

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: P649981

Luminaire Tested: **GLAN-SA6A-835-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6A-835-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18302.6 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

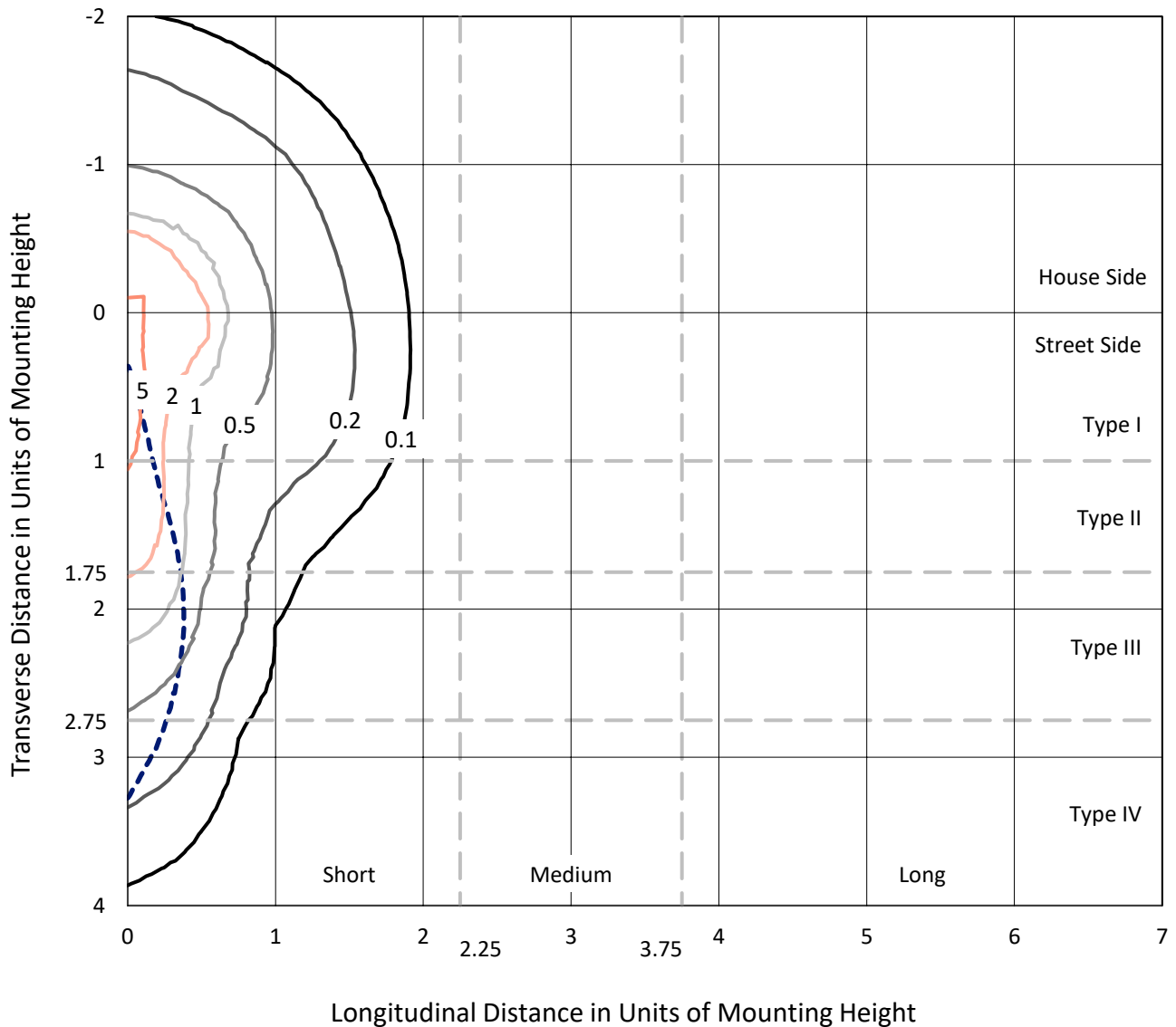
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P649981
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Iso-Footcandle Lines of Horizontal Illumination

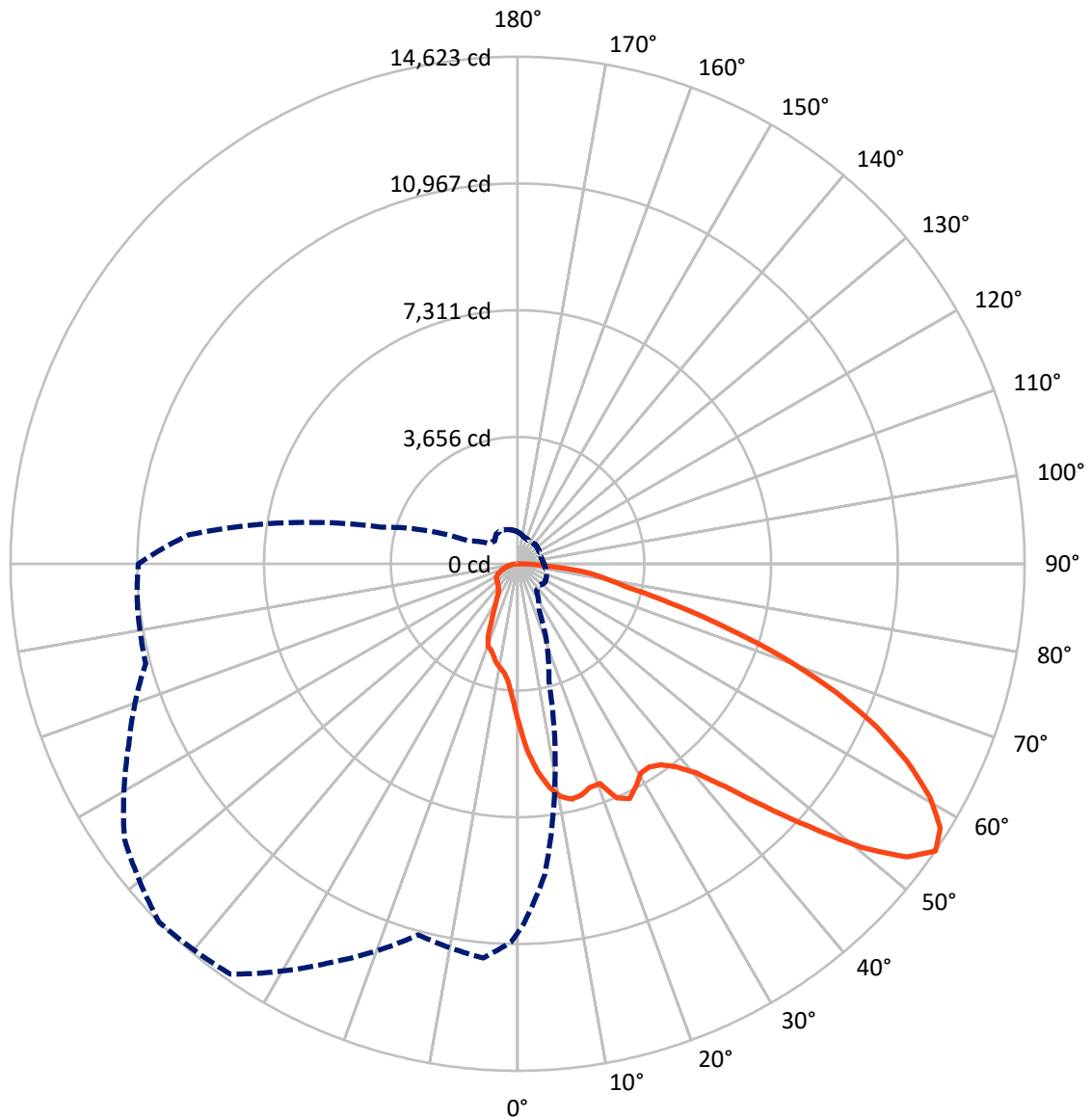
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P649981
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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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 CATALOG NUMBER: GLAN-SA6A-835-U-SLR

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4003.6 | 0.0 | 4003.6 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 14299.0 | 0.0 | 14299.0 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 18302.6 | 0.0 | 18302.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 389.3 | 2.1 |
| 10°-20° | 1032.8 | 5.6 |
| 20°-30° | 1784.2 | 9.7 |
| 30°-40° | 2073.5 | 11.3 |
| 40°-50° | 2893.0 | 15.8 |
| 50°-60° | 3925.5 | 21.4 |
| 60°-70° | 3734.6 | 20.4 |
| 70°-80° | 2017.5 | 11.0 |
| 80°-90° | 452.2 | 2.5 |
| 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° | 18302.6 | 100.0 |
| 0°-180° | 18302.6 | 100.0 |

Coefficient of Utilization

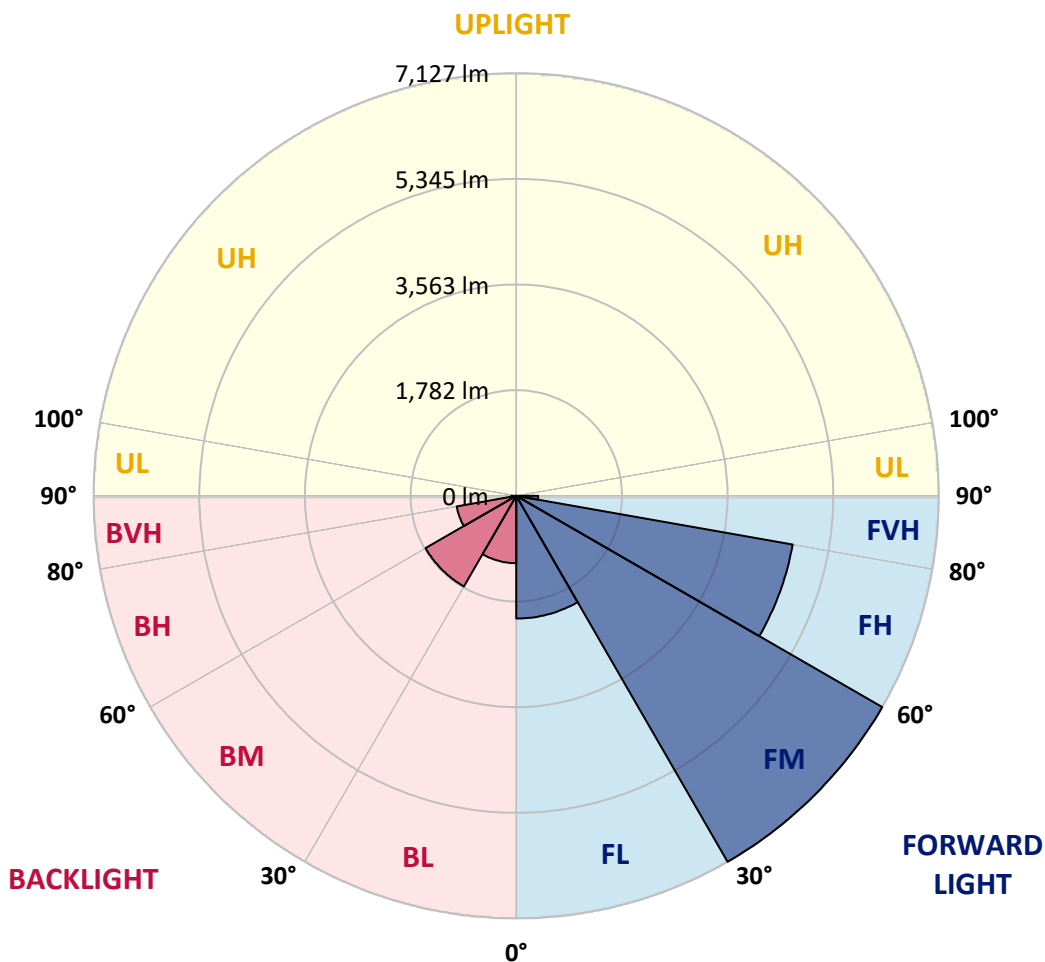


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2070.1 | 11.3 | | | |
| FM (30°-60°) | 7126.7 | 38.9 | | | |
| FH (60°-80°) | 4732.7 | 25.9 | | | G2/5000 |
| FVH (80°-90°) | 369.5 | 2.0 | | | G3/500 |
| BL (0°-30°) | 1136.2 | 6.2 | B3/2500 | | |
| BM (30°-60°) | 1765.3 | 9.6 | B2/2500 | | |
