

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: P527180

Luminaire Tested: **GLAN-SA2A-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2A-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6379 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

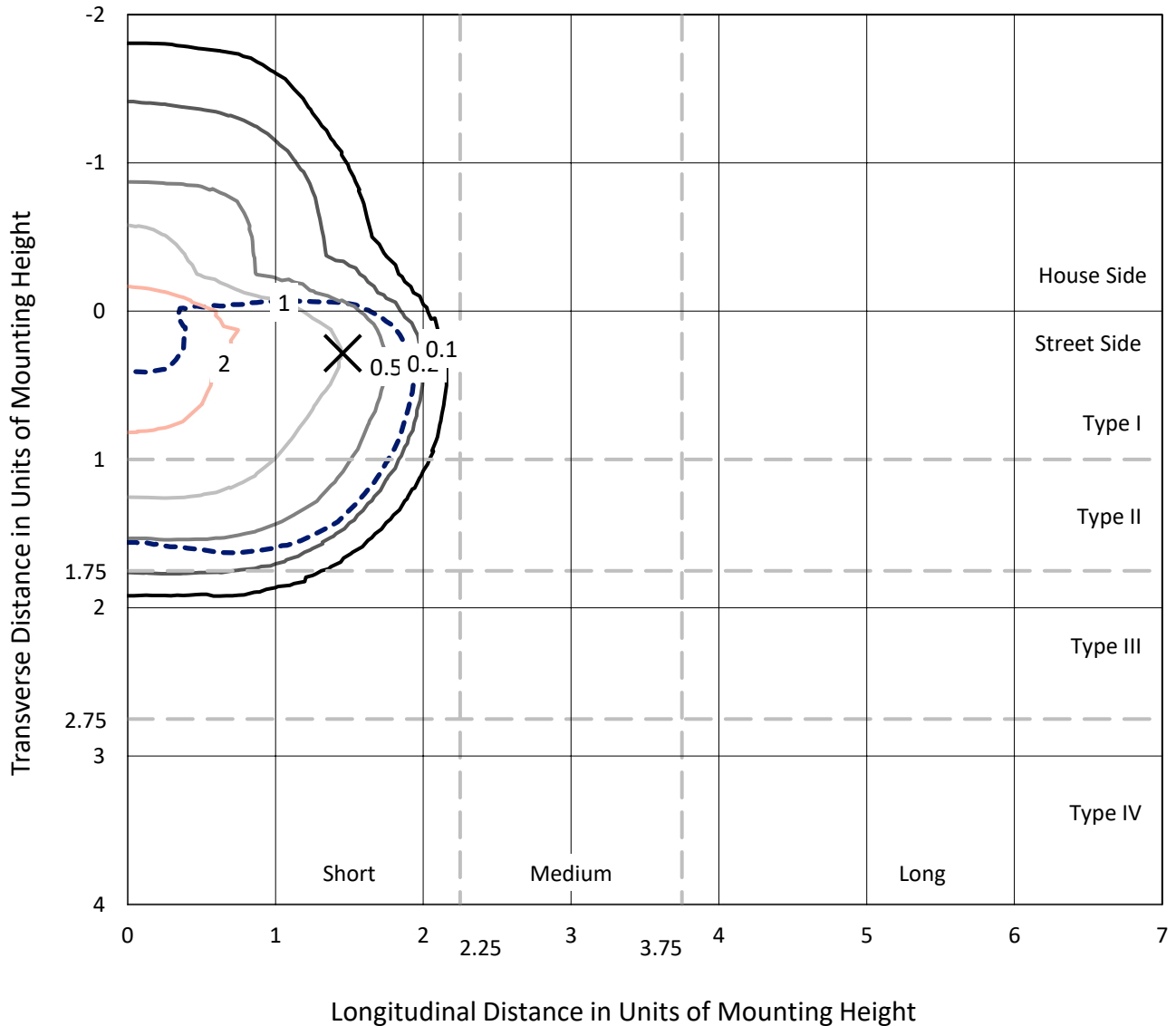
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

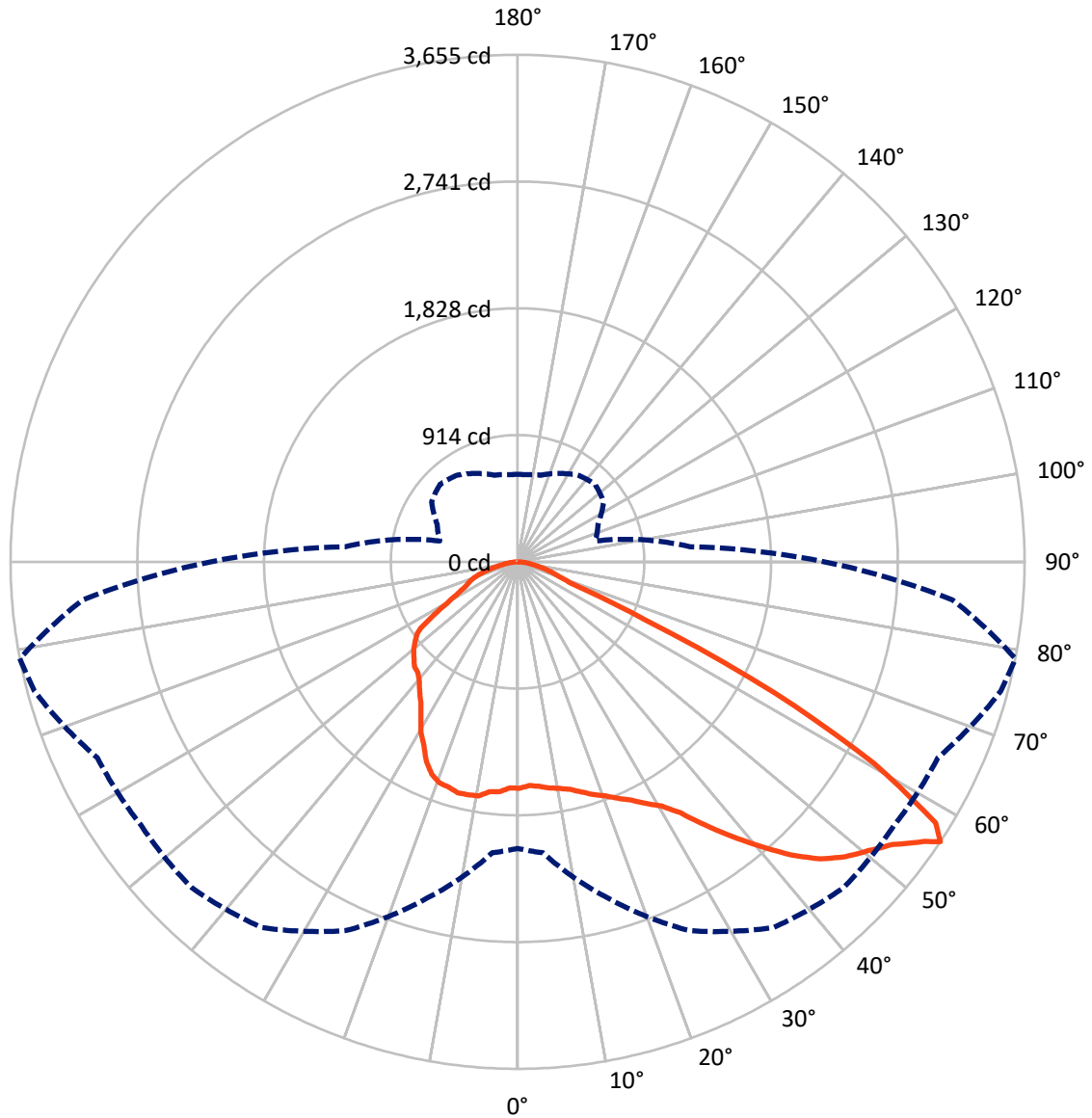
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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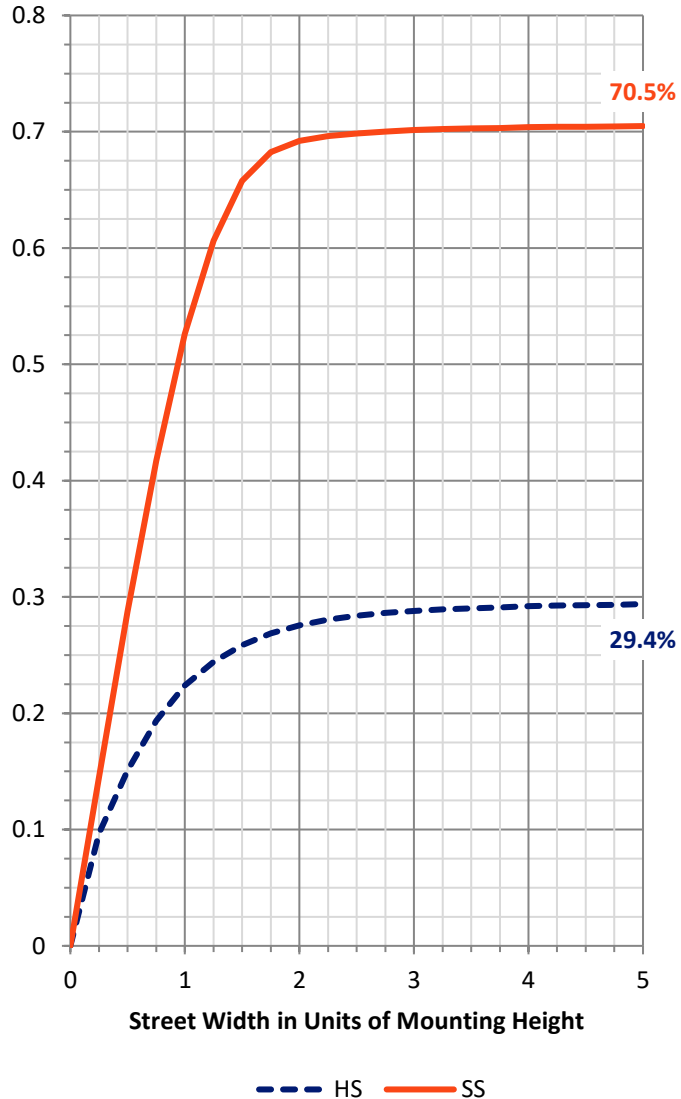
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1883.9 | 0.0 | 1883.9 |
| | % Fixture | 29.5 | 0.0 | 29.5 |
| Street Side | Lumens | 4495.1 | 0.0 | 4495.1 |
| | % Fixture | 70.5 | 0.0 | 70.5 |
| Total | Lumens | 6379.0 | 0.0 | 6379.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 148.4 | 2.3 |
| 10°-20° | 406.1 | 6.4 |
| 20°-30° | 694.8 | 10.9 |
| 30°-40° | 1064.8 | 16.7 |
| 40°-50° | 1439.1 | 22.6 |
| 50°-60° | 1652.9 | 25.9 |
| 60°-70° | 753.4 | 11.8 |
| 70°-80° | 185.8 | 2.9 |
| 80°-90° | 33.8 | 0.5 |
| 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° | 6379.0 | 100.0 |
| 0°-180° | 6379.0 | 100.0 |

Coefficient of Utilization

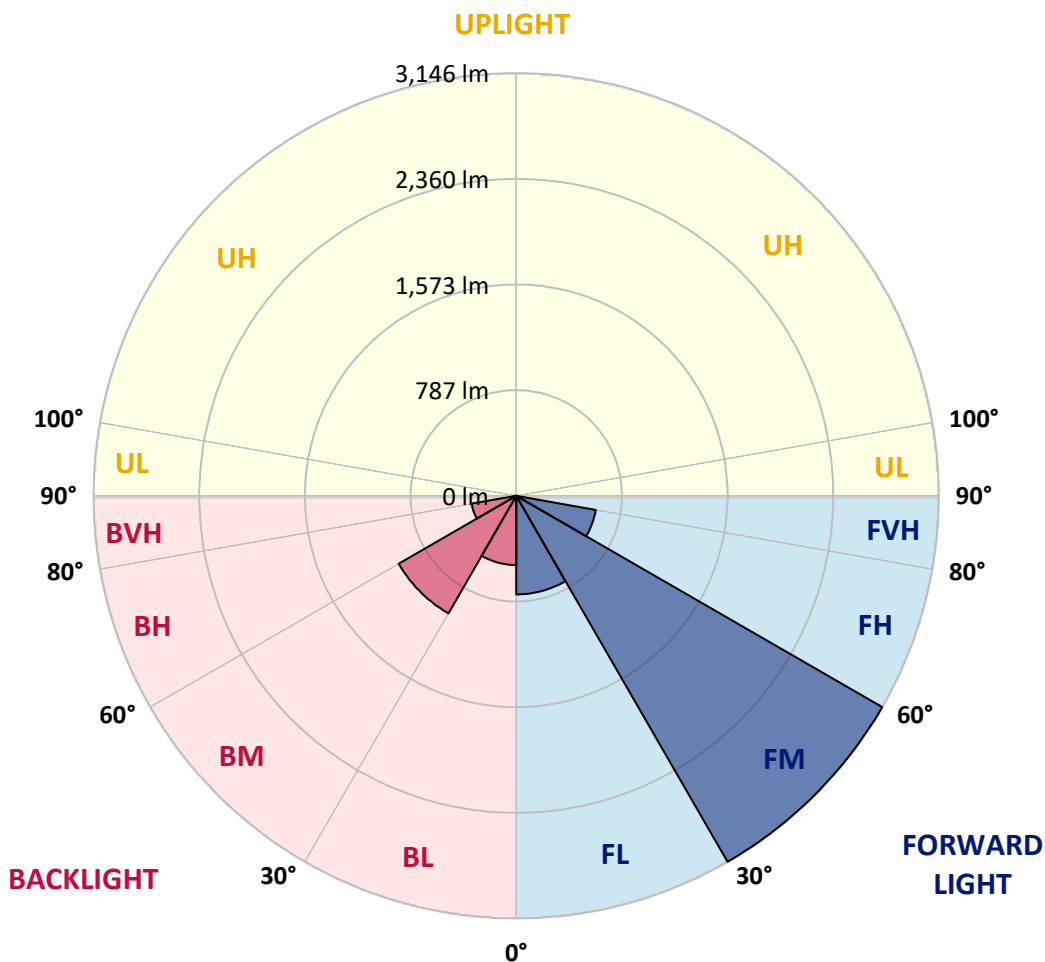


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 734.0 | 11.5 | | | |
| FM (30°-60°) | 3146.3 | 49.3 | | | |
