

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: P452942

Luminaire Tested: **GLAN-SA3D-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3D-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18311 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

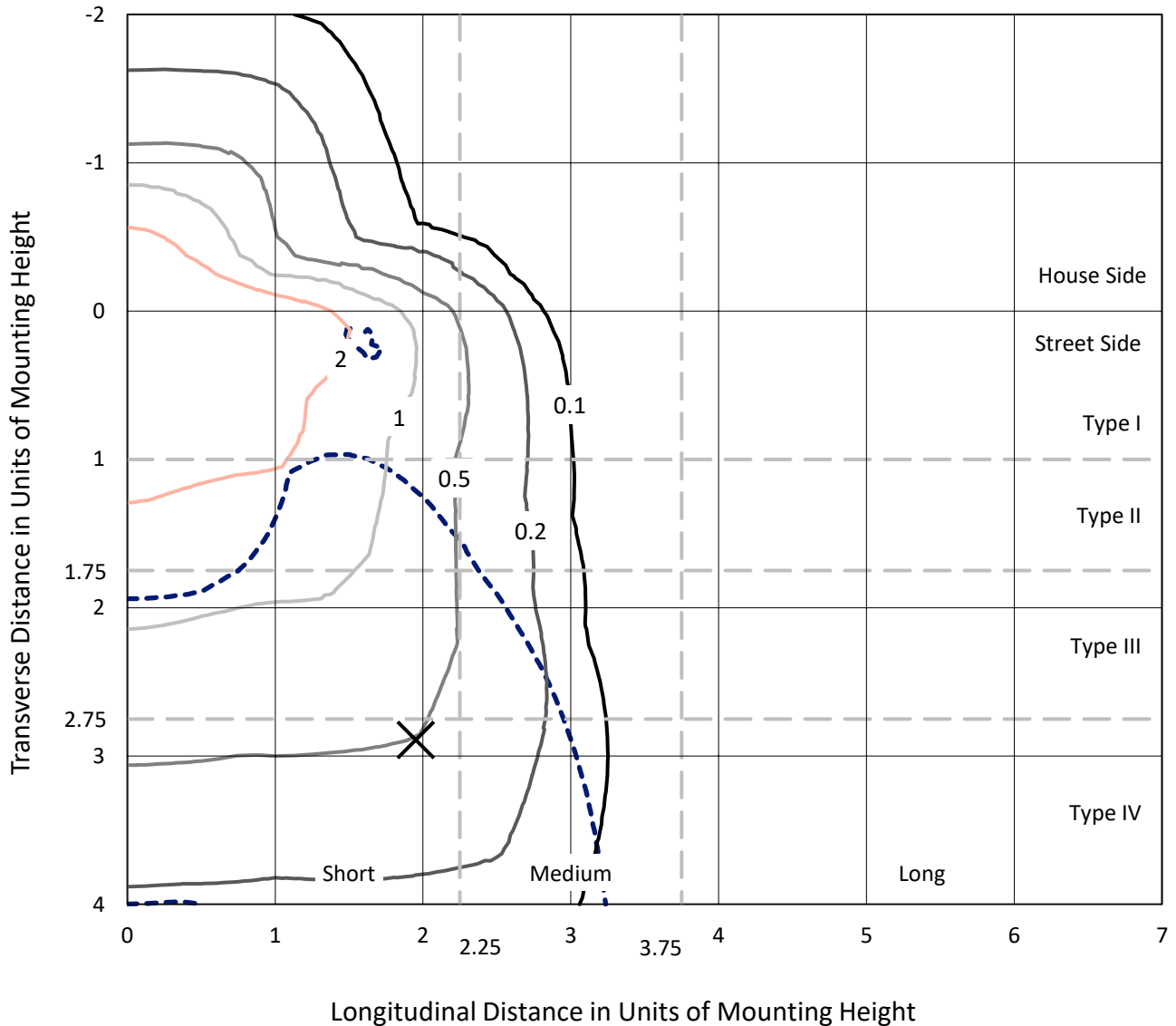
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

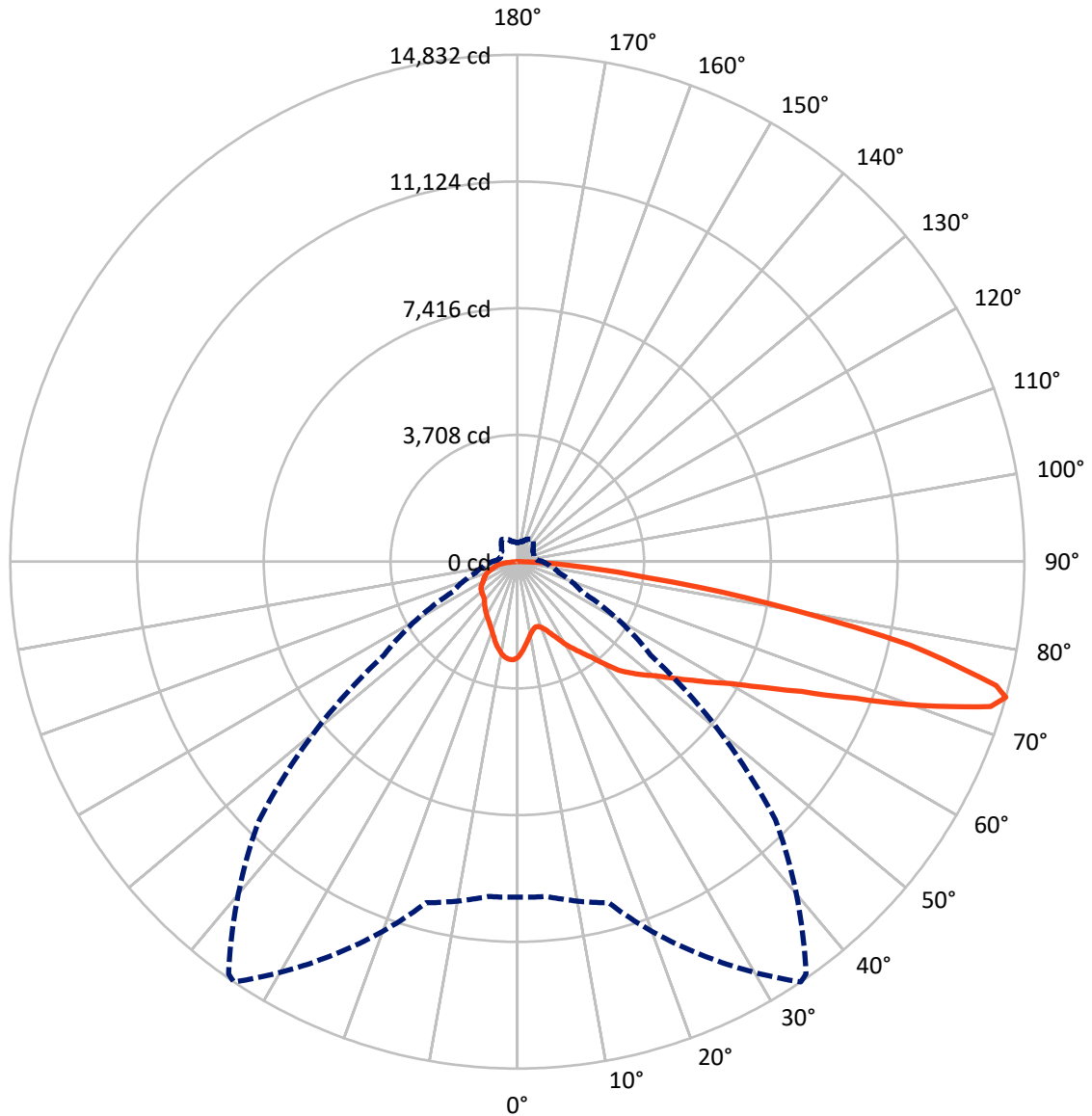
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3896.7 | 0.0 | 3896.7 |
| | % Fixture | 21.3 | 0.0 | 21.3 |
| Street Side | Lumens | 14414.3 | 0.0 | 14414.3 |
| | % Fixture | 78.7 | 0.0 | 78.7 |
| Total | Lumens | 18311.0 | 0.0 | 18311.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 254.3 | 1.4 |
| 10°-20° | 696.0 | 3.8 |
| 20°-30° | 1147.6 | 6.3 |
| 30°-40° | 1718.9 | 9.4 |
| 40°-50° | 2498.8 | 13.6 |
| 50°-60° | 3490.3 | 19.1 |
| 60°-70° | 4369.6 | 23.9 |
| 70°-80° | 3613.3 | 19.7 |
| 80°-90° | 522.1 | 2.9 |
| 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° | 18311.0 | 100.0 |
| 0°-180° | 18311.0 | 100.0 |

Coefficient of Utilization



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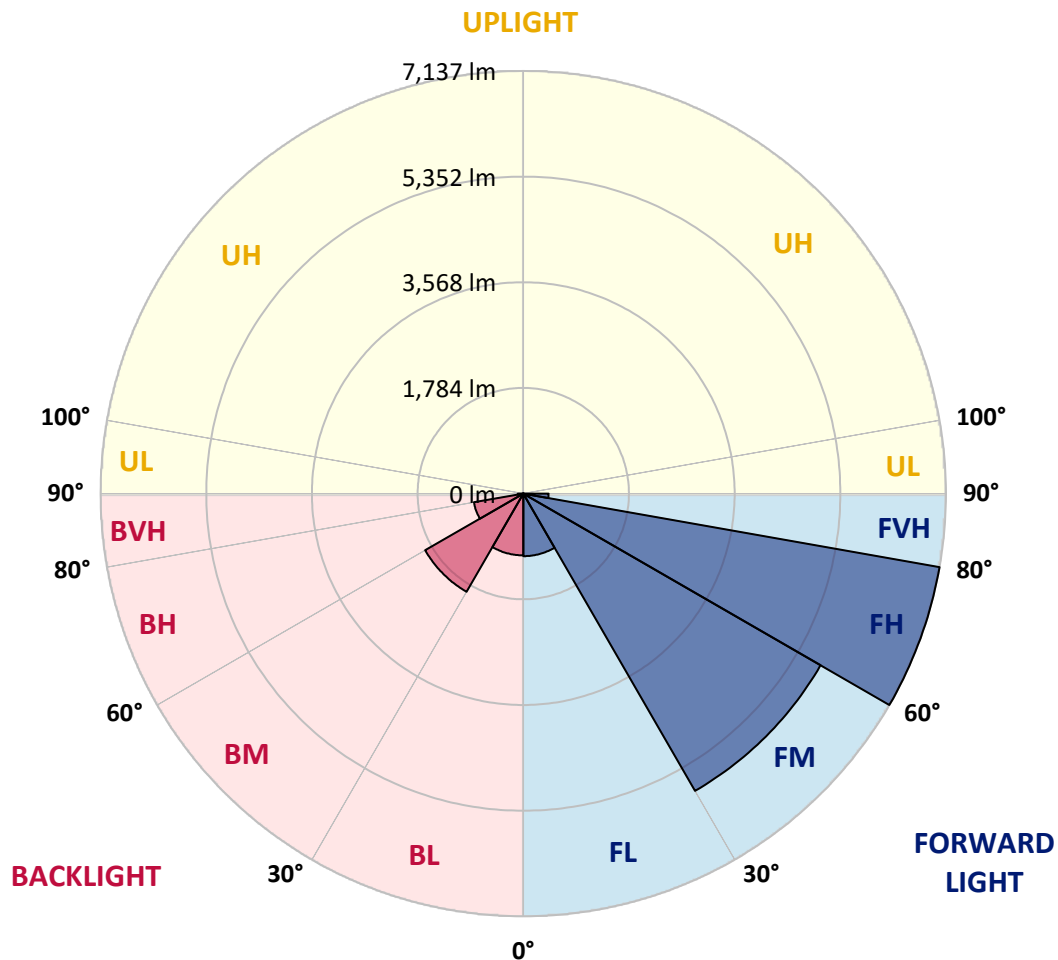
CATALOG NUMBER: GLAN-SA3D-830-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1055.5 | 5.8 | | | |
| FM | (30°-60°) | 5794.4 | 31.6 | | | |
| FH | (60°-80°) | 7136.7 | 39.0 | | | G3/7500 |
