

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: P653435

Luminaire Tested: **GLAN-SA6D-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P653435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6D-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31913.4 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

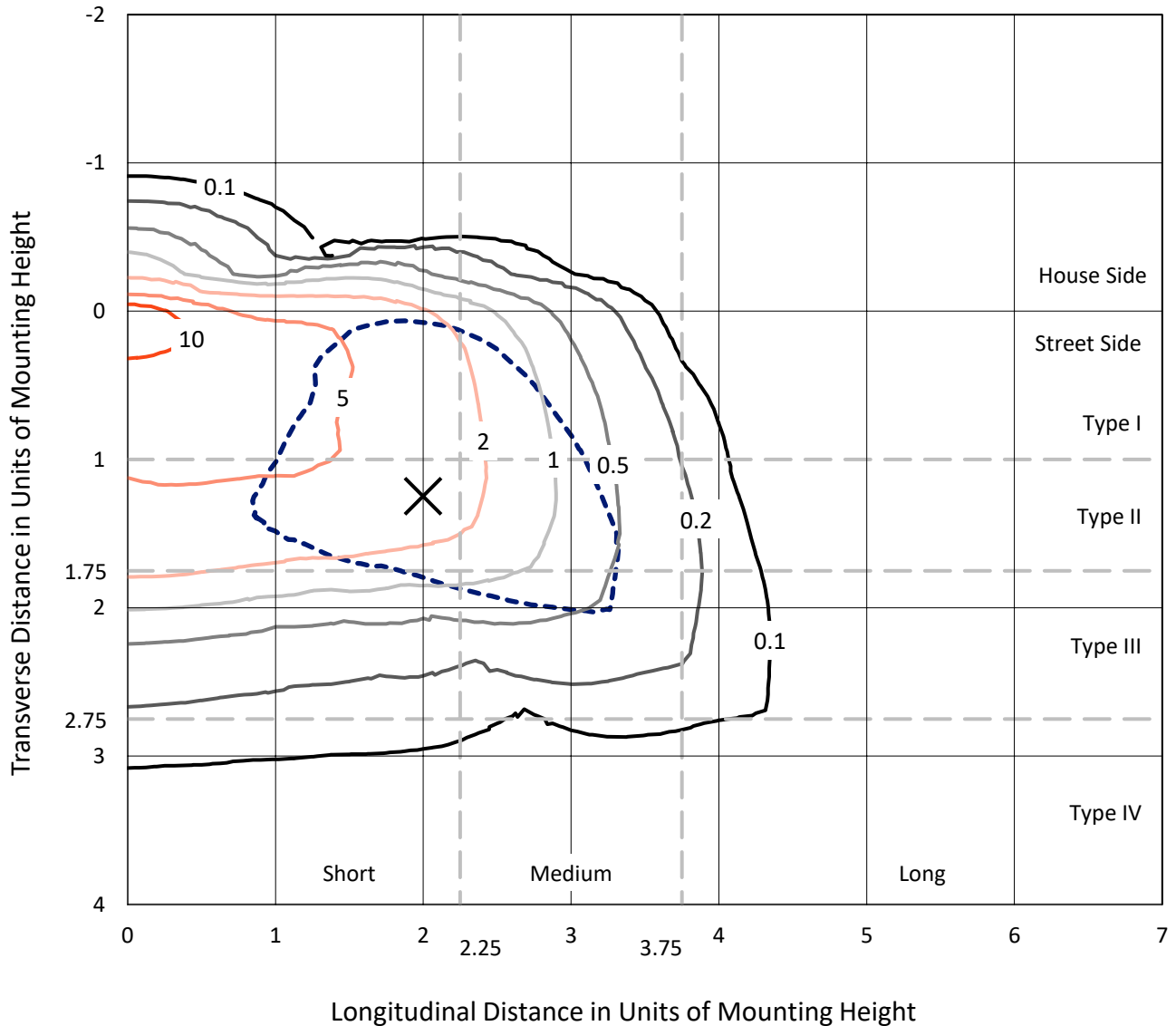
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

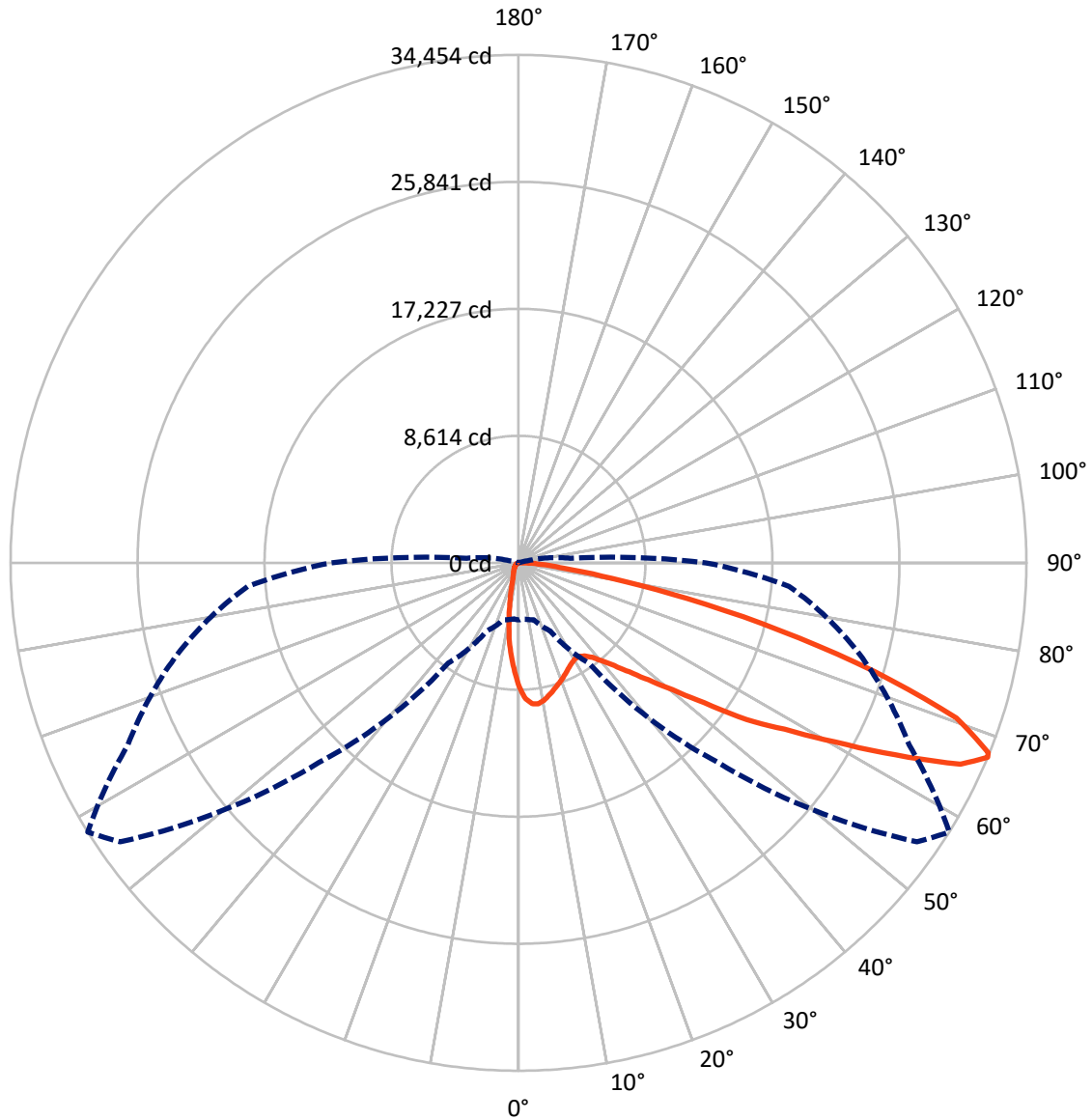
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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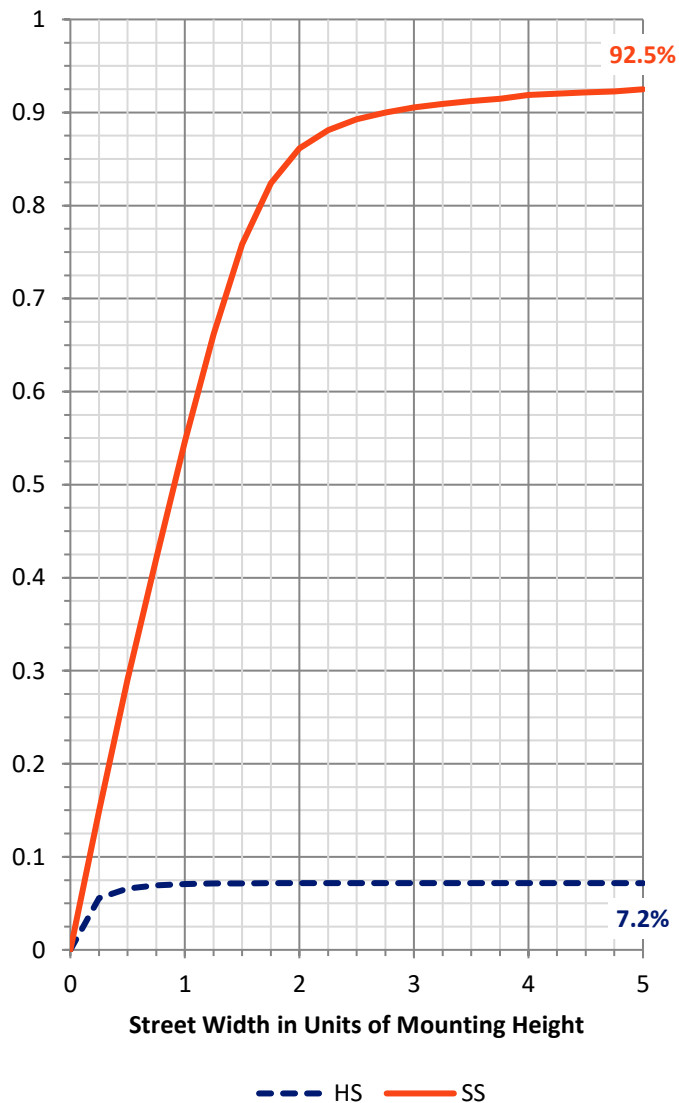
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2303.1 | 0.0 | 2303.1 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 29610.4 | 0.0 | 29610.4 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 31913.4 | 0.0 | 31913.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 686.5 | 2.2 |
| 10°-20° | 1482.7 | 4.6 |
| 20°-30° | 2009.1 | 6.3 |
| 30°-40° | 2786.6 | 8.7 |
| 40°-50° | 4444.2 | 13.9 |
| 50°-60° | 7682.3 | 24.1 |
| 60°-70° | 8775.5 | 27.5 |
| 70°-80° | 3658.6 | 11.5 |
| 80°-90° | 387.9 | 1.2 |
| 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° | 31913.4 | 100.0 |
| 0°-180° | 31913.4 | 100.0 |

Coefficient of Utilization

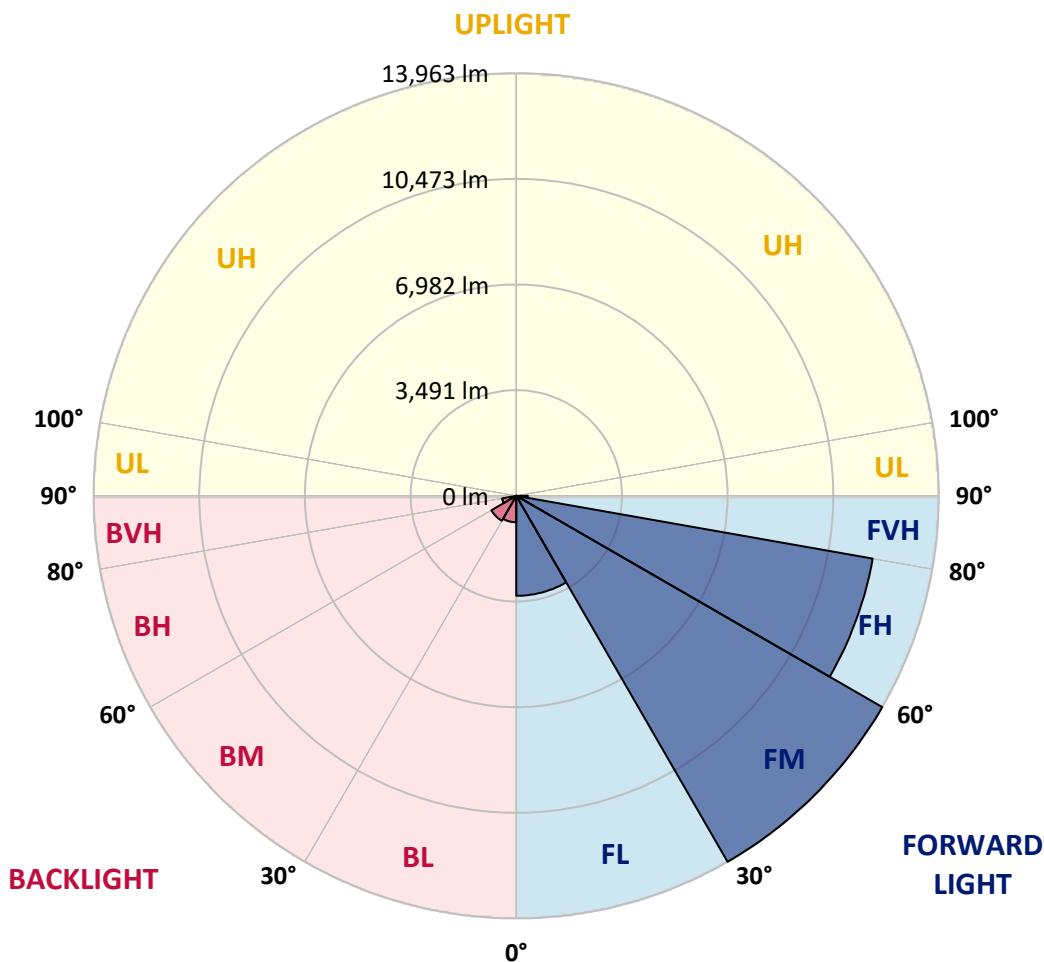


