

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: P533401

Luminaire Tested: **GLAN-SA8D-750-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8D-750-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46599 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

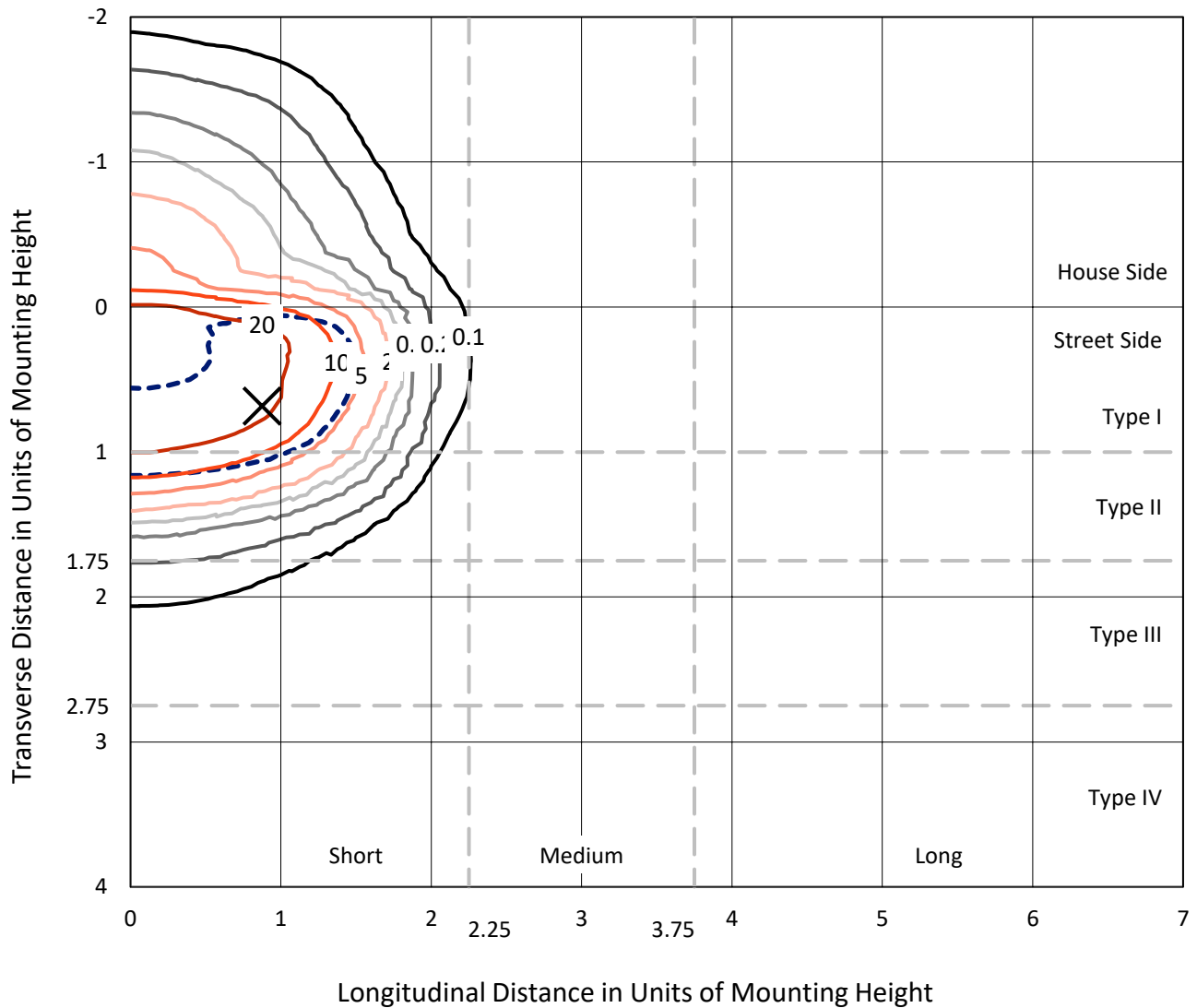
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

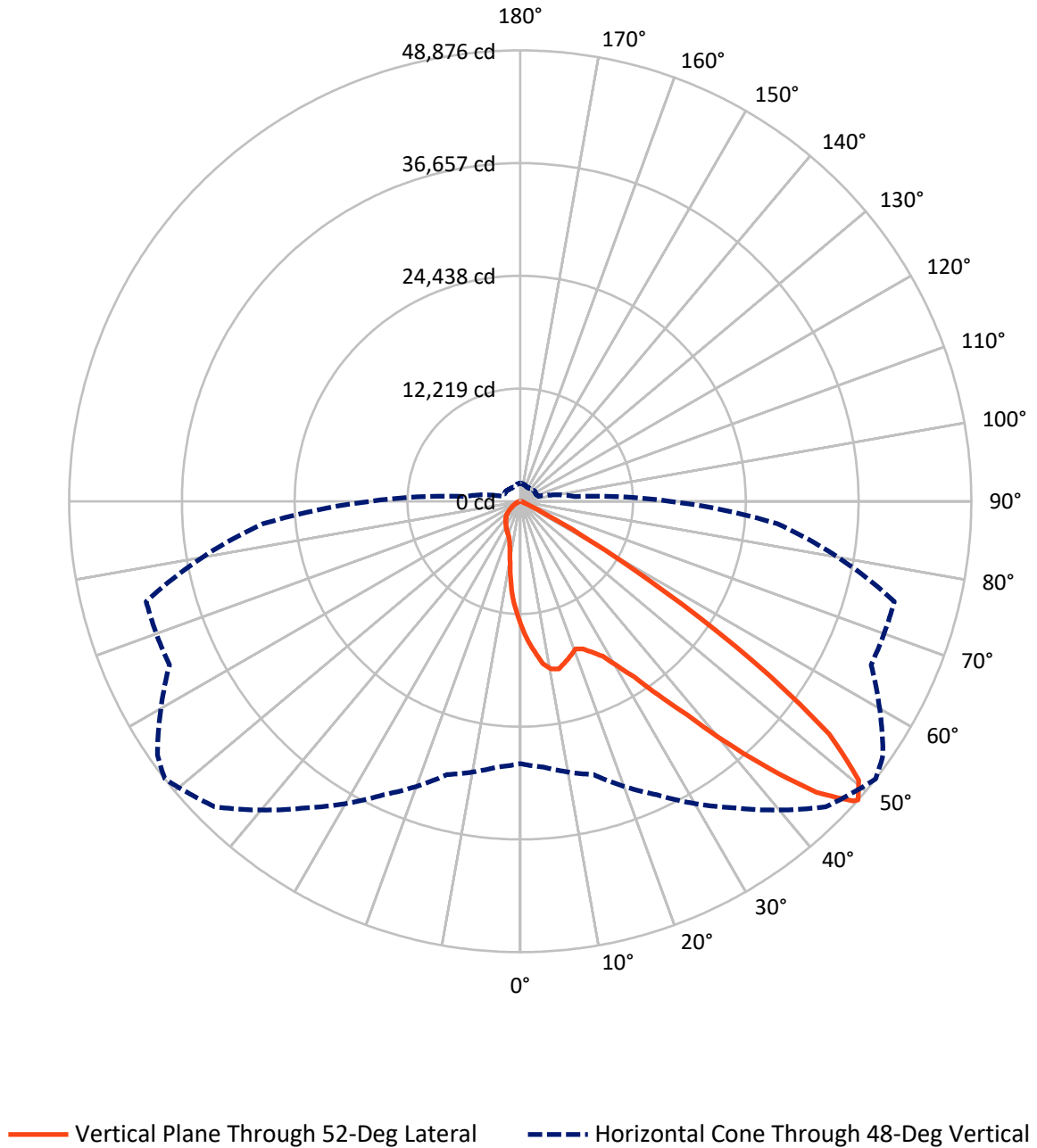
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5673.8 | 0.0 | 5673.8 |
| | % Fixture | 12.2 | 0.0 | 12.2 |
| Street Side | Lumens | 40925.2 | 0.0 | 40925.2 |
| | % Fixture | 87.8 | 0.0 | 87.8 |
| Total | Lumens | 46599.0 | 0.0 | 46599.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1231.7 | 2.6 |
| 10°-20° | 3218.9 | 6.9 |
| 20°-30° | 5495.9 | 11.8 |
| 30°-40° | 10120.8 | 21.7 |
| 40°-50° | 15717.6 | 33.7 |
| 50°-60° | 9459.3 | 20.3 |
| 60°-70° | 1094.1 | 2.3 |
| 70°-80° | 211.8 | 0.5 |
| 80°-90° | 49.0 | 0.1 |
| 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° | 46599.0 | 100.0 |
| 0°-180° | 46599.0 | 100.0 |



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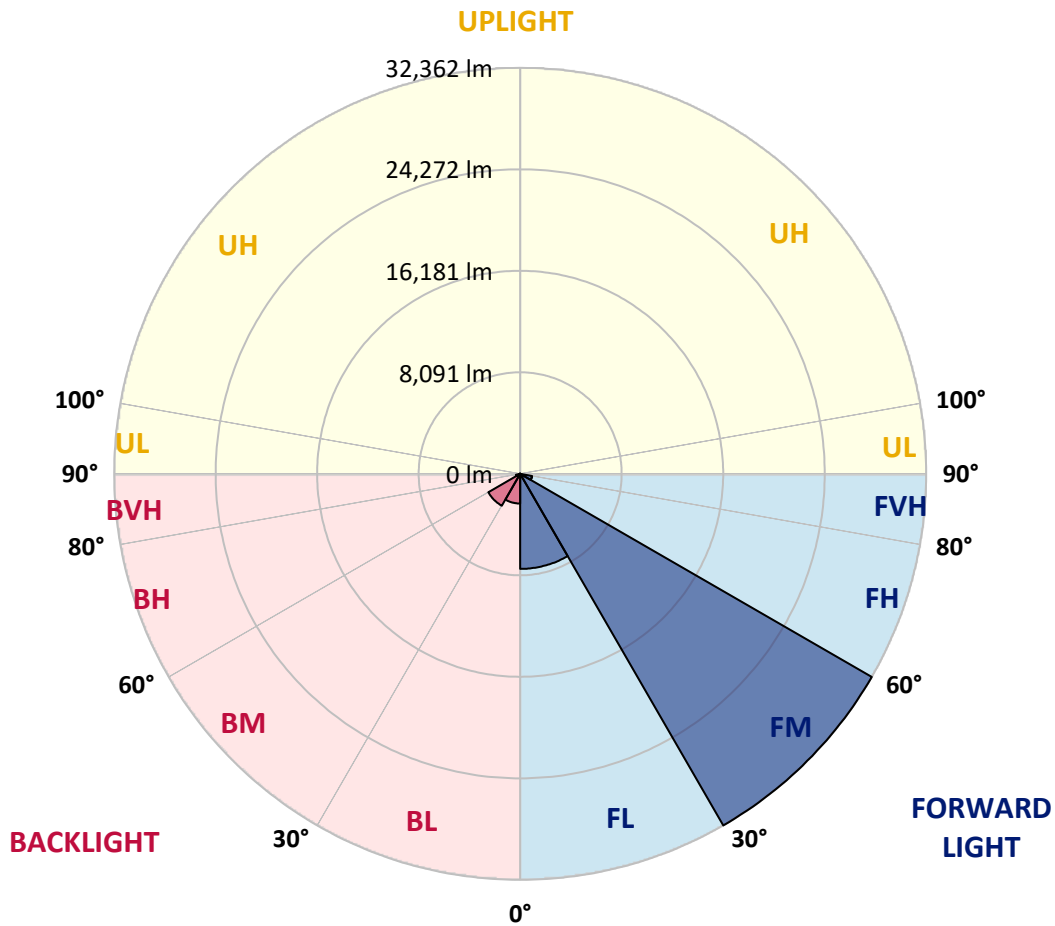
CATALOG NUMBER: GLAN-SA8D-750-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 7576.4 | 16.3 | | | |
| FM (30°-60°) | 32362.1 | 69.4 | | | |
| FH (60°-80°) | 963.4 | 2.1 | | | G1/1800 |
