

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: P522932

Luminaire Tested: **GLAN-SA9D-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9D-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70182 lumens
Efficiency: N/A
Efficacy: 127.1 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

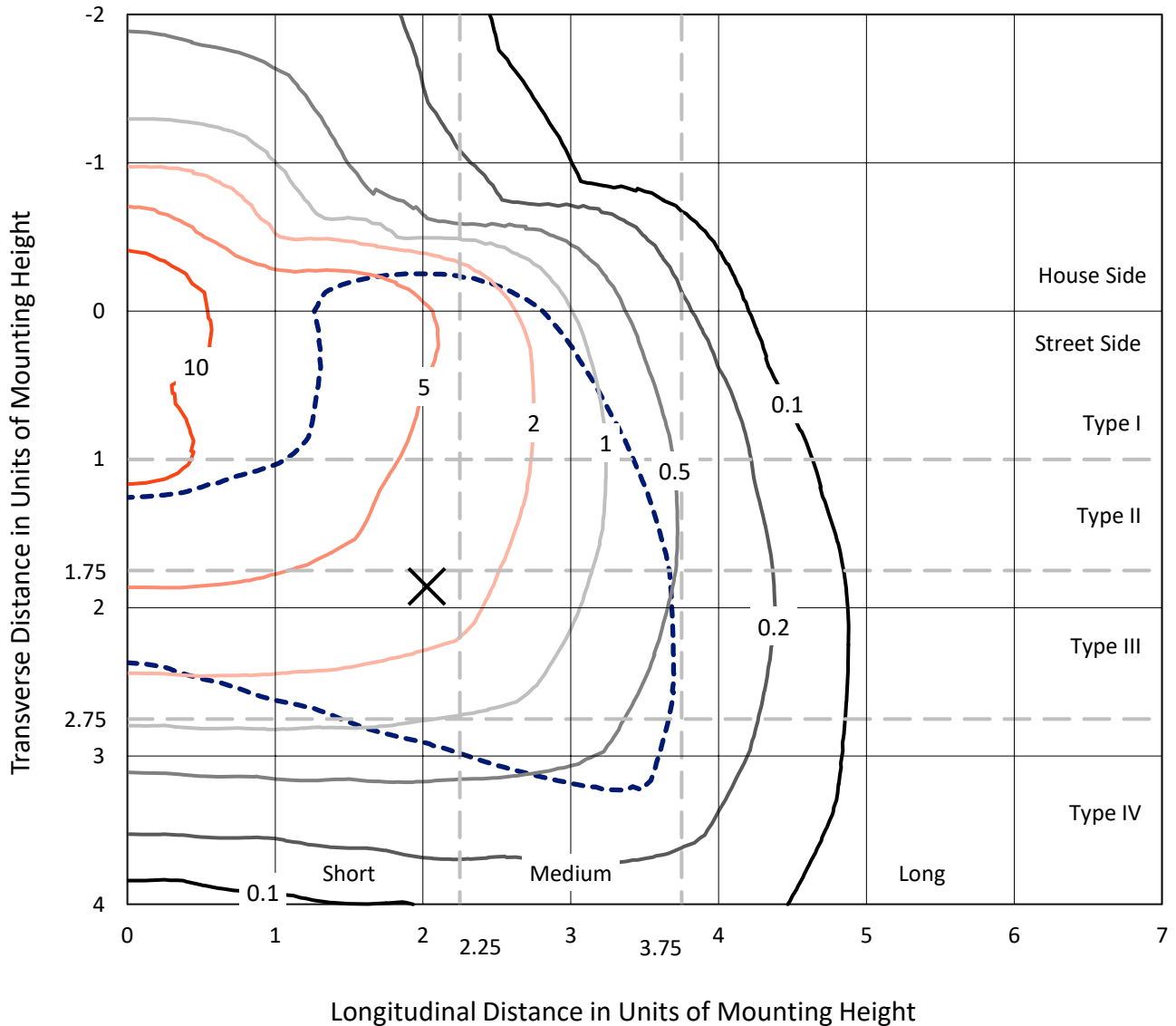
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

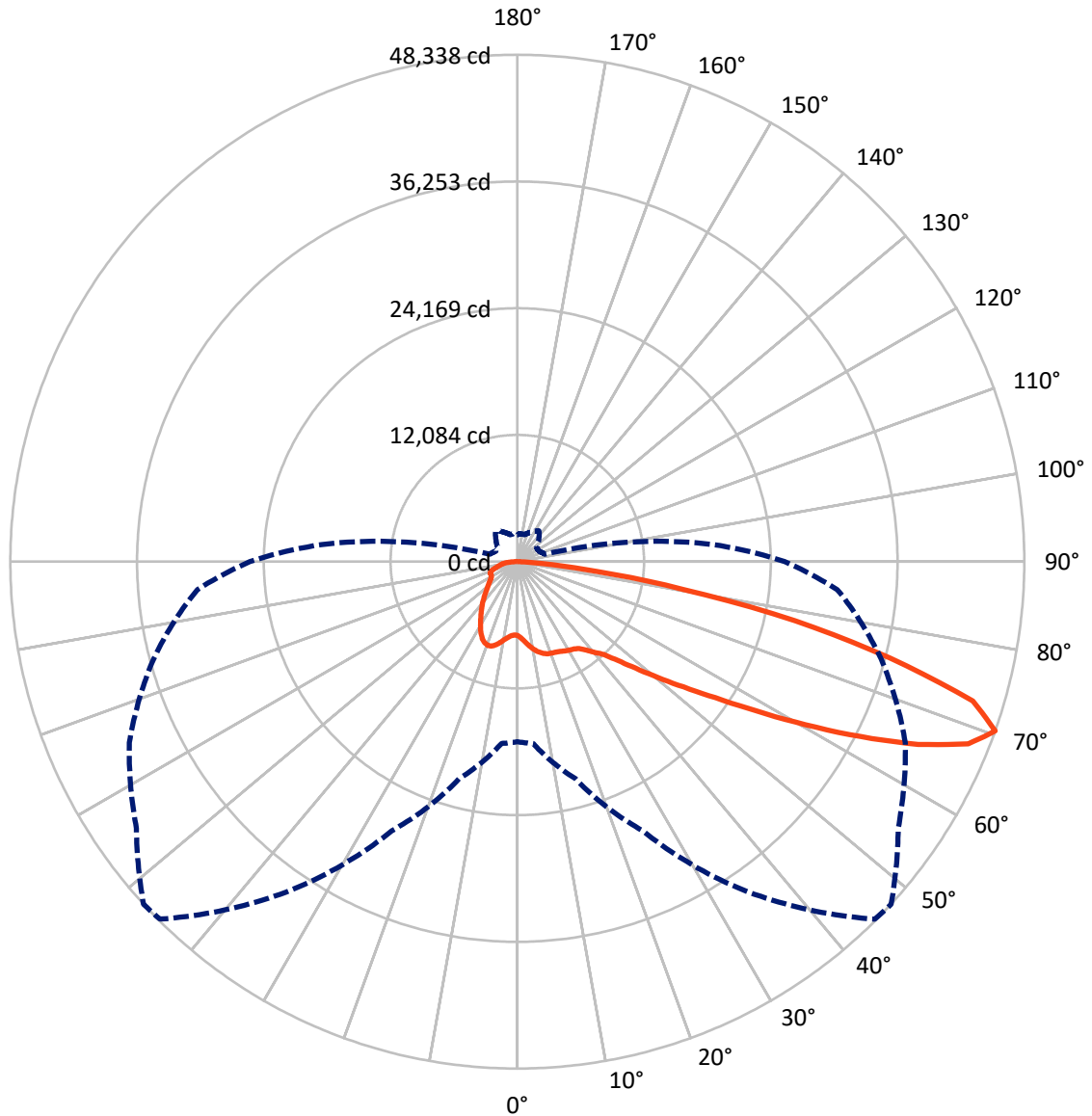
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 15890.6 | 0.0 | 15890.6 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 54291.4 | 0.0 | 54291.4 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 70182.0 | 0.0 | 70182.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 726.2 | 1.0 |
| 10°-20° | 2427.9 | 3.5 |
| 20°-30° | 4037.5 | 5.8 |
| 30°-40° | 5722.6 | 8.2 |
| 40°-50° | 8447.7 | 12.0 |
| 50°-60° | 14631.8 | 20.8 |
| 60°-70° | 20667.9 | 29.4 |
| 70°-80° | 11881.0 | 16.9 |
| 80°-90° | 1639.3 | 2.3 |
| 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° | 70182.0 | 100.0 |
| 0°-180° | 70182.0 | 100.0 |

Coefficient of Utilization



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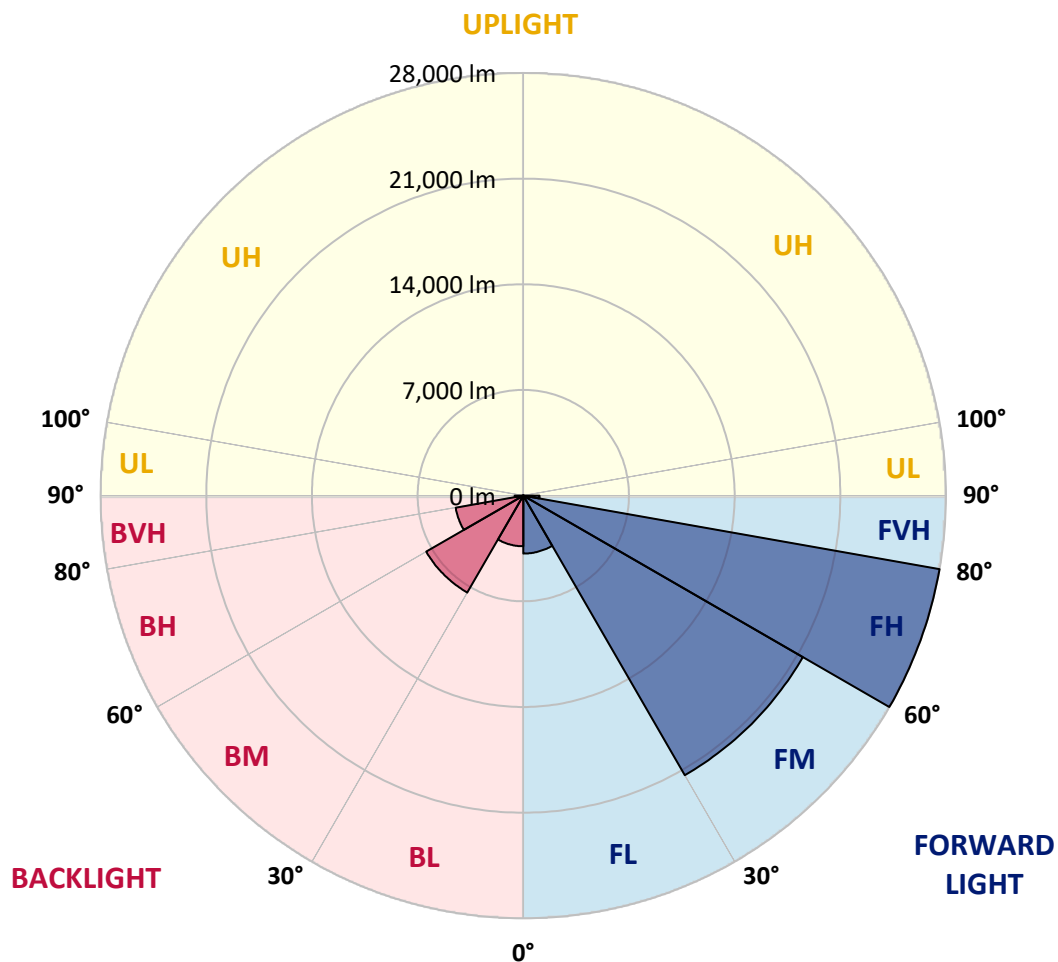
CATALOG NUMBER: GLAN-SA9D-740-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3837.8 | 5.5 | | | |
| FM | (30°-60°) | 21383.1 | 30.5 | | | |
| FH | (60°-80°) | 27999.7 | 39.9 | | | G5 |
| FVH | (80°-90°) | 1070.8 | 1.5 | | | G5 |
