

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: P533080

Luminaire Tested: **GLAN-SA8C-727-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8C-727-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40479 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

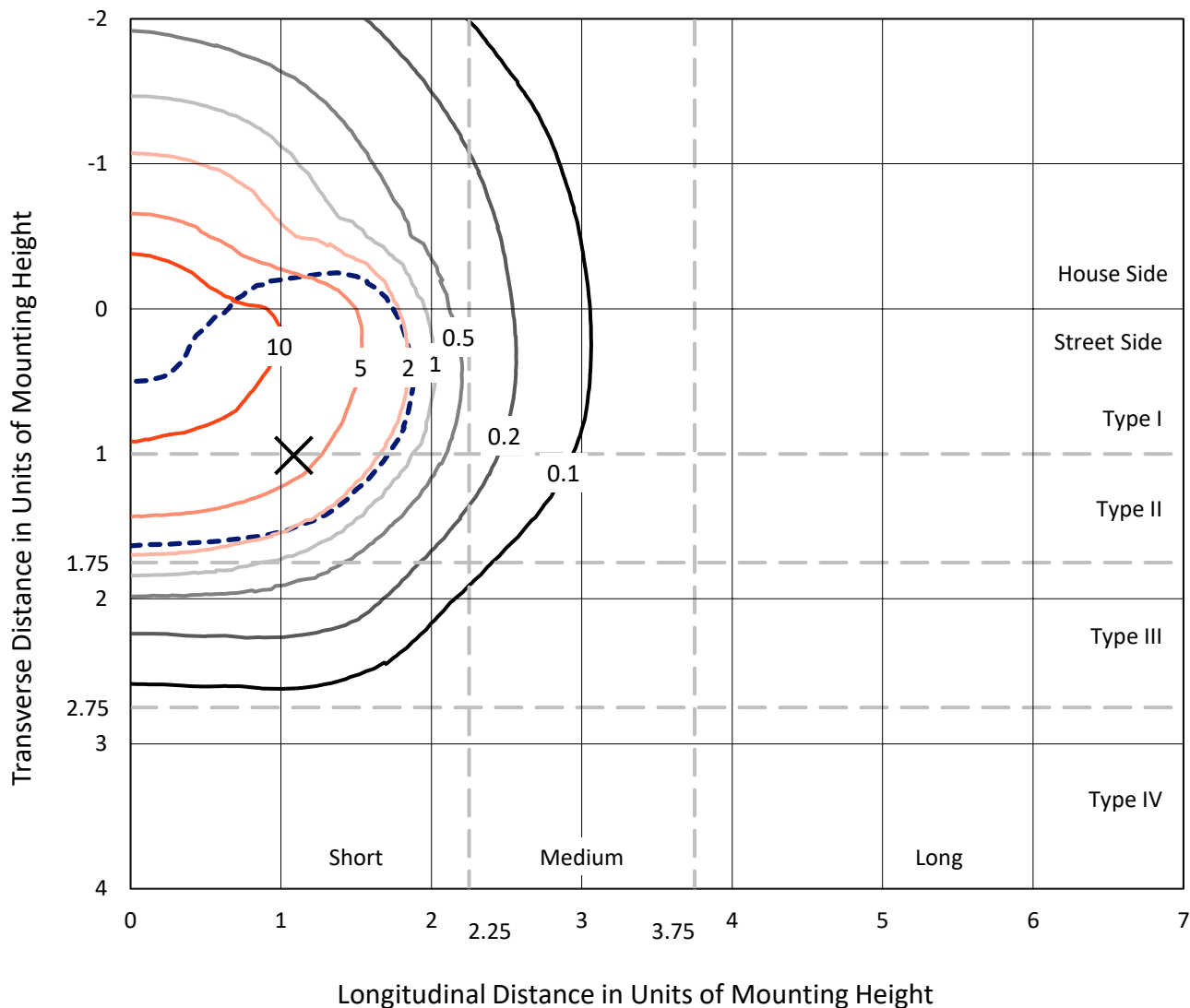
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

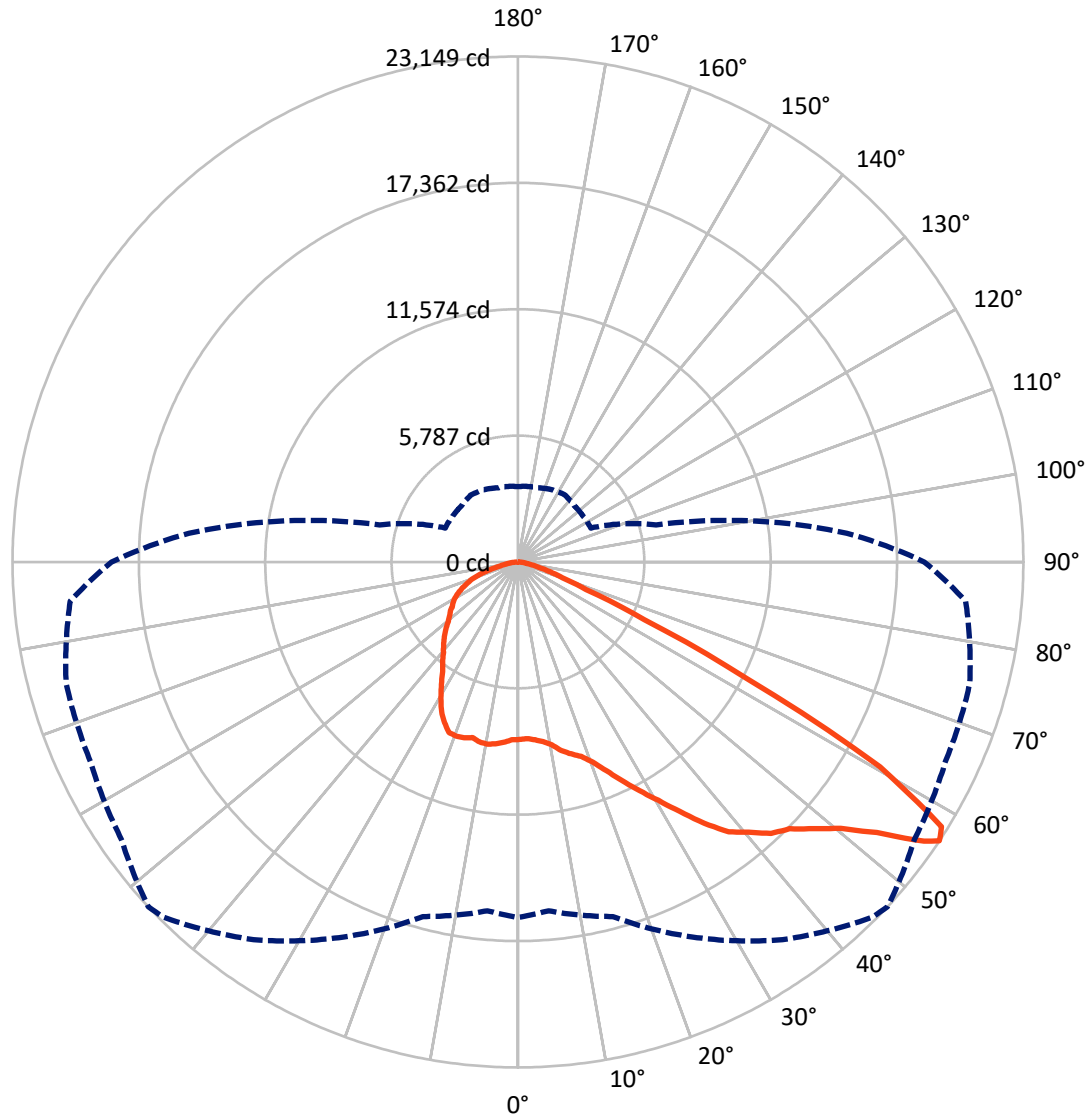
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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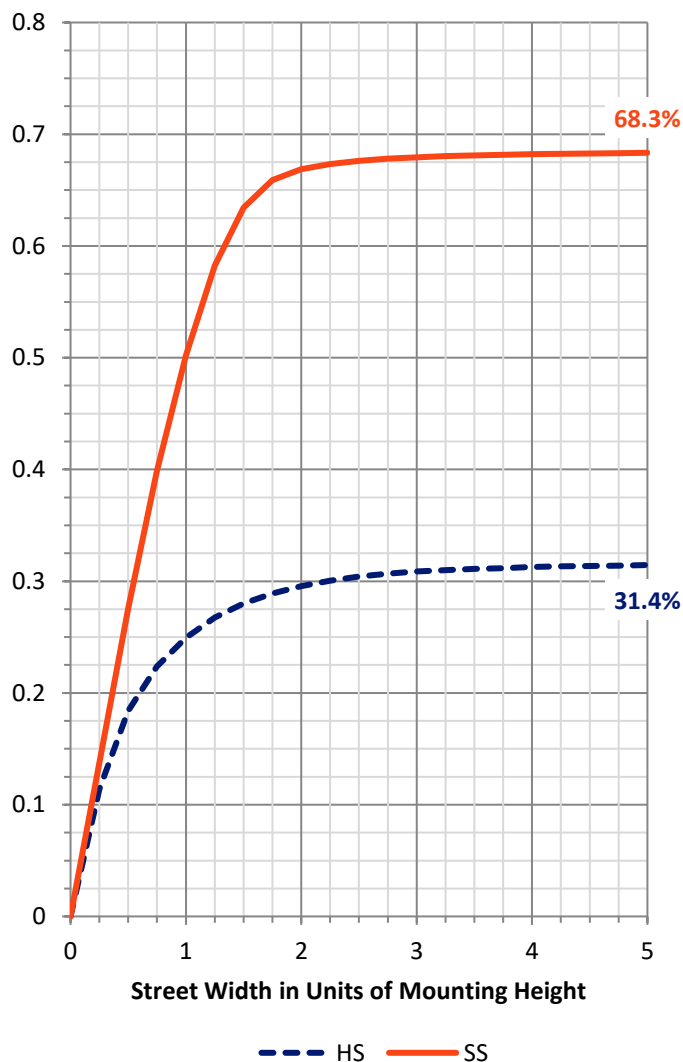
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12827.3 | 0.0 | 12827.3 |
| | % Fixture | 31.7 | 0.0 | 31.7 |
| Street Side | Lumens | 27651.7 | 0.0 | 27651.7 |
| | % Fixture | 68.3 | 0.0 | 68.3 |
| Total | Lumens | 40479.0 | 0.0 | 40479.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 792.3 | 2.0 |
| 10°-20° | 2499.2 | 6.2 |
| 20°-30° | 4417.9 | 10.9 |
| 30°-40° | 6635.6 | 16.4 |
| 40°-50° | 9106.7 | 22.5 |
| 50°-60° | 10849.4 | 26.8 |
| 60°-70° | 4642.9 | 11.5 |
| 70°-80° | 1313.9 | 3.2 |
| 80°-90° | 221.1 | 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° | 40479.0 | 100.0 |
| 0°-180° | 40479.0 | 100.0 |



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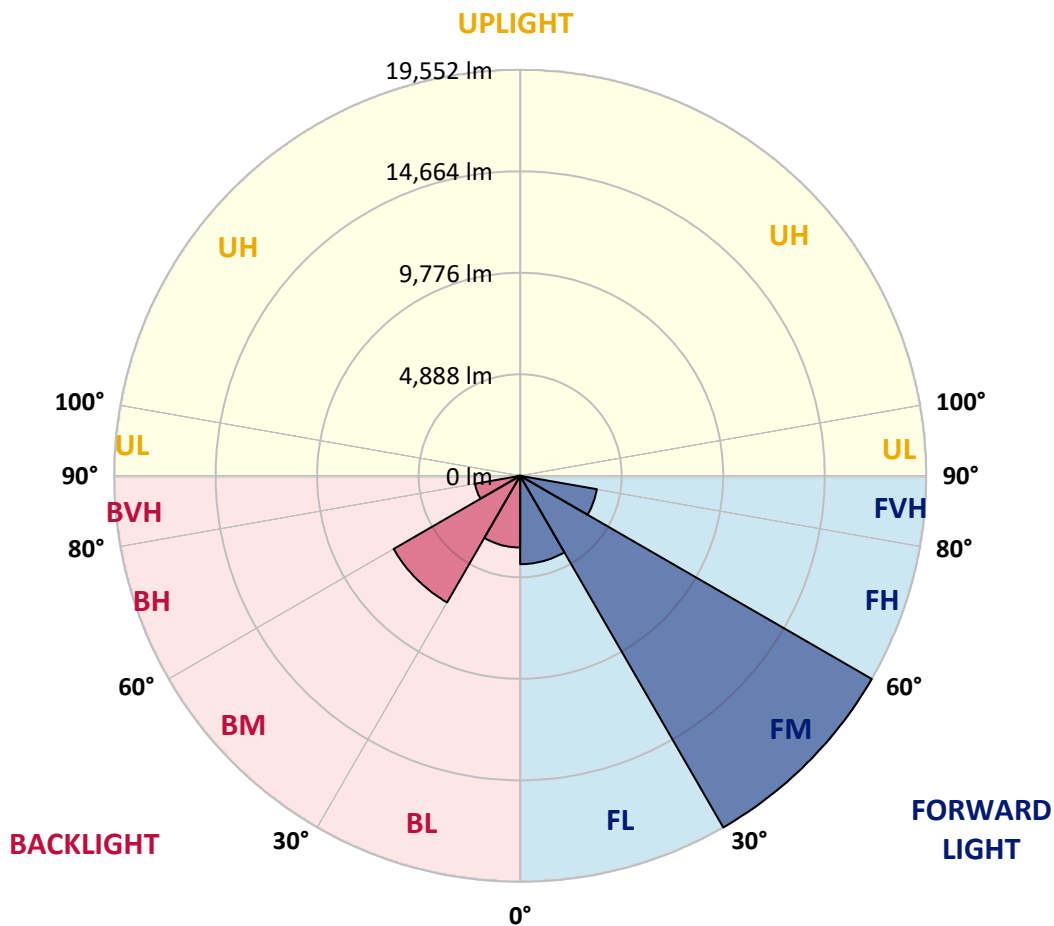
CATALOG NUMBER: GLAN-SA8C-727-U-T3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4255.7 | 10.5 | | | |
| FM (30°-60°) | 19552.3 | 48.3 | | | |