| FVH | (80°-90°) | 427.7 | 2.3 | | | G3/500 |
| BL | (0°-30°) | 1042.3 | 5.7 | B3/2500 | | |
| BM | (30°-60°) | 1913.7 | 10.5 | B2/2500 | | |
| BH | (60°-80°) | 846.3 | 4.6 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 94.4 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2795.7 | 2795.7 | 2795.7 | 2795.7 | 2795.7 | 2795.7 | 2795.7 | 2795.7 | 2795.7 | 2795.7 | 2795.7 |
| 2.5° | 2583.7 | 2596.9 | 2604.0 | 2629.4 | 2635.4 | 2643.6 | 2664.9 | 2693.3 | 2729.8 | 2762.3 | 2790.7 |
| 5° | 2368.7 | 2388.9 | 2401.1 | 2423.4 | 2467.1 | 2471.1 | 2527.9 | 2592.8 | 2666.9 | 2735.9 | 2792.7 |
| 7.5° | 2164.8 | 2187.1 | 2197.2 | 2237.8 | 2295.6 | 2304.8 | 2387.9 | 2490.4 | 2614.1 | 2718.6 | 2805.9 |
| 10° | 2011.6 | 2022.7 | 2045.1 | 2075.5 | 2144.5 | 2150.6 | 2259.1 | 2396.0 | 2556.3 | 2710.5 | 2828.2 |
| 12.5° | 1928.4 | 1934.5 | 1939.6 | 1972.0 | 2040.0 | 2049.1 | 2162.7 | 2317.9 | 2510.7 | 2716.6 | 2864.7 |
| 15° | 1940.6 | 1942.6 | 1920.3 | 1926.4 | 1981.2 | 1994.3 | 2106.9 | 2266.2 | 2482.3 | 2731.8 | 2919.5 |
| 17.5° | 2043.0 | 2035.9 | 1981.2 | 1952.7 | 1991.3 | 1997.4 | 2095.8 | 2245.9 | 2469.1 | 2760.2 | 2976.3 |
| 20° | 2204.3 | 2194.2 | 2099.8 | 2036.9 | 2059.3 | 2064.3 | 2132.3 | 2261.1 | 2482.3 | 2806.9 | 3064.5 |
| 22.5° | 2405.2 | 2401.1 | 2258.1 | 2182.0 | 2181.0 | 2181.0 | 2216.5 | 2315.9 | 2521.8 | 2870.8 | 3156.9 |
