

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: P522835

Luminaire Tested: **GLAN-SA7A-760-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522835
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-SA7A-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31876 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

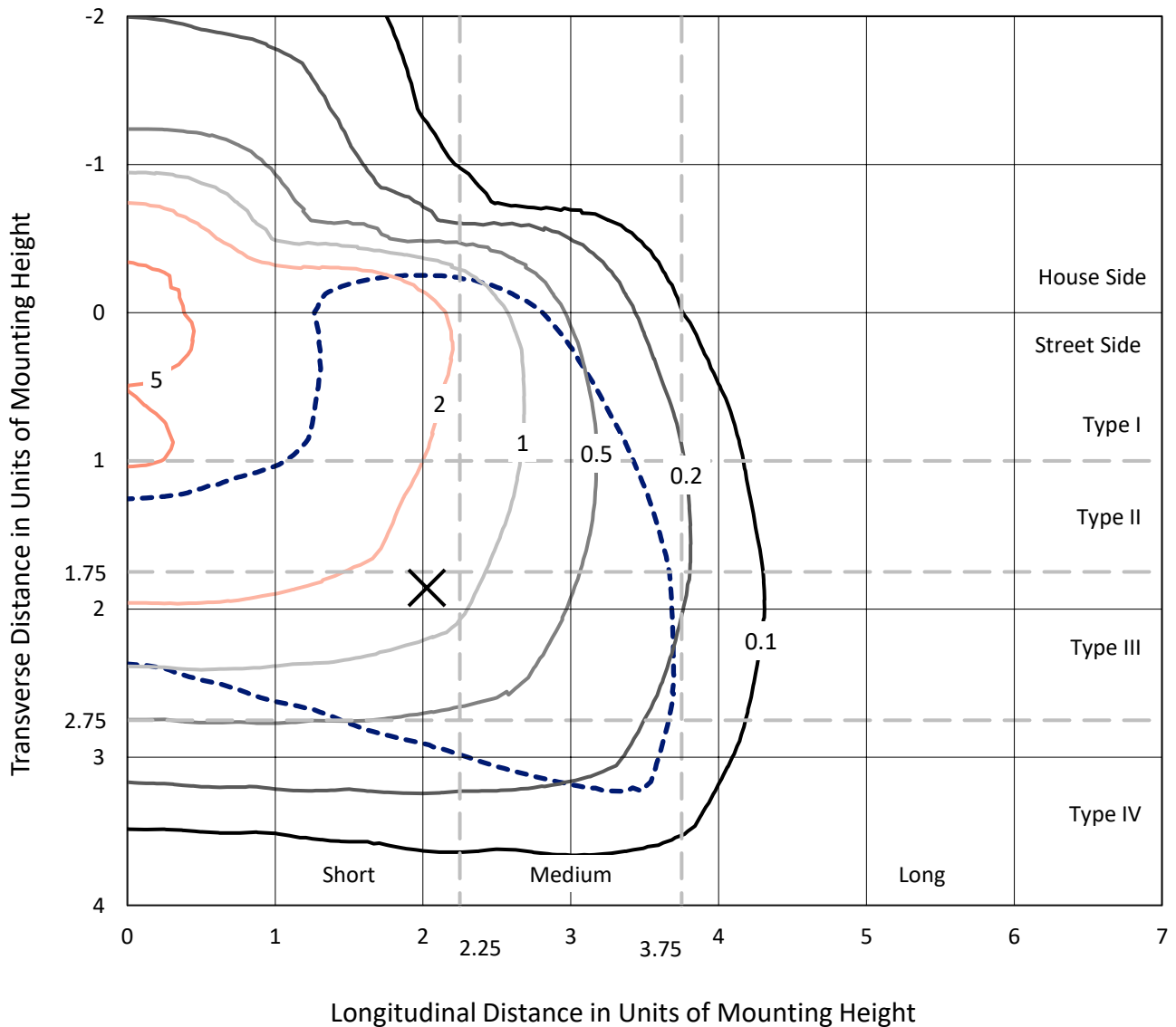
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

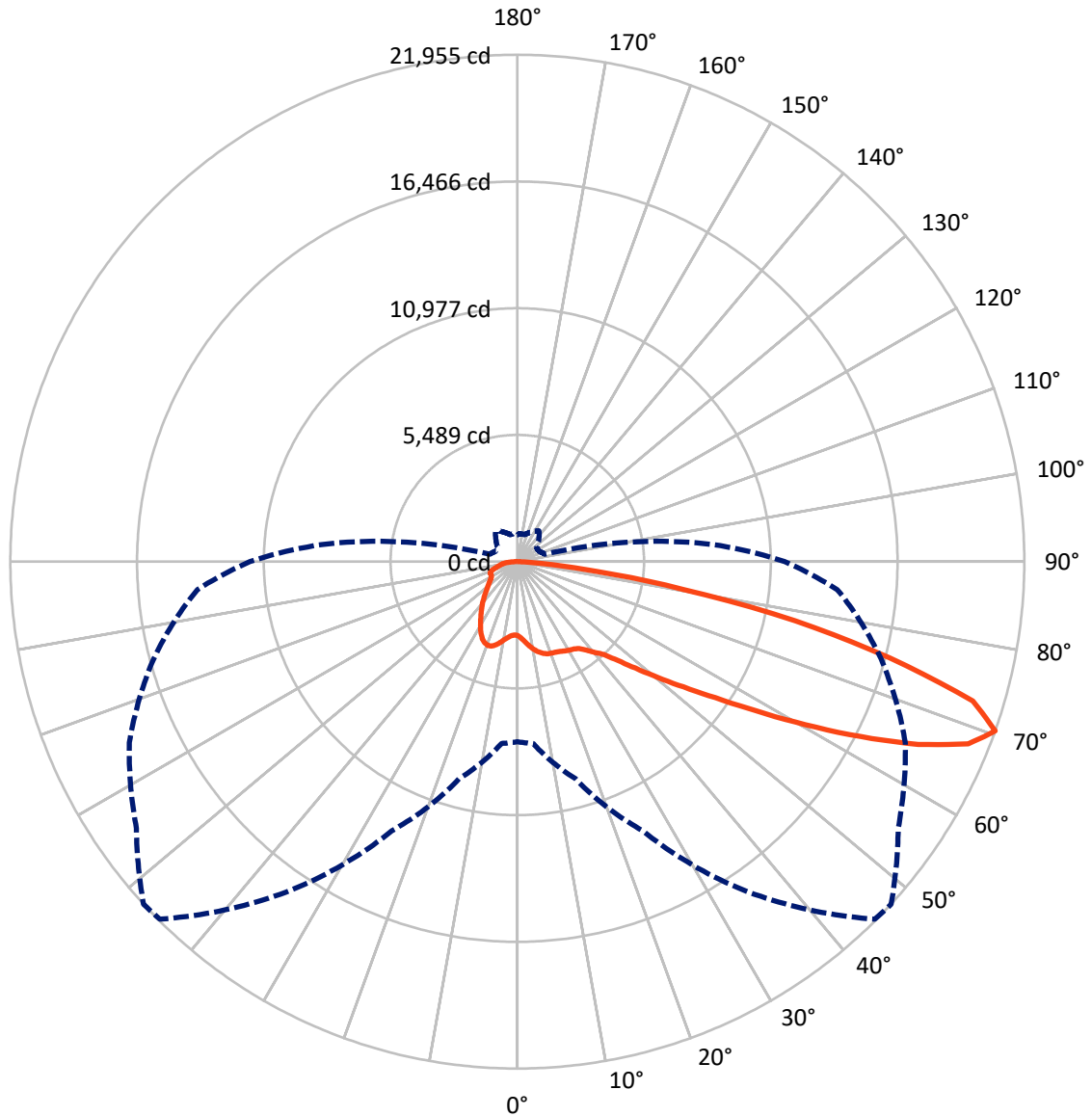
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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 | 7217.3 | 0.0 | 7217.3 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 24658.7 | 0.0 | 24658.7 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 31876.0 | 0.0 | 31876.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 329.8 | 1.0 |
| 10°-20° | 1102.7 | 3.5 |
| 20°-30° | 1833.8 | 5.8 |
| 30°-40° | 2599.1 | 8.2 |
| 40°-50° | 3836.9 | 12.0 |
| 50°-60° | 6645.6 | 20.8 |
| 60°-70° | 9387.2 | 29.4 |
| 70°-80° | 5396.3 | 16.9 |
| 80°-90° | 744.6 | 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° | 31876.0 | 100.0 |
| 0°-180° | 31876.0 | 100.0 |

Coefficient of Utilization



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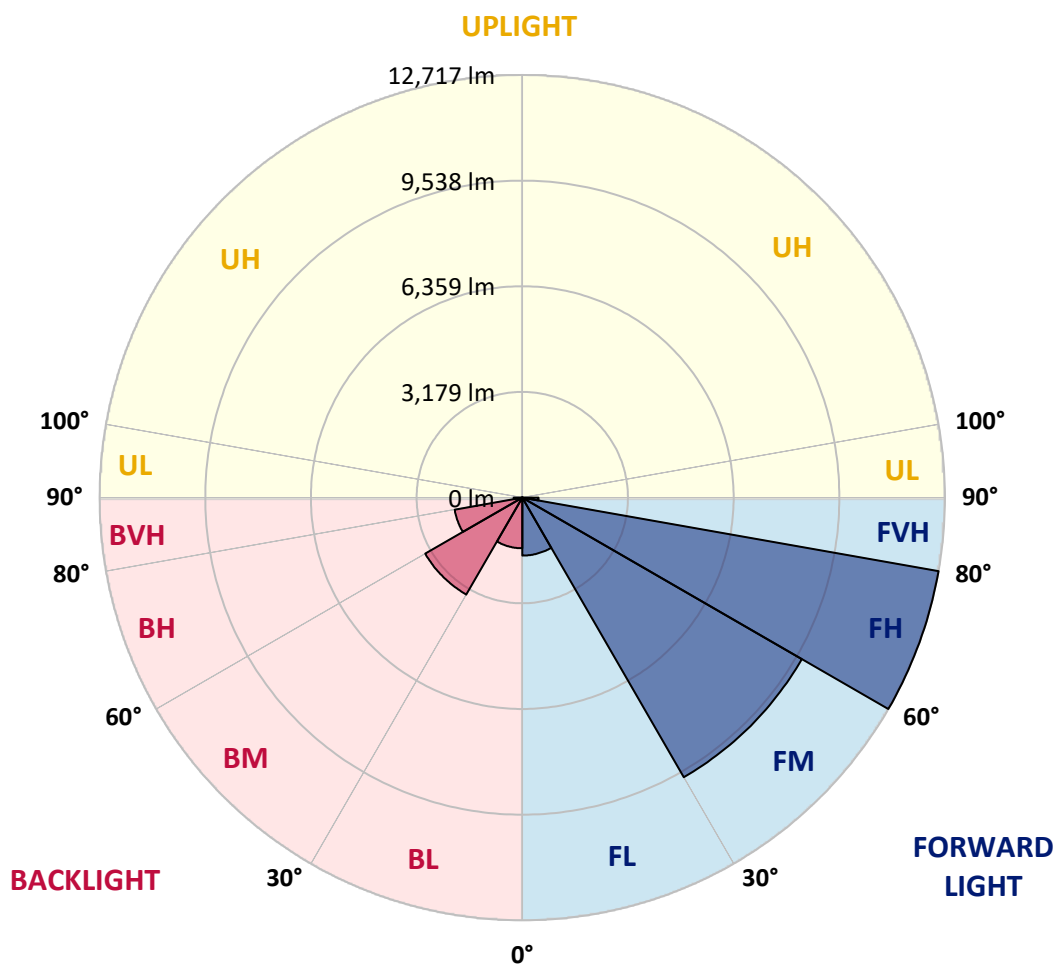
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1743.1 | 5.5 | | | |
| FM | (30°-60°) | 9712.0 | 30.5 | | | |
