

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: P531432

Luminaire Tested: **GLAN-SA6D-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6D-727-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32456 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

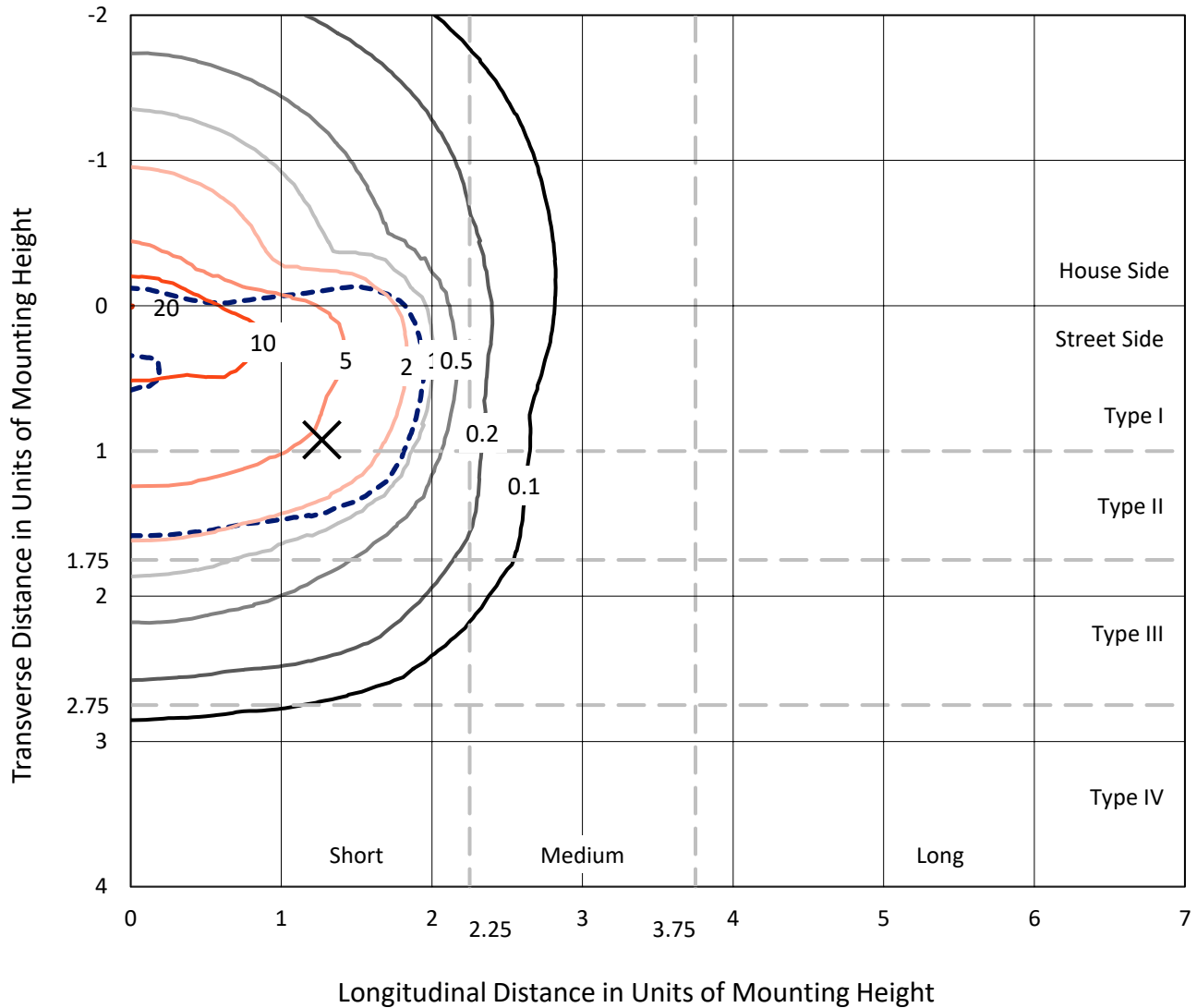
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

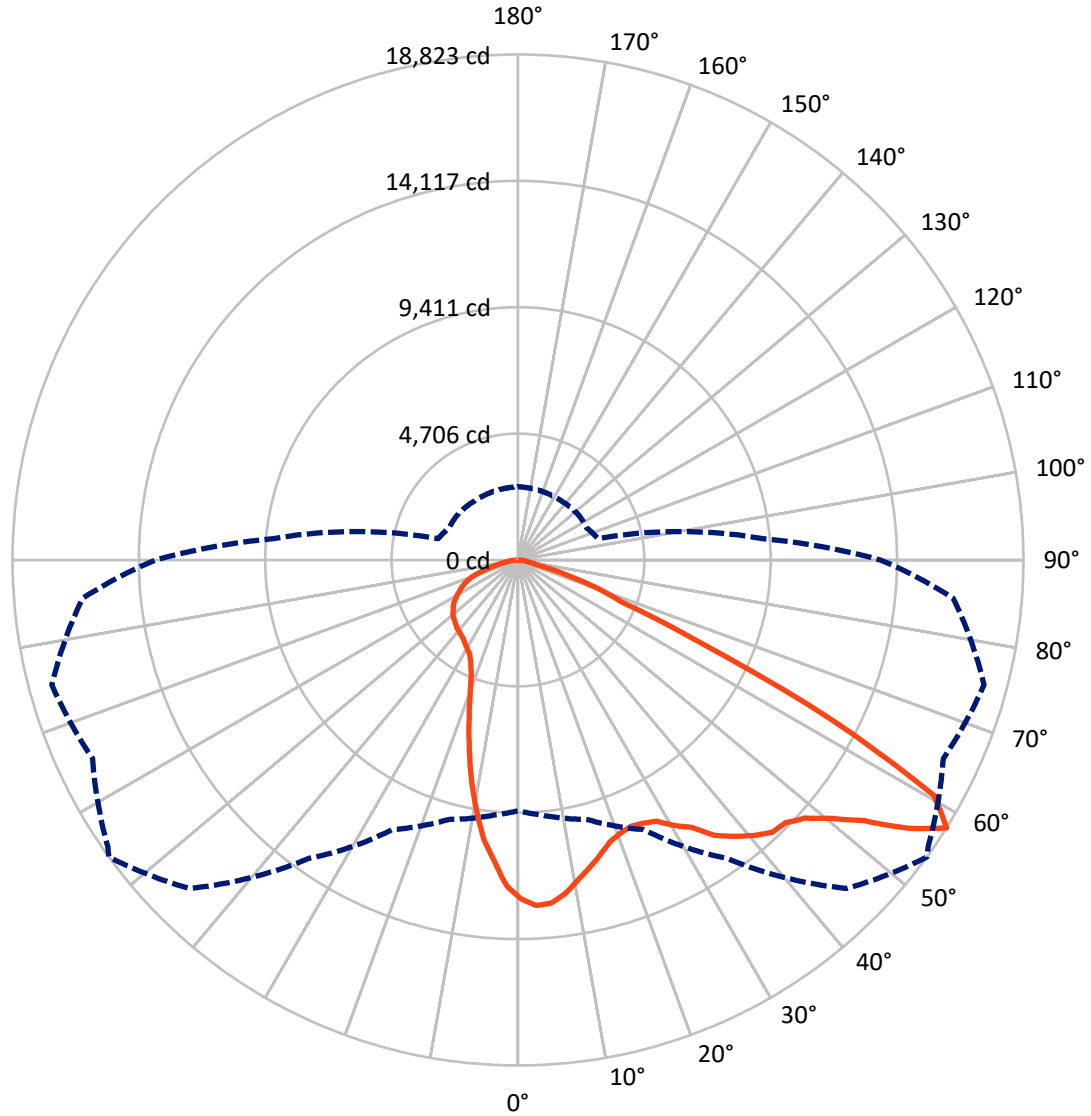
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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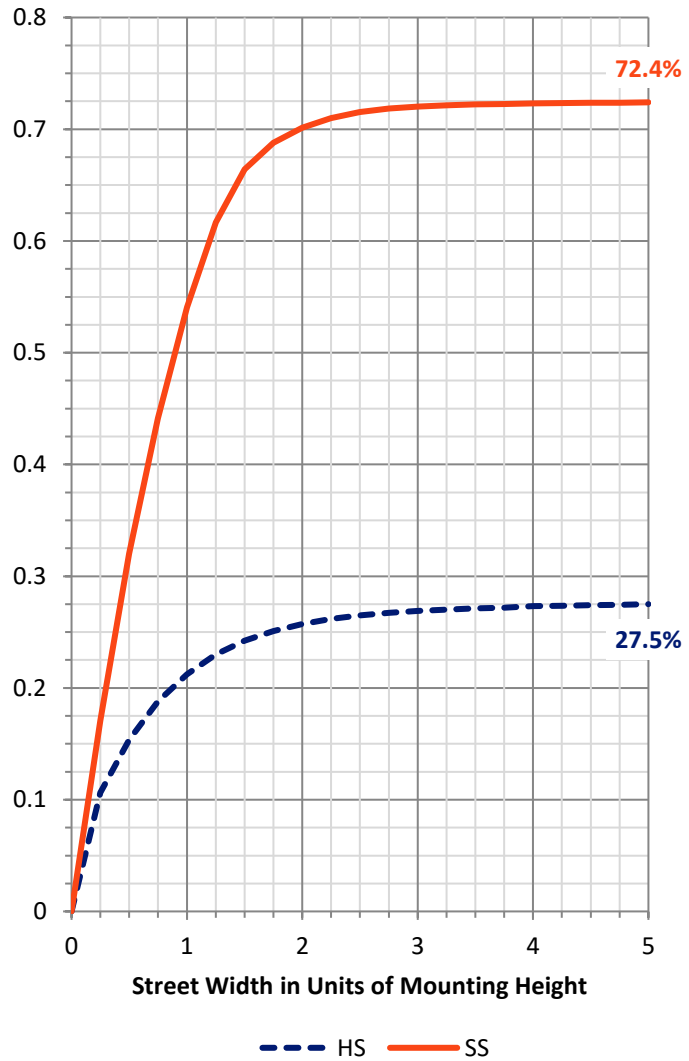
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8979.1 | 0.0 | 8979.1 |
| | % Fixture | 27.7 | 0.0 | 27.7 |
| Street Side | Lumens | 23476.9 | 0.0 | 23476.9 |
| | % Fixture | 72.3 | 0.0 | 72.3 |
| Total | Lumens | 32456.0 | 0.0 | 32456.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1087.9 | 3.4 |
| 10°-20° | 2519.0 | 7.8 |
| 20°-30° | 3539.2 | 10.9 |
| 30°-40° | 4947.9 | 15.2 |
| 40°-50° | 6698.5 | 20.6 |
| 50°-60° | 8159.0 | 25.1 |
| 60°-70° | 4249.6 | 13.1 |
| 70°-80° | 1088.9 | 3.4 |
| 80°-90° | 166.1 | 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° | 32456.0 | 100.0 |
| 0°-180° | 32456.0 | 100.0 |

Coefficient of Utilization



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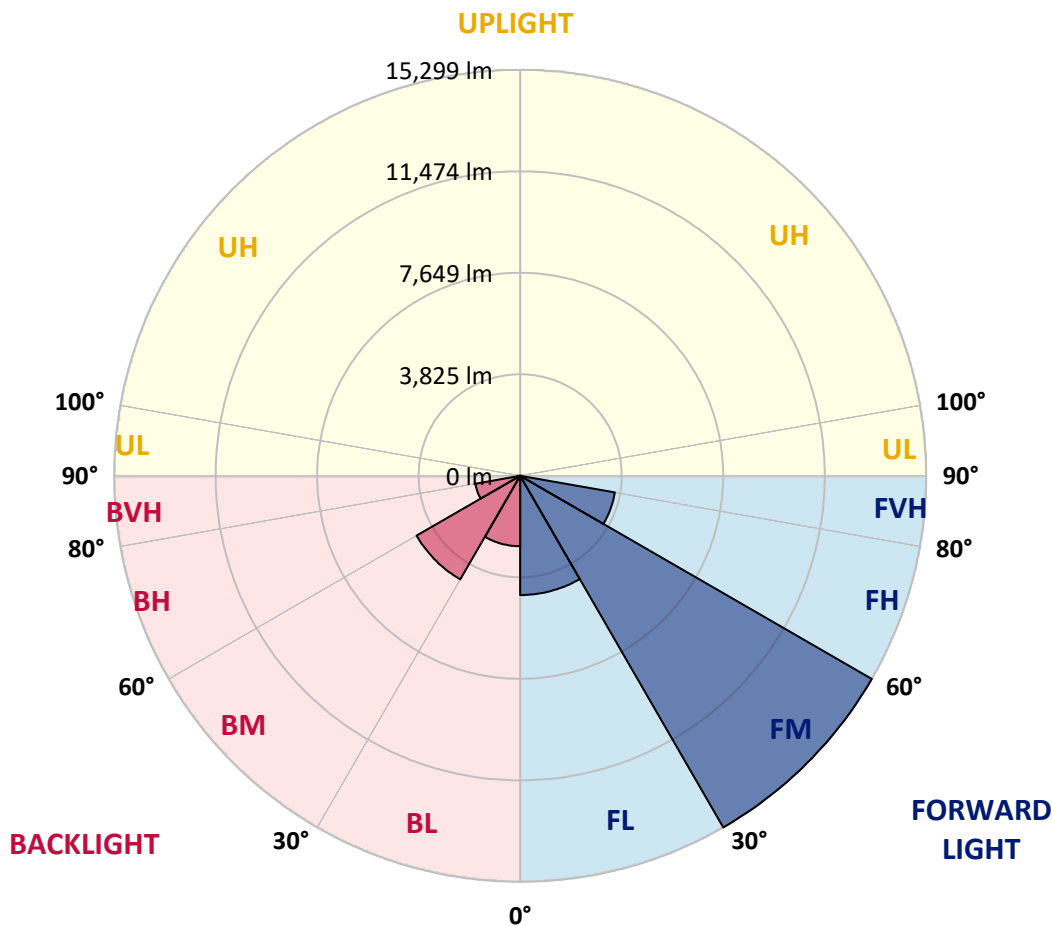
CATALOG NUMBER: GLAN-SA6D-727-U-SL3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4492.4 | 13.8 | | | |
