

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: P649520

Luminaire Tested: **GLAN-SA7D-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7D-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42603 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

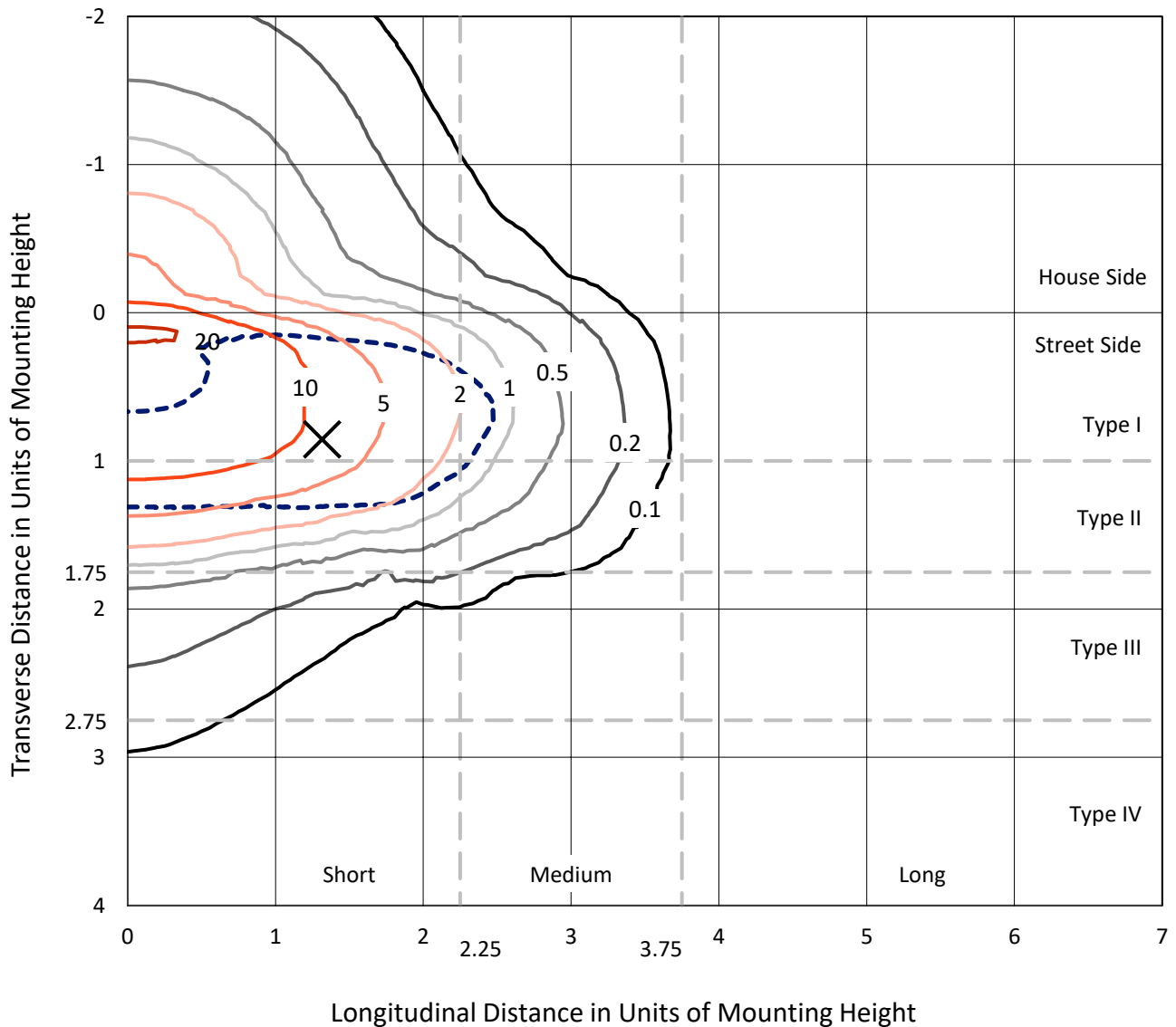
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

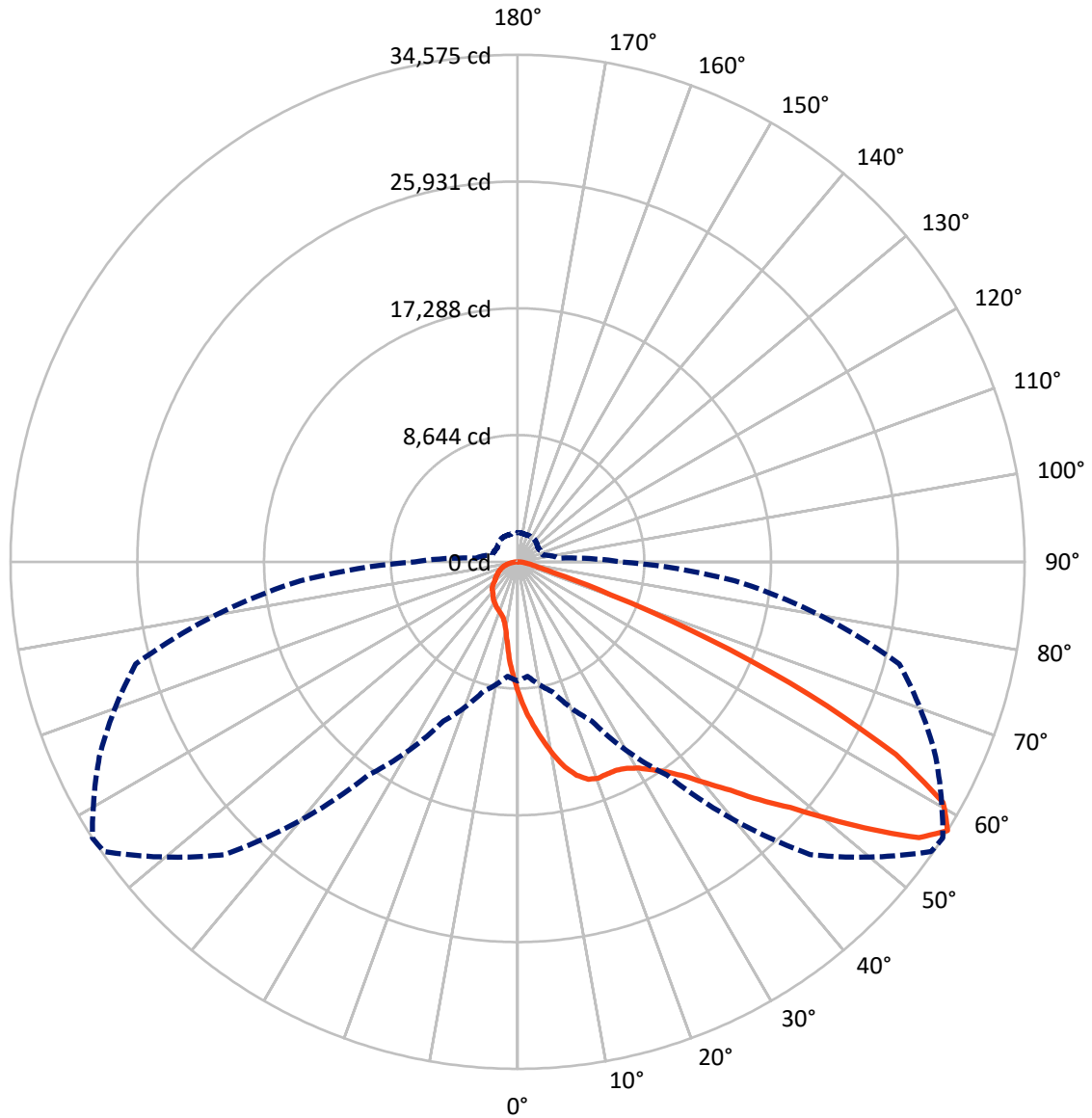
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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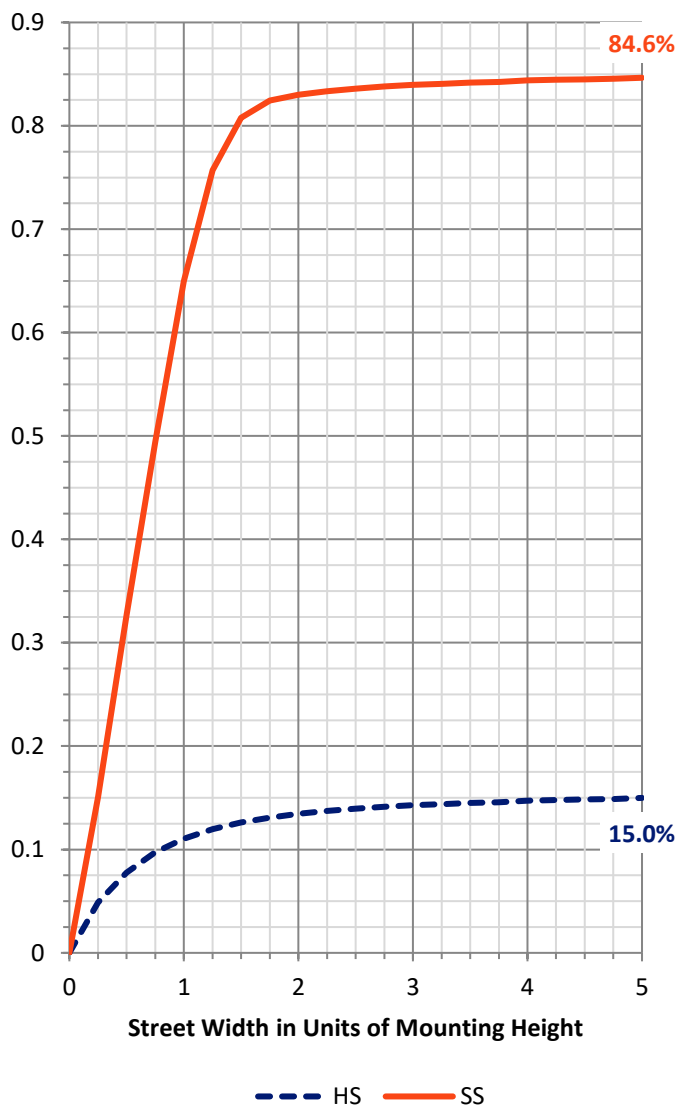
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6478.7 | 0.0 | 6478.7 |
| | % Fixture | 15.2 | 0.0 | 15.2 |
| Street Side | Lumens | 36124.3 | 0.0 | 36124.3 |
| | % Fixture | 84.8 | 0.0 | 84.8 |
| Total | Lumens | 42603.0 | 0.0 | 42603.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 860.2 | 2.0 |
| 10°-20° | 2535.1 | 6.0 |
| 20°-30° | 4209.6 | 9.9 |
| 30°-40° | 6340.9 | 14.9 |
| 40°-50° | 9520.3 | 22.3 |
| 50°-60° | 10671.0 | 25.0 |
| 60°-70° | 6245.2 | 14.7 |
| 70°-80° | 1847.3 | 4.3 |
| 80°-90° | 373.4 | 0.9 |
| 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° | 42603.0 | 100.0 |
| 0°-180° | 42603.0 | 100.0 |

Coefficient of Utilization

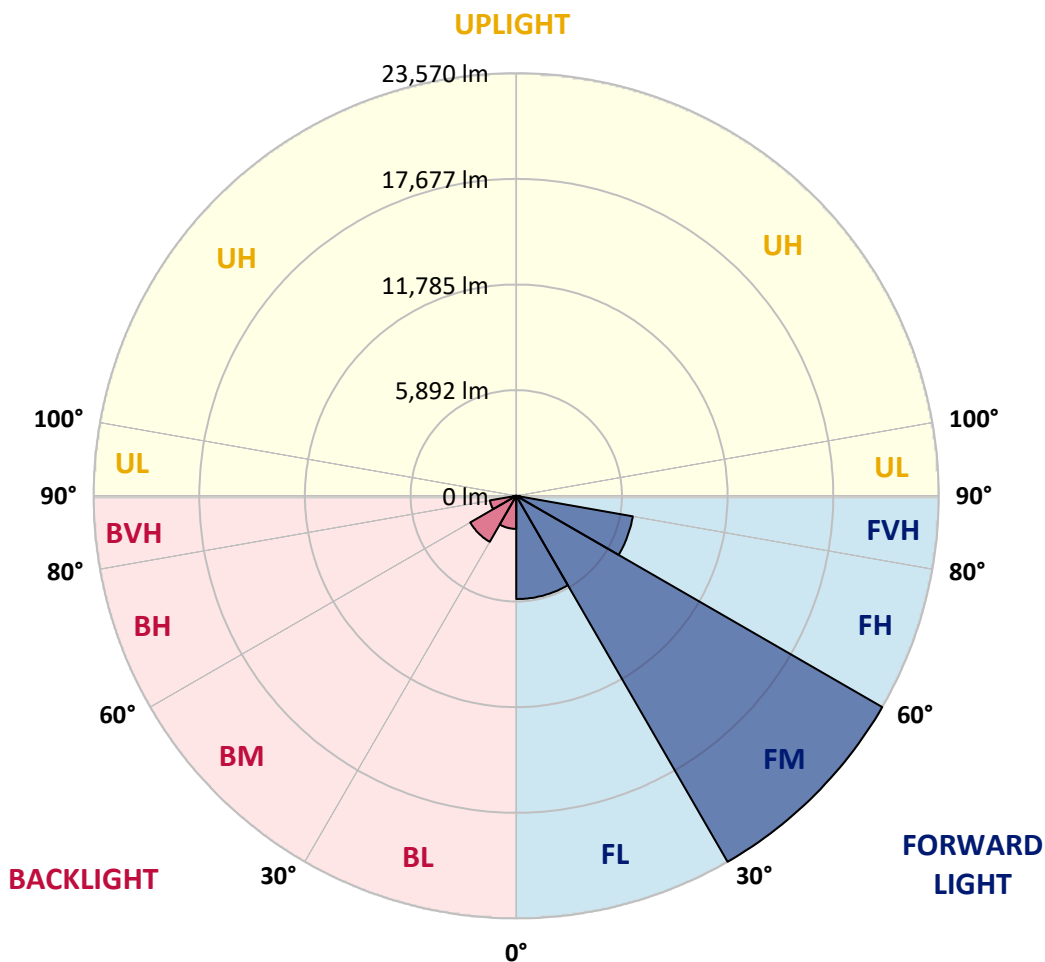


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5758.9 | 13.5 | | | |
| FM (30°-60°) | 23569.9 | 55.3 | | | |
| FH (60°-80°) | 6601.8 | 15.5 | | | G3/7500 |
