

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: P458325

Luminaire Tested: **GLAN-SA9D-727-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458325
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-SA9D-727-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA 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: 50556 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

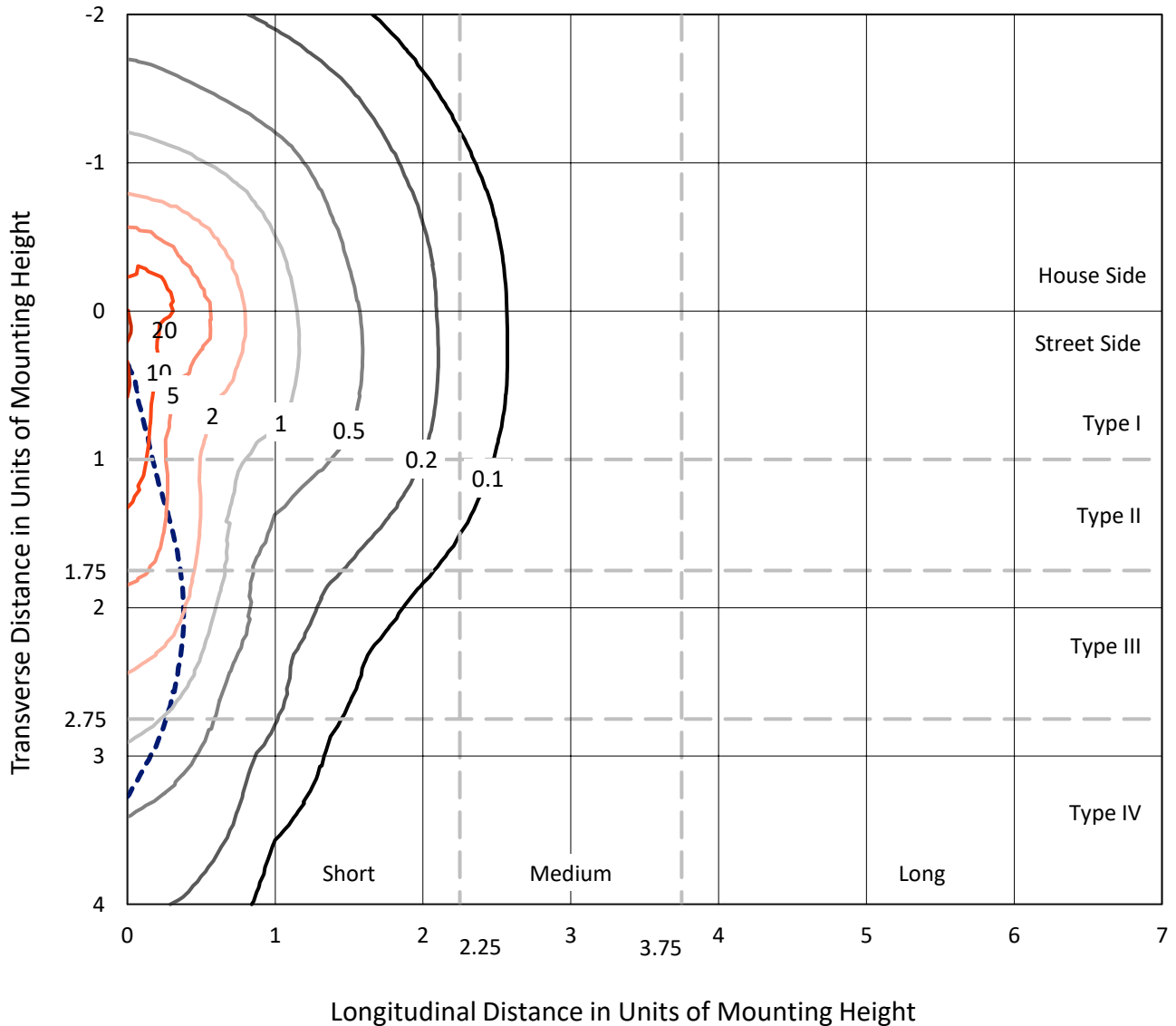
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458325
 CATALOG NUMBER: GLAN-SA9D-727-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