| FM (30°-60°) | 15298.8 | 47.1 | | | |
| FH (60°-80°) | 3623.0 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 62.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2653.8 | 8.2 | B4/5000 | | |
| BM (30°-60°) | 4506.5 | 13.9 | B3/5000 | | |
| BH (60°-80°) | 1715.5 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 103.3 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12615.3 | 12615.3 | 12615.3 | 12615.3 | 12615.3 | 12615.3 | 12615.3 | 12615.3 | 12615.3 | 12615.3 | 12615.3 |
| 2.5° | 12974.0 | 12924.0 | 12932.3 | 12999.1 | 12915.6 | 12882.3 | 12882.3 | 12719.6 | 12732.1 | 12619.4 | 12590.2 |
| 5° | 12673.7 | 12556.9 | 12636.1 | 12736.3 | 12752.9 | 12786.3 | 12840.5 | 12798.8 | 12682.0 | 12561.0 | 12365.0 |
| 7.5° | 11889.4 | 11993.7 | 12022.9 | 12093.8 | 12244.0 | 12381.7 | 12552.7 | 12435.9 | 12431.7 | 12310.7 | 12193.9 |
| 10° | 11201.1 | 11138.5 | 11297.0 | 11401.3 | 11651.6 | 11881.1 | 12143.9 | 12131.4 | 12193.9 | 12056.3 | 11856.0 |
| 12.5° | 10516.9 | 10466.8 | 10541.9 | 10779.7 | 11130.1 | 11463.9 | 11776.8 | 11660.0 | 11993.7 | 11968.7 | 11539.0 |
| 15° | 9791.0 | 9828.6 | 9937.0 | 10158.1 | 10617.0 | 11017.5 | 11413.8 | 11418.0 | 11714.2 | 11814.3 | 11238.6 |
| 17.5° | 9282.1 | 9240.4 | 9378.0 | 9707.6 | 10116.4 | 10596.2 | 11046.7 | 11138.5 | 11593.2 | 11651.6 | 11146.8 |
| 20° | 8902.4 | 8960.9 | 9140.2 | 9307.1 | 9778.5 | 10358.4 | 10867.3 | 10900.7 | 11568.2 | 11726.7 | 11000.8 |