| FH | (60°-80°) | 12717.2 | 39.9 | | | G5 |
| FVH | (80°-90°) | 486.4 | 1.5 | | | G3/500 |
| BL | (0°-30°) | 1523.3 | 4.8 | B3/2500 | | |
| BM | (30°-60°) | 3369.7 | 10.6 | B3/5000 | | |
| BH | (60°-80°) | 2066.2 | 6.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 258.2 | 0.8 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-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° | 3200.0 | 3200.0 | 3200.0 | 3200.0 | 3200.0 | 3200.0 | 3200.0 | 3200.0 | 3200.0 | 3200.0 | 3200.0 |
| 2.5° | 3406.4 | 3394.4 | 3392.7 | 3367.1 | 3353.5 | 3327.9 | 3317.7 | 3293.8 | 3264.8 | 3235.8 | 3208.5 |
| 5° | 3674.2 | 3674.2 | 3662.2 | 3626.4 | 3570.1 | 3512.1 | 3486.5 | 3440.5 | 3358.6 | 3292.1 | 3235.8 |
| 7.5° | 3948.8 | 3952.2 | 3928.3 | 3875.4 | 3795.3 | 3701.5 | 3677.6 | 3609.3 | 3493.4 | 3396.1 | 3312.5 |
| 10° | 4185.9 | 4185.9 | 4153.5 | 4081.8 | 3981.2 | 3878.9 | 3855.0 | 3778.2 | 3648.6 | 3527.5 | 3418.3 |
| 12.5° | 4366.7 | 4366.7 | 4324.0 | 4230.2 | 4121.1 | 4029.0 | 4001.7 | 3928.3 | 3807.2 | 3672.5 | 3534.3 |
| 15° | 4484.4 | 4475.9 | 4428.1 | 4322.3 | 4216.6 | 4136.4 | 4117.7 | 4056.2 | 3945.4 | 3808.9 | 3653.7 |
| 17.5° | 4489.5 | 4486.1 | 4440.0 | 4351.3 | 4259.2 | 4204.6 | 4192.7 | 4151.8 | 4064.8 | 3935.1 | 3771.4 |
| 20° | 4390.6 | 4397.4 | 4366.7 | 4303.6 | 4259.2 | 4235.4 | 4230.2 | 4216.6 | 4155.2 | 4034.1 | 3870.3 |