| BH (60°-80°) | 1019.4 | 5.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 82.6 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3
 Type IV Short





REPORT NUMBER: P649981
 CATALOG NUMBER: GLAN-SA6A-835-U-SLR

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4593.2 | 4593.2 | 4593.2 | 4593.2 | 4593.2 | 4593.2 | 4593.2 | 4593.2 | 4593.2 | 4593.2 | 4593.2 |
| 2.5° | 5102.8 | 5083.5 | 5029.1 | 4886.6 | 4742.9 | 4596.8 | 4484.6 | 4344.5 | 4198.4 | 4119.9 | 4019.7 |
| 5° | 5172.8 | 5151.1 | 5023.1 | 4701.9 | 4411.0 | 4105.4 | 3861.5 | 3647.8 | 3560.8 | 3432.8 | 3330.3 |
| 7.5° | 5008.6 | 4999.0 | 4807.0 | 4345.7 | 3947.3 | 3547.5 | 3271.1 | 3099.6 | 2943.8 | 2885.9 | 2898.0 |
| 10° | 4858.9 | 4820.2 | 4579.9 | 3977.4 | 3512.5 | 3187.7 | 2989.7 | 2821.9 | 2712.0 | 2683.0 | 2689.1 |
| 12.5° | 4734.5 | 4682.6 | 4398.8 | 3729.9 | 3323.0 | 3063.4 | 2811.0 | 2635.9 | 2535.7 | 2563.5 | 2657.7 |
| 15° | 4709.2 | 4639.1 | 4322.8 | 3645.4 | 3219.1 | 2884.7 | 2608.2 | 2406.5 | 2331.6 | 2392.0 | 2542.9 |
| 17.5° | 4873.4 | 4785.2 | 4453.2 | 3673.1 | 3120.1 | 2702.4 | 2363.0 | 2132.4 | 2069.6 | 2166.2 | 2363.0 |
| 20° | 5401.1 | 5270.6 | 4860.1 | 3833.7 | 3110.5 | 2611.8 | 2220.6 | 1988.7 | 2015.3 | 2198.8 | 2404.1 |
| 22.5° | 6376.7 | 6181.1 | 5572.5 | 4068.0 | 3161.2 | 2588.8 | 2191.5 | 2070.8 | 2216.9 | 2372.7 | 2507.9 |
| 25° | 6569.9 | 6416.5 | 5700.5 | 4121.1 | 3150.3 | 2573.2 | 2273.7 | 2334.0 | 2497.1 | 2574.3 | 2527.3 |
| 27.5° | 6678.5 | 6503.4 | 5692.0 | 3857.9 | 2817.1 | 2334.0 | 2173.5 | 2273.7 | 2314.7 | 2239.8 | 2111.9 |
| 30° | 6932.1 | 6749.8 | 5835.7 | 3581.4 | 2319.6 | 1731.5 | 1517.8 | 1476.7 | 1504.5 | 1519.0 | 1473.1 |
| 32.5° | 7281.1 | 7101.2 | 6106.2 | 3400.3 | 2005.7 | 1432.1 | 1221.9 | 1164.0 | 1150.7 | 1135.0 | 1116.9 |
| 35° | 7732.7 | 7456.2 | 6371.8 | 3284.4 | 1876.4 | 1324.6 | 1131.4 | 1086.7 | 1068.6 | 1046.9 | 1027.5 |