| FH (60°-80°) | 3749.8 | 9.3 | | | G2/5000 |
| FVH (80°-90°) | 93.9 | 0.2 | | | G1/100 |
| BL (0°-30°) | 3453.6 | 8.5 | B4/5000 | | |
| BM (30°-60°) | 7039.4 | 17.4 | B4/8500 | | |
| BH (60°-80°) | 2207.0 | 5.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 127.3 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8131.0 | 8131.0 | 8131.0 | 8131.0 | 8131.0 | 8131.0 | 8131.0 | 8131.0 | 8131.0 | 8131.0 | 8131.0 |
| 2.5° | 8100.0 | 8084.5 | 8074.2 | 8156.8 | 8125.8 | 8131.0 | 8100.0 | 8131.0 | 8151.7 | 8105.2 | 8172.3 |
| 5° | 8084.5 | 8131.0 | 8089.7 | 8115.5 | 8182.6 | 8162.0 | 8182.6 | 8244.6 | 8229.1 | 8213.6 | 8193.0 |
| 7.5° | 8229.1 | 8234.3 | 8265.2 | 8275.6 | 8296.2 | 8275.6 | 8306.5 | 8363.3 | 8347.8 | 8260.1 | 8270.4 |
| 10° | 8435.6 | 8445.9 | 8451.1 | 8507.9 | 8544.0 | 8549.2 | 8513.0 | 8461.4 | 8456.2 | 8575.0 | 8492.4 |
| 12.5° | 8673.1 | 8647.3 | 8709.2 | 8729.9 | 8771.2 | 8817.6 | 8864.1 | 8755.7 | 8822.8 | 8827.9 | 8729.9 |
| 15° | 9019.0 | 9044.8 | 8972.5 | 8972.5 | 8988.0 | 8993.1 | 9122.2 | 9070.6 | 9060.3 | 9003.5 | 9044.8 |
| 17.5° | 9535.2 | 9359.7 | 9354.5 | 9282.2 | 9271.9 | 9313.2 | 9359.7 | 9401.0 | 9540.4 | 9426.8 | 9204.8 |
| 20° | 9912.1 | 9953.4 | 9803.7 | 9715.9 | 9731.4 | 9824.3 | 9777.9 | 9963.7 | 10061.8 | 9875.9 | 9659.1 |
| 22.5° | 10578.0 | 10438.7 | 10474.8 | 10278.6 | 10294.1 | 10392.2 | 10387.0 | 10578.0 | 10634.8 | 10340.6 | 10025.7 |