| FVH (80°-90°) | 193.7 | 0.5 | | | G2/225 |
| BL (0°-30°) | 1846.0 | 4.3 | B3/2500 | | |
| BM (30°-60°) | 2962.3 | 7.0 | B3/5000 | | |
| BH (60°-80°) | 1490.7 | 3.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 179.7 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8950.4 | 8950.4 | 8950.4 | 8950.4 | 8950.4 | 8950.4 | 8950.4 | 8950.4 | 8950.4 | 8950.4 | 8950.4 |
| 2.5° | 11121.6 | 11000.3 | 10904.7 | 10820.7 | 10711.1 | 10414.9 | 10118.8 | 10114.1 | 9878.6 | 9514.8 | 9141.6 |
| 5° | 12933.5 | 12770.3 | 12791.3 | 12530.1 | 12268.9 | 11839.8 | 11212.5 | 11179.8 | 10678.5 | 9997.5 | 9304.9 |
| 7.5° | 14113.6 | 14115.9 | 14050.6 | 13901.4 | 13619.2 | 13131.8 | 12420.5 | 12259.6 | 11562.3 | 10529.2 | 9491.4 |
| 10° | 14053.0 | 14115.9 | 14225.5 | 14353.8 | 14440.1 | 14199.9 | 13551.5 | 13355.6 | 12448.4 | 11172.9 | 9699.0 |
| 12.5° | 13246.0 | 13344.0 | 13500.3 | 13822.1 | 14342.1 | 14738.6 | 14517.0 | 14358.4 | 13474.6 | 11814.1 | 9927.5 |
| 15° | 12742.3 | 12800.6 | 12886.9 | 13103.8 | 13663.5 | 14612.7 | 15186.3 | 15102.3 | 14442.4 | 12539.4 | 10184.1 |
| 17.5° | 12588.4 | 12646.7 | 12674.7 | 12807.6 | 13206.4 | 14178.9 | 15449.8 | 15599.1 | 15300.6 | 13206.4 | 10442.9 |
| 20° | 12742.3 | 12770.3 | 12770.3 | 12849.6 | 13162.1 | 13924.6 | 15438.2 | 15739.0 | 16004.8 | 14006.3 | 10685.4 |