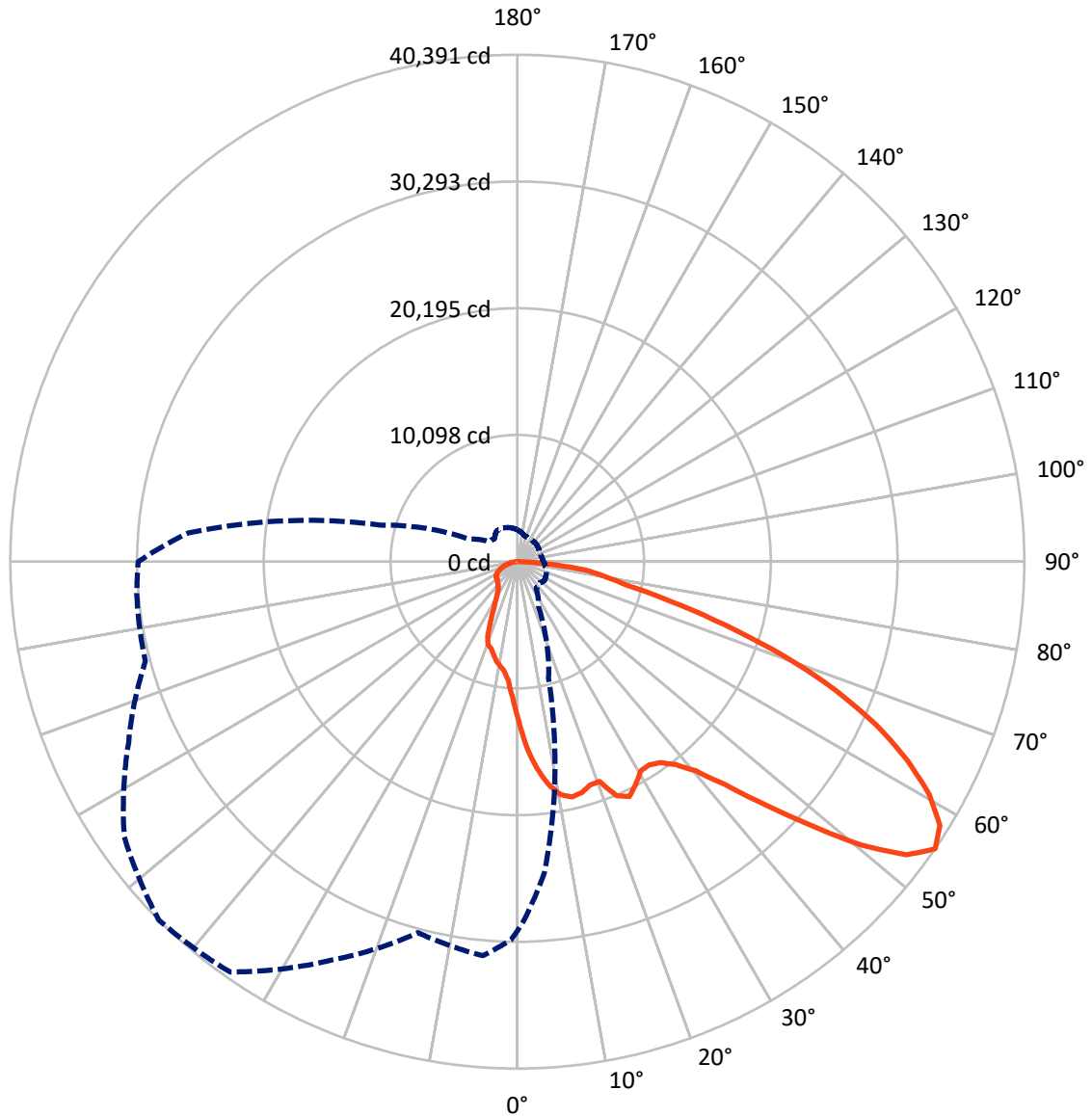
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P458325
CATALOG NUMBER: GLAN-SA9D-727-U-SLR

Luminous Intensity Polar Plot



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

REPORT NUMBER: P458325

CATALOG NUMBER: GLAN-SA9D-727-U-SLR

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11058.9 | 0.0 | 11058.9 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 39497.1 | 0.0 | 39497.1 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 50556.0 | 0.0 | 50556.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1075.3 | 2.1 |
| 10°-20° | 2852.8 | 5.6 |
| 20°-30° | 4928.4 | 9.7 |
| 30°-40° | 5727.6 | 11.3 |
| 40°-50° | 7991.1 | 15.8 |
| 50°-60° | 10843.0 | 21.4 |
| 60°-70° | 10315.9 | 20.4 |
| 70°-80° | 5572.9 | 11.0 |
| 80°-90° | 1249.0 | 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° | 50556.0 | 100.0 |
| 0°-180° | 50556.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P458325