| 22.5° | 8810.7 | 8777.3 | 8835.7 | 9106.9 | 9494.8 | 10124.8 | 10771.4 | 10896.5 | 11564.0 | 11701.7 | 10725.5 |
| 25° | 8714.7 | 8823.2 | 8819.0 | 9090.2 | 9373.9 | 9937.0 | 10850.6 | 10988.3 | 11785.1 | 11831.0 | 10763.0 |
| 27.5° | 8931.6 | 8919.1 | 9035.9 | 9056.8 | 9407.2 | 9987.1 | 11017.5 | 11121.8 | 12152.2 | 12114.7 | 10792.2 |
| 30° | 9148.6 | 9086.0 | 9156.9 | 9403.1 | 9565.7 | 10274.9 | 11476.4 | 11468.1 | 12627.8 | 12602.8 | 10884.0 |
| 32.5° | 9415.6 | 9386.4 | 9432.3 | 9649.2 | 9924.5 | 10658.7 | 11864.4 | 12110.5 | 13111.7 | 13270.2 | 11201.1 |
| 35° | 9465.6 | 9586.6 | 9695.1 | 9987.1 | 10379.2 | 11280.3 | 12594.4 | 12798.8 | 13670.7 | 14167.2 | 11806.0 |
| 37.5° | 9782.7 | 9828.6 | 10083.0 | 10600.3 | 10959.1 | 12110.5 | 13057.5 | 13186.8 | 14179.7 | 14742.9 | 12444.2 |
| 40° | 10120.6 | 10174.8 | 10558.6 | 11100.9 | 11593.2 | 12652.8 | 13491.3 | 13533.1 | 14342.4 | 15185.1 | 12861.4 |
| 42.5° | 10579.5 | 10629.5 | 11009.2 | 11689.2 | 12348.3 | 13115.9 | 13875.1 | 13921.0 | 14329.9 | 15694.0 | 13524.7 |
| 45° | 11055.1 | 11176.0 | 11622.4 | 12394.2 | 12986.6 | 13658.2 | 13962.7 | 14150.5 | 14446.7 | 16148.7 | 14062.9 |
| 47.5° | 11722.5 | 11835.2 | 12202.3 | 12957.4 | 13649.9 | 14133.8 | 14367.4 | 14551.0 | 14726.2 | 16545.0 | 14409.1 |
| 50° | 12431.7 | 12452.6 | 12899.0 | 13583.1 | 14092.1 | 14671.9 | 15122.5 | 15185.1 | 15093.3 | 17003.9 | 14997.3 |
