

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: P533770

Luminaire Tested: **GLAN-SA9B-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9B-727-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36565 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

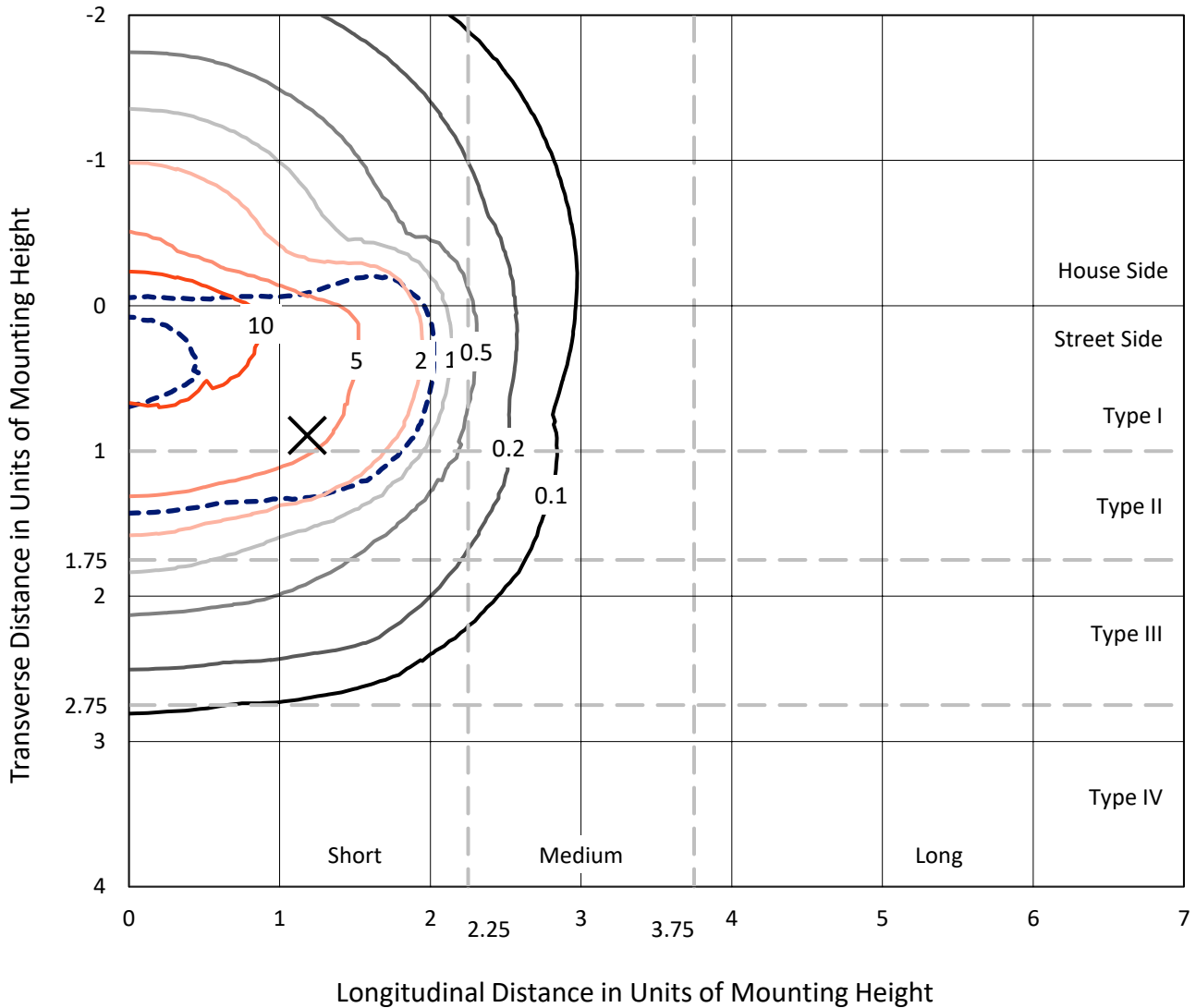
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

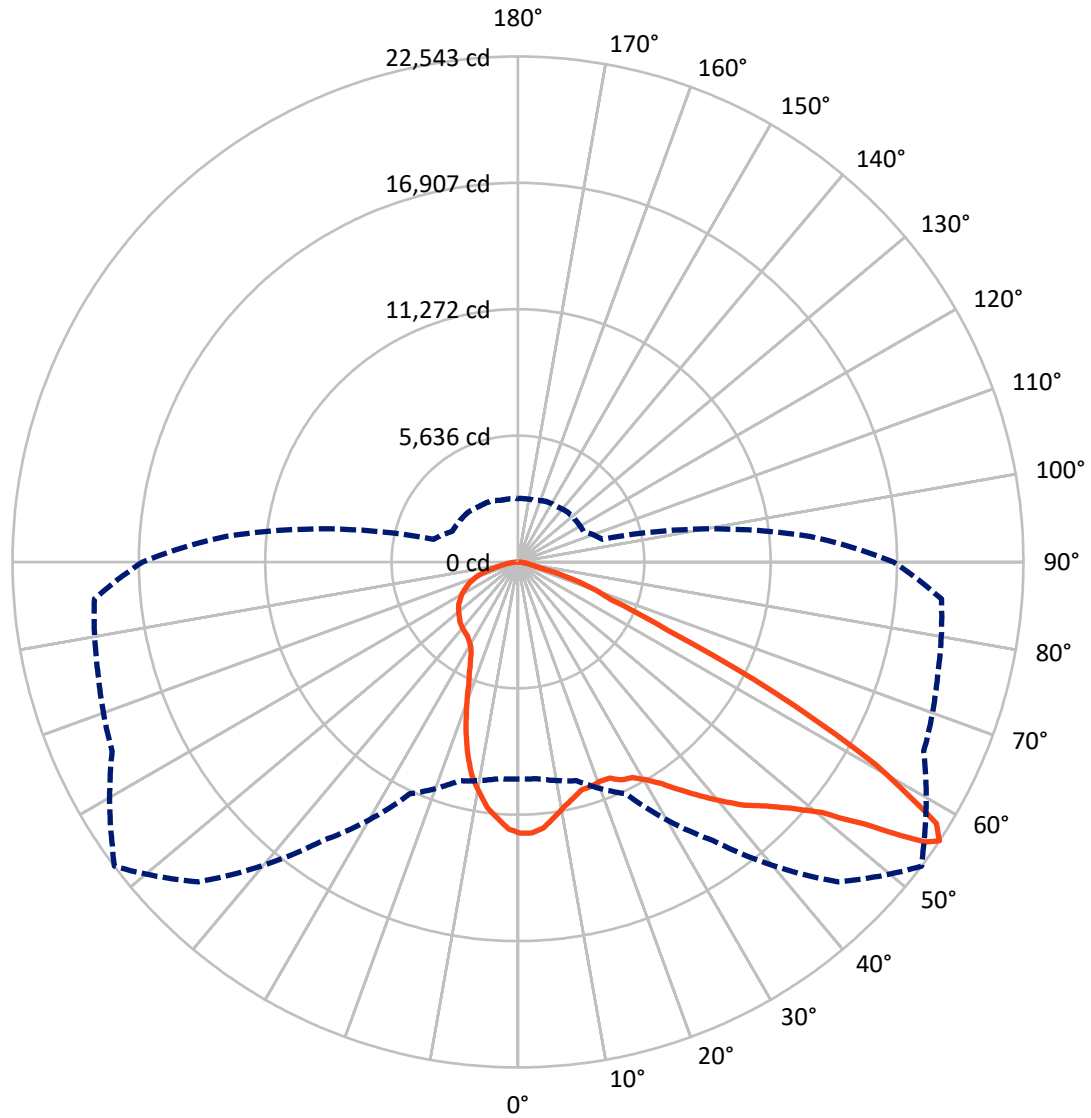
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10670.5 | 0.0 | 10670.5 |
| | % Fixture | 29.2 | 0.0 | 29.2 |
| Street Side | Lumens | 25894.5 | 0.0 | 25894.5 |
| | % Fixture | 70.8 | 0.0 | 70.8 |
| Total | Lumens | 36565.0 | 0.0 | 36565.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1070.9 | 2.9 |
| 10°-20° | 2674.7 | 7.3 |
| 20°-30° | 3944.2 | 10.8 |
| 30°-40° | 5635.4 | 15.4 |
| 40°-50° | 7756.4 | 21.2 |
| 50°-60° | 9166.0 | 25.1 |
| 60°-70° | 4884.9 | 13.4 |
| 70°-80° | 1239.3 | 3.4 |
| 80°-90° | 193.2 | 0.5 |
| 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° | 36565.0 | 100.0 |
| 0°-180° | 36565.0 | 100.0 |



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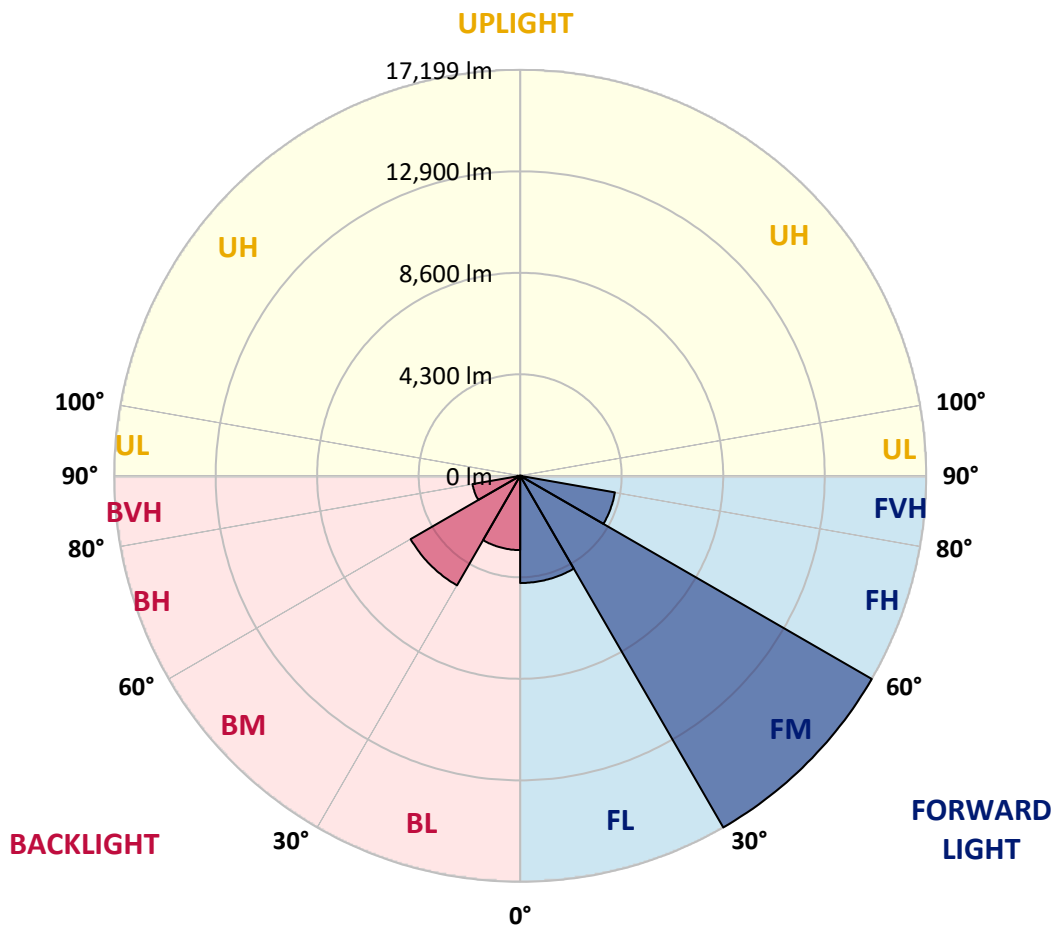
CATALOG NUMBER: GLAN-SA9B-727-U-SL2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4542.7 | 12.4 | | | |
| FM (30°-60°) | 17199.5 | 47.0 | | | |
| FH (60°-80°) | 4074.7 | 11.1 | | | G2/5000 |
| FVH (80°-90°) | 77.7 | 0.2 | | | G1/100 |
| BL (0°-30°) | 3147.2 | 8.6 | B4/5000 | | |