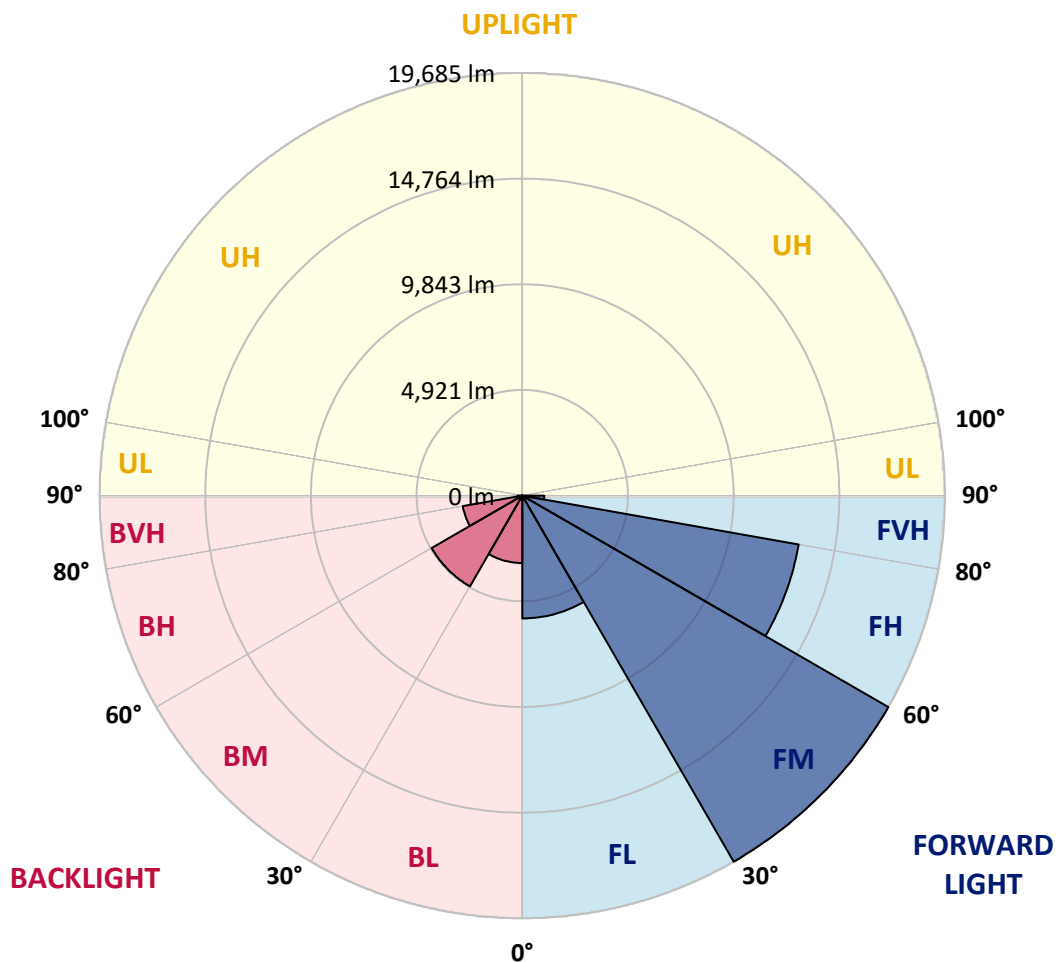
CATALOG NUMBER: GLAN-SA9D-727-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 5718.0 | 11.3 | | | |
| FM | (30°-60°) | 19685.4 | 38.9 | | | |
| FH | (60°-80°) | 13072.9 | 25.9 | | | G5 |
| FVH | (80°-90°) | 1020.7 | 2.0 | | | G5 |
| BL | (0°-30°) | 3138.5 | 6.2 | B4/5000 | | |
| BM | (30°-60°) | 4876.3 | 9.6 | B3/5000 | | |
| BH | (60°-80°) | 2815.9 | 5.6 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 228.2 | 0.5 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type IV Short





