

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: P530623

Luminaire Tested: **GLAN-SA5D-760-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5D-760-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22612 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

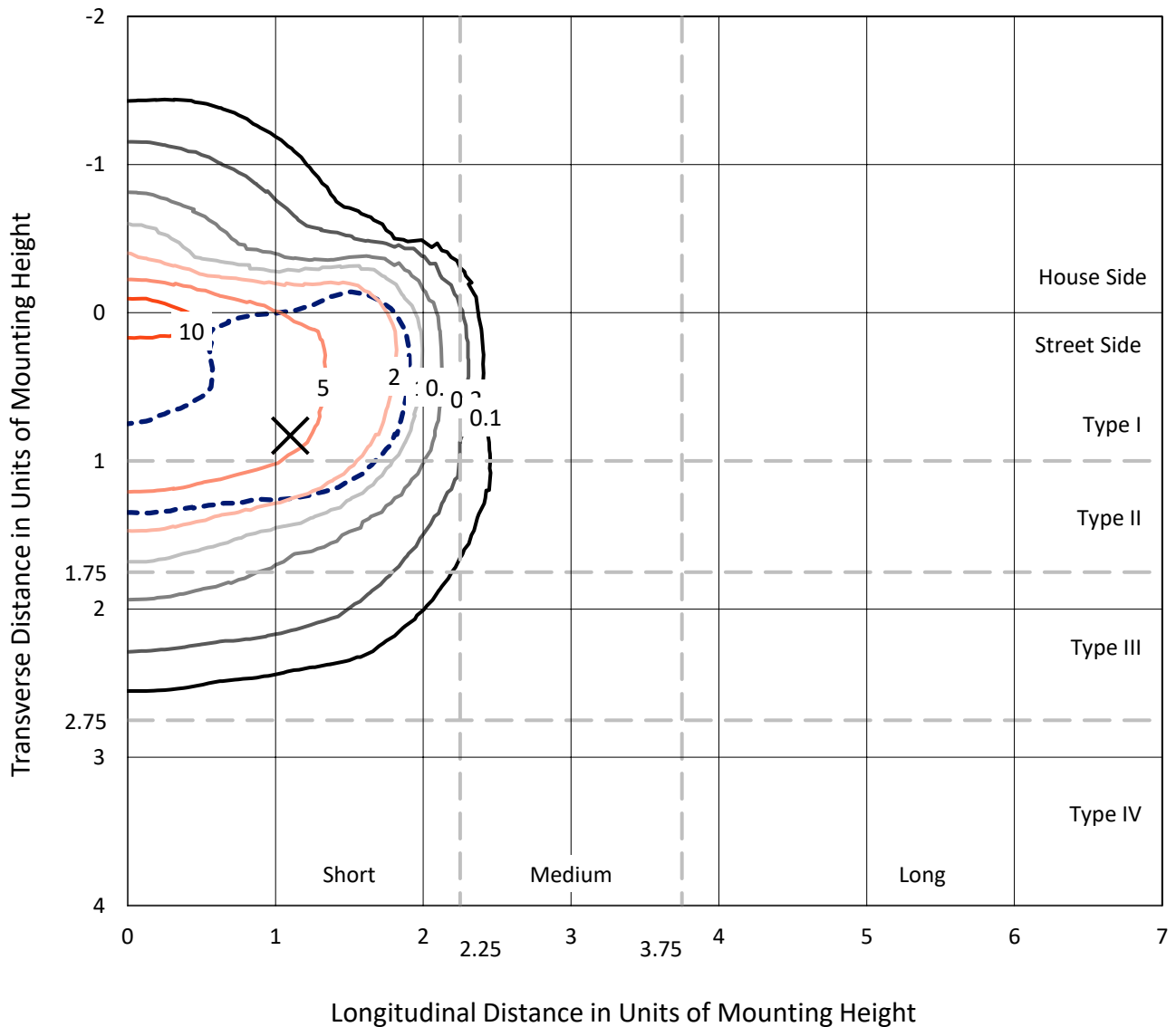
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