| 37.5° | 8191.5 | 7901.7 | 6707.6 | 3162.4 | 1790.7 | 1249.7 | 1071.1 | 1050.5 | 1019.1 | 996.1 | 968.4 |
| 40° | 8679.3 | 8354.5 | 7013.0 | 3056.1 | 1707.4 | 1201.4 | 1027.5 | 1025.2 | 984.1 | 957.5 | 925.0 |
| 42.5° | 9102.0 | 8767.5 | 7285.9 | 2990.9 | 1643.4 | 1150.7 | 1001.0 | 1008.3 | 966.0 | 926.1 | 883.9 |
| 45° | 9437.7 | 9109.2 | 7538.3 | 2990.9 | 1591.4 | 1100.0 | 996.1 | 991.4 | 949.1 | 899.6 | 851.3 |
| 47.5° | 9732.3 | 9392.9 | 7784.6 | 3067.0 | 1558.9 | 1057.8 | 969.6 | 978.0 | 934.6 | 871.8 | 824.7 |
| 50° | 9960.5 | 9661.0 | 8116.7 | 3185.3 | 1526.2 | 1023.9 | 935.8 | 981.6 | 922.5 | 857.3 | 803.0 |
| 52.5° | 10251.5 | 9983.4 | 8516.3 | 3347.1 | 1498.5 | 986.5 | 905.6 | 981.6 | 921.3 | 858.5 | 799.4 |
| 55° | 10654.8 | 10372.2 | 8998.2 | 3481.1 | 1453.8 | 951.5 | 879.1 | 953.9 | 917.7 | 852.5 | 789.7 |
| 57.5° | 10937.3 | 10726.0 | 9338.6 | 3570.5 | 1389.8 | 906.8 | 854.9 | 927.3 | 902.0 | 829.5 | 760.7 |
| 58° | 10950.6 | 10744.2 | 9388.2 | 3591.1 | 1374.1 | 898.3 | 848.9 | 915.2 | 894.7 | 819.9 | 751.1 |
| 60° | 10798.4 | 10621.0 | 9397.8 | 3562.0 | 1284.7 | 856.1 | 817.5 | 865.8 | 856.1 | 763.1 | 699.1 |
| 62.5° | 10245.5 | 10055.8 | 9007.8 | 3326.6 | 1166.4 | 804.1 | 769.1 | 799.4 | 777.6 | 683.4 | 624.3 |
| 65° | 9459.3 | 9110.4 | 8206.0 | 2957.1 | 1081.9 | 748.6 | 704.0 | 706.3 | 683.4 | 615.8 | 563.9 |
| 67.5° | 8412.5 | 8022.5 | 6947.8 | 2492.2 | 1017.9 | 687.1 | 626.7 | 620.6 | 592.9 | 549.4 | 507.1 |
| 70° | 7124.1 | 6857.3 | 5646.1 | 2027.3 | 946.6 | 619.4 | 539.7 | 536.1 | 519.2 | 486.6 | 449.2 |
| 72.5° | 5774.2 | 5434.9 | 4559.4 | 1622.8 | 859.7 | 554.2 | 458.8 | 466.1 | 444.4 | 421.4 | 387.6 |
| 75° | 4261.2 | 4039.0 | 3524.6 | 1301.7 | 742.6 | 483.0 | 382.8 | 385.2 | 375.5 | 351.4 | 324.8 |
| 77.5° | 2806.2 | 2739.8 | 2521.2 | 854.9 | 571.1 | 384.0 | 312.7 | 315.2 | 307.9 | 286.2 | 258.4 |