| 22.5° | 4284.8 | 4296.8 | 4267.8 | 4233.6 | 4230.2 | 4254.1 | 4257.5 | 4260.9 | 4221.7 | 4104.0 | 3953.9 |
| 25° | 4259.2 | 4267.8 | 4238.8 | 4208.1 | 4226.8 | 4289.9 | 4303.6 | 4317.2 | 4286.5 | 4187.6 | 4052.8 |
| 27.5° | 4388.9 | 4382.0 | 4325.8 | 4259.2 | 4271.2 | 4356.5 | 4375.2 | 4390.6 | 4375.2 | 4289.9 | 4175.6 |
| 30° | 4755.6 | 4733.4 | 4620.8 | 4426.4 | 4365.0 | 4424.7 | 4443.5 | 4486.1 | 4486.1 | 4423.0 | 4308.7 |
| 32.5° | 5369.7 | 5327.0 | 5120.6 | 4738.5 | 4525.3 | 4489.5 | 4508.3 | 4578.2 | 4614.0 | 4564.6 | 4440.0 |
| 35° | 6115.1 | 6070.7 | 5775.6 | 5262.2 | 4818.7 | 4619.1 | 4614.0 | 4692.5 | 4788.0 | 4677.1 | 4515.1 |
| 37.5° | 6863.9 | 6817.8 | 6463.0 | 5886.5 | 5246.9 | 4892.1 | 4861.4 | 4888.6 | 4929.6 | 4726.6 | 4619.1 |
| 40° | 7612.7 | 7558.1 | 7247.7 | 6584.2 | 5770.5 | 5253.7 | 5173.5 | 5050.7 | 5033.6 | 4888.6 | 4820.4 |
| 42.5° | 8354.7 | 8305.2 | 8148.3 | 7367.1 | 6398.2 | 5606.8 | 5484.0 | 5272.4 | 5337.3 | 5250.3 | 5190.6 |
| 45° | 9103.5 | 9106.9 | 8939.8 | 8245.5 | 7155.6 | 6258.4 | 6092.9 | 5762.0 | 5915.5 | 5883.1 | 5917.2 |
| 47.5° | 9767.1 | 9758.5 | 9698.8 | 9098.4 | 8095.4 | 7097.6 | 6884.4 | 6500.6 | 6763.3 | 6882.7 | 7143.6 |
| 50° | 10410.1 | 10405.0 | 10408.4 | 10065.6 | 9187.1 | 8095.4 | 7860.0 | 7457.5 | 8049.4 | 8463.9 | 8931.3 |
| 52.5° | 11331.2 | 11360.2 | 11153.8 | 11063.4 | 10514.2 | 9274.1 | 9014.8 | 8598.6 | 9569.2 | 10222.5 | 11135.1 |
