

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: P457523

Luminaire Tested: **GLAN-SA8D-760-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8D-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44982 lumens
Efficiency: N/A
Efficacy: 91.2 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

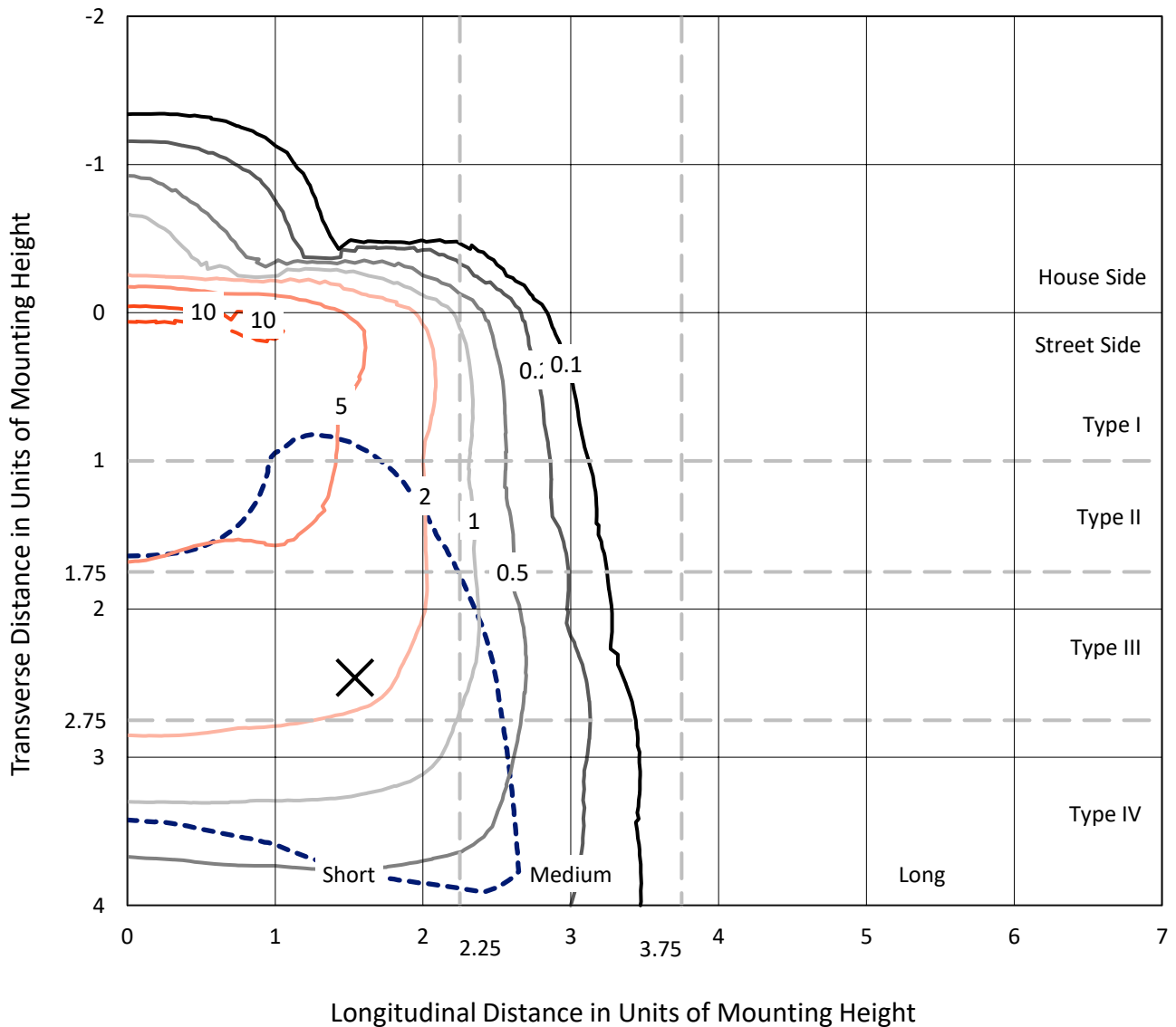
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

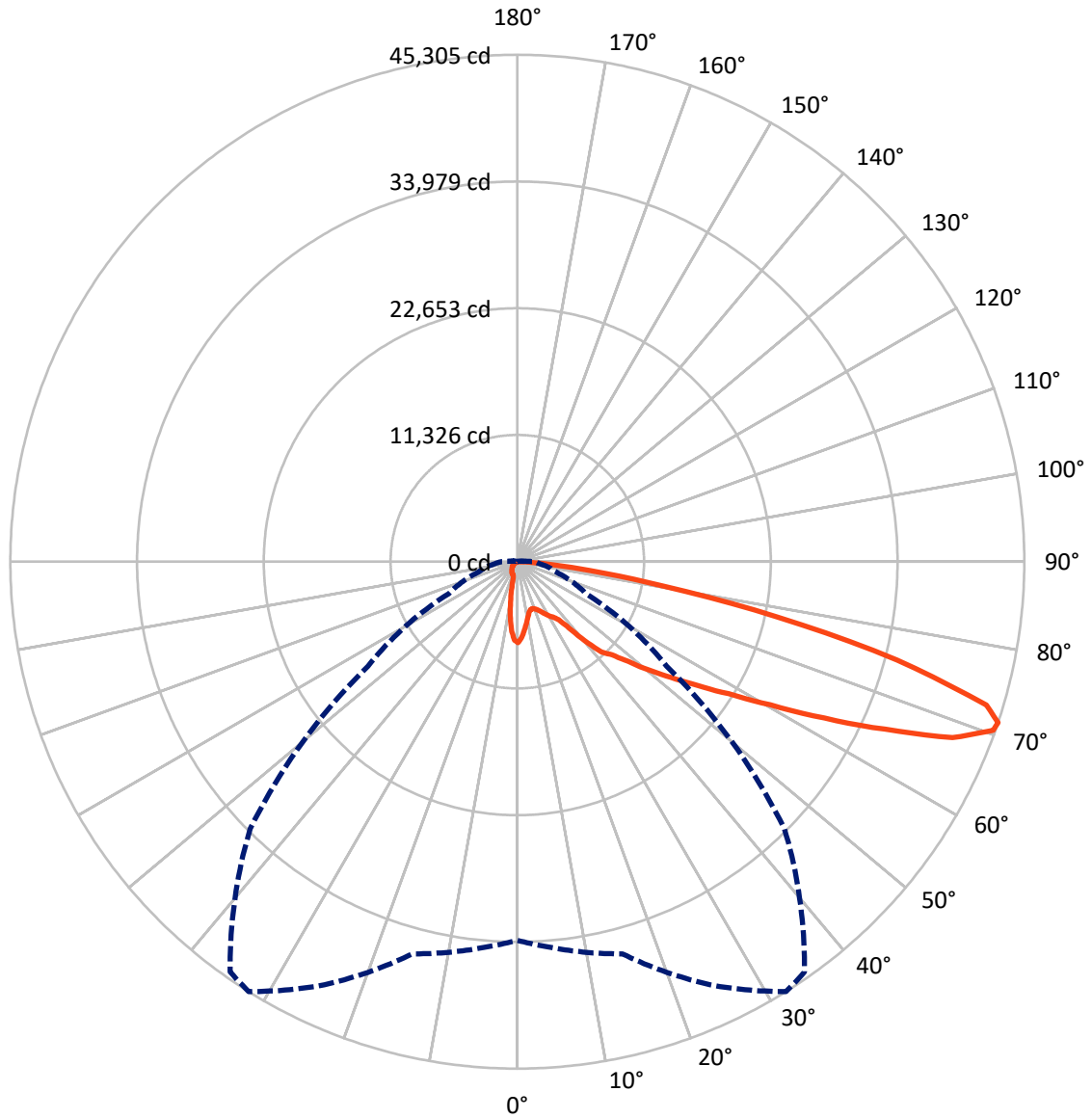
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P457523
CATALOG NUMBER: GLAN-SA8D-760-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3767.7 | 0.0 | 3767.7 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 41214.3 | 0.0 | 41214.3 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 44982.0 | 0.0 | 44982.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 588.2 | 1.3 |
| 10°-20° | 1276.6 | 2.8 |
| 20°-30° | 1986.0 | 4.4 |
| 30°-40° | 3308.6 | 7.4 |
| 40°-50° | 6154.6 | 13.7 |
| 50°-60° | 9881.5 | 22.0 |
| 60°-70° | 13291.1 | 29.5 |
| 70°-80° | 7885.8 | 17.5 |
| 80°-90° | 609.5 | 1.4 |
| 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° | 44982.0 | 100.0 |
| 0°-180° | 44982.0 | 100.0 |



REPORT NUMBER: P457523

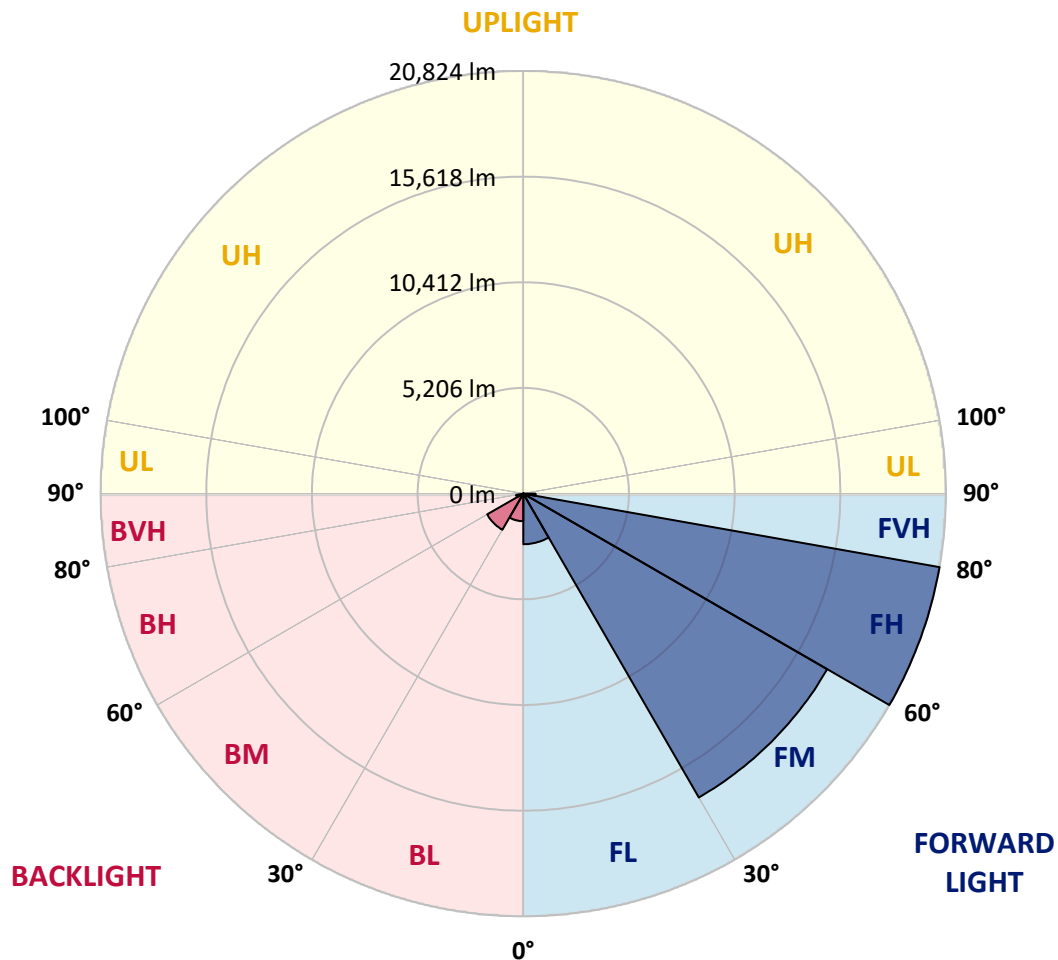
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 2493.2 | 5.5 | | | |
| FM | (30°-60°) | 17289.4 | 38.4 | | | |
| FH | (60°-80°) | 20824.5 | 46.3 | | | G5 |
