

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: P456416

Luminaire Tested: **GLAN-SA7C-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7C-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39657 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

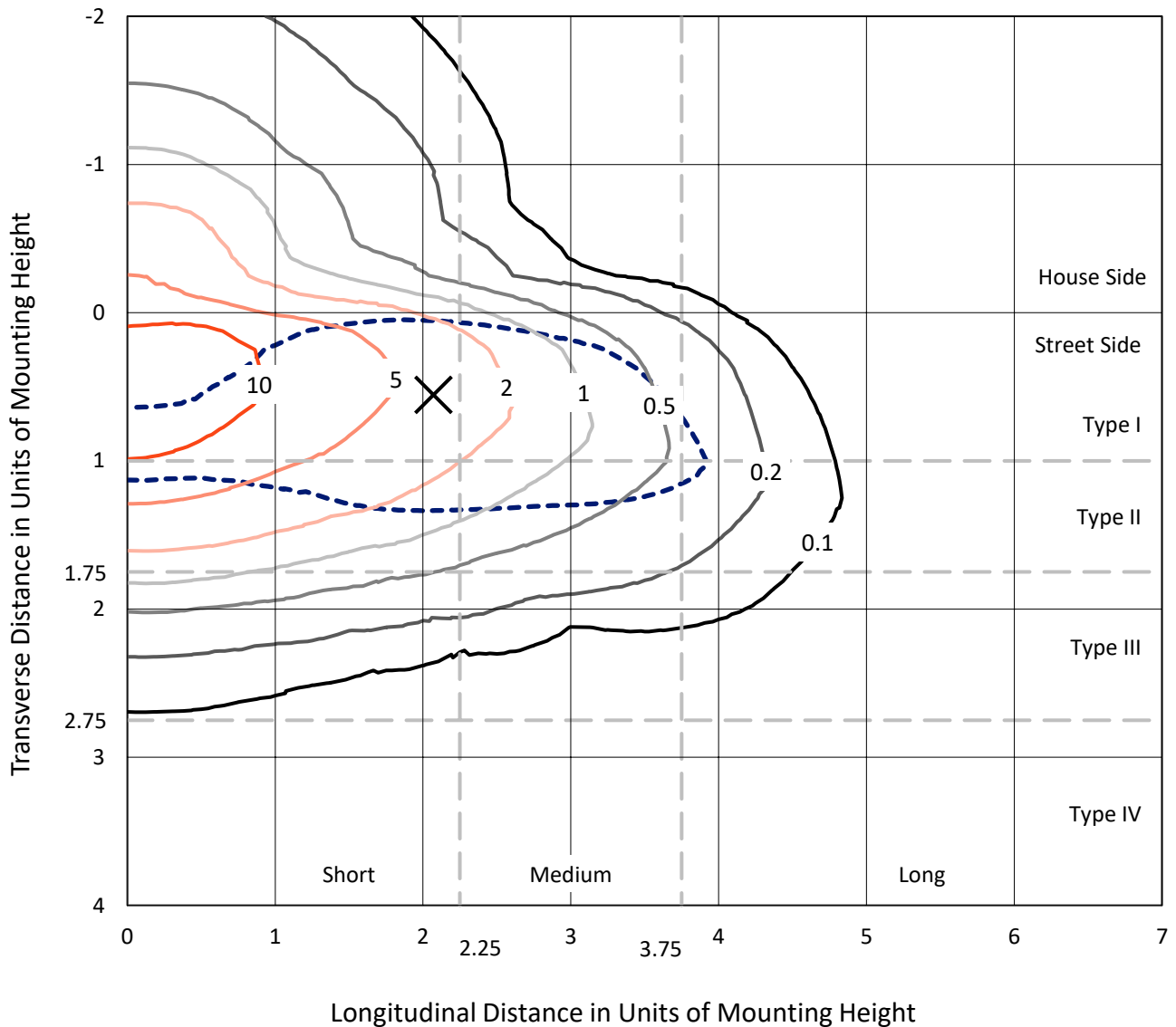
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456416
 CATALOG NUMBER: GLAN-SA7C-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

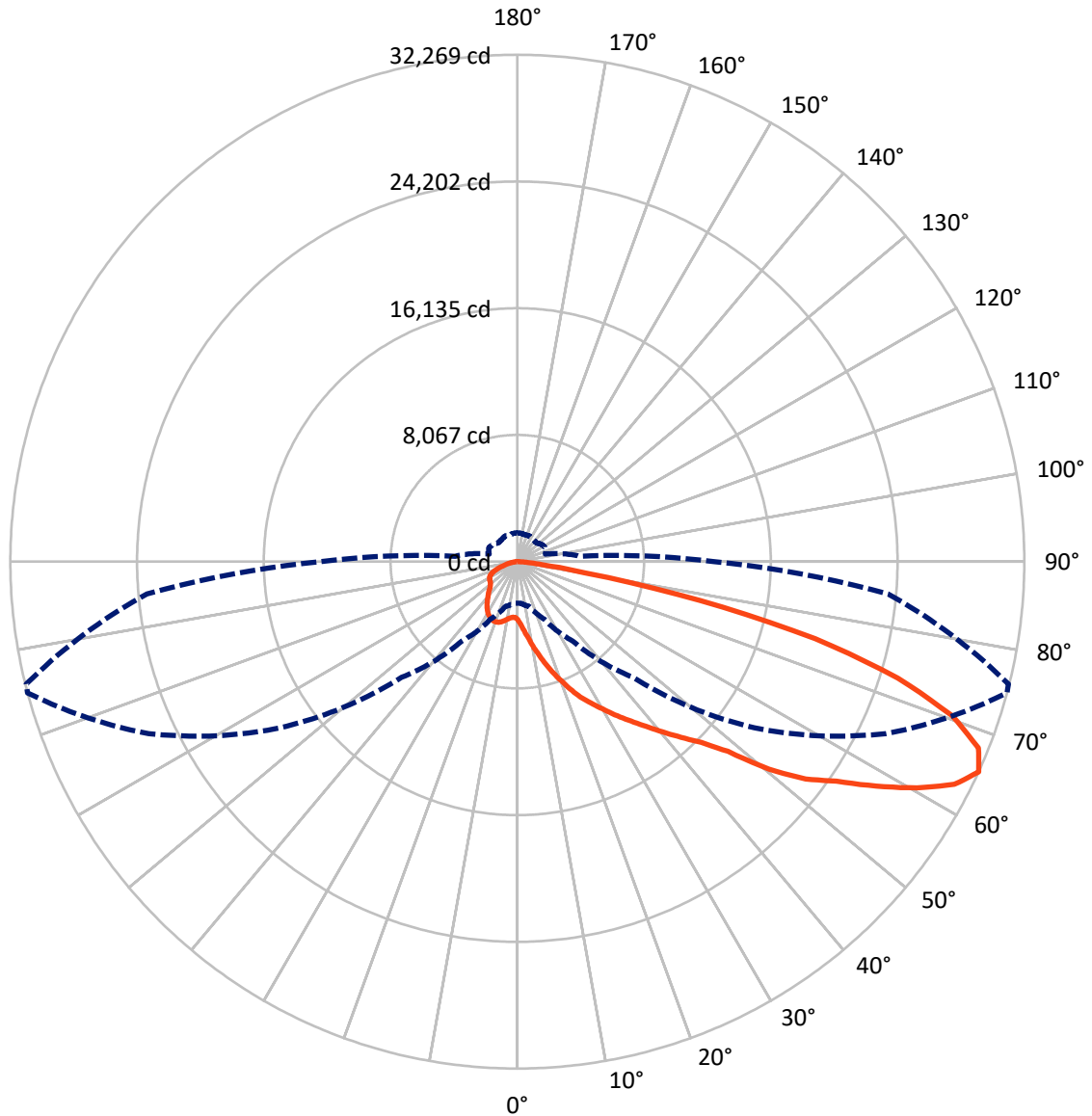
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - N/A

REPORT NUMBER: P456416
CATALOG NUMBER: GLAN-SA7C-830-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P456416

CATALOG NUMBER: GLAN-SA7C-830-U-T2R

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6666.9 | 0.0 | 6666.9 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 32990.1 | 0.0 | 32990.1 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 39657.0 | 0.0 | 39657.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 447.7 | 1.1 |
| 10°-20° | 1753.5 | 4.4 |
| 20°-30° | 3387.1 | 8.5 |
| 30°-40° | 5501.7 | 13.9 |
| 40°-50° | 7568.1 | 19.1 |
| 50°-60° | 8935.3 | 22.5 |
| 60°-70° | 7828.8 | 19.7 |
| 70°-80° | 3737.5 | 9.4 |
| 80°-90° | 497.3 | 1.3 |
| 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° | 39657.0 | 100.0 |
| 0°-180° | 39657.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P456416

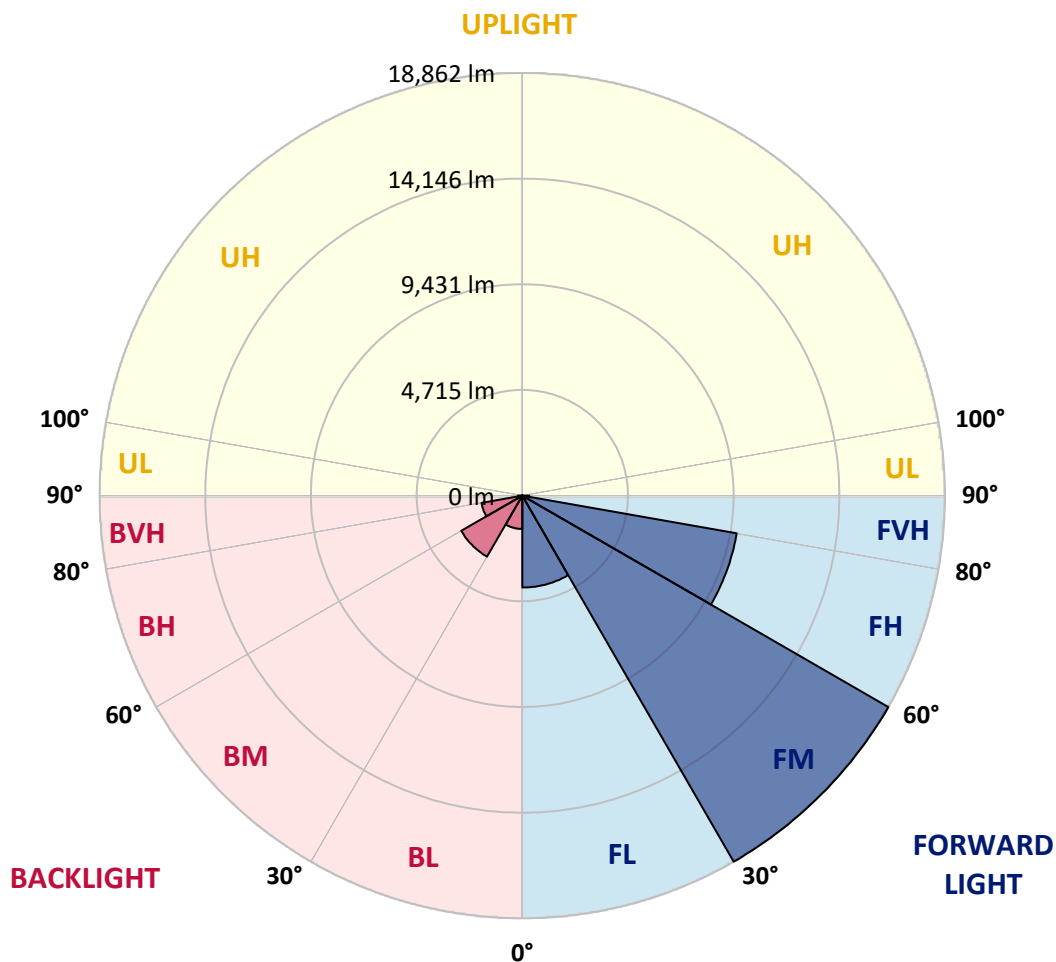