| 55° | 12255.7 | 12231.9 | 12069.8 | 12163.6 | 11902.6 | 10669.4 | 10398.2 | 10067.3 | 11261.3 | 11976.0 | 13347.4 |
| 57.5° | 12799.9 | 12808.4 | 12973.9 | 13432.7 | 13616.9 | 12409.3 | 12163.6 | 11907.8 | 13163.2 | 13669.8 | 15315.8 |
| 60° | 13289.4 | 13328.6 | 13804.5 | 14671.1 | 15170.8 | 14546.5 | 14328.2 | 14079.2 | 14908.2 | 15109.4 | 17025.0 |
| 62.5° | 13442.9 | 13564.0 | 14394.7 | 15691.1 | 16685.5 | 16958.5 | 16687.2 | 16138.0 | 16569.6 | 16491.1 | 18183.2 |
| 65° | 12677.1 | 12842.5 | 14331.6 | 16073.2 | 18038.2 | 19247.6 | 19075.3 | 18055.3 | 17985.3 | 17512.8 | 18372.5 |
| 67.5° | 10660.9 | 10826.3 | 12738.5 | 15271.5 | 18597.7 | 21229.6 | 21057.4 | 19454.0 | 18845.0 | 17608.3 | 16939.7 |
| 70° | 7800.3 | 7904.4 | 9732.9 | 12857.9 | 17473.6 | 21894.9 | 21954.6 | 20136.3 | 18538.0 | 16310.3 | 13908.6 |
| 72.5° | 4494.6 | 4724.9 | 6005.9 | 9045.5 | 14275.3 | 20213.0 | 20627.5 | 18717.1 | 16596.8 | 13606.7 | 9724.4 |
| 75° | 1932.6 | 1937.7 | 2776.9 | 4989.3 | 9668.1 | 16247.2 | 16648.0 | 15515.4 | 13033.6 | 9408.9 | 5192.3 |
| 77.5° | 919.4 | 936.5 | 1221.3 | 2227.7 | 5321.9 | 11225.5 | 12306.9 | 10961.1 | 8335.9 | 4520.2 | 1961.6 |
| 80° | 597.0 | 608.9 | 747.1 | 1105.3 | 2609.8 | 6509.1 | 7263.0 | 6323.2 | 3677.6 | 1615.3 | 846.0 |
| 82.5° | 361.6 | 365.0 | 499.8 | 675.5 | 1436.2 | 2947.5 | 3474.6 | 2744.5 | 1569.3 | 967.2 | 498.1 |
