

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: P453915

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453915
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5A-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16509 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

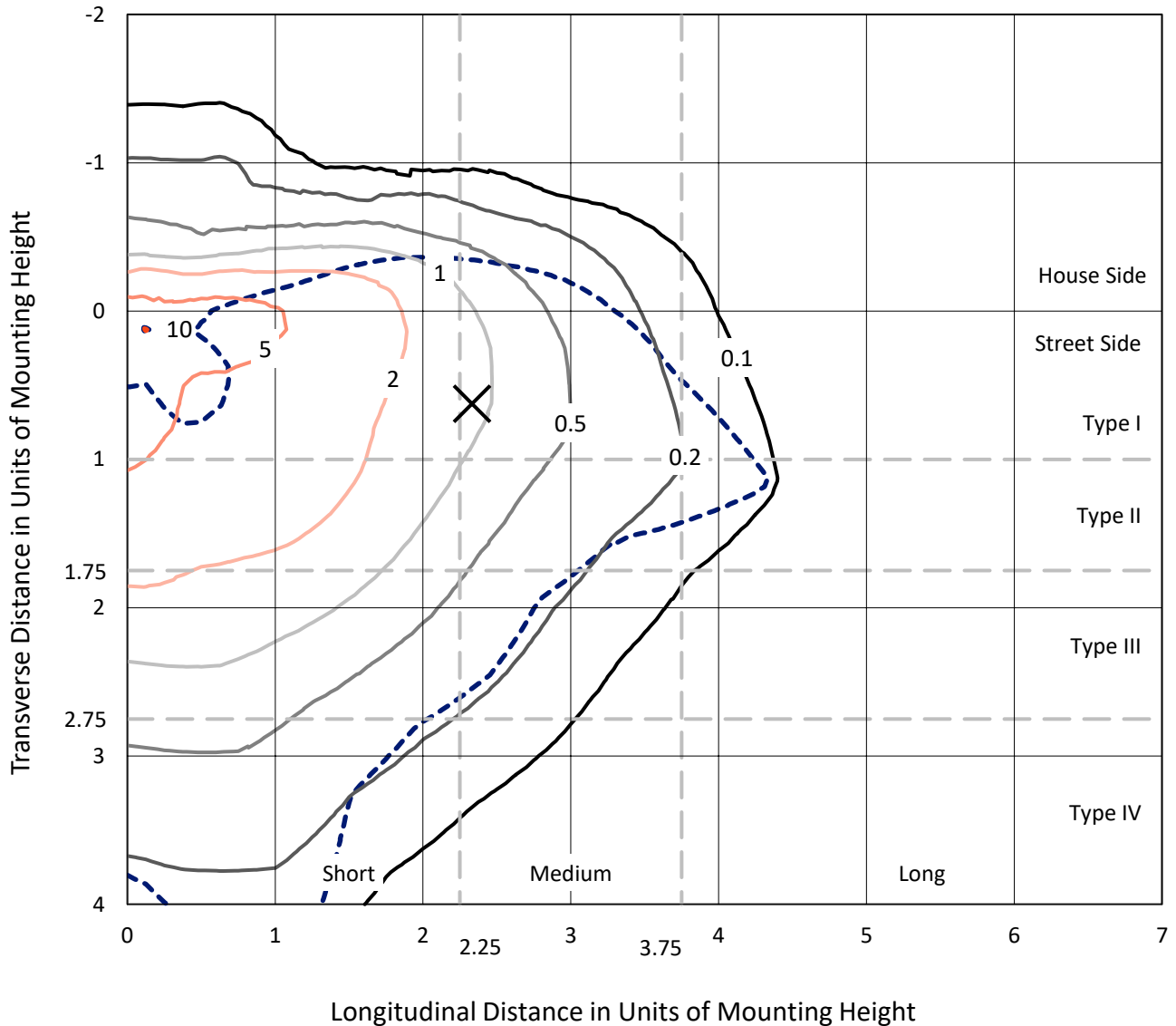
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453915
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Iso-Footcandle Lines of Horizontal Illumination

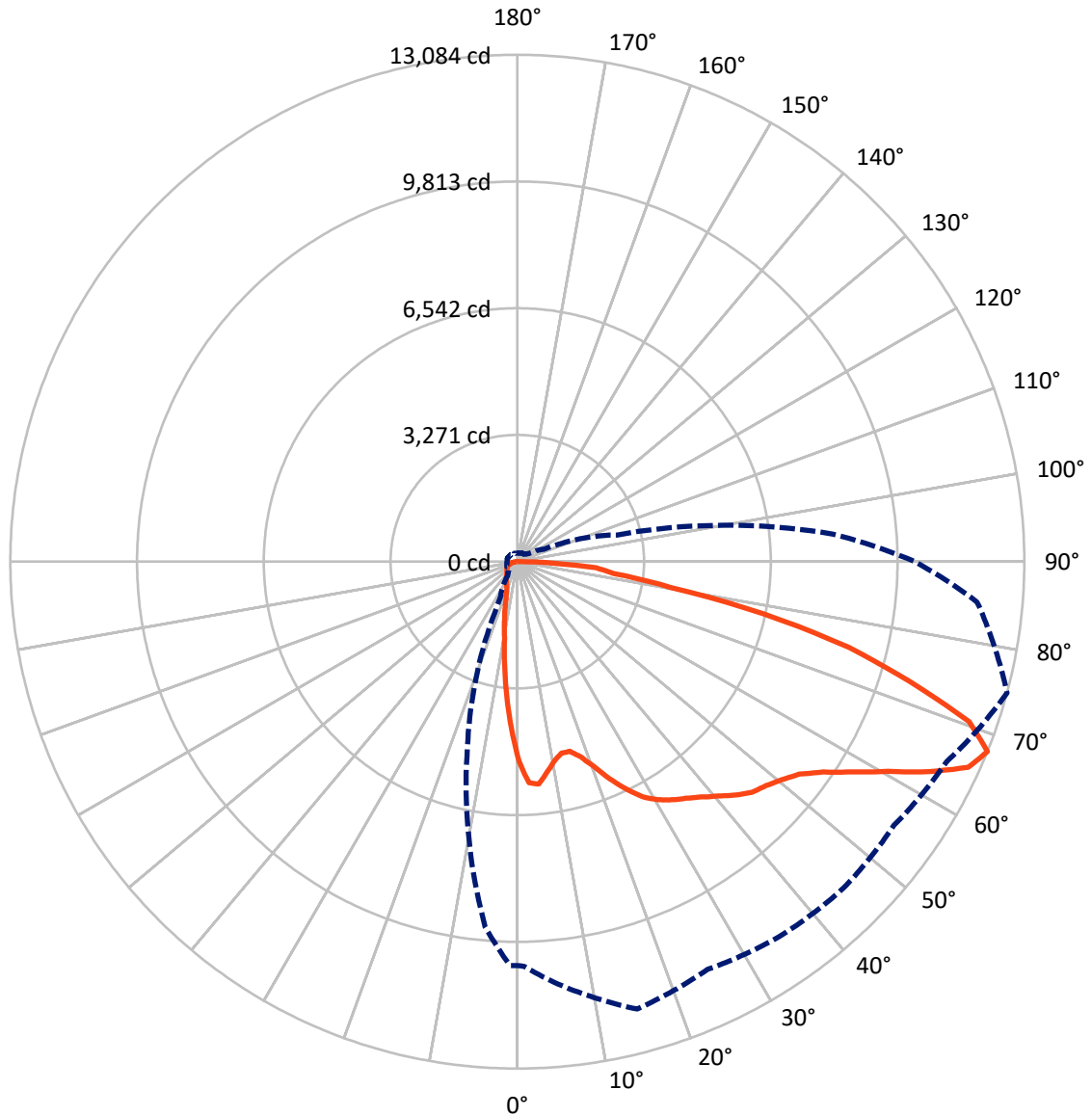
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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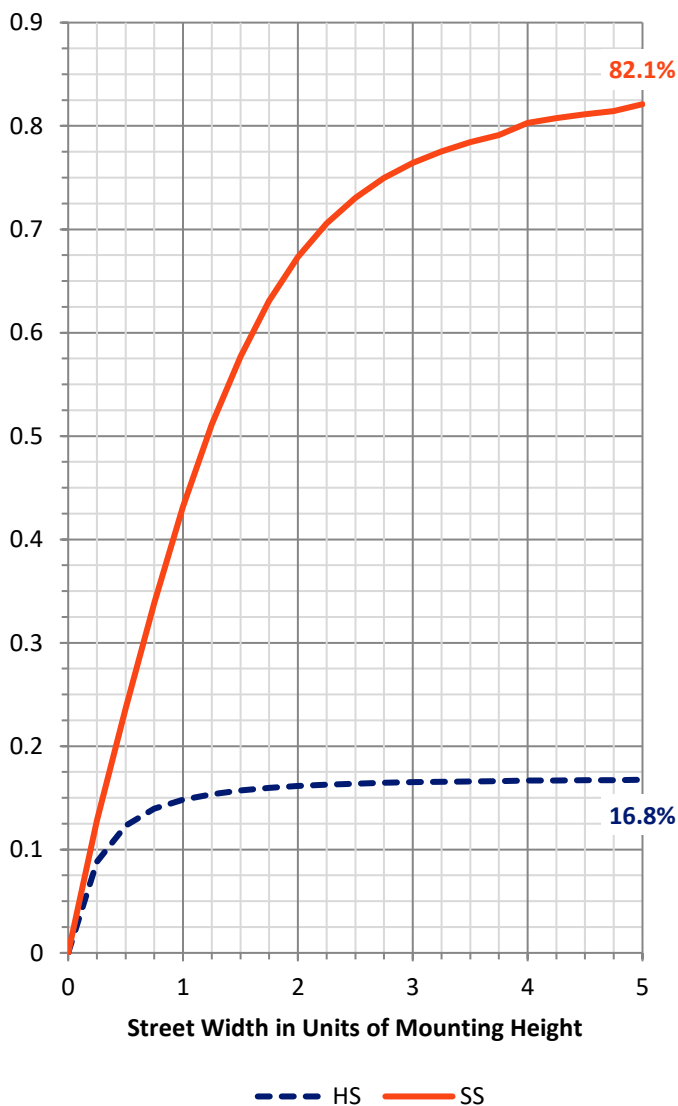
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2790.4 | 0.0 | 2790.4 |
| | % Fixture | 16.9 | 0.0 | 16.9 |
| Street Side | Lumens | 13718.6 | 0.0 | 13718.6 |
| | % Fixture | 83.1 | 0.0 | 83.1 |
| Total | Lumens | 16509.0 | 0.0 | 16509.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 391.2 | 2.4 |
| 10°-20° | 815.9 | 4.9 |
| 20°-30° | 1174.1 | 7.1 |
| 30°-40° | 1691.0 | 10.2 |
| 40°-50° | 2375.3 | 14.4 |
| 50°-60° | 3312.8 | 20.1 |
| 60°-70° | 3938.7 | 23.9 |
| 70°-80° | 2319.7 | 14.1 |
| 80°-90° | 490.5 | 3.0 |
| 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° | 16509.0 | 100.0 |
| 0°-180° | 16509.0 | 100.0 |

Coefficient of Utilization



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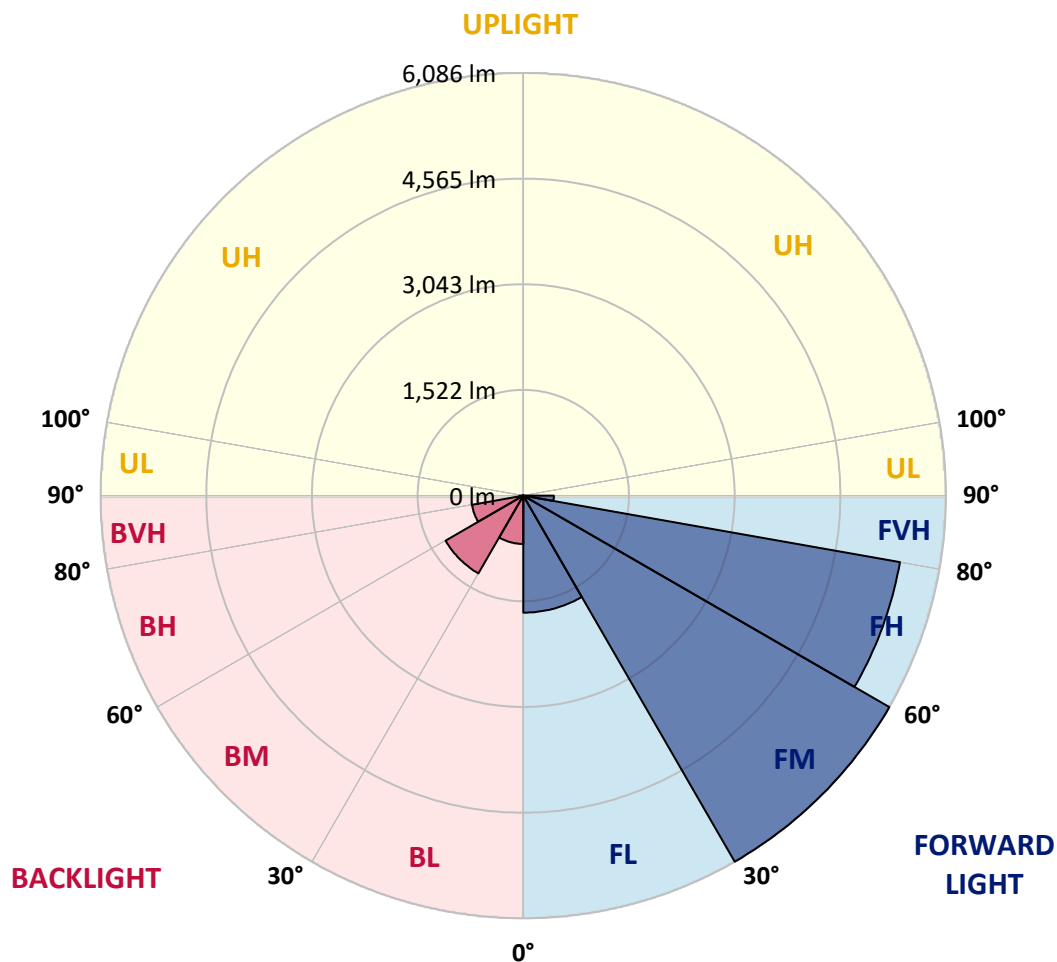
CATALOG NUMBER: GLAN-SA5A-727-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1685.1 | 10.2 | | | |
| FM | (30°-60°) | 6086.3 | 36.9 | | | |
| FH | (60°-80°) | 5507.5 | 33.4 | | | G3/7500 |
| FVH | (80°-90°) | 439.8 | 2.7 | | | G3/500 |
| BL | (0°-30°) | 696.0 | 4.2 | B2/1000 | | |
| BM | (30°-60°) | 1292.8 | 7.8 | B2/2500 | | |