CATALOG NUMBER: GLAN-SA7C-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 4099.9 | 10.3 | | | |
| FM | (30°-60°) | 18861.7 | 47.6 | | | |
| FH | (60°-80°) | 9717.7 | 24.5 | | | G4/12000 |
| FVH | (80°-90°) | 310.8 | 0.8 | | | G3/500 |
| BL | (0°-30°) | 1488.4 | 3.8 | B3/2500 | | |
| BM | (30°-60°) | 3143.4 | 7.9 | B3/5000 | | |
| BH | (60°-80°) | 1848.6 | 4.7 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 186.5 | 0.5 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Short





REPORT NUMBER: P456416

CATALOG NUMBER: GLAN-SA7C-830-U-T2R

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3684.6 | 3684.6 | 3684.6 | 3684.6 | 3684.6 | 3684.6 | 3684.6 | 3684.6 | 3684.6 | 3684.6 | 3684.6 |
| 2.5° | 4895.6 | 4863.4 | 4829.0 | 4734.3 | 4633.2 | 4519.2 | 4355.7 | 4198.7 | 3990.1 | 3983.6 | 3828.8 |
| 5° | 6252.9 | 6231.4 | 6078.7 | 5990.5 | 5756.0 | 5444.1 | 5179.6 | 4768.7 | 4388.0 | 4342.8 | 4041.7 |
| 7.5° | 7500.5 | 7416.6 | 7358.5 | 7199.3 | 6967.0 | 6567.0 | 6055.0 | 5500.1 | 4863.4 | 4803.1 | 4304.1 |
| 10° | 8440.5 | 8431.9 | 8401.7 | 8264.1 | 8089.9 | 7691.9 | 7124.1 | 6328.2 | 5465.7 | 5347.3 | 4622.5 |
| 12.5° | 9143.8 | 9150.3 | 9146.0 | 9143.8 | 9019.1 | 8681.4 | 8066.2 | 7227.3 | 6074.4 | 5990.5 | 4990.3 |
| 15° | 9606.3 | 9670.8 | 9696.6 | 9804.2 | 9814.9 | 9589.1 | 9059.9 | 8096.3 | 6760.5 | 6635.8 | 5386.1 |
| 17.5° | 9911.7 | 9944.0 | 10064.5 | 10247.3 | 10395.7 | 10354.8 | 9883.8 | 8900.8 | 7461.8 | 7253.1 | 5796.9 |
