

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: P531854

Luminaire Tested: **GLAN-SA7A-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531854
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-SA7A-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 21231 lumens
Efficiency: N/A
Efficacy: 98.7 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

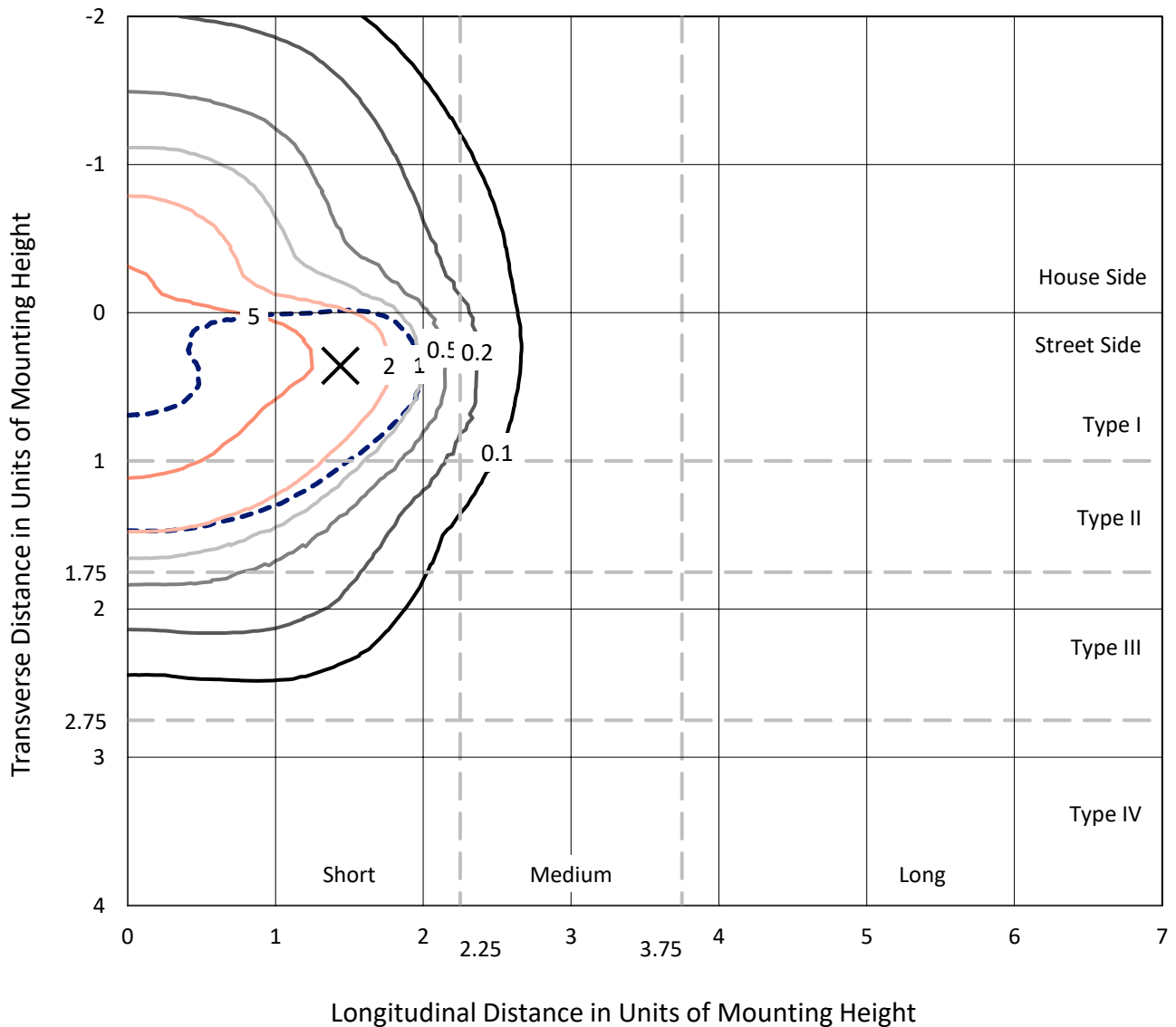
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

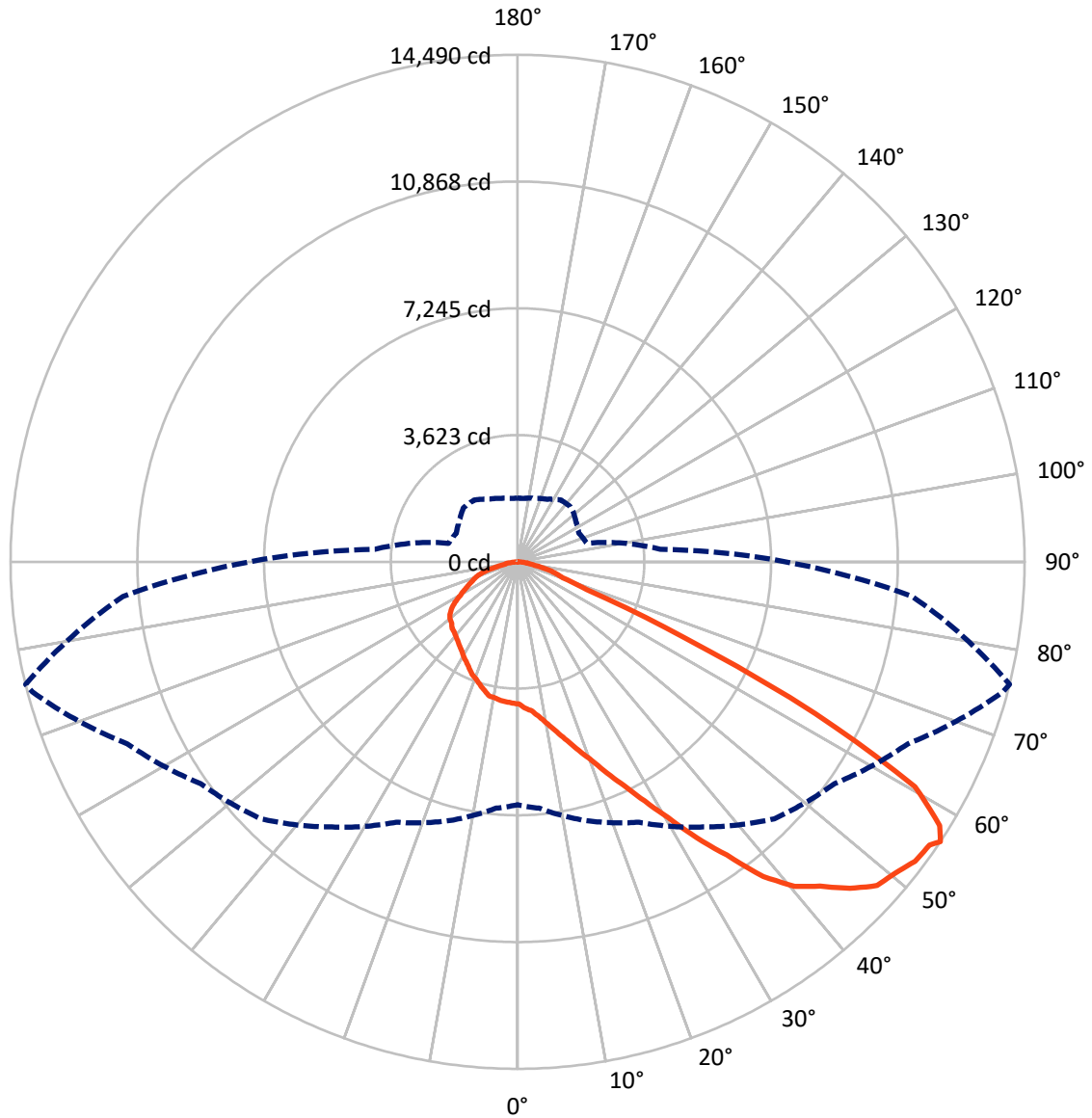
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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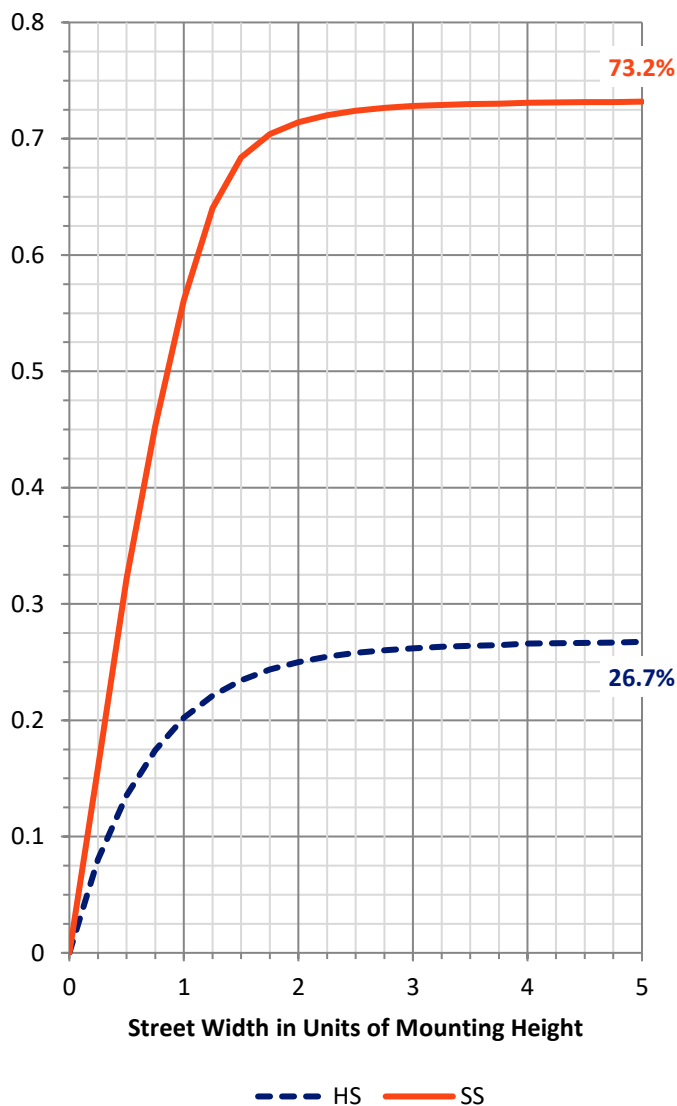
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5708.4 | 0.0 | 5708.4 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| Street Side | Lumens | 15522.6 | 0.0 | 15522.6 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| Total | Lumens | 21231.0 | 0.0 | 21231.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 402.9 | 1.9 |
| 10°-20° | 1265.5 | 6.0 |
| 20°-30° | 2213.2 | 10.4 |
| 30°-40° | 3465.2 | 16.3 |
| 40°-50° | 5040.9 | 23.7 |
| 50°-60° | 5540.3 | 26.1 |
| 60°-70° | 2472.9 | 11.6 |
| 70°-80° | 714.3 | 3.4 |
| 80°-90° | 115.9 | 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° | 21231.0 | 100.0 |
| 0°-180° | 21231.0 | 100.0 |

Coefficient of Utilization



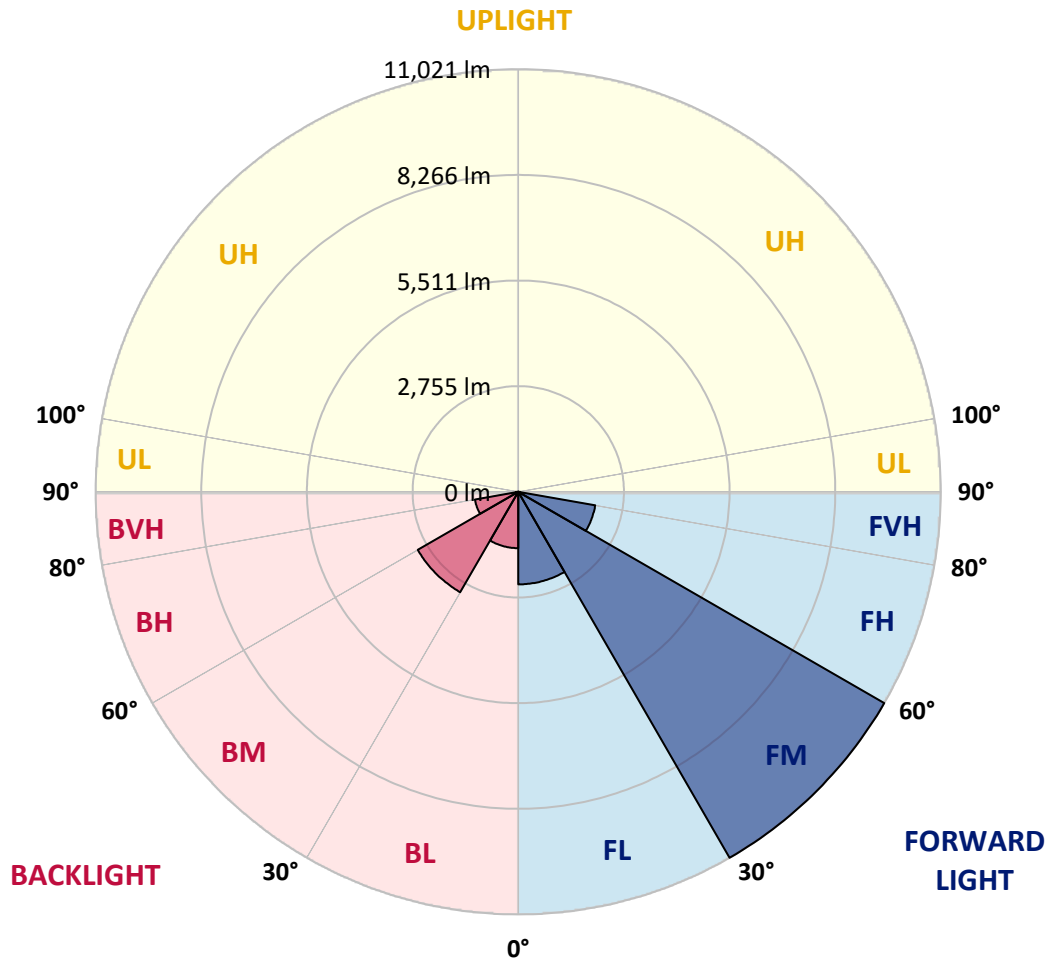
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2412.7 | 11.4 | | | |