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3303.8 | 10.4 | | | |
| FM (30°-60°) | 13963.5 | 43.8 | | | |
| FH (60°-80°) | 11958.0 | 37.5 | | | G4/12000 |
| FVH (80°-90°) | 385.1 | 1.2 | | | G3/500 |
| BL (0°-30°) | 874.5 | 2.7 | B2/1000 | | |
| BM (30°-60°) | 949.6 | 3.0 | B1/1000 | | |
| BH (60°-80°) | 476.1 | 1.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8460.0 | 8460.0 | 8460.0 | 8460.0 | 8460.0 | 8460.0 | 8460.0 | 8460.0 | 8460.0 | 8460.0 | 8460.0 |
| 2.5° | 9818.4 | 9833.3 | 9777.9 | 9733.1 | 9617.9 | 9494.2 | 9330.1 | 9242.6 | 9093.3 | 8835.3 | 8549.5 |
| 5° | 10048.8 | 10067.9 | 10059.4 | 10048.8 | 10003.9 | 9884.5 | 9675.5 | 9598.8 | 9379.1 | 8959.0 | 8442.9 |
| 7.5° | 9536.9 | 9607.2 | 9615.8 | 9699.0 | 9777.9 | 9788.6 | 9709.7 | 9652.1 | 9449.5 | 8956.8 | 8253.1 |
| 10° | 8858.8 | 8905.7 | 8973.9 | 9069.8 | 9259.7 | 9417.5 | 9494.2 | 9485.7 | 9368.4 | 8890.7 | 8031.3 |
| 12.5° | 8174.2 | 8199.8 | 8304.3 | 8468.4 | 8700.9 | 8969.7 | 9174.4 | 9214.9 | 9217.0 | 8811.8 | 7845.8 |
| 15° | 7585.6 | 7575.0 | 7656.0 | 7845.8 | 8172.1 | 8509.0 | 8875.8 | 8939.7 | 9042.2 | 8735.0 | 7673.0 |
| 17.5° | 7082.3 | 7137.7 | 7150.5 | 7359.5 | 7660.2 | 8097.4 | 8564.5 | 8677.4 | 8882.2 | 8668.9 | 7530.1 |
| 20° | 6771.0 | 6800.8 | 6828.5 | 6945.8 | 7216.6 | 7677.3 | 8272.3 | 8428.0 | 8732.9 | 8609.2 | 7370.2 |