| BH | (60°-80°) | 750.8 | 4.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 50.7 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Medium





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

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 |
| 2.5° | 5561.2 | 5568.6 | 5616.2 | 5754.9 | 5850.2 | 5885.1 | 5909.5 | 5863.9 | 5819.5 | 5711.5 | 5548.4 |
| 5° | 5544.2 | 5587.6 | 5711.5 | 6022.7 | 6268.3 | 6374.2 | 6406.0 | 6269.4 | 6043.9 | 5766.5 | 5433.1 |
| 7.5° | 5220.3 | 5278.5 | 5469.0 | 5991.0 | 6424.0 | 6671.7 | 6638.9 | 6392.2 | 5985.7 | 5491.3 | 5025.5 |
| 10° | 4836.0 | 4900.5 | 5130.3 | 5761.2 | 6319.2 | 6660.0 | 6660.0 | 6359.4 | 5819.5 | 5231.9 | 4695.2 |
| 12.5° | 4531.1 | 4598.8 | 4861.4 | 5525.2 | 6101.1 | 6424.0 | 6478.0 | 6219.6 | 5699.8 | 5067.8 | 4478.1 |
| 15° | 4430.5 | 4496.1 | 4778.8 | 5382.2 | 5870.3 | 6067.2 | 6085.2 | 6000.5 | 5641.6 | 5079.5 | 4468.6 |
| 17.5° | 4555.4 | 4640.1 | 4926.0 | 5424.6 | 5658.5 | 5670.2 | 5684.0 | 5750.7 | 5648.0 | 5292.3 | 4661.3 |
| 20° | 4916.4 | 5007.5 | 5306.0 | 5561.2 | 5473.3 | 5352.6 | 5360.0 | 5531.5 | 5723.1 | 5643.7 | 5121.8 |
| 22.5° | 5437.3 | 5516.7 | 5822.6 | 5801.5 | 5394.9 | 5146.2 | 5094.3 | 5333.5 | 5834.3 | 6082.0 | 5612.0 |
| 25° | 5999.4 | 6092.6 | 6444.1 | 6158.2 | 5417.2 | 5023.4 | 4990.5 | 5217.1 | 5949.7 | 6491.7 | 6178.4 |
| 27.5° | 6643.1 | 6734.2 | 7011.5 | 6518.2 | 5533.6 | 5013.8 | 4974.7 | 5206.5 | 6053.4 | 6870.7 | 6719.3 |
| 30° | 7121.6 | 7205.3 | 7393.7 | 6821.0 | 5676.5 | 5077.3 | 5028.6 | 5290.1 | 6142.4 | 7130.1 | 7246.5 |
| 32.5° | 7497.4 | 7584.3 | 7686.9 | 7009.4 | 5865.0 | 5192.7 | 5102.8 | 5442.6 | 6258.8 | 7328.1 | 7637.2 |
| 35° | 7889.2 | 7991.8 | 7984.4 | 7176.7 | 6040.7 | 5326.1 | 5238.3 | 5662.8 | 6442.0 | 7500.6 | 8132.6 |
| 37.5° | 8385.7 | 8427.0 | 8374.0 | 7327.0 | 6251.4 | 5566.4 | 5517.7 | 5989.9 | 6702.4 | 7709.2 | 8711.7 |