| 25° | 2686.2 | 2664.9 | 2478.2 | 2379.8 | 2352.4 | 2350.4 | 2346.3 | 2406.2 | 2572.6 | 2938.8 | 3266.4 |
| 27.5° | 2974.3 | 2937.7 | 2771.4 | 2620.2 | 2561.4 | 2554.3 | 2527.9 | 2534.0 | 2637.5 | 3015.9 | 3391.2 |
| 30° | 3232.9 | 3209.6 | 3053.4 | 2886.0 | 2816.0 | 2799.8 | 2726.7 | 2693.3 | 2746.0 | 3154.8 | 3590.0 |
| 32.5° | 3430.8 | 3416.5 | 3294.8 | 3142.7 | 3039.2 | 3036.1 | 2929.6 | 2902.2 | 2915.4 | 3323.2 | 3817.2 |
| 35° | 3591.0 | 3596.1 | 3534.2 | 3402.3 | 3283.7 | 3266.4 | 3195.4 | 3160.9 | 3122.4 | 3566.7 | 4103.3 |
| 37.5° | 3810.1 | 3821.3 | 3817.2 | 3703.6 | 3558.6 | 3562.6 | 3546.4 | 3489.6 | 3387.1 | 3838.5 | 4420.8 |
| 40° | 4051.6 | 4059.7 | 4058.7 | 4015.1 | 3939.0 | 3943.0 | 3936.9 | 3872.0 | 3718.8 | 4184.5 | 4773.8 |
| 42.5° | 4385.3 | 4346.8 | 4246.3 | 4290.0 | 4334.6 | 4353.9 | 4395.5 | 4333.6 | 4123.6 | 4553.7 | 5105.6 |
| 45° | 4758.6 | 4685.6 | 4458.4 | 4478.6 | 4644.0 | 4680.5 | 4909.8 | 4824.6 | 4562.8 | 4977.7 | 5496.1 |
| 47.5° | 4994.0 | 4921.9 | 4730.2 | 4726.2 | 4945.3 | 4980.8 | 5386.5 | 5355.1 | 4962.5 | 5435.2 | 5972.9 |
| 50° | 5203.9 | 5193.8 | 4977.7 | 5029.5 | 5243.5 | 5296.3 | 5905.9 | 5876.5 | 5361.2 | 5974.9 | 6492.3 |
| 52.5° | 5515.4 | 5433.2 | 5260.8 | 5367.3 | 5650.3 | 5719.3 | 6421.2 | 6335.0 | 5727.4 | 6451.7 | 6996.4 |
| 55° | 5655.4 | 5636.1 | 5625.9 | 5718.3 | 6106.8 | 6156.5 | 6922.4 | 6724.6 | 6039.8 | 6855.4 | 7379.9 |