| FVH (80°-90°) | 23.3 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2370.1 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2935.6 | 6.3 | B3/5000 | | |
| BH (60°-80°) | 342.4 | 0.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 25.7 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13457.0 | 13457.0 | 13457.0 | 13457.0 | 13457.0 | 13457.0 | 13457.0 | 13457.0 | 13457.0 | 13457.0 | 13457.0 |
| 2.5° | 16310.1 | 15936.5 | 15970.4 | 15725.9 | 15583.2 | 15352.3 | 15039.8 | 14978.7 | 14639.0 | 14177.1 | 13708.4 |
| 5° | 17777.4 | 17689.1 | 17804.6 | 17451.3 | 17464.9 | 17084.5 | 16350.9 | 16364.4 | 15583.2 | 14829.2 | 14102.4 |
| 7.5° | 17872.5 | 17668.7 | 17784.2 | 18096.7 | 18280.1 | 18212.1 | 17797.8 | 17437.7 | 16697.3 | 15590.0 | 14530.3 |
| 10° | 16004.4 | 16391.6 | 16513.9 | 17030.2 | 17763.8 | 18538.2 | 18490.7 | 18511.0 | 17892.9 | 16446.0 | 14897.1 |
| 12.5° | 14883.6 | 14625.4 | 15039.8 | 15352.3 | 16459.5 | 17960.8 | 18646.9 | 18796.3 | 18843.9 | 17274.7 | 15264.0 |
| 15° | 14374.1 | 14374.1 | 14442.0 | 14530.3 | 15331.9 | 16717.7 | 18117.0 | 18551.8 | 19577.5 | 18361.6 | 15841.4 |
| 17.5° | 14693.4 | 14679.8 | 14774.9 | 14591.5 | 14890.3 | 15956.9 | 17627.9 | 18123.8 | 20399.5 | 19428.1 | 16296.5 |
| 20° | 15664.8 | 15712.3 | 15651.2 | 15121.3 | 15141.7 | 15943.3 | 17084.5 | 17865.7 | 20956.5 | 20352.0 | 16901.1 |
| 22.5° | 17016.6 | 17043.7 | 16697.3 | 16119.9 | 15950.1 | 16344.1 | 17397.0 | 17994.8 | 21404.9 | 21459.2 | 17084.5 |