| BL | (0°-30°) | 3353.8 | 4.8 | B4/5000 | | |
| BM | (30°-60°) | 7419.0 | 10.6 | B4/8500 | | |
| BH | (60°-80°) | 4549.3 | 6.5 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 568.5 | 0.8 | | | G4/750 |
| 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° | 35° | 45° | 47.5° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7045.4 | 7045.4 | 7045.4 | 7045.4 | 7045.4 | 7045.4 | 7045.4 | 7045.4 | 7045.4 | 7045.4 | 7045.4 |
| 2.5° | 7499.9 | 7473.6 | 7469.8 | 7413.5 | 7383.4 | 7327.1 | 7304.6 | 7252.0 | 7188.1 | 7124.3 | 7064.2 |
| 5° | 8089.5 | 8089.5 | 8063.2 | 7984.3 | 7860.4 | 7732.7 | 7676.4 | 7575.0 | 7394.7 | 7248.2 | 7124.3 |
| 7.5° | 8694.1 | 8701.6 | 8649.1 | 8532.6 | 8356.1 | 8149.6 | 8097.0 | 7946.8 | 7691.4 | 7477.3 | 7293.3 |
| 10° | 9216.1 | 9216.1 | 9144.8 | 8987.1 | 8765.5 | 8540.1 | 8487.6 | 8318.6 | 8033.1 | 7766.5 | 7526.1 |
| 12.5° | 9614.2 | 9614.2 | 9520.3 | 9313.8 | 9073.4 | 8870.6 | 8810.5 | 8649.1 | 8382.4 | 8085.7 | 7781.5 |
| 15° | 9873.4 | 9854.6 | 9749.4 | 9516.6 | 9283.7 | 9107.2 | 9065.9 | 8930.7 | 8686.6 | 8386.2 | 8044.4 |
| 17.5° | 9884.6 | 9877.1 | 9775.7 | 9580.4 | 9377.6 | 9257.5 | 9231.2 | 9141.0 | 8949.5 | 8664.1 | 8303.5 |
| 20° | 9666.8 | 9681.8 | 9614.2 | 9475.3 | 9377.6 | 9325.1 | 9313.8 | 9283.7 | 9148.5 | 8881.9 | 8521.4 |
| 22.5° | 9434.0 | 9460.3 | 9396.4 | 9321.3 | 9313.8 | 9366.4 | 9373.9 | 9381.4 | 9295.0 | 9035.9 | 8705.4 |
