

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: P459073

Luminaire Tested: **GLAN-SA5D-735-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5D-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35770 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

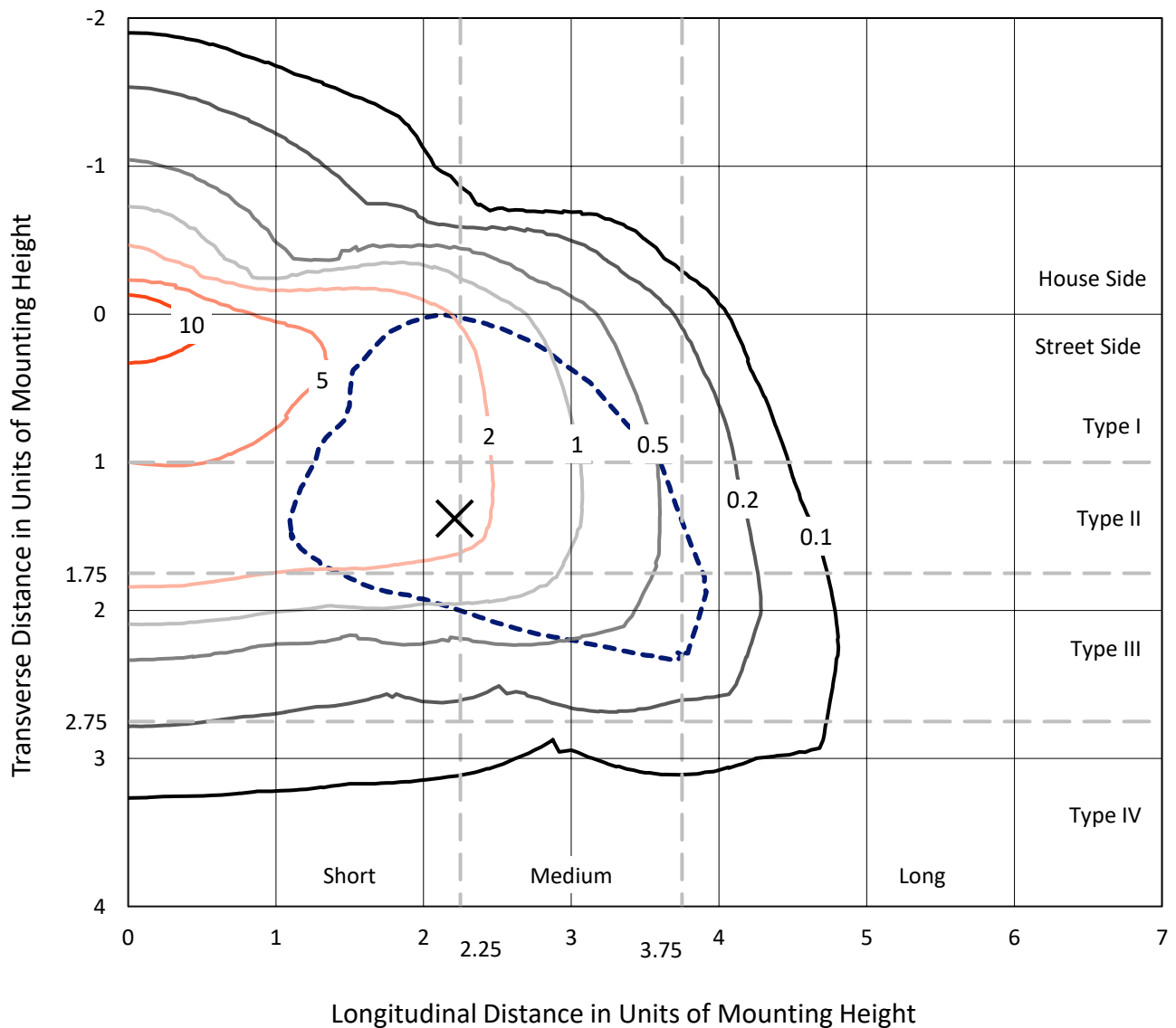
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

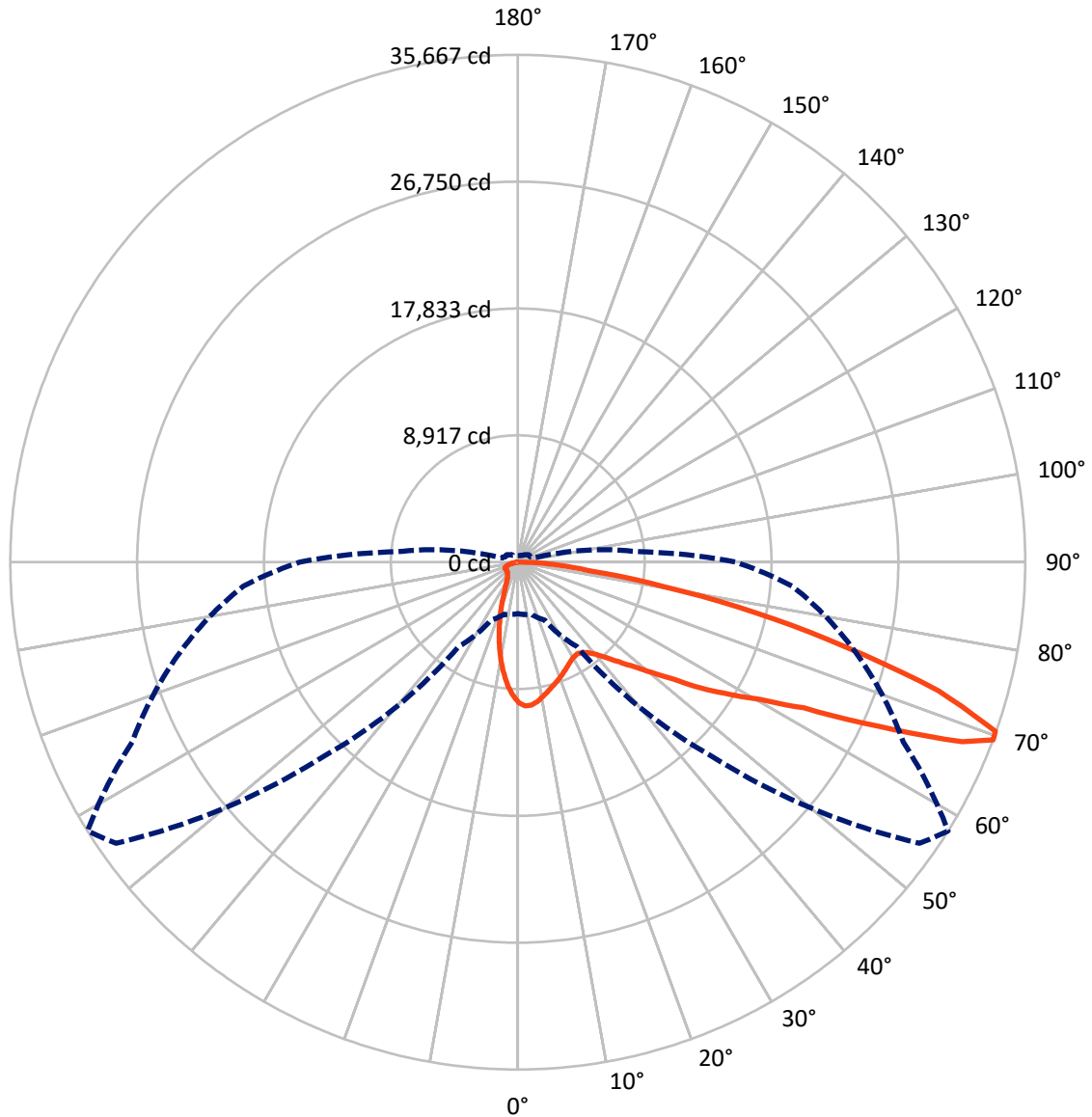
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5242.1 | 0.0 | 5242.1 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 30527.9 | 0.0 | 30527.9 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 35770.0 | 0.0 | 35770.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 839.4 | 2.3 |
| 10°-20° | 1843.3 | 5.2 |
| 20°-30° | 2381.6 | 6.7 |
| 30°-40° | 3093.2 | 8.6 |
| 40°-50° | 4497.0 | 12.6 |
| 50°-60° | 7175.8 | 20.1 |
| 60°-70° | 9586.0 | 26.8 |
| 70°-80° | 5525.9 | 15.4 |
| 80°-90° | 827.7 | 2.3 |
| 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° | 35770.0 | 100.0 |
| 0°-180° | 35770.0 | 100.0 |

Coefficient of Utilization



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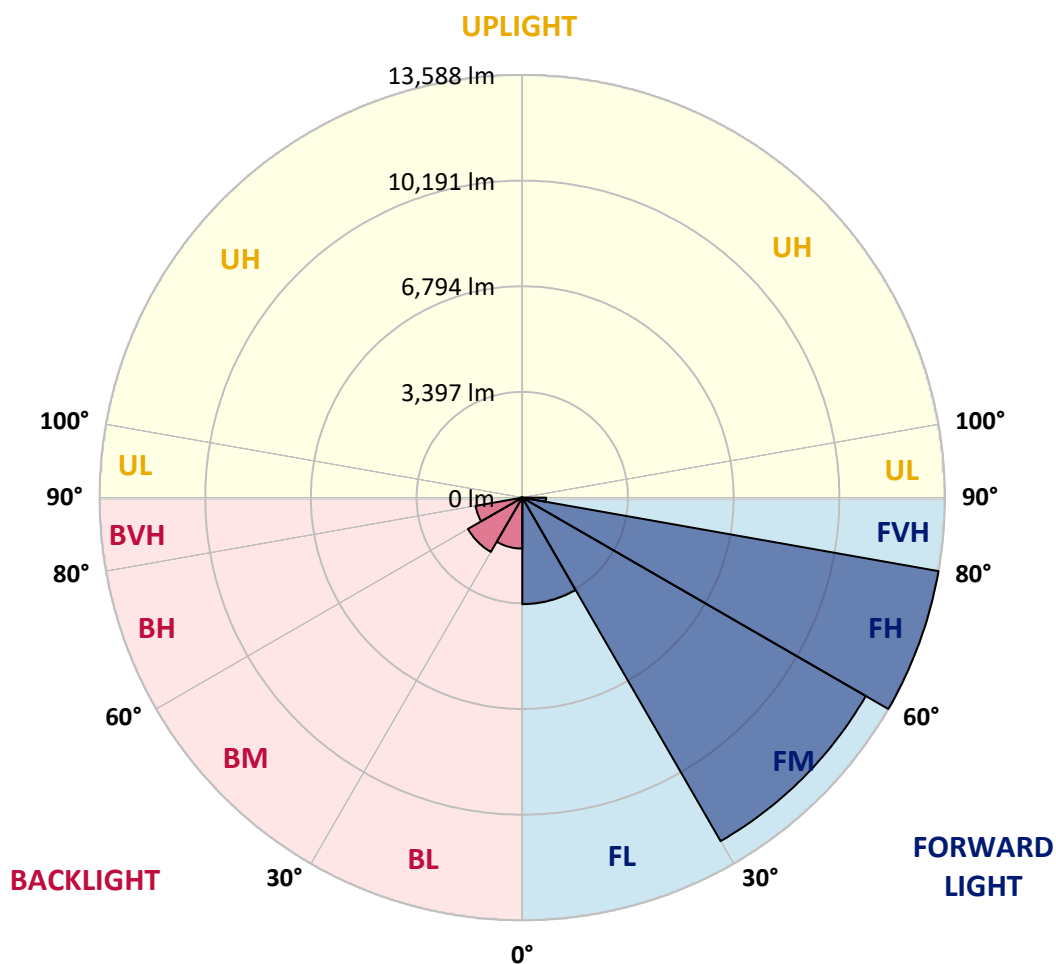
CATALOG NUMBER: GLAN-SA5D-735-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3425.9 | 9.6 | | | |
| FM | (30°-60°) | 12750.1 | 35.6 | | | |
| FH | (60°-80°) | 13587.6 | 38.0 | | | G5 |
| FVH | (80°-90°) | 764.3 | 2.1 | | | G5 |