| FM (30°-60°) | 11021.4 | 51.9 | | | |
| FH (60°-80°) | 2038.7 | 9.6 | | | G2/5000 |
| FVH (80°-90°) | 49.9 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1468.9 | 6.9 | B3/2500 | | |
| BM (30°-60°) | 3025.0 | 14.2 | B3/5000 | | |
| BH (60°-80°) | 1148.5 | 5.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 66.0 | 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-G3

Type II Short





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CATALOG NUMBER: GLAN-SA7A-830-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4062.3 | 4062.3 | 4062.3 | 4062.3 | 4062.3 | 4062.3 | 4062.3 | 4062.3 | 4062.3 | 4062.3 | 4062.3 |
| 2.5° | 4475.1 | 4403.6 | 4398.1 | 4378.8 | 4389.8 | 4340.3 | 4288.0 | 4219.2 | 4147.6 | 4191.6 | 4087.0 |
| 5° | 4788.9 | 4692.5 | 4731.1 | 4665.0 | 4673.3 | 4607.2 | 4499.9 | 4420.1 | 4332.0 | 4279.7 | 4205.4 |
| 7.5° | 4899.0 | 4907.2 | 4934.7 | 4923.7 | 4868.7 | 4868.7 | 4797.1 | 4656.8 | 4502.6 | 4472.4 | 4348.5 |
| 10° | 5047.6 | 5050.3 | 5020.1 | 5028.3 | 5105.4 | 5069.6 | 5006.3 | 4945.7 | 4747.6 | 4711.8 | 4491.6 |
| 12.5° | 5099.9 | 5050.3 | 5099.9 | 5143.9 | 5234.7 | 5284.3 | 5270.5 | 5226.5 | 5014.5 | 4989.8 | 4667.8 |
| 15° | 5108.1 | 5077.8 | 5119.1 | 5218.2 | 5298.0 | 5507.2 | 5611.8 | 5581.5 | 5300.8 | 5303.5 | 4865.9 |
| 17.5° | 5069.6 | 5110.9 | 5127.4 | 5212.7 | 5397.1 | 5592.5 | 5895.3 | 5936.5 | 5705.4 | 5669.6 | 5116.4 |