| 25° | 9377.6 | 9396.4 | 9332.6 | 9265.0 | 9306.3 | 9445.2 | 9475.3 | 9505.3 | 9437.7 | 9219.9 | 8923.2 |
| 27.5° | 9663.1 | 9648.0 | 9524.1 | 9377.6 | 9403.9 | 9591.7 | 9633.0 | 9666.8 | 9633.0 | 9445.2 | 9193.6 |
| 30° | 10470.5 | 10421.7 | 10173.8 | 9745.7 | 9610.5 | 9741.9 | 9783.2 | 9877.1 | 9877.1 | 9738.2 | 9486.5 |
| 32.5° | 11822.5 | 11728.6 | 11274.2 | 10432.9 | 9963.5 | 9884.6 | 9925.9 | 10079.9 | 10158.8 | 10049.9 | 9775.7 |
| 35° | 13463.7 | 13366.0 | 12716.3 | 11585.9 | 10609.5 | 10170.1 | 10158.8 | 10331.5 | 10541.9 | 10297.7 | 9941.0 |
| 37.5° | 15112.4 | 15011.0 | 14229.8 | 12960.4 | 11552.1 | 10770.9 | 10703.3 | 10763.4 | 10853.6 | 10406.7 | 10170.1 |
| 40° | 16761.1 | 16640.9 | 15957.4 | 14496.5 | 12705.1 | 11567.1 | 11390.6 | 11120.2 | 11082.7 | 10763.4 | 10613.2 |
| 42.5° | 18394.7 | 18285.8 | 17940.3 | 16220.3 | 14087.1 | 12344.5 | 12074.1 | 11608.4 | 11751.1 | 11559.6 | 11428.2 |
| 45° | 20043.4 | 20050.9 | 19682.9 | 18154.4 | 15754.6 | 13779.1 | 13414.9 | 12686.3 | 13024.3 | 12952.9 | 13028.0 |
| 47.5° | 21504.3 | 21485.6 | 21354.1 | 20032.2 | 17823.9 | 15626.9 | 15157.4 | 14312.4 | 14890.8 | 15153.7 | 15728.3 |
| 50° | 22920.2 | 22908.9 | 22916.4 | 22161.6 | 20227.4 | 17823.9 | 17305.6 | 16419.3 | 17722.5 | 18635.1 | 19664.1 |
| 52.5° | 24948.2 | 25012.0 | 24557.6 | 24358.6 | 23149.3 | 20419.0 | 19848.1 | 18931.8 | 21068.7 | 22507.1 | 24516.3 |