| 52.5° | 12953.2 | 13019.9 | 13366.2 | 14033.7 | 14792.9 | 15506.3 | 16123.7 | 16190.4 | 16011.1 | 17175.0 | 15197.6 |
| 55° | 12089.6 | 12052.1 | 12615.3 | 13503.9 | 15264.3 | 16749.4 | 17646.4 | 17696.4 | 16678.5 | 17704.8 | 15852.5 |
| 57.5° | 9344.6 | 9524.0 | 10003.8 | 11075.9 | 13562.3 | 17300.1 | 18822.8 | 18643.4 | 17479.5 | 17971.8 | 16269.7 |
| 60° | 6791.6 | 6749.8 | 7071.1 | 7788.6 | 10220.7 | 14909.7 | 17796.5 | 17980.1 | 16824.5 | 16198.8 | 13416.2 |
| 62.5° | 5531.7 | 5473.3 | 5498.3 | 5523.4 | 6595.5 | 9895.3 | 13174.3 | 13170.1 | 12957.4 | 11643.3 | 9048.5 |
| 65° | 4422.0 | 4559.7 | 4572.2 | 4759.9 | 4897.6 | 5911.3 | 7634.2 | 8043.1 | 7004.3 | 5744.5 | 4167.5 |
| 67.5° | 3333.2 | 3283.1 | 3450.0 | 4117.5 | 4376.1 | 4267.7 | 4167.5 | 4213.4 | 2995.3 | 2160.9 | 2035.8 |
| 70° | 1964.9 | 1944.0 | 2144.3 | 2870.1 | 3604.4 | 3391.6 | 3141.3 | 3145.5 | 2056.7 | 1510.2 | 1681.2 |
| 72.5° | 1076.3 | 1072.1 | 1113.8 | 1455.9 | 2048.3 | 2127.6 | 1885.6 | 1944.0 | 1226.5 | 1222.3 | 1314.1 |
| 75° | 600.7 | 588.2 | 575.7 | 642.4 | 738.4 | 780.1 | 796.8 | 805.1 | 842.7 | 942.8 | 980.4 |
| 77.5° | 221.1 | 212.8 | 212.8 | 246.1 | 312.9 | 392.1 | 496.4 | 504.8 | 596.6 | 684.2 | 721.7 |
| 80° | 75.1 | 83.4 | 112.6 | 154.4 | 208.6 | 279.5 | 337.9 | 346.3 | 421.3 | 479.7 | 492.3 |
| 82.5° | 45.9 | 50.1 | 75.1 | 108.5 | 150.2 | 196.1 | 250.3 | 254.5 | 312.9 | 350.4 | 367.1 |
