

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: P529849

Luminaire Tested: **GLAN-SA5A-735-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5A-735-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11794 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

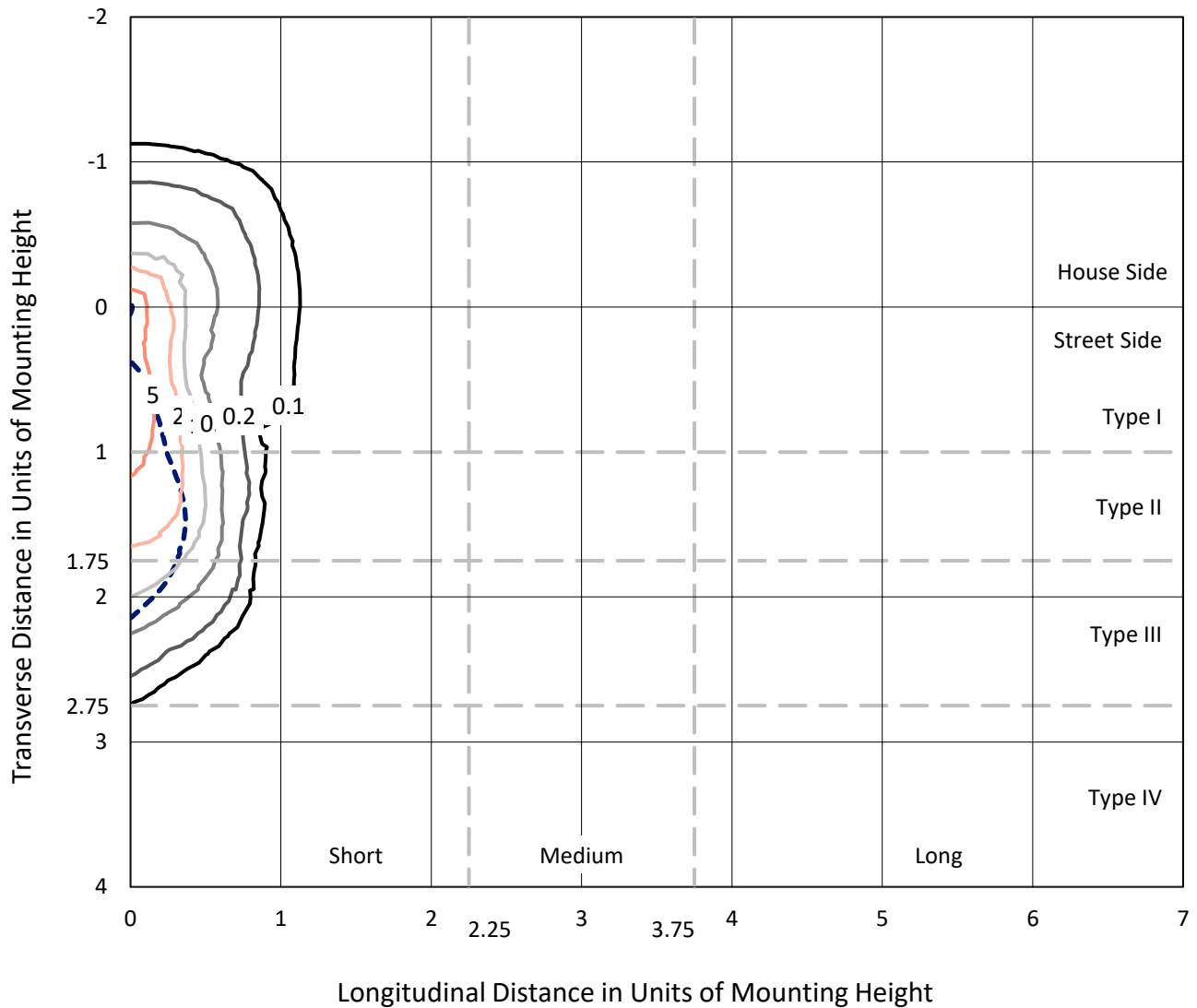
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529849
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Iso-Footcandle Lines of Horizontal Illumination

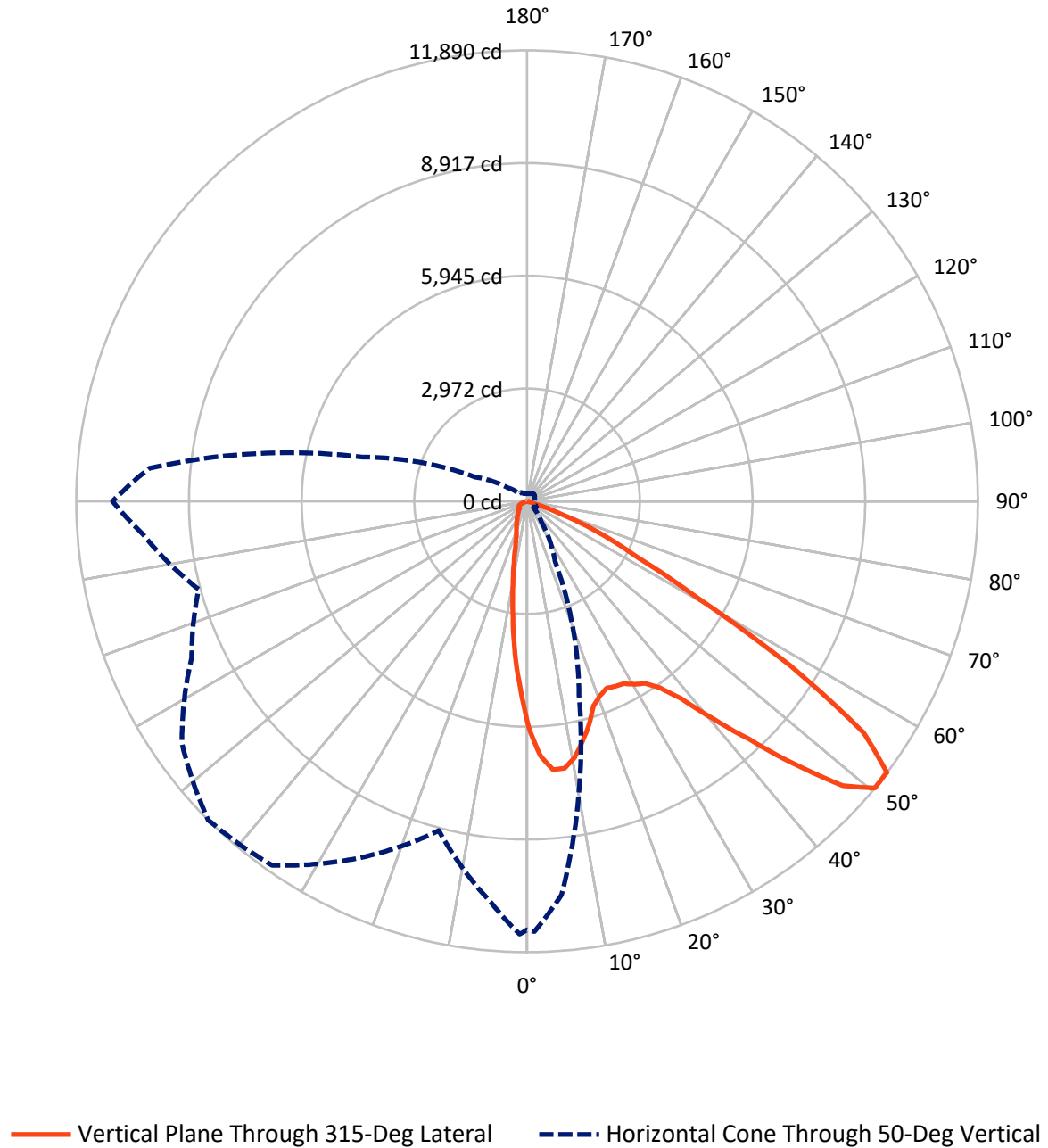
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2362.3 | 0.0 | 2362.3 |
| | % Fixture | 20.0 | 0.0 | 20.0 |
| Street Side | Lumens | 9431.7 | 0.0 | 9431.7 |
| | % Fixture | 80.0 | 0.0 | 80.0 |
| Total | Lumens | 11794.0 | 0.0 | 11794.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 436.0 | 3.7 |
| 10°-20° | 866.4 | 7.3 |
| 20°-30° | 1301.7 | 11.0 |
| 30°-40° | 1953.8 | 16.6 |
| 40°-50° | 2745.9 | 23.3 |
| 50°-60° | 2961.9 | 25.1 |
| 60°-70° | 1375.2 | 11.7 |
| 70°-80° | 129.4 | 1.1 |
| 80°-90° | 23.8 | 0.2 |
| 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° | 11794.0 | 100.0 |
| 0°-180° | 11794.0 | 100.0 |

Coefficient of Utilization



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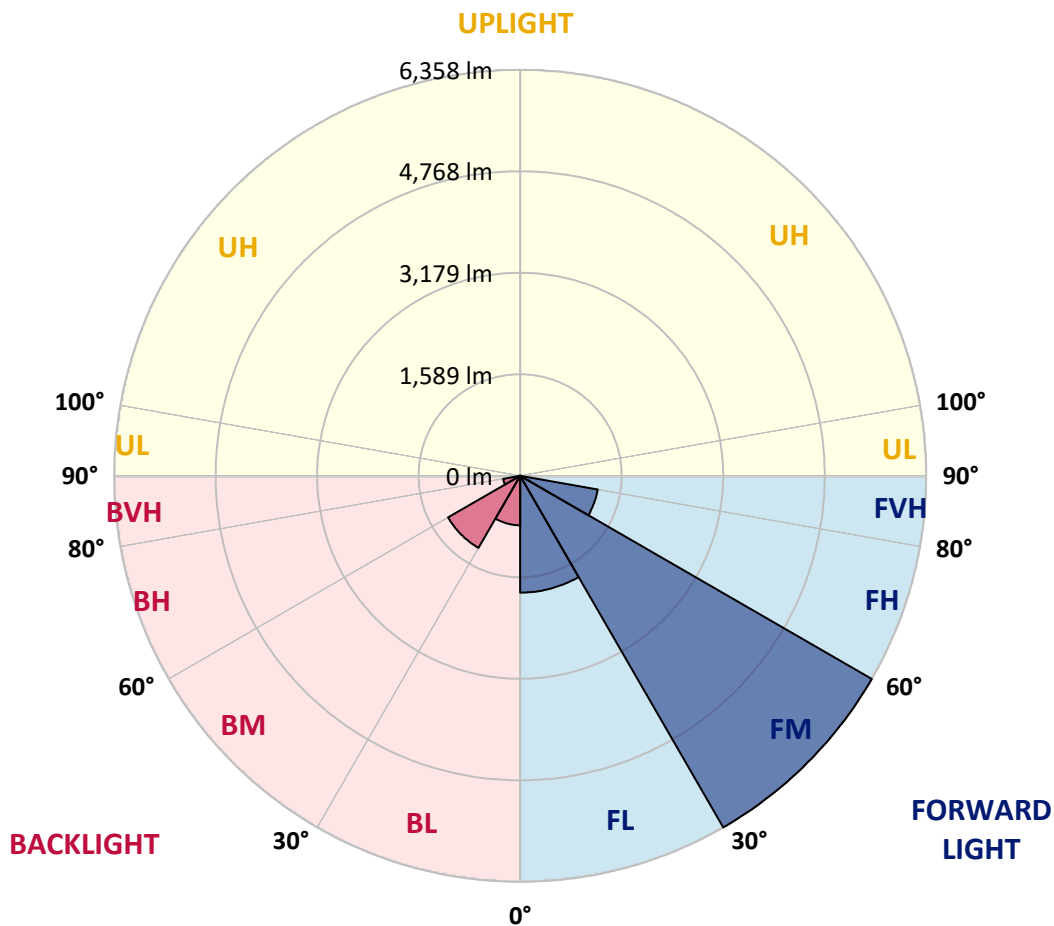
CATALOG NUMBER: GLAN-SA5A-735-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1829.7 | 15.5 | | | |
| FM (30°-60°) | 6357.8 | 53.9 | | | |
| FH (60°-80°) | 1233.3 | 10.5 | | | G1/1800 |
| FVH (80°-90°) | 10.7 | 0.1 | | | G1/100 |
| BL (0°-30°) | 774.3 | 6.6 | B2/1000 | | |
| BM (30°-60°) | 1303.7 | 11.1 | B2/2500 | | |
| BH (60°-80°) | 271.3 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 13.1 | 0.1 | | | G1/100 |
| 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





REPORT NUMBER: P529849

CATALOG NUMBER: GLAN-SA5A-735-U-SLR-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 |
| 2.5° | 6217.4 | 6121.4 | 5999.8 | 5899.1 | 5749.4 | 5447.5 | 5365.6 | 5267.3 | 5185.4 | 5075.5 | 4921.0 |
| 5° | 5653.4 | 5623.0 | 5566.9 | 5187.8 | 4914.0 | 4549.0 | 4249.4 | 4123.1 | 3956.9 | 3821.2 | 3722.9 |