| 55° | 26983.7 | 26931.1 | 26574.3 | 26780.9 | 26206.3 | 23491.0 | 22893.9 | 22165.3 | 24794.2 | 26367.8 | 29387.2 |
| 57.5° | 28181.7 | 28200.5 | 28564.8 | 29575.0 | 29980.6 | 27321.7 | 26780.9 | 26217.6 | 28981.6 | 30097.0 | 33721.2 |
| 60° | 29259.6 | 29345.9 | 30393.7 | 32301.6 | 33401.9 | 32027.4 | 31546.7 | 30998.4 | 32823.6 | 33266.7 | 37484.2 |
| 62.5° | 29597.6 | 29864.2 | 31693.2 | 34547.4 | 36736.9 | 37337.8 | 36740.6 | 35531.3 | 36481.5 | 36308.7 | 40034.3 |
| 65° | 27911.3 | 28275.6 | 31554.2 | 35388.6 | 39715.0 | 42377.7 | 41998.4 | 39752.6 | 39598.6 | 38558.3 | 40451.1 |
| 67.5° | 23472.2 | 23836.5 | 28046.5 | 33623.5 | 40946.9 | 46741.7 | 46362.4 | 42832.1 | 41491.4 | 38768.6 | 37296.5 |
| 70° | 17174.2 | 17403.3 | 21429.2 | 28309.4 | 38471.9 | 48206.4 | 48337.8 | 44334.4 | 40815.4 | 35910.7 | 30622.8 |
| 72.5° | 9895.9 | 10402.9 | 13223.3 | 19915.7 | 31430.3 | 44503.4 | 45416.0 | 41209.7 | 36541.6 | 29958.1 | 21410.4 |
| 75° | 4255.0 | 4266.3 | 6114.0 | 10985.0 | 21286.5 | 35771.7 | 36654.3 | 34160.6 | 28696.2 | 20715.7 | 11431.9 |
| 77.5° | 2024.2 | 2061.8 | 2689.0 | 4904.8 | 11717.3 | 24715.3 | 27096.4 | 24133.2 | 18353.4 | 9952.2 | 4318.9 |
| 80° | 1314.4 | 1340.7 | 1644.9 | 2433.6 | 5746.0 | 14331.2 | 15991.2 | 13921.9 | 8097.0 | 3556.5 | 1862.8 |
| 82.5° | 796.2 | 803.7 | 1100.4 | 1487.2 | 3162.2 | 6489.6 | 7650.1 | 6042.7 | 3455.1 | 2129.4 | 1096.6 |