| 57.5° | 6029.7 | 5994.2 | 6094.6 | 6157.5 | 6644.4 | 6720.5 | 7445.8 | 7131.3 | 6313.7 | 7176.0 | 7566.5 |
| 60° | 6514.6 | 6495.3 | 6587.6 | 6701.2 | 7245.0 | 7360.6 | 8042.3 | 7478.3 | 6533.8 | 7337.3 | 7464.1 |
| 62.5° | 7238.9 | 7236.8 | 7219.6 | 7463.1 | 8096.0 | 8202.6 | 8727.0 | 7816.1 | 6568.3 | 7216.5 | 6934.5 |
| 65° | 8277.6 | 8241.1 | 8091.0 | 8356.8 | 9155.1 | 9279.9 | 9440.1 | 8004.7 | 6360.4 | 6596.7 | 5839.0 |
| 67.5° | 9364.1 | 9362.0 | 9240.3 | 9585.2 | 10675.7 | 10804.5 | 10331.8 | 7963.2 | 5783.2 | 5343.9 | 4146.9 |
| 70° | 10264.9 | 10221.2 | 10376.5 | 11295.5 | 12618.3 | 12767.4 | 11111.9 | 7473.2 | 4606.5 | 3529.1 | 2464.0 |
| 72.5° | 10480.9 | 10483.0 | 10805.5 | 12614.2 | 14483.8 | 14507.1 | 11392.9 | 6057.1 | 3082.8 | 1946.7 | 1232.5 |
| 74° | 9815.5 | 9832.7 | 10332.8 | 12680.2 | 14831.8 | 14726.3 | 10674.7 | 4760.6 | 2084.6 | 1271.1 | 888.6 |
| 75° | 8959.3 | 8850.8 | 9574.0 | 12240.9 | 14470.6 | 14357.0 | 9833.7 | 3820.3 | 1590.6 | 1015.4 | 778.1 |
| 77.5° | 4790.1 | 4900.6 | 6016.5 | 9134.8 | 11756.1 | 11625.2 | 6667.7 | 1832.0 | 859.2 | 707.0 | 560.0 |
| 80° | 1705.2 | 1880.7 | 2643.6 | 4779.9 | 7537.1 | 7577.7 | 3182.2 | 839.9 | 604.6 | 521.4 | 395.6 |
| 82.5° | 695.9 | 715.2 | 1135.1 | 2121.1 | 3827.4 | 3863.9 | 1299.5 | 499.1 | 432.1 | 359.1 | 236.4 |
| 85° | 271.9 | 280.0 | 502.1 | 953.6 | 1633.2 | 1739.7 | 449.4 | 263.7 | 265.8 | 205.9 | 120.7 |
