

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: P531764

Luminaire Tested: **GLAN-SA7A-750-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7A-750-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28742 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

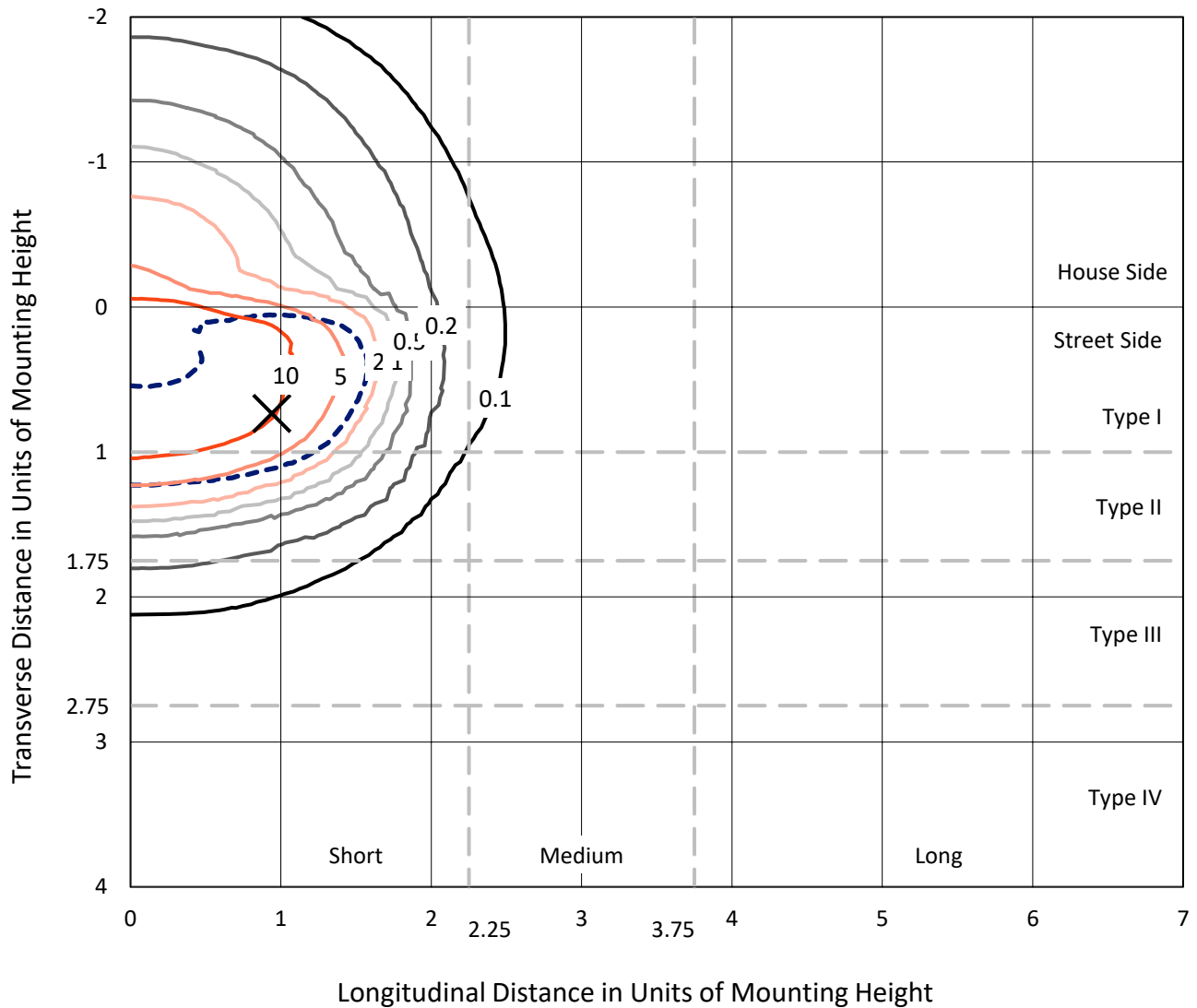
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

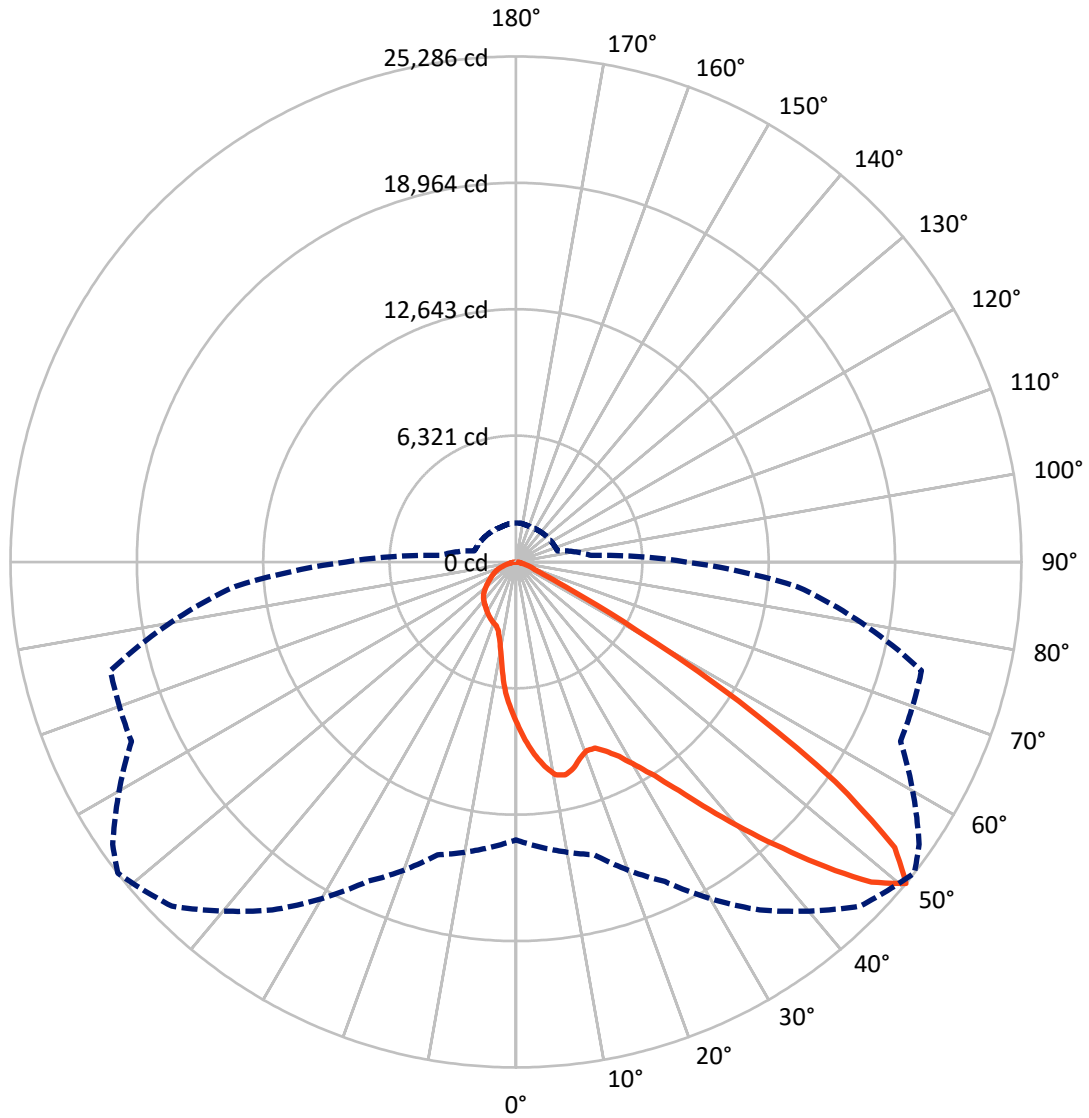
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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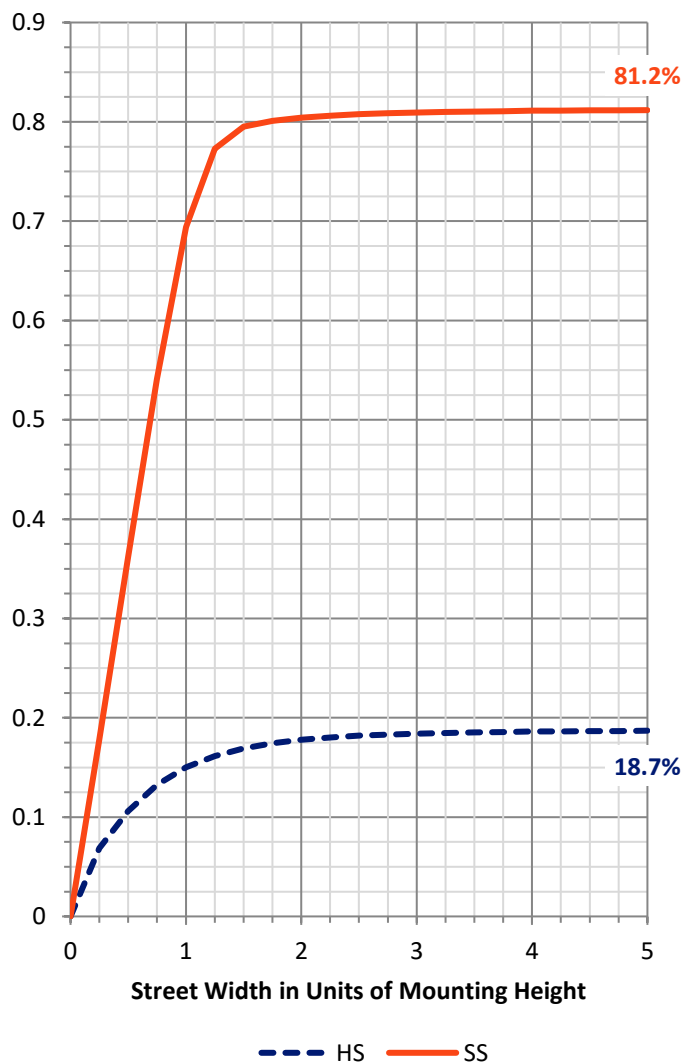
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5402.8 | 0.0 | 5402.8 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 23339.2 | 0.0 | 23339.2 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 28742.0 | 0.0 | 28742.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 746.8 | 2.6 |
| 10°-20° | 2001.5 | 7.0 |
| 20°-30° | 3371.4 | 11.7 |
| 30°-40° | 5657.5 | 19.7 |
| 40°-50° | 8654.6 | 30.1 |
| 50°-60° | 6309.9 | 22.0 |
| 60°-70° | 1404.3 | 4.9 |
| 70°-80° | 506.5 | 1.8 |
| 80°-90° | 89.7 | 0.3 |
| 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° | 28742.0 | 100.0 |
| 0°-180° | 28742.0 | 100.0 |

Coefficient of Utilization



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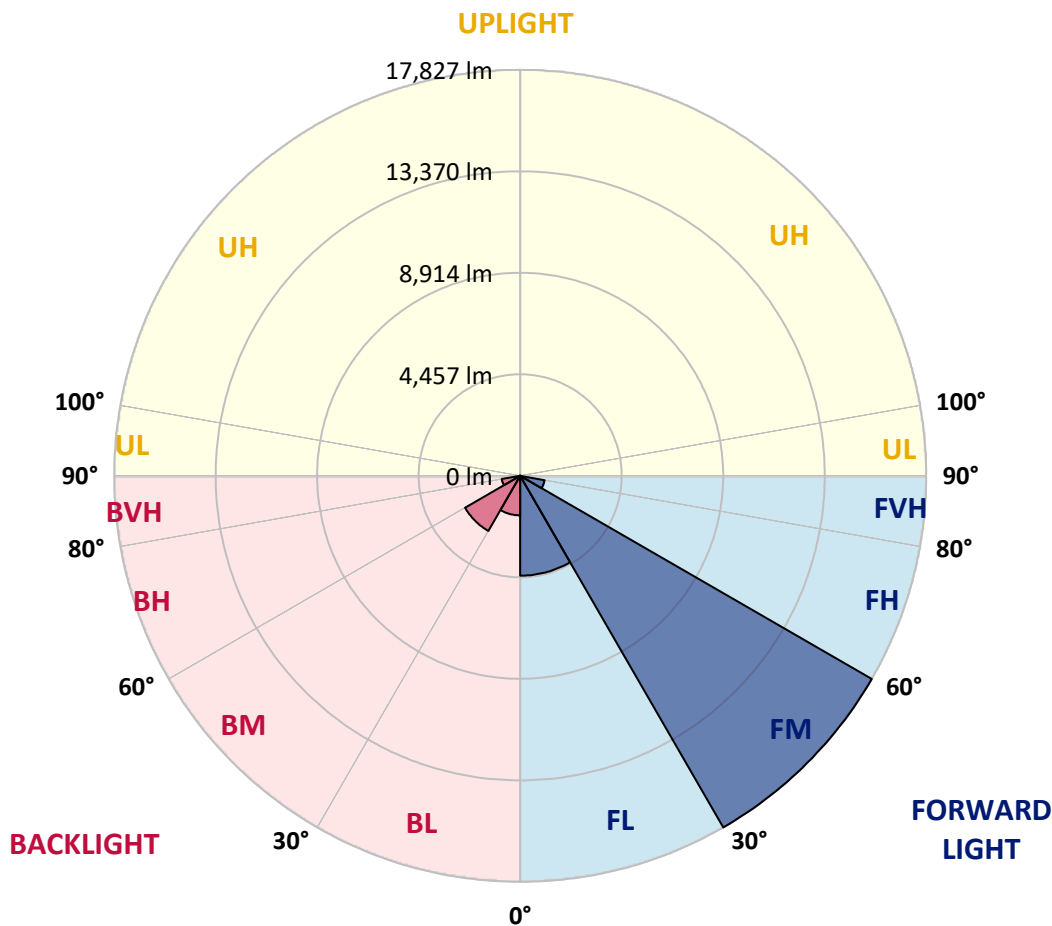
CATALOG NUMBER: GLAN-SA7A-750-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4384.1 | 15.3 | | | |