| 85° | 484.5 | 488.2 | 668.5 | 920.1 | 1919.1 | 2242.1 | 2302.2 | 2283.4 | 2028.0 | 1393.3 | 585.9 |
| 87.5° | 232.8 | 240.4 | 345.5 | 435.6 | 754.9 | 694.8 | 657.2 | 762.4 | 957.7 | 751.1 | 251.6 |
| 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-SA9D-740-U-T4W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7045.4 | 7045.4 | 7045.4 | 7045.4 | 7045.4 | 7045.4 | 7045.4 | 7045.4 | 7045.4 | 7045.4 | 7045.4 |
| 2.5° | 7037.9 | 7026.7 | 7000.4 | 6989.1 | 6981.6 | 6985.3 | 6981.6 | 6981.6 | 6985.3 | 6985.3 | 6985.3 |
| 5° | 7071.7 | 7052.9 | 7011.6 | 7011.6 | 7034.2 | 7086.7 | 7135.6 | 7173.1 | 7214.4 | 7210.7 | 7210.7 |
| 7.5° | 7218.2 | 7184.4 | 7135.6 | 7150.6 | 7206.9 | 7289.5 | 7375.9 | 7458.5 | 7541.2 | 7548.7 | 7544.9 |
| 10° | 7432.3 | 7398.5 | 7345.9 | 7364.7 | 7454.8 | 7578.7 | 7687.6 | 7807.8 | 7897.9 | 7924.2 | 7916.7 |
| 12.5° | 7676.4 | 7608.8 | 7563.7 | 7616.3 | 7759.0 | 7924.2 | 8029.4 | 8119.5 | 8183.4 | 8220.9 | 8205.9 |
| 15° | 7924.2 | 7860.4 | 7807.8 | 7916.7 | 8089.5 | 8243.5 | 8296.0 | 8311.1 | 8322.3 | 8359.9 | 8352.4 |
| 17.5° | 8164.6 | 8078.2 | 8059.4 | 8202.1 | 8367.4 | 8435.0 | 8404.9 | 8341.1 | 8292.3 | 8322.3 | 8318.6 |
| 20° | 8378.7 | 8311.1 | 8303.5 | 8446.3 | 8510.1 | 8446.3 | 8318.6 | 8205.9 | 8119.5 | 8127.0 | 8123.3 |
| 22.5° | 8581.5 | 8528.9 | 8536.4 | 8596.5 | 8495.1 | 8277.3 | 8066.9 | 7913.0 | 7819.1 | 7837.9 | 7849.1 |
