

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: P529982

Luminaire Tested: **GLAN-SA5A-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5A-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15265 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

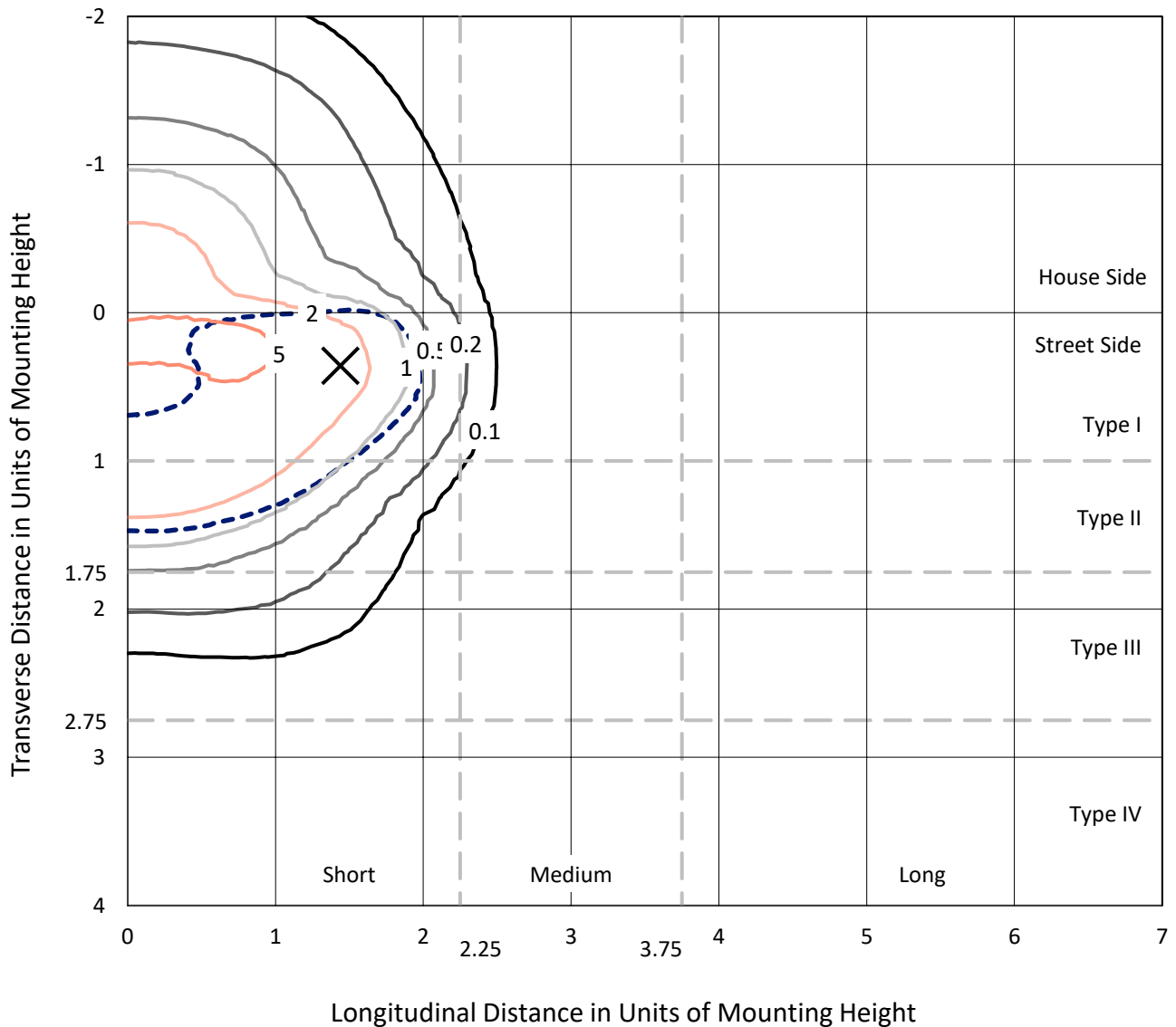
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529982
 CATALOG NUMBER: GLAN-SA5A-830-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

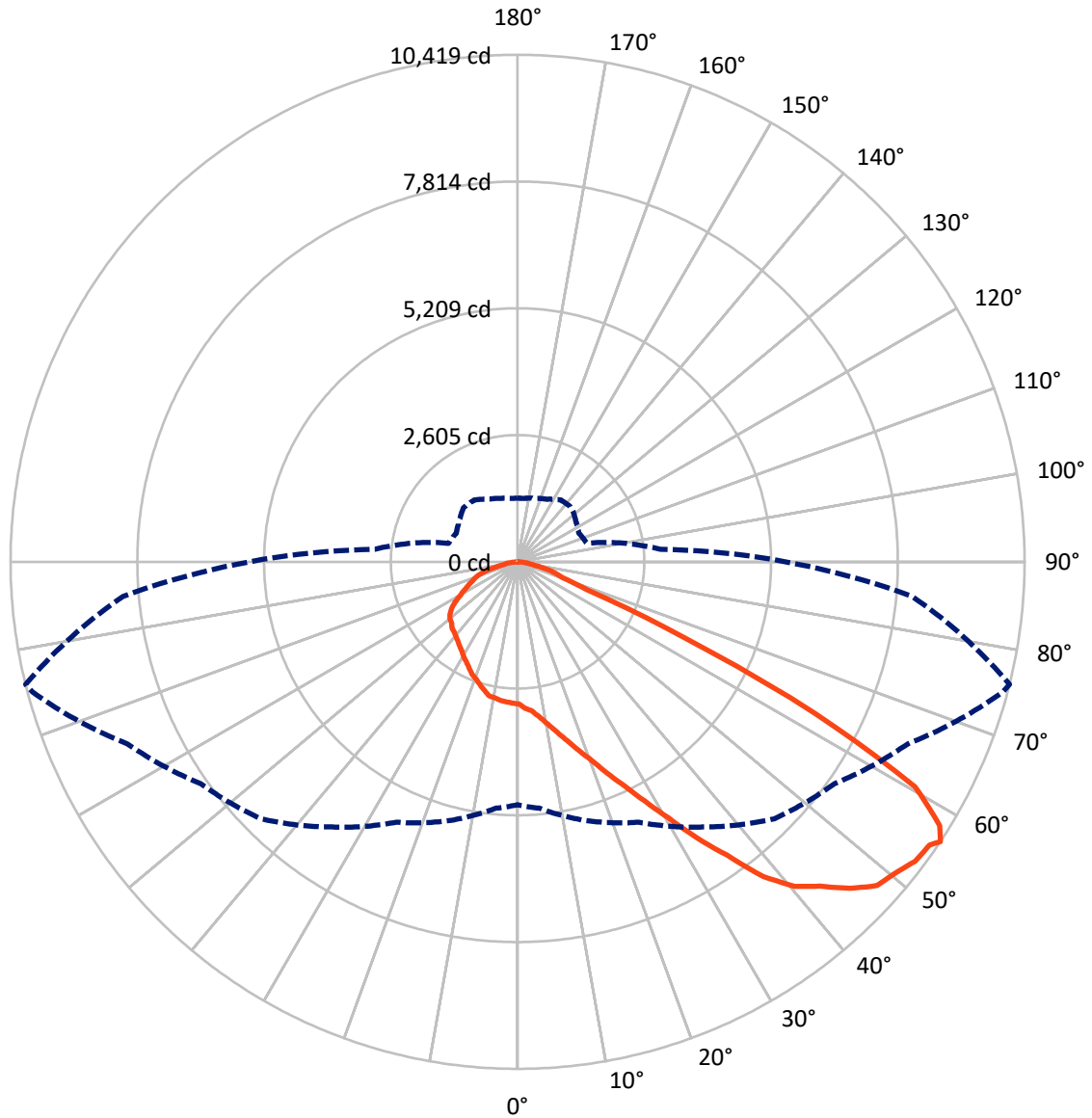
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

REPORT NUMBER: P529982
CATALOG NUMBER: GLAN-SA5A-830-U-T2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P529982
 CATALOG NUMBER: GLAN-SA5A-830-U-T2-GRSWH

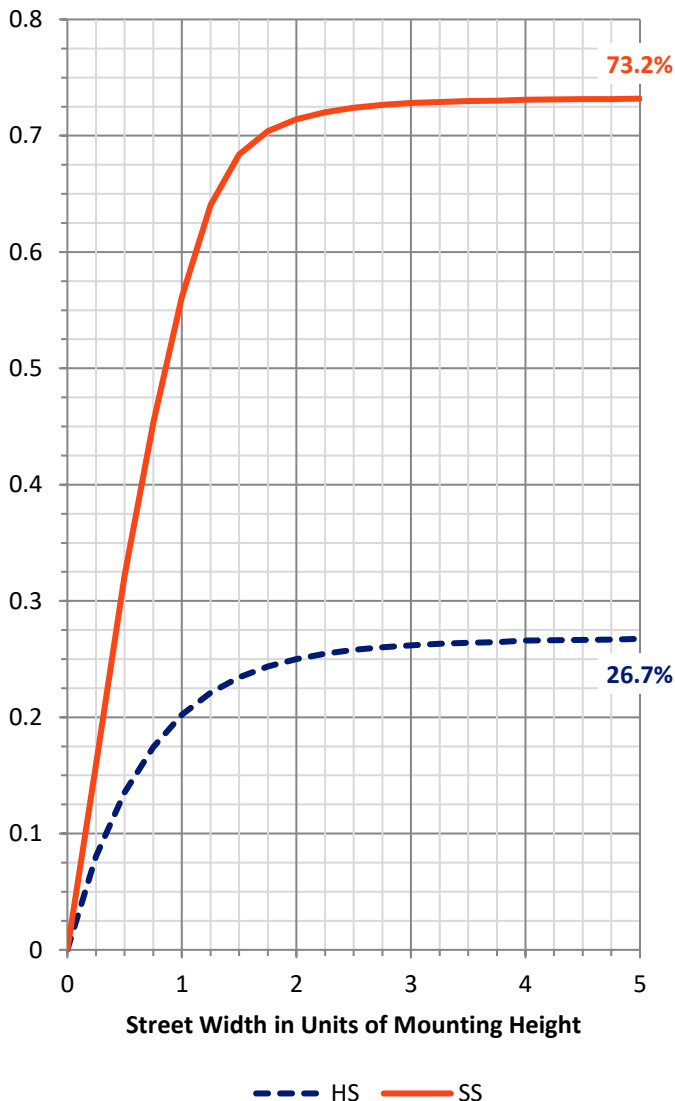
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4104.3 | 0.0 | 4104.3 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| Street Side | Lumens | 11160.7 | 0.0 | 11160.7 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| Total | Lumens | 15265.0 | 0.0 | 15265.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 289.7 | 1.9 |
| 10°-20° | 909.9 | 6.0 |
| 20°-30° | 1591.3 | 10.4 |
| 30°-40° | 2491.5 | 16.3 |
| 40°-50° | 3624.4 | 23.7 |
| 50°-60° | 3983.4 | 26.1 |
| 60°-70° | 1778.0 | 11.6 |
| 70°-80° | 513.6 | 3.4 |
| 80°-90° | 83.3 | 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° | 15265.0 | 100.0 |
| 0°-180° | 15265.0 | 100.0 |

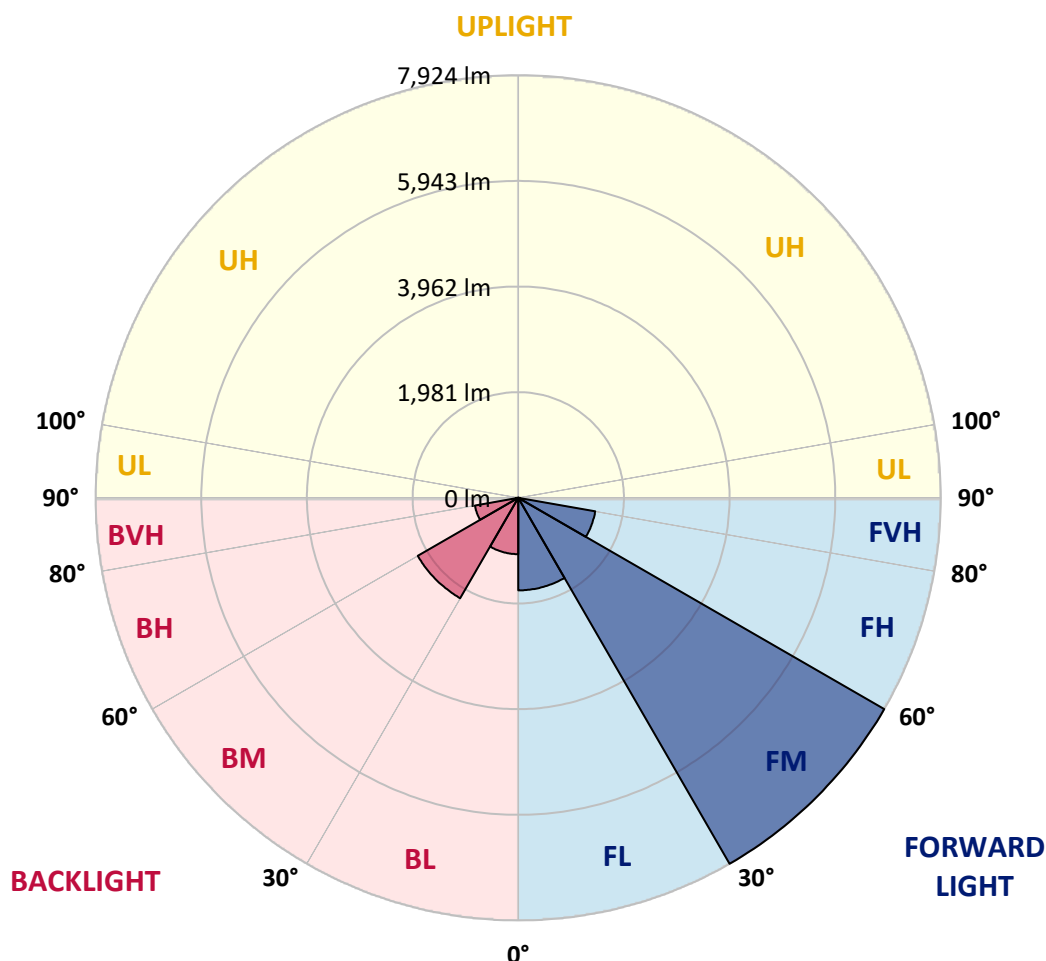