| 85° | 20.9 | 25.0 | 41.7 | 66.7 | 95.9 | 129.3 | 133.5 | 133.5 | 129.3 | 133.5 | 125.2 |
| 87.5° | 0.0 | 0.0 | 8.3 | 8.3 | 8.3 | 12.5 | 16.7 | 12.5 | 20.9 | 25.0 | 25.0 |
| 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-SA6D-727-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12615.3 | 12615.3 | 12615.3 | 12615.3 | 12615.3 | 12615.3 | 12615.3 | 12615.3 | 12615.3 | 12615.3 | 12615.3 |
| 2.5° | 12502.6 | 12456.8 | 12314.9 | 12189.8 | 12152.2 | 11985.3 | 11739.2 | 11768.4 | 11589.0 | 11672.5 | 11584.9 |
| 5° | 12331.6 | 12177.2 | 11814.3 | 11660.0 | 11255.3 | 11071.7 | 10946.6 | 10633.7 | 10487.7 | 10458.5 | 10333.3 |
| 7.5° | 11893.6 | 11797.6 | 11342.9 | 10925.7 | 10496.0 | 10128.9 | 9657.5 | 9336.3 | 9106.9 | 9044.3 | 8860.7 |
| 10° | 11547.3 | 11334.6 | 10704.6 | 10070.5 | 9457.3 | 8819.0 | 8205.8 | 7726.0 | 7492.4 | 7221.2 | 7129.5 |
| 12.5° | 11205.2 | 10884.0 | 10033.0 | 9219.5 | 8426.9 | 7621.7 | 6879.2 | 6295.1 | 5786.2 | 5665.2 | 5623.5 |
| 15° | 10992.5 | 10433.5 | 9432.3 | 8451.9 | 7325.5 | 6274.3 | 5531.7 | 5147.9 | 4835.0 | 4705.7 | 4797.5 |
| 17.5° | 10713.0 | 10062.2 | 8856.6 | 7550.8 | 6311.8 | 5344.0 | 4722.4 | 4484.6 | 4372.0 | 4384.5 | 4346.9 |
| 20° | 10362.5 | 9711.8 | 8101.5 | 6733.2 | 5406.5 | 4634.8 | 4280.2 | 4192.6 | 4209.3 | 4238.5 | 4226.0 |
| 22.5° | 10112.2 | 9286.2 | 7555.0 | 5898.8 | 4672.3 | 4242.6 | 4096.6 | 4034.1 | 4088.3 | 4113.3 | 4092.5 |