| 22.5° | 6679.2 | 6698.5 | 6675.0 | 6711.3 | 6903.2 | 7312.7 | 7954.5 | 8161.4 | 8590.1 | 8553.8 | 7240.1 |
| 25° | 6749.6 | 6768.8 | 6713.4 | 6670.7 | 6736.8 | 7016.2 | 7647.5 | 7899.1 | 8474.9 | 8543.1 | 7142.0 |
| 27.5° | 6920.3 | 6956.5 | 6879.7 | 6802.9 | 6764.6 | 6856.3 | 7406.4 | 7698.6 | 8396.0 | 8594.3 | 7097.2 |
| 30° | 7186.8 | 7208.1 | 7150.5 | 7056.7 | 6969.3 | 6877.6 | 7280.6 | 7560.0 | 8374.7 | 8713.8 | 7093.0 |
| 32.5° | 7476.8 | 7521.7 | 7489.6 | 7427.8 | 7314.8 | 7097.2 | 7316.9 | 7564.3 | 8425.8 | 8886.5 | 7146.3 |
| 35° | 7835.1 | 7886.3 | 7916.2 | 7903.4 | 7758.3 | 7487.5 | 7547.2 | 7756.2 | 8562.3 | 9204.2 | 7291.3 |
| 37.5° | 8187.0 | 8231.8 | 8400.2 | 8457.9 | 8329.9 | 8073.9 | 7995.1 | 8133.6 | 8863.0 | 9620.1 | 7553.6 |
| 40° | 8590.1 | 8649.8 | 8886.5 | 9106.1 | 9044.3 | 8775.6 | 8630.6 | 8745.7 | 9323.7 | 10247.1 | 8050.5 |
| 42.5° | 8976.1 | 9082.6 | 9443.1 | 9831.2 | 9888.8 | 9588.1 | 9492.1 | 9530.5 | 10006.0 | 11149.1 | 8743.6 |
| 45° | 9524.2 | 9624.3 | 10089.2 | 10616.0 | 10886.8 | 10652.3 | 10554.1 | 10547.7 | 10942.3 | 12418.0 | 9867.5 |
| 47.5° | 10315.3 | 10404.9 | 10952.9 | 11473.3 | 11955.2 | 11987.3 | 11801.8 | 11865.7 | 12119.5 | 13902.3 | 11245.1 |
| 50° | 11285.6 | 11496.7 | 11857.2 | 12398.9 | 13042.9 | 13563.2 | 13620.8 | 13535.5 | 13753.0 | 15621.2 | 12900.0 |