| 7.5° | 5222.9 | 5101.2 | 4923.4 | 4541.9 | 4104.4 | 3713.6 | 3381.3 | 3187.1 | 2967.1 | 2892.2 | 2758.9 |
| 10° | 4761.9 | 4790.0 | 4527.9 | 3992.0 | 3463.2 | 3147.3 | 2941.4 | 2754.2 | 2555.3 | 2424.2 | 2234.7 |
| 12.5° | 4614.5 | 4523.2 | 4322.0 | 3659.8 | 3208.1 | 2913.3 | 2662.9 | 2431.3 | 2220.7 | 2010.1 | 1827.5 |
| 15° | 4710.4 | 4570.0 | 4289.2 | 3589.6 | 3011.6 | 2644.2 | 2330.6 | 2017.1 | 1822.9 | 1553.8 | 1364.2 |
| 17.5° | 5054.4 | 4942.1 | 4565.3 | 3664.4 | 2911.0 | 2386.8 | 1921.1 | 1598.2 | 1301.0 | 1057.7 | 961.7 |
| 20° | 5627.7 | 5468.6 | 4995.9 | 3760.4 | 2761.2 | 2075.6 | 1558.4 | 1160.6 | 879.8 | 776.9 | 723.1 |
| 22.5° | 6189.3 | 6102.7 | 5506.0 | 3945.2 | 2627.8 | 1799.5 | 1170.0 | 781.6 | 657.5 | 638.8 | 603.7 |
| 25° | 7258.7 | 6998.9 | 6285.2 | 4279.9 | 2524.9 | 1539.7 | 882.2 | 629.5 | 556.9 | 542.9 | 547.6 |
| 27.5° | 7895.2 | 7677.5 | 7006.0 | 4502.2 | 2410.2 | 1340.8 | 746.5 | 578.0 | 528.8 | 498.4 | 486.7 |
| 30° | 8505.9 | 8253.2 | 7364.0 | 4633.2 | 2164.5 | 1130.2 | 662.2 | 554.6 | 542.9 | 498.4 | 484.4 |
| 32.5° | 8976.2 | 8728.2 | 7881.1 | 4829.8 | 2063.9 | 994.5 | 545.2 | 432.9 | 402.5 | 397.8 | 439.9 |
| 35° | 9697.0 | 9432.5 | 8323.4 | 4937.4 | 1986.7 | 924.3 | 472.7 | 386.1 | 351.0 | 337.0 | 339.3 |
| 37.5° | 10368.5 | 10188.4 | 8732.9 | 4979.5 | 1904.8 | 903.2 | 423.5 | 346.3 | 315.9 | 306.5 | 304.2 |
| 40° | 10930.1 | 10527.7 | 9121.3 | 5024.0 | 1869.7 | 863.5 | 393.1 | 315.9 | 294.8 | 280.8 | 280.8 |
| 42.5° | 11187.5 | 10778.0 | 9556.6 | 4998.2 | 1860.3 | 800.3 | 393.1 | 290.2 | 273.8 | 259.7 | 257.4 |
| 45° | 11131.4 | 10965.2 | 9750.8 | 4986.5 | 1860.3 | 737.1 | 358.0 | 283.1 | 259.7 | 241.0 | 236.3 |
| 47.5° | 11276.5 | 11058.8 | 9994.1 | 5035.7 | 1822.9 | 692.6 | 301.9 | 297.2 | 245.7 | 222.3 | 217.6 |
| 50° | 11302.2 | 11344.3 | 10417.7 | 5290.7 | 1741.0 | 636.5 | 236.3 | 292.5 | 236.3 | 201.2 | 196.6 |
| 52° | 11470.7 | 11208.6 | 10546.4 | 5426.5 | 1654.4 | 594.4 | 198.9 | 250.4 | 227.0 | 187.2 | 182.5 |