| 25° | 9920.3 | 8923.3 | 6891.7 | 5160.4 | 4246.8 | 4021.5 | 3954.8 | 3950.6 | 4034.1 | 4067.4 | 4046.6 |
| 27.5° | 9745.1 | 8585.4 | 6232.5 | 4597.2 | 3963.1 | 3850.5 | 3829.6 | 3879.7 | 3933.9 | 3967.3 | 3996.5 |
| 30° | 9640.8 | 8326.7 | 5615.1 | 4125.8 | 3821.3 | 3767.1 | 3729.5 | 3775.4 | 3804.6 | 3838.0 | 3821.3 |
| 32.5° | 9741.0 | 8143.2 | 5018.6 | 3858.8 | 3704.5 | 3650.3 | 3700.3 | 3671.1 | 3721.2 | 3750.4 | 3704.5 |
| 35° | 10053.8 | 7980.5 | 4593.1 | 3717.0 | 3571.0 | 3591.8 | 3600.2 | 3587.7 | 3608.5 | 3583.5 | 3637.7 |
| 37.5° | 10362.5 | 7922.1 | 4200.9 | 3596.0 | 3508.4 | 3508.4 | 3500.1 | 3475.0 | 3516.8 | 3508.4 | 3533.4 |
| 40° | 10754.7 | 7959.6 | 3867.2 | 3466.7 | 3450.0 | 3441.7 | 3408.3 | 3404.1 | 3387.4 | 3391.6 | 3400.0 |
| 42.5° | 11096.8 | 8043.1 | 3675.3 | 3383.3 | 3395.8 | 3412.5 | 3349.9 | 3299.8 | 3320.7 | 3279.0 | 3279.0 |
| 45° | 11459.7 | 8118.2 | 3504.2 | 3324.9 | 3312.3 | 3308.2 | 3258.1 | 3228.9 | 3212.2 | 3216.4 | 3253.9 |
| 47.5° | 12031.2 | 8226.6 | 3374.9 | 3245.6 | 3253.9 | 3191.4 | 3178.8 | 3141.3 | 3158.0 | 3183.0 | 3187.2 |
| 50° | 12435.9 | 8456.1 | 3274.8 | 3153.8 | 3183.0 | 3141.3 | 3066.2 | 3049.5 | 3049.5 | 3091.2 | 3082.9 |
| 52.5° | 12719.6 | 8777.3 | 3178.8 | 3053.7 | 3066.2 | 3032.8 | 3007.8 | 2970.3 | 2945.2 | 3003.6 | 3032.8 |
| 55° | 13587.3 | 9311.3 | 3153.8 | 2970.3 | 2966.1 | 2932.7 | 2886.8 | 2849.3 | 2836.8 | 2845.1 | 2903.5 |
