

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: P653765

Luminaire Tested: **GLAN-SA3A-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P653765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3A-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9497.4 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

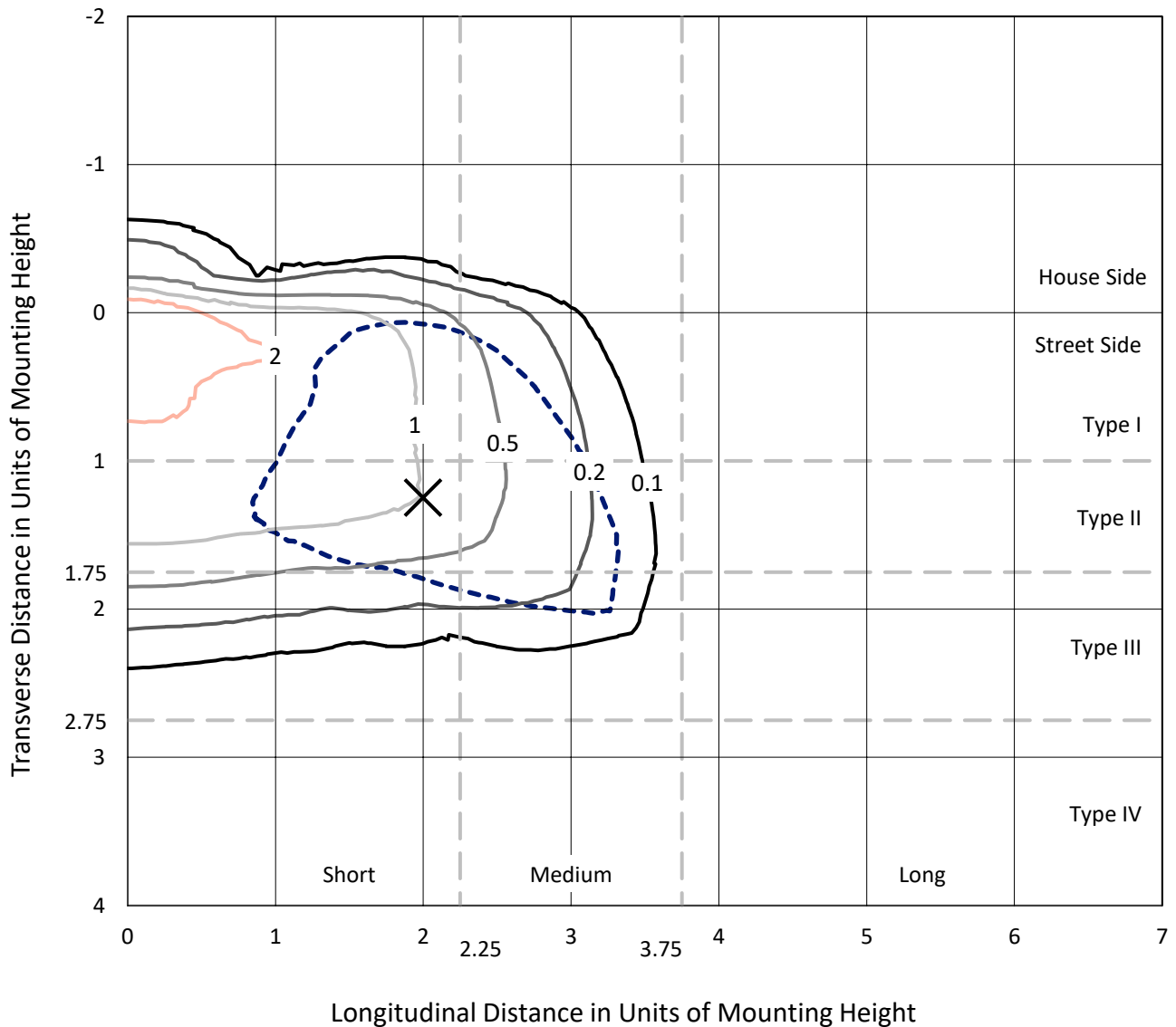
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

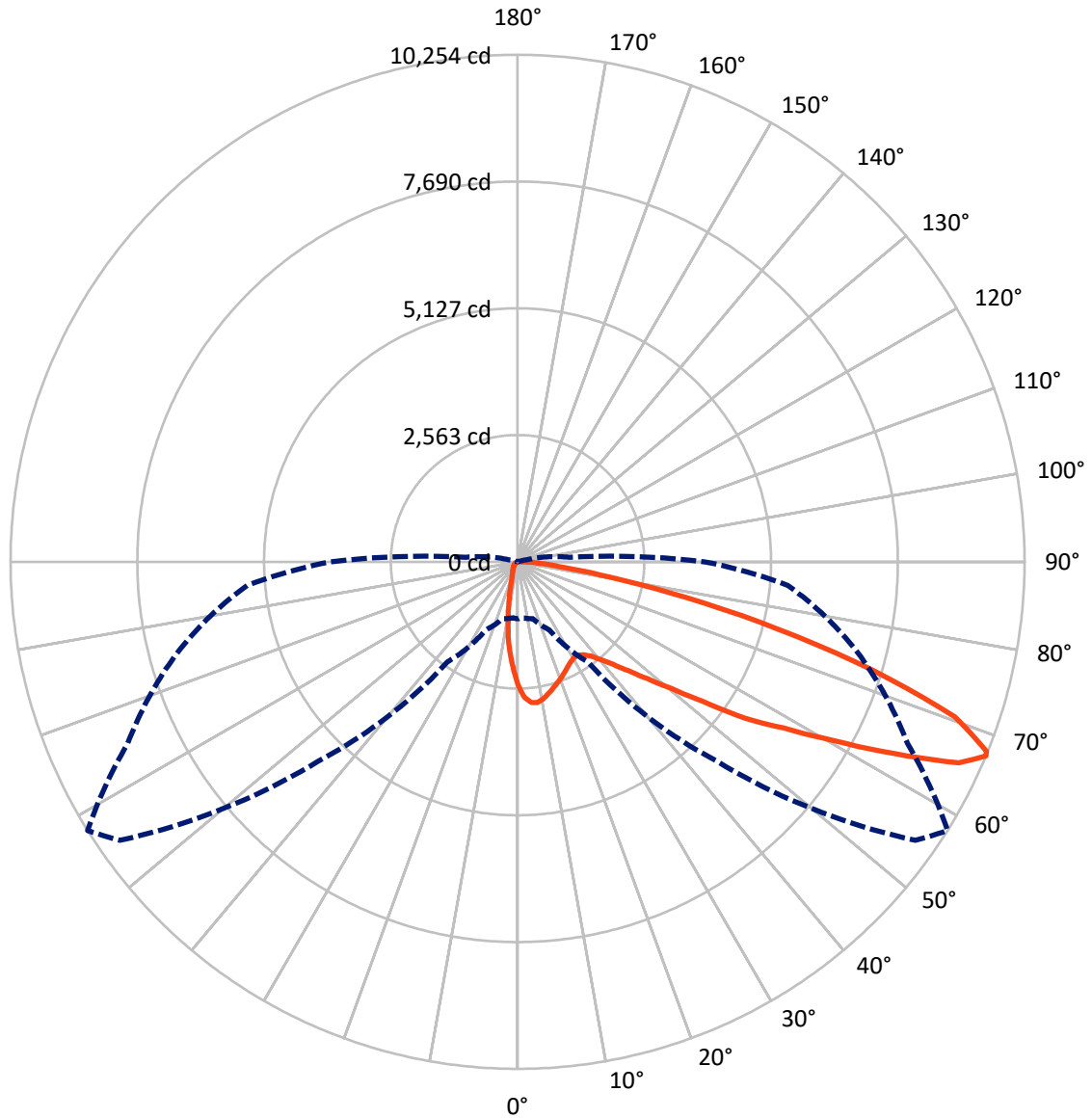
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 685.4 | 0.0 | 685.4 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 8812.0 | 0.0 | 8812.0 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 9497.4 | 0.0 | 9497.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 204.3 | 2.2 |
| 10°-20° | 441.2 | 4.6 |
| 20°-30° | 597.9 | 6.3 |
| 30°-40° | 829.3 | 8.7 |
| 40°-50° | 1322.6 | 13.9 |
| 50°-60° | 2286.2 | 24.1 |
| 60°-70° | 2611.6 | 27.5 |
| 70°-80° | 1088.8 | 11.5 |
| 80°-90° | 115.4 | 1.2 |
| 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° | 9497.4 | 100.0 |
| 0°-180° | 9497.4 | 100.0 |

Coefficient of Utilization



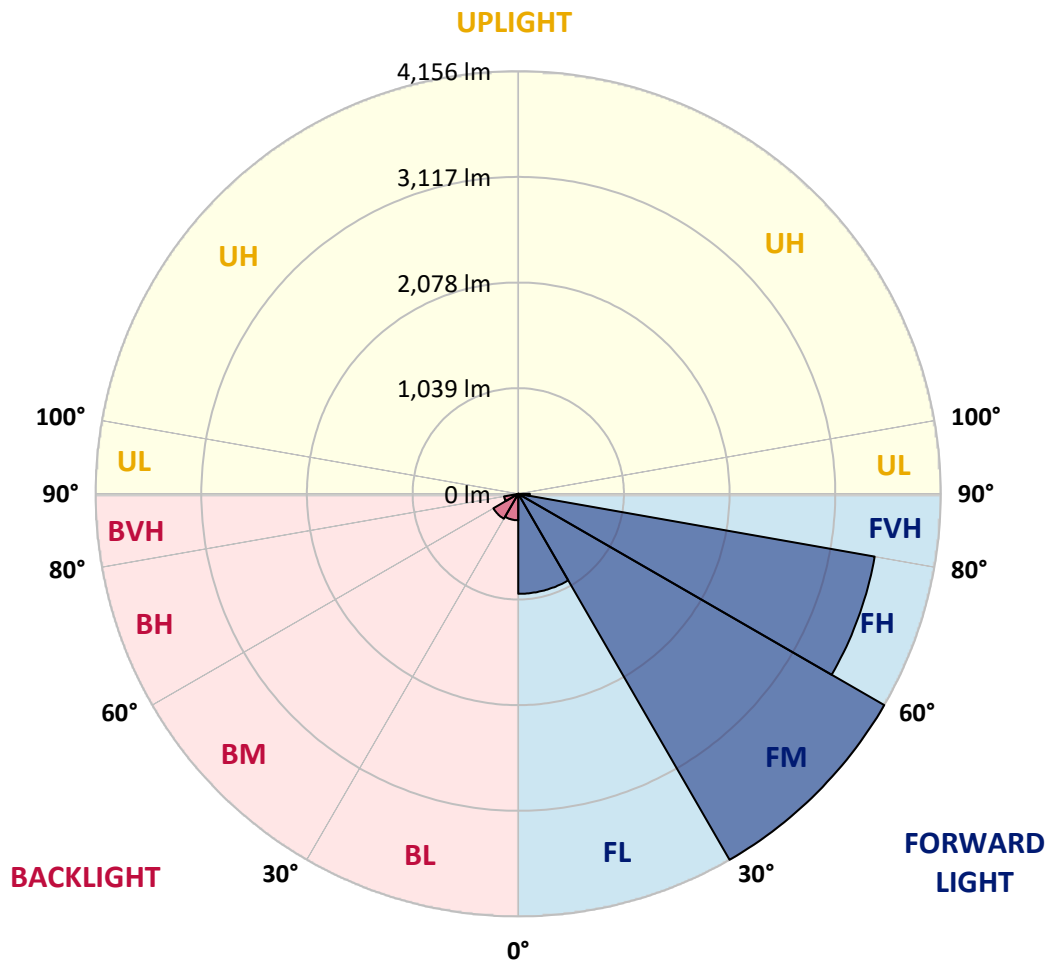
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 983.2 | 10.4 | | | |
| FM (30°-60°) | 4155.5 | 43.8 | | | |
| FH (60°-80°) | 3558.7 | 37.5 | | | G2/5000 |
| FVH (80°-90°) | 114.6 | 1.2 | | | G2/225 |
| BL (0°-30°) | 260.3 | 2.7 | B1/500 | | |
| BM (30°-60°) | 282.6 | 3.0 | B1/1000 | | |
| BH (60°-80°) | 141.7 | 1.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|