| 52.5° | 12695.2 | 12776.3 | 13106.8 | 13552.5 | 14307.5 | 15190.4 | 15875.0 | 15757.6 | 15689.4 | 17259.0 | 14571.9 |
| 55° | 13746.6 | 13855.4 | 14369.3 | 14981.4 | 16088.2 | 17252.6 | 18736.9 | 18777.4 | 17915.8 | 18832.8 | 16207.7 |
| 57.5° | 13428.8 | 13595.2 | 14373.6 | 15604.1 | 18037.3 | 20165.7 | 21270.4 | 21298.1 | 19975.9 | 20361.9 | 18054.4 |
| 60° | 11797.5 | 11876.3 | 12991.7 | 14633.8 | 18203.7 | 23321.9 | 24863.7 | 24639.9 | 22072.2 | 22072.2 | 19685.9 |
| 62.5° | 8366.1 | 8489.8 | 9394.1 | 11810.2 | 16440.1 | 24418.1 | 29167.3 | 28704.6 | 24959.8 | 23708.0 | 20658.3 |
| 65° | 5346.4 | 5227.0 | 5826.2 | 7455.5 | 12247.4 | 22799.4 | 32914.3 | 32942.0 | 27676.6 | 24362.6 | 20127.3 |
| 67° | 3872.8 | 3825.9 | 3998.6 | 5096.9 | 8304.3 | 19165.5 | 32993.2 | 34454.0 | 29237.7 | 23948.9 | 18429.8 |
| 67.5° | 3542.2 | 3578.5 | 3704.3 | 4597.8 | 7545.1 | 17440.2 | 32634.9 | 34364.4 | 29589.6 | 23699.4 | 17815.6 |
| 70° | 2684.9 | 2623.1 | 2759.6 | 3252.1 | 4523.2 | 11002.0 | 28073.3 | 31517.5 | 29152.4 | 21223.5 | 14235.0 |
| 72.5° | 1974.8 | 1968.4 | 2158.2 | 2659.3 | 3482.5 | 5860.3 | 21074.2 | 25271.1 | 23816.7 | 16160.7 | 8963.2 |
| 75° | 1332.9 | 1392.6 | 1695.4 | 2222.2 | 3156.2 | 3800.2 | 14367.2 | 18333.8 | 16533.9 | 9176.5 | 3663.8 |
| 77.5° | 759.2 | 763.5 | 1091.9 | 1784.9 | 2834.2 | 3058.1 | 8513.3 | 11680.1 | 8752.1 | 3051.7 | 1087.6 |