| 40° | 8889.6 | 8972.2 | 8700.1 | 7509.1 | 6507.6 | 6018.5 | 6013.2 | 6473.7 | 7011.5 | 7953.7 | 9272.8 |
| 42.5° | 9321.5 | 9391.4 | 9005.0 | 7667.9 | 6817.8 | 6570.1 | 6610.3 | 7122.7 | 7417.0 | 8237.5 | 9723.8 |
| 45° | 9646.5 | 9709.0 | 9286.6 | 7821.4 | 7226.4 | 7207.4 | 7444.5 | 7818.2 | 7928.3 | 8492.6 | 9988.5 |
| 47.5° | 9922.8 | 9983.2 | 9482.4 | 8054.3 | 7731.4 | 7968.6 | 8381.4 | 8543.4 | 8365.5 | 8638.7 | 10284.9 |
| 50° | 10155.7 | 10173.7 | 9616.9 | 8331.7 | 8358.1 | 8901.2 | 9301.4 | 9406.2 | 8797.5 | 8848.3 | 10542.2 |
| 52.5° | 10398.2 | 10374.9 | 9848.7 | 8681.0 | 9035.7 | 9786.3 | 10077.4 | 10186.4 | 9211.4 | 9106.6 | 10916.9 |
| 55° | 10941.3 | 10963.5 | 10368.5 | 9121.4 | 9720.6 | 10655.4 | 11038.7 | 10933.9 | 9669.8 | 9582.0 | 11393.3 |
| 57.5° | 11597.6 | 11578.6 | 11100.1 | 9810.6 | 10418.3 | 11464.3 | 11750.1 | 11581.8 | 10281.7 | 10235.1 | 11876.1 |
| 60° | 11852.8 | 11878.2 | 11712.0 | 10551.7 | 11106.4 | 12172.5 | 12464.7 | 12203.2 | 11015.4 | 10994.2 | 12240.3 |
| 62.5° | 11596.6 | 11739.5 | 11851.7 | 11211.2 | 11692.9 | 12693.4 | 12983.4 | 12684.9 | 11780.8 | 11934.3 | 12495.4 |
| 65° | 11086.3 | 11117.0 | 11499.2 | 11770.2 | 11975.6 | 12779.1 | 12930.5 | 12771.7 | 12420.2 | 12790.8 | 12483.7 |
| 67.5° | 10423.6 | 10450.1 | 10897.9 | 11953.4 | 11611.4 | 11805.1 | 11911.0 | 11864.4 | 12222.3 | 13084.0 | 11908.9 |
| 70° | 9792.6 | 9771.5 | 10244.7 | 11486.5 | 10108.1 | 9813.8 | 9901.7 | 9755.6 | 10546.4 | 12367.3 | 10781.4 |
| 72.5° | 8564.6 | 8640.8 | 9149.0 | 10188.6 | 8003.5 | 7525.0 | 7716.6 | 7338.6 | 8111.5 | 10591.9 | 8750.9 |
| 75° | 6708.7 | 6726.7 | 7574.7 | 8550.8 | 6037.6 | 5282.7 | 5542.1 | 5384.4 | 6213.3 | 8835.6 | 6042.8 |
| 77.5° | 4645.4 | 4605.2 | 5516.7 | 6530.9 | 4305.6 | 3867.3 | 3871.5 | 3796.4 | 4338.4 | 6505.5 | 4105.5 |