| 0° | 2517.7 | 2517.7 | 2517.7 | 2517.7 | 2517.7 | 2517.7 | 2517.7 | 2517.7 | 2517.7 | 2517.7 | 2517.7 |
| 2.5° | 2922.0 | 2926.4 | 2909.9 | 2896.6 | 2862.3 | 2825.5 | 2776.6 | 2750.6 | 2706.2 | 2629.4 | 2544.4 |
| 5° | 2990.5 | 2996.2 | 2993.7 | 2990.5 | 2977.1 | 2941.6 | 2879.4 | 2856.6 | 2791.2 | 2666.2 | 2512.6 |
| 7.5° | 2838.2 | 2859.1 | 2861.7 | 2886.4 | 2909.9 | 2913.1 | 2889.6 | 2872.4 | 2812.1 | 2665.5 | 2456.1 |
| 10° | 2636.4 | 2650.3 | 2670.6 | 2699.2 | 2755.7 | 2802.6 | 2825.5 | 2823.0 | 2788.0 | 2645.9 | 2390.1 |
| 12.5° | 2432.6 | 2440.2 | 2471.4 | 2520.2 | 2589.4 | 2669.3 | 2730.3 | 2742.3 | 2743.0 | 2622.4 | 2334.9 |
| 15° | 2257.5 | 2254.3 | 2278.4 | 2334.9 | 2432.0 | 2532.3 | 2641.4 | 2660.5 | 2690.9 | 2599.5 | 2283.5 |
| 17.5° | 2107.7 | 2124.2 | 2128.0 | 2190.2 | 2279.7 | 2409.8 | 2548.7 | 2582.4 | 2643.3 | 2579.9 | 2240.9 |
| 20° | 2015.0 | 2024.0 | 2032.2 | 2067.1 | 2147.7 | 2284.7 | 2461.9 | 2508.2 | 2598.9 | 2562.1 | 2193.3 |
| 22.5° | 1987.7 | 1993.4 | 1986.4 | 1997.3 | 2054.4 | 2176.3 | 2367.2 | 2428.8 | 2556.4 | 2545.6 | 2154.6 |
| 25° | 2008.6 | 2014.4 | 1997.9 | 1985.2 | 2004.9 | 2088.0 | 2275.9 | 2350.8 | 2522.2 | 2542.4 | 2125.5 |
| 27.5° | 2059.4 | 2070.2 | 2047.4 | 2024.5 | 2013.1 | 2040.4 | 2204.2 | 2291.1 | 2498.6 | 2557.6 | 2112.2 |
| 30° | 2138.7 | 2145.1 | 2128.0 | 2100.1 | 2074.1 | 2046.7 | 2166.8 | 2249.8 | 2492.3 | 2593.2 | 2110.8 |
| 32.5° | 2225.1 | 2238.4 | 2228.9 | 2210.5 | 2176.8 | 2112.2 | 2177.5 | 2251.1 | 2507.5 | 2644.6 | 2126.7 |
