

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: P457408

Luminaire Tested: **GLAN-SA8D-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457408
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-SA8D-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 52127 lumens
Efficiency: N/A
Efficacy: 105.7 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

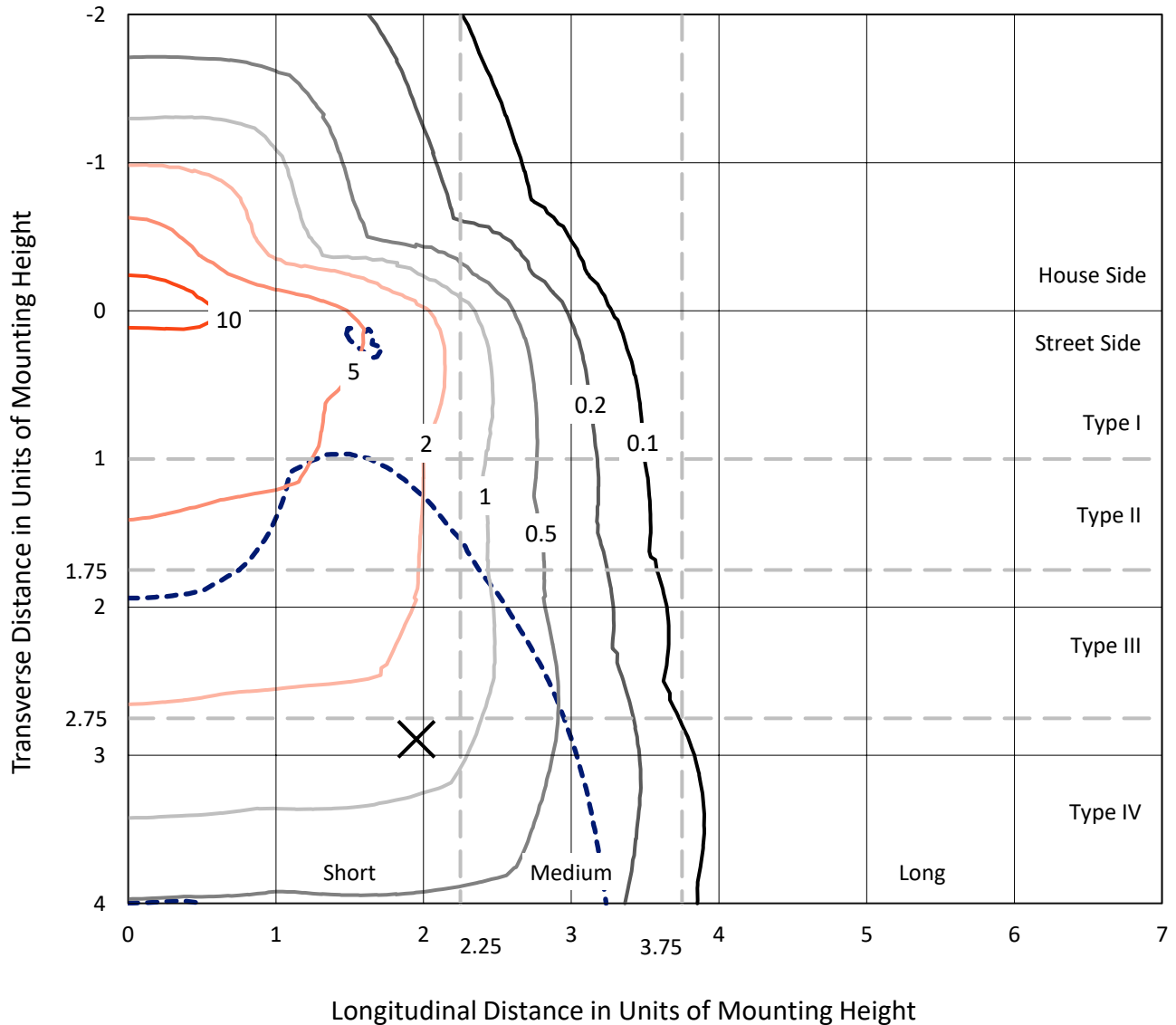
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

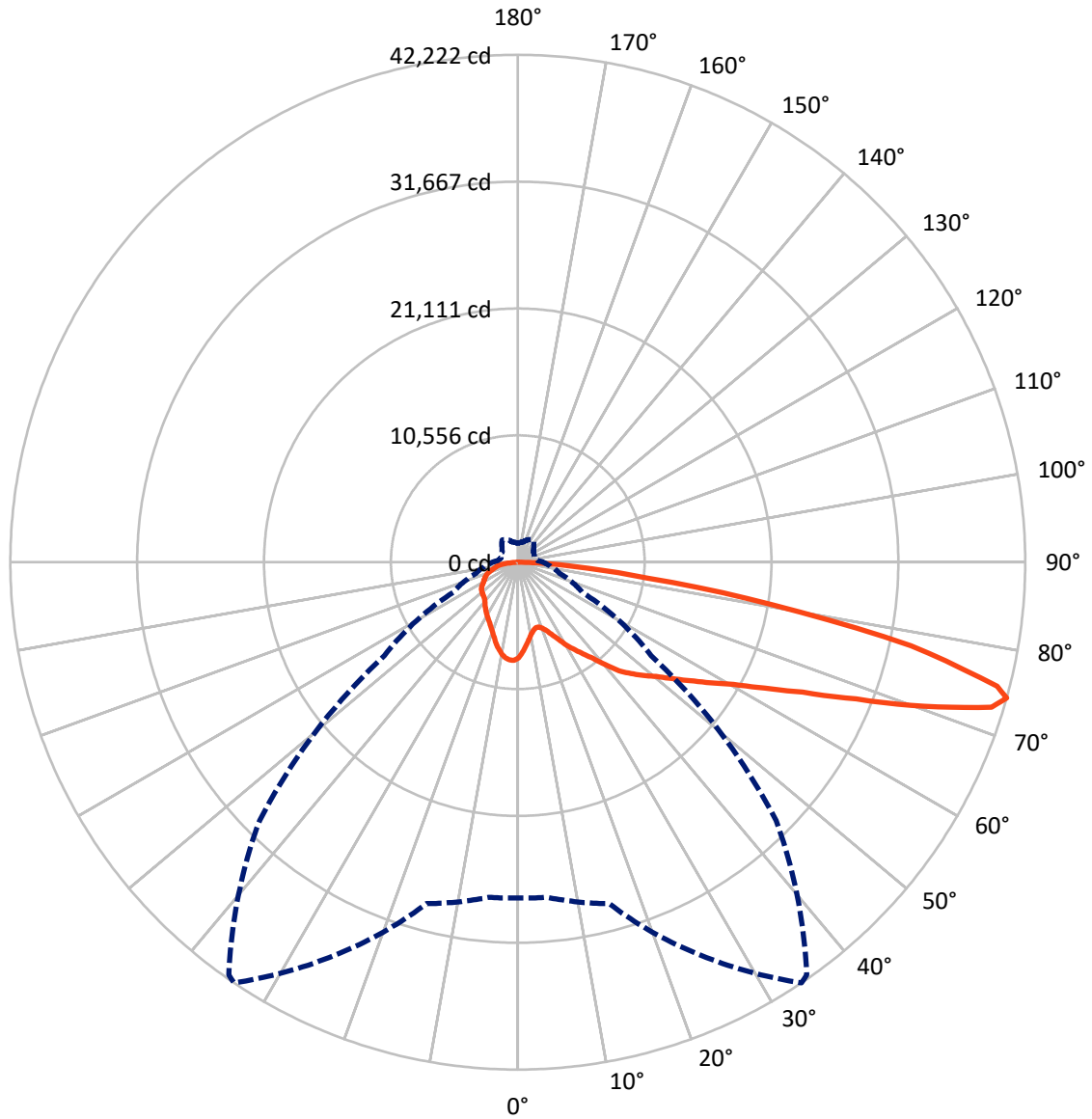
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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 | 11093.0 | 0.0 | 11093.0 |
| | % Fixture | 21.3 | 0.0 | 21.3 |
| Street Side | Lumens | 41034.0 | 0.0 | 41034.0 |
| | % Fixture | 78.7 | 0.0 | 78.7 |
| Total | Lumens | 52127.0 | 0.0 | 52127.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 723.8 | 1.4 |
| 10°-20° | 1981.4 | 3.8 |
| 20°-30° | 3266.8 | 6.3 |
| 30°-40° | 4893.3 | 9.4 |
| 40°-50° | 7113.6 | 13.6 |
| 50°-60° | 9936.0 | 19.1 |
| 60°-70° | 12439.3 | 23.9 |
| 70°-80° | 10286.3 | 19.7 |
| 80°-90° | 1486.3 | 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° | 52127.0 | 100.0 |
| 0°-180° | 52127.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P457408

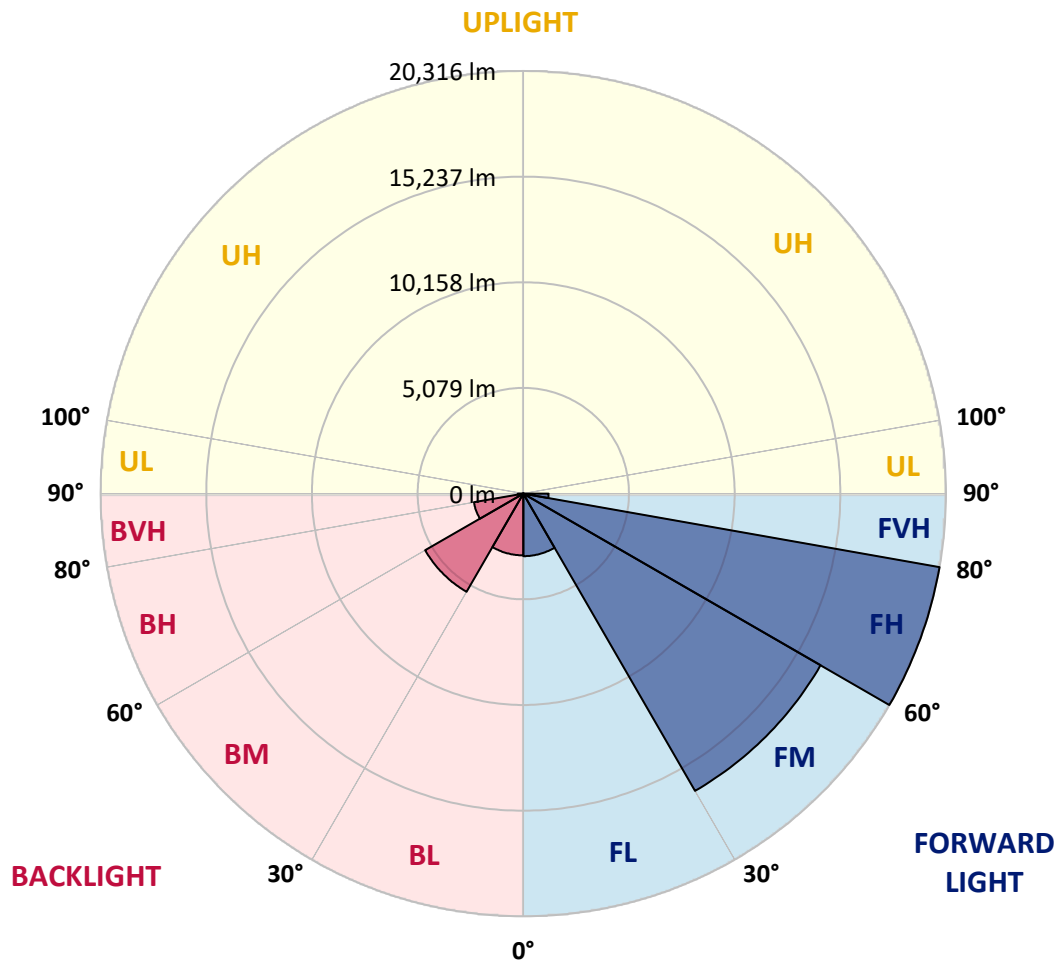
CATALOG NUMBER: GLAN-SA8D-727-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3004.9 | 5.8 | | | |
| FM | (30°-60°) | 16495.1 | 31.6 | | | |