| 25° | 18579.0 | 18470.3 | 18402.4 | 17587.2 | 17070.9 | 17410.6 | 18103.5 | 18449.9 | 21683.4 | 22410.2 | 17607.6 |
| 27.5° | 20746.0 | 20528.6 | 20114.2 | 19387.3 | 19006.9 | 18524.6 | 19020.5 | 19591.1 | 22478.2 | 23741.7 | 18178.2 |
| 30° | 23945.5 | 23755.3 | 22946.9 | 22009.5 | 21010.9 | 20535.4 | 20691.6 | 21004.1 | 23911.5 | 25283.7 | 18932.2 |
| 32.5° | 28761.7 | 28361.0 | 27192.5 | 25406.0 | 24047.4 | 22736.3 | 22695.6 | 23028.4 | 25195.4 | 27416.7 | 19828.9 |
| 35° | 34067.1 | 33944.8 | 32226.2 | 30385.3 | 27756.4 | 25732.0 | 25766.0 | 25942.6 | 27654.5 | 30215.5 | 21004.1 |
| 37.5° | 37592.7 | 38265.2 | 37171.5 | 35194.8 | 32987.0 | 30093.2 | 29359.5 | 29420.7 | 31030.6 | 33530.5 | 23123.5 |
| 40° | 40316.7 | 39746.1 | 39875.2 | 39413.2 | 37905.2 | 35935.2 | 34311.7 | 33992.4 | 34936.6 | 37198.7 | 25229.4 |
| 42.5° | 39127.9 | 39155.1 | 39949.9 | 41043.6 | 41417.2 | 41274.5 | 39617.0 | 39012.4 | 38278.8 | 40201.2 | 27233.3 |
| 45° | 35772.2 | 36471.8 | 37504.4 | 40398.2 | 42938.8 | 45323.2 | 44997.1 | 43991.7 | 40588.4 | 42578.8 | 28388.1 |
| 47.5° | 30419.2 | 30392.1 | 32083.5 | 35846.9 | 41491.9 | 47075.8 | 48556.7 | 47850.2 | 42225.6 | 42313.9 | 28150.4 |
| 48° | 28442.5 | 28931.6 | 30677.4 | 35106.4 | 40574.8 | 46817.6 | 48875.9 | 47986.1 | 41947.0 | 41960.6 | 27946.6 |
| 50° | 21024.5 | 20936.2 | 23109.9 | 28544.4 | 36240.9 | 43991.7 | 47530.9 | 48223.8 | 41940.2 | 40174.1 | 26520.0 |