REPORT NUMBER: P529982
 CATALOG NUMBER: GLAN-SA5A-830-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1734.7 | 11.4 | | | |
| FM (30°-60°) | 7924.3 | 51.9 | | | |
| FH (60°-80°) | 1465.8 | 9.6 | | | G1/1800 |
| FVH (80°-90°) | 35.9 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1056.1 | 6.9 | B3/2500 | | |
| BM (30°-60°) | 2174.9 | 14.2 | B2/2500 | | |
| BH (60°-80°) | 825.8 | 5.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 47.4 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2
 Type II Short





REPORT NUMBER: P529982

CATALOG NUMBER: GLAN-SA5A-830-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0° | 2920.8 | 2920.8 | 2920.8 | 2920.8 | 2920.8 | 2920.8 | 2920.8 | 2920.8 | 2920.8 | 2920.8 | 2920.8 |
| 2.5° | 3217.6 | 3166.1 | 3162.2 | 3148.3 | 3156.2 | 3120.6 | 3083.0 | 3033.6 | 2982.1 | 3013.8 | 2938.6 |
| 5° | 3443.2 | 3373.9 | 3401.6 | 3354.1 | 3360.1 | 3312.6 | 3235.4 | 3178.0 | 3114.7 | 3077.1 | 3023.7 |
| 7.5° | 3522.3 | 3528.3 | 3548.1 | 3540.1 | 3500.6 | 3500.6 | 3449.1 | 3348.2 | 3237.4 | 3215.6 | 3126.6 |
| 10° | 3629.2 | 3631.2 | 3609.4 | 3615.3 | 3670.7 | 3645.0 | 3599.5 | 3556.0 | 3413.5 | 3387.8 | 3229.5 |
| 12.5° | 3666.8 | 3631.2 | 3666.8 | 3698.4 | 3763.7 | 3799.4 | 3789.5 | 3757.8 | 3605.4 | 3587.6 | 3356.1 |
| 15° | 3672.7 | 3651.0 | 3680.6 | 3751.9 | 3809.3 | 3959.7 | 4034.8 | 4013.1 | 3811.2 | 3813.2 | 3498.6 |