| 52.5° | 11239.0 | 11409.8 | 10576.8 | 5475.6 | 1663.7 | 566.3 | 191.9 | 245.7 | 222.3 | 187.2 | 175.5 |
| 55° | 10979.3 | 11143.1 | 10452.8 | 5580.9 | 1525.7 | 444.6 | 149.8 | 177.8 | 201.2 | 163.8 | 156.8 |
| 57.5° | 9542.5 | 9708.7 | 9083.9 | 5110.6 | 1242.5 | 313.6 | 124.0 | 133.4 | 177.8 | 152.1 | 145.1 |
| 60° | 8482.5 | 8363.2 | 7623.7 | 4263.5 | 882.2 | 175.5 | 98.3 | 103.0 | 194.2 | 140.4 | 138.1 |
| 62.5° | 7752.4 | 7497.4 | 6371.8 | 3292.4 | 538.2 | 117.0 | 77.2 | 79.6 | 149.8 | 131.0 | 131.0 |
| 65° | 5735.3 | 5449.9 | 4233.1 | 1991.3 | 264.4 | 81.9 | 58.5 | 63.2 | 93.6 | 112.3 | 112.3 |
| 67.5° | 3273.7 | 3163.7 | 2045.2 | 898.6 | 110.0 | 51.5 | 44.5 | 49.1 | 72.5 | 91.3 | 86.6 |
| 70° | 1504.6 | 1350.2 | 786.2 | 189.5 | 51.5 | 35.1 | 35.1 | 39.8 | 58.5 | 67.9 | 63.2 |
| 72.5° | 439.9 | 416.5 | 191.9 | 30.4 | 21.1 | 21.1 | 23.4 | 30.4 | 44.5 | 51.5 | 46.8 |
| 75° | 32.8 | 21.1 | 14.0 | 9.4 | 9.4 | 14.0 | 18.7 | 30.4 | 44.5 | 49.1 | 39.8 |
| 77.5° | 2.3 | 4.7 | 2.3 | 2.3 | 7.0 | 14.0 | 21.1 | 37.4 | 58.5 | 60.8 | 44.5 |
| 80° | 2.3 | 2.3 | 0.0 | 2.3 | 7.0 | 14.0 | 23.4 | 42.1 | 65.5 | 70.2 | 37.4 |
| 82.5° | 0.0 | 0.0 | 0.0 | 2.3 | 9.4 | 18.7 | 28.1 | 44.5 | 60.8 | 74.9 | 39.8 |
| 85° | 0.0 | 0.0 | 0.0 | 2.3 | 14.0 | 25.7 | 32.8 | 11.7 | 7.0 | 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-735-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 |
| 2.5° | 5031.0 | 4970.2 | 4946.8 | 4967.8 | 4960.8 | 4953.8 | 5082.5 | 5054.4 | 5049.7 | 5091.8 | 5082.5 |
| 5° | 3776.8 | 3669.1 | 3964.0 | 3844.6 | 3968.6 | 4043.5 | 4057.6 | 4064.6 | 4151.2 | 4059.9 | 4179.2 |
| 7.5° | 2691.0 | 2719.1 | 2716.7 | 2796.3 | 2939.0 | 3065.4 | 3140.3 | 3081.8 | 3077.1 | 3065.4 | 3013.9 |
| 10° | 2150.5 | 2101.3 | 2092.0 | 2073.2 | 2117.7 | 2225.3 | 2316.6 | 2244.1 | 2192.6 | 2262.8 | 2241.7 |
| 12.5° | 1757.3 | 1689.5 | 1652.0 | 1577.2 | 1579.5 | 1652.0 | 1652.0 | 1652.0 | 1703.5 | 1743.3 | 1773.7 |
| 15° | 1347.8 | 1291.7 | 1291.7 | 1216.8 | 1200.4 | 1202.8 | 1240.2 | 1244.9 | 1326.8 | 1350.2 | 1361.9 |