| FM (30°-60°) | 17827.2 | 62.0 | | | |
| FH (60°-80°) | 1087.6 | 3.8 | | | G1/1800 |
| FVH (80°-90°) | 40.2 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1735.5 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 2794.7 | 9.7 | B3/5000 | | |
| BH (60°-80°) | 823.1 | 2.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 49.5 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8101.9 | 8101.9 | 8101.9 | 8101.9 | 8101.9 | 8101.9 | 8101.9 | 8101.9 | 8101.9 | 8101.9 | 8101.9 |
| 2.5° | 9539.4 | 9355.8 | 9376.6 | 9245.0 | 9102.9 | 9061.4 | 8915.9 | 8777.3 | 8673.4 | 8451.7 | 8247.4 |
| 5° | 10426.1 | 10370.7 | 10287.6 | 10183.7 | 10076.3 | 9813.0 | 9664.1 | 9490.9 | 9109.9 | 8766.9 | 8427.5 |
| 7.5° | 10554.3 | 10543.9 | 10588.9 | 10588.9 | 10627.0 | 10526.6 | 10315.3 | 10194.0 | 9788.8 | 9231.1 | 8600.7 |
| 10° | 9653.7 | 9684.9 | 9903.1 | 10187.1 | 10582.0 | 10855.6 | 10821.0 | 10789.8 | 10346.5 | 9584.4 | 8805.1 |
| 12.5° | 8936.7 | 8867.4 | 8995.6 | 9238.0 | 9830.3 | 10491.9 | 10938.8 | 10942.2 | 10827.9 | 10149.0 | 8954.0 |
| 15° | 8531.4 | 8579.9 | 8614.5 | 8728.8 | 9175.7 | 9941.2 | 10727.5 | 10959.6 | 11461.8 | 10547.4 | 9189.5 |
| 17.5° | 8791.2 | 8628.4 | 8621.5 | 8649.2 | 8877.8 | 9452.8 | 10336.1 | 10734.4 | 11808.2 | 11060.0 | 9480.5 |
| 20° | 9130.7 | 9127.2 | 9030.2 | 8995.6 | 8992.1 | 9504.7 | 10079.7 | 10620.1 | 11991.8 | 11725.1 | 9774.9 |