| FVH | (80°-90°) | 607.2 | 1.3 | | | G4/750 |
| BL | (0°-30°) | 1357.6 | 3.0 | B3/2500 | | |
| BM | (30°-60°) | 2055.4 | 4.6 | B2/2500 | | |
| BH | (60°-80°) | 352.4 | 0.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 2.4 | 0.0 | | | G0/10 |
| 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





REPORT NUMBER: P457523

CATALOG NUMBER: GLAN-SA8D-760-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 32° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7233.8 | 7233.8 | 7233.8 | 7233.8 | 7233.8 | 7233.8 | 7233.8 | 7233.8 | 7233.8 | 7233.8 | 7233.8 |
| 2.5° | 6709.0 | 6778.0 | 6767.7 | 6791.8 | 6850.5 | 6874.7 | 6940.3 | 7012.8 | 7113.0 | 7182.0 | 7226.9 |
| 5° | 6008.0 | 6059.8 | 6066.7 | 6187.6 | 6246.3 | 6311.9 | 6505.2 | 6715.9 | 6950.7 | 7137.1 | 7261.4 |
| 7.5° | 5258.8 | 5286.4 | 5341.6 | 5500.5 | 5648.9 | 5714.5 | 6008.0 | 6374.0 | 6743.5 | 7092.2 | 7316.7 |
| 10° | 4640.7 | 4671.8 | 4771.9 | 4941.1 | 5079.2 | 5165.5 | 5573.0 | 6032.2 | 6550.1 | 7068.1 | 7396.1 |
| 12.5° | 4288.5 | 4305.8 | 4343.7 | 4495.7 | 4671.8 | 4765.0 | 5203.5 | 5728.3 | 6394.8 | 7078.4 | 7530.8 |
| 15° | 4264.3 | 4257.4 | 4212.5 | 4274.7 | 4433.5 | 4530.2 | 4958.4 | 5521.2 | 6256.6 | 7113.0 | 7689.6 |
| 17.5° | 4392.1 | 4374.8 | 4267.8 | 4267.8 | 4399.0 | 4478.4 | 4854.8 | 5410.7 | 6187.6 | 7192.4 | 7914.0 |
| 20° | 4588.9 | 4561.3 | 4385.2 | 4371.4 | 4499.1 | 4582.0 | 4916.9 | 5417.6 | 6201.4 | 7340.8 | 8214.4 |