| 17.5° | 943.0 | 912.6 | 947.7 | 978.1 | 959.4 | 964.1 | 978.1 | 982.8 | 994.5 | 985.1 | 1008.5 |
| 20° | 725.4 | 720.7 | 730.1 | 783.9 | 823.7 | 847.1 | 830.7 | 807.3 | 793.3 | 760.5 | 760.5 |
| 22.5° | 615.4 | 624.8 | 641.2 | 685.6 | 737.1 | 751.1 | 732.4 | 678.6 | 636.5 | 631.8 | 634.1 |
| 25° | 547.6 | 556.9 | 582.7 | 610.7 | 638.8 | 662.2 | 643.5 | 603.7 | 580.3 | 559.3 | 559.3 |
| 27.5° | 505.4 | 510.1 | 524.2 | 545.2 | 568.6 | 587.3 | 580.3 | 559.3 | 533.5 | 524.2 | 503.1 |
| 30° | 472.7 | 479.7 | 496.1 | 500.8 | 521.8 | 531.2 | 519.5 | 514.8 | 498.4 | 486.7 | 479.7 |
| 32.5° | 456.3 | 454.0 | 465.7 | 470.3 | 472.7 | 479.7 | 465.7 | 472.7 | 470.3 | 451.6 | 444.6 |
| 35° | 344.0 | 362.7 | 393.1 | 418.9 | 425.9 | 435.2 | 432.9 | 423.5 | 397.8 | 376.7 | 351.0 |
| 37.5° | 308.9 | 320.6 | 337.0 | 358.0 | 386.1 | 397.8 | 393.1 | 369.7 | 339.3 | 325.3 | 320.6 |
| 40° | 285.5 | 292.5 | 306.5 | 320.6 | 348.7 | 369.7 | 353.3 | 332.3 | 308.9 | 297.2 | 290.2 |
| 42.5° | 264.4 | 266.8 | 273.8 | 287.8 | 308.9 | 341.6 | 313.6 | 285.5 | 276.1 | 269.1 | 264.4 |
| 45° | 241.0 | 241.0 | 250.4 | 257.4 | 280.8 | 311.2 | 283.1 | 257.4 | 252.7 | 248.0 | 245.7 |
| 47.5° | 222.3 | 224.6 | 229.3 | 238.7 | 257.4 | 278.5 | 259.7 | 238.7 | 227.0 | 224.6 | 220.0 |
| 50° | 198.9 | 201.2 | 210.6 | 220.0 | 243.4 | 255.1 | 243.4 | 220.0 | 208.3 | 201.2 | 201.2 |
| 52° | 180.2 | 187.2 | 196.6 | 215.3 | 231.7 | 250.4 | 236.3 | 210.6 | 196.6 | 189.5 | 184.9 |
| 52.5° | 177.8 | 182.5 | 191.9 | 212.9 | 231.7 | 248.0 | 234.0 | 208.3 | 191.9 | 187.2 | 182.5 |
| 55° | 159.1 | 166.1 | 182.5 | 208.3 | 229.3 | 248.0 | 229.3 | 205.9 | 182.5 | 170.8 | 166.1 |
| 57.5° | 152.1 | 156.8 | 177.8 | 210.6 | 227.0 | 248.0 | 229.3 | 205.9 | 182.5 | 161.5 | 156.8 |
| 60° | 145.1 | 154.4 | 177.8 | 203.6 | 224.6 | 250.4 | 231.7 | 203.6 | 177.8 | 152.1 | 152.1 |
| 62.5° | 138.1 | 145.1 | 175.5 | 198.9 | 215.3 | 241.0 | 222.3 | 198.9 | 170.8 | 145.1 | 142.7 |
| 65° | 119.3 | 131.0 | 154.4 | 166.1 | 184.9 | 208.3 | 189.5 | 173.2 | 149.8 | 128.7 | 126.4 |