| 20° | 10204.3 | 10260.2 | 10352.7 | 10602.2 | 10864.6 | 10985.1 | 10653.8 | 9724.6 | 8156.5 | 8023.2 | 6250.8 |
| 22.5° | 10813.0 | 10892.6 | 10924.8 | 11051.8 | 11275.5 | 11488.4 | 11337.8 | 10514.0 | 8918.0 | 8737.3 | 6732.6 |
| 25° | 11843.3 | 11927.2 | 11836.9 | 11806.8 | 11879.9 | 11985.3 | 11953.0 | 11258.3 | 9636.4 | 9378.3 | 7188.6 |
| 27.5° | 13185.5 | 13196.3 | 13019.9 | 12852.1 | 12671.4 | 12617.7 | 12518.7 | 11918.6 | 10260.2 | 10045.1 | 7646.7 |
| 30° | 14626.7 | 14575.1 | 14282.5 | 13979.2 | 13673.8 | 13372.7 | 13088.7 | 12555.3 | 10955.0 | 10707.6 | 8096.3 |
| 32.5° | 15964.6 | 15936.6 | 15611.8 | 15140.8 | 14624.5 | 14340.6 | 13766.3 | 13198.4 | 11699.2 | 11460.4 | 8558.8 |
| 35° | 16967.0 | 17007.8 | 16650.8 | 16136.7 | 15573.1 | 15321.5 | 14596.6 | 13873.8 | 12469.3 | 12209.0 | 9062.1 |
| 37.5° | 17678.9 | 17657.4 | 17341.2 | 16896.0 | 16401.3 | 16181.9 | 15566.7 | 14611.6 | 13297.4 | 13047.9 | 9612.7 |
| 40° | 17932.8 | 17919.9 | 17685.4 | 17360.6 | 17046.6 | 16969.1 | 16581.9 | 15407.5 | 14246.0 | 13953.4 | 10275.3 |
| 42.5° | 17771.4 | 17799.4 | 17644.5 | 17556.3 | 17498.3 | 17554.2 | 17590.7 | 16450.7 | 15280.6 | 15011.7 | 10993.7 |
| 45° | 17276.7 | 17261.6 | 17240.1 | 17384.3 | 17711.2 | 18079.0 | 18588.8 | 17435.9 | 16405.6 | 16190.5 | 11957.3 |
| 47.5° | 16392.7 | 16500.2 | 16554.0 | 16951.9 | 17666.0 | 18537.2 | 19737.4 | 18756.6 | 18038.2 | 17851.0 | 13426.4 |