| 80° | 2950.5 | 2889.1 | 3453.4 | 4034.6 | 2959.0 | 3165.4 | 3061.7 | 3058.5 | 2824.5 | 4013.4 | 2482.6 |
| 82.5° | 1594.3 | 1662.1 | 2181.9 | 2529.1 | 2122.6 | 2446.6 | 2242.2 | 2176.6 | 1938.4 | 2512.2 | 1588.0 |
| 85° | 726.2 | 789.8 | 1163.5 | 1720.3 | 1612.3 | 1630.3 | 1089.4 | 1285.2 | 1603.9 | 2040.0 | 848.0 |
| 87.5° | 70.9 | 91.0 | 240.3 | 812.0 | 550.5 | 434.1 | 162.0 | 312.3 | 403.4 | 725.2 | 67.8 |
| 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-SA5A-727-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 |
| 2.5° | 5481.8 | 5426.7 | 5239.3 | 5084.8 | 4920.7 | 4795.7 | 4632.7 | 4523.7 | 4448.5 | 4335.2 | 4321.5 |
| 5° | 5229.8 | 5095.3 | 4769.3 | 4436.9 | 4150.0 | 3934.0 | 3714.8 | 3513.7 | 3395.1 | 3358.1 | 3310.4 |
| 7.5° | 4805.3 | 4578.7 | 4159.5 | 3778.4 | 3449.1 | 3127.3 | 2879.6 | 2703.8 | 2586.3 | 2517.5 | 2434.9 |
| 10° | 4455.9 | 4193.4 | 3683.1 | 3216.2 | 2945.2 | 2745.1 | 2527.0 | 2338.6 | 2193.5 | 2069.7 | 2001.9 |
| 12.5° | 4220.9 | 3924.5 | 3350.7 | 2971.7 | 2762.0 | 2549.3 | 2294.1 | 2082.4 | 1868.5 | 1727.7 | 1667.4 |
| 15° | 4150.0 | 3836.6 | 3248.0 | 2849.9 | 2549.3 | 2270.8 | 1985.0 | 1708.7 | 1496.9 | 1363.6 | 1319.1 |
| 17.5° | 4323.6 | 3944.6 | 3246.9 | 2687.9 | 2299.4 | 1967.0 | 1600.7 | 1341.3 | 1124.3 | 1024.8 | 993.0 |
| 20° | 4647.5 | 4152.1 | 3256.4 | 2528.1 | 2028.4 | 1560.5 | 1164.5 | 951.7 | 848.0 | 805.6 | 789.8 |
| 22.5° | 5099.6 | 4468.6 | 3285.0 | 2370.3 | 1732.0 | 1198.4 | 872.3 | 764.4 | 727.3 | 719.9 | 716.7 |
| 25° | 5656.4 | 4860.3 | 3381.4 | 2228.5 | 1482.1 | 914.7 | 729.4 | 680.7 | 659.5 | 652.1 | 651.1 |
| 27.5° | 6168.8 | 5366.4 | 3497.8 | 2106.7 | 1240.8 | 788.7 | 659.5 | 618.3 | 597.1 | 596.0 | 598.1 |
| 30° | 6631.5 | 5789.8 | 3595.2 | 1970.2 | 1057.6 | 700.8 | 614.0 | 572.7 | 552.6 | 551.6 | 557.9 |
| 32.5° | 7031.6 | 6138.1 | 3667.2 | 1835.7 | 956.0 | 646.8 | 572.7 | 528.3 | 511.3 | 508.2 | 511.3 |