| 80° | 328.4 | 360.4 | 541.7 | 1296.6 | 2350.1 | 2708.4 | 4881.5 | 6419.1 | 3540.1 | 646.1 | 351.9 |
| 82.5° | 121.5 | 142.9 | 238.8 | 797.6 | 1714.6 | 2230.7 | 2949.4 | 3064.5 | 1200.6 | 228.2 | 219.7 |
| 85° | 0.0 | 4.3 | 87.5 | 373.2 | 893.6 | 995.9 | 1970.5 | 1817.0 | 531.0 | 108.7 | 142.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 38.3 | 117.3 | 371.0 | 612.1 | 682.4 | 127.9 | 38.3 | 34.1 |
| 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-SA6D-840-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8460.0 | 8460.0 | 8460.0 | 8460.0 | 8460.0 | 8460.0 | 8460.0 | 8460.0 | 8460.0 | 8460.0 | 8460.0 |
| 2.5° | 8396.0 | 8257.4 | 7909.8 | 7562.1 | 7304.1 | 7088.7 | 6764.6 | 6587.6 | 6493.7 | 6355.1 | 6363.6 |
| 5° | 8184.9 | 7903.4 | 7291.3 | 6657.9 | 6146.1 | 5647.1 | 5050.0 | 4809.0 | 4606.4 | 4491.2 | 4414.4 |
| 7.5° | 7871.3 | 7455.5 | 6549.2 | 5704.7 | 4917.7 | 4045.5 | 3390.8 | 2953.6 | 2659.3 | 2550.6 | 2446.0 |
| 10° | 7528.0 | 6975.7 | 5796.3 | 4625.6 | 3533.7 | 2633.8 | 2079.3 | 1678.4 | 1535.5 | 1403.2 | 1416.1 |
| 12.5° | 7210.2 | 6538.5 | 5105.4 | 3650.9 | 2475.9 | 1674.1 | 1305.1 | 1140.9 | 1094.1 | 1079.1 | 1079.1 |
| 15° | 6950.1 | 6120.5 | 4363.3 | 2744.6 | 1697.6 | 1202.8 | 1044.9 | 1000.2 | 983.1 | 978.8 | 978.8 |
| 17.5° | 6672.8 | 5723.8 | 3693.7 | 2028.1 | 1234.8 | 1006.6 | 953.3 | 923.4 | 917.0 | 912.7 | 912.7 |