| 22.5° | 13145.8 | 13157.5 | 13141.1 | 13169.1 | 13402.3 | 13994.6 | 15328.6 | 15701.7 | 16573.9 | 14684.9 | 10874.4 |
| 25° | 13801.1 | 13819.7 | 13712.4 | 13647.1 | 13817.4 | 14302.4 | 15389.2 | 15732.0 | 17019.3 | 15333.3 | 11000.3 |
| 27.5° | 14545.0 | 14568.3 | 14437.7 | 14286.1 | 14365.5 | 14682.6 | 15627.0 | 15934.9 | 17352.8 | 15972.2 | 11079.6 |
| 30° | 15456.8 | 15466.1 | 15247.0 | 15065.1 | 15013.7 | 15249.2 | 16032.9 | 16319.7 | 17767.9 | 16725.4 | 11198.5 |
| 32.5° | 16389.7 | 16459.6 | 16177.4 | 15920.9 | 15834.6 | 15906.9 | 16632.2 | 16909.7 | 18262.3 | 17534.7 | 11389.8 |
| 35° | 17658.3 | 17670.0 | 17331.8 | 17019.3 | 16734.8 | 16828.1 | 17399.4 | 17600.0 | 18945.5 | 18469.9 | 11660.3 |
| 37.5° | 19241.8 | 19349.0 | 18882.6 | 18299.6 | 17949.8 | 17814.5 | 18327.6 | 18546.8 | 19904.0 | 19617.2 | 12068.4 |
| 40° | 21000.1 | 21039.8 | 20641.0 | 20277.2 | 19638.2 | 19246.4 | 19600.9 | 19838.7 | 21086.4 | 20986.1 | 12541.8 |
| 42.5° | 22105.5 | 22191.8 | 22222.1 | 22184.8 | 21704.4 | 21046.7 | 21182.0 | 21293.9 | 22485.6 | 22271.1 | 13026.8 |
| 45° | 22478.6 | 22606.9 | 23040.6 | 23959.5 | 24010.8 | 23362.4 | 23047.7 | 23155.0 | 24010.8 | 23567.7 | 13490.9 |
| 47.5° | 21860.7 | 22079.8 | 22879.7 | 24764.0 | 26174.9 | 26223.9 | 25274.8 | 25039.2 | 25400.7 | 24642.8 | 13826.8 |
| 50° | 20263.2 | 20309.8 | 21534.1 | 24262.7 | 27189.4 | 28959.4 | 27977.6 | 27539.2 | 26720.7 | 25438.0 | 14057.6 |
