

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: P529970

Luminaire Tested: **GLAN-SA5A-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5A-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16422 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

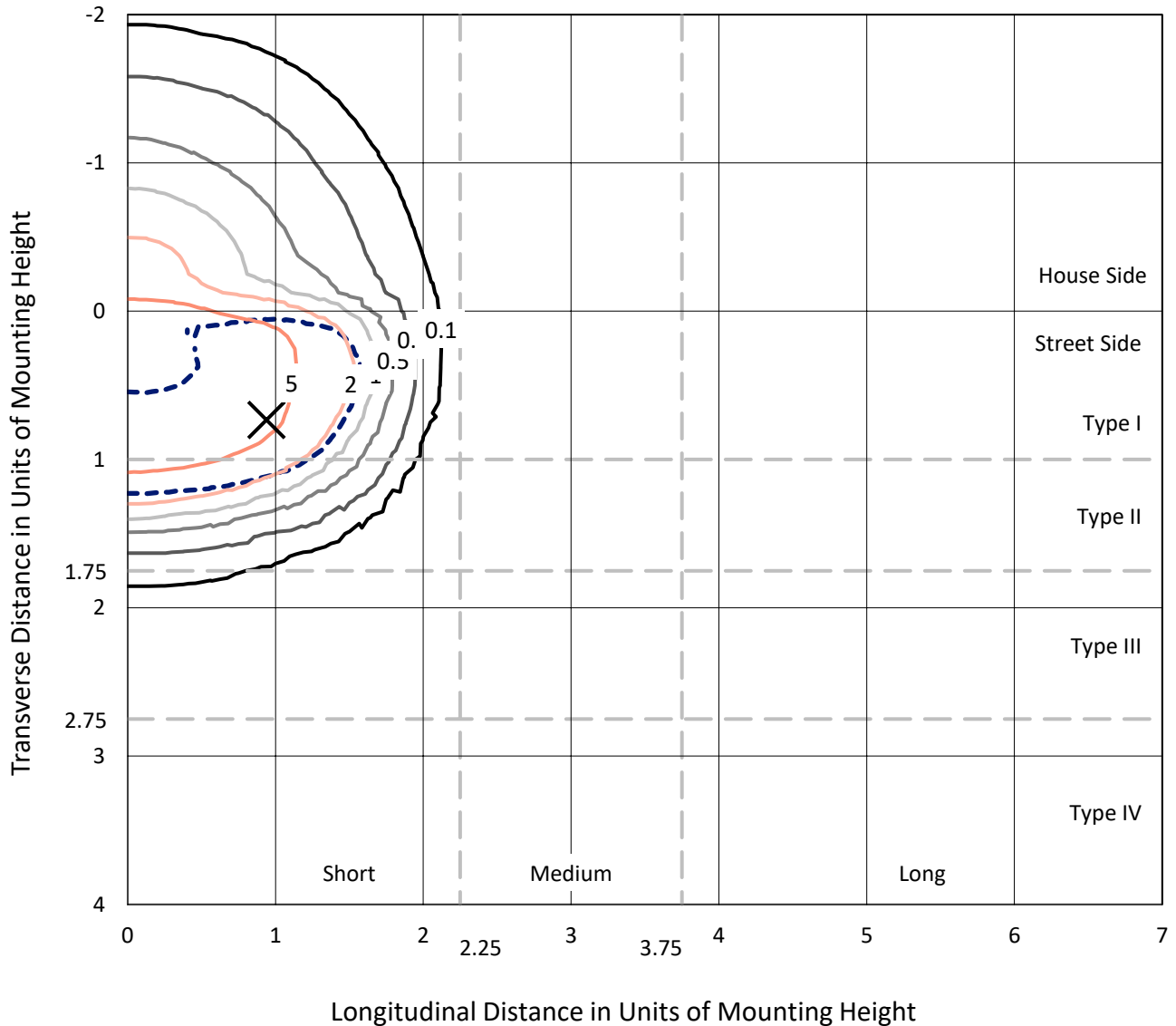
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

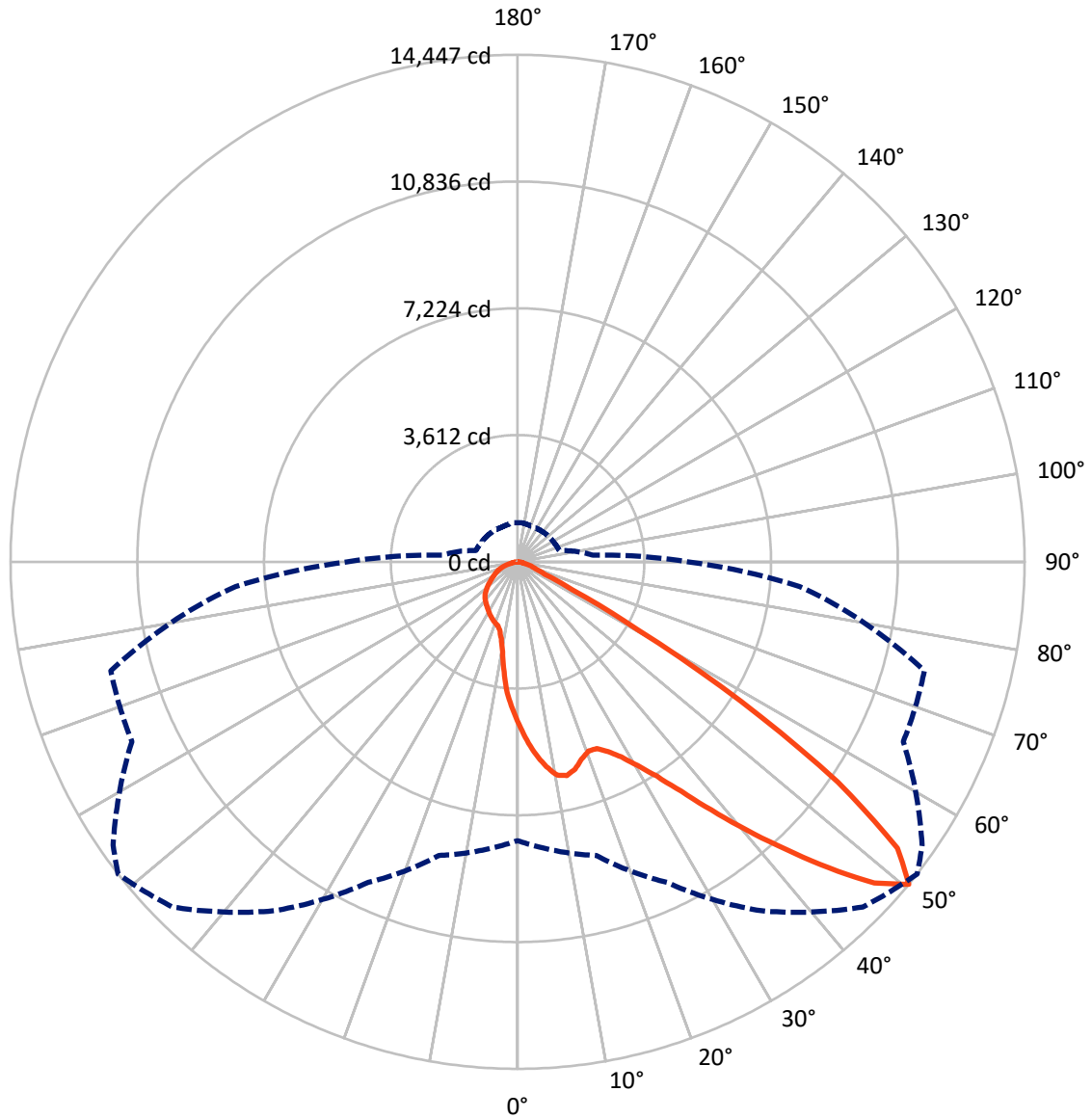
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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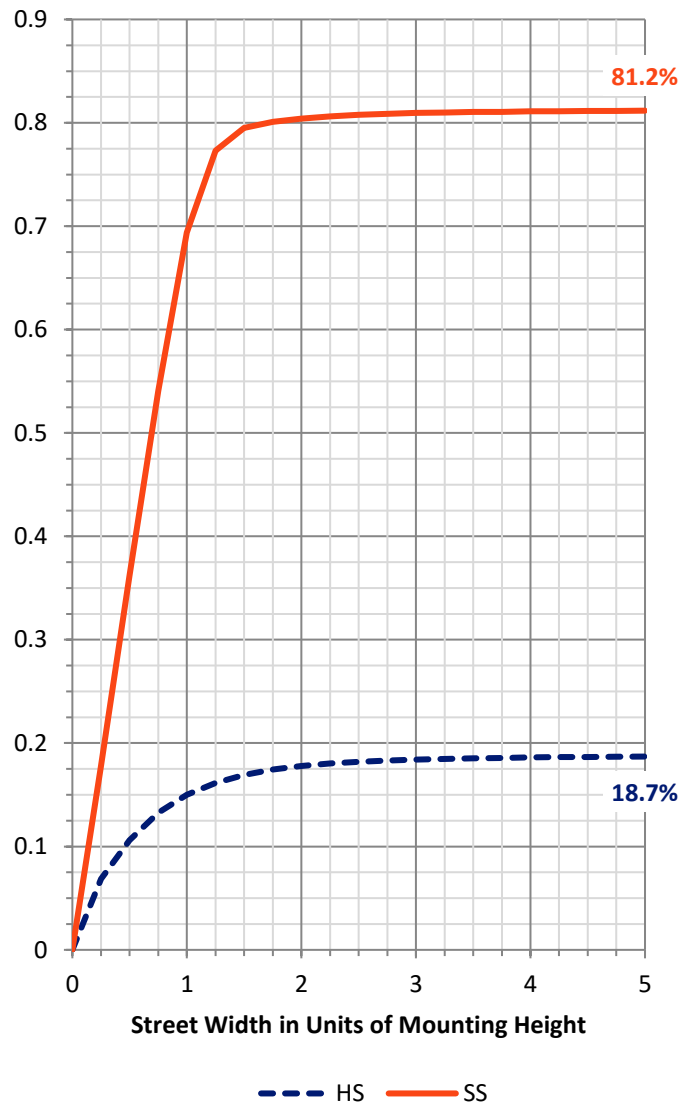
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3087.0 | 0.0 | 3087.0 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 13335.1 | 0.0 | 13335.1 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 16422.0 | 0.0 | 16422.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 426.7 | 2.6 |
| 10°-20° | 1143.6 | 7.0 |
| 20°-30° | 1926.3 | 11.7 |
| 30°-40° | 3232.5 | 19.7 |
| 40°-50° | 4944.9 | 30.1 |
| 50°-60° | 3605.2 | 22.0 |
| 60°-70° | 802.3 | 4.9 |
| 70°-80° | 289.4 | 1.8 |
| 80°-90° | 51.2 | 0.3 |
| 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° | 16422.0 | 100.0 |
| 0°-180° | 16422.0 | 100.0 |

Coefficient of Utilization



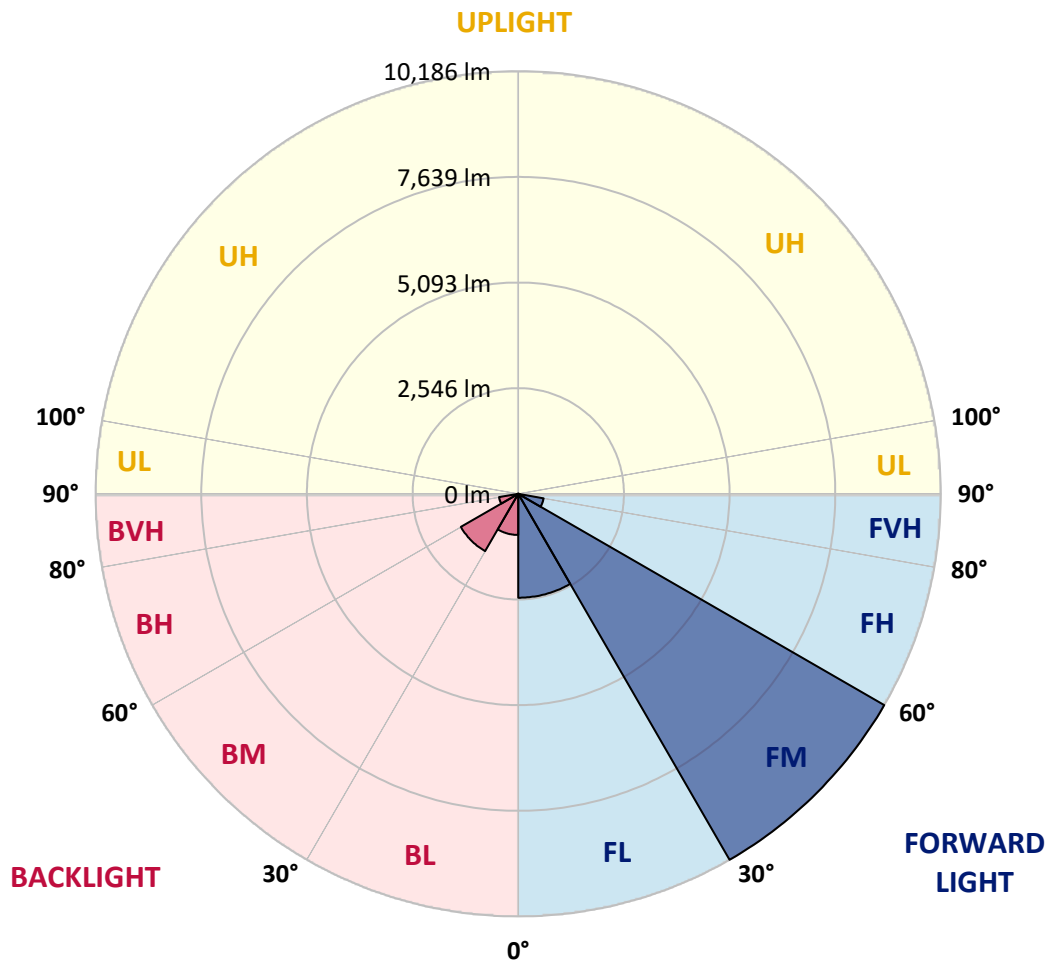
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2504.9 | 15.3 | | | |