| 17.5° | 3645.0 | 3674.7 | 3686.6 | 3747.9 | 3880.5 | 4021.0 | 4238.7 | 4268.3 | 4102.1 | 4076.4 | 3678.7 |
| 20° | 3682.6 | 3660.8 | 3676.7 | 3732.1 | 3908.2 | 4127.9 | 4412.8 | 4608.7 | 4375.2 | 4357.4 | 3864.7 |
| 22.5° | 3827.1 | 3797.4 | 3793.4 | 3829.0 | 3955.7 | 4183.3 | 4596.8 | 4949.1 | 4707.7 | 4717.5 | 4096.2 |
| 25° | 3939.9 | 3955.7 | 3941.8 | 3939.9 | 4019.0 | 4266.4 | 4840.2 | 5354.7 | 5158.8 | 5101.4 | 4369.3 |
| 27.5° | 4133.8 | 4171.4 | 4143.7 | 4181.3 | 4163.5 | 4391.0 | 5014.4 | 5803.9 | 5645.6 | 5568.4 | 4616.6 |
| 30° | 4402.9 | 4422.7 | 4397.0 | 4397.0 | 4343.5 | 4565.2 | 5172.7 | 6272.9 | 6207.6 | 6102.7 | 4907.5 |
| 32.5° | 4757.1 | 4786.8 | 4735.4 | 4705.7 | 4697.8 | 4824.4 | 5457.6 | 6736.0 | 6846.8 | 6757.7 | 5293.4 |
| 35° | 5226.1 | 5208.3 | 5147.0 | 5119.2 | 5012.4 | 5222.1 | 5881.1 | 7268.3 | 7559.2 | 7400.8 | 5760.4 |
| 37.5° | 5639.7 | 5612.0 | 5608.0 | 5453.7 | 5479.4 | 5651.6 | 6241.2 | 7671.9 | 8249.8 | 8204.3 | 6253.1 |
| 40° | 6025.6 | 6051.3 | 6092.8 | 6005.8 | 5966.2 | 6156.2 | 6660.8 | 7980.6 | 8786.0 | 8768.2 | 6633.1 |
| 42.5° | 6439.1 | 6415.4 | 6488.6 | 6415.4 | 6356.0 | 6625.1 | 7115.9 | 8194.4 | 9257.0 | 9110.6 | 7030.8 |
| 45° | 7038.7 | 6963.5 | 6989.2 | 6995.2 | 6951.7 | 7050.6 | 7303.9 | 8348.7 | 9587.5 | 9571.6 | 7321.7 |
| 47.5° | 7539.4 | 7541.3 | 7497.8 | 7464.2 | 7331.6 | 7430.5 | 7513.6 | 8445.7 | 9967.4 | 9941.7 | 7434.5 |
| 50° | 7725.4 | 7699.7 | 7826.3 | 7899.5 | 7907.4 | 7705.6 | 7677.9 | 8499.1 | 10167.3 | 10054.5 | 7547.3 |