| 67.5° | 91.3 | 95.9 | 114.7 | 128.7 | 140.4 | 161.5 | 152.1 | 131.0 | 114.7 | 98.3 | 98.3 |
| 70° | 63.2 | 67.9 | 81.9 | 88.9 | 100.6 | 112.3 | 105.3 | 88.9 | 77.2 | 67.9 | 65.5 |
| 72.5° | 44.5 | 46.8 | 51.5 | 56.2 | 60.8 | 65.5 | 63.2 | 51.5 | 44.5 | 42.1 | 39.8 |
| 75° | 35.1 | 39.8 | 42.1 | 39.8 | 37.4 | 35.1 | 35.1 | 30.4 | 25.7 | 23.4 | 23.4 |
| 77.5° | 35.1 | 37.4 | 35.1 | 30.4 | 25.7 | 23.4 | 21.1 | 18.7 | 14.0 | 11.7 | 14.0 |
| 80° | 30.4 | 30.4 | 30.4 | 25.7 | 23.4 | 21.1 | 18.7 | 16.4 | 14.0 | 11.7 | 11.7 |
| 82.5° | 32.8 | 32.8 | 30.4 | 25.7 | 25.7 | 21.1 | 21.1 | 18.7 | 16.4 | 11.7 | 11.7 |
| 85° | 0.0 | 0.0 | 0.0 | 4.7 | 11.7 | 21.1 | 21.1 | 18.7 | 16.4 | 14.0 | 14.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 4.7 | 9.4 | 11.7 | 14.0 | 14.0 | 14.0 |
| 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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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 |
| 2.5° | 5166.7 | 5255.6 | 5424.1 | 5592.6 | 5695.6 | 5817.2 | 6037.2 | 6154.2 | 6306.3 | 6381.2 | 6528.6 |
| 5° | 4162.9 | 4373.5 | 4448.3 | 4640.2 | 4846.1 | 5052.1 | 5379.7 | 5740.0 | 6039.5 | 6245.5 | 6512.2 |
| 7.5° | 3037.3 | 3086.5 | 3376.6 | 3505.3 | 3842.3 | 4216.7 | 4663.6 | 5117.6 | 5496.7 | 5833.6 | 6037.2 |
| 10° | 2276.8 | 2457.0 | 2639.5 | 2885.2 | 3156.7 | 3542.8 | 3971.0 | 4471.7 | 4963.1 | 5300.1 | 5557.5 |
| 12.5° | 1829.9 | 1972.6 | 2216.0 | 2480.4 | 2815.0 | 3070.1 | 3500.6 | 3996.7 | 4633.2 | 4963.1 | 5302.4 |
| 15° | 1385.3 | 1567.8 | 1843.9 | 2117.7 | 2471.0 | 2740.1 | 3175.4 | 3800.2 | 4619.2 | 5073.1 | 5365.6 |
| 17.5° | 1027.3 | 1151.3 | 1399.3 | 1705.9 | 2066.2 | 2445.3 | 3032.6 | 3779.1 | 4775.9 | 5316.5 | 5618.3 |
| 20° | 786.2 | 828.4 | 985.1 | 1258.9 | 1649.7 | 2145.8 | 2801.0 | 3870.4 | 5239.3 | 5908.5 | 6215.0 |
| 22.5° | 636.5 | 655.2 | 716.0 | 905.6 | 1284.7 | 1883.7 | 2691.0 | 3933.5 | 5761.1 | 6617.5 | 7027.0 |
| 25° | 554.6 | 549.9 | 589.7 | 671.6 | 1003.9 | 1638.0 | 2550.6 | 4172.2 | 6399.9 | 7450.6 | 7817.9 |