| FM (30°-60°) | 10185.8 | 62.0 | | | |
| FH (60°-80°) | 621.4 | 3.8 | | | G0/660 |
| FVH (80°-90°) | 23.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 991.6 | 6.0 | B2/1000 | | |
| BM (30°-60°) | 1596.8 | 9.7 | B2/2500 | | |
| BH (60°-80°) | 470.3 | 2.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 28.3 | 0.2 | | | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 4629.1 | 4629.1 | 4629.1 | 4629.1 | 4629.1 | 4629.1 | 4629.1 | 4629.1 | 4629.1 | 4629.1 | 4629.1 |
| 2.5° | 5450.4 | 5345.5 | 5357.4 | 5282.2 | 5201.0 | 5177.3 | 5094.2 | 5015.0 | 4955.6 | 4829.0 | 4712.2 |
| 5° | 5957.1 | 5925.4 | 5877.9 | 5818.5 | 5757.2 | 5606.8 | 5521.7 | 5422.7 | 5205.0 | 5009.1 | 4815.1 |
| 7.5° | 6030.3 | 6024.3 | 6050.1 | 6050.1 | 6071.8 | 6014.5 | 5893.7 | 5824.5 | 5592.9 | 5274.3 | 4914.1 |
| 10° | 5515.7 | 5533.5 | 5658.2 | 5820.5 | 6046.1 | 6202.5 | 6182.7 | 6164.9 | 5911.5 | 5476.1 | 5030.8 |
| 12.5° | 5106.1 | 5066.5 | 5139.7 | 5278.2 | 5616.7 | 5994.7 | 6250.0 | 6251.9 | 6186.6 | 5798.7 | 5115.9 |
| 15° | 4874.5 | 4902.2 | 4922.0 | 4987.3 | 5242.6 | 5680.0 | 6129.2 | 6261.8 | 6548.8 | 6026.3 | 5250.5 |
| 17.5° | 5022.9 | 4929.9 | 4926.0 | 4941.8 | 5072.4 | 5400.9 | 5905.6 | 6133.2 | 6746.7 | 6319.2 | 5416.8 |
| 20° | 5216.9 | 5214.9 | 5159.5 | 5139.7 | 5137.7 | 5430.6 | 5759.1 | 6067.9 | 6851.6 | 6699.2 | 5585.0 |