| FH (60°-80°) | 601.4 | 9.4 | | | G0/660 |
| FVH (80°-90°) | 13.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 515.3 | 8.1 | B2/1000 | | |
| BM (30°-60°) | 1010.5 | 15.8 | B2/2500 | | |
| BH (60°-80°) | 337.8 | 5.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 20.3 | 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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1632.1 | 1632.1 | 1632.1 | 1632.1 | 1632.1 | 1632.1 | 1632.1 | 1632.1 | 1632.1 | 1632.1 | 1632.1 |
| 2.5° | 1552.7 | 1548.7 | 1558.2 | 1565.4 | 1574.1 | 1585.3 | 1590.8 | 1594.0 | 1621.8 | 1614.7 | 1636.1 |
| 5° | 1519.3 | 1509.0 | 1516.1 | 1521.7 | 1536.8 | 1550.3 | 1565.4 | 1589.2 | 1614.7 | 1625.8 | 1652.0 |
| 7.5° | 1489.9 | 1484.3 | 1482.7 | 1486.7 | 1507.4 | 1524.9 | 1551.1 | 1586.0 | 1627.4 | 1645.6 | 1660.7 |
| 10° | 1441.4 | 1433.5 | 1445.4 | 1471.6 | 1477.2 | 1513.7 | 1543.9 | 1594.0 | 1629.7 | 1661.5 | 1706.0 |
| 12.5° | 1420.0 | 1412.0 | 1414.4 | 1429.5 | 1468.4 | 1503.4 | 1539.2 | 1595.6 | 1671.1 | 1683.8 | 1743.4 |
| 15° | 1454.1 | 1446.2 | 1448.6 | 1444.6 | 1482.0 | 1500.2 | 1556.6 | 1627.4 | 1699.7 | 1721.1 | 1784.7 |
| 17.5° | 1532.0 | 1532.8 | 1522.5 | 1513.7 | 1505.0 | 1543.9 | 1582.9 | 1646.4 | 1710.8 | 1764.8 | 1812.5 |
| 20° | 1680.6 | 1654.4 | 1633.7 | 1584.5 | 1570.9 | 1587.6 | 1636.9 | 1698.1 | 1756.1 | 1800.6 | 1854.6 |