| BL | (0°-30°) | 1638.5 | 4.6 | B3/2500 | | |
| BM | (30°-60°) | 2015.9 | 5.6 | B2/2500 | | |
| BH | (60°-80°) | 1524.3 | 4.3 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 63.4 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9884.7 | 9884.7 | 9884.7 | 9884.7 | 9884.7 | 9884.7 | 9884.7 | 9884.7 | 9884.7 | 9884.7 | 9884.7 |
| 2.5° | 10251.8 | 10279.7 | 10271.7 | 10261.8 | 10245.8 | 10201.9 | 10130.1 | 10118.1 | 10072.3 | 9974.5 | 9852.8 |
| 5° | 10094.2 | 10118.1 | 10120.1 | 10134.1 | 10154.0 | 10146.1 | 10094.2 | 10088.2 | 10020.4 | 9888.7 | 9685.2 |
| 7.5° | 9553.6 | 9585.5 | 9655.3 | 9733.1 | 9802.9 | 9868.8 | 9884.7 | 9894.7 | 9852.8 | 9701.2 | 9429.9 |
| 10° | 8945.1 | 8977.1 | 9009.0 | 9124.7 | 9296.2 | 9459.8 | 9595.5 | 9613.4 | 9623.4 | 9483.8 | 9152.6 |
| 12.5° | 8270.9 | 8336.7 | 8404.5 | 8576.1 | 8805.5 | 9062.8 | 9302.2 | 9340.1 | 9408.0 | 9302.2 | 8913.2 |
| 15° | 7698.3 | 7766.1 | 7863.9 | 8017.5 | 8294.8 | 8665.8 | 9003.0 | 9064.8 | 9198.5 | 9144.6 | 8689.8 |
| 17.5° | 7301.3 | 7325.3 | 7393.1 | 7568.7 | 7867.9 | 8258.9 | 8709.7 | 8833.4 | 9046.9 | 9032.9 | 8498.3 |
| 20° | 6988.1 | 7018.1 | 7060.0 | 7167.7 | 7478.9 | 7891.8 | 8436.4 | 8596.0 | 8885.3 | 8933.2 | 8308.8 |
| 22.5° | 6856.5 | 6878.4 | 6872.4 | 6930.3 | 7141.7 | 7556.7 | 8159.1 | 8348.7 | 8741.7 | 8865.3 | 8133.2 |
| 25° | 6864.5 | 6884.4 | 6854.5 | 6840.5 | 6966.2 | 7261.4 | 7869.9 | 8111.3 | 8626.0 | 8819.5 | 7973.6 |