| 20° | 5121.9 | 5091.6 | 5113.6 | 5190.7 | 5435.6 | 5741.1 | 6137.5 | 6409.9 | 6085.2 | 6060.4 | 5375.1 |
| 22.5° | 5322.8 | 5281.5 | 5276.0 | 5325.5 | 5501.7 | 5818.2 | 6393.4 | 6883.3 | 6547.5 | 6561.3 | 5697.1 |
| 25° | 5479.7 | 5501.7 | 5482.4 | 5479.7 | 5589.8 | 5933.8 | 6731.9 | 7447.5 | 7175.0 | 7095.2 | 6076.9 |
| 27.5° | 5749.4 | 5801.7 | 5763.2 | 5815.4 | 5790.7 | 6107.2 | 6974.1 | 8072.3 | 7852.1 | 7744.8 | 6420.9 |
| 30° | 6123.7 | 6151.2 | 6115.4 | 6115.4 | 6041.1 | 6349.4 | 7194.3 | 8724.5 | 8633.7 | 8487.9 | 6825.5 |
| 32.5° | 6616.3 | 6657.6 | 6586.1 | 6544.8 | 6533.8 | 6709.9 | 7590.6 | 9368.6 | 9522.7 | 9398.8 | 7362.2 |
| 35° | 7268.6 | 7243.8 | 7158.5 | 7120.0 | 6971.4 | 7263.1 | 8179.6 | 10108.9 | 10513.5 | 10293.3 | 8011.7 |
| 37.5° | 7843.8 | 7805.3 | 7799.8 | 7585.1 | 7620.9 | 7860.3 | 8680.5 | 10670.4 | 11474.0 | 11410.7 | 8697.0 |
| 40° | 8380.5 | 8416.3 | 8474.1 | 8353.0 | 8297.9 | 8562.2 | 9264.0 | 11099.7 | 12219.9 | 12195.1 | 9225.4 |
| 42.5° | 8955.7 | 8922.7 | 9024.5 | 8922.7 | 8840.1 | 9214.4 | 9897.0 | 11397.0 | 12874.9 | 12671.2 | 9778.6 |
| 45° | 9789.7 | 9685.1 | 9720.8 | 9729.1 | 9668.6 | 9806.2 | 10158.5 | 11611.6 | 13334.5 | 13312.5 | 10183.2 |
| 47.5° | 10486.0 | 10488.7 | 10428.2 | 10381.4 | 10197.0 | 10334.6 | 10450.2 | 11746.5 | 13862.9 | 13827.2 | 10340.1 |
| 50° | 10744.7 | 10708.9 | 10885.0 | 10986.9 | 10997.9 | 10717.2 | 10678.6 | 11820.8 | 14140.9 | 13984.0 | 10497.0 |