| FH | (60°-80°) | 20316.4 | 39.0 | | | G5 |
| FVH | (80°-90°) | 1217.6 | 2.3 | | | G5 |
| BL | (0°-30°) | 2967.2 | 5.7 | B4/5000 | | |
| BM | (30°-60°) | 5447.8 | 10.5 | B4/8500 | | |
| BH | (60°-80°) | 2409.3 | 4.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 268.7 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7958.8 | 7958.8 | 7958.8 | 7958.8 | 7958.8 | 7958.8 | 7958.8 | 7958.8 | 7958.8 | 7958.8 | 7958.8 |
| 2.5° | 7355.2 | 7392.8 | 7413.0 | 7485.2 | 7502.5 | 7525.6 | 7586.2 | 7667.1 | 7771.1 | 7863.5 | 7944.3 |
| 5° | 6743.0 | 6800.8 | 6835.4 | 6898.9 | 7023.1 | 7034.7 | 7196.4 | 7381.2 | 7592.0 | 7788.4 | 7950.1 |
| 7.5° | 6162.6 | 6226.1 | 6255.0 | 6370.5 | 6535.1 | 6561.1 | 6797.9 | 7089.5 | 7441.8 | 7739.3 | 7987.6 |
| 10° | 5726.5 | 5758.3 | 5821.8 | 5908.4 | 6104.8 | 6122.1 | 6431.1 | 6821.0 | 7277.2 | 7716.2 | 8051.2 |
| 12.5° | 5489.7 | 5507.0 | 5521.5 | 5613.9 | 5807.4 | 5833.3 | 6156.8 | 6598.6 | 7147.3 | 7733.5 | 8155.1 |
| 15° | 5524.4 | 5530.1 | 5466.6 | 5483.9 | 5639.9 | 5677.4 | 5997.9 | 6451.3 | 7066.4 | 7776.8 | 8311.1 |
| 17.5° | 5816.0 | 5795.8 | 5639.9 | 5559.0 | 5668.7 | 5686.1 | 5966.2 | 6393.6 | 7028.9 | 7857.7 | 8472.8 |
| 20° | 6275.2 | 6246.3 | 5977.7 | 5798.7 | 5862.2 | 5876.7 | 6070.1 | 6436.9 | 7066.4 | 7990.5 | 8724.0 |
| 22.5° | 6847.0 | 6835.4 | 6428.2 | 6211.6 | 6208.8 | 6208.8 | 6309.8 | 6592.8 | 7179.1 | 8172.5 | 8986.8 |
| 25° | 7646.9 | 7586.2 | 7054.9 | 6774.8 | 6696.8 | 6691.0 | 6679.5 | 6849.8 | 7323.4 | 8365.9 | 9298.7 |