| 85° | 220.0 | 221.7 | 303.6 | 417.9 | 871.6 | 1018.3 | 1045.6 | 1037.1 | 921.1 | 632.8 | 266.1 |
| 87.5° | 105.8 | 109.2 | 156.9 | 197.9 | 342.9 | 315.6 | 298.5 | 346.3 | 435.0 | 341.1 | 114.3 |
| 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-SA7A-760-U-T4W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3200.0 | 3200.0 | 3200.0 | 3200.0 | 3200.0 | 3200.0 | 3200.0 | 3200.0 | 3200.0 | 3200.0 | 3200.0 |
| 2.5° | 3196.6 | 3191.4 | 3179.5 | 3174.4 | 3171.0 | 3172.7 | 3171.0 | 3171.0 | 3172.7 | 3172.7 | 3172.7 |
| 5° | 3211.9 | 3203.4 | 3184.6 | 3184.6 | 3194.8 | 3218.7 | 3240.9 | 3258.0 | 3276.7 | 3275.0 | 3275.0 |
| 7.5° | 3278.4 | 3263.1 | 3240.9 | 3247.7 | 3273.3 | 3310.8 | 3350.1 | 3387.6 | 3425.1 | 3428.5 | 3426.8 |
| 10° | 3375.7 | 3360.3 | 3336.4 | 3345.0 | 3385.9 | 3442.2 | 3491.6 | 3546.2 | 3587.2 | 3599.1 | 3595.7 |
| 12.5° | 3486.5 | 3455.8 | 3435.4 | 3459.2 | 3524.1 | 3599.1 | 3646.9 | 3687.8 | 3716.8 | 3733.9 | 3727.0 |
| 15° | 3599.1 | 3570.1 | 3546.2 | 3595.7 | 3674.2 | 3744.1 | 3768.0 | 3774.8 | 3779.9 | 3797.0 | 3793.6 |
| 17.5° | 3708.3 | 3669.0 | 3660.5 | 3725.3 | 3800.4 | 3831.1 | 3817.4 | 3788.4 | 3766.3 | 3779.9 | 3778.2 |
| 20° | 3805.5 | 3774.8 | 3771.4 | 3836.2 | 3865.2 | 3836.2 | 3778.2 | 3727.0 | 3687.8 | 3691.2 | 3689.5 |
| 22.5° | 3897.6 | 3873.7 | 3877.1 | 3904.4 | 3858.4 | 3759.4 | 3663.9 | 3594.0 | 3551.3 | 3559.9 | 3565.0 |
