

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: P529795

Luminaire Tested: **GLAN-SA5A-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5A-727-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10588 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

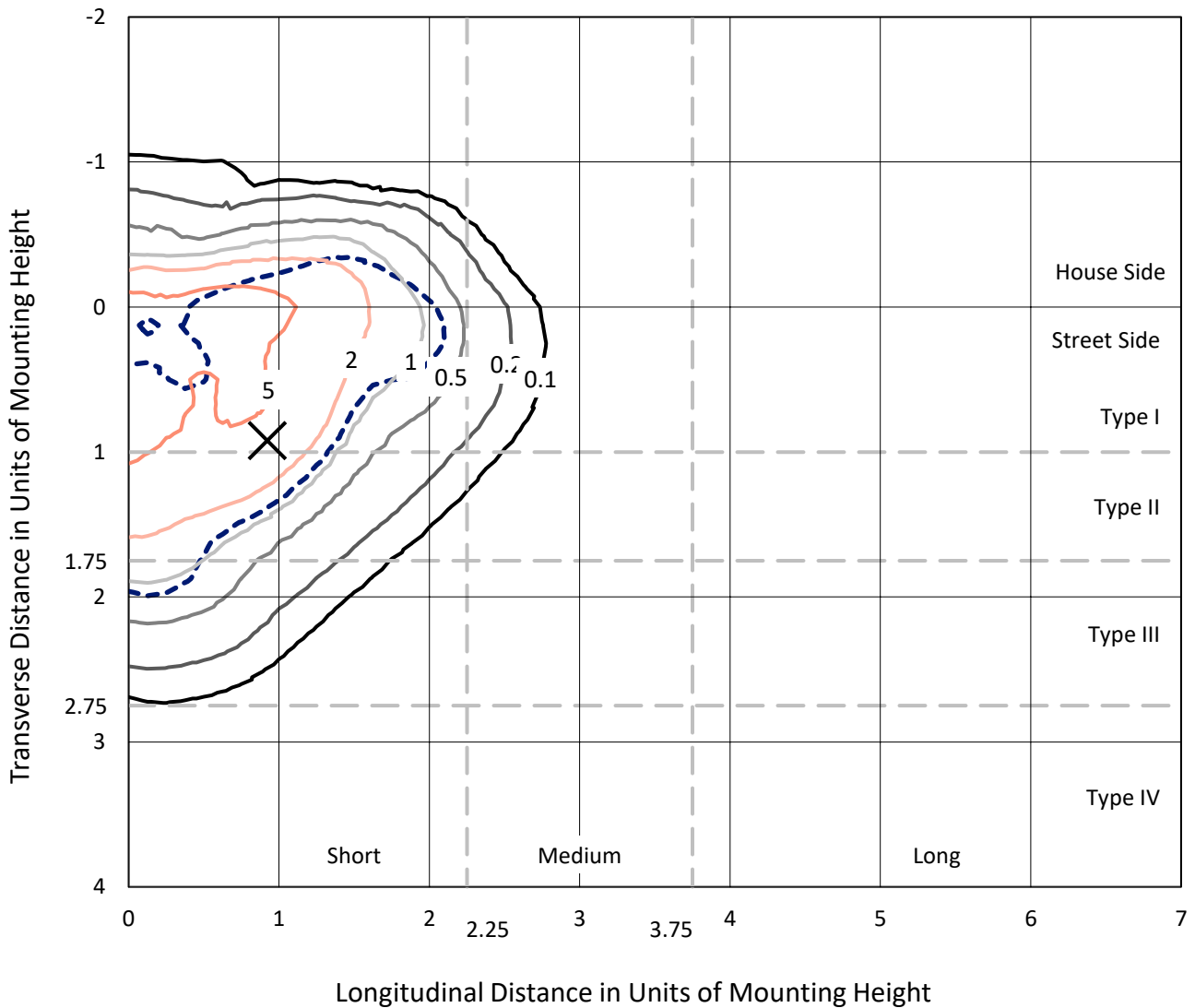
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

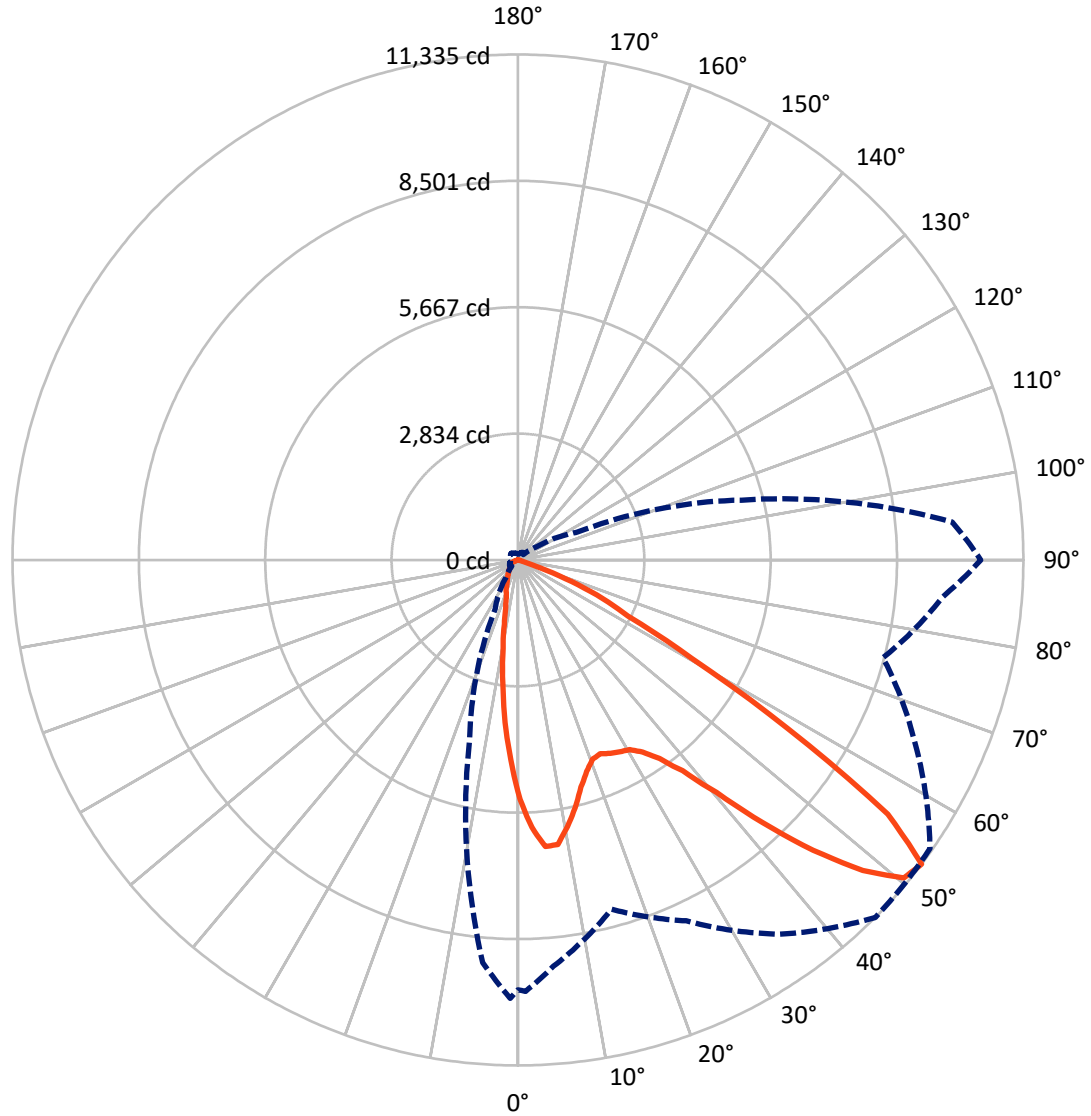
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2148.8 | 0.0 | 2148.8 |
| | % Fixture | 20.3 | 0.0 | 20.3 |
| Street Side | Lumens | 8439.2 | 0.0 | 8439.2 |
| | % Fixture | 79.7 | 0.0 | 79.7 |
| Total | Lumens | 10588.0 | 0.0 | 10588.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 391.5 | 3.7 |
| 10°-20° | 772.5 | 7.3 |
| 20°-30° | 1175.6 | 11.1 |
| 30°-40° | 1757.0 | 16.6 |
| 40°-50° | 2502.2 | 23.6 |
| 50°-60° | 2689.7 | 25.4 |
| 60°-70° | 1191.9 | 11.3 |
| 70°-80° | 96.4 | 0.9 |
| 80°-90° | 11.2 | 0.1 |
| 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° | 10588.0 | 100.0 |
| 0°-180° | 10588.0 | 100.0 |

Coefficient of Utilization



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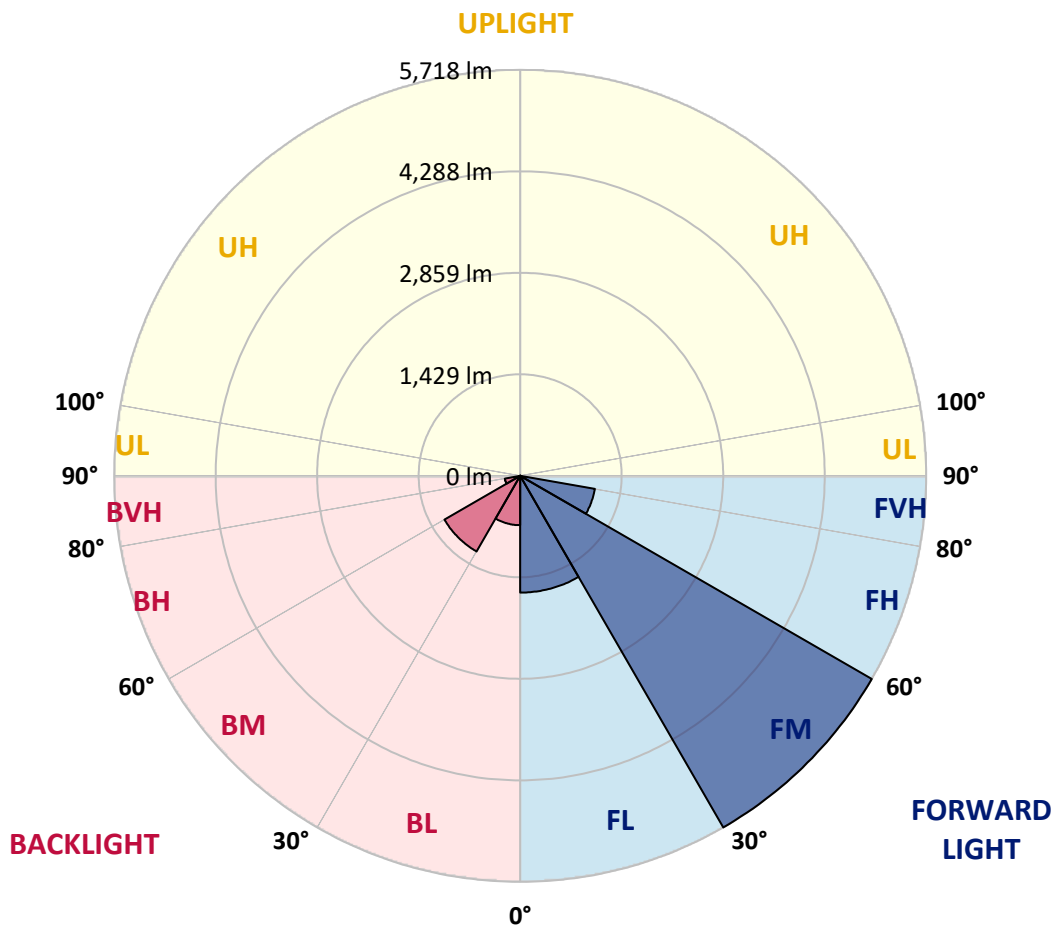
CATALOG NUMBER: GLAN-SA5A-727-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1644.5 | 15.5 | | | |
| FM (30°-60°) | 5717.8 | 54.0 | | | |
| FH (60°-80°) | 1068.5 | 10.1 | | | G1/1800 |
| FVH (80°-90°) | 8.3 | 0.1 | | | G0/10 |
| BL (0°-30°) | 695.0 | 6.6 | B2/1000 | | |
| BM (30°-60°) | 1231.0 | 11.6 | B2/2500 | | |
| BH (60°-80°) | 219.9 | 2.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.9 | 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-G1

Type III Short





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CATALOG NUMBER: GLAN-SA5A-727-U-SLL-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| 0° | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 |
| 2.5° | 5681.0 | 5697.6 | 5789.3 | 5903.8 | 5964.2 | 6101.6 | 6005.8 | 6030.8 | 5978.8 | 5795.5 | 5651.8 |