| 50° | 15155.8 | 15241.9 | 15560.2 | 16267.9 | 17332.6 | 18709.3 | 20860.2 | 20916.2 | 20761.3 | 20410.7 | 15022.5 |
| 52.5° | 13224.3 | 13357.6 | 14013.7 | 15310.7 | 16648.6 | 18638.3 | 21540.0 | 22768.2 | 22972.5 | 22710.1 | 16594.8 |
| 55° | 11062.5 | 11249.6 | 11942.3 | 13643.7 | 15706.5 | 18251.1 | 22008.9 | 23841.5 | 24656.7 | 24413.7 | 18109.1 |
| 57.5° | 8945.9 | 9143.8 | 9855.8 | 11503.5 | 14063.1 | 17395.0 | 22316.5 | 25037.5 | 26949.7 | 26633.5 | 19993.4 |
| 60° | 6704.6 | 6911.1 | 7522.0 | 9219.1 | 11722.9 | 15721.5 | 22107.8 | 26074.2 | 29240.5 | 29105.0 | 21879.8 |
| 62.5° | 4325.6 | 4553.6 | 5084.9 | 6489.5 | 9010.5 | 13435.0 | 20991.5 | 26646.4 | 31223.7 | 31060.2 | 23256.4 |
| 65° | 2635.0 | 2660.8 | 2953.3 | 4028.8 | 6166.9 | 10402.2 | 18438.2 | 25887.1 | 32269.1 | 32219.6 | 23675.9 |
| 67.5° | 1703.6 | 1744.4 | 1877.8 | 2413.4 | 3697.5 | 7225.2 | 14742.8 | 23381.2 | 31658.2 | 31641.0 | 22809.0 |
| 70° | 1439.0 | 1451.9 | 1512.1 | 1628.3 | 2148.8 | 4381.6 | 10352.7 | 19386.8 | 29337.3 | 29337.3 | 20724.7 |
| 72.5° | 1286.3 | 1303.5 | 1325.0 | 1361.6 | 1533.7 | 2482.2 | 6177.6 | 15091.3 | 25330.0 | 25497.8 | 17640.2 |
| 75° | 1168.0 | 1163.7 | 1176.6 | 1183.0 | 1307.8 | 1621.8 | 3194.2 | 11161.5 | 19595.5 | 19259.9 | 12774.7 |
| 77.5° | 1000.2 | 1006.7 | 1000.2 | 1028.2 | 1155.1 | 1234.7 | 1621.8 | 7489.7 | 11875.6 | 11441.1 | 6412.1 |
| 80° | 821.7 | 832.4 | 843.2 | 860.4 | 987.3 | 937.8 | 974.4 | 3413.6 | 4392.3 | 4299.8 | 1981.1 |