| 25° | 8806.8 | 8754.2 | 8773.0 | 8675.3 | 8341.1 | 7961.8 | 7657.6 | 7526.1 | 7488.6 | 7526.1 | 7552.4 |
| 27.5° | 9099.7 | 9065.9 | 9054.7 | 8679.1 | 8066.9 | 7496.1 | 7150.6 | 7101.8 | 7135.6 | 7218.2 | 7259.5 |
| 30° | 9415.2 | 9415.2 | 9355.1 | 8615.3 | 7691.4 | 6936.5 | 6636.1 | 6643.6 | 6760.0 | 6876.4 | 6917.7 |
| 32.5° | 9719.4 | 9783.2 | 9595.5 | 8442.5 | 7206.9 | 6392.0 | 6162.9 | 6170.4 | 6271.8 | 6414.5 | 6452.1 |
| 35° | 9971.0 | 10155.0 | 9802.0 | 8127.0 | 6636.1 | 5933.8 | 5761.0 | 5659.6 | 5663.4 | 5772.3 | 5802.3 |
| 37.5° | 10316.5 | 10658.3 | 9922.2 | 7657.6 | 6027.7 | 5543.2 | 5347.9 | 5171.4 | 5055.0 | 5009.9 | 5009.9 |
| 40° | 10917.4 | 11420.7 | 9952.2 | 6962.8 | 5453.1 | 5171.4 | 4893.5 | 4683.2 | 4457.8 | 4255.0 | 4217.5 |
| 42.5° | 11935.2 | 12569.9 | 9892.1 | 6162.9 | 4934.8 | 4762.0 | 4491.6 | 4232.5 | 3920.8 | 3635.4 | 3612.8 |
| 45° | 13737.8 | 14064.6 | 9730.7 | 5332.9 | 4472.9 | 4367.7 | 4104.8 | 3823.2 | 3492.7 | 3237.3 | 3218.5 |
| 47.5° | 16625.9 | 16163.9 | 9516.6 | 4596.8 | 4052.2 | 4022.2 | 3819.4 | 3492.7 | 3162.2 | 2985.7 | 2966.9 |
| 50° | 20843.4 | 19468.8 | 9486.5 | 4063.5 | 3714.2 | 3729.3 | 3564.0 | 3263.6 | 2974.4 | 2827.9 | 2805.4 |
| 52.5° | 25920.9 | 23461.0 | 9685.6 | 3688.0 | 3417.6 | 3473.9 | 3391.3 | 3113.4 | 2858.0 | 2734.0 | 2711.5 |
| 55° | 30848.2 | 27051.3 | 9805.8 | 3395.0 | 3139.6 | 3244.8 | 3256.1 | 3023.2 | 2790.4 | 2666.4 | 2651.4 |