| 22.5° | 5557.3 | 5557.3 | 5466.2 | 5422.7 | 5329.7 | 5569.2 | 5778.9 | 5988.7 | 7025.8 | 6960.5 | 5666.1 |
| 25° | 6127.3 | 6034.2 | 5877.9 | 5771.0 | 5717.6 | 5802.7 | 5988.7 | 6176.7 | 7178.2 | 7237.5 | 5834.4 |
| 27.5° | 6653.7 | 6507.2 | 6430.1 | 6246.0 | 6174.8 | 6125.3 | 6295.5 | 6485.5 | 7356.3 | 7669.0 | 5925.4 |
| 30° | 7251.4 | 7225.7 | 7087.1 | 6849.6 | 6673.5 | 6582.5 | 6738.8 | 6926.8 | 7682.8 | 8110.3 | 6135.2 |
| 32.5° | 8320.1 | 8086.6 | 7898.5 | 7607.6 | 7320.7 | 7126.7 | 7281.1 | 7405.8 | 8225.1 | 8571.4 | 6364.8 |
| 35° | 9473.9 | 9398.7 | 9074.1 | 8549.7 | 8110.3 | 7936.1 | 8027.2 | 8120.2 | 8856.4 | 9276.0 | 6750.7 |
| 37.5° | 10607.9 | 10505.0 | 10237.8 | 9796.5 | 9262.1 | 8907.9 | 8973.2 | 9082.0 | 9564.9 | 10226.0 | 7221.7 |
| 40° | 11423.3 | 11296.6 | 11162.1 | 11096.8 | 10566.4 | 10081.5 | 10043.9 | 10071.6 | 10522.8 | 11116.5 | 7744.2 |
| 42.5° | 11482.7 | 11639.0 | 11680.6 | 11943.8 | 11819.1 | 11421.3 | 11189.8 | 11195.7 | 11437.2 | 11997.2 | 8272.6 |
| 45° | 11358.0 | 11213.5 | 11520.3 | 12238.7 | 12650.3 | 12836.4 | 12446.5 | 12397.0 | 12003.2 | 12507.8 | 8535.8 |
| 47.5° | 10049.8 | 10089.4 | 10607.9 | 11743.9 | 12933.3 | 13764.6 | 13673.5 | 13509.3 | 12306.0 | 12490.0 | 8494.3 |
| 50° | 7944.1 | 8183.5 | 8664.5 | 10079.5 | 12141.7 | 13911.0 | 14447.4 | 14067.4 | 12125.9 | 11999.2 | 8070.7 |