| 22.5° | 4837.5 | 4806.4 | 4540.6 | 4547.5 | 4685.6 | 4768.4 | 5096.5 | 5541.9 | 6287.7 | 7523.9 | 8535.5 |
| 25° | 5162.1 | 5127.5 | 4813.3 | 4799.5 | 4944.5 | 5017.1 | 5362.3 | 5762.9 | 6408.6 | 7751.7 | 8956.8 |
| 27.5° | 5593.7 | 5521.2 | 5144.8 | 5124.1 | 5279.5 | 5372.7 | 5683.5 | 6059.8 | 6622.6 | 8066.0 | 9523.1 |
| 30° | 5949.3 | 5869.9 | 5510.8 | 5455.6 | 5621.3 | 5693.8 | 6014.9 | 6460.4 | 7043.9 | 8615.0 | 10306.9 |
| 32.5° | 6415.5 | 6298.1 | 5876.8 | 5731.8 | 5907.9 | 6001.1 | 6494.9 | 7206.2 | 7668.9 | 9195.1 | 11239.2 |
| 35° | 7465.2 | 7392.6 | 6878.2 | 6370.6 | 6360.2 | 6477.6 | 7202.7 | 7958.9 | 8311.1 | 10099.7 | 12509.8 |
| 37.5° | 8967.2 | 8915.4 | 8369.8 | 7689.6 | 7492.8 | 7437.5 | 8062.5 | 8787.6 | 9336.6 | 11342.7 | 13987.7 |
| 40° | 10710.9 | 10590.0 | 10089.3 | 9512.7 | 9257.2 | 9094.9 | 9077.7 | 10020.3 | 10676.3 | 13031.2 | 15527.7 |
| 42.5° | 11960.8 | 11739.8 | 11132.1 | 11090.7 | 11035.4 | 10866.3 | 10375.9 | 11822.7 | 12406.2 | 14847.4 | 17174.7 |
| 45° | 13272.9 | 12938.0 | 12033.3 | 11877.9 | 11857.2 | 11846.9 | 12337.2 | 13956.6 | 14291.5 | 16815.6 | 18866.6 |
| 47.5° | 14291.5 | 14025.6 | 13283.3 | 13214.2 | 13300.5 | 13535.3 | 14930.3 | 16221.7 | 16152.6 | 18569.7 | 20285.7 |
| 50° | 15648.5 | 15448.2 | 14623.0 | 14754.2 | 15199.6 | 15582.9 | 17854.9 | 18690.5 | 17682.3 | 19950.8 | 21318.2 |