| BM (30°-60°) | 5358.3 | 14.7 | B4/8500 | | |
| BH (60°-80°) | 2049.4 | 5.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 115.6 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12097.1 | 12097.1 | 12097.1 | 12097.1 | 12097.1 | 12097.1 | 12097.1 | 12097.1 | 12097.1 | 12097.1 | 12097.1 |
| 2.5° | 11947.0 | 11843.8 | 11904.8 | 11881.4 | 12073.7 | 12130.0 | 12101.8 | 12125.3 | 12233.2 | 12181.6 | 12073.7 |
| 5° | 11163.7 | 11309.1 | 11337.3 | 11407.6 | 11520.2 | 11740.7 | 11914.2 | 11961.1 | 12012.7 | 12251.9 | 12228.5 |
| 7.5° | 10450.7 | 10549.2 | 10497.6 | 10704.0 | 10947.9 | 11304.4 | 11515.5 | 11553.0 | 12026.8 | 12158.1 | 12256.6 |
| 10° | 10000.4 | 9901.9 | 10136.5 | 10192.7 | 10469.5 | 10877.6 | 11130.9 | 11285.7 | 11717.2 | 12237.9 | 12298.8 |
| 12.5° | 9583.0 | 9550.1 | 9690.8 | 9850.3 | 10159.9 | 10582.1 | 10840.1 | 10901.0 | 11567.1 | 12115.9 | 12402.0 |
| 15° | 9273.4 | 9235.9 | 9376.6 | 9493.8 | 9855.0 | 10230.3 | 10558.6 | 10732.2 | 11402.9 | 12045.5 | 12312.9 |
| 17.5° | 9029.5 | 9024.8 | 9104.5 | 9315.6 | 9686.2 | 10000.4 | 10530.5 | 10539.9 | 11318.5 | 12153.4 | 12388.0 |
| 20° | 9015.4 | 9010.7 | 9024.8 | 9259.3 | 9597.0 | 9981.7 | 10441.3 | 10525.8 | 11318.5 | 12078.4 | 12392.7 |
| 22.5° | 9132.7 | 9057.6 | 9142.0 | 9292.1 | 9536.1 | 10014.5 | 10474.2 | 10661.8 | 11590.6 | 12448.9 | 12603.7 |
| 25° | 9320.3 | 9339.1 | 9386.0 | 9437.6 | 9578.3 | 10089.6 | 10765.0 | 10919.8 | 11909.5 | 12767.9 | 12894.6 |