| 25° | 11027.2 | 10991.0 | 11022.0 | 10867.1 | 10887.8 | 10965.2 | 11089.1 | 11404.1 | 11311.1 | 10985.9 | 10258.0 |
| 27.5° | 11682.8 | 11610.6 | 11584.7 | 11528.0 | 11507.3 | 11713.8 | 11858.4 | 12193.9 | 12126.8 | 11651.9 | 10671.0 |
| 30° | 12354.0 | 12307.5 | 12333.3 | 12101.0 | 12183.6 | 12622.4 | 12663.7 | 13123.2 | 13092.2 | 12255.9 | 11130.4 |
| 32.5° | 12818.6 | 12844.4 | 12890.9 | 12761.8 | 13128.3 | 13479.4 | 13618.8 | 14140.2 | 14166.0 | 13293.5 | 12018.4 |
| 35° | 13567.2 | 13479.4 | 13505.2 | 13654.9 | 13825.3 | 14465.4 | 14692.6 | 15038.5 | 15255.3 | 14382.8 | 12870.2 |
| 37.5° | 14036.9 | 14129.9 | 14021.5 | 14258.9 | 14702.9 | 15472.1 | 15678.6 | 16034.9 | 16262.0 | 15456.6 | 14031.8 |
| 40° | 14770.0 | 14620.3 | 14697.8 | 14868.1 | 15322.4 | 16324.0 | 16267.2 | 16633.7 | 16706.0 | 16370.4 | 15115.9 |
| 42.5° | 15559.9 | 15487.6 | 15379.2 | 15766.4 | 16148.4 | 16876.3 | 16989.9 | 16819.6 | 17186.1 | 17263.5 | 16664.7 |
| 45° | 16504.6 | 16592.4 | 16607.9 | 16618.2 | 16953.8 | 17588.8 | 17433.9 | 17284.2 | 17707.5 | 18270.2 | 17624.9 |
| 47.5° | 17382.3 | 17103.5 | 17304.8 | 17583.6 | 18058.6 | 18063.7 | 18244.4 | 17888.2 | 18337.3 | 18838.1 | 18492.2 |
| 50° | 17676.5 | 17542.3 | 17810.8 | 18337.3 | 19070.4 | 19147.9 | 19168.5 | 18662.6 | 18894.9 | 19292.4 | 18791.6 |
| 52.5° | 17563.0 | 17516.5 | 18203.1 | 19018.8 | 20092.6 | 20485.0 | 20588.2 | 19963.5 | 20092.6 | 19911.9 | 19452.5 |