REPORT NUMBER: P458325

CATALOG NUMBER: GLAN-SA9D-727-U-SLR

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 |
| 2.5° | 14095.1 | 14041.7 | 13891.6 | 13498.1 | 13101.2 | 12697.6 | 12387.4 | 12000.5 | 11596.9 | 11380.1 | 11103.3 |
| 5° | 14288.5 | 14228.5 | 13875.0 | 12987.8 | 12183.9 | 11340.1 | 10666.4 | 10076.0 | 9835.9 | 9482.3 | 9198.8 |
| 7.5° | 13834.9 | 13808.3 | 13277.9 | 12003.8 | 10903.2 | 9799.2 | 9035.4 | 8561.8 | 8131.5 | 7971.4 | 8004.8 |
| 10° | 13421.4 | 13314.6 | 12650.9 | 10986.6 | 9702.5 | 8805.3 | 8258.3 | 7794.7 | 7491.1 | 7411.1 | 7427.8 |
| 12.5° | 13077.8 | 12934.4 | 12150.6 | 10302.8 | 9178.8 | 8461.7 | 7764.6 | 7281.0 | 7004.2 | 7080.9 | 7341.1 |
| 15° | 13007.8 | 12814.3 | 11940.5 | 10069.4 | 8892.0 | 7968.1 | 7204.3 | 6647.3 | 6440.5 | 6607.3 | 7024.2 |
| 17.5° | 13461.4 | 13217.9 | 12300.7 | 10146.1 | 8618.5 | 7464.5 | 6527.2 | 5890.2 | 5716.7 | 5983.6 | 6527.2 |
| 20° | 14918.9 | 14558.7 | 13424.7 | 10589.7 | 8591.8 | 7214.3 | 6133.7 | 5493.3 | 5566.7 | 6073.6 | 6640.6 |
| 22.5° | 17613.9 | 17073.5 | 15392.5 | 11236.7 | 8731.9 | 7150.9 | 6053.6 | 5720.1 | 6123.7 | 6553.9 | 6927.5 |
| 25° | 18147.5 | 17723.9 | 15746.1 | 11383.5 | 8701.9 | 7107.6 | 6280.4 | 6447.2 | 6897.5 | 7110.9 | 6980.8 |
| 27.5° | 18447.7 | 17964.1 | 15722.7 | 10656.4 | 7781.3 | 6447.2 | 6003.6 | 6280.4 | 6393.8 | 6187.0 | 5833.5 |
| 30° | 19148.1 | 18644.5 | 16119.6 | 9892.6 | 6407.2 | 4782.9 | 4192.5 | 4079.1 | 4155.8 | 4195.8 | 4069.1 |
| 32.5° | 20112.0 | 19615.1 | 16866.7 | 9392.3 | 5540.0 | 3955.7 | 3375.4 | 3215.3 | 3178.6 | 3135.2 | 3085.2 |
| 35° | 21359.4 | 20595.6 | 17600.5 | 9072.1 | 5183.1 | 3658.9 | 3125.2 | 3001.8 | 2951.8 | 2891.7 | 2838.4 |
| 37.5° | 22626.9 | 21826.4 | 18527.7 | 8735.2 | 4946.3 | 3452.1 | 2958.4 | 2901.7 | 2815.0 | 2751.6 | 2674.9 |
| 40° | 23974.3 | 23077.1 | 19371.6 | 8441.7 | 4716.2 | 3318.6 | 2838.4 | 2831.7 | 2718.3 | 2644.9 | 2554.9 |
| 42.5° | 25141.7 | 24217.8 | 20125.4 | 8261.6 | 4539.4 | 3178.6 | 2765.0 | 2785.0 | 2668.3 | 2558.2 | 2441.5 |
| 45° | 26068.9 | 25161.7 | 20822.4 | 8261.6 | 4396.0 | 3038.5 | 2751.6 | 2738.3 | 2621.6 | 2484.8 | 2351.4 |
| 47.5° | 26882.7 | 25945.5 | 21502.8 | 8471.7 | 4305.9 | 2921.7 | 2678.3 | 2701.6 | 2581.5 | 2408.1 | 2278.0 |
| 50° | 27513.1 | 26685.9 | 22420.1 | 8798.6 | 4215.9 | 2828.4 | 2584.9 | 2711.6 | 2548.2 | 2368.1 | 2218.0 |
| 52.5° | 28316.9 | 27576.5 | 23524.1 | 9245.5 | 4139.1 | 2725.0 | 2501.5 | 2711.6 | 2544.9 | 2371.4 | 2208.0 |
| 55° | 29430.9 | 28650.5 | 24854.9 | 9615.7 | 4015.7 | 2628.2 | 2428.1 | 2634.9 | 2534.8 | 2354.7 | 2181.3 |
| 57.5° | 30211.4 | 29627.7 | 25795.4 | 9862.6 | 3839.0 | 2504.8 | 2361.4 | 2561.5 | 2491.5 | 2291.4 | 2101.3 |
| 58° | 30248.1 | 29677.7 | 25932.2 | 9919.3 | 3795.6 | 2481.5 | 2344.7 | 2528.2 | 2471.5 | 2264.7 | 2074.6 |
| 60° | 29827.8 | 29337.5 | 25958.8 | 9839.2 | 3548.8 | 2364.7 | 2258.0 | 2391.4 | 2364.7 | 2107.9 | 1931.2 |
| 62.5° | 28300.2 | 27776.6 | 24881.5 | 9188.8 | 3221.9 | 2221.3 | 2124.6 | 2208.0 | 2148.0 | 1887.8 | 1724.4 |
| 65° | 26128.9 | 25165.0 | 22666.9 | 8168.2 | 2988.5 | 2067.9 | 1944.5 | 1951.2 | 1887.8 | 1701.0 | 1557.6 |
| 67.5° | 23237.2 | 22159.9 | 19191.5 | 6884.1 | 2811.7 | 1897.8 | 1731.0 | 1714.4 | 1637.6 | 1517.6 | 1400.8 |
| 70° | 19678.4 | 18941.3 | 15596.0 | 5600.0 | 2614.9 | 1711.0 | 1490.9 | 1480.9 | 1434.2 | 1344.1 | 1240.7 |
| 72.5° | 15949.5 | 15012.3 | 12594.2 | 4482.7 | 2374.8 | 1530.9 | 1267.4 | 1287.4 | 1227.4 | 1164.0 | 1070.6 |
| 75° | 11770.4 | 11156.7 | 9735.8 | 3595.5 | 2051.2 | 1334.1 | 1057.3 | 1064.0 | 1037.3 | 970.6 | 897.2 |
| 77.5° | 7751.3 | 7567.9 | 6964.2 | 2361.4 | 1577.6 | 1060.6 | 863.8 | 870.5 | 850.5 | 790.5 | 713.8 |
| 80° | 5216.5 | 5093.0 | 4719.5 | 1520.9 | 1054.0 | 767.1 | 667.1 | 673.7 | 670.4 | 607.0 | 503.6 |
| 82.5° | 3215.3 | 3161.9 | 3041.8 | 1027.3 | 730.4 | 550.3 | 440.3 | 460.3 | 497.0 | 426.9 | 343.5 |
| 85° | 1517.6 | 1520.9 | 1837.8 | 560.3 | 430.3 | 353.5 | 240.1 | 256.8 | 256.8 | 256.8 | 193.4 |
| 87.5° | 196.8 | 206.8 | 253.5 | 236.8 | 156.8 | 133.4 | 86.7 | 73.4 | 63.4 | 83.4 | 60.0 |
| 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: P458325