| 87.5° | 91.3 | 103.5 | 205.9 | 317.5 | 554.9 | 543.7 | 130.9 | 78.1 | 95.4 | 89.3 | 37.5 |
| 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-SA3D-830-U-T4FT

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2795.7 | 2795.7 | 2795.7 | 2795.7 | 2795.7 | 2795.7 | 2795.7 | 2795.7 | 2795.7 | 2795.7 | 2795.7 |
| 2.5° | 2804.9 | 2824.1 | 2837.3 | 2851.5 | 2864.7 | 2868.8 | 2865.7 | 2874.9 | 2875.9 | 2876.9 | 2877.9 |
| 5° | 2821.1 | 2847.5 | 2872.8 | 2887.0 | 2893.1 | 2888.0 | 2870.8 | 2861.7 | 2853.5 | 2847.5 | 2849.5 |
| 7.5° | 2843.4 | 2880.9 | 2904.3 | 2910.4 | 2894.1 | 2870.8 | 2828.2 | 2794.7 | 2773.4 | 2759.2 | 2758.2 |
| 10° | 2877.9 | 2914.4 | 2933.7 | 2916.4 | 2871.8 | 2815.0 | 2748.1 | 2685.2 | 2637.5 | 2623.3 | 2622.3 |
| 12.5° | 2921.5 | 2963.1 | 2962.1 | 2911.4 | 2833.3 | 2731.8 | 2623.3 | 2550.2 | 2485.3 | 2452.9 | 2466.0 |
| 15° | 2978.3 | 3009.8 | 2980.4 | 2889.1 | 2765.3 | 2626.3 | 2492.4 | 2393.0 | 2320.0 | 2285.5 | 2287.5 |
| 17.5° | 3044.3 | 3071.6 | 2993.5 | 2849.5 | 2669.9 | 2491.4 | 2336.2 | 2241.9 | 2184.0 | 2158.7 | 2156.6 |
| 20° | 3126.4 | 3134.5 | 2993.5 | 2780.5 | 2547.2 | 2334.2 | 2186.1 | 2120.1 | 2087.7 | 2074.5 | 2078.5 |
| 22.5° | 3214.7 | 3198.5 | 2977.3 | 2683.1 | 2385.9 | 2169.8 | 2070.4 | 2041.0 | 2024.8 | 2022.7 | 2024.8 |
| 25° | 3314.1 | 3268.4 | 2943.8 | 2551.3 | 2217.5 | 2027.8 | 1970.0 | 1975.1 | 1978.1 | 1978.1 | 1985.2 |