| 52.5° | 11106.6 | 11487.0 | 13069.8 | 17947.2 | 25623.4 | 36003.1 | 41926.7 | 43006.8 | 40459.4 | 37253.0 | 24468.5 |
| 55° | 4721.2 | 4266.0 | 5482.0 | 8104.1 | 14414.8 | 24054.2 | 30758.9 | 33163.6 | 34209.8 | 32966.6 | 21404.9 |
| 57.5° | 1684.7 | 1840.9 | 2119.4 | 3050.1 | 6059.4 | 13164.9 | 18341.2 | 20209.3 | 23700.9 | 24190.0 | 14584.7 |
| 60° | 1080.1 | 1100.5 | 1188.8 | 1399.4 | 2275.7 | 5074.4 | 8701.9 | 10189.6 | 11772.3 | 12152.8 | 6806.6 |
| 62.5° | 835.5 | 842.3 | 883.1 | 917.1 | 1080.1 | 1970.0 | 3267.5 | 3872.0 | 4021.5 | 3457.7 | 1786.6 |
| 65° | 699.7 | 706.5 | 720.1 | 720.1 | 767.6 | 923.9 | 1141.2 | 1256.7 | 1222.7 | 1209.2 | 1012.2 |
| 67.5° | 536.7 | 550.2 | 577.4 | 577.4 | 604.6 | 563.8 | 631.8 | 672.5 | 760.8 | 923.9 | 862.7 |
| 70° | 421.2 | 428.0 | 448.3 | 461.9 | 461.9 | 407.6 | 455.1 | 495.9 | 557.0 | 686.1 | 679.3 |
| 72.5° | 326.1 | 339.7 | 353.2 | 353.2 | 332.9 | 278.5 | 326.1 | 360.0 | 400.8 | 475.5 | 461.9 |
| 75° | 251.3 | 251.3 | 258.1 | 210.6 | 163.0 | 142.7 | 197.0 | 237.8 | 298.9 | 312.5 | 258.1 |
| 77.5° | 67.9 | 74.7 | 67.9 | 61.1 | 67.9 | 101.9 | 129.1 | 149.4 | 190.2 | 190.2 | 169.8 |
| 80° | 0.0 | 6.8 | 20.4 | 40.8 | 67.9 | 95.1 | 115.5 | 129.1 | 149.4 | 163.0 | 156.2 |
| 82.5° | 0.0 | 6.8 | 20.4 | 40.8 | 61.1 | 74.7 | 101.9 | 108.7 | 122.3 | 142.7 | 142.7 |