| 52.5° | 9814.4 | 9847.4 | 10125.4 | 10730.9 | 11080.4 | 11110.7 | 10945.6 | 11974.9 | 14253.8 | 14220.7 | 10623.6 |
| 55° | 7898.9 | 8058.5 | 8515.4 | 9214.4 | 10042.9 | 10953.8 | 11234.6 | 12134.5 | 14314.3 | 14286.8 | 11185.0 |
| 56° | 6943.9 | 7067.7 | 7662.2 | 8209.9 | 9250.2 | 10384.1 | 11052.9 | 12305.2 | 14361.1 | 14490.4 | 11317.1 |
| 57.5° | 5589.8 | 5732.9 | 6159.5 | 6781.5 | 8009.0 | 9299.8 | 10552.0 | 12096.0 | 14179.4 | 14229.0 | 11413.5 |
| 60° | 3495.3 | 3509.1 | 4021.0 | 4431.1 | 5295.3 | 6555.8 | 8053.0 | 10524.5 | 13122.6 | 13051.0 | 10252.0 |
| 62.5° | 2292.6 | 2295.4 | 2760.5 | 3096.2 | 3489.8 | 3778.8 | 4739.3 | 6979.6 | 9682.3 | 9555.7 | 7298.9 |
| 65° | 1610.0 | 1645.8 | 2006.4 | 2455.0 | 2614.6 | 2463.2 | 2433.0 | 3679.7 | 5408.1 | 5226.5 | 3921.9 |
| 67.5° | 1178.0 | 1180.7 | 1500.0 | 1981.6 | 2212.8 | 1874.3 | 1522.0 | 1797.2 | 2141.2 | 2135.7 | 1816.5 |
| 70° | 778.9 | 811.9 | 1056.9 | 1480.7 | 1744.9 | 1505.5 | 1244.0 | 1285.3 | 1362.3 | 1362.3 | 1351.3 |
| 72.5° | 454.1 | 484.4 | 646.8 | 938.5 | 979.8 | 941.3 | 985.3 | 1100.9 | 1150.4 | 1147.7 | 1133.9 |
| 75° | 258.7 | 272.5 | 308.2 | 390.8 | 487.1 | 575.2 | 723.8 | 833.9 | 883.5 | 913.7 | 878.0 |
| 77.5° | 151.4 | 159.6 | 181.6 | 222.9 | 253.2 | 311.0 | 393.6 | 470.6 | 536.7 | 528.4 | 533.9 |
| 80° | 79.8 | 79.8 | 101.8 | 132.1 | 176.1 | 220.2 | 261.5 | 305.5 | 341.3 | 349.5 | 357.8 |
| 82.5° | 46.8 | 49.5 | 66.1 | 96.3 | 126.6 | 156.9 | 200.9 | 231.2 | 264.2 | 267.0 | 272.5 |