| 52.5° | 17791.2 | 17844.9 | 18870.9 | 21932.9 | 26564.4 | 30871.7 | 31139.8 | 30356.3 | 28061.5 | 26056.0 | 14209.2 |
| 55° | 13206.4 | 13516.5 | 14645.3 | 17604.7 | 23602.7 | 30692.1 | 33653.8 | 33208.4 | 29682.4 | 26545.7 | 14447.1 |
| 57.5° | 8120.2 | 7835.7 | 9174.3 | 11977.4 | 17751.5 | 28224.8 | 34430.4 | 34575.0 | 31466.3 | 26956.2 | 14845.8 |
| 60° | 3735.9 | 3791.9 | 4344.6 | 6177.6 | 10820.7 | 22079.8 | 32429.5 | 33343.7 | 32452.8 | 26942.2 | 14946.1 |
| 62.5° | 2574.6 | 2523.3 | 2383.4 | 2712.2 | 4934.6 | 13964.3 | 27392.2 | 28940.8 | 30475.2 | 26105.0 | 14547.4 |
| 65° | 2301.7 | 2250.4 | 1979.9 | 1889.0 | 2266.8 | 6086.7 | 19913.4 | 21867.6 | 25659.5 | 23992.1 | 13553.9 |
| 67.5° | 2150.1 | 2080.2 | 1800.4 | 1623.1 | 1618.5 | 2423.0 | 11741.9 | 14094.9 | 19031.8 | 20284.2 | 11744.2 |
| 70° | 1991.6 | 1935.6 | 1658.1 | 1462.2 | 1378.2 | 1522.9 | 5160.8 | 6756.0 | 12357.5 | 14617.3 | 9148.7 |
| 72.5° | 1833.0 | 1767.7 | 1518.2 | 1308.3 | 1198.7 | 1140.4 | 1977.5 | 2572.2 | 6982.2 | 8763.9 | 5608.6 |
| 75° | 1602.1 | 1569.4 | 1357.3 | 1184.7 | 1065.7 | 921.1 | 1254.7 | 1431.9 | 3339.5 | 4025.1 | 2814.8 |
| 77.5° | 1401.6 | 1366.6 | 1205.7 | 1035.4 | 949.2 | 748.6 | 890.8 | 972.5 | 1408.5 | 1632.4 | 1271.0 |
| 80° | 1026.1 | 1061.1 | 1016.8 | 914.2 | 846.5 | 587.6 | 599.3 | 667.0 | 837.2 | 925.8 | 776.6 |
| 82.5° | 650.7 | 716.0 | 783.5 | 704.3 | 641.3 | 464.1 | 415.1 | 440.8 | 571.4 | 606.4 | 345.1 |