| 22.5° | 1795.0 | 1797.4 | 1768.0 | 1687.0 | 1657.6 | 1664.7 | 1706.8 | 1756.9 | 1820.5 | 1852.2 | 1914.2 |
| 25° | 1961.1 | 1944.4 | 1912.6 | 1848.3 | 1782.3 | 1787.9 | 1818.9 | 1864.2 | 1881.6 | 1903.9 | 1971.4 |
| 27.5° | 2112.9 | 2117.6 | 2054.9 | 1994.5 | 1912.6 | 1896.7 | 1952.4 | 1960.3 | 1930.9 | 1973.0 | 1996.1 |
| 30° | 2267.0 | 2263.1 | 2221.7 | 2151.0 | 2070.8 | 2073.9 | 2098.6 | 2059.6 | 2019.1 | 2042.2 | 2058.0 |
| 32.5° | 2426.7 | 2381.5 | 2379.9 | 2316.3 | 2255.1 | 2225.7 | 2195.5 | 2214.6 | 2151.8 | 2156.6 | 2141.5 |
| 35° | 2554.7 | 2561.0 | 2524.5 | 2479.2 | 2449.0 | 2397.3 | 2314.7 | 2348.9 | 2337.0 | 2331.4 | 2266.2 |
| 37.5° | 2647.6 | 2623.0 | 2641.3 | 2626.2 | 2597.6 | 2533.2 | 2447.4 | 2480.0 | 2485.5 | 2512.6 | 2437.1 |
| 40° | 2723.9 | 2713.6 | 2762.1 | 2770.0 | 2750.2 | 2611.1 | 2456.9 | 2553.9 | 2637.3 | 2696.1 | 2606.3 |
| 42.5° | 2760.5 | 2782.7 | 2833.6 | 2894.8 | 2850.3 | 2701.7 | 2506.2 | 2610.3 | 2796.2 | 2889.2 | 2766.8 |
| 45° | 2809.7 | 2781.1 | 2856.6 | 2968.7 | 2969.5 | 2778.0 | 2553.9 | 2686.6 | 2920.2 | 3055.3 | 2876.5 |
| 47.5° | 2759.7 | 2774.0 | 2851.9 | 2994.1 | 3030.7 | 2858.2 | 2682.6 | 2794.7 | 3056.9 | 3176.9 | 2978.2 |
| 50° | 2647.6 | 2676.3 | 2818.5 | 2966.3 | 3076.7 | 2943.2 | 2830.4 | 2911.5 | 3183.2 | 3274.6 | 2994.9 |
