5 | 612.0 | 574.5 | 556.6 |
| 12076.3 | 52.5° | 10159.6 | 6958.0 | 1381.6 | 807.1 | 721.2 | 624.6 | 576.3 | 542.3 | 495.7 | 479.6 |
| 12437.8 | 55° | 9962.8 | 6183.1 | 1104.2 | 735.5 | 631.7 | 567.3 | 513.6 | 468.9 | 431.3 | 411.6 |
| 12477.2 | 57.5° | 9481.4 | 5197.0 | 873.3 | 651.4 | 536.9 | 502.9 | 449.2 | 404.5 | 372.2 | 352.6 |
| 12040.5 | 60° | 8683.2 | 4126.8 | 690.8 | 551.2 | 458.1 | 433.1 | 377.6 | 349.0 | 320.3 | 297.1 |
| 10913.1 | 62.5° | 7471.6 | 2945.7 | 542.3 | 436.7 | 383.0 | 354.3 | 322.1 | 300.7 | 266.7 | 234.4 |
| 8885.4 | 65° | 5830.6 | 1802.1 | 418.8 | 320.3 | 307.8 | 293.5 | 273.8 | 254.1 | 213.0 | 180.8 |
| 5796.6 | 67.5° | 3677.7 | 853.6 | 298.9 | 241.6 | 243.4 | 236.2 | 227.3 | 211.2 | 180.8 | 152.1 |
| 2596.7 | 70° | 1619.6 | 413.4 | 196.9 | 184.3 | 180.8 | 180.8 | 187.9 | 182.5 | 153.9 | 127.1 |
| 902.0 | 72.5° | 551.2 | 221.9 | 146.7 | 139.6 | 130.6 | 128.9 | 157.5 | 152.1 | 123.5 | 98.4 |
| 449.2 | 75° | 288.1 | 148.5 | 107.4 | 100.2 | 78.7 | 94.8 | 125.3 | 118.1 | 87.7 | 64.4 |
| 297.1 | 77.5° | 187.9 | 105.6 | 73.4 | 64.4 | 44.7 | 62.6 | 93.1 | 82.3 | 51.9 | 32.2 |
| 195.1 | 80° | 118.1 | 69.8 | 43.0 | 30.4 | 21.5 | 34.0 | 50.1 | 35.8 | 19.7 | 7.2 |
| 114.5 | 82.5° | 62.6 | 35.8 | 16.1 | 10.7 | 8.9 | 10.7 | 12.5 | 8.9 | 3.6 | 0.0 |
| 59.1 | 85° | 25.1 | 12.5 | 5.4 | 3.6 | 1.8 | 0.0 | 3.6 | 1.8 | 0.0 | 0.0 |
| 10.7 | 87.5° | 8.9 | 1.8 | 0.0 | 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 |

(END O

| 180° |
|--------|
| 3539.9 |
| 3307.2 |
| 2768.5 |
| 2063.4 |
| 1392.3 |
| 1127.5 |
| 1098.8 |
| 1082.7 |
| 1057.7 |
| 1032.6 |
| 1016.5 |
| 1004.0 |
| 991.4 |
| 978.9 |
| 970.0 |
| 959.2 |
| 925.2 |
| 850.1 |
| 751.6 |
| 649.6 |
| 558.4 |
| 477.8 |
| 411.6 |
| 349.0 |
| 291.7 |
| 229.1 |
| 175.4 |
| 148.5 |
| 121.7 |
| 93.1 |
| 59.1 |
| 28.6 |
| 5.4 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

F REPORT)