| 85° | 272.9 | 277.5 | 454.8 | 429.1 | 366.1 | 275.1 | 249.5 | 263.6 | 305.5 | 319.5 | 160.9 |
| 87.5° | 104.9 | 102.6 | 160.9 | 149.2 | 114.2 | 79.3 | 79.3 | 88.6 | 121.3 | 112.0 | 51.3 |
| 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-SA7D-835-U-AFL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8950.4 | 8950.4 | 8950.4 | 8950.4 | 8950.4 | 8950.4 | 8950.4 | 8950.4 | 8950.4 | 8950.4 | 8950.4 |
| 2.5° | 8980.7 | 8815.2 | 8486.3 | 8078.2 | 7779.7 | 7443.9 | 7147.8 | 6935.5 | 6856.3 | 6818.9 | 6749.0 |
| 5° | 8973.7 | 8647.2 | 7966.3 | 7252.7 | 6679.0 | 6091.3 | 5594.6 | 5272.8 | 5244.8 | 5030.2 | 5009.2 |
| 7.5° | 8976.1 | 8477.0 | 7392.6 | 6343.2 | 5468.6 | 4867.0 | 4456.5 | 4349.3 | 4221.0 | 4188.3 | 4204.7 |
| 10° | 8983.0 | 8260.1 | 6776.9 | 5443.0 | 4596.4 | 4202.4 | 4048.4 | 4006.5 | 4011.2 | 4025.1 | 4027.4 |
| 12.5° | 8992.4 | 8050.3 | 6137.9 | 4759.7 | 4106.8 | 3943.5 | 3927.1 | 3964.5 | 4004.1 | 4034.5 | 4041.5 |
| 15° | 9004.0 | 7810.0 | 5515.3 | 4209.3 | 3861.9 | 3847.9 | 3901.5 | 3964.5 | 4020.5 | 4064.8 | 4071.8 |
| 17.5° | 8990.1 | 7530.2 | 4993.0 | 3871.2 | 3726.6 | 3794.3 | 3882.9 | 3962.1 | 4013.4 | 4055.5 | 4060.1 |
| 20° | 8957.4 | 7217.7 | 4489.2 | 3633.4 | 3642.7 | 3752.3 | 3847.9 | 3922.5 | 3978.5 | 3999.5 | 4015.8 |
| 22.5° | 8831.5 | 6844.6 | 4050.8 | 3449.1 | 3542.4 | 3694.0 | 3808.3 | 3852.5 | 3789.6 | 3745.2 | 3756.9 |