| 52.5° | 17250.6 | 16881.2 | 16114.6 | 16470.3 | 17154.0 | 17792.8 | 20959.1 | 20852.0 | 18756.1 | 20990.1 | 22088.1 |
| 55° | 18638.7 | 18376.3 | 18113.9 | 18483.3 | 19505.4 | 20303.0 | 23762.8 | 22471.4 | 19536.5 | 21825.7 | 22426.5 |
| 57.5° | 20986.7 | 20924.5 | 20655.2 | 21031.6 | 22271.2 | 23099.8 | 26273.1 | 23728.3 | 20037.1 | 22260.8 | 22029.4 |
| 60° | 24460.3 | 24360.2 | 23859.5 | 24339.4 | 25955.4 | 27257.1 | 28586.5 | 24857.4 | 20151.1 | 22091.6 | 20886.5 |
| 62.5° | 28638.3 | 28296.4 | 27868.3 | 28576.1 | 30792.9 | 31366.1 | 30765.3 | 25527.2 | 19726.4 | 20745.0 | 18131.1 |
| 65° | 32540.1 | 32187.9 | 32198.2 | 33689.9 | 36103.4 | 36493.6 | 33306.6 | 25427.1 | 18483.3 | 17371.5 | 13373.0 |
| 67.5° | 35526.8 | 35468.1 | 35889.4 | 38800.1 | 41956.1 | 41686.8 | 35578.6 | 23928.5 | 14799.1 | 11259.9 | 7106.1 |
| 70° | 35678.7 | 35792.7 | 37001.2 | 41914.7 | 45118.9 | 44690.8 | 35385.2 | 19450.1 | 9226.1 | 5179.3 | 2800.3 |
| 71° | 33841.8 | 34608.3 | 36279.5 | 41818.0 | 45305.4 | 44749.5 | 33755.5 | 16290.7 | 6767.7 | 3611.7 | 2019.9 |
| 72.5° | 28838.6 | 29242.5 | 32854.3 | 39356.1 | 43831.0 | 42643.2 | 29622.4 | 11418.7 | 4333.4 | 2209.9 | 1160.2 |
| 75° | 15883.3 | 16877.7 | 22001.8 | 30875.8 | 35057.2 | 34014.4 | 19305.1 | 5424.5 | 2161.5 | 1208.5 | 480.0 |
| 77.5° | 7561.8 | 7368.5 | 10735.0 | 18362.5 | 23769.7 | 23714.5 | 9726.8 | 2410.1 | 1260.3 | 818.3 | 241.7 |