| 80° | 1888.5 | 1843.8 | 1708.6 | 550.6 | 381.6 | 277.7 | 241.5 | 243.9 | 242.7 | 219.8 | 182.4 |
| 82.5° | 1164.0 | 1144.7 | 1101.2 | 371.9 | 264.4 | 199.2 | 159.4 | 166.6 | 179.9 | 154.6 | 124.3 |
| 85° | 549.4 | 550.6 | 665.3 | 202.9 | 155.7 | 128.0 | 86.9 | 92.9 | 92.9 | 92.9 | 70.0 |
| 87.5° | 71.3 | 74.9 | 91.8 | 85.7 | 56.8 | 48.3 | 31.4 | 26.5 | 22.9 | 30.2 | 21.8 |
| 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: P649981
 CATALOG NUMBER: GLAN-SA6A-835-U-SLR

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4593.2 | 4593.2 | 4593.2 | 4593.2 | 4593.2 | 4593.2 | 4593.2 | 4593.2 | 4593.2 | 4593.2 | 4593.2 |
| 2.5° | 3984.7 | 3960.5 | 3908.6 | 3896.5 | 3889.3 | 3909.8 | 3855.5 | 3870.0 | 3845.8 | 3913.4 | 3902.6 |
| 5° | 3336.3 | 3338.7 | 3380.9 | 3408.7 | 3418.3 | 3408.7 | 3372.5 | 3309.7 | 3261.4 | 3242.1 | 3246.9 |
| 7.5° | 2875.0 | 2917.3 | 2989.7 | 3070.6 | 3144.3 | 3166.0 | 3145.5 | 3025.9 | 2895.5 | 2813.4 | 2786.9 |
| 10° | 2721.6 | 2778.4 | 2861.7 | 2925.7 | 2990.9 | 3042.8 | 3053.7 | 2960.8 | 2806.2 | 2611.8 | 2535.7 |
| 12.5° | 2730.1 | 2807.4 | 2887.1 | 2907.6 | 2901.6 | 2922.1 | 2912.4 | 2896.7 | 2795.3 | 2547.8 | 2421.0 |
| 15° | 2650.4 | 2742.1 | 2797.7 | 2786.9 | 2767.5 | 2749.4 | 2724.1 | 2684.2 | 2648.0 | 2474.1 | 2334.0 |
| 17.5° | 2466.8 | 2561.0 | 2606.9 | 2610.6 | 2610.6 | 2605.7 | 2544.1 | 2529.6 | 2524.9 | 2440.3 | 2354.6 |
| 20° | 2500.7 | 2552.6 | 2532.1 | 2498.2 | 2507.9 | 2540.5 | 2504.3 | 2497.1 | 2524.9 | 2562.3 | 2546.6 |
| 22.5° | 2520.0 | 2501.9 | 2347.4 | 2197.6 | 2163.8 | 2265.2 | 2285.7 | 2366.6 | 2479.0 | 2614.2 | 2702.4 |
| 25° | 2400.4 | 2254.3 | 1977.9 | 1808.8 | 1713.4 | 1807.6 | 1930.7 | 2080.5 | 2248.3 | 2422.2 | 2524.9 |
| 27.5° | 2006.8 | 1895.7 | 1697.7 | 1545.6 | 1462.3 | 1476.7 | 1581.8 | 1718.2 | 1874.0 | 1991.2 | 2066.0 |