| 27.5° | 505.4 | 505.4 | 524.2 | 582.7 | 833.0 | 1478.9 | 2461.7 | 4343.0 | 7043.4 | 8183.0 | 8381.9 |
| 30° | 479.7 | 484.4 | 538.2 | 556.9 | 692.6 | 1289.3 | 2314.3 | 4516.2 | 7658.8 | 8651.0 | 8924.8 |
| 32.5° | 444.6 | 425.9 | 414.2 | 461.0 | 582.7 | 1118.5 | 2166.8 | 4588.7 | 8157.2 | 9224.3 | 9458.3 |
| 35° | 341.6 | 332.3 | 346.3 | 381.4 | 500.8 | 973.4 | 2003.0 | 4670.6 | 8730.5 | 9888.8 | 9935.6 |
| 37.5° | 308.9 | 306.5 | 315.9 | 346.3 | 421.2 | 847.1 | 1886.0 | 4649.6 | 9168.1 | 10438.7 | 10312.4 |
| 40° | 285.5 | 285.5 | 292.5 | 318.2 | 376.7 | 758.2 | 1764.4 | 4630.9 | 9591.7 | 11056.5 | 10686.8 |
| 42.5° | 266.8 | 266.8 | 278.5 | 294.8 | 358.0 | 699.7 | 1673.1 | 4605.1 | 9947.3 | 11435.6 | 10906.7 |
| 45° | 241.0 | 248.0 | 266.8 | 283.1 | 362.7 | 659.9 | 1605.2 | 4506.8 | 10069.0 | 11430.9 | 10801.4 |
| 47.5° | 222.3 | 231.7 | 250.4 | 273.8 | 327.6 | 648.2 | 1558.4 | 4420.3 | 10026.9 | 11150.1 | 10471.5 |
| 50° | 201.2 | 212.9 | 238.7 | 278.5 | 278.5 | 624.8 | 1509.3 | 4497.5 | 9996.5 | 10932.5 | 10155.6 |
| 52° | 187.2 | 196.6 | 229.3 | 271.4 | 243.4 | 575.6 | 1478.9 | 4647.2 | 10120.5 | 10904.4 | 10015.2 |
| 52.5° | 184.9 | 191.9 | 222.3 | 266.8 | 231.7 | 566.3 | 1457.8 | 4682.3 | 10160.3 | 10834.2 | 10111.1 |
| 55° | 163.8 | 173.2 | 203.6 | 208.3 | 189.5 | 465.7 | 1390.0 | 4761.9 | 9963.7 | 10696.1 | 10019.9 |
| 57.5° | 154.4 | 159.1 | 180.2 | 170.8 | 163.8 | 351.0 | 1195.7 | 4637.9 | 8849.9 | 9500.4 | 9322.6 |
| 60° | 142.7 | 147.4 | 168.5 | 133.4 | 138.1 | 245.7 | 898.6 | 4027.1 | 7106.6 | 7916.2 | 8236.8 |
| 62.5° | 138.1 | 135.7 | 159.1 | 107.6 | 117.0 | 177.8 | 634.1 | 3273.7 | 5475.6 | 6516.9 | 7071.5 |
| 65° | 121.7 | 119.3 | 114.7 | 91.3 | 100.6 | 138.1 | 379.1 | 2136.4 | 3858.7 | 4930.4 | 5234.6 |
| 67.5° | 93.6 | 98.3 | 84.2 | 72.5 | 84.2 | 107.6 | 210.6 | 957.1 | 2024.1 | 2957.8 | 3203.5 |
| 70° | 65.5 | 70.2 | 67.9 | 63.2 | 74.9 | 88.9 | 121.7 | 327.6 | 837.7 | 1553.8 | 1712.9 |
| 72.5° | 39.8 | 49.1 | 51.5 | 53.8 | 65.5 | 77.2 | 86.6 | 105.3 | 222.3 | 549.9 | 683.3 |
| 75° | 23.4 | 32.8 | 39.8 | 46.8 | 53.8 | 65.5 | 72.5 | 74.9 | 77.2 | 103.0 | 166.1 |