| 20° | 6425.5 | 5325.0 | 3058.1 | 1509.8 | 998.0 | 906.3 | 872.2 | 853.0 | 846.6 | 842.3 | 844.5 |
| 22.5° | 6190.9 | 4971.1 | 2461.0 | 1140.9 | 878.6 | 825.3 | 791.2 | 772.0 | 759.2 | 748.6 | 750.7 |
| 25° | 5981.9 | 4629.9 | 1979.0 | 934.1 | 791.2 | 744.3 | 710.1 | 682.4 | 654.7 | 641.9 | 639.7 |
| 27.5° | 5834.8 | 4331.2 | 1541.9 | 799.7 | 712.2 | 661.1 | 618.5 | 584.3 | 548.1 | 528.9 | 524.6 |
| 30° | 5713.2 | 4028.5 | 1219.9 | 705.9 | 633.4 | 584.3 | 531.0 | 482.0 | 443.5 | 424.4 | 415.9 |
| 32.5° | 5634.3 | 3740.5 | 961.8 | 629.2 | 567.3 | 507.5 | 447.8 | 398.8 | 356.2 | 337.0 | 332.7 |
| 35° | 5621.5 | 3499.6 | 786.9 | 565.2 | 507.5 | 443.5 | 381.7 | 328.4 | 292.2 | 273.0 | 268.7 |
| 37.5° | 5713.2 | 3314.0 | 659.0 | 513.9 | 458.5 | 388.1 | 319.9 | 270.8 | 238.8 | 224.0 | 221.8 |
| 40° | 5958.4 | 3196.7 | 571.5 | 471.3 | 413.7 | 337.0 | 273.0 | 230.3 | 198.3 | 183.4 | 183.4 |
| 42.5° | 6425.5 | 3201.0 | 513.9 | 430.8 | 368.9 | 287.9 | 232.5 | 191.9 | 164.2 | 151.4 | 147.2 |
| 45° | 7154.8 | 3346.0 | 464.9 | 390.2 | 326.3 | 249.5 | 198.3 | 157.8 | 130.1 | 119.4 | 119.4 |
| 47.5° | 8131.5 | 3634.0 | 422.3 | 349.8 | 287.9 | 213.3 | 168.5 | 127.9 | 104.5 | 93.9 | 93.9 |
| 50° | 9408.9 | 4096.7 | 386.0 | 315.6 | 255.9 | 183.4 | 136.5 | 104.5 | 81.1 | 72.5 | 70.4 |