| 5° | 5508.1 | 5506.1 | 5622.7 | 5905.9 | 6174.5 | 6447.3 | 6455.7 | 6309.9 | 6053.7 | 5772.6 | 5370.7 |
| 7.5° | 4987.5 | 5068.7 | 5189.5 | 5641.4 | 6139.1 | 6343.2 | 6441.1 | 6270.3 | 5876.7 | 5474.8 | 5039.6 |
| 10° | 4593.9 | 4635.6 | 4839.7 | 5385.3 | 5749.7 | 6022.5 | 6082.9 | 5985.0 | 5683.1 | 5181.2 | 4693.9 |
| 12.5° | 4366.9 | 4387.8 | 4627.2 | 5085.4 | 5470.6 | 5672.6 | 5701.8 | 5747.6 | 5531.0 | 5060.4 | 4475.2 |
| 15° | 4369.0 | 4385.7 | 4708.5 | 5091.6 | 5243.7 | 5189.5 | 5285.3 | 5283.2 | 5376.9 | 5037.5 | 4658.5 |
| 17.5° | 4683.5 | 4702.2 | 4993.8 | 5183.3 | 5116.6 | 4989.6 | 4983.4 | 5079.1 | 5277.0 | 5322.8 | 4935.5 |
| 20° | 5224.9 | 5268.6 | 5483.1 | 5472.7 | 5097.9 | 4841.7 | 4770.9 | 4843.8 | 5304.1 | 5564.4 | 5493.6 |
| 22.5° | 5953.8 | 6014.2 | 6164.1 | 5876.7 | 5183.3 | 4741.8 | 4718.9 | 4860.5 | 5483.1 | 6103.7 | 6126.6 |
| 25° | 6799.3 | 6901.3 | 6974.2 | 6605.6 | 5487.3 | 4914.6 | 4806.3 | 5050.0 | 5724.7 | 6688.9 | 6932.5 |
| 27.5° | 7359.4 | 7465.7 | 7449.0 | 6922.1 | 5691.4 | 4960.4 | 4868.8 | 5095.8 | 5935.0 | 6828.4 | 7353.2 |
| 30° | 7796.8 | 7861.3 | 7977.9 | 7092.9 | 5895.5 | 5089.6 | 4933.4 | 5289.5 | 6003.8 | 7070.0 | 7861.3 |
| 32.5° | 8307.0 | 8350.7 | 8359.0 | 7394.9 | 6209.9 | 5252.0 | 5133.3 | 5531.0 | 6307.8 | 7301.1 | 8311.1 |
| 35° | 8821.3 | 8885.9 | 8750.5 | 7767.6 | 6403.6 | 5553.9 | 5466.5 | 5949.6 | 6551.5 | 7540.6 | 8806.8 |
| 37.5° | 9379.4 | 9412.8 | 9100.4 | 7921.7 | 6680.6 | 6045.4 | 5997.5 | 6401.5 | 6974.2 | 7973.8 | 9356.5 |
| 40° | 9848.0 | 9879.2 | 9473.2 | 8111.2 | 6972.1 | 6732.6 | 6855.5 | 7263.7 | 7549.0 | 8254.9 | 9631.4 |
| 42.5° | 10108.3 | 10181.2 | 9598.1 | 8007.1 | 7557.3 | 7511.5 | 8057.1 | 8200.8 | 8215.3 | 8334.0 | 9877.2 |
| 45° | 10179.1 | 10145.8 | 9391.9 | 8092.5 | 8069.6 | 8792.2 | 9287.8 | 9477.3 | 8877.6 | 8479.8 | 9939.6 |
| 47.5° | 9852.2 | 9895.9 | 9087.9 | 8017.5 | 8742.2 | 9762.6 | 10404.0 | 10756.0 | 9371.1 | 8352.8 | 9785.5 |
| 50° | 9587.7 | 9531.5 | 8990.0 | 7963.4 | 8923.4 | 10220.8 | 11209.9 | 11289.1 | 9825.1 | 8509.0 | 9616.8 |