| 30° | 1511.7 | 1462.3 | 1359.6 | 1307.7 | 1256.9 | 1244.9 | 1289.6 | 1341.5 | 1410.3 | 1424.8 | 1444.2 |
| 32.5° | 1113.3 | 1106.1 | 1112.1 | 1095.2 | 1085.6 | 1084.3 | 1071.1 | 1083.1 | 1090.3 | 1098.8 | 1081.9 |
| 35° | 1007.0 | 997.4 | 980.5 | 975.6 | 969.6 | 972.0 | 966.0 | 960.0 | 964.8 | 972.0 | 976.9 |
| 37.5° | 952.7 | 938.2 | 914.1 | 905.6 | 905.6 | 909.2 | 899.6 | 897.2 | 905.6 | 928.6 | 940.6 |
| 40° | 910.5 | 893.6 | 865.8 | 854.9 | 862.2 | 871.8 | 858.5 | 853.7 | 874.2 | 898.3 | 917.7 |
| 42.5° | 870.6 | 857.3 | 830.8 | 818.7 | 824.7 | 842.8 | 823.5 | 819.9 | 846.4 | 873.0 | 896.0 |
| 45° | 836.8 | 823.5 | 799.4 | 793.3 | 795.8 | 812.6 | 799.4 | 799.4 | 824.7 | 853.7 | 874.2 |
| 47.5° | 810.2 | 793.3 | 777.6 | 772.8 | 775.2 | 784.9 | 782.5 | 782.5 | 806.6 | 836.8 | 857.3 |
| 50° | 783.6 | 769.1 | 748.6 | 751.1 | 757.1 | 770.4 | 769.1 | 772.8 | 796.9 | 834.4 | 856.1 |
| 52.5° | 771.6 | 749.9 | 726.9 | 729.3 | 747.5 | 763.1 | 758.3 | 761.9 | 789.7 | 859.7 | 891.1 |
| 55° | 758.3 | 729.3 | 702.7 | 706.3 | 726.9 | 749.9 | 743.8 | 748.6 | 781.2 | 876.6 | 920.1 |
| 57.5° | 733.0 | 699.1 | 670.2 | 672.6 | 702.7 | 726.9 | 717.2 | 723.3 | 761.9 | 858.5 | 904.4 |
| 58° | 722.1 | 693.1 | 665.3 | 666.5 | 695.5 | 722.1 | 711.2 | 716.1 | 755.9 | 853.7 | 897.2 |
| 60° | 676.2 | 659.3 | 635.2 | 636.3 | 664.1 | 687.1 | 681.1 | 685.8 | 724.5 | 818.7 | 851.3 |
| 62.5° | 613.4 | 603.8 | 597.7 | 597.7 | 614.6 | 636.3 | 642.4 | 648.4 | 683.4 | 740.2 | 769.1 |
| 65° | 545.8 | 545.8 | 547.0 | 547.0 | 557.9 | 585.6 | 589.3 | 604.9 | 637.5 | 665.3 | 687.1 |
| 67.5° | 499.9 | 497.5 | 499.9 | 493.8 | 498.7 | 515.6 | 533.7 | 548.2 | 582.0 | 601.3 | 608.5 |
| 70° | 440.8 | 439.5 | 440.8 | 432.3 | 438.3 | 452.8 | 464.9 | 489.1 | 524.1 | 538.5 | 542.1 |
| 72.5° | 382.8 | 382.8 | 385.2 | 379.1 | 379.1 | 394.9 | 403.3 | 429.9 | 462.4 | 470.9 | 472.1 |