| 27.5° | 8467.0 | 8363.1 | 7889.5 | 7459.2 | 7291.7 | 7271.5 | 7196.4 | 7213.7 | 7508.3 | 8585.4 | 9653.9 |
| 30° | 9203.4 | 9137.0 | 8692.3 | 8215.8 | 8016.5 | 7970.3 | 7762.4 | 7667.1 | 7817.3 | 8981.0 | 10219.9 |
| 32.5° | 9766.5 | 9726.1 | 9379.6 | 8946.4 | 8651.8 | 8643.2 | 8340.0 | 8262.0 | 8299.5 | 9460.4 | 10866.8 |
| 35° | 10222.8 | 10237.2 | 10061.1 | 9685.7 | 9347.8 | 9298.7 | 9096.6 | 8998.4 | 8888.6 | 10153.5 | 11681.1 |
| 37.5° | 10846.6 | 10878.3 | 10866.8 | 10543.3 | 10130.4 | 10141.9 | 10095.7 | 9934.0 | 9642.3 | 10927.4 | 12585.0 |
| 40° | 11533.9 | 11557.0 | 11554.1 | 11429.9 | 11213.3 | 11224.9 | 11207.5 | 11022.7 | 10586.7 | 11912.2 | 13590.0 |
| 42.5° | 12483.9 | 12374.2 | 12088.3 | 12212.5 | 12339.5 | 12394.4 | 12512.8 | 12336.7 | 11738.9 | 12963.3 | 14534.3 |
| 45° | 13546.6 | 13338.7 | 12691.9 | 12749.6 | 13220.3 | 13324.3 | 13976.9 | 13734.4 | 12989.3 | 14170.4 | 15646.1 |
| 47.5° | 14216.6 | 14011.6 | 13465.8 | 13454.2 | 14078.0 | 14179.1 | 15334.2 | 15244.7 | 14127.1 | 15472.8 | 17003.3 |
| 50° | 14814.4 | 14785.5 | 14170.4 | 14317.7 | 14927.0 | 15077.2 | 16812.7 | 16729.0 | 15262.0 | 17009.1 | 18481.9 |
| 52.5° | 15700.9 | 15467.0 | 14976.1 | 15279.3 | 16085.0 | 16281.4 | 18279.7 | 18034.3 | 16304.5 | 18366.4 | 19917.1 |
| 55° | 16099.5 | 16044.6 | 16015.7 | 16278.5 | 17384.5 | 17526.0 | 19706.3 | 19143.2 | 17193.9 | 19515.7 | 21008.7 |