| 82.5° | 617.3 | 632.4 | 649.6 | 690.5 | 776.5 | 619.5 | 615.2 | 1458.4 | 1585.3 | 1451.9 | 729.2 |
| 85° | 249.5 | 294.7 | 445.3 | 486.1 | 488.3 | 339.9 | 378.6 | 608.7 | 647.4 | 632.4 | 286.1 |
| 87.5° | 58.1 | 68.8 | 144.1 | 217.2 | 200.0 | 126.9 | 139.8 | 197.9 | 225.9 | 208.6 | 96.8 |
| 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: P456416

CATALOG NUMBER: GLAN-SA7C-830-U-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3684.6 | 3684.6 | 3684.6 | 3684.6 | 3684.6 | 3684.6 | 3684.6 | 3684.6 | 3684.6 | 3684.6 | 3684.6 |
| 2.5° | 3757.8 | 3682.5 | 3553.4 | 3454.5 | 3383.5 | 3321.1 | 3282.4 | 3258.7 | 3250.1 | 3248.0 | 3250.1 |
| 5° | 3884.7 | 3751.3 | 3547.0 | 3417.9 | 3346.9 | 3306.1 | 3282.4 | 3280.3 | 3282.4 | 3284.6 | 3278.1 |
| 7.5° | 4058.9 | 3867.5 | 3600.7 | 3480.3 | 3426.5 | 3396.4 | 3385.6 | 3381.3 | 3383.5 | 3381.3 | 3381.3 |
| 10° | 4291.2 | 4028.8 | 3706.1 | 3581.4 | 3536.2 | 3501.8 | 3484.6 | 3473.8 | 3465.2 | 3456.6 | 3452.3 |
| 12.5° | 4547.2 | 4207.3 | 3820.1 | 3699.7 | 3635.2 | 3581.4 | 3542.7 | 3514.7 | 3495.3 | 3476.0 | 3471.7 |
| 15° | 4833.3 | 4396.6 | 3947.1 | 3779.3 | 3686.8 | 3607.2 | 3540.5 | 3495.3 | 3460.9 | 3433.0 | 3430.8 |
| 17.5° | 5106.4 | 4575.1 | 4033.1 | 3815.8 | 3680.3 | 3568.5 | 3480.3 | 3417.9 | 3374.9 | 3338.3 | 3334.0 |
| 20° | 5399.0 | 4745.1 | 4071.8 | 3792.2 | 3615.8 | 3480.3 | 3364.1 | 3288.9 | 3239.4 | 3198.5 | 3192.1 |