| 52.5° | 2530.8 | 2546.7 | 2769.2 | 2987.7 | 3097.4 | 3052.9 | 3028.3 | 3072.8 | 3337.4 | 3385.0 | 3015.6 |
| 55° | 2213.0 | 2288.5 | 2606.3 | 2978.2 | 3198.3 | 3250.8 | 3231.7 | 3296.8 | 3512.2 | 3559.9 | 3128.4 |
| 56° | 2066.0 | 2105.7 | 2508.6 | 2933.7 | 3218.2 | 3323.1 | 3313.5 | 3342.9 | 3605.2 | 3655.2 | 3145.9 |
| 57.5° | 1794.2 | 1797.4 | 2139.1 | 2736.6 | 3143.5 | 3344.5 | 3335.0 | 3358.0 | 3586.9 | 3552.7 | 2992.5 |
| 60° | 1122.8 | 1172.1 | 1455.7 | 2104.9 | 2673.1 | 3103.0 | 3157.0 | 2971.8 | 3024.3 | 2952.0 | 2328.2 |
| 62.5° | 581.7 | 574.5 | 762.8 | 1230.9 | 1774.4 | 2221.7 | 2271.8 | 2263.1 | 2182.0 | 2076.3 | 1520.9 |
| 65° | 290.0 | 291.6 | 398.9 | 609.5 | 909.0 | 1163.3 | 1303.2 | 1318.3 | 1102.9 | 1014.7 | 721.5 |
| 67.5° | 210.6 | 218.5 | 286.9 | 372.7 | 428.3 | 479.2 | 587.2 | 576.1 | 436.2 | 414.8 | 384.6 |
| 70° | 163.7 | 170.8 | 232.8 | 284.5 | 258.2 | 258.2 | 281.3 | 290.8 | 310.7 | 319.4 | 329.8 |
| 72.5° | 119.2 | 124.8 | 178.0 | 196.3 | 169.3 | 182.0 | 210.6 | 232.8 | 253.5 | 256.7 | 268.6 |
| 75° | 81.8 | 86.6 | 116.8 | 108.1 | 101.7 | 125.5 | 154.2 | 174.8 | 189.9 | 197.9 | 205.0 |
| 77.5° | 53.2 | 54.8 | 66.7 | 56.4 | 65.2 | 81.1 | 100.1 | 117.6 | 132.7 | 139.1 | 140.6 |
| 80° | 23.8 | 26.2 | 28.6 | 35.8 | 45.3 | 58.0 | 71.5 | 85.8 | 95.4 | 97.7 | 102.5 |
| 82.5° | 13.5 | 13.5 | 17.5 | 25.4 | 33.4 | 42.1 | 51.6 | 62.0 | 73.1 | 75.5 | 74.7 |