| 85° | 24.8 | 27.5 | 41.3 | 63.3 | 85.3 | 96.3 | 99.1 | 93.6 | 101.8 | 96.3 | 110.1 |
| 87.5° | 8.3 | 8.3 | 13.8 | 11.0 | 11.0 | 13.8 | 16.5 | 16.5 | 22.0 | 22.0 | 22.0 |
| 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: P531854

CATALOG NUMBER: GLAN-SA7A-830-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4062.3 | 4062.3 | 4062.3 | 4062.3 | 4062.3 | 4062.3 | 4062.3 | 4062.3 | 4062.3 | 4062.3 | 4062.3 |
| 2.5° | 4084.3 | 4084.3 | 4037.5 | 3949.4 | 3935.7 | 3899.9 | 3866.9 | 3864.1 | 3839.3 | 3817.3 | 3806.3 |
| 5° | 4161.4 | 4076.0 | 4007.2 | 3927.4 | 3833.8 | 3789.8 | 3740.3 | 3685.2 | 3663.2 | 3685.2 | 3682.5 |
| 7.5° | 4249.4 | 4177.9 | 3971.5 | 3822.8 | 3715.5 | 3671.5 | 3616.4 | 3558.6 | 3564.1 | 3564.1 | 3525.6 |
| 10° | 4334.7 | 4238.4 | 3908.2 | 3718.3 | 3561.4 | 3528.3 | 3498.1 | 3520.1 | 3547.6 | 3553.1 | 3528.3 |
| 12.5° | 4477.9 | 4260.4 | 3877.9 | 3613.7 | 3514.6 | 3443.0 | 3462.3 | 3522.8 | 3580.6 | 3564.1 | 3583.4 |
| 15° | 4585.2 | 4279.7 | 3740.3 | 3506.3 | 3382.5 | 3415.5 | 3484.3 | 3525.6 | 3621.9 | 3610.9 | 3630.2 |
| 17.5° | 4689.8 | 4290.7 | 3605.4 | 3363.2 | 3310.9 | 3401.7 | 3454.0 | 3572.4 | 3602.7 | 3668.7 | 3693.5 |
| 20° | 4904.5 | 4312.7 | 3467.8 | 3275.1 | 3258.6 | 3363.2 | 3454.0 | 3509.1 | 3575.1 | 3632.9 | 3632.9 |
| 22.5° | 5014.5 | 4301.7 | 3377.0 | 3159.6 | 3211.8 | 3277.9 | 3360.5 | 3454.0 | 3454.0 | 3509.1 | 3511.8 |