| 25° | 8616.9 | 6359.5 | 3642.7 | 3299.9 | 3451.5 | 3612.4 | 3729.0 | 3621.7 | 3570.4 | 3551.7 | 3561.0 |
| 27.5° | 8348.7 | 5827.8 | 3334.8 | 3143.6 | 3334.8 | 3521.4 | 3488.7 | 3470.1 | 3446.8 | 3416.5 | 3423.4 |
| 30° | 8059.6 | 5307.7 | 3073.7 | 3022.3 | 3208.9 | 3316.2 | 3330.2 | 3360.5 | 3334.8 | 3288.2 | 3306.8 |
| 32.5° | 7791.4 | 4818.0 | 2875.4 | 2919.7 | 3120.3 | 3104.0 | 3208.9 | 3243.9 | 3125.0 | 2968.7 | 2975.7 |
| 35° | 7562.8 | 4363.3 | 2726.2 | 2819.4 | 2968.7 | 2975.7 | 3080.6 | 2959.3 | 2831.1 | 2756.5 | 2761.2 |
| 37.5° | 7390.3 | 4008.8 | 2628.2 | 2733.1 | 2775.1 | 2863.7 | 2807.8 | 2744.8 | 2728.5 | 2677.2 | 2679.5 |
| 40° | 7287.7 | 3698.7 | 2565.3 | 2665.6 | 2658.5 | 2719.2 | 2539.6 | 2602.5 | 2625.9 | 2609.6 | 2611.9 |
| 42.5° | 7185.0 | 3479.4 | 2500.0 | 2572.2 | 2569.9 | 2450.9 | 2411.3 | 2465.0 | 2525.6 | 2532.6 | 2527.9 |
| 45° | 7103.5 | 3309.2 | 2432.3 | 2430.0 | 2476.6 | 2290.0 | 2278.5 | 2311.0 | 2397.3 | 2439.4 | 2437.0 |
| 47.5° | 7012.5 | 3166.9 | 2329.7 | 2264.4 | 2278.5 | 2189.8 | 2171.1 | 2185.1 | 2290.0 | 2357.7 | 2376.3 |
| 50° | 6898.2 | 3024.7 | 2201.5 | 2112.8 | 2054.5 | 2096.5 | 2101.2 | 2103.5 | 2208.5 | 2285.4 | 2301.7 |
| 52.5° | 6807.2 | 2917.4 | 2054.5 | 1989.2 | 1919.3 | 2012.5 | 2047.5 | 2052.2 | 2115.2 | 2178.1 | 2189.8 |
| 55° | 6860.9 | 2856.8 | 1910.0 | 1863.3 | 1800.4 | 1926.3 | 1993.9 | 2003.2 | 2017.2 | 2063.8 | 2070.9 |