| 85° | 7.2 | 7.2 | 10.3 | 15.1 | 20.7 | 24.6 | 23.8 | 24.6 | 26.2 | 30.2 | 29.4 |
| 87.5° | 2.4 | 2.4 | 3.2 | 3.2 | 4.0 | 4.8 | 4.0 | 5.6 | 7.2 | 7.2 | 7.2 |
| 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-SA2A-830-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1632.1 | 1632.1 | 1632.1 | 1632.1 | 1632.1 | 1632.1 | 1632.1 | 1632.1 | 1632.1 | 1632.1 | 1632.1 |
| 2.5° | 1629.7 | 1636.9 | 1627.4 | 1648.0 | 1648.0 | 1644.1 | 1624.2 | 1630.5 | 1635.3 | 1635.3 | 1639.3 |
| 5° | 1660.7 | 1658.4 | 1664.7 | 1640.1 | 1625.0 | 1619.4 | 1586.8 | 1570.9 | 1557.4 | 1556.6 | 1544.7 |
| 7.5° | 1678.2 | 1671.9 | 1669.5 | 1651.2 | 1584.5 | 1543.9 | 1474.0 | 1433.5 | 1424.7 | 1393.7 | 1405.7 |
| 10° | 1706.0 | 1718.0 | 1706.0 | 1606.7 | 1513.7 | 1420.8 | 1352.4 | 1289.7 | 1265.0 | 1245.2 | 1233.2 |
| 12.5° | 1763.2 | 1757.7 | 1688.6 | 1554.3 | 1423.9 | 1313.5 | 1211.8 | 1145.8 | 1121.2 | 1103.7 | 1102.1 |
| 15° | 1811.7 | 1783.9 | 1678.2 | 1471.6 | 1284.1 | 1166.5 | 1083.1 | 1036.2 | 1025.0 | 1026.6 | 1033.8 |
| 17.5° | 1828.4 | 1809.3 | 1624.2 | 1385.8 | 1180.0 | 1041.7 | 1002.8 | 995.6 | 1006.0 | 1017.9 | 1021.1 |
| 20° | 1854.6 | 1824.4 | 1601.9 | 1269.0 | 1051.3 | 963.9 | 961.5 | 986.9 | 1006.0 | 1023.5 | 1025.8 |
| 22.5° | 1909.5 | 1833.2 | 1529.6 | 1158.5 | 963.1 | 940.8 | 963.9 | 985.3 | 1014.7 | 1029.0 | 1016.3 |