| 57.5° | 13503.9 | 9144.4 | 3074.6 | 2824.3 | 2815.9 | 2770.0 | 2724.1 | 2711.6 | 2707.4 | 2715.8 | 2732.5 |
| 60° | 10963.3 | 6754.0 | 2745.0 | 2657.4 | 2644.9 | 2636.5 | 2590.6 | 2540.6 | 2515.5 | 2540.6 | 2519.7 |
| 62.5° | 7254.6 | 4522.1 | 2419.6 | 2457.1 | 2465.5 | 2444.6 | 2369.5 | 2319.5 | 2327.8 | 2357.0 | 2311.1 |
| 65° | 3562.6 | 2657.4 | 2194.3 | 2294.4 | 2302.8 | 2244.4 | 2173.5 | 2115.1 | 2085.9 | 2110.9 | 2090.0 |
| 67.5° | 2035.8 | 2031.6 | 2010.8 | 2115.1 | 2110.9 | 2052.5 | 1939.8 | 1889.8 | 1839.7 | 1848.1 | 1835.6 |
| 70° | 1727.1 | 1760.5 | 1802.2 | 1864.8 | 1860.6 | 1793.8 | 1660.3 | 1622.8 | 1551.9 | 1543.5 | 1522.7 |
| 72.5° | 1360.0 | 1418.4 | 1510.2 | 1556.1 | 1518.5 | 1435.1 | 1347.5 | 1284.9 | 1222.3 | 1184.8 | 1197.3 |
| 75° | 1009.6 | 1093.0 | 1143.1 | 1172.3 | 1113.8 | 1068.0 | 997.0 | 921.9 | 846.9 | 813.5 | 801.0 |
| 77.5° | 734.2 | 759.3 | 805.1 | 826.0 | 788.5 | 742.6 | 700.8 | 625.8 | 554.8 | 508.9 | 496.4 |
| 80° | 513.1 | 529.8 | 563.2 | 563.2 | 563.2 | 542.3 | 488.1 | 413.0 | 367.1 | 325.4 | 317.1 |
| 82.5° | 358.8 | 375.5 | 408.8 | 392.1 | 388.0 | 362.9 | 329.6 | 271.2 | 221.1 | 191.9 | 183.6 |
| 85° | 125.2 | 137.7 | 166.9 | 200.2 | 212.8 | 208.6 | 187.7 | 150.2 | 116.8 | 95.9 | 87.6 |
| 87.5° | 29.2 | 29.2 | 33.4 | 29.2 | 29.2 | 33.4 | 29.2 | 29.2 | 29.2 | 20.9 | 16.7 |
| 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)