| 27.5° | 6998.1 | 7012.1 | 6956.2 | 6900.4 | 6910.3 | 7077.9 | 7630.5 | 7897.8 | 8528.2 | 8839.4 | 7840.0 |
| 30° | 7177.7 | 7203.6 | 7167.7 | 7099.9 | 7026.0 | 7034.0 | 7476.9 | 7740.2 | 8482.3 | 8909.2 | 7776.1 |
| 32.5° | 7409.1 | 7433.0 | 7417.0 | 7363.2 | 7267.4 | 7161.7 | 7439.0 | 7682.4 | 8486.3 | 9050.9 | 7762.2 |
| 35° | 7652.4 | 7700.3 | 7726.3 | 7722.3 | 7644.5 | 7460.9 | 7588.6 | 7790.1 | 8582.1 | 9288.3 | 7844.0 |
| 37.5° | 7927.7 | 7967.6 | 8079.3 | 8151.2 | 8079.3 | 7865.9 | 7925.7 | 8065.4 | 8793.5 | 9631.4 | 8023.5 |
| 40° | 8195.1 | 8254.9 | 8418.5 | 8641.9 | 8614.0 | 8426.5 | 8440.4 | 8532.2 | 9166.6 | 10142.1 | 8374.6 |
| 42.5° | 8474.3 | 8546.2 | 8831.4 | 9162.6 | 9228.4 | 9082.8 | 9120.7 | 9202.5 | 9697.2 | 10850.3 | 8977.1 |
| 45° | 8833.4 | 8919.2 | 9270.3 | 9683.2 | 9942.6 | 9852.8 | 9960.5 | 10000.4 | 10407.4 | 11771.9 | 9771.0 |
| 47.5° | 9296.2 | 9396.0 | 9828.9 | 10343.6 | 10710.6 | 10792.4 | 10979.9 | 10956.0 | 11287.1 | 12863.1 | 10800.4 |
| 50° | 10076.2 | 10132.1 | 10541.1 | 11065.7 | 11570.4 | 11939.5 | 12143.0 | 12180.9 | 12378.4 | 13924.4 | 11951.5 |
| 52.5° | 11003.9 | 11053.7 | 11349.0 | 11807.8 | 12440.2 | 13222.2 | 13724.9 | 13601.2 | 13649.1 | 15217.1 | 13298.0 |
| 55° | 12047.2 | 12131.0 | 12318.5 | 12623.7 | 13443.6 | 14594.7 | 15604.1 | 15634.0 | 15103.4 | 16453.9 | 14588.7 |