| 75° | 322.4 | 326.0 | 326.0 | 317.6 | 320.0 | 329.6 | 340.5 | 362.2 | 392.4 | 398.5 | 398.5 |
| 77.5° | 256.0 | 269.3 | 269.3 | 260.8 | 264.4 | 265.7 | 280.2 | 291.0 | 314.0 | 316.3 | 306.7 |
| 80° | 186.0 | 199.2 | 210.1 | 202.9 | 208.9 | 201.6 | 210.1 | 217.4 | 240.3 | 229.4 | 213.8 |
| 82.5° | 132.8 | 142.5 | 151.0 | 152.1 | 146.1 | 132.8 | 143.7 | 144.9 | 155.7 | 141.3 | 132.8 |
| 85° | 73.7 | 82.1 | 92.9 | 88.2 | 78.5 | 70.0 | 73.7 | 76.1 | 74.9 | 71.3 | 66.4 |
| 87.5° | 19.3 | 20.5 | 22.9 | 16.9 | 15.7 | 13.3 | 18.1 | 18.1 | 20.5 | 21.8 | 20.5 |
| 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: P649981

CATALOG NUMBER: GLAN-SA6A-835-U-SLR

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 4593.2 | 4593.2 | 4593.2 | 4593.2 | 4593.2 | 4593.2 | 4593.2 | 4593.2 | 4593.2 | 4593.2 | 4593.2 |
| 2.5° | 3911.0 | 3964.2 | 4078.9 | 4165.8 | 4272.0 | 4401.2 | 4553.4 | 4706.8 | 4872.1 | 4924.1 | 4996.6 |
| 5° | 3236.1 | 3368.9 | 3424.4 | 3582.6 | 3739.5 | 3975.0 | 4226.2 | 4517.2 | 4836.0 | 4989.3 | 5136.6 |
| 7.5° | 2765.1 | 2836.3 | 2894.4 | 3010.2 | 3198.6 | 3484.7 | 3799.9 | 4163.4 | 4615.0 | 4838.4 | 5054.5 |
| 10° | 2511.6 | 2518.8 | 2590.0 | 2733.8 | 2898.0 | 3150.3 | 3448.6 | 3855.5 | 4359.0 | 4630.7 | 4884.3 |
| 12.5° | 2343.7 | 2312.4 | 2389.6 | 2539.3 | 2725.3 | 2958.3 | 3232.4 | 3620.0 | 4174.3 | 4453.2 | 4759.9 |
| 15° | 2196.4 | 2146.9 | 2204.8 | 2358.2 | 2541.8 | 2815.8 | 3110.5 | 3521.0 | 4101.8 | 4426.6 | 4767.1 |
| 17.5° | 2200.0 | 2063.6 | 2084.1 | 2213.3 | 2395.7 | 2674.6 | 3032.0 | 3517.4 | 4211.7 | 4586.0 | 4989.3 |
| 20° | 2471.7 | 2253.2 | 2160.1 | 2184.3 | 2360.6 | 2664.9 | 3068.2 | 3686.4 | 4572.7 | 5118.5 | 5549.6 |
| 22.5° | 2738.5 | 2606.9 | 2457.2 | 2407.7 | 2504.3 | 2823.1 | 3298.9 | 4086.1 | 5357.6 | 6179.9 | 6958.7 |
| 25° | 2645.6 | 2757.9 | 2720.5 | 2650.4 | 2672.1 | 2936.6 | 3455.8 | 4414.6 | 5967.3 | 6893.5 | 7625.2 |