| 80° | 2161.5 | 2430.8 | 4108.9 | 8728.9 | 13197.0 | 13342.0 | 3736.0 | 1163.6 | 873.6 | 638.8 | 124.3 |
| 82.5° | 652.6 | 666.4 | 1508.9 | 3860.3 | 6563.9 | 6187.6 | 1401.9 | 593.9 | 628.4 | 507.6 | 72.5 |
| 85° | 113.9 | 141.6 | 445.4 | 1360.4 | 2503.3 | 1899.1 | 352.2 | 283.1 | 414.3 | 334.9 | 41.4 |
| 87.5° | 6.9 | 10.4 | 148.5 | 155.4 | 221.0 | 127.8 | 62.2 | 41.4 | 89.8 | 89.8 | 24.2 |
| 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-760-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7233.8 | 7233.8 | 7233.8 | 7233.8 | 7233.8 | 7233.8 | 7233.8 | 7233.8 | 7233.8 | 7233.8 | 7233.8 |
| 2.5° | 7258.0 | 7278.7 | 7264.9 | 7233.8 | 7182.0 | 7119.9 | 7037.0 | 6967.9 | 6909.2 | 6878.2 | 6916.1 |
| 5° | 7302.9 | 7330.5 | 7261.4 | 7106.1 | 6871.3 | 6615.7 | 6325.7 | 6101.3 | 5925.2 | 5869.9 | 5849.2 |
| 7.5° | 7371.9 | 7389.2 | 7202.7 | 6857.4 | 6360.2 | 5756.0 | 5227.7 | 4782.3 | 4437.0 | 4333.4 | 4181.5 |
| 10° | 7461.7 | 7451.3 | 7099.1 | 6456.9 | 5583.3 | 4675.2 | 3856.9 | 3249.2 | 2789.9 | 2624.2 | 2610.4 |
| 12.5° | 7599.8 | 7544.6 | 6967.9 | 5911.4 | 4658.0 | 3470.2 | 2458.5 | 1923.3 | 1633.2 | 1536.5 | 1515.8 |
| 15° | 7772.5 | 7641.2 | 6760.8 | 5272.6 | 3566.8 | 2240.9 | 1515.8 | 1353.5 | 1315.6 | 1308.6 | 1301.7 |
| 17.5° | 7976.2 | 7769.0 | 6488.0 | 4488.8 | 2506.8 | 1453.7 | 1267.2 | 1263.8 | 1267.2 | 1260.3 | 1256.9 |