CATALOG NUMBER: GLAN-SA9D-727-U-SLR

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 |
| 2.5° | 11006.6 | 10939.9 | 10796.5 | 10763.1 | 10743.1 | 10799.8 | 10649.7 | 10689.7 | 10623.0 | 10809.8 | 10779.8 |
| 5° | 9215.5 | 9222.2 | 9338.9 | 9415.6 | 9442.3 | 9415.6 | 9315.6 | 9142.1 | 9008.7 | 8955.4 | 8968.7 |
| 7.5° | 7941.4 | 8058.1 | 8258.3 | 8481.7 | 8685.2 | 8745.2 | 8688.5 | 8358.3 | 7998.1 | 7771.3 | 7697.9 |
| 10° | 7517.8 | 7674.6 | 7904.7 | 8081.5 | 8261.6 | 8405.0 | 8435.0 | 8178.2 | 7751.3 | 7214.3 | 7004.2 |
| 12.5° | 7541.2 | 7754.6 | 7974.8 | 8031.5 | 8014.8 | 8071.5 | 8044.8 | 8001.4 | 7721.3 | 7037.5 | 6687.3 |
| 15° | 7321.0 | 7574.5 | 7728.0 | 7697.9 | 7644.6 | 7594.5 | 7524.5 | 7414.4 | 7314.4 | 6834.1 | 6447.2 |
| 17.5° | 6814.1 | 7074.2 | 7201.0 | 7211.0 | 7211.0 | 7197.6 | 7027.5 | 6987.5 | 6974.2 | 6740.7 | 6503.9 |
| 20° | 6907.5 | 7050.9 | 6994.2 | 6900.8 | 6927.5 | 7017.5 | 6917.5 | 6897.5 | 6974.2 | 7077.6 | 7034.2 |
| 22.5° | 6960.8 | 6910.8 | 6483.9 | 6070.3 | 5976.9 | 6257.1 | 6313.8 | 6537.2 | 6847.4 | 7221.0 | 7464.5 |
| 25° | 6630.6 | 6227.1 | 5463.3 | 4996.3 | 4732.8 | 4993.0 | 5333.2 | 5746.8 | 6210.4 | 6690.7 | 6974.2 |
| 27.5° | 5543.3 | 5236.5 | 4689.5 | 4269.2 | 4039.1 | 4079.1 | 4369.3 | 4746.2 | 5176.4 | 5500.0 | 5706.7 |
| 30° | 4175.8 | 4039.1 | 3755.6 | 3612.2 | 3472.1 | 3438.7 | 3562.1 | 3705.5 | 3895.7 | 3935.7 | 3989.1 |
| 32.5° | 3075.2 | 3055.2 | 3071.8 | 3025.1 | 2998.5 | 2995.1 | 2958.4 | 2991.8 | 3011.8 | 3035.1 | 2988.5 |
| 35° | 2781.7 | 2755.0 | 2708.3 | 2694.9 | 2678.3 | 2684.9 | 2668.3 | 2651.6 | 2664.9 | 2684.9 | 2698.3 |
| 37.5° | 2631.6 | 2591.5 | 2524.8 | 2501.5 | 2501.5 | 2511.5 | 2484.8 | 2478.1 | 2501.5 | 2564.9 | 2598.2 |
| 40° | 2514.8 | 2468.1 | 2391.4 | 2361.4 | 2381.4 | 2408.1 | 2371.4 | 2358.1 | 2414.8 | 2481.5 | 2534.8 |
| 42.5° | 2404.8 | 2368.1 | 2294.7 | 2261.4 | 2278.0 | 2328.1 | 2274.7 | 2264.7 | 2338.1 | 2411.4 | 2474.8 |
| 45° | 2311.4 | 2274.7 | 2208.0 | 2191.3 | 2198.0 | 2244.7 | 2208.0 | 2208.0 | 2278.0 | 2358.1 | 2414.8 |
| 47.5° | 2238.0 | 2191.3 | 2148.0 | 2134.6 | 2141.3 | 2168.0 | 2161.3 | 2161.3 | 2228.0 | 2311.4 | 2368.1 |
| 50° | 2164.6 | 2124.6 | 2067.9 | 2074.6 | 2091.2 | 2127.9 | 2124.6 | 2134.6 | 2201.3 | 2304.7 | 2364.7 |
| 52.5° | 2131.3 | 2071.2 | 2007.9 | 2014.5 | 2064.6 | 2107.9 | 2094.6 | 2104.6 | 2181.3 | 2374.8 | 2461.5 |
| 55° | 2094.6 | 2014.5 | 1941.2 | 1951.2 | 2007.9 | 2071.2 | 2054.6 | 2067.9 | 2158.0 | 2421.4 | 2541.5 |
| 57.5° | 2024.5 | 1931.2 | 1851.1 | 1857.8 | 1941.2 | 2007.9 | 1981.2 | 1997.9 | 2104.6 | 2371.4 | 2498.2 |
| 58° | 1994.5 | 1914.5 | 1837.8 | 1841.1 | 1921.1 | 1994.5 | 1964.5 | 1977.8 | 2087.9 | 2358.1 | 2478.1 |
| 60° | 1867.8 | 1821.1 | 1754.4 | 1757.7 | 1834.4 | 1897.8 | 1881.1 | 1894.5 | 2001.2 | 2261.4 | 2351.4 |
| 62.5° | 1694.3 | 1667.7 | 1651.0 | 1651.0 | 1697.7 | 1757.7 | 1774.4 | 1791.1 | 1887.8 | 2044.6 | 2124.6 |
| 65° | 1507.6 | 1507.6 | 1510.9 | 1510.9 | 1540.9 | 1617.6 | 1627.6 | 1671.0 | 1761.1 | 1837.8 | 1897.8 |
| 67.5° | 1380.8 | 1374.2 | 1380.8 | 1364.1 | 1377.5 | 1424.2 | 1474.2 | 1514.2 | 1607.6 | 1661.0 | 1681.0 |
| 70° | 1217.4 | 1214.1 | 1217.4 | 1194.0 | 1210.7 | 1250.7 | 1284.1 | 1350.8 | 1447.5 | 1487.6 | 1497.6 |
| 72.5° | 1057.3 | 1057.3 | 1064.0 | 1047.3 | 1047.3 | 1090.7 | 1114.0 | 1187.4 | 1277.4 | 1300.8 | 1304.1 |
| 75° | 890.5 | 900.5 | 900.5 | 877.2 | 883.9 | 910.5 | 940.6 | 1000.6 | 1084.0 | 1100.7 | 1100.7 |
| 77.5° | 707.1 | 743.8 | 743.8 | 720.4 | 730.4 | 733.8 | 773.8 | 803.8 | 867.2 | 873.9 | 847.2 |
| 80° | 513.6 | 550.3 | 580.3 | 560.3 | 577.0 | 557.0 | 580.3 | 600.4 | 663.7 | 633.7 | 590.4 |
| 82.5° | 366.9 | 393.6 | 416.9 | 420.3 | 403.6 | 366.9 | 396.9 | 400.2 | 430.3 | 390.2 | 366.9 |
| 85° | 203.5 | 226.8 | 256.8 | 243.5 | 216.8 | 193.4 | 203.5 | 210.1 | 206.8 | 196.8 | 183.4 |
| 87.5° | 53.4 | 56.7 | 63.4 | 46.7 | 43.4 | 36.7 | 50.0 | 50.0 | 56.7 | 60.0 | 56.7 |
| 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: P458325