| 25° | 1925.3 | 1814.1 | 1427.9 | 1025.8 | 907.4 | 926.5 | 951.2 | 980.6 | 1001.2 | 1009.2 | 1014.7 |
| 27.5° | 1938.9 | 1784.7 | 1290.5 | 937.6 | 890.0 | 925.7 | 951.2 | 975.8 | 986.9 | 994.1 | 1000.4 |
| 30° | 1977.0 | 1776.0 | 1171.3 | 878.8 | 878.8 | 909.8 | 942.4 | 948.8 | 963.9 | 972.6 | 983.7 |
| 32.5° | 1996.1 | 1715.6 | 1048.9 | 841.5 | 867.7 | 917.8 | 920.2 | 932.1 | 932.9 | 940.0 | 928.1 |
| 35° | 2046.1 | 1672.7 | 935.3 | 814.5 | 872.5 | 909.8 | 921.8 | 914.6 | 875.7 | 856.6 | 860.6 |
| 37.5° | 2082.7 | 1651.2 | 853.4 | 811.3 | 873.3 | 918.6 | 924.9 | 870.9 | 830.4 | 798.6 | 806.5 |
| 40° | 2181.2 | 1598.0 | 791.4 | 805.7 | 880.4 | 928.1 | 910.6 | 851.8 | 778.7 | 746.1 | 740.6 |
| 42.5° | 2256.7 | 1559.8 | 752.5 | 799.4 | 886.0 | 941.6 | 903.5 | 813.7 | 739.0 | 708.8 | 716.7 |
| 45° | 2344.1 | 1551.1 | 731.8 | 801.0 | 895.5 | 948.8 | 894.7 | 784.3 | 704.8 | 692.9 | 690.5 |
| 47.5° | 2375.1 | 1488.3 | 709.6 | 787.5 | 893.1 | 946.4 | 865.3 | 762.0 | 692.1 | 693.7 | 700.1 |
| 50° | 2323.4 | 1423.9 | 692.9 | 759.6 | 877.3 | 924.9 | 819.2 | 732.6 | 685.0 | 704.8 | 715.9 |
| 52.5° | 2257.5 | 1358.0 | 658.7 | 722.3 | 844.7 | 891.6 | 797.8 | 731.0 | 677.8 | 671.4 | 673.8 |
| 55° | 2277.4 | 1304.0 | 611.1 | 671.4 | 792.2 | 829.6 | 774.0 | 715.9 | 660.3 | 636.5 | 644.4 |