| 27.5° | 9662.7 | 9653.3 | 9672.1 | 9700.2 | 9822.2 | 10159.9 | 10882.3 | 11281.0 | 12575.6 | 13335.5 | 13208.8 |
| 30° | 10164.6 | 10131.8 | 10206.8 | 10305.3 | 10192.7 | 10385.1 | 11271.6 | 11571.8 | 13194.8 | 13907.7 | 13560.6 |
| 32.5° | 10619.6 | 10741.6 | 10882.3 | 10924.5 | 10788.5 | 10826.0 | 11787.6 | 12092.5 | 13710.7 | 14611.3 | 13992.2 |
| 35° | 11187.2 | 11285.7 | 11473.3 | 11604.6 | 11581.2 | 11468.6 | 12491.2 | 12894.6 | 14456.5 | 15127.3 | 14447.2 |
| 37.5° | 11740.7 | 11857.9 | 12167.5 | 12556.8 | 12341.1 | 12289.5 | 13241.7 | 13574.7 | 14686.4 | 15404.0 | 14780.2 |
| 40° | 12631.9 | 12627.2 | 13161.9 | 13363.6 | 13555.9 | 13466.8 | 14020.3 | 14132.9 | 14808.3 | 15343.1 | 14789.6 |
| 42.5° | 13677.9 | 13612.2 | 14156.3 | 14470.6 | 14719.2 | 14728.6 | 14831.8 | 14794.3 | 14864.6 | 15033.5 | 14691.1 |
| 45° | 14672.3 | 14813.0 | 15361.8 | 15924.7 | 16173.3 | 16201.4 | 15516.6 | 15446.3 | 14963.1 | 14944.4 | 14503.4 |
| 47.5° | 15887.2 | 15920.0 | 16370.3 | 17111.4 | 17688.4 | 17491.4 | 16403.1 | 16248.4 | 15394.7 | 15540.1 | 14817.7 |
| 50° | 15957.5 | 16201.4 | 16604.8 | 17477.3 | 19250.4 | 19198.8 | 17552.3 | 17261.5 | 16088.9 | 16384.4 | 15694.9 |
| 52.5° | 14484.7 | 14428.4 | 14906.8 | 16332.8 | 19133.1 | 20896.8 | 19456.7 | 18762.5 | 17580.5 | 17355.3 | 17116.1 |
| 55° | 11037.1 | 11168.4 | 11590.6 | 13030.6 | 16614.2 | 20920.2 | 22050.7 | 21483.1 | 19175.3 | 18790.7 | 18513.9 |