| 20° | 8252.4 | 7903.7 | 6163.4 | 3559.9 | 1657.4 | 1225.8 | 1208.5 | 1208.5 | 1212.0 | 1208.5 | 1208.5 |
| 22.5° | 8545.9 | 8062.5 | 5762.9 | 2717.4 | 1249.9 | 1163.6 | 1160.2 | 1167.1 | 1174.0 | 1170.5 | 1170.5 |
| 25° | 8908.5 | 8269.7 | 5234.6 | 1861.1 | 1118.7 | 1111.8 | 1115.3 | 1129.1 | 1142.9 | 1146.4 | 1142.9 |
| 27.5° | 9433.3 | 8525.2 | 4668.3 | 1281.0 | 1025.5 | 1032.4 | 1066.9 | 1101.5 | 1122.2 | 1125.6 | 1125.6 |
| 30° | 10023.7 | 8808.3 | 3929.4 | 1039.3 | 949.5 | 949.5 | 991.0 | 1056.6 | 1101.5 | 1108.4 | 1111.8 |
| 32.5° | 10783.4 | 9136.4 | 3111.1 | 935.7 | 877.0 | 870.1 | 908.1 | 987.5 | 1070.4 | 1094.6 | 1094.6 |
| 35° | 11722.6 | 9523.1 | 2313.4 | 870.1 | 825.2 | 808.0 | 828.7 | 894.3 | 1001.3 | 1070.4 | 1077.3 |
| 37.5° | 12824.0 | 9889.1 | 1691.9 | 811.4 | 776.9 | 752.7 | 766.5 | 818.3 | 904.7 | 1008.2 | 1035.9 |
| 40° | 13842.6 | 10213.7 | 1263.8 | 763.1 | 728.6 | 711.3 | 721.7 | 745.8 | 818.3 | 915.0 | 932.3 |
| 42.5° | 14954.5 | 10465.7 | 1004.8 | 711.3 | 680.2 | 673.3 | 673.3 | 683.7 | 732.0 | 787.3 | 790.7 |
| 45° | 16062.9 | 10555.5 | 842.5 | 649.1 | 628.4 | 635.3 | 631.9 | 625.0 | 645.7 | 638.8 | 638.8 |
| 47.5° | 16853.6 | 10448.5 | 697.5 | 590.4 | 590.4 | 600.8 | 583.5 | 559.4 | 549.0 | 507.6 | 511.0 |
| 50° | 17395.7 | 10058.3 | 573.2 | 521.4 | 549.0 | 562.8 | 528.3 | 490.3 | 452.3 | 407.4 | 397.1 |
| 52.5° | 17620.1 | 9364.2 | 469.6 | 431.6 | 486.9 | 504.1 | 462.7 | 417.8 | 359.1 | 321.1 | 310.8 |