CATALOG NUMBER: GLAN-SA9D-727-U-SLR

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 |
| 2.5° | 10803.1 | 10949.9 | 11266.7 | 11506.9 | 11800.4 | 12157.3 | 12577.5 | 13001.1 | 13458.0 | 13601.5 | 13801.6 |
| 5° | 8938.7 | 9305.6 | 9459.0 | 9895.9 | 10329.5 | 10979.9 | 11673.6 | 12477.5 | 13358.0 | 13781.6 | 14188.5 |
| 7.5° | 7637.9 | 7834.7 | 7994.8 | 8315.0 | 8835.3 | 9625.8 | 10496.3 | 11500.2 | 12747.6 | 13364.7 | 13961.7 |
| 10° | 6937.5 | 6957.5 | 7154.3 | 7551.2 | 8004.8 | 8701.9 | 9525.7 | 10649.7 | 12040.5 | 12791.0 | 13491.4 |
| 12.5° | 6473.9 | 6387.1 | 6600.6 | 7014.2 | 7527.8 | 8171.5 | 8928.7 | 9999.3 | 11530.2 | 12300.7 | 13147.9 |
| 15° | 6067.0 | 5930.2 | 6090.3 | 6513.9 | 7020.9 | 7778.0 | 8591.8 | 9725.8 | 11330.1 | 12227.3 | 13167.9 |
| 17.5° | 6077.0 | 5700.1 | 5756.8 | 6113.7 | 6617.3 | 7387.7 | 8375.0 | 9715.8 | 11633.6 | 12667.6 | 13781.6 |
| 20° | 6827.4 | 6223.7 | 5966.9 | 6033.6 | 6520.6 | 7361.1 | 8475.1 | 10182.8 | 12630.9 | 14138.4 | 15329.2 |
| 22.5° | 7564.5 | 7201.0 | 6787.4 | 6650.6 | 6917.5 | 7798.0 | 9112.1 | 11286.7 | 14798.8 | 17070.2 | 19221.5 |
| 25° | 7307.7 | 7617.9 | 7514.5 | 7321.0 | 7381.1 | 8111.5 | 9545.7 | 12194.0 | 16483.2 | 19041.4 | 21062.6 |
| 27.5° | 5846.8 | 6410.5 | 6523.9 | 6520.6 | 6543.9 | 7144.3 | 8585.1 | 11583.6 | 16693.3 | 19418.3 | 21349.4 |
| 30° | 4109.1 | 4159.2 | 4219.2 | 4335.9 | 4442.7 | 4979.6 | 6717.3 | 10169.4 | 16599.9 | 19588.4 | 21522.9 |
| 32.5° | 2965.1 | 3031.8 | 3115.2 | 3275.3 | 3528.8 | 4212.5 | 5876.8 | 9719.1 | 17093.5 | 20292.1 | 22029.8 |
| 35° | 2711.6 | 2788.3 | 2868.4 | 3051.8 | 3292.0 | 3925.7 | 5543.3 | 9532.4 | 17904.0 | 21432.8 | 22940.4 |
| 37.5° | 2631.6 | 2718.3 | 2788.3 | 2921.7 | 3115.2 | 3718.9 | 5239.8 | 9405.6 | 18734.5 | 22640.2 | 24161.1 |
| 40° | 2574.9 | 2674.9 | 2731.6 | 2838.4 | 2971.8 | 3528.8 | 4969.6 | 9305.6 | 19538.3 | 23744.2 | 25141.7 |
| 42.5° | 2524.8 | 2628.2 | 2701.6 | 2778.3 | 2888.4 | 3358.7 | 4729.5 | 9205.5 | 20235.4 | 24814.8 | 26118.9 |
| 45° | 2464.8 | 2594.9 | 2688.3 | 2748.3 | 2845.0 | 3215.3 | 4546.0 | 9125.5 | 21029.2 | 25765.4 | 27106.2 |
| 47.5° | 2414.8 | 2558.2 | 2674.9 | 2745.0 | 2781.7 | 3115.2 | 4399.3 | 9235.5 | 21983.1 | 26759.3 | 28023.4 |
| 50° | 2418.1 | 2554.9 | 2701.6 | 2811.7 | 2715.0 | 3031.8 | 4309.2 | 9672.4 | 23223.9 | 27940.0 | 28747.2 |
| 52.5° | 2524.8 | 2691.6 | 2808.3 | 2835.0 | 2621.6 | 2931.8 | 4262.5 | 10436.2 | 24691.4 | 28984.0 | 29477.6 |
| 55° | 2644.9 | 2818.4 | 2945.1 | 2928.4 | 2571.5 | 2805.0 | 4252.5 | 11250.1 | 26299.0 | 30201.4 | 30428.2 |
| 57.5° | 2601.6 | 2855.0 | 3048.5 | 2961.8 | 2574.9 | 2681.6 | 4209.2 | 11907.1 | 27643.2 | 31111.9 | 31368.7 |