| 22.5° | 9726.4 | 9726.4 | 9567.1 | 9490.9 | 9328.1 | 9747.2 | 10114.4 | 10481.5 | 12296.6 | 12182.3 | 9916.9 |
| 25° | 10724.0 | 10561.2 | 10287.6 | 10100.5 | 10007.0 | 10155.9 | 10481.5 | 10810.6 | 12563.3 | 12667.2 | 10211.4 |
| 27.5° | 11645.4 | 11389.1 | 11254.0 | 10931.8 | 10807.1 | 10720.5 | 11018.4 | 11351.0 | 12875.0 | 13422.3 | 10370.7 |
| 30° | 12691.5 | 12646.4 | 12404.0 | 11988.3 | 11680.0 | 11520.7 | 11794.3 | 12123.4 | 13446.6 | 14194.8 | 10737.9 |
| 32.5° | 14561.9 | 14153.2 | 13824.1 | 13315.0 | 12812.7 | 12473.2 | 12743.4 | 12961.6 | 14395.7 | 15001.8 | 11139.7 |
| 35° | 16581.3 | 16449.7 | 15881.7 | 14963.7 | 14194.8 | 13889.9 | 14049.3 | 14212.1 | 15500.6 | 16235.0 | 11815.1 |
| 37.5° | 18566.1 | 18386.0 | 17918.4 | 17145.9 | 16210.7 | 15590.7 | 15705.0 | 15895.5 | 16740.7 | 17897.6 | 12639.5 |
| 40° | 19993.2 | 19771.5 | 19536.0 | 19421.7 | 18493.4 | 17644.7 | 17578.9 | 17627.4 | 18417.2 | 19456.3 | 13554.0 |
| 42.5° | 20097.1 | 20370.8 | 20443.5 | 20904.2 | 20686.0 | 19989.8 | 19584.5 | 19594.9 | 20017.5 | 20997.7 | 14478.8 |
| 45° | 19878.9 | 19626.0 | 20162.9 | 21420.3 | 22140.8 | 22466.4 | 21784.0 | 21697.4 | 21008.1 | 21891.4 | 14939.5 |
| 47.5° | 17589.3 | 17658.6 | 18566.1 | 20554.4 | 22636.1 | 24090.9 | 23931.6 | 23644.1 | 21538.1 | 21860.2 | 14866.7 |