| 56° | 2213.0 | 1248.3 | 580.1 | 639.7 | 756.5 | 789.8 | 762.0 | 702.4 | 646.0 | 630.1 | 630.1 |
| 57.5° | 2031.0 | 1061.6 | 539.5 | 588.8 | 681.0 | 720.7 | 739.0 | 694.5 | 630.1 | 602.3 | 603.1 |
| 60° | 1497.8 | 754.9 | 483.9 | 518.9 | 564.2 | 596.0 | 681.0 | 672.2 | 590.4 | 571.3 | 564.2 |
| 62.5° | 923.3 | 551.5 | 444.2 | 457.7 | 480.7 | 507.0 | 594.4 | 608.7 | 548.3 | 527.6 | 522.9 |
| 65° | 517.3 | 421.9 | 414.0 | 419.6 | 430.7 | 444.2 | 493.5 | 525.2 | 483.9 | 452.1 | 450.5 |
| 67.5° | 378.2 | 377.4 | 383.8 | 388.6 | 393.3 | 393.3 | 405.3 | 418.0 | 412.4 | 387.0 | 384.6 |
| 70° | 336.1 | 338.5 | 343.3 | 344.1 | 345.7 | 340.1 | 330.6 | 326.6 | 332.9 | 317.1 | 313.9 |
| 72.5° | 277.3 | 285.3 | 290.8 | 291.6 | 282.9 | 275.7 | 263.0 | 249.5 | 244.7 | 241.6 | 240.8 |
| 75° | 213.0 | 218.5 | 220.9 | 220.1 | 216.9 | 206.6 | 191.5 | 178.0 | 169.3 | 159.7 | 164.5 |
| 77.5° | 143.8 | 151.8 | 155.7 | 155.7 | 151.0 | 135.1 | 127.9 | 117.6 | 108.9 | 98.5 | 100.1 |
| 80° | 100.9 | 106.5 | 112.8 | 112.0 | 104.1 | 96.1 | 85.8 | 76.3 | 69.1 | 61.2 | 60.4 |
| 82.5° | 75.5 | 78.7 | 81.8 | 80.3 | 74.7 | 66.7 | 59.6 | 50.9 | 42.9 | 37.3 | 37.3 |
| 85° | 27.0 | 29.4 | 35.8 | 37.3 | 40.5 | 40.5 | 34.2 | 28.6 | 23.0 | 19.1 | 19.1 |
| 87.5° | 7.9 | 7.9 | 8.7 | 8.7 | 7.9 | 8.7 | 7.2 | 7.9 | 8.7 | 5.6 | 5.6 |
| 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)