| 25° | 4000.0 | 3976.1 | 3984.6 | 3940.3 | 3788.4 | 3616.2 | 3478.0 | 3418.3 | 3401.2 | 3418.3 | 3430.2 |
| 27.5° | 4133.0 | 4117.7 | 4112.5 | 3942.0 | 3663.9 | 3404.7 | 3247.7 | 3225.6 | 3240.9 | 3278.4 | 3297.2 |
| 30° | 4276.3 | 4276.3 | 4249.0 | 3913.0 | 3493.4 | 3150.5 | 3014.0 | 3017.5 | 3070.3 | 3123.2 | 3142.0 |
| 32.5° | 4414.5 | 4443.5 | 4358.2 | 3834.5 | 3273.3 | 2903.2 | 2799.1 | 2802.5 | 2848.6 | 2913.4 | 2930.5 |
| 35° | 4528.7 | 4612.3 | 4452.0 | 3691.2 | 3014.0 | 2695.1 | 2616.6 | 2570.5 | 2572.3 | 2621.7 | 2635.4 |
| 37.5° | 4685.7 | 4840.9 | 4506.6 | 3478.0 | 2737.7 | 2517.7 | 2429.0 | 2348.8 | 2295.9 | 2275.5 | 2275.5 |
| 40° | 4958.6 | 5187.2 | 4520.2 | 3162.4 | 2476.7 | 2348.8 | 2222.6 | 2127.1 | 2024.7 | 1932.6 | 1915.5 |
| 42.5° | 5420.8 | 5709.1 | 4492.9 | 2799.1 | 2241.3 | 2162.9 | 2040.1 | 1922.4 | 1780.8 | 1651.2 | 1640.9 |
| 45° | 6239.6 | 6388.0 | 4419.6 | 2422.1 | 2031.5 | 1983.8 | 1864.4 | 1736.4 | 1586.3 | 1470.3 | 1461.8 |
| 47.5° | 7551.3 | 7341.5 | 4322.3 | 2087.8 | 1840.5 | 1826.8 | 1734.7 | 1586.3 | 1436.2 | 1356.1 | 1347.5 |
| 50° | 9466.9 | 8842.6 | 4308.7 | 1845.6 | 1687.0 | 1693.8 | 1618.7 | 1482.3 | 1350.9 | 1284.4 | 1274.2 |
| 52.5° | 11773.0 | 10655.8 | 4399.1 | 1675.0 | 1552.2 | 1577.8 | 1540.3 | 1414.1 | 1298.1 | 1241.8 | 1231.5 |
| 55° | 14010.9 | 12286.4 | 4453.7 | 1542.0 | 1426.0 | 1473.8 | 1478.9 | 1373.1 | 1267.4 | 1211.1 | 1204.3 |