| 27.5° | 3435.8 | 3344.5 | 2888.0 | 2384.9 | 2020.7 | 1895.9 | 1879.7 | 1915.2 | 1931.4 | 1934.5 | 1939.6 |
| 30° | 3596.1 | 3427.7 | 2795.7 | 2176.9 | 1853.3 | 1777.3 | 1805.7 | 1853.3 | 1871.6 | 1882.8 | 1880.7 |
| 32.5° | 3786.8 | 3519.0 | 2671.0 | 1969.0 | 1718.4 | 1694.1 | 1728.6 | 1777.3 | 1797.5 | 1803.6 | 1795.5 |
| 35° | 4011.0 | 3622.5 | 2506.6 | 1774.2 | 1600.7 | 1614.9 | 1655.5 | 1670.7 | 1689.0 | 1689.0 | 1693.1 |
| 37.5° | 4252.4 | 3705.7 | 2305.8 | 1595.7 | 1509.4 | 1561.2 | 1590.6 | 1576.4 | 1568.3 | 1558.1 | 1563.2 |
| 40° | 4497.9 | 3767.5 | 2045.1 | 1419.2 | 1418.2 | 1505.4 | 1513.5 | 1472.9 | 1440.5 | 1430.3 | 1425.3 |
| 42.5° | 4712.0 | 3806.1 | 1809.7 | 1282.2 | 1331.9 | 1450.6 | 1456.7 | 1391.8 | 1340.0 | 1309.6 | 1299.5 |
| 45° | 4964.5 | 3850.7 | 1579.4 | 1168.6 | 1251.8 | 1407.0 | 1422.2 | 1335.0 | 1258.9 | 1195.0 | 1178.8 |
| 47.5° | 5310.5 | 3952.2 | 1397.9 | 1080.4 | 1194.0 | 1379.6 | 1400.9 | 1288.3 | 1187.9 | 1104.7 | 1091.5 |
| 50° | 5701.0 | 4091.1 | 1256.9 | 1020.5 | 1149.3 | 1355.3 | 1381.6 | 1240.6 | 1121.9 | 1029.6 | 1019.5 |
| 52.5° | 6059.1 | 4166.2 | 1135.1 | 966.7 | 1105.7 | 1310.6 | 1356.3 | 1206.1 | 1057.0 | 954.6 | 945.4 |
| 55° | 6254.9 | 4044.5 | 1015.4 | 914.0 | 1045.9 | 1252.8 | 1320.8 | 1158.5 | 994.1 | 915.0 | 901.8 |