| 57.5° | 17165.1 | 17064.0 | 17349.9 | 17528.9 | 18915.1 | 19131.6 | 21196.4 | 20301.2 | 17973.6 | 20428.3 | 21540.1 |
| 60° | 18545.4 | 18490.5 | 18753.3 | 19076.8 | 20624.6 | 20953.8 | 22894.4 | 21288.8 | 18600.3 | 20887.4 | 21248.4 |
| 62.5° | 20607.3 | 20601.5 | 20552.4 | 21245.5 | 23047.5 | 23350.7 | 24843.7 | 22250.5 | 18698.5 | 20543.8 | 19741.0 |
| 65° | 23564.4 | 23460.4 | 23033.0 | 23789.7 | 26062.3 | 26417.5 | 26873.8 | 22787.6 | 18106.5 | 18779.3 | 16622.1 |
| 67.5° | 26657.2 | 26651.5 | 26304.9 | 27286.8 | 30391.2 | 30757.9 | 29412.2 | 22669.2 | 16463.3 | 15212.9 | 11805.3 |
| 70° | 29221.6 | 29097.4 | 29539.3 | 32155.6 | 35921.3 | 36345.8 | 31632.9 | 21274.4 | 13113.5 | 10046.6 | 7014.5 |
| 72.5° | 29836.7 | 29842.5 | 30760.8 | 35909.7 | 41231.9 | 41298.4 | 32432.8 | 17243.0 | 8776.0 | 5541.7 | 3508.7 |
| 74° | 27942.3 | 27991.4 | 29415.1 | 36097.4 | 42222.4 | 41922.1 | 30388.3 | 13552.4 | 5934.4 | 3618.4 | 2529.7 |
| 75° | 25505.0 | 25196.0 | 27255.0 | 34847.0 | 41194.4 | 40871.0 | 27994.3 | 10875.4 | 4528.1 | 2890.7 | 2214.9 |
| 77.5° | 13636.2 | 13950.9 | 17127.5 | 26004.6 | 33466.7 | 33094.1 | 18981.5 | 5215.4 | 2446.0 | 2012.8 | 1594.1 |
| 80° | 4854.4 | 5354.0 | 7525.6 | 13607.3 | 21456.3 | 21571.8 | 9059.0 | 2391.1 | 1721.1 | 1484.3 | 1126.2 |
| 82.5° | 1981.0 | 2035.9 | 3231.4 | 6038.4 | 10895.6 | 10999.6 | 3699.3 | 1420.8 | 1230.2 | 1022.3 | 672.9 |
| 85° | 773.9 | 797.0 | 1429.5 | 2714.5 | 4649.3 | 4952.6 | 1279.3 | 750.8 | 756.6 | 586.2 | 343.6 |