| 52.5° | 7056.5 | 7080.3 | 7280.1 | 7715.5 | 7966.8 | 7988.6 | 7869.8 | 8609.9 | 10248.4 | 10224.6 | 7638.3 |
| 55° | 5679.3 | 5794.0 | 6122.5 | 6625.1 | 7220.8 | 7875.8 | 8077.6 | 8724.7 | 10291.9 | 10272.1 | 8042.0 |
| 56° | 4992.6 | 5081.7 | 5509.1 | 5902.9 | 6650.9 | 7466.1 | 7947.0 | 8847.4 | 10325.6 | 10418.6 | 8137.0 |
| 57.5° | 4019.0 | 4121.9 | 4428.6 | 4875.9 | 5758.4 | 6686.5 | 7586.9 | 8697.0 | 10195.0 | 10230.6 | 8206.2 |
| 60° | 2513.1 | 2523.0 | 2891.1 | 3185.9 | 3807.3 | 4713.6 | 5790.1 | 7567.1 | 9435.1 | 9383.6 | 7371.2 |
| 62.5° | 1648.4 | 1650.3 | 1984.8 | 2226.2 | 2509.2 | 2716.9 | 3407.6 | 5018.3 | 6961.5 | 6870.5 | 5247.9 |
| 65° | 1157.6 | 1183.3 | 1442.6 | 1765.1 | 1879.9 | 1771.1 | 1749.3 | 2645.7 | 3888.4 | 3757.8 | 2819.8 |
| 67.5° | 846.9 | 848.9 | 1078.5 | 1424.8 | 1591.0 | 1347.6 | 1094.3 | 1292.2 | 1539.5 | 1535.6 | 1306.0 |
| 70° | 560.0 | 583.8 | 759.9 | 1064.6 | 1254.6 | 1082.4 | 894.4 | 924.1 | 979.5 | 979.5 | 971.6 |
| 72.5° | 326.5 | 348.3 | 465.0 | 674.8 | 704.5 | 676.8 | 708.4 | 791.5 | 827.2 | 825.2 | 815.3 |
| 75° | 186.0 | 195.9 | 221.6 | 281.0 | 350.3 | 413.6 | 520.4 | 599.6 | 635.2 | 657.0 | 631.2 |
| 77.5° | 108.8 | 114.8 | 130.6 | 160.3 | 182.1 | 223.6 | 283.0 | 338.4 | 385.9 | 379.9 | 383.9 |
| 80° | 57.4 | 57.4 | 73.2 | 95.0 | 126.6 | 158.3 | 188.0 | 219.7 | 245.4 | 251.3 | 257.2 |