| 55° | 17020.9 | 17160.3 | 17852.1 | 19514.4 | 21161.3 | 22374.5 | 22570.6 | 21780.8 | 20959.9 | 21099.3 | 20593.4 |
| 56° | 16277.5 | 16034.9 | 16809.2 | 18951.7 | 21114.8 | 22988.8 | 23148.8 | 22162.8 | 21605.2 | 21424.5 | 20583.0 |
| 57.5° | 13809.8 | 13494.9 | 14511.9 | 17051.9 | 19942.9 | 22756.5 | 22875.2 | 22322.8 | 21496.8 | 21130.3 | 19080.7 |
| 60° | 8084.5 | 8239.4 | 9530.0 | 11760.3 | 15384.4 | 18657.4 | 19054.9 | 19457.6 | 18905.2 | 17263.5 | 14202.1 |
| 62.5° | 3902.9 | 3804.8 | 4728.9 | 6742.3 | 9375.2 | 11910.0 | 11791.2 | 12921.8 | 13541.3 | 12266.2 | 8967.3 |
| 65° | 2044.4 | 2034.0 | 2581.3 | 3680.9 | 5152.2 | 6257.0 | 6365.4 | 6974.6 | 7826.4 | 6318.9 | 4553.4 |
| 67.5° | 1502.3 | 1543.6 | 1817.2 | 2586.4 | 3314.4 | 3381.5 | 3366.0 | 3670.6 | 3753.2 | 3175.0 | 2798.1 |
| 70° | 1177.1 | 1197.7 | 1399.0 | 1966.9 | 2467.7 | 2209.6 | 2163.1 | 2199.2 | 2441.9 | 2545.1 | 2421.2 |
| 72.5° | 851.8 | 872.5 | 1042.8 | 1326.8 | 1543.6 | 1507.5 | 1538.4 | 1739.8 | 2039.2 | 2147.6 | 2018.6 |
| 75° | 567.9 | 583.4 | 676.3 | 810.5 | 913.8 | 986.0 | 1042.8 | 1275.1 | 1553.9 | 1615.9 | 1553.9 |
| 77.5° | 392.4 | 407.8 | 469.8 | 573.0 | 583.4 | 629.8 | 650.5 | 758.9 | 929.3 | 1006.7 | 965.4 |
| 80° | 222.0 | 222.0 | 253.0 | 294.3 | 361.4 | 423.3 | 433.7 | 521.4 | 598.9 | 650.5 | 660.8 |
| 82.5° | 103.3 | 108.4 | 134.2 | 180.7 | 237.5 | 294.3 | 304.6 | 361.4 | 418.2 | 469.8 | 485.3 |