| 56° | 9681.5 | 9700.2 | 10098.9 | 11412.3 | 15160.1 | 20174.4 | 22543.2 | 22083.5 | 19968.0 | 19381.7 | 18959.5 |
| 57.5° | 8025.7 | 7917.8 | 8124.2 | 8841.8 | 12796.0 | 18598.4 | 22003.8 | 22454.1 | 20896.8 | 20019.6 | 19433.3 |
| 60° | 6318.3 | 6294.8 | 6210.4 | 6341.7 | 8086.7 | 14010.9 | 18316.9 | 19330.1 | 20803.0 | 19419.2 | 18612.4 |
| 62.5° | 5159.7 | 5042.4 | 5211.3 | 5398.9 | 5619.4 | 8691.7 | 12871.1 | 13466.8 | 16515.7 | 15502.5 | 13982.8 |
| 65° | 4001.1 | 3944.8 | 4155.9 | 4765.7 | 4897.0 | 5520.9 | 7331.5 | 7791.1 | 9751.8 | 9578.3 | 8433.8 |
| 67.5° | 2753.4 | 2762.8 | 2945.7 | 3874.5 | 4540.5 | 4484.2 | 4488.9 | 4728.2 | 5089.3 | 3780.7 | 3292.8 |
| 70° | 1744.9 | 1740.2 | 1838.7 | 2495.4 | 3654.0 | 3691.5 | 3503.9 | 3433.5 | 3255.3 | 1970.1 | 2087.3 |
| 72.5° | 1121.1 | 1088.2 | 1139.8 | 1379.0 | 1890.3 | 2185.8 | 2251.5 | 2293.7 | 1885.6 | 1547.9 | 1679.2 |
| 75° | 633.2 | 600.4 | 581.6 | 642.6 | 745.8 | 863.1 | 947.5 | 975.7 | 1092.9 | 1172.7 | 1243.0 |
| 77.5° | 192.3 | 173.6 | 211.1 | 281.4 | 370.6 | 497.2 | 605.1 | 623.9 | 736.4 | 830.2 | 900.6 |
| 80° | 84.4 | 93.8 | 131.3 | 187.6 | 262.7 | 351.8 | 426.8 | 455.0 | 530.0 | 600.4 | 619.2 |
| 82.5° | 51.6 | 56.3 | 89.1 | 126.6 | 182.9 | 248.6 | 304.9 | 314.3 | 389.3 | 445.6 | 459.7 |
| 85° | 18.8 | 23.5 | 46.9 | 75.1 | 117.3 | 159.5 | 159.5 | 173.6 | 159.5 | 159.5 | 173.6 |