| 52.5° | 5290.1 | 5389.1 | 5705.7 | 7532.4 | 9762.8 | 12434.6 | 13556.8 | 13643.8 | 11959.6 | 11356.0 | 7534.4 |
| 55° | 2355.1 | 2347.2 | 2792.5 | 3934.4 | 6125.3 | 9462.0 | 11077.0 | 11607.4 | 11320.4 | 10700.9 | 7011.9 |
| 57.5° | 997.5 | 1031.1 | 1213.2 | 1700.0 | 3012.2 | 5709.7 | 7504.7 | 7969.8 | 8706.0 | 8787.2 | 5379.2 |
| 60° | 674.9 | 678.8 | 728.3 | 851.0 | 1260.7 | 2681.7 | 3936.4 | 4494.5 | 5020.9 | 4985.3 | 2853.8 |
| 62.5° | 530.4 | 544.2 | 581.9 | 631.3 | 748.1 | 1217.1 | 1761.4 | 2072.1 | 2105.8 | 1771.3 | 1082.6 |
| 65° | 453.2 | 455.2 | 492.8 | 534.4 | 585.8 | 708.5 | 849.0 | 864.9 | 874.8 | 843.1 | 795.6 |
| 67.5° | 374.0 | 378.0 | 407.7 | 455.2 | 502.7 | 542.3 | 581.9 | 601.6 | 647.2 | 736.2 | 724.3 |
| 70° | 296.9 | 302.8 | 328.5 | 368.1 | 411.7 | 435.4 | 484.9 | 502.7 | 544.2 | 613.5 | 641.2 |
| 72.5° | 225.6 | 227.6 | 249.4 | 277.1 | 316.7 | 340.4 | 382.0 | 401.8 | 429.5 | 488.8 | 514.6 |
| 75° | 162.3 | 168.2 | 184.1 | 197.9 | 203.8 | 219.7 | 259.3 | 281.0 | 320.6 | 346.3 | 348.3 |
| 77.5° | 85.1 | 89.1 | 93.0 | 93.0 | 112.8 | 142.5 | 168.2 | 180.1 | 207.8 | 227.6 | 217.7 |
| 80° | 33.6 | 35.6 | 45.5 | 61.4 | 79.2 | 102.9 | 120.7 | 126.7 | 150.4 | 162.3 | 168.2 |
| 82.5° | 19.8 | 21.8 | 29.7 | 43.5 | 57.4 | 73.2 | 87.1 | 93.0 | 108.8 | 122.7 | 126.7 |