| 35° | 2331.8 | 2347.0 | 2355.8 | 2352.0 | 2308.9 | 2228.3 | 2246.1 | 2308.2 | 2548.1 | 2739.1 | 2169.9 |
| 37.5° | 2436.5 | 2449.7 | 2499.9 | 2517.0 | 2478.9 | 2402.8 | 2379.4 | 2420.6 | 2637.6 | 2862.9 | 2247.9 |
| 40° | 2556.4 | 2574.1 | 2644.6 | 2710.0 | 2691.5 | 2611.6 | 2568.4 | 2602.7 | 2774.7 | 3049.6 | 2395.8 |
| 42.5° | 2671.3 | 2703.0 | 2810.3 | 2925.8 | 2942.9 | 2853.4 | 2824.8 | 2836.3 | 2977.8 | 3318.0 | 2602.1 |
| 45° | 2834.3 | 2864.2 | 3002.5 | 3159.3 | 3240.0 | 3170.1 | 3140.9 | 3139.0 | 3256.4 | 3695.6 | 2936.5 |
| 47.5° | 3069.8 | 3096.5 | 3259.5 | 3414.5 | 3557.9 | 3567.4 | 3512.2 | 3531.2 | 3606.7 | 4137.3 | 3346.5 |
| 50° | 3358.6 | 3421.4 | 3528.7 | 3689.9 | 3881.6 | 4036.4 | 4053.5 | 4028.1 | 4092.9 | 4648.9 | 3839.0 |
| 52.5° | 3778.1 | 3802.2 | 3900.6 | 4033.3 | 4257.9 | 4520.6 | 4724.4 | 4689.5 | 4669.1 | 5136.2 | 4336.6 |
| 55° | 4091.0 | 4123.3 | 4276.3 | 4458.5 | 4787.8 | 5134.4 | 5576.1 | 5588.1 | 5331.8 | 5604.7 | 4823.4 |
| 57.5° | 3996.4 | 4046.0 | 4277.6 | 4643.7 | 5367.9 | 6001.3 | 6330.0 | 6338.3 | 5944.8 | 6059.7 | 5373.0 |
| 60° | 3510.9 | 3534.4 | 3866.3 | 4355.0 | 5417.4 | 6940.6 | 7399.5 | 7332.8 | 6568.7 | 6568.7 | 5858.5 |
| 62.5° | 2489.8 | 2526.5 | 2795.7 | 3514.7 | 4892.5 | 7266.8 | 8680.2 | 8542.5 | 7428.0 | 7055.5 | 6147.9 |
| 65° | 1591.1 | 1555.5 | 1733.9 | 2218.7 | 3644.8 | 6785.1 | 9795.3 | 9803.5 | 8236.6 | 7250.3 | 5989.9 |