| 85° | 0.0 | 6.8 | 13.6 | 27.2 | 40.8 | 47.6 | 47.6 | 40.8 | 40.8 | 34.0 | 27.2 |
| 87.5° | 0.0 | 0.0 | 6.8 | 13.6 | 13.6 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 |
| 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-750-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13457.0 | 13457.0 | 13457.0 | 13457.0 | 13457.0 | 13457.0 | 13457.0 | 13457.0 | 13457.0 | 13457.0 | 13457.0 |
| 2.5° | 13524.9 | 13314.4 | 12995.1 | 12492.4 | 12010.1 | 11697.6 | 11398.7 | 11065.9 | 10882.5 | 10868.9 | 10767.0 |
| 5° | 13688.0 | 13212.5 | 12451.6 | 11588.9 | 10665.1 | 9870.3 | 9068.7 | 8545.6 | 8076.9 | 7818.8 | 7771.2 |
| 7.5° | 13776.3 | 13158.1 | 11928.6 | 10481.7 | 8905.7 | 7608.2 | 6711.5 | 6052.6 | 5794.5 | 5604.3 | 5597.5 |
| 10° | 13959.7 | 13063.0 | 11147.4 | 9014.4 | 7064.8 | 5753.7 | 5135.5 | 4836.6 | 4694.0 | 4639.6 | 4558.1 |
| 12.5° | 14095.6 | 12886.4 | 10345.8 | 7506.3 | 5583.9 | 4768.7 | 4497.0 | 4429.1 | 4435.9 | 4463.0 | 4429.1 |
| 15° | 14285.8 | 12730.2 | 9265.7 | 6161.3 | 4687.2 | 4293.2 | 4293.2 | 4306.8 | 4401.9 | 4415.5 | 4408.7 |
| 17.5° | 14272.2 | 12424.5 | 8151.7 | 5074.4 | 4143.8 | 4089.4 | 4109.8 | 4238.9 | 4300.0 | 4320.4 | 4272.8 |
| 20° | 14435.2 | 12139.2 | 7003.6 | 4334.0 | 3838.1 | 3919.6 | 4055.4 | 4089.4 | 4164.1 | 4177.7 | 4123.4 |
| 22.5° | 14387.7 | 11425.9 | 5937.1 | 3749.8 | 3607.1 | 3763.3 | 3899.2 | 3940.0 | 3919.6 | 3878.8 | 3872.0 |