| 57.5° | 12855.1 | 12996.8 | 13318.0 | 13752.8 | 14792.2 | 16120.8 | 17477.3 | 17497.3 | 16819.0 | 17774.6 | 16013.1 |
| 60° | 12448.2 | 12615.8 | 13349.9 | 14409.2 | 16561.7 | 18784.0 | 19715.6 | 19601.9 | 18488.7 | 19278.7 | 17750.6 |
| 62.5° | 10692.7 | 10722.6 | 11789.9 | 13445.6 | 17106.3 | 22346.9 | 23047.1 | 22566.3 | 20717.0 | 21185.8 | 19516.1 |
| 65° | 6920.3 | 7115.8 | 7961.6 | 10281.7 | 15316.8 | 24323.8 | 28884.2 | 27773.0 | 23841.1 | 23350.3 | 20994.3 |
| 67.5° | 4368.8 | 4319.0 | 4670.1 | 5871.0 | 10535.1 | 22582.3 | 33865.4 | 33689.9 | 27926.6 | 24716.8 | 20641.2 |
| 69° | 3622.7 | 3678.6 | 3798.3 | 4500.5 | 7249.5 | 19280.7 | 34453.9 | 35666.8 | 29907.6 | 24609.1 | 19358.5 |
| 70° | 3285.6 | 3311.5 | 3437.2 | 3989.8 | 5593.7 | 16148.7 | 33488.4 | 35613.0 | 30685.6 | 24158.2 | 18428.9 |
| 72.5° | 2607.3 | 2605.3 | 2820.8 | 3319.5 | 4181.3 | 9218.4 | 27497.7 | 30919.0 | 29815.8 | 22059.6 | 15227.1 |
| 75° | 1980.9 | 2012.9 | 2250.2 | 2808.8 | 3852.2 | 5037.1 | 19189.0 | 23811.1 | 23813.1 | 17423.5 | 9501.7 |
| 77.5° | 1428.3 | 1448.3 | 1725.6 | 2358.0 | 3628.7 | 4083.6 | 12781.3 | 17078.3 | 16055.0 | 7983.6 | 2986.4 |
| 80° | 935.6 | 947.6 | 1159.0 | 1867.2 | 3271.6 | 3852.2 | 7578.6 | 10453.3 | 7572.6 | 2118.6 | 987.5 |
| 82.5° | 512.7 | 572.5 | 708.2 | 1208.9 | 2625.3 | 3558.9 | 4606.2 | 5290.5 | 2840.7 | 943.6 | 514.7 |
| 85° | 257.3 | 273.3 | 399.0 | 706.2 | 1715.6 | 2944.5 | 3207.8 | 3034.2 | 1466.3 | 468.8 | 267.3 |