| 58° | 2588.2 | 2841.7 | 3061.8 | 2955.1 | 2564.9 | 2644.9 | 4199.2 | 11963.8 | 27830.0 | 31175.3 | 31502.2 |
| 60° | 2458.1 | 2725.0 | 3051.8 | 2905.1 | 2508.2 | 2544.9 | 4089.1 | 12147.3 | 27779.9 | 30848.4 | 31582.2 |
| 62.5° | 2221.3 | 2441.5 | 2821.7 | 2661.6 | 2334.7 | 2411.4 | 3842.3 | 11920.5 | 26425.8 | 29274.2 | 30411.5 |
| 65° | 1954.5 | 2117.9 | 2371.4 | 2341.4 | 2087.9 | 2274.7 | 3505.4 | 11023.3 | 23714.2 | 26719.3 | 27916.7 |
| 67.5° | 1754.4 | 1887.8 | 2047.9 | 2004.5 | 1877.8 | 2091.2 | 3141.9 | 9505.7 | 20672.4 | 23650.8 | 25158.4 |
| 70° | 1550.9 | 1654.3 | 1734.4 | 1704.4 | 1664.3 | 1911.1 | 2818.4 | 7714.6 | 17757.3 | 20735.7 | 22196.6 |
| 72.5° | 1344.1 | 1440.9 | 1507.6 | 1464.2 | 1440.9 | 1721.0 | 2554.9 | 5986.9 | 14025.0 | 17106.9 | 18984.7 |
| 75° | 1124.0 | 1220.7 | 1267.4 | 1217.4 | 1204.1 | 1517.6 | 2164.6 | 4472.7 | 10523.0 | 13187.9 | 14808.8 |
| 77.5° | 870.5 | 973.9 | 1034.0 | 1017.3 | 1023.9 | 1247.4 | 1747.7 | 3061.8 | 7524.5 | 8988.7 | 10696.4 |
| 80° | 610.4 | 723.8 | 763.8 | 747.1 | 793.8 | 950.6 | 1234.1 | 1944.5 | 5189.8 | 5833.5 | 7037.5 |
| 82.5° | 376.9 | 483.6 | 490.3 | 507.0 | 540.3 | 703.8 | 930.6 | 1184.0 | 3258.6 | 3368.7 | 4242.5 |
| 85° | 190.1 | 230.1 | 246.8 | 273.5 | 303.5 | 430.3 | 530.3 | 733.8 | 2097.9 | 1587.6 | 2371.4 |
| 87.5° | 63.4 | 66.7 | 80.0 | 100.1 | 123.4 | 176.8 | 226.8 | 300.2 | 520.3 | 286.8 | 733.8 |
| 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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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 | 12687.6 |
| 2.5° | 14205.2 | 14488.7 | 14695.4 | 14885.6 | 14702.1 | 14685.4 | 14505.3 | 14215.2 | 14095.1 | 14095.1 |
| 5° | 15042.3 | 15706.1 | 16243.0 | 16586.6 | 16439.8 | 16086.3 | 15502.6 | 14758.8 | 14358.6 | 14288.5 |
| 7.5° | 15272.5 | 16583.2 | 17580.5 | 17934.0 | 17687.2 | 16906.8 | 15789.4 | 14535.4 | 13961.7 | 13834.9 |
| 10° | 15132.4 | 16836.7 | 18300.9 | 18861.3 | 18517.7 | 17337.0 | 15812.8 | 14275.2 | 13568.1 | 13421.4 |
| 12.5° | 14985.6 | 16870.1 | 18434.3 | 19244.8 | 19021.4 | 17683.9 | 15982.9 | 14105.1 | 13287.9 | 13077.8 |
| 15° | 15092.4 | 16883.4 | 18270.9 | 19108.1 | 19251.5 | 18100.8 | 16263.1 | 14228.5 | 13231.2 | 13007.8 |
| 17.5° | 15766.1 | 17136.9 | 18037.4 | 18714.5 | 19218.1 | 18667.8 | 17060.2 | 14818.9 | 13738.2 | 13461.4 |
| 20° | 17173.6 | 17743.9 | 18170.9 | 18694.5 | 19505.0 | 19825.2 | 18691.2 | 16439.8 | 15162.4 | 14918.9 |
| 22.5° | 21249.4 | 21146.0 | 20272.1 | 20262.1 | 21436.1 | 22720.2 | 22643.5 | 19735.1 | 17814.0 | 17613.9 |
| 25° | 22776.9 | 22296.7 | 21032.6 | 20725.7 | 21242.7 | 23223.9 | 22937.0 | 20408.9 | 18634.5 | 18147.5 |
| 27.5° | 22179.9 | 20989.2 | 20158.7 | 20088.7 | 19918.6 | 21789.7 | 22480.1 | 20682.4 | 18921.3 | 18447.7 |