| 35° | 7459.3 | 6485.4 | 3634.4 | 1730.9 | 897.7 | 602.4 | 542.0 | 498.6 | 478.5 | 469.0 | 469.0 |
| 37.5° | 7947.4 | 6843.2 | 3578.3 | 1644.1 | 871.3 | 565.3 | 515.6 | 473.2 | 453.1 | 443.6 | 442.5 |
| 40° | 8479.9 | 7201.0 | 3501.0 | 1566.8 | 844.8 | 543.1 | 497.6 | 453.1 | 428.8 | 419.2 | 417.1 |
| 42.5° | 8949.9 | 7507.0 | 3437.5 | 1516.0 | 801.4 | 547.3 | 481.7 | 438.3 | 407.6 | 394.9 | 393.8 |
| 45° | 9358.6 | 7815.0 | 3425.8 | 1486.4 | 765.4 | 541.0 | 477.5 | 426.6 | 390.6 | 376.9 | 374.8 |
| 47.5° | 9678.3 | 8135.8 | 3492.5 | 1469.4 | 726.2 | 507.1 | 505.0 | 419.2 | 375.8 | 361.0 | 358.9 |
| 50° | 10067.9 | 8591.0 | 3645.0 | 1434.5 | 690.2 | 475.3 | 533.6 | 418.2 | 364.2 | 345.1 | 339.8 |
| 52.5° | 10586.6 | 9183.9 | 3851.4 | 1372.0 | 638.4 | 445.7 | 509.2 | 418.2 | 350.4 | 331.4 | 325.0 |
| 55° | 11371.1 | 9939.8 | 4053.6 | 1284.2 | 565.3 | 406.5 | 459.5 | 405.5 | 330.3 | 313.4 | 309.1 |
| 57.5° | 11890.9 | 10492.4 | 4182.8 | 1162.4 | 474.3 | 377.9 | 395.9 | 385.4 | 310.2 | 292.2 | 292.2 |
| 60° | 11917.4 | 10640.6 | 4121.4 | 1008.9 | 417.1 | 351.5 | 344.1 | 388.5 | 292.2 | 273.1 | 271.0 |
| 62.5° | 11612.5 | 10277.5 | 3801.7 | 871.3 | 386.4 | 322.9 | 311.2 | 340.9 | 274.2 | 255.1 | 252.0 |
| 65° | 11136.1 | 9351.2 | 3246.9 | 805.6 | 369.5 | 297.5 | 280.5 | 279.5 | 255.1 | 237.1 | 232.9 |
| 67.5° | 10260.6 | 8171.8 | 2667.8 | 767.5 | 361.0 | 268.9 | 253.0 | 247.7 | 232.9 | 218.1 | 216.0 |
| 70° | 8970.0 | 6844.3 | 2139.6 | 751.7 | 356.8 | 239.3 | 226.6 | 220.2 | 207.5 | 195.9 | 194.8 |
| 72.5° | 6978.7 | 5551.6 | 1765.8 | 741.1 | 354.7 | 211.7 | 198.0 | 189.5 | 182.1 | 171.5 | 171.5 |
| 75° | 5012.8 | 4084.3 | 1347.7 | 668.0 | 328.2 | 182.1 | 167.3 | 162.0 | 151.4 | 142.9 | 145.0 |
| 77.5° | 3160.1 | 2750.4 | 887.2 | 491.2 | 254.1 | 146.1 | 133.4 | 130.2 | 121.7 | 110.1 | 117.5 |