| 25° | 5152.2 | 4257.7 | 3233.9 | 3104.5 | 3143.0 | 3206.3 | 3299.9 | 3266.9 | 3302.7 | 3302.7 | 3346.7 |
| 27.5° | 5309.0 | 4164.1 | 3110.0 | 3005.4 | 3082.5 | 3151.3 | 3165.1 | 3143.0 | 3101.8 | 3096.2 | 3079.7 |
| 30° | 5435.6 | 4048.5 | 3019.2 | 2972.4 | 3035.7 | 3074.2 | 3030.2 | 2983.4 | 2911.9 | 2906.3 | 2867.8 |
| 32.5° | 5609.0 | 3905.4 | 2906.3 | 2889.8 | 2961.4 | 2964.1 | 2950.4 | 2878.8 | 2774.2 | 2730.2 | 2686.2 |
| 35° | 5900.8 | 3822.8 | 2821.0 | 2845.8 | 2867.8 | 2859.6 | 2834.8 | 2757.7 | 2653.1 | 2633.9 | 2617.4 |
| 37.5° | 6115.4 | 3762.3 | 2733.0 | 2763.2 | 2782.5 | 2793.5 | 2719.2 | 2633.9 | 2636.6 | 2598.1 | 2587.1 |
| 40° | 6357.6 | 3723.8 | 2661.4 | 2675.2 | 2677.9 | 2713.7 | 2622.9 | 2581.6 | 2600.8 | 2576.1 | 2592.6 |
| 42.5° | 6668.6 | 3734.8 | 2587.1 | 2576.1 | 2628.4 | 2614.6 | 2570.6 | 2515.5 | 2526.5 | 2452.2 | 2463.2 |
| 45° | 6833.8 | 3809.1 | 2543.1 | 2493.5 | 2551.3 | 2548.6 | 2490.8 | 2438.5 | 2372.4 | 2229.3 | 2234.8 |
| 47.5° | 6943.9 | 3828.3 | 2438.5 | 2405.4 | 2466.0 | 2501.8 | 2435.7 | 2314.6 | 2221.0 | 2119.2 | 2094.4 |
| 50° | 7056.7 | 3864.1 | 2388.9 | 2320.1 | 2344.9 | 2430.2 | 2347.6 | 2232.1 | 2141.2 | 2050.4 | 2064.2 |
| 52.5° | 7155.8 | 3932.9 | 2292.6 | 2190.8 | 2234.8 | 2328.4 | 2284.3 | 2144.0 | 2044.9 | 1970.6 | 1948.6 |
| 55° | 7596.1 | 4087.0 | 2130.2 | 1998.1 | 2102.7 | 2221.0 | 2196.3 | 2025.6 | 1918.3 | 1879.8 | 1874.3 |