| 85° | 51.6 | 56.8 | 77.4 | 108.4 | 144.6 | 175.5 | 170.4 | 175.5 | 185.9 | 175.5 | 180.7 |
| 87.5° | 15.5 | 15.5 | 20.7 | 25.8 | 20.7 | 25.8 | 25.8 | 31.0 | 36.1 | 41.3 | 46.5 |
| 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-SA8C-727-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8131.0 | 8131.0 | 8131.0 | 8131.0 | 8131.0 | 8131.0 | 8131.0 | 8131.0 | 8131.0 | 8131.0 | 8131.0 |
| 2.5° | 8177.5 | 8193.0 | 8089.7 | 8187.8 | 8151.7 | 8146.5 | 8218.8 | 8208.4 | 8234.3 | 8223.9 | 8162.0 |
| 5° | 8182.6 | 8146.5 | 8254.9 | 8156.8 | 8203.3 | 8301.4 | 8234.3 | 8389.1 | 8311.7 | 8363.3 | 8249.7 |
| 7.5° | 8342.7 | 8353.0 | 8332.3 | 8373.6 | 8353.0 | 8399.5 | 8363.3 | 8399.5 | 8337.5 | 8342.7 | 8445.9 |
| 10° | 8482.1 | 8451.1 | 8487.2 | 8435.6 | 8471.7 | 8456.2 | 8373.6 | 8347.8 | 8368.5 | 8342.7 | 8409.8 |
| 12.5° | 8740.2 | 8683.4 | 8657.6 | 8595.6 | 8554.3 | 8399.5 | 8270.4 | 8198.1 | 8296.2 | 8311.7 | 8280.7 |
| 15° | 9003.5 | 9008.6 | 8889.9 | 8750.5 | 8492.4 | 8260.1 | 8291.0 | 8316.9 | 8316.9 | 8358.2 | 8280.7 |
| 17.5° | 9168.7 | 9168.7 | 9060.3 | 8781.5 | 8518.2 | 8384.0 | 8353.0 | 8270.4 | 8198.1 | 8187.8 | 8182.6 |
| 20° | 9457.8 | 9370.0 | 9122.2 | 8776.3 | 8507.9 | 8445.9 | 8213.6 | 8017.4 | 7867.7 | 7816.1 | 7810.9 |
| 22.5° | 9788.2 | 9566.2 | 9220.3 | 8786.6 | 8492.4 | 8404.6 | 7971.0 | 7676.7 | 7408.2 | 7294.7 | 7310.2 |
| 25° | 10092.8 | 9736.6 | 9277.1 | 8740.2 | 8435.6 | 8012.3 | 7527.0 | 7119.1 | 6840.4 | 6747.4 | 6701.0 |