| 52.5° | 9639.8 | 9675.2 | 9146.2 | 8107.1 | 8927.5 | 10247.8 | 11334.9 | 11280.7 | 9839.7 | 8473.6 | 9556.5 |
| 55° | 9750.1 | 9593.9 | 9079.6 | 7790.5 | 8329.9 | 9491.9 | 10060.4 | 9977.1 | 9081.7 | 8096.6 | 9408.6 |
| 57.5° | 8413.2 | 8654.7 | 8348.6 | 6955.5 | 6836.7 | 7151.2 | 7140.8 | 7396.9 | 6774.3 | 6967.9 | 8565.2 |
| 60° | 6828.4 | 6870.1 | 6984.6 | 5949.6 | 4731.4 | 4623.1 | 4473.1 | 4310.7 | 4558.5 | 5957.9 | 7790.5 |
| 62.5° | 6005.8 | 5955.9 | 6364.0 | 5412.3 | 3340.3 | 2796.8 | 2771.8 | 2871.7 | 3517.3 | 5683.1 | 7307.4 |
| 65° | 4364.9 | 4427.3 | 4723.0 | 4200.3 | 2507.3 | 2134.5 | 2097.0 | 2392.8 | 2846.7 | 4554.4 | 5576.9 |
| 67.5° | 2665.6 | 2786.3 | 2813.4 | 2590.6 | 1701.4 | 1351.5 | 1297.4 | 1566.0 | 2055.4 | 2946.7 | 3269.5 |
| 70° | 1230.7 | 1376.5 | 1514.0 | 1414.0 | 985.0 | 556.0 | 524.8 | 658.1 | 1037.1 | 1695.1 | 1734.7 |
| 72.5° | 372.8 | 374.8 | 524.8 | 547.7 | 318.6 | 124.9 | 110.4 | 145.8 | 351.9 | 560.2 | 589.3 |
| 75° | 27.1 | 29.2 | 70.8 | 81.2 | 60.4 | 31.2 | 33.3 | 39.6 | 75.0 | 124.9 | 93.7 |
| 77.5° | 2.1 | 2.1 | 2.1 | 10.4 | 18.7 | 20.8 | 27.1 | 31.2 | 39.6 | 45.8 | 41.6 |
| 80° | 2.1 | 0.0 | 2.1 | 8.3 | 14.6 | 20.8 | 25.0 | 29.2 | 31.2 | 35.4 | 31.2 |
| 82.5° | 0.0 | 0.0 | 0.0 | 6.2 | 14.6 | 20.8 | 22.9 | 31.2 | 35.4 | 41.6 | 35.4 |
| 85° | 0.0 | 0.0 | 0.0 | 6.2 | 14.6 | 22.9 | 20.8 | 10.4 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 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 | 0.0 |



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CATALOG NUMBER: GLAN-SA5A-727-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 |
| 2.5° | 5676.8 | 5595.6 | 5410.3 | 5316.5 | 5095.8 | 5064.6 | 4848.0 | 4812.6 | 4739.7 | 4700.1 | 4604.3 |
| 5° | 5193.7 | 5095.8 | 4793.8 | 4539.8 | 4244.1 | 4037.9 | 3879.6 | 3736.0 | 3652.7 | 3575.6 | 3611.0 |
| 7.5° | 4800.1 | 4514.8 | 4179.5 | 3754.7 | 3413.2 | 3192.4 | 2950.9 | 2753.0 | 2636.4 | 2557.3 | 2576.0 |