| 30° | 22143.2 | 20392.2 | 19204.8 | 19344.9 | 19508.3 | 21296.1 | 22733.6 | 21539.5 | 19655.1 | 19148.1 |
| 32.5° | 22233.3 | 20475.6 | 19274.9 | 19301.5 | 19788.5 | 21369.4 | 23013.8 | 22473.4 | 20619.0 | 20112.0 |
| 35° | 22596.8 | 20949.2 | 19721.8 | 19658.4 | 20418.9 | 21849.7 | 23490.7 | 23941.0 | 21936.4 | 21359.4 |
| 37.5° | 23183.9 | 21893.1 | 20538.9 | 20522.3 | 21626.3 | 22716.9 | 24084.4 | 25421.9 | 23247.2 | 22626.9 |
| 40° | 24047.7 | 22997.1 | 21993.1 | 21903.1 | 23267.2 | 24127.8 | 24854.9 | 26999.5 | 24771.5 | 23974.3 |
| 42.5° | 25091.7 | 24321.2 | 23911.0 | 24267.8 | 25578.6 | 25712.0 | 26055.6 | 28457.0 | 26068.9 | 25141.7 |
| 45° | 26058.9 | 26022.2 | 26592.6 | 27539.8 | 28303.6 | 27503.1 | 27309.7 | 29434.3 | 27076.2 | 26068.9 |
| 47.5° | 27209.6 | 28203.5 | 29924.5 | 31312.0 | 32112.5 | 29587.7 | 28380.3 | 30071.3 | 27810.0 | 26882.7 |
| 50° | 28377.0 | 30815.1 | 33563.4 | 35497.9 | 35668.0 | 31852.4 | 29117.4 | 30671.7 | 28477.0 | 27513.1 |
| 52.5° | 29604.4 | 32899.7 | 36558.5 | 38806.5 | 38476.3 | 33823.5 | 29831.2 | 31078.6 | 29164.1 | 28316.9 |
| 55° | 30671.7 | 34177.1 | 38232.8 | 40390.8 | 39907.2 | 35024.3 | 30601.6 | 31518.8 | 30144.7 | 29430.9 |
| 57.5° | 31268.7 | 34283.8 | 37815.9 | 39700.4 | 39176.7 | 34790.8 | 30955.2 | 31845.7 | 30771.7 | 30211.4 |
| 58° | 31355.4 | 34140.4 | 37445.7 | 39300.1 | 38766.5 | 34594.0 | 30951.8 | 31832.4 | 30811.7 | 30248.1 |
| 60° | 31278.7 | 33209.8 | 36068.2 | 37719.2 | 37158.9 | 33359.9 | 30825.1 | 31582.2 | 30304.8 | 29827.8 |
| 62.5° | 30568.3 | 31595.5 | 33690.1 | 34890.8 | 34730.8 | 31432.1 | 30304.8 | 30638.3 | 28760.5 | 28300.2 |
| 65° | 29634.4 | 29394.2 | 30645.0 | 31495.5 | 31615.6 | 29987.9 | 29787.8 | 28597.1 | 26779.3 | 26128.9 |
| 67.5° | 28500.4 | 26899.4 | 26896.1 | 27379.7 | 27579.8 | 27766.6 | 28710.5 | 26379.1 | 23924.3 | 23237.2 |
| 70° | 26575.9 | 23053.8 | 21993.1 | 22563.5 | 22396.7 | 23974.3 | 26786.0 | 23263.9 | 20482.2 | 19678.4 |
| 72.5° | 23047.1 | 18294.3 | 16596.6 | 17330.4 | 16910.1 | 18801.2 | 23437.3 | 19144.8 | 16936.8 | 15949.5 |
| 75° | 18681.2 | 13684.8 | 11933.8 | 12607.5 | 12347.4 | 14261.9 | 19501.7 | 13905.0 | 12147.3 | 11770.4 |
| 77.5° | 14505.3 | 9915.9 | 8898.7 | 8805.3 | 8998.7 | 10613.0 | 14305.2 | 9388.9 | 8008.1 | 7751.3 |
| 80° | 9318.9 | 7097.6 | 7157.6 | 7037.5 | 7137.6 | 6690.7 | 8685.2 | 5990.2 | 5423.2 | 5216.5 |
| 82.5° | 6133.7 | 4946.3 | 5896.9 | 5443.3 | 5169.8 | 4499.4 | 5696.7 | 3922.3 | 3328.7 | 3215.3 |
| 85° | 4179.2 | 3642.2 | 3315.3 | 2534.8 | 2985.1 | 3465.4 | 4272.6 | 2111.3 | 1674.3 | 1517.6 |
| 87.5° | 1887.8 | 1267.4 | 930.6 | 573.7 | 907.2 | 1047.3 | 2074.6 | 246.8 | 190.1 | 196.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)