| 25° | 14299.4 | 10814.5 | 4958.9 | 3362.6 | 3437.3 | 3607.1 | 3736.2 | 3661.4 | 3620.7 | 3627.5 | 3634.3 |
| 27.5° | 14143.1 | 10040.1 | 4150.5 | 3090.8 | 3206.3 | 3457.7 | 3450.9 | 3423.7 | 3464.5 | 3430.5 | 3464.5 |
| 30° | 14115.9 | 9265.7 | 3484.8 | 2846.3 | 3036.5 | 3219.9 | 3233.5 | 3281.0 | 3328.6 | 3267.5 | 3328.6 |
| 32.5° | 14156.7 | 8416.6 | 3009.3 | 2696.8 | 2934.6 | 2941.4 | 3090.8 | 3138.4 | 3104.4 | 2968.6 | 2982.1 |
| 35° | 14469.2 | 7764.4 | 2662.9 | 2615.3 | 2771.6 | 2778.4 | 2921.0 | 2859.9 | 2710.4 | 2628.9 | 2676.5 |
| 37.5° | 15128.1 | 7221.0 | 2499.8 | 2540.6 | 2554.2 | 2642.5 | 2649.3 | 2527.0 | 2540.6 | 2533.8 | 2561.0 |
| 40° | 15970.4 | 6806.6 | 2384.4 | 2472.7 | 2459.1 | 2520.2 | 2275.7 | 2343.6 | 2404.7 | 2425.1 | 2438.7 |
| 42.5° | 16547.9 | 6507.7 | 2309.6 | 2364.0 | 2336.8 | 2228.1 | 2092.3 | 2160.2 | 2207.7 | 2282.5 | 2296.0 |
| 45° | 16806.0 | 6270.0 | 2221.3 | 2173.8 | 2173.8 | 1976.8 | 1922.4 | 1936.0 | 2044.7 | 2126.2 | 2112.6 |
| 47.5° | 16384.8 | 6039.0 | 2065.1 | 1922.4 | 1970.0 | 1806.9 | 1745.8 | 1745.8 | 1861.3 | 1963.2 | 1942.8 |
| 48° | 16221.8 | 5943.9 | 2071.9 | 1868.1 | 1902.1 | 1779.8 | 1718.6 | 1705.1 | 1834.1 | 1929.2 | 1929.2 |
| 50° | 15413.4 | 5590.7 | 1895.3 | 1718.6 | 1650.7 | 1637.1 | 1596.4 | 1610.0 | 1691.5 | 1779.8 | 1779.8 |
| 52.5° | 13837.4 | 4829.9 | 1603.2 | 1474.1 | 1351.8 | 1433.3 | 1453.7 | 1426.5 | 1467.3 | 1548.8 | 1542.0 |