| 10° | 4387.8 | 4202.4 | 3736.0 | 3259.1 | 2846.7 | 2690.6 | 2501.0 | 2349.0 | 2184.5 | 2042.9 | 1976.3 |
| 12.5° | 4258.7 | 3983.8 | 3398.6 | 2913.4 | 2601.0 | 2449.0 | 2232.4 | 2057.5 | 1847.2 | 1674.3 | 1613.9 |
| 15° | 4281.6 | 4017.1 | 3307.0 | 2788.4 | 2419.8 | 2157.4 | 1899.2 | 1682.6 | 1451.5 | 1330.7 | 1268.2 |
| 17.5° | 4654.3 | 4196.2 | 3367.4 | 2657.2 | 2167.9 | 1803.4 | 1484.8 | 1209.9 | 1037.1 | 912.1 | 885.0 |
| 20° | 5112.5 | 4583.5 | 3496.5 | 2561.4 | 1961.7 | 1434.8 | 1085.0 | 847.6 | 703.9 | 683.1 | 676.8 |
| 22.5° | 5783.0 | 5216.6 | 3773.4 | 2496.9 | 1709.7 | 1118.3 | 743.4 | 616.4 | 576.8 | 572.7 | 574.8 |
| 25° | 6720.1 | 6010.0 | 4075.4 | 2442.7 | 1520.2 | 862.1 | 608.1 | 522.7 | 510.2 | 504.0 | 514.4 |
| 27.5° | 7126.2 | 6489.0 | 4235.7 | 2326.1 | 1347.4 | 776.8 | 599.8 | 518.5 | 483.1 | 472.7 | 479.0 |
| 30° | 7628.1 | 6807.6 | 4487.7 | 2126.2 | 1093.3 | 639.3 | 560.2 | 564.3 | 547.7 | 495.6 | 479.0 |
| 32.5° | 8294.5 | 7205.3 | 4614.8 | 1984.6 | 976.7 | 528.9 | 410.2 | 376.9 | 420.7 | 429.0 | 443.6 |
| 35° | 8721.4 | 7609.3 | 4679.3 | 1901.3 | 916.3 | 451.9 | 347.8 | 316.5 | 306.1 | 308.2 | 316.5 |
| 37.5° | 9514.8 | 8155.0 | 4760.5 | 1813.8 | 870.5 | 393.6 | 314.5 | 285.3 | 270.7 | 270.7 | 279.1 |
| 40° | 9989.6 | 8588.1 | 4870.9 | 1765.9 | 824.7 | 358.2 | 285.3 | 260.3 | 247.8 | 247.8 | 252.0 |
| 42.5° | 10108.3 | 8802.6 | 4833.4 | 1749.3 | 772.6 | 349.9 | 260.3 | 241.6 | 227.0 | 224.9 | 222.8 |
| 45° | 10320.7 | 9129.5 | 4839.7 | 1730.5 | 718.5 | 318.6 | 245.7 | 224.9 | 204.1 | 202.0 | 199.9 |
| 47.5° | 10554.0 | 9364.9 | 4852.2 | 1657.6 | 666.4 | 266.6 | 256.1 | 208.2 | 183.3 | 179.1 | 179.1 |
| 50° | 10354.0 | 9552.3 | 4960.4 | 1584.8 | 599.8 | 216.6 | 252.0 | 195.8 | 162.4 | 156.2 | 158.3 |
| 52.5° | 10379.0 | 9773.0 | 5189.5 | 1482.7 | 516.5 | 172.8 | 204.1 | 185.3 | 147.9 | 137.4 | 139.5 |
| 55° | 9979.2 | 9539.8 | 5220.8 | 1374.4 | 404.0 | 133.3 | 156.2 | 162.4 | 124.9 | 120.8 | 120.8 |