| 27.5° | 10304.4 | 9917.2 | 9277.1 | 8781.5 | 8223.9 | 7573.4 | 7077.8 | 6556.4 | 6313.8 | 6251.8 | 6262.2 |
| 30° | 10588.4 | 10144.4 | 9437.1 | 8693.7 | 7800.6 | 7005.6 | 6411.9 | 6071.1 | 5926.6 | 5875.0 | 5911.1 |
| 32.5° | 11254.3 | 10738.1 | 9659.1 | 8482.1 | 7299.8 | 6437.7 | 5957.6 | 5766.6 | 5554.9 | 5451.6 | 5415.5 |
| 35° | 11977.1 | 11300.8 | 9875.9 | 8125.8 | 6737.1 | 5921.4 | 5622.0 | 5446.5 | 5193.5 | 5079.9 | 5100.6 |
| 37.5° | 12999.3 | 12023.6 | 9891.4 | 7537.3 | 6127.9 | 5632.3 | 5358.7 | 5085.1 | 4878.6 | 4703.1 | 4651.4 |
| 40° | 14377.7 | 13009.6 | 9855.3 | 6917.8 | 5637.5 | 5291.6 | 5090.3 | 4749.5 | 4517.2 | 4393.3 | 4419.1 |
| 42.5° | 15590.9 | 14166.0 | 9705.6 | 6215.7 | 5193.5 | 5059.3 | 4832.1 | 4496.6 | 4269.4 | 4140.4 | 4130.0 |
| 45° | 16613.1 | 15017.8 | 9421.6 | 5616.8 | 4821.8 | 4801.2 | 4537.9 | 4279.7 | 4099.1 | 3980.3 | 4031.9 |
| 47.5° | 17557.8 | 15704.4 | 8993.1 | 5018.0 | 4481.1 | 4522.4 | 4269.4 | 4109.4 | 3995.8 | 3887.4 | 3882.2 |
| 50° | 17898.5 | 15694.1 | 8616.3 | 4522.4 | 4207.5 | 4186.8 | 4176.5 | 4006.1 | 3887.4 | 3794.5 | 3835.8 |
| 52.5° | 18466.4 | 15869.6 | 8208.4 | 4181.7 | 3959.7 | 3964.8 | 4001.0 | 3877.1 | 3742.8 | 3686.1 | 3737.7 |
| 55° | 19282.1 | 15895.5 | 7310.2 | 3784.1 | 3753.2 | 3789.3 | 3789.3 | 3706.7 | 3593.1 | 3546.7 | 3520.9 |
| 56° | 18616.1 | 15126.2 | 6556.4 | 3680.9 | 3649.9 | 3649.9 | 3748.0 | 3655.1 | 3515.7 | 3479.6 | 3448.6 |