| 50° | 13903.8 | 14322.9 | 15164.6 | 17641.3 | 21250.6 | 24347.2 | 25285.9 | 24620.9 | 21222.9 | 21001.2 | 14125.5 |
| 52.5° | 9258.8 | 9432.0 | 9986.2 | 13183.3 | 17087.1 | 21763.2 | 23727.2 | 23879.6 | 20931.9 | 19875.4 | 13186.8 |
| 55° | 4122.0 | 4108.1 | 4887.5 | 6886.1 | 10720.5 | 16560.6 | 19387.0 | 20315.4 | 19813.1 | 18728.9 | 12272.3 |
| 57.5° | 1745.8 | 1804.7 | 2123.3 | 2975.4 | 5271.9 | 9993.1 | 13134.8 | 13948.8 | 15237.4 | 15379.4 | 9414.7 |
| 60° | 1181.2 | 1188.1 | 1274.7 | 1489.4 | 2206.5 | 4693.5 | 6889.6 | 7866.4 | 8787.7 | 8725.4 | 4994.8 |
| 62.5° | 928.3 | 952.6 | 1018.4 | 1105.0 | 1309.3 | 2130.3 | 3082.8 | 3626.6 | 3685.5 | 3100.1 | 1894.7 |
| 65° | 793.2 | 796.7 | 862.5 | 935.2 | 1025.3 | 1240.1 | 1486.0 | 1513.7 | 1531.0 | 1475.6 | 1392.5 |
| 67.5° | 654.7 | 661.6 | 713.5 | 796.7 | 879.8 | 949.1 | 1018.4 | 1053.0 | 1132.7 | 1288.5 | 1267.8 |
| 70° | 519.6 | 530.0 | 575.0 | 644.3 | 720.5 | 762.0 | 848.6 | 879.8 | 952.6 | 1073.8 | 1122.3 |
| 72.5° | 394.9 | 398.3 | 436.4 | 484.9 | 554.2 | 595.8 | 668.5 | 703.2 | 751.7 | 855.6 | 900.6 |
| 75° | 284.0 | 294.4 | 322.1 | 346.4 | 356.8 | 384.5 | 453.8 | 491.9 | 561.1 | 606.2 | 609.6 |
| 77.5° | 148.9 | 155.9 | 162.8 | 162.8 | 197.4 | 249.4 | 294.4 | 315.2 | 363.7 | 398.3 | 381.0 |
| 80° | 58.9 | 62.3 | 79.7 | 107.4 | 138.6 | 180.1 | 211.3 | 221.7 | 263.3 | 284.0 | 294.4 |
| 82.5° | 34.6 | 38.1 | 52.0 | 76.2 | 100.5 | 128.2 | 152.4 | 162.8 | 190.5 | 214.8 | 221.7 |