| 52.5° | 10743.9 | 4668.2 | 343.4 | 285.8 | 219.7 | 155.7 | 110.9 | 81.1 | 61.8 | 55.4 | 53.3 |
| 55° | 12217.5 | 5227.0 | 302.8 | 255.9 | 179.1 | 130.1 | 87.5 | 64.0 | 44.8 | 38.3 | 38.3 |
| 57.5° | 13704.0 | 5775.1 | 253.8 | 213.3 | 140.8 | 96.0 | 68.2 | 46.9 | 29.9 | 23.5 | 23.5 |
| 60° | 14962.2 | 5952.0 | 215.4 | 172.7 | 106.6 | 68.2 | 49.0 | 29.9 | 17.1 | 10.7 | 10.7 |
| 62.5° | 15135.0 | 5354.9 | 181.2 | 132.2 | 76.8 | 46.9 | 25.6 | 17.1 | 6.4 | 4.3 | 4.3 |
| 65° | 14196.6 | 4350.5 | 151.4 | 100.2 | 51.2 | 23.5 | 10.7 | 6.4 | 2.1 | 0.0 | 0.0 |
| 67° | 12720.9 | 3527.3 | 123.7 | 74.7 | 36.2 | 15.0 | 6.4 | 2.1 | 0.0 | 0.0 | 0.0 |
| 67.5° | 12343.4 | 3363.1 | 119.4 | 70.4 | 32.0 | 12.8 | 4.3 | 2.1 | 0.0 | 0.0 | 0.0 |
| 70° | 9686.2 | 2518.5 | 85.3 | 42.6 | 19.2 | 8.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 6020.3 | 1424.6 | 61.8 | 25.6 | 12.8 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 2275.5 | 499.0 | 42.6 | 17.1 | 8.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 708.0 | 189.8 | 25.6 | 12.8 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 238.8 | 72.5 | 17.1 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 147.2 | 29.9 | 10.7 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 91.7 | 12.8 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 17.1 | 4.3 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)