| 67° | 1152.5 | 1138.5 | 1190.0 | 1516.8 | 2471.4 | 5703.7 | 9818.8 | 10253.5 | 8701.2 | 7127.1 | 5484.7 |
| 67.5° | 1054.2 | 1065.0 | 1102.4 | 1368.3 | 2245.4 | 5190.2 | 9712.1 | 10226.8 | 8805.9 | 7053.0 | 5301.9 |
| 70° | 799.0 | 780.6 | 821.2 | 967.8 | 1346.1 | 3274.2 | 8354.6 | 9379.6 | 8675.8 | 6316.1 | 4236.3 |
| 72.5° | 587.7 | 585.8 | 642.3 | 791.4 | 1036.4 | 1744.1 | 6271.7 | 7520.6 | 7087.9 | 4809.4 | 2667.5 |
| 75° | 396.7 | 414.4 | 504.5 | 661.3 | 939.3 | 1131.0 | 4275.6 | 5456.2 | 4920.5 | 2730.9 | 1090.4 |
| 77.5° | 226.0 | 227.2 | 325.0 | 531.2 | 843.4 | 910.1 | 2533.5 | 3476.0 | 2604.7 | 908.2 | 323.7 |
| 80° | 97.7 | 107.2 | 161.2 | 385.9 | 699.4 | 806.0 | 1452.7 | 1910.3 | 1053.5 | 192.3 | 104.7 |
| 82.5° | 36.2 | 42.6 | 71.1 | 237.3 | 510.2 | 663.9 | 877.8 | 912.0 | 357.3 | 67.9 | 65.3 |
| 85° | 0.0 | 1.3 | 26.0 | 111.1 | 265.9 | 296.4 | 586.4 | 540.8 | 158.0 | 32.4 | 42.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 11.4 | 34.9 | 110.4 | 182.2 | 203.1 | 38.1 | 11.4 | 10.2 |
| 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-SA3A-840-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2517.7 | 2517.7 | 2517.7 | 2517.7 | 2517.7 | 2517.7 | 2517.7 | 2517.7 | 2517.7 | 2517.7 | 2517.7 |
| 2.5° | 2498.6 | 2457.4 | 2354.0 | 2250.5 | 2173.7 | 2109.6 | 2013.1 | 1960.5 | 1932.5 | 1891.2 | 1893.8 |
| 5° | 2435.8 | 2352.0 | 2169.9 | 1981.4 | 1829.1 | 1680.6 | 1502.9 | 1431.1 | 1370.8 | 1336.6 | 1313.7 |
| 7.5° | 2342.5 | 2218.7 | 1949.0 | 1697.7 | 1463.5 | 1204.0 | 1009.1 | 879.0 | 791.4 | 759.1 | 728.0 |