| 22.5° | 5693.7 | 4889.2 | 4067.5 | 3716.9 | 3504.0 | 3344.8 | 3222.2 | 3142.6 | 3084.5 | 3043.6 | 3028.6 |
| 25° | 5975.4 | 5005.3 | 4013.7 | 3596.4 | 3349.1 | 3183.5 | 3058.7 | 2985.6 | 2933.9 | 2884.5 | 2884.5 |
| 27.5° | 6229.3 | 5074.2 | 3912.6 | 3450.2 | 3189.9 | 3015.7 | 2916.7 | 2850.1 | 2802.7 | 2770.5 | 2751.1 |
| 30° | 6478.8 | 5106.4 | 3775.0 | 3265.2 | 3022.1 | 2873.7 | 2794.1 | 2755.4 | 2712.4 | 2675.8 | 2671.5 |
| 32.5° | 6702.5 | 5100.0 | 3602.9 | 3084.5 | 2863.0 | 2757.6 | 2725.3 | 2695.2 | 2650.0 | 2598.4 | 2585.5 |
| 35° | 6919.7 | 5057.0 | 3398.6 | 2886.6 | 2729.6 | 2688.7 | 2697.3 | 2654.3 | 2572.6 | 2508.0 | 2497.3 |
| 37.5° | 7156.3 | 4979.5 | 3174.9 | 2725.3 | 2617.7 | 2656.5 | 2678.0 | 2583.3 | 2450.0 | 2348.9 | 2325.2 |
| 40° | 7429.5 | 4891.3 | 2942.5 | 2564.0 | 2529.6 | 2626.4 | 2626.4 | 2452.1 | 2269.3 | 2206.9 | 2189.7 |
| 42.5° | 7750.0 | 4818.2 | 2749.0 | 2428.5 | 2456.4 | 2553.2 | 2542.5 | 2277.9 | 2202.6 | 2170.3 | 2161.7 |
| 45° | 8257.6 | 4792.4 | 2548.9 | 2310.2 | 2396.2 | 2467.2 | 2379.0 | 2217.7 | 2174.6 | 2148.8 | 2140.2 |
| 47.5° | 9059.9 | 4822.5 | 2372.5 | 2222.0 | 2327.4 | 2381.1 | 2196.2 | 2176.8 | 2146.7 | 2110.1 | 2105.8 |
| 50° | 9804.2 | 4794.5 | 2247.8 | 2172.5 | 2267.1 | 2277.9 | 2120.9 | 2127.3 | 2110.1 | 2069.2 | 2060.6 |
| 52.5° | 10412.9 | 4706.4 | 2168.2 | 2146.7 | 2215.5 | 2097.2 | 2049.9 | 2073.5 | 2067.1 | 2015.5 | 2006.9 |
| 55° | 11081.9 | 4652.6 | 2129.5 | 2146.7 | 2181.1 | 1940.2 | 1983.2 | 2017.6 | 2009.0 | 1972.5 | 1970.3 |