| 82.5° | 33.6 | 35.6 | 47.5 | 69.3 | 91.0 | 112.8 | 144.5 | 166.2 | 190.0 | 191.9 | 195.9 |
| 85° | 17.8 | 19.8 | 29.7 | 45.5 | 61.3 | 69.3 | 71.2 | 67.3 | 73.2 | 69.3 | 79.2 |
| 87.5° | 5.9 | 5.9 | 9.9 | 7.9 | 7.9 | 9.9 | 11.9 | 11.9 | 15.8 | 15.8 | 15.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P529982

CATALOG NUMBER: GLAN-SA5A-830-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2920.8 | 2920.8 | 2920.8 | 2920.8 | 2920.8 | 2920.8 | 2920.8 | 2920.8 | 2920.8 | 2920.8 | 2920.8 |
| 2.5° | 2936.6 | 2936.6 | 2903.0 | 2839.6 | 2829.7 | 2804.0 | 2780.3 | 2778.3 | 2760.5 | 2744.6 | 2736.7 |
| 5° | 2992.0 | 2930.7 | 2881.2 | 2823.8 | 2756.5 | 2724.9 | 2689.2 | 2649.7 | 2633.8 | 2649.7 | 2647.7 |
| 7.5° | 3055.3 | 3003.9 | 2855.5 | 2748.6 | 2671.4 | 2639.8 | 2600.2 | 2558.6 | 2562.6 | 2562.6 | 2534.9 |
| 10° | 3116.7 | 3047.4 | 2809.9 | 2673.4 | 2560.6 | 2536.9 | 2515.1 | 2530.9 | 2550.7 | 2554.7 | 2536.9 |
| 12.5° | 3219.6 | 3063.2 | 2788.2 | 2598.2 | 2527.0 | 2475.5 | 2489.4 | 2532.9 | 2574.5 | 2562.6 | 2576.4 |
| 15° | 3296.7 | 3077.1 | 2689.2 | 2521.0 | 2432.0 | 2455.7 | 2505.2 | 2534.9 | 2604.1 | 2596.2 | 2610.1 |
| 17.5° | 3371.9 | 3085.0 | 2592.3 | 2418.1 | 2380.5 | 2445.8 | 2483.4 | 2568.5 | 2590.3 | 2637.8 | 2655.6 |
| 20° | 3526.3 | 3100.8 | 2493.3 | 2354.8 | 2342.9 | 2418.1 | 2483.4 | 2523.0 | 2570.5 | 2612.1 | 2612.1 |
| 22.5° | 3605.4 | 3092.9 | 2428.0 | 2271.7 | 2309.3 | 2356.8 | 2416.2 | 2483.4 | 2483.4 | 2523.0 | 2525.0 |