| 57.5° | 8590.2 | 8077.9 | 4606.4 | 1114.1 | 266.6 | 110.4 | 112.5 | 141.6 | 108.3 | 104.1 | 106.2 |
| 60° | 7351.1 | 6484.8 | 3706.8 | 735.1 | 166.6 | 87.5 | 81.2 | 143.7 | 95.8 | 93.7 | 100.0 |
| 62.5° | 6701.4 | 5329.0 | 2811.3 | 456.1 | 114.5 | 66.6 | 56.2 | 116.6 | 83.3 | 83.3 | 91.6 |
| 65° | 4841.7 | 3579.8 | 1634.7 | 239.5 | 81.2 | 52.1 | 41.6 | 66.6 | 68.7 | 70.8 | 75.0 |
| 67.5° | 2998.8 | 1807.6 | 689.3 | 116.6 | 54.1 | 35.4 | 27.1 | 41.6 | 45.8 | 45.8 | 50.0 |
| 70° | 1480.6 | 720.5 | 229.1 | 66.6 | 41.6 | 29.2 | 18.7 | 22.9 | 22.9 | 20.8 | 22.9 |
| 72.5° | 458.1 | 216.6 | 58.3 | 41.6 | 29.2 | 18.7 | 10.4 | 8.3 | 4.2 | 0.0 | 2.1 |
| 75° | 52.1 | 41.6 | 37.5 | 29.2 | 18.7 | 8.3 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 31.2 | 35.4 | 35.4 | 29.2 | 18.7 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 25.0 | 27.1 | 29.2 | 27.1 | 16.7 | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 31.2 | 35.4 | 39.6 | 35.4 | 22.9 | 10.4 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 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 | 0.0 |



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 CATALOG NUMBER: GLAN-SA5A-727-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 |
| 2.5° | 4564.8 | 4519.0 | 4583.5 | 4487.7 | 4485.6 | 4487.7 | 4460.7 | 4435.7 | 4475.2 | 4581.4 | 4591.8 |
| 5° | 3484.0 | 3581.8 | 3613.1 | 3715.1 | 3658.9 | 3575.6 | 3592.3 | 3536.0 | 3673.5 | 3733.9 | 3686.0 |
| 7.5° | 2536.4 | 2530.2 | 2740.5 | 2753.0 | 2780.1 | 2782.2 | 2778.0 | 2667.6 | 2555.2 | 2580.2 | 2655.1 |
| 10° | 1967.9 | 1861.7 | 1963.8 | 1953.4 | 2020.0 | 2001.3 | 2028.3 | 1909.6 | 1949.2 | 1949.2 | 1997.1 |
| 12.5° | 1603.5 | 1491.0 | 1472.3 | 1445.2 | 1472.3 | 1482.7 | 1493.1 | 1470.2 | 1536.9 | 1568.1 | 1601.4 |
| 15° | 1224.5 | 1162.0 | 1145.4 | 1093.3 | 1101.6 | 1130.8 | 1155.8 | 1166.2 | 1145.4 | 1193.3 | 1197.4 |
| 17.5° | 889.2 | 887.1 | 897.5 | 895.5 | 887.1 | 880.9 | 878.8 | 851.7 | 843.4 | 847.6 | 864.2 |