| 57.5° | 6281.3 | 3792.9 | 906.9 | 857.2 | 983.0 | 1181.8 | 1254.8 | 1100.6 | 953.6 | 887.6 | 876.5 |
| 60° | 6077.4 | 3417.6 | 822.7 | 810.5 | 919.1 | 1101.7 | 1180.8 | 1049.9 | 912.0 | 857.2 | 846.0 |
| 62.5° | 5570.2 | 3009.8 | 763.9 | 767.9 | 854.1 | 1017.5 | 1126.0 | 1001.2 | 872.4 | 823.7 | 813.6 |
| 65° | 4697.8 | 2484.3 | 707.0 | 724.3 | 796.3 | 951.5 | 1076.3 | 960.7 | 832.8 | 798.3 | 789.2 |
| 67.5° | 3263.4 | 1793.5 | 660.4 | 678.6 | 741.5 | 884.6 | 1018.5 | 917.0 | 788.2 | 769.9 | 755.7 |
| 70° | 1806.7 | 1103.7 | 605.6 | 626.9 | 684.7 | 809.5 | 953.6 | 851.1 | 723.3 | 715.2 | 694.9 |
| 72.5° | 949.5 | 703.0 | 543.7 | 567.1 | 607.6 | 713.1 | 854.1 | 779.1 | 659.4 | 624.9 | 598.5 |
| 74° | 741.5 | 576.2 | 502.1 | 526.5 | 553.9 | 656.3 | 795.3 | 727.3 | 613.7 | 573.1 | 552.9 |
| 75° | 646.2 | 513.3 | 466.6 | 498.1 | 522.4 | 617.8 | 749.7 | 690.8 | 588.4 | 549.8 | 531.6 |
| 77.5° | 456.5 | 384.5 | 381.4 | 419.0 | 432.1 | 541.7 | 675.6 | 628.9 | 524.5 | 483.9 | 466.6 |
| 80° | 320.6 | 288.1 | 302.3 | 325.6 | 343.9 | 478.8 | 626.9 | 543.7 | 430.1 | 382.4 | 376.3 |
| 82.5° | 209.0 | 188.7 | 216.1 | 237.4 | 243.5 | 353.0 | 506.2 | 412.9 | 313.5 | 254.6 | 236.4 |
| 85° | 96.4 | 94.3 | 123.8 | 120.7 | 119.7 | 172.5 | 300.3 | 241.4 | 180.6 | 134.9 | 126.8 |
| 87.5° | 24.3 | 23.3 | 30.4 | 25.4 | 30.4 | 26.4 | 27.4 | 7.1 | 1.0 | 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)