| 25° | 3704.4 | 3061.3 | 2325.1 | 2232.1 | 2259.8 | 2305.3 | 2372.6 | 2348.9 | 2374.6 | 2374.6 | 2406.3 |
| 27.5° | 3817.2 | 2994.0 | 2236.1 | 2160.9 | 2216.3 | 2265.8 | 2275.7 | 2259.8 | 2230.1 | 2226.2 | 2214.3 |
| 30° | 3908.2 | 2910.9 | 2170.8 | 2137.1 | 2182.7 | 2210.4 | 2178.7 | 2145.1 | 2093.6 | 2089.7 | 2061.9 |
| 32.5° | 4032.9 | 2808.0 | 2089.7 | 2077.8 | 2129.2 | 2131.2 | 2121.3 | 2069.9 | 1994.7 | 1963.0 | 1931.3 |
| 35° | 4242.6 | 2748.6 | 2028.3 | 2046.1 | 2061.9 | 2056.0 | 2038.2 | 1982.8 | 1907.6 | 1893.7 | 1881.9 |
| 37.5° | 4397.0 | 2705.1 | 1965.0 | 1986.8 | 2000.6 | 2008.5 | 1955.1 | 1893.7 | 1895.7 | 1868.0 | 1860.1 |
| 40° | 4571.1 | 2677.4 | 1913.5 | 1923.4 | 1925.4 | 1951.1 | 1885.8 | 1856.1 | 1870.0 | 1852.2 | 1864.1 |
| 42.5° | 4794.7 | 2685.3 | 1860.1 | 1852.2 | 1889.8 | 1879.9 | 1848.2 | 1808.7 | 1816.6 | 1763.1 | 1771.1 |
| 45° | 4913.4 | 2738.7 | 1828.4 | 1792.8 | 1834.4 | 1832.4 | 1790.8 | 1753.2 | 1705.8 | 1602.9 | 1606.8 |
| 47.5° | 4992.6 | 2752.6 | 1753.2 | 1729.5 | 1773.0 | 1798.8 | 1751.3 | 1664.2 | 1596.9 | 1523.7 | 1505.9 |
| 50° | 5073.7 | 2778.3 | 1717.6 | 1668.2 | 1686.0 | 1747.3 | 1687.9 | 1604.8 | 1539.5 | 1474.2 | 1484.1 |
| 52.5° | 5145.0 | 2827.8 | 1648.4 | 1575.2 | 1606.8 | 1674.1 | 1642.4 | 1541.5 | 1470.3 | 1416.8 | 1401.0 |
| 55° | 5461.6 | 2938.6 | 1531.6 | 1436.6 | 1511.8 | 1596.9 | 1579.1 | 1456.4 | 1379.2 | 1351.5 | 1347.6 |