| 10° | 2240.3 | 2075.9 | 1725.0 | 1376.5 | 1051.6 | 783.8 | 618.8 | 499.5 | 456.9 | 417.6 | 421.4 |
| 12.5° | 2145.7 | 1945.8 | 1519.4 | 1086.5 | 736.8 | 498.2 | 388.4 | 339.5 | 325.6 | 321.1 | 321.1 |
| 15° | 2068.4 | 1821.4 | 1298.5 | 816.8 | 505.2 | 357.9 | 311.0 | 297.6 | 292.6 | 291.3 | 291.3 |
| 17.5° | 1985.9 | 1703.4 | 1099.2 | 603.6 | 367.4 | 299.6 | 283.7 | 274.8 | 272.9 | 271.6 | 271.6 |
| 20° | 1912.2 | 1584.7 | 910.1 | 449.3 | 297.0 | 269.7 | 259.5 | 253.9 | 252.0 | 250.7 | 251.3 |
| 22.5° | 1842.4 | 1479.4 | 732.4 | 339.5 | 261.5 | 245.6 | 235.5 | 229.8 | 226.0 | 222.8 | 223.4 |
| 25° | 1780.2 | 1377.8 | 589.0 | 278.0 | 235.5 | 221.5 | 211.3 | 203.1 | 194.9 | 191.0 | 190.4 |
| 27.5° | 1736.4 | 1289.0 | 458.8 | 238.0 | 212.0 | 196.7 | 184.0 | 173.9 | 163.1 | 157.4 | 156.1 |
| 30° | 1700.2 | 1198.8 | 363.1 | 210.1 | 188.5 | 173.9 | 158.0 | 143.4 | 132.0 | 126.3 | 123.8 |
| 32.5° | 1676.8 | 1113.1 | 286.2 | 187.2 | 168.8 | 151.0 | 133.3 | 118.7 | 106.0 | 100.2 | 99.0 |
| 35° | 1672.9 | 1041.5 | 234.2 | 168.2 | 151.0 | 132.0 | 113.6 | 97.7 | 87.0 | 81.2 | 80.0 |
| 37.5° | 1700.2 | 986.2 | 196.1 | 153.0 | 136.4 | 115.5 | 95.2 | 80.6 | 71.1 | 66.6 | 66.0 |
| 40° | 1773.2 | 951.3 | 170.1 | 140.3 | 123.1 | 100.2 | 81.2 | 68.5 | 59.0 | 54.6 | 54.6 |
| 42.5° | 1912.2 | 952.6 | 153.0 | 128.2 | 109.8 | 85.7 | 69.2 | 57.1 | 48.9 | 45.1 | 43.8 |
| 45° | 2129.2 | 995.7 | 138.3 | 116.1 | 97.1 | 74.3 | 59.0 | 46.9 | 38.7 | 35.6 | 35.6 |