| 87.5° | 0.0 | 0.0 | 4.7 | 9.4 | 9.4 | 14.1 | 18.8 | 18.8 | 23.5 | 28.1 | 32.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: GLAN-SA9B-727-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12097.1 | 12097.1 | 12097.1 | 12097.1 | 12097.1 | 12097.1 | 12097.1 | 12097.1 | 12097.1 | 12097.1 | 12097.1 |
| 2.5° | 12130.0 | 12106.5 | 12069.0 | 11933.0 | 11918.9 | 11876.7 | 11642.2 | 11604.6 | 11642.2 | 11529.6 | 11539.0 |
| 5° | 12106.5 | 12176.9 | 11895.4 | 11759.4 | 11506.1 | 11323.2 | 11112.1 | 11004.2 | 10811.9 | 10690.0 | 10826.0 |
| 7.5° | 12209.7 | 12181.6 | 11829.8 | 11534.3 | 11154.3 | 10690.0 | 10319.4 | 10108.3 | 9770.6 | 9676.8 | 9747.1 |
| 10° | 12172.2 | 12022.1 | 11609.3 | 11220.0 | 10502.3 | 10094.2 | 9493.8 | 8912.2 | 8593.2 | 8429.1 | 8405.6 |
| 12.5° | 12120.6 | 12078.4 | 11388.9 | 10718.1 | 9962.9 | 9104.5 | 8260.2 | 7711.4 | 7190.7 | 6965.6 | 6998.4 |
| 15° | 12181.6 | 11825.1 | 10976.1 | 10127.1 | 9123.3 | 7997.5 | 7087.5 | 6379.3 | 6018.1 | 5872.7 | 5872.7 |
| 17.5° | 12153.4 | 11703.1 | 10779.1 | 9465.7 | 8194.5 | 6862.4 | 5863.3 | 5436.4 | 5286.3 | 5286.3 | 5328.6 |
| 20° | 12167.5 | 11782.9 | 10380.4 | 8804.3 | 7096.9 | 5778.9 | 5051.8 | 4897.0 | 4962.7 | 4986.1 | 5009.6 |
| 22.5° | 12247.2 | 11520.2 | 9991.0 | 8077.3 | 6079.1 | 4943.9 | 4587.4 | 4592.1 | 4709.4 | 4836.0 | 4812.6 |
| 25° | 12345.7 | 11417.0 | 9517.3 | 7354.9 | 5300.4 | 4535.8 | 4423.3 | 4409.2 | 4498.3 | 4564.0 | 4573.4 |