| 56° | 5511.1 | 2942.5 | 1470.3 | 1389.1 | 1458.4 | 1571.2 | 1549.4 | 1418.8 | 1349.6 | 1306.0 | 1308.0 |
| 57.5° | 5519.0 | 2895.0 | 1383.2 | 1345.6 | 1405.0 | 1533.6 | 1505.9 | 1389.1 | 1294.2 | 1254.6 | 1242.7 |
| 60° | 4856.1 | 2259.8 | 1274.4 | 1250.6 | 1319.9 | 1418.8 | 1408.9 | 1308.0 | 1201.2 | 1155.6 | 1177.4 |
| 62.5° | 3310.6 | 1656.3 | 1189.3 | 1185.3 | 1220.9 | 1317.9 | 1292.2 | 1201.2 | 1112.1 | 1082.4 | 1068.6 |
| 65° | 1927.4 | 1256.6 | 1106.2 | 1090.3 | 1120.0 | 1171.5 | 1189.3 | 1094.3 | 1001.3 | 981.5 | 975.6 |
| 67.5° | 1137.8 | 1038.9 | 999.3 | 973.6 | 963.7 | 995.4 | 1009.2 | 953.8 | 860.8 | 833.1 | 856.8 |
| 70° | 951.8 | 924.1 | 926.1 | 882.6 | 858.8 | 837.0 | 825.2 | 775.7 | 698.5 | 662.9 | 653.0 |
| 72.5° | 821.2 | 809.3 | 801.4 | 761.9 | 740.1 | 690.6 | 639.2 | 589.7 | 532.3 | 502.6 | 504.6 |
| 75° | 627.3 | 623.3 | 627.3 | 607.5 | 569.9 | 530.3 | 482.8 | 419.5 | 376.0 | 338.4 | 346.3 |
| 77.5° | 374.0 | 385.9 | 391.8 | 383.9 | 368.1 | 332.4 | 302.8 | 261.2 | 219.7 | 190.0 | 186.0 |
| 80° | 257.2 | 267.1 | 277.0 | 267.1 | 251.3 | 225.6 | 193.9 | 162.3 | 132.6 | 116.8 | 112.8 |
| 82.5° | 195.9 | 205.8 | 211.7 | 201.8 | 182.1 | 154.3 | 132.6 | 110.8 | 87.1 | 71.2 | 67.3 |
| 85° | 71.2 | 81.1 | 79.2 | 95.0 | 102.9 | 98.9 | 85.1 | 65.3 | 49.5 | 35.6 | 33.6 |
| 87.5° | 19.8 | 17.8 | 19.8 | 19.8 | 19.8 | 17.8 | 15.8 | 15.8 | 15.8 | 9.9 | 7.9 |
| 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)