| 80° | 2134.3 | 1934.2 | 517.7 | 309.1 | 159.9 | 106.9 | 102.7 | 101.6 | 92.1 | 79.4 | 80.5 |
| 82.5° | 1452.5 | 1425.0 | 268.9 | 175.7 | 92.1 | 62.5 | 60.3 | 62.5 | 51.9 | 42.3 | 42.3 |
| 85° | 567.4 | 774.9 | 127.0 | 68.8 | 29.6 | 9.5 | 13.8 | 14.8 | 8.5 | 4.2 | 5.3 |
| 87.5° | 10.6 | 79.4 | 3.2 | 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

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 |
| 2.5° | 4300.3 | 4290.8 | 4306.6 | 4238.9 | 4252.6 | 4278.1 | 4290.8 | 4298.2 | 4403.0 | 4378.6 | 4445.3 |
| 5° | 3354.9 | 3345.4 | 3406.8 | 3415.2 | 3447.0 | 3440.7 | 3471.4 | 3478.8 | 3516.9 | 3530.6 | 3623.8 |
| 7.5° | 2440.2 | 2481.5 | 2551.4 | 2587.4 | 2641.4 | 2658.3 | 2642.4 | 2681.6 | 2602.2 | 2659.4 | 2676.3 |
| 10° | 1960.6 | 1910.9 | 1881.2 | 1963.8 | 1974.4 | 2052.7 | 2021.0 | 1995.6 | 2042.2 | 2044.3 | 2088.7 |
| 12.5° | 1632.5 | 1525.5 | 1454.6 | 1477.9 | 1503.3 | 1537.2 | 1542.5 | 1593.3 | 1627.2 | 1658.9 | 1685.4 |
| 15° | 1279.9 | 1242.9 | 1178.3 | 1146.5 | 1182.5 | 1196.3 | 1229.1 | 1271.5 | 1307.4 | 1317.0 | 1353.0 |
| 17.5° | 982.4 | 988.8 | 978.2 | 959.1 | 981.4 | 992.0 | 994.1 | 995.1 | 1004.7 | 998.3 | 1051.3 |
| 20° | 790.8 | 813.1 | 839.5 | 843.8 | 851.2 | 856.5 | 846.9 | 810.9 | 812.0 | 834.2 | 851.2 |
| 22.5° | 715.7 | 719.9 | 749.5 | 759.1 | 782.4 | 772.8 | 745.3 | 728.4 | 726.2 | 731.5 | 740.0 |
| 25° | 656.4 | 662.7 | 683.9 | 698.7 | 716.7 | 699.8 | 679.7 | 663.8 | 661.7 | 667.0 | 675.4 |
| 27.5° | 603.4 | 613.0 | 632.0 | 646.8 | 663.8 | 647.9 | 628.8 | 615.1 | 614.0 | 613.0 | 618.3 |
| 30° | 561.1 | 571.7 | 585.4 | 602.4 | 614.0 | 600.3 | 582.3 | 574.9 | 573.8 | 571.7 | 573.8 |
| 32.5° | 518.7 | 535.7 | 549.4 | 557.9 | 569.6 | 559.0 | 545.2 | 541.0 | 533.6 | 527.2 | 524.0 |
| 35° | 471.1 | 489.1 | 510.3 | 520.9 | 532.5 | 521.9 | 512.4 | 494.4 | 481.7 | 480.6 | 482.7 |