| 57.5° | 34847.8 | 29755.3 | 9272.5 | 3128.4 | 2899.3 | 3060.8 | 3143.4 | 2970.6 | 2756.6 | 2662.7 | 2647.7 |
| 60° | 37630.7 | 31032.2 | 7755.2 | 2891.8 | 2722.8 | 2914.3 | 3102.1 | 2974.4 | 2839.2 | 2850.5 | 2858.0 |
| 62.5° | 38517.0 | 30465.1 | 5817.4 | 2715.3 | 2602.6 | 2865.5 | 3169.7 | 3128.4 | 2989.4 | 3075.8 | 3090.8 |
| 65° | 37048.6 | 28121.6 | 4217.5 | 2576.3 | 2497.4 | 2899.3 | 3372.5 | 3241.0 | 2936.8 | 3000.7 | 3000.7 |
| 67.5° | 32132.6 | 24227.1 | 3282.4 | 2448.6 | 2377.3 | 2963.1 | 3575.3 | 3229.8 | 2812.9 | 2888.0 | 2820.4 |
| 70° | 25489.0 | 18740.2 | 2734.0 | 2305.9 | 2249.6 | 2869.2 | 3594.1 | 3113.4 | 2666.4 | 2681.5 | 2553.8 |
| 72.5° | 16915.0 | 12322.0 | 2351.0 | 2170.7 | 2054.3 | 2580.1 | 3440.1 | 2963.1 | 2523.7 | 2437.4 | 2309.7 |
| 75° | 8288.5 | 6144.1 | 2050.5 | 2001.7 | 1798.9 | 2245.8 | 3229.8 | 2820.4 | 2369.8 | 2234.6 | 2163.2 |
| 77.5° | 3211.0 | 2613.9 | 1750.1 | 1787.6 | 1566.1 | 1979.2 | 2951.9 | 2617.6 | 2167.0 | 1982.9 | 1926.6 |
| 80° | 1558.6 | 1483.4 | 1434.6 | 1491.0 | 1288.2 | 1686.2 | 2696.5 | 2441.1 | 1979.2 | 1776.4 | 1693.8 |
| 82.5° | 968.9 | 916.4 | 1100.4 | 1160.5 | 991.5 | 1539.8 | 2557.5 | 2290.9 | 1742.6 | 1472.2 | 1404.6 |
| 85° | 492.0 | 525.8 | 736.1 | 792.4 | 709.8 | 1224.3 | 2106.9 | 1720.0 | 1258.1 | 1044.0 | 1051.6 |
| 87.5° | 187.8 | 251.6 | 386.8 | 416.9 | 379.3 | 646.0 | 1160.5 | 1002.7 | 807.4 | 548.3 | 507.0 |
| 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)