| 85° | 17.3 | 20.8 | 31.2 | 48.5 | 65.8 | 79.7 | 76.2 | 72.7 | 72.7 | 69.3 | 72.7 |
| 87.5° | 6.9 | 6.9 | 10.4 | 10.4 | 10.4 | 13.9 | 17.3 | 17.3 | 17.3 | 20.8 | 20.8 |
| 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-SA7A-750-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8101.9 | 8101.9 | 8101.9 | 8101.9 | 8101.9 | 8101.9 | 8101.9 | 8101.9 | 8101.9 | 8101.9 | 8101.9 |
| 2.5° | 8112.3 | 7973.7 | 7845.6 | 7610.0 | 7353.7 | 7281.0 | 6983.1 | 6875.7 | 6799.5 | 6709.4 | 6681.7 |
| 5° | 8153.9 | 7970.3 | 7558.1 | 7083.5 | 6706.0 | 6221.0 | 5902.4 | 5559.4 | 5310.0 | 5247.7 | 5230.4 |
| 7.5° | 8240.4 | 7925.2 | 7215.2 | 6498.1 | 5725.7 | 5067.6 | 4565.3 | 4295.1 | 4056.1 | 4042.3 | 4018.0 |
| 10° | 8337.4 | 7790.1 | 6841.1 | 5715.3 | 4728.1 | 4118.5 | 3817.1 | 3699.4 | 3640.5 | 3626.6 | 3619.7 |
| 12.5° | 8417.1 | 7762.4 | 6421.9 | 4953.3 | 4021.5 | 3654.3 | 3564.3 | 3553.9 | 3578.1 | 3585.1 | 3598.9 |
| 15° | 8451.7 | 7651.6 | 5916.2 | 4270.9 | 3581.6 | 3446.5 | 3484.6 | 3526.2 | 3543.5 | 3588.5 | 3553.9 |
| 17.5° | 8517.6 | 7509.6 | 5292.7 | 3730.5 | 3335.7 | 3359.9 | 3425.7 | 3474.2 | 3501.9 | 3533.1 | 3488.1 |
| 20° | 8552.2 | 7381.4 | 4707.3 | 3408.4 | 3249.1 | 3294.1 | 3384.2 | 3422.3 | 3456.9 | 3470.8 | 3418.8 |
| 22.5° | 8521.0 | 7118.2 | 4191.2 | 3148.6 | 3165.9 | 3224.8 | 3304.5 | 3346.1 | 3325.3 | 3269.9 | 3238.7 |