| 37.5° | 443.6 | 451.0 | 467.9 | 485.9 | 497.6 | 492.3 | 474.3 | 456.3 | 453.1 | 453.1 | 455.2 |
| 40° | 419.2 | 422.4 | 429.8 | 453.1 | 474.3 | 458.4 | 436.2 | 430.9 | 430.9 | 429.8 | 430.9 |
| 42.5° | 394.9 | 398.1 | 398.1 | 416.1 | 449.9 | 424.5 | 407.6 | 407.6 | 407.6 | 408.6 | 411.8 |
| 45° | 372.6 | 373.7 | 372.6 | 385.4 | 417.1 | 395.9 | 384.3 | 387.5 | 389.6 | 391.7 | 393.8 |
| 47.5° | 353.6 | 354.7 | 353.6 | 364.2 | 380.1 | 371.6 | 365.2 | 369.5 | 373.7 | 376.9 | 379.0 |
| 50° | 336.7 | 335.6 | 337.7 | 344.1 | 351.5 | 353.6 | 349.4 | 355.7 | 357.8 | 362.1 | 367.4 |
| 52.5° | 321.8 | 320.8 | 322.9 | 326.1 | 336.7 | 336.7 | 336.7 | 341.9 | 346.2 | 350.4 | 357.8 |
| 55° | 304.9 | 306.0 | 309.1 | 313.4 | 327.1 | 325.0 | 326.1 | 330.3 | 334.5 | 340.9 | 345.1 |
| 57.5° | 289.0 | 291.1 | 295.4 | 301.7 | 315.5 | 314.4 | 315.5 | 317.6 | 322.9 | 326.1 | 330.3 |
| 60° | 271.0 | 275.3 | 280.5 | 284.8 | 298.5 | 297.5 | 302.8 | 307.0 | 310.2 | 310.2 | 312.3 |
| 62.5° | 253.0 | 259.4 | 264.7 | 267.8 | 282.7 | 283.7 | 291.1 | 294.3 | 296.4 | 294.3 | 297.5 |
| 65° | 235.0 | 244.6 | 246.7 | 250.9 | 265.7 | 266.8 | 275.3 | 282.7 | 280.5 | 278.4 | 283.7 |
| 67.5° | 217.0 | 228.7 | 227.6 | 232.9 | 247.7 | 249.8 | 257.3 | 270.0 | 265.7 | 263.6 | 267.8 |
| 70° | 196.9 | 205.4 | 206.4 | 209.6 | 229.7 | 226.6 | 238.2 | 249.8 | 246.7 | 247.7 | 247.7 |
| 72.5° | 174.7 | 182.1 | 182.1 | 188.4 | 209.6 | 204.3 | 213.8 | 226.6 | 226.6 | 225.5 | 225.5 |
| 75° | 148.2 | 152.4 | 156.7 | 166.2 | 188.4 | 182.1 | 188.4 | 200.1 | 202.2 | 200.1 | 200.1 |
| 77.5° | 119.6 | 126.0 | 128.1 | 140.8 | 156.7 | 155.6 | 162.0 | 167.3 | 171.5 | 169.4 | 169.4 |
| 80° | 84.7 | 91.0 | 99.5 | 113.3 | 122.8 | 126.0 | 129.2 | 133.4 | 135.5 | 135.5 | 137.6 |
| 82.5° | 47.6 | 57.2 | 64.6 | 78.3 | 82.6 | 98.5 | 97.4 | 100.6 | 97.4 | 85.8 | 95.3 |