| 87.5° | 75.8 | 95.8 | 165.6 | 273.3 | 696.2 | 1534.1 | 1785.4 | 1601.9 | 564.6 | 169.6 | 55.9 |
| 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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CATALOG NUMBER: GLAN-SA5D-735-U-SL3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9884.7 | 9884.7 | 9884.7 | 9884.7 | 9884.7 | 9884.7 | 9884.7 | 9884.7 | 9884.7 | 9884.7 | 9884.7 |
| 2.5° | 9802.9 | 9767.0 | 9607.4 | 9463.8 | 9332.1 | 9192.5 | 9074.8 | 8971.1 | 8981.0 | 8983.0 | 8877.3 |
| 5° | 9579.5 | 9497.7 | 9194.5 | 8911.2 | 8671.8 | 8368.6 | 8109.3 | 7941.7 | 7857.9 | 7746.2 | 7786.1 |
| 7.5° | 9276.3 | 9118.7 | 8697.8 | 8227.0 | 7786.1 | 7393.1 | 6966.2 | 6672.9 | 6485.4 | 6303.9 | 6327.8 |
| 10° | 8963.1 | 8709.7 | 8097.3 | 7474.9 | 6904.4 | 6276.0 | 5731.4 | 5264.5 | 4917.4 | 4787.8 | 4702.0 |
| 12.5° | 8641.9 | 8308.8 | 7530.8 | 6702.9 | 5914.9 | 5162.8 | 4390.8 | 3890.1 | 3507.0 | 3303.6 | 3329.5 |
| 15° | 8348.7 | 7943.7 | 6940.3 | 5930.8 | 4907.5 | 4011.7 | 3241.7 | 2764.9 | 2497.6 | 2441.8 | 2473.7 |
| 17.5° | 8077.4 | 7546.7 | 6387.7 | 5180.8 | 3985.8 | 3008.3 | 2435.8 | 2166.5 | 2058.7 | 2028.8 | 2026.8 |
| 20° | 7798.1 | 7209.6 | 5767.3 | 4378.8 | 3106.1 | 2332.0 | 1998.9 | 1873.2 | 1853.3 | 1865.2 | 1867.2 |
| 22.5° | 7514.8 | 6792.6 | 5128.9 | 3582.8 | 2473.7 | 1907.1 | 1747.5 | 1713.6 | 1729.6 | 1757.5 | 1761.5 |