| 25° | 8437.9 | 6747.5 | 3654.3 | 2982.4 | 3048.2 | 3152.1 | 3214.4 | 3183.3 | 3145.2 | 3114.0 | 3103.6 |
| 27.5° | 8434.4 | 6293.8 | 3266.4 | 2829.9 | 2947.7 | 3089.7 | 3069.0 | 3041.2 | 3058.6 | 3034.3 | 3006.6 |
| 30° | 8451.7 | 5853.9 | 2947.7 | 2743.4 | 2875.0 | 2944.3 | 2968.5 | 2940.8 | 2961.6 | 2916.5 | 2930.4 |
| 32.5° | 8361.7 | 5424.4 | 2739.9 | 2642.9 | 2788.4 | 2784.9 | 2864.6 | 2885.4 | 2836.9 | 2743.4 | 2757.2 |
| 35° | 8399.8 | 5078.0 | 2563.2 | 2597.9 | 2691.4 | 2691.4 | 2753.7 | 2729.5 | 2601.3 | 2545.9 | 2559.8 |
| 37.5° | 8663.0 | 4738.5 | 2476.6 | 2535.5 | 2597.9 | 2625.6 | 2604.8 | 2500.9 | 2469.7 | 2469.7 | 2476.6 |
| 40° | 8912.4 | 4447.6 | 2424.7 | 2521.7 | 2511.3 | 2528.6 | 2376.2 | 2386.6 | 2386.6 | 2390.0 | 2372.7 |
| 42.5° | 9134.1 | 4250.1 | 2383.1 | 2438.5 | 2455.9 | 2365.8 | 2272.3 | 2261.9 | 2286.1 | 2282.7 | 2268.8 |
| 45° | 9213.8 | 4087.3 | 2324.2 | 2345.0 | 2358.9 | 2209.9 | 2164.9 | 2144.1 | 2171.8 | 2182.2 | 2196.1 |
| 47.5° | 8909.0 | 3952.2 | 2258.4 | 2216.8 | 2189.1 | 2092.2 | 2033.3 | 1995.2 | 2029.8 | 2088.7 | 2102.5 |
| 50° | 8517.6 | 3775.6 | 2154.5 | 2074.8 | 2015.9 | 1974.4 | 1932.8 | 1894.7 | 1919.0 | 1960.5 | 1950.1 |
| 52.5° | 7939.1 | 3498.5 | 2022.9 | 1939.7 | 1839.3 | 1849.7 | 1811.6 | 1790.8 | 1804.7 | 1804.7 | 1794.3 |
| 55° | 7114.7 | 2875.0 | 1801.2 | 1742.3 | 1659.2 | 1686.9 | 1693.8 | 1666.1 | 1638.4 | 1662.6 | 1641.9 |