| 27.5° | 2116.7 | 2320.7 | 2361.8 | 2360.6 | 2369.0 | 2586.4 | 3108.0 | 4193.6 | 6043.4 | 7029.9 | 7729.1 |
| 30° | 1487.6 | 1505.7 | 1527.5 | 1569.8 | 1608.4 | 1802.8 | 2431.8 | 3681.6 | 6009.6 | 7091.6 | 7791.9 |
| 32.5° | 1073.4 | 1097.6 | 1127.8 | 1185.8 | 1277.5 | 1525.0 | 2127.6 | 3518.6 | 6188.3 | 7346.3 | 7975.4 |
| 35° | 981.6 | 1009.4 | 1038.4 | 1104.8 | 1191.8 | 1421.2 | 2006.8 | 3451.0 | 6481.8 | 7759.2 | 8305.0 |
| 37.5° | 952.7 | 984.1 | 1009.4 | 1057.8 | 1127.8 | 1346.4 | 1897.0 | 3405.1 | 6782.4 | 8196.4 | 8747.0 |
| 40° | 932.2 | 968.4 | 988.9 | 1027.5 | 1075.8 | 1277.5 | 1799.2 | 3368.9 | 7073.4 | 8596.0 | 9102.0 |
| 42.5° | 914.1 | 951.5 | 978.0 | 1005.8 | 1045.7 | 1215.9 | 1712.2 | 3332.6 | 7325.7 | 8983.6 | 9455.7 |
| 45° | 892.3 | 939.4 | 973.2 | 995.0 | 1030.0 | 1164.0 | 1645.8 | 3303.6 | 7613.1 | 9327.8 | 9813.2 |
| 47.5° | 874.2 | 926.1 | 968.4 | 993.8 | 1007.0 | 1127.8 | 1592.7 | 3343.5 | 7958.5 | 9687.6 | 10145.3 |
| 50° | 875.4 | 925.0 | 978.0 | 1017.9 | 982.9 | 1097.6 | 1560.0 | 3501.7 | 8407.7 | 10115.0 | 10407.2 |
| 52.5° | 914.1 | 974.4 | 1016.7 | 1026.4 | 949.1 | 1061.4 | 1543.1 | 3778.2 | 8939.0 | 10493.0 | 10671.7 |
| 55° | 957.5 | 1020.3 | 1066.2 | 1060.2 | 931.0 | 1015.5 | 1539.5 | 4072.9 | 9521.0 | 10933.7 | 11015.8 |
| 57.5° | 941.9 | 1033.6 | 1103.6 | 1072.2 | 932.2 | 970.8 | 1523.9 | 4310.7 | 10007.6 | 11263.4 | 11356.3 |
| 58° | 937.0 | 1028.8 | 1108.5 | 1069.8 | 928.6 | 957.5 | 1520.2 | 4331.2 | 10075.2 | 11286.3 | 11404.6 |
| 60° | 889.9 | 986.5 | 1104.8 | 1051.7 | 908.0 | 921.3 | 1480.3 | 4397.6 | 10057.1 | 11167.9 | 11433.6 |
| 62.5° | 804.1 | 883.9 | 1021.5 | 963.6 | 845.2 | 873.0 | 1391.0 | 4315.5 | 9566.9 | 10598.1 | 11009.8 |
| 65° | 707.6 | 766.7 | 858.5 | 847.7 | 755.9 | 823.5 | 1269.1 | 3990.7 | 8585.1 | 9673.1 | 10106.6 |