| 27.5° | 12261.3 | 11238.8 | 9034.2 | 6454.3 | 4662.5 | 4263.8 | 4240.3 | 4249.7 | 4277.9 | 4409.2 | 4367.0 |
| 30° | 12538.1 | 11290.4 | 8429.1 | 5699.1 | 4310.7 | 4174.7 | 4146.5 | 4132.4 | 4174.7 | 4212.2 | 4179.4 |
| 32.5° | 12880.5 | 11107.4 | 7978.8 | 4972.1 | 4137.1 | 4109.0 | 4052.7 | 4033.9 | 4057.4 | 4019.9 | 4038.6 |
| 35° | 13030.6 | 11074.6 | 7392.4 | 4451.4 | 4001.1 | 3977.7 | 3944.8 | 3940.1 | 3944.8 | 3912.0 | 3883.8 |
| 37.5° | 13115.0 | 11229.4 | 6721.7 | 4212.2 | 3916.7 | 3940.1 | 3865.1 | 3855.7 | 3771.3 | 3790.0 | 3804.1 |
| 40° | 13260.4 | 10990.2 | 6177.6 | 3982.3 | 3865.1 | 3818.2 | 3752.5 | 3738.4 | 3682.1 | 3649.3 | 3682.1 |
| 42.5° | 13049.3 | 10919.8 | 5642.8 | 3883.8 | 3790.0 | 3738.4 | 3691.5 | 3611.8 | 3593.0 | 3564.9 | 3546.1 |
| 45° | 12880.5 | 10516.4 | 5164.4 | 3761.9 | 3700.9 | 3672.8 | 3583.6 | 3499.2 | 3428.9 | 3457.0 | 3414.8 |
| 47.5° | 13007.1 | 10375.7 | 4690.6 | 3658.7 | 3579.0 | 3546.1 | 3457.0 | 3391.3 | 3321.0 | 3288.1 | 3278.8 |
| 50° | 13513.7 | 10638.4 | 4291.9 | 3583.6 | 3475.8 | 3457.0 | 3339.7 | 3264.7 | 3199.0 | 3175.6 | 3184.9 |
| 52.5° | 14723.9 | 11356.0 | 4019.9 | 3428.9 | 3377.3 | 3292.8 | 3227.2 | 3133.3 | 3091.1 | 3016.1 | 3063.0 |
| 55° | 16257.7 | 12524.0 | 3949.5 | 3283.4 | 3255.3 | 3180.2 | 3091.1 | 3020.8 | 2941.0 | 2880.0 | 2866.0 |
| 56° | 16750.3 | 13082.2 | 3893.2 | 3227.2 | 3180.2 | 3138.0 | 3020.8 | 2978.6 | 2851.9 | 2837.8 | 2828.5 |