| 56° | 7664.9 | 4092.6 | 2044.9 | 1932.1 | 2028.4 | 2185.3 | 2155.0 | 1973.3 | 1877.0 | 1816.5 | 1819.2 |
| 57.5° | 7675.9 | 4026.5 | 1923.8 | 1871.5 | 1954.1 | 2133.0 | 2094.4 | 1932.1 | 1800.0 | 1744.9 | 1728.4 |
| 60° | 6754.0 | 3143.0 | 1772.4 | 1739.4 | 1835.7 | 1973.3 | 1959.6 | 1819.2 | 1670.6 | 1607.3 | 1637.6 |
| 62.5° | 4604.5 | 2303.6 | 1654.1 | 1648.6 | 1698.1 | 1833.0 | 1797.2 | 1670.6 | 1546.7 | 1505.5 | 1486.2 |
| 65° | 2680.7 | 1747.7 | 1538.5 | 1516.5 | 1557.8 | 1629.3 | 1654.1 | 1522.0 | 1392.6 | 1365.1 | 1356.8 |
| 67.5° | 1582.5 | 1444.9 | 1389.9 | 1354.1 | 1340.3 | 1384.4 | 1403.6 | 1326.6 | 1197.2 | 1158.7 | 1191.7 |
| 70° | 1323.8 | 1285.3 | 1288.0 | 1227.5 | 1194.5 | 1164.2 | 1147.7 | 1078.9 | 971.5 | 922.0 | 908.2 |
| 72.5° | 1142.2 | 1125.7 | 1114.6 | 1059.6 | 1029.3 | 960.5 | 889.0 | 820.2 | 740.3 | 699.1 | 701.8 |
| 75° | 872.5 | 866.9 | 872.5 | 844.9 | 792.6 | 737.6 | 671.5 | 583.5 | 522.9 | 470.6 | 481.6 |
| 77.5° | 520.2 | 536.7 | 544.9 | 533.9 | 511.9 | 462.4 | 421.1 | 363.3 | 305.5 | 264.2 | 258.7 |
| 80° | 357.8 | 371.5 | 385.3 | 371.5 | 349.5 | 313.8 | 269.7 | 225.7 | 184.4 | 162.4 | 156.9 |
| 82.5° | 272.5 | 286.2 | 294.5 | 280.7 | 253.2 | 214.7 | 184.4 | 154.1 | 121.1 | 99.1 | 93.6 |
| 85° | 99.1 | 112.8 | 110.1 | 132.1 | 143.1 | 137.6 | 118.3 | 90.8 | 68.8 | 49.5 | 46.8 |
| 87.5° | 27.5 | 24.8 | 27.5 | 27.5 | 27.5 | 24.8 | 22.0 | 22.0 | 22.0 | 13.8 | 11.0 |
| 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)