| 67.5° | 635.2 | 683.4 | 741.4 | 725.7 | 679.8 | 757.1 | 1137.5 | 3441.3 | 7483.9 | 8562.2 | 9108.0 |
| 70° | 561.5 | 598.9 | 627.9 | 617.0 | 602.5 | 691.9 | 1020.3 | 2792.9 | 6428.6 | 7506.9 | 8035.8 |
| 72.5° | 486.6 | 521.6 | 545.8 | 530.1 | 521.6 | 623.0 | 925.0 | 2167.4 | 5077.4 | 6193.1 | 6872.9 |
| 75° | 406.9 | 441.9 | 458.8 | 440.8 | 435.9 | 549.4 | 783.6 | 1619.2 | 3809.6 | 4774.3 | 5361.2 |
| 77.5° | 315.2 | 352.6 | 374.4 | 368.2 | 370.7 | 451.6 | 632.7 | 1108.5 | 2724.1 | 3254.1 | 3872.4 |
| 80° | 221.0 | 262.0 | 276.5 | 270.4 | 287.4 | 344.1 | 446.8 | 704.0 | 1878.8 | 2111.9 | 2547.8 |
| 82.5° | 136.5 | 175.1 | 177.5 | 183.5 | 195.6 | 254.8 | 336.9 | 428.7 | 1179.7 | 1219.5 | 1535.9 |
| 85° | 68.8 | 83.3 | 89.3 | 99.0 | 109.9 | 155.7 | 192.0 | 265.7 | 759.5 | 574.7 | 858.5 |
| 87.5° | 22.9 | 24.1 | 29.0 | 36.3 | 44.7 | 64.0 | 82.1 | 108.7 | 188.4 | 103.8 | 265.7 |
| 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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| 58° | 11351.5 | 12359.7 | 13556.3 | 14227.7 | 14034.5 | 12523.9 | 11205.4 | 11524.2 | 11154.7 | 10950.6 |
| 60° | 11323.7 | 12022.9 | 13057.6 | 13655.4 | 13452.5 | 12077.2 | 11159.5 | 11433.6 | 10971.2 | 10798.4 |
| 62.5° | 11066.5 | 11438.5 | 12196.7 | 12631.4 | 12573.5 | 11379.3 | 10971.2 | 11091.9 | 10412.1 | 10245.5 |
| 65° | 10728.4 | 10641.5 | 11094.3 | 11402.2 | 11445.7 | 10856.5 | 10783.9 | 10352.9 | 9694.9 | 9459.3 |
| 67.5° | 10317.9 | 9738.3 | 9737.1 | 9912.2 | 9984.7 | 10052.2 | 10393.9 | 9549.9 | 8661.2 | 8412.5 |
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| 77.5° | 5251.3 | 3589.8 | 3221.6 | 3187.7 | 3257.7 | 3842.2 | 5178.8 | 3399.1 | 2899.1 | 2806.2 |
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| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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