| 85° | 10.6 | 20.1 | 28.6 | 36.0 | 41.3 | 57.2 | 60.3 | 67.8 | 56.1 | 51.9 | 51.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.5 | 16.9 | 23.3 | 20.1 | 16.9 | 16.9 |
| 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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| 32.5° | 534.6 | 568.5 | 616.1 | 712.5 | 1085.1 | 1916.2 | 3934.0 | 6665.3 | 7352.4 | 7497.4 |
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| 45° | 411.8 | 442.5 | 478.5 | 561.1 | 729.4 | 1428.1 | 3884.2 | 8449.2 | 9505.7 | 9646.5 |
| 47.5° | 398.1 | 431.9 | 483.8 | 542.0 | 715.7 | 1375.2 | 3860.9 | 8692.7 | 9790.5 | 9922.8 |
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| 60° | 336.7 | 434.1 | 397.0 | 390.6 | 537.8 | 1362.5 | 5252.0 | 11125.5 | 11798.8 | 11852.8 |
| 62.5° | 321.8 | 437.2 | 354.7 | 366.3 | 478.5 | 1301.1 | 5536.8 | 10804.7 | 11519.3 | 11596.6 |
| 65° | 304.9 | 352.5 | 327.1 | 340.9 | 447.8 | 1198.4 | 5446.8 | 10217.1 | 10994.2 | 11086.3 |
| 67.5° | 284.8 | 298.5 | 297.5 | 314.4 | 437.2 | 1047.0 | 4972.5 | 9474.0 | 10428.9 | 10423.6 |
| 70° | 260.4 | 267.8 | 271.0 | 289.0 | 417.1 | 929.5 | 4143.6 | 8509.5 | 9674.1 | 9792.6 |
| 72.5° | 235.0 | 241.4 | 244.6 | 260.4 | 397.0 | 862.8 | 3216.2 | 7180.9 | 8379.3 | 8564.6 |
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| 77.5° | 178.9 | 178.9 | 184.2 | 198.0 | 316.5 | 631.0 | 1537.2 | 3845.1 | 4347.9 | 4645.4 |
| 80° | 145.0 | 146.1 | 144.0 | 158.8 | 232.9 | 431.9 | 873.4 | 2568.3 | 2893.3 | 2950.5 |
| 82.5° | 111.2 | 108.0 | 109.0 | 116.5 | 173.6 | 294.3 | 465.8 | 1595.4 | 1626.1 | 1594.3 |
| 85° | 69.9 | 69.9 | 67.8 | 76.2 | 111.2 | 153.5 | 254.1 | 977.1 | 763.3 | 726.2 |
| 87.5° | 28.6 | 23.3 | 26.5 | 30.7 | 52.9 | 62.5 | 99.5 | 201.1 | 77.3 | 70.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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