| 77.5° | 16.4 | 23.4 | 35.1 | 44.5 | 53.8 | 65.5 | 77.2 | 81.9 | 77.2 | 72.5 | 77.2 |
| 80° | 14.0 | 23.4 | 32.8 | 42.1 | 56.2 | 67.9 | 77.2 | 77.2 | 74.9 | 65.5 | 70.2 |
| 82.5° | 14.0 | 23.4 | 35.1 | 44.5 | 53.8 | 65.5 | 74.9 | 77.2 | 70.2 | 65.5 | 67.9 |
| 85° | 16.4 | 25.7 | 37.4 | 46.8 | 58.5 | 53.8 | 49.1 | 39.8 | 37.4 | 30.4 | 32.8 |
| 87.5° | 16.4 | 23.4 | 23.4 | 25.7 | 28.1 | 28.1 | 28.1 | 25.7 | 21.1 | 18.7 | 18.7 |
| 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° | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 | 5981.0 |
| 2.5° | 6535.6 | 6722.8 | 6715.8 | 6720.5 | 6692.4 | 6502.9 | 6411.6 | 6179.9 | 6245.5 | 6217.4 |
| 5° | 6786.0 | 6970.9 | 7130.0 | 7111.3 | 6896.0 | 6638.6 | 6257.2 | 5896.8 | 5798.5 | 5653.4 |
| 7.5° | 6535.6 | 6980.2 | 7127.6 | 7106.6 | 6788.3 | 6458.4 | 5850.0 | 5489.6 | 5318.8 | 5222.9 |
| 10° | 6137.8 | 6652.6 | 6835.1 | 6872.6 | 6657.3 | 6156.5 | 5597.3 | 5019.3 | 4928.0 | 4761.9 |
| 12.5° | 5910.8 | 6285.2 | 6397.6 | 6498.2 | 6423.3 | 6048.9 | 5405.4 | 4850.8 | 4724.5 | 4614.5 |
| 15° | 5726.0 | 5948.3 | 5995.1 | 6109.7 | 6154.2 | 5953.0 | 5506.0 | 5033.3 | 4722.1 | 4710.4 |
| 17.5° | 5896.8 | 5805.5 | 5634.7 | 5669.8 | 5810.2 | 5955.3 | 5765.8 | 5393.7 | 5091.8 | 5054.4 |
| 20° | 6179.9 | 5777.5 | 5391.4 | 5477.9 | 5594.9 | 6039.5 | 6158.9 | 5896.8 | 5723.6 | 5627.7 |
| 22.5° | 6505.2 | 5826.6 | 5314.1 | 5356.3 | 5578.6 | 6229.1 | 6795.4 | 6650.3 | 6327.4 | 6189.3 |
| 25° | 7106.6 | 5962.3 | 5375.0 | 5403.1 | 5707.3 | 6493.5 | 7371.0 | 7478.6 | 7286.8 | 7258.7 |
| 27.5° | 7693.9 | 6313.3 | 5508.4 | 5445.2 | 5772.8 | 6750.9 | 7719.7 | 8297.6 | 7960.7 | 7895.2 |
| 30° | 7993.4 | 6598.8 | 5707.3 | 5599.6 | 6044.2 | 6907.7 | 7930.3 | 8831.2 | 8536.3 | 8505.9 |
| 32.5° | 8452.1 | 6858.5 | 5861.7 | 5723.6 | 6196.3 | 7101.9 | 8323.4 | 9413.8 | 9128.3 | 8976.2 |
| 35° | 8644.0 | 7141.7 | 6201.0 | 6039.5 | 6631.6 | 7373.3 | 8524.6 | 9933.3 | 9844.4 | 9697.0 |
| 37.5° | 9013.7 | 7445.9 | 6601.1 | 6591.8 | 7158.1 | 7726.7 | 8887.3 | 10640.0 | 10623.6 | 10368.5 |