| 87.5° | 259.9 | 294.6 | 586.2 | 903.9 | 1579.6 | 1547.9 | 372.5 | 222.4 | 271.5 | 254.1 | 106.8 |
| 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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 CATALOG NUMBER: GLAN-SA8D-727-U-T4FT

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7958.8 | 7958.8 | 7958.8 | 7958.8 | 7958.8 | 7958.8 | 7958.8 | 7958.8 | 7958.8 | 7958.8 | 7958.8 |
| 2.5° | 7984.8 | 8039.6 | 8077.2 | 8117.6 | 8155.1 | 8166.7 | 8158.0 | 8184.0 | 8186.9 | 8189.8 | 8192.7 |
| 5° | 8031.0 | 8106.0 | 8178.2 | 8218.7 | 8236.0 | 8221.6 | 8172.5 | 8146.5 | 8123.4 | 8106.0 | 8111.8 |
| 7.5° | 8094.5 | 8201.3 | 8267.8 | 8285.1 | 8238.9 | 8172.5 | 8051.2 | 7955.9 | 7895.2 | 7854.8 | 7851.9 |
| 10° | 8192.7 | 8296.6 | 8351.5 | 8302.4 | 8175.3 | 8013.6 | 7823.0 | 7644.0 | 7508.3 | 7467.8 | 7464.9 |
| 12.5° | 8316.8 | 8435.2 | 8432.4 | 8288.0 | 8065.6 | 7776.8 | 7467.8 | 7259.9 | 7075.1 | 6982.7 | 7020.2 |
| 15° | 8478.6 | 8568.1 | 8484.3 | 8224.4 | 7872.1 | 7476.5 | 7095.3 | 6812.3 | 6604.4 | 6506.2 | 6512.0 |
| 17.5° | 8666.3 | 8744.2 | 8521.9 | 8111.8 | 7600.7 | 7092.4 | 6650.6 | 6382.0 | 6217.4 | 6145.2 | 6139.5 |
| 20° | 8900.2 | 8923.3 | 8521.9 | 7915.4 | 7251.3 | 6644.8 | 6223.2 | 6035.5 | 5943.1 | 5905.5 | 5917.1 |
| 22.5° | 9151.4 | 9105.2 | 8475.7 | 7638.2 | 6792.1 | 6177.0 | 5894.0 | 5810.2 | 5764.0 | 5758.3 | 5764.0 |