| 55° | 17475.1 | 8507.9 | 390.2 | 352.2 | 410.9 | 431.6 | 390.2 | 338.4 | 272.8 | 231.3 | 224.4 |
| 57.5° | 16836.3 | 7485.9 | 331.5 | 279.7 | 328.0 | 341.8 | 314.2 | 259.0 | 193.4 | 151.9 | 151.9 |
| 60° | 15731.4 | 6429.3 | 269.3 | 221.0 | 245.2 | 265.9 | 238.2 | 186.5 | 131.2 | 93.2 | 86.3 |
| 62.5° | 13490.4 | 5220.8 | 217.5 | 172.6 | 172.6 | 189.9 | 165.7 | 134.7 | 82.9 | 48.3 | 44.9 |
| 65° | 9740.6 | 3580.6 | 172.6 | 127.8 | 124.3 | 124.3 | 103.6 | 89.8 | 48.3 | 20.7 | 13.8 |
| 67.5° | 5293.3 | 2019.9 | 138.1 | 96.7 | 86.3 | 82.9 | 65.6 | 51.8 | 20.7 | 3.5 | 0.0 |
| 70° | 2082.1 | 776.9 | 107.0 | 65.6 | 55.2 | 51.8 | 34.5 | 24.2 | 13.8 | 0.0 | 0.0 |
| 71° | 1412.2 | 535.2 | 93.2 | 55.2 | 44.9 | 38.0 | 27.6 | 20.7 | 10.4 | 0.0 | 0.0 |
| 72.5° | 808.0 | 331.5 | 72.5 | 41.4 | 34.5 | 27.6 | 20.7 | 13.8 | 10.4 | 0.0 | 0.0 |
| 75° | 352.2 | 169.2 | 44.9 | 31.1 | 24.2 | 17.3 | 13.8 | 10.4 | 3.5 | 0.0 | 0.0 |
| 77.5° | 179.6 | 93.2 | 31.1 | 24.2 | 13.8 | 10.4 | 6.9 | 3.5 | 0.0 | 0.0 | 0.0 |
| 80° | 100.1 | 48.3 | 20.7 | 13.8 | 10.4 | 6.9 | 3.5 | 3.5 | 0.0 | 0.0 | 0.0 |
| 82.5° | 55.2 | 27.6 | 10.4 | 6.9 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 34.5 | 17.3 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 17.3 | 6.9 | 0.0 | 0.0 | 0.0 | 0.0 | 3.5 | 3.5 | 0.0 | 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)