| 20° | 674.7 | 691.4 | 726.8 | 762.2 | 780.9 | 758.0 | 726.8 | 681.0 | 662.2 | 666.4 | 668.5 |
| 22.5° | 576.8 | 601.8 | 649.7 | 689.3 | 708.0 | 666.4 | 610.2 | 570.6 | 562.3 | 560.2 | 558.1 |
| 25° | 522.7 | 551.9 | 587.3 | 599.8 | 597.7 | 572.7 | 531.0 | 514.4 | 510.2 | 506.0 | 487.3 |
| 27.5° | 493.5 | 504.0 | 510.2 | 524.8 | 531.0 | 514.4 | 504.0 | 479.0 | 474.8 | 474.8 | 462.3 |
| 30° | 476.9 | 470.6 | 479.0 | 468.6 | 476.9 | 464.4 | 466.5 | 466.5 | 456.1 | 460.2 | 460.2 |
| 32.5° | 443.6 | 445.6 | 445.6 | 424.8 | 431.1 | 416.5 | 431.1 | 443.6 | 445.6 | 447.7 | 464.4 |
| 35° | 324.9 | 362.3 | 381.1 | 381.1 | 387.3 | 376.9 | 374.8 | 360.3 | 341.5 | 322.8 | 314.5 |
| 37.5° | 285.3 | 299.9 | 324.9 | 339.4 | 349.9 | 341.5 | 322.8 | 299.9 | 289.5 | 281.1 | 272.8 |
| 40° | 254.1 | 266.6 | 283.2 | 299.9 | 320.7 | 310.3 | 281.1 | 270.7 | 258.2 | 258.2 | 249.9 |
| 42.5° | 229.1 | 235.3 | 245.7 | 270.7 | 293.6 | 272.8 | 252.0 | 243.6 | 237.4 | 235.3 | 233.2 |
| 45° | 206.2 | 208.2 | 218.7 | 239.5 | 266.6 | 245.7 | 224.9 | 214.5 | 216.6 | 218.7 | 216.6 |
| 47.5° | 185.3 | 189.5 | 195.8 | 220.7 | 237.4 | 227.0 | 204.1 | 197.8 | 197.8 | 197.8 | 199.9 |
| 50° | 160.4 | 170.8 | 183.3 | 204.1 | 216.6 | 210.3 | 191.6 | 183.3 | 179.1 | 179.1 | 181.2 |
| 52.5° | 143.7 | 152.0 | 168.7 | 193.7 | 210.3 | 199.9 | 181.2 | 168.7 | 160.4 | 158.3 | 162.4 |
| 55° | 124.9 | 139.5 | 166.6 | 185.3 | 208.2 | 197.8 | 177.0 | 162.4 | 147.9 | 145.8 | 145.8 |
| 57.5° | 112.5 | 135.4 | 160.4 | 183.3 | 202.0 | 193.7 | 177.0 | 158.3 | 139.5 | 137.4 | 137.4 |
| 60° | 106.2 | 131.2 | 156.2 | 177.0 | 202.0 | 189.5 | 174.9 | 154.1 | 133.3 | 133.3 | 131.2 |
| 62.5° | 100.0 | 122.9 | 147.9 | 168.7 | 193.7 | 183.3 | 168.7 | 147.9 | 127.0 | 127.0 | 122.9 |
| 65° | 83.3 | 106.2 | 122.9 | 141.6 | 168.7 | 158.3 | 143.7 | 129.1 | 112.5 | 108.3 | 110.4 |
| 67.5° | 58.3 | 72.9 | 89.5 | 108.3 | 124.9 | 120.8 | 114.5 | 104.1 | 89.5 | 87.5 | 85.4 |
| 70° | 29.2 | 39.6 | 54.1 | 72.9 | 87.5 | 83.3 | 79.1 | 70.8 | 62.5 | 60.4 | 60.4 |