| 57.5° | 17149.0 | 13574.7 | 3902.6 | 3119.3 | 3072.4 | 3034.8 | 2964.5 | 2861.3 | 2776.9 | 2725.3 | 2748.7 |
| 60° | 16248.4 | 12706.9 | 3724.4 | 2955.1 | 2945.7 | 2875.4 | 2776.9 | 2729.9 | 2626.8 | 2565.8 | 2551.7 |
| 62.5° | 12078.4 | 8626.1 | 3020.8 | 2744.0 | 2739.3 | 2664.3 | 2551.7 | 2500.1 | 2481.3 | 2396.9 | 2396.9 |
| 65° | 6956.2 | 5408.3 | 2612.7 | 2570.5 | 2532.9 | 2457.9 | 2345.3 | 2303.1 | 2256.2 | 2228.1 | 2204.6 |
| 67.5° | 2969.2 | 2805.0 | 2373.5 | 2368.8 | 2326.6 | 2232.7 | 2120.2 | 2054.5 | 1993.5 | 1937.2 | 1965.4 |
| 70° | 2153.0 | 2185.8 | 2143.6 | 2120.2 | 2068.6 | 1951.3 | 1852.8 | 1773.1 | 1679.2 | 1641.7 | 1669.9 |
| 72.5° | 1707.4 | 1777.7 | 1838.7 | 1843.4 | 1782.4 | 1646.4 | 1538.5 | 1430.6 | 1327.4 | 1275.9 | 1299.3 |
| 75° | 1294.6 | 1341.5 | 1402.5 | 1416.6 | 1327.4 | 1233.6 | 1130.4 | 1017.9 | 938.1 | 877.1 | 886.5 |
| 77.5° | 933.4 | 924.1 | 980.3 | 971.0 | 928.7 | 863.1 | 769.3 | 666.1 | 576.9 | 520.7 | 525.4 |
| 80° | 637.9 | 652.0 | 684.8 | 680.1 | 628.5 | 586.3 | 516.0 | 431.5 | 365.9 | 319.0 | 309.6 |
| 82.5° | 445.6 | 469.1 | 497.2 | 473.8 | 431.5 | 389.3 | 337.7 | 276.7 | 225.2 | 187.6 | 178.2 |
| 85° | 159.5 | 182.9 | 211.1 | 225.2 | 239.2 | 229.8 | 192.3 | 154.8 | 112.6 | 93.8 | 89.1 |
| 87.5° | 32.8 | 37.5 | 42.2 | 42.2 | 42.2 | 37.5 | 32.8 | 32.8 | 28.1 | 14.1 | 14.1 |
| 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)