| 55° | 11548.2 | 3709.0 | 1283.9 | 1222.7 | 1127.6 | 1216.0 | 1256.7 | 1222.7 | 1182.0 | 1243.1 | 1243.1 |
| 57.5° | 7397.6 | 1997.2 | 1025.7 | 1039.3 | 944.2 | 1032.5 | 1066.5 | 985.0 | 910.3 | 957.8 | 951.0 |
| 60° | 3335.4 | 1195.6 | 842.3 | 822.0 | 760.8 | 862.7 | 917.1 | 822.0 | 720.1 | 754.0 | 788.0 |
| 62.5° | 1249.9 | 849.1 | 638.5 | 625.0 | 611.4 | 706.5 | 733.6 | 658.9 | 557.0 | 577.4 | 584.2 |
| 65° | 917.1 | 747.2 | 509.5 | 461.9 | 489.1 | 557.0 | 543.4 | 468.7 | 400.8 | 400.8 | 414.4 |
| 67.5° | 781.2 | 652.1 | 414.4 | 360.0 | 360.0 | 366.8 | 339.7 | 298.9 | 278.5 | 292.1 | 305.7 |
| 70° | 611.4 | 516.3 | 326.1 | 278.5 | 251.3 | 224.2 | 197.0 | 190.2 | 169.8 | 190.2 | 183.4 |
| 72.5° | 394.0 | 346.4 | 251.3 | 210.6 | 190.2 | 156.2 | 129.1 | 122.3 | 101.9 | 95.1 | 95.1 |
| 75° | 210.6 | 210.6 | 197.0 | 169.8 | 149.4 | 122.3 | 101.9 | 81.5 | 54.3 | 40.8 | 40.8 |
| 77.5° | 149.4 | 163.0 | 176.6 | 163.0 | 135.9 | 101.9 | 81.5 | 54.3 | 27.2 | 13.6 | 13.6 |
| 80° | 142.7 | 163.0 | 176.6 | 156.2 | 135.9 | 101.9 | 74.7 | 40.8 | 20.4 | 6.8 | 6.8 |
| 82.5° | 129.1 | 149.4 | 163.0 | 142.7 | 122.3 | 88.3 | 67.9 | 40.8 | 20.4 | 6.8 | 6.8 |
| 85° | 27.2 | 34.0 | 40.8 | 40.8 | 47.6 | 61.1 | 47.6 | 34.0 | 13.6 | 6.8 | 6.8 |
| 87.5° | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 13.6 | 13.6 | 6.8 | 6.8 | 6.8 |
| 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)