| 57.5° | 11892.8 | 4663.3 | 2101.5 | 2153.1 | 2146.7 | 1860.6 | 1916.5 | 1957.4 | 1955.2 | 1944.5 | 1944.5 |
| 60° | 12723.1 | 4667.6 | 2058.5 | 2151.0 | 2105.8 | 1798.2 | 1847.7 | 1905.8 | 1910.1 | 1916.5 | 1916.5 |
| 62.5° | 12998.4 | 4480.5 | 1974.6 | 2112.3 | 2015.5 | 1738.0 | 1783.2 | 1862.8 | 1858.5 | 1875.7 | 1877.8 |
| 65° | 12484.3 | 3962.1 | 1849.8 | 2024.1 | 1899.3 | 1695.0 | 1733.7 | 1806.8 | 1783.2 | 1828.3 | 1836.9 |
| 67.5° | 11363.7 | 3278.1 | 1656.3 | 1864.9 | 1770.3 | 1649.8 | 1701.4 | 1729.4 | 1686.4 | 1774.6 | 1776.7 |
| 70° | 9821.4 | 2559.7 | 1411.0 | 1639.1 | 1624.0 | 1602.5 | 1675.6 | 1632.6 | 1572.4 | 1679.9 | 1658.4 |
| 72.5° | 8212.5 | 1955.2 | 1127.1 | 1340.1 | 1428.3 | 1531.5 | 1630.4 | 1507.8 | 1424.0 | 1456.2 | 1417.5 |
| 75° | 6169.0 | 1445.5 | 905.6 | 1049.7 | 1189.5 | 1430.4 | 1589.6 | 1357.3 | 1228.2 | 1198.1 | 1189.5 |
| 77.5° | 3144.7 | 944.3 | 677.6 | 785.1 | 892.7 | 1292.7 | 1533.7 | 1180.9 | 1017.4 | 970.1 | 948.6 |
| 80° | 1122.8 | 587.2 | 477.5 | 542.0 | 602.3 | 1112.1 | 1340.1 | 976.5 | 789.4 | 780.8 | 789.4 |
| 82.5° | 520.5 | 378.6 | 320.5 | 354.9 | 357.1 | 742.1 | 1021.7 | 729.2 | 600.1 | 912.0 | 770.1 |
| 85° | 223.7 | 189.3 | 180.7 | 176.4 | 163.5 | 331.3 | 574.3 | 391.5 | 610.9 | 273.2 | 251.7 |
| 87.5° | 66.7 | 75.3 | 66.7 | 49.5 | 36.6 | 36.6 | 58.1 | 21.5 | 15.1 | 10.8 | 10.8 |
| 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)