| 57.5° | 17170.6 | 13252.2 | 5487.8 | 3557.0 | 3510.5 | 3582.8 | 3634.4 | 3536.3 | 3407.3 | 3355.7 | 3386.6 |
| 60° | 11842.9 | 8967.3 | 4124.9 | 3288.5 | 3288.5 | 3407.3 | 3448.6 | 3304.0 | 3247.2 | 3242.1 | 3200.8 |
| 62.5° | 6912.6 | 5224.5 | 3226.6 | 3045.9 | 3056.2 | 3154.3 | 3185.3 | 3102.7 | 3030.4 | 3118.2 | 3159.5 |
| 65° | 3665.4 | 3118.2 | 2767.1 | 2787.8 | 2792.9 | 2870.4 | 3004.6 | 2999.4 | 2994.3 | 3020.1 | 3025.2 |
| 67.5° | 2653.5 | 2591.6 | 2514.2 | 2493.5 | 2503.8 | 2560.6 | 2694.8 | 2798.1 | 2792.9 | 2731.0 | 2684.5 |
| 70° | 2364.4 | 2276.7 | 2230.2 | 2235.4 | 2194.1 | 2261.2 | 2369.6 | 2436.7 | 2318.0 | 2245.7 | 2214.7 |
| 72.5° | 1966.9 | 1941.1 | 1910.1 | 1915.3 | 1832.7 | 1817.2 | 1693.3 | 1693.3 | 1662.3 | 1641.7 | 1677.8 |
| 75° | 1502.3 | 1492.0 | 1507.5 | 1481.6 | 1393.9 | 1301.0 | 1228.7 | 1161.6 | 1058.3 | 1017.0 | 996.4 |
| 77.5° | 949.9 | 980.9 | 1017.0 | 960.2 | 924.1 | 857.0 | 784.7 | 717.6 | 635.0 | 588.5 | 588.5 |
| 80° | 645.3 | 671.1 | 696.9 | 686.6 | 645.3 | 583.4 | 526.6 | 454.3 | 397.5 | 361.4 | 356.2 |
| 82.5° | 490.4 | 511.1 | 547.2 | 505.9 | 464.6 | 413.0 | 366.5 | 314.9 | 263.3 | 222.0 | 222.0 |
| 85° | 175.5 | 201.3 | 222.0 | 242.6 | 258.1 | 263.3 | 227.2 | 185.9 | 149.7 | 118.7 | 113.6 |
| 87.5° | 46.5 | 51.6 | 56.8 | 51.6 | 51.6 | 51.6 | 56.8 | 51.6 | 46.5 | 36.1 | 36.1 |
| 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)