| 40° | 9044.1 | 7778.2 | 7232.9 | 7527.8 | 7972.4 | 8342.1 | 9205.6 | 10836.5 | 11103.3 | 10930.1 |
| 42.5° | 9090.9 | 8360.8 | 8325.7 | 8569.1 | 8950.5 | 8870.9 | 9217.3 | 10883.3 | 11290.5 | 11187.5 |
| 45° | 9112.0 | 8943.5 | 9437.2 | 9886.5 | 10045.6 | 9563.6 | 9107.3 | 10794.4 | 11388.8 | 11131.4 |
| 47.5° | 8943.5 | 9444.2 | 10335.8 | 11203.9 | 11250.7 | 9989.5 | 9060.5 | 10703.2 | 11447.3 | 11276.5 |
| 50° | 8966.9 | 9757.8 | 11112.7 | 11889.5 | 11718.7 | 10366.2 | 8987.9 | 10647.0 | 11416.9 | 11302.2 |
| 52° | 8910.7 | 9764.8 | 11222.6 | 11875.5 | 11756.2 | 10157.9 | 8863.9 | 10431.7 | 11388.8 | 11470.7 |
| 52.5° | 8973.9 | 9722.7 | 11108.0 | 11884.9 | 11730.4 | 10260.9 | 8847.5 | 10551.1 | 11405.2 | 11239.0 |
| 55° | 8756.3 | 9221.9 | 10436.4 | 10766.3 | 10742.9 | 9313.2 | 8344.4 | 10155.6 | 10976.9 | 10979.3 |
| 57.5° | 7913.9 | 7993.4 | 8185.3 | 8178.3 | 8070.7 | 7321.9 | 7137.0 | 9338.9 | 9785.9 | 9542.5 |
| 60° | 6973.2 | 5852.3 | 5335.2 | 5124.6 | 5005.3 | 4883.6 | 6313.3 | 8543.3 | 8585.5 | 8482.5 |
| 62.5° | 6025.5 | 4057.6 | 3369.6 | 3311.1 | 3339.2 | 3783.8 | 6102.7 | 8227.4 | 7974.7 | 7752.4 |
| 65° | 4862.5 | 2957.8 | 2447.6 | 2370.4 | 2644.2 | 3123.9 | 4939.7 | 6308.6 | 5920.2 | 5735.3 |
| 67.5° | 3053.7 | 2157.5 | 1654.4 | 1509.3 | 1839.2 | 2150.5 | 3245.6 | 3964.0 | 3528.7 | 3273.7 |
| 70° | 1811.2 | 1205.1 | 748.8 | 671.6 | 755.8 | 1146.6 | 1818.2 | 1977.3 | 1635.7 | 1504.6 |
| 72.5° | 713.7 | 442.3 | 208.3 | 177.8 | 184.9 | 402.5 | 669.2 | 652.9 | 493.7 | 439.9 |
| 75° | 191.9 | 133.4 | 72.5 | 58.5 | 49.1 | 74.9 | 107.6 | 70.2 | 25.7 | 32.8 |
| 77.5° | 88.9 | 79.6 | 63.2 | 49.1 | 37.4 | 28.1 | 14.0 | 4.7 | 4.7 | 2.3 |
| 80° | 77.2 | 67.9 | 58.5 | 49.1 | 37.4 | 23.4 | 11.7 | 2.3 | 2.3 | 2.3 |
| 82.5° | 72.5 | 63.2 | 53.8 | 44.5 | 35.1 | 23.4 | 11.7 | 2.3 | 0.0 | 0.0 |
| 85° | 30.4 | 39.8 | 44.5 | 42.1 | 37.4 | 23.4 | 11.7 | 2.3 | 0.0 | 0.0 |
| 87.5° | 16.4 | 14.0 | 11.7 | 9.4 | 7.0 | 4.7 | 4.7 | 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 OF REPORT)