| 57.5° | 15827.6 | 13514.6 | 4211.5 | 1420.9 | 1316.8 | 1390.2 | 1427.7 | 1349.2 | 1252.0 | 1209.4 | 1202.5 |
| 60° | 17091.5 | 14094.5 | 3522.4 | 1313.4 | 1236.7 | 1323.7 | 1408.9 | 1350.9 | 1289.5 | 1294.7 | 1298.1 |
| 62.5° | 17494.1 | 13837.0 | 2642.2 | 1233.2 | 1182.1 | 1301.5 | 1439.6 | 1420.9 | 1357.8 | 1397.0 | 1403.8 |
| 65° | 16827.1 | 12772.6 | 1915.5 | 1170.1 | 1134.3 | 1316.8 | 1531.8 | 1472.1 | 1333.9 | 1362.9 | 1362.9 |
| 67.5° | 14594.3 | 11003.7 | 1490.8 | 1112.1 | 1079.7 | 1345.8 | 1623.9 | 1466.9 | 1277.6 | 1311.7 | 1281.0 |
| 70° | 11576.9 | 8511.6 | 1241.8 | 1047.3 | 1021.7 | 1303.2 | 1632.4 | 1414.1 | 1211.1 | 1217.9 | 1159.9 |
| 72.5° | 7682.6 | 5596.5 | 1067.8 | 985.9 | 933.0 | 1171.8 | 1562.5 | 1345.8 | 1146.3 | 1107.0 | 1049.0 |
| 75° | 3764.6 | 2790.6 | 931.3 | 909.2 | 817.0 | 1020.0 | 1466.9 | 1281.0 | 1076.3 | 1014.9 | 982.5 |
| 77.5° | 1458.4 | 1187.2 | 794.9 | 811.9 | 711.3 | 898.9 | 1340.7 | 1188.9 | 984.2 | 900.6 | 875.0 |
| 80° | 707.9 | 673.8 | 651.6 | 677.2 | 585.1 | 765.9 | 1224.7 | 1108.7 | 898.9 | 806.8 | 769.3 |
| 82.5° | 440.1 | 416.2 | 499.8 | 527.1 | 450.3 | 699.4 | 1161.6 | 1040.5 | 791.5 | 668.6 | 637.9 |
| 85° | 223.5 | 238.8 | 334.3 | 359.9 | 322.4 | 556.1 | 956.9 | 781.2 | 571.4 | 474.2 | 477.6 |
| 87.5° | 85.3 | 114.3 | 175.7 | 189.3 | 172.3 | 293.4 | 527.1 | 455.4 | 366.7 | 249.0 | 230.3 |
| 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)