| 25° | 7253.5 | 6425.6 | 4514.5 | 2884.6 | 1975.0 | 1675.7 | 1597.9 | 1597.9 | 1633.8 | 1675.7 | 1677.7 |
| 27.5° | 7038.0 | 6070.5 | 3902.0 | 2290.1 | 1653.8 | 1508.1 | 1482.2 | 1496.2 | 1546.0 | 1578.0 | 1580.0 |
| 30° | 6860.5 | 5739.3 | 3323.5 | 1835.3 | 1454.3 | 1374.5 | 1368.5 | 1392.4 | 1428.3 | 1458.3 | 1460.3 |
| 32.5° | 6726.8 | 5448.1 | 2782.9 | 1542.1 | 1316.6 | 1272.7 | 1270.8 | 1288.7 | 1308.7 | 1316.6 | 1324.6 |
| 35° | 6674.9 | 5206.7 | 2288.2 | 1356.5 | 1224.9 | 1196.9 | 1196.9 | 1194.9 | 1202.9 | 1206.9 | 1210.9 |
| 37.5° | 6716.8 | 5021.2 | 1905.1 | 1236.8 | 1157.0 | 1137.1 | 1125.1 | 1113.2 | 1109.2 | 1109.2 | 1111.2 |
| 40° | 6894.4 | 4923.4 | 1619.9 | 1159.0 | 1109.2 | 1079.2 | 1057.3 | 1043.3 | 1029.4 | 1033.4 | 1037.3 |
| 42.5° | 7271.4 | 4941.4 | 1426.4 | 1107.2 | 1067.3 | 1025.4 | 993.5 | 977.5 | 967.5 | 979.5 | 977.5 |
| 45° | 7871.9 | 5120.9 | 1302.7 | 1071.3 | 1025.4 | 971.5 | 941.6 | 925.6 | 925.6 | 943.6 | 949.6 |
| 47.5° | 8711.7 | 5464.0 | 1236.8 | 1043.3 | 993.5 | 929.6 | 899.7 | 887.7 | 891.7 | 921.6 | 923.6 |
| 50° | 9737.1 | 6060.5 | 1224.9 | 1029.4 | 977.5 | 899.7 | 865.8 | 853.8 | 863.8 | 895.7 | 899.7 |
| 52.5° | 10868.2 | 6828.5 | 1282.7 | 1031.4 | 963.5 | 881.7 | 837.9 | 819.9 | 829.9 | 855.8 | 863.8 |
| 55° | 12208.8 | 7790.1 | 1432.3 | 1039.3 | 943.6 | 871.8 | 817.9 | 778.0 | 790.0 | 807.9 | 809.9 |