| 85° | 9.9 | 11.9 | 17.8 | 27.7 | 37.6 | 45.5 | 43.5 | 41.6 | 41.6 | 39.6 | 41.6 |
| 87.5° | 4.0 | 4.0 | 5.9 | 5.9 | 5.9 | 7.9 | 9.9 | 9.9 | 9.9 | 11.9 | 11.9 |
| 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-SA5A-830-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4629.1 | 4629.1 | 4629.1 | 4629.1 | 4629.1 | 4629.1 | 4629.1 | 4629.1 | 4629.1 | 4629.1 | 4629.1 |
| 2.5° | 4635.0 | 4555.9 | 4482.6 | 4348.1 | 4201.6 | 4160.0 | 3989.8 | 3928.5 | 3885.0 | 3833.5 | 3817.7 |
| 5° | 4658.8 | 4553.9 | 4318.4 | 4047.2 | 3831.5 | 3554.4 | 3372.4 | 3176.4 | 3033.9 | 2998.3 | 2988.4 |
| 7.5° | 4708.3 | 4528.2 | 4122.4 | 3712.8 | 3271.4 | 2895.4 | 2608.4 | 2454.1 | 2317.5 | 2309.6 | 2295.7 |
| 10° | 4763.7 | 4451.0 | 3908.7 | 3265.5 | 2701.5 | 2353.1 | 2181.0 | 2113.7 | 2080.0 | 2072.1 | 2068.1 |
| 12.5° | 4809.2 | 4435.1 | 3669.2 | 2830.1 | 2297.7 | 2087.9 | 2036.5 | 2030.5 | 2044.4 | 2048.4 | 2056.3 |
| 15° | 4829.0 | 4371.8 | 3380.3 | 2440.2 | 2046.4 | 1969.2 | 1991.0 | 2014.7 | 2024.6 | 2050.3 | 2030.5 |
| 17.5° | 4866.6 | 4290.7 | 3024.0 | 2131.5 | 1905.9 | 1919.7 | 1957.3 | 1985.0 | 2000.9 | 2018.7 | 1992.9 |
| 20° | 4886.4 | 4217.4 | 2689.6 | 1947.4 | 1856.4 | 1882.1 | 1933.6 | 1955.3 | 1975.1 | 1983.0 | 1953.4 |
| 22.5° | 4868.6 | 4067.0 | 2394.7 | 1799.0 | 1808.9 | 1842.5 | 1888.1 | 1911.8 | 1899.9 | 1868.3 | 1850.4 |