| 25° | 9434.4 | 9304.5 | 8380.4 | 7262.8 | 6312.7 | 5772.7 | 5608.1 | 5622.5 | 5631.2 | 5631.2 | 5651.4 |
| 27.5° | 9781.0 | 9521.1 | 8221.6 | 6789.2 | 5752.5 | 5397.3 | 5351.1 | 5452.2 | 5498.4 | 5507.0 | 5521.5 |
| 30° | 10237.2 | 9757.9 | 7958.8 | 6197.2 | 5276.0 | 5059.4 | 5140.3 | 5276.0 | 5328.0 | 5359.7 | 5354.0 |
| 32.5° | 10780.1 | 10017.8 | 7603.6 | 5605.2 | 4891.9 | 4822.6 | 4920.8 | 5059.4 | 5117.2 | 5134.5 | 5111.4 |
| 35° | 11418.3 | 10312.3 | 7135.7 | 5050.8 | 4556.9 | 4597.4 | 4712.9 | 4756.2 | 4808.2 | 4808.2 | 4819.7 |
| 37.5° | 12105.6 | 10549.1 | 6564.0 | 4542.5 | 4297.0 | 4444.3 | 4528.1 | 4487.6 | 4464.5 | 4435.7 | 4450.1 |
| 40° | 12804.5 | 10725.3 | 5821.8 | 4040.0 | 4037.1 | 4285.5 | 4308.6 | 4193.1 | 4100.7 | 4071.8 | 4057.4 |
| 42.5° | 13413.8 | 10835.0 | 5151.8 | 3650.2 | 3791.7 | 4129.5 | 4146.9 | 3962.1 | 3814.8 | 3728.1 | 3699.3 |
| 45° | 14132.9 | 10962.1 | 4496.3 | 3326.7 | 3563.5 | 4005.4 | 4048.7 | 3800.3 | 3583.8 | 3401.8 | 3355.6 |
| 47.5° | 15117.6 | 11250.8 | 3979.4 | 3075.5 | 3398.9 | 3927.4 | 3988.0 | 3667.5 | 3381.6 | 3144.8 | 3107.3 |
| 50° | 16229.4 | 11646.5 | 3578.0 | 2905.1 | 3271.9 | 3858.1 | 3933.2 | 3531.8 | 3193.9 | 2931.1 | 2902.2 |
| 52.5° | 17248.8 | 11860.2 | 3231.4 | 2752.1 | 3147.7 | 3731.0 | 3861.0 | 3433.6 | 3009.1 | 2717.4 | 2691.4 |
| 55° | 17806.1 | 11513.6 | 2890.7 | 2601.9 | 2977.3 | 3566.4 | 3759.9 | 3297.9 | 2830.0 | 2604.8 | 2567.2 |
| 57.5° | 17881.2 | 10797.5 | 2581.7 | 2440.2 | 2798.3 | 3364.3 | 3572.2 | 3133.3 | 2714.5 | 2526.8 | 2495.1 |