| 47.5° | 2420.0 | 1081.4 | 125.6 | 104.1 | 85.7 | 63.5 | 50.1 | 38.1 | 31.1 | 27.9 | 27.9 |
| 50° | 2800.1 | 1219.2 | 114.9 | 93.9 | 76.2 | 54.6 | 40.6 | 31.1 | 24.1 | 21.6 | 20.9 |
| 52.5° | 3197.4 | 1389.2 | 102.2 | 85.0 | 65.3 | 46.3 | 33.0 | 24.1 | 18.4 | 16.5 | 15.9 |
| 55° | 3636.0 | 1555.5 | 90.2 | 76.2 | 53.3 | 38.7 | 26.0 | 19.0 | 13.3 | 11.4 | 11.4 |
| 57.5° | 4078.3 | 1718.7 | 75.5 | 63.5 | 41.9 | 28.6 | 20.3 | 14.0 | 8.9 | 7.0 | 7.0 |
| 60° | 4452.8 | 1771.3 | 64.1 | 51.4 | 31.7 | 20.3 | 14.6 | 8.9 | 5.0 | 3.2 | 3.2 |
| 62.5° | 4504.1 | 1593.6 | 53.9 | 39.4 | 22.9 | 14.0 | 7.7 | 5.0 | 1.9 | 1.3 | 1.3 |
| 65° | 4224.9 | 1294.7 | 45.1 | 29.9 | 15.2 | 7.0 | 3.2 | 1.9 | 0.7 | 0.0 | 0.0 |
| 67° | 3785.7 | 1049.7 | 36.8 | 22.2 | 10.8 | 4.5 | 1.9 | 0.7 | 0.0 | 0.0 | 0.0 |
| 67.5° | 3673.4 | 1000.9 | 35.6 | 20.9 | 9.5 | 3.8 | 1.3 | 0.7 | 0.0 | 0.0 | 0.0 |
| 70° | 2882.6 | 749.5 | 25.4 | 12.7 | 5.7 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1791.7 | 423.9 | 18.4 | 7.7 | 3.8 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 677.2 | 148.5 | 12.7 | 5.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 210.7 | 56.5 | 7.7 | 3.8 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 71.1 | 21.6 | 5.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 43.8 | 8.9 | 3.2 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 27.2 | 3.8 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.0 | 1.3 | 0.7 | 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 |

(END OF REPORT)