| 57.5° | 7021.8 | 2870.8 | 1793.4 | 1732.7 | 1686.0 | 1823.7 | 1937.9 | 1944.9 | 1935.6 | 1991.6 | 2000.9 |
| 60° | 7070.8 | 2863.7 | 1707.1 | 1588.2 | 1560.1 | 1714.1 | 1856.3 | 1870.3 | 1868.0 | 1949.6 | 1966.0 |
| 62.5° | 6865.6 | 2775.1 | 1620.8 | 1466.9 | 1448.2 | 1602.1 | 1742.0 | 1798.0 | 1809.7 | 1926.3 | 1947.2 |
| 65° | 6382.9 | 2593.2 | 1506.5 | 1338.6 | 1338.6 | 1483.2 | 1632.4 | 1709.4 | 1742.0 | 1898.3 | 1921.6 |
| 67.5° | 5746.2 | 2378.7 | 1389.9 | 1229.0 | 1224.3 | 1368.9 | 1515.8 | 1595.1 | 1646.4 | 1858.6 | 1872.6 |
| 70° | 4769.0 | 2089.5 | 1245.3 | 1110.1 | 1110.1 | 1240.7 | 1373.5 | 1469.2 | 1543.8 | 1784.0 | 1784.0 |
| 72.5° | 3267.2 | 1737.4 | 1070.4 | 974.8 | 977.1 | 1098.4 | 1233.6 | 1341.0 | 1429.5 | 1634.7 | 1639.4 |
| 75° | 2066.2 | 1357.3 | 879.2 | 830.2 | 839.5 | 953.8 | 1093.7 | 1205.7 | 1382.9 | 1616.1 | 1623.1 |
| 77.5° | 1098.4 | 953.8 | 699.6 | 687.9 | 699.6 | 804.5 | 960.8 | 1114.8 | 1387.6 | 1401.6 | 1378.2 |
| 80° | 711.3 | 676.3 | 552.7 | 529.4 | 534.0 | 648.3 | 855.9 | 1058.8 | 1114.8 | 1128.7 | 1077.4 |
| 82.5° | 387.1 | 429.1 | 391.8 | 368.5 | 368.5 | 506.1 | 729.9 | 841.9 | 799.9 | 664.6 | 634.3 |
| 85° | 165.6 | 200.5 | 202.9 | 177.3 | 170.2 | 312.5 | 489.8 | 459.4 | 426.7 | 408.1 | 403.5 |
| 87.5° | 46.7 | 65.3 | 65.3 | 48.9 | 37.3 | 86.3 | 98.0 | 28.0 | 0.0 | 2.3 | 4.7 |
| 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)