| 72.5° | 4.2 | 12.5 | 22.9 | 33.3 | 45.8 | 47.9 | 45.8 | 43.7 | 41.6 | 39.6 | 41.6 |
| 75° | 0.0 | 0.0 | 0.0 | 8.3 | 18.7 | 22.9 | 27.1 | 31.2 | 31.2 | 27.1 | 33.3 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 10.4 | 20.8 | 27.1 | 33.3 | 29.2 | 39.6 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 12.5 | 20.8 | 29.2 | 33.3 | 29.2 | 41.6 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 14.6 | 20.8 | 27.1 | 31.2 | 29.2 | 37.5 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 12.5 | 8.3 | 4.2 | 2.1 | 2.1 | 6.2 |
| 87.5° | 0.0 | 0.0 | 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 | 0.0 |



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|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 | 5368.6 |
| 2.5° | 4650.2 | 4798.0 | 4956.3 | 5016.7 | 5204.1 | 5345.7 | 5441.5 | 5647.7 | 5678.9 | 5681.0 |
| 5° | 3736.0 | 3810.9 | 4081.6 | 4208.7 | 4487.7 | 4704.3 | 4935.5 | 5268.6 | 5491.5 | 5508.1 |
| 7.5° | 2655.1 | 2863.4 | 2977.9 | 3309.0 | 3652.7 | 3992.1 | 4335.7 | 4723.0 | 4981.3 | 4987.5 |
| 10° | 2136.6 | 2272.0 | 2476.1 | 2723.9 | 3013.3 | 3359.0 | 3817.2 | 4267.0 | 4529.4 | 4593.9 |
| 12.5° | 1720.1 | 1957.5 | 2190.8 | 2446.9 | 2667.6 | 2928.0 | 3421.5 | 4021.2 | 4237.8 | 4366.9 |
| 15° | 1324.5 | 1541.0 | 1815.9 | 2115.8 | 2365.7 | 2713.5 | 3275.7 | 3960.9 | 4325.3 | 4369.0 |
| 17.5° | 976.7 | 1170.3 | 1424.4 | 1707.6 | 2082.5 | 2576.0 | 3300.7 | 4267.0 | 4610.6 | 4683.5 |
| 20° | 701.8 | 814.2 | 1014.2 | 1343.2 | 1820.1 | 2415.7 | 3325.7 | 4577.3 | 5100.0 | 5224.9 |
| 22.5° | 556.0 | 601.8 | 733.0 | 1024.6 | 1526.5 | 2247.0 | 3502.7 | 5170.8 | 5772.6 | 5953.8 |
| 25° | 483.1 | 508.1 | 570.6 | 808.0 | 1341.1 | 2230.3 | 3785.9 | 5883.0 | 6668.1 | 6799.3 |
| 27.5° | 466.5 | 470.6 | 524.8 | 741.4 | 1241.2 | 2120.0 | 3894.2 | 6389.0 | 7226.2 | 7359.4 |
| 30° | 491.5 | 558.1 | 562.3 | 626.8 | 1055.8 | 1901.3 | 3950.4 | 6878.4 | 7698.9 | 7796.8 |
| 32.5° | 424.8 | 404.0 | 418.6 | 485.2 | 928.8 | 1774.3 | 4056.7 | 7305.3 | 8238.3 | 8307.0 |