| 25° | 4821.1 | 3855.3 | 2087.9 | 1704.0 | 1741.6 | 1801.0 | 1836.6 | 1818.8 | 1797.0 | 1779.2 | 1773.3 |
| 27.5° | 4819.1 | 3596.0 | 1866.3 | 1616.9 | 1684.2 | 1765.3 | 1753.5 | 1737.6 | 1747.5 | 1733.7 | 1717.8 |
| 30° | 4829.0 | 3344.7 | 1684.2 | 1567.4 | 1642.6 | 1682.2 | 1696.1 | 1680.2 | 1692.1 | 1666.4 | 1674.3 |
| 32.5° | 4777.5 | 3099.3 | 1565.5 | 1510.0 | 1593.2 | 1591.2 | 1636.7 | 1648.6 | 1620.9 | 1567.4 | 1575.4 |
| 35° | 4799.3 | 2901.3 | 1464.5 | 1484.3 | 1537.8 | 1537.8 | 1573.4 | 1559.5 | 1486.3 | 1454.6 | 1462.5 |
| 37.5° | 4949.7 | 2707.4 | 1415.0 | 1448.7 | 1484.3 | 1500.1 | 1488.3 | 1428.9 | 1411.1 | 1411.1 | 1415.0 |
| 40° | 5092.2 | 2541.2 | 1385.4 | 1440.8 | 1434.8 | 1444.7 | 1357.7 | 1363.6 | 1363.6 | 1365.6 | 1355.7 |
| 42.5° | 5218.9 | 2428.3 | 1361.6 | 1393.3 | 1403.2 | 1351.7 | 1298.3 | 1292.3 | 1306.2 | 1304.2 | 1296.3 |
| 45° | 5264.4 | 2335.3 | 1328.0 | 1339.8 | 1347.8 | 1262.7 | 1236.9 | 1225.1 | 1240.9 | 1246.8 | 1254.7 |
| 47.5° | 5090.2 | 2258.1 | 1290.4 | 1266.6 | 1250.8 | 1195.4 | 1161.7 | 1140.0 | 1159.7 | 1193.4 | 1201.3 |
| 50° | 4866.6 | 2157.2 | 1231.0 | 1185.5 | 1151.8 | 1128.1 | 1104.3 | 1082.6 | 1096.4 | 1120.2 | 1114.2 |
| 52.5° | 4536.1 | 1998.9 | 1155.8 | 1108.3 | 1050.9 | 1056.8 | 1035.1 | 1023.2 | 1031.1 | 1031.1 | 1025.2 |