| 57.5° | 13577.3 | 9003.0 | 1695.7 | 1041.3 | 927.6 | 853.8 | 784.0 | 732.1 | 732.1 | 744.1 | 750.1 |
| 60° | 15249.0 | 10323.6 | 2042.8 | 1043.3 | 929.6 | 827.9 | 738.1 | 680.3 | 672.3 | 678.3 | 680.3 |
| 62.5° | 16908.8 | 11428.8 | 2100.6 | 1037.3 | 949.6 | 802.0 | 688.2 | 628.4 | 614.4 | 612.4 | 608.4 |
| 65° | 17640.9 | 11223.3 | 1721.6 | 1009.4 | 971.5 | 786.0 | 648.3 | 578.5 | 554.6 | 546.6 | 546.6 |
| 67.5° | 16448.0 | 9493.7 | 1294.7 | 971.5 | 957.6 | 770.0 | 610.4 | 536.6 | 508.7 | 492.7 | 492.7 |
| 69° | 15326.8 | 8444.4 | 1163.0 | 945.6 | 921.6 | 744.1 | 586.5 | 514.7 | 480.8 | 462.8 | 456.8 |
| 70° | 14461.0 | 7722.3 | 1107.2 | 923.6 | 887.7 | 714.2 | 568.5 | 498.7 | 460.8 | 440.9 | 436.9 |
| 72.5° | 11540.5 | 6058.5 | 969.5 | 839.9 | 756.1 | 600.5 | 504.7 | 448.9 | 412.9 | 391.0 | 385.0 |
| 75° | 6651.0 | 3283.6 | 803.9 | 730.1 | 608.4 | 466.8 | 426.9 | 391.0 | 363.1 | 343.1 | 337.1 |
| 77.5° | 2046.8 | 1268.8 | 582.5 | 576.5 | 446.9 | 361.1 | 341.1 | 327.2 | 307.2 | 285.3 | 281.3 |
| 80° | 861.8 | 646.3 | 395.0 | 389.0 | 297.2 | 251.4 | 245.4 | 243.4 | 235.4 | 217.4 | 211.5 |
| 82.5° | 472.8 | 365.1 | 275.3 | 239.4 | 179.5 | 145.6 | 151.6 | 153.6 | 147.6 | 129.7 | 117.7 |
| 85° | 231.4 | 199.5 | 133.7 | 107.7 | 81.8 | 51.9 | 49.9 | 59.8 | 55.9 | 39.9 | 43.9 |
| 87.5° | 45.9 | 55.9 | 35.9 | 16.0 | 8.0 | 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 |

(END OF REPORT)