| 35° | 295.7 | 310.3 | 343.6 | 420.7 | 812.2 | 1641.0 | 4083.7 | 7775.9 | 8750.5 | 8821.3 |
| 37.5° | 272.8 | 281.1 | 308.2 | 358.2 | 714.3 | 1566.0 | 4046.2 | 8119.6 | 9281.6 | 9379.4 |
| 40° | 254.1 | 264.5 | 279.1 | 324.9 | 641.4 | 1482.7 | 3994.2 | 8429.8 | 9606.4 | 9848.0 |
| 42.5° | 239.5 | 247.8 | 260.3 | 310.3 | 578.9 | 1399.4 | 3921.3 | 8867.2 | 9898.0 | 10108.3 |
| 45° | 222.8 | 235.3 | 249.9 | 302.0 | 543.5 | 1343.2 | 3867.1 | 8840.1 | 10066.7 | 10179.1 |
| 47.5° | 206.2 | 227.0 | 243.6 | 281.1 | 533.1 | 1316.1 | 3890.1 | 8738.0 | 9929.2 | 9852.2 |
| 50° | 189.5 | 216.6 | 245.7 | 233.2 | 508.1 | 1262.0 | 3917.1 | 8877.6 | 9602.3 | 9587.7 |
| 52.5° | 174.9 | 206.2 | 229.1 | 191.6 | 451.9 | 1209.9 | 4179.5 | 9060.8 | 9833.4 | 9639.8 |
| 55° | 154.1 | 185.3 | 183.3 | 154.1 | 366.5 | 1170.3 | 4385.7 | 9065.0 | 9677.2 | 9750.1 |
| 57.5° | 139.5 | 164.5 | 143.7 | 129.1 | 270.7 | 978.8 | 4050.4 | 7601.0 | 8284.1 | 8413.2 |
| 60° | 129.1 | 160.4 | 108.3 | 102.0 | 177.0 | 706.0 | 3536.0 | 5887.1 | 6584.8 | 6828.4 |
| 62.5° | 118.7 | 152.0 | 85.4 | 83.3 | 122.9 | 501.9 | 2907.1 | 4927.1 | 5674.7 | 6005.8 |
| 65° | 104.1 | 108.3 | 68.7 | 64.6 | 87.5 | 270.7 | 1770.1 | 3392.3 | 4242.0 | 4364.9 |
| 67.5° | 85.4 | 83.3 | 56.2 | 52.1 | 58.3 | 131.2 | 780.9 | 1699.3 | 2459.4 | 2665.6 |
| 70° | 68.7 | 68.7 | 47.9 | 41.6 | 41.6 | 60.4 | 204.1 | 676.8 | 1112.0 | 1230.7 |
| 72.5° | 50.0 | 52.1 | 37.5 | 33.3 | 31.2 | 29.2 | 33.3 | 135.4 | 291.5 | 372.8 |
| 75° | 43.7 | 45.8 | 37.5 | 29.2 | 22.9 | 18.7 | 14.6 | 12.5 | 16.7 | 27.1 |
| 77.5° | 47.9 | 47.9 | 39.6 | 27.1 | 20.8 | 14.6 | 8.3 | 4.2 | 4.2 | 2.1 |
| 80° | 60.4 | 62.5 | 52.1 | 35.4 | 25.0 | 16.7 | 10.4 | 4.2 | 2.1 | 2.1 |
| 82.5° | 64.6 | 70.8 | 58.3 | 43.7 | 31.2 | 18.7 | 10.4 | 2.1 | 0.0 | 0.0 |
| 85° | 16.7 | 27.1 | 45.8 | 39.6 | 31.2 | 18.7 | 10.4 | 2.1 | 0.0 | 0.0 |
| 87.5° | 0.0 | 2.1 | 6.2 | 6.2 | 8.3 | 8.3 | 6.2 | 2.1 | 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 OF REPORT)