| 60° | 17300.8 | 9729.0 | 2342.0 | 2307.3 | 2616.3 | 3136.1 | 3361.4 | 2988.9 | 2596.1 | 2440.2 | 2408.4 |
| 62.5° | 15856.9 | 8568.1 | 2174.5 | 2186.1 | 2431.5 | 2896.5 | 3205.5 | 2850.3 | 2483.5 | 2344.9 | 2316.0 |
| 65° | 13373.4 | 7072.2 | 2012.8 | 2061.9 | 2266.9 | 2708.8 | 3064.0 | 2734.7 | 2370.9 | 2272.7 | 2246.7 |
| 67.5° | 9290.0 | 5105.6 | 1880.0 | 1931.9 | 2111.0 | 2518.2 | 2899.3 | 2610.6 | 2243.8 | 2191.8 | 2151.4 |
| 70° | 5143.2 | 3141.9 | 1724.0 | 1784.7 | 1949.3 | 2304.5 | 2714.5 | 2422.9 | 2059.0 | 2035.9 | 1978.1 |
| 72.5° | 2703.0 | 2001.2 | 1547.9 | 1614.3 | 1729.8 | 2030.1 | 2431.5 | 2217.8 | 1877.1 | 1778.9 | 1703.8 |
| 74° | 2111.0 | 1640.3 | 1429.5 | 1498.8 | 1576.7 | 1868.4 | 2264.0 | 2070.5 | 1747.1 | 1631.6 | 1573.8 |
| 75° | 1839.5 | 1461.2 | 1328.4 | 1417.9 | 1487.2 | 1758.7 | 2134.1 | 1966.6 | 1674.9 | 1565.2 | 1513.2 |
| 77.5° | 1299.5 | 1094.5 | 1085.8 | 1192.7 | 1230.2 | 1542.1 | 1923.3 | 1790.4 | 1493.0 | 1377.5 | 1328.4 |
| 80° | 912.5 | 820.1 | 860.6 | 927.0 | 979.0 | 1363.0 | 1784.7 | 1547.9 | 1224.4 | 1088.7 | 1071.4 |
| 82.5° | 594.9 | 537.1 | 615.1 | 675.7 | 693.1 | 1005.0 | 1441.0 | 1175.3 | 892.3 | 724.8 | 672.9 |
| 85° | 274.3 | 268.6 | 352.3 | 343.6 | 340.8 | 490.9 | 854.8 | 687.3 | 514.0 | 384.1 | 361.0 |
| 87.5° | 69.3 | 66.4 | 86.6 | 72.2 | 86.6 | 75.1 | 78.0 | 20.2 | 2.9 | 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)