| 57.5° | 4856.3 | 2029.8 | 1607.2 | 1607.2 | 1524.1 | 1562.2 | 1558.7 | 1492.9 | 1427.1 | 1434.0 | 1420.2 |
| 60° | 2809.2 | 1617.6 | 1482.5 | 1468.7 | 1382.1 | 1413.2 | 1420.2 | 1375.1 | 1274.7 | 1281.6 | 1267.8 |
| 62.5° | 1596.8 | 1382.1 | 1295.5 | 1274.7 | 1257.4 | 1285.1 | 1285.1 | 1226.2 | 1139.6 | 1146.5 | 1132.7 |
| 65° | 1357.8 | 1281.6 | 1156.9 | 1153.5 | 1146.5 | 1153.5 | 1125.7 | 1063.4 | 987.2 | 956.0 | 959.5 |
| 67.5° | 1233.1 | 1184.6 | 1063.4 | 1032.2 | 1011.4 | 1008.0 | 956.0 | 897.1 | 862.5 | 834.8 | 831.3 |
| 70° | 1080.7 | 1042.6 | 952.6 | 911.0 | 890.2 | 841.7 | 789.8 | 751.7 | 703.2 | 689.3 | 703.2 |
| 72.5° | 855.6 | 852.1 | 817.5 | 772.4 | 727.4 | 689.3 | 644.3 | 592.3 | 547.3 | 536.9 | 512.6 |
| 75° | 592.3 | 599.2 | 606.2 | 599.2 | 561.1 | 512.6 | 460.7 | 419.1 | 363.7 | 332.5 | 325.6 |
| 77.5° | 387.9 | 398.3 | 408.7 | 394.9 | 370.6 | 325.6 | 291.0 | 239.0 | 197.4 | 173.2 | 169.7 |
| 80° | 284.0 | 297.9 | 304.8 | 294.4 | 266.7 | 232.1 | 194.0 | 152.4 | 121.2 | 100.5 | 100.5 |
| 82.5° | 218.2 | 232.1 | 239.0 | 221.7 | 194.0 | 166.3 | 138.6 | 107.4 | 83.1 | 65.8 | 62.3 |
| 85° | 76.2 | 72.7 | 86.6 | 90.1 | 107.4 | 100.5 | 83.1 | 62.3 | 48.5 | 34.6 | 31.2 |
| 87.5° | 20.8 | 20.8 | 24.2 | 24.2 | 20.8 | 17.3 | 17.3 | 17.3 | 13.9 | 10.4 | 10.4 |
| 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)