| 55° | 4065.0 | 1642.6 | 1029.1 | 995.5 | 948.0 | 963.8 | 967.8 | 951.9 | 936.1 | 950.0 | 938.1 |
| 57.5° | 2774.7 | 1159.7 | 918.3 | 918.3 | 870.8 | 892.6 | 890.6 | 853.0 | 815.4 | 819.3 | 811.4 |
| 60° | 1605.0 | 924.2 | 847.1 | 839.1 | 789.7 | 807.5 | 811.4 | 785.7 | 728.3 | 732.3 | 724.3 |
| 62.5° | 912.4 | 789.7 | 740.2 | 728.3 | 718.4 | 734.2 | 734.2 | 700.6 | 651.1 | 655.1 | 647.2 |
| 65° | 775.8 | 732.3 | 661.0 | 659.0 | 655.1 | 659.0 | 643.2 | 607.6 | 564.0 | 546.2 | 548.2 |
| 67.5° | 704.6 | 676.8 | 607.6 | 589.8 | 577.9 | 575.9 | 546.2 | 512.6 | 492.8 | 477.0 | 475.0 |
| 70° | 617.5 | 595.7 | 544.2 | 520.5 | 508.6 | 480.9 | 451.2 | 429.5 | 401.8 | 393.8 | 401.8 |
| 72.5° | 488.8 | 486.9 | 467.1 | 441.3 | 415.6 | 393.8 | 368.1 | 338.4 | 312.7 | 306.8 | 292.9 |
| 75° | 338.4 | 342.4 | 346.3 | 342.4 | 320.6 | 292.9 | 263.2 | 239.5 | 207.8 | 190.0 | 186.0 |
| 77.5° | 221.7 | 227.6 | 233.5 | 225.6 | 211.8 | 186.0 | 166.2 | 136.6 | 112.8 | 99.0 | 97.0 |
| 80° | 162.3 | 170.2 | 174.2 | 168.2 | 152.4 | 132.6 | 110.8 | 87.1 | 69.3 | 57.4 | 57.4 |
| 82.5° | 124.7 | 132.6 | 136.6 | 126.7 | 110.8 | 95.0 | 79.2 | 61.4 | 47.5 | 37.6 | 35.6 |
| 85° | 43.5 | 41.6 | 49.5 | 51.5 | 61.4 | 57.4 | 47.5 | 35.6 | 27.7 | 19.8 | 17.8 |
| 87.5° | 11.9 | 11.9 | 13.9 | 13.9 | 11.9 | 9.9 | 9.9 | 9.9 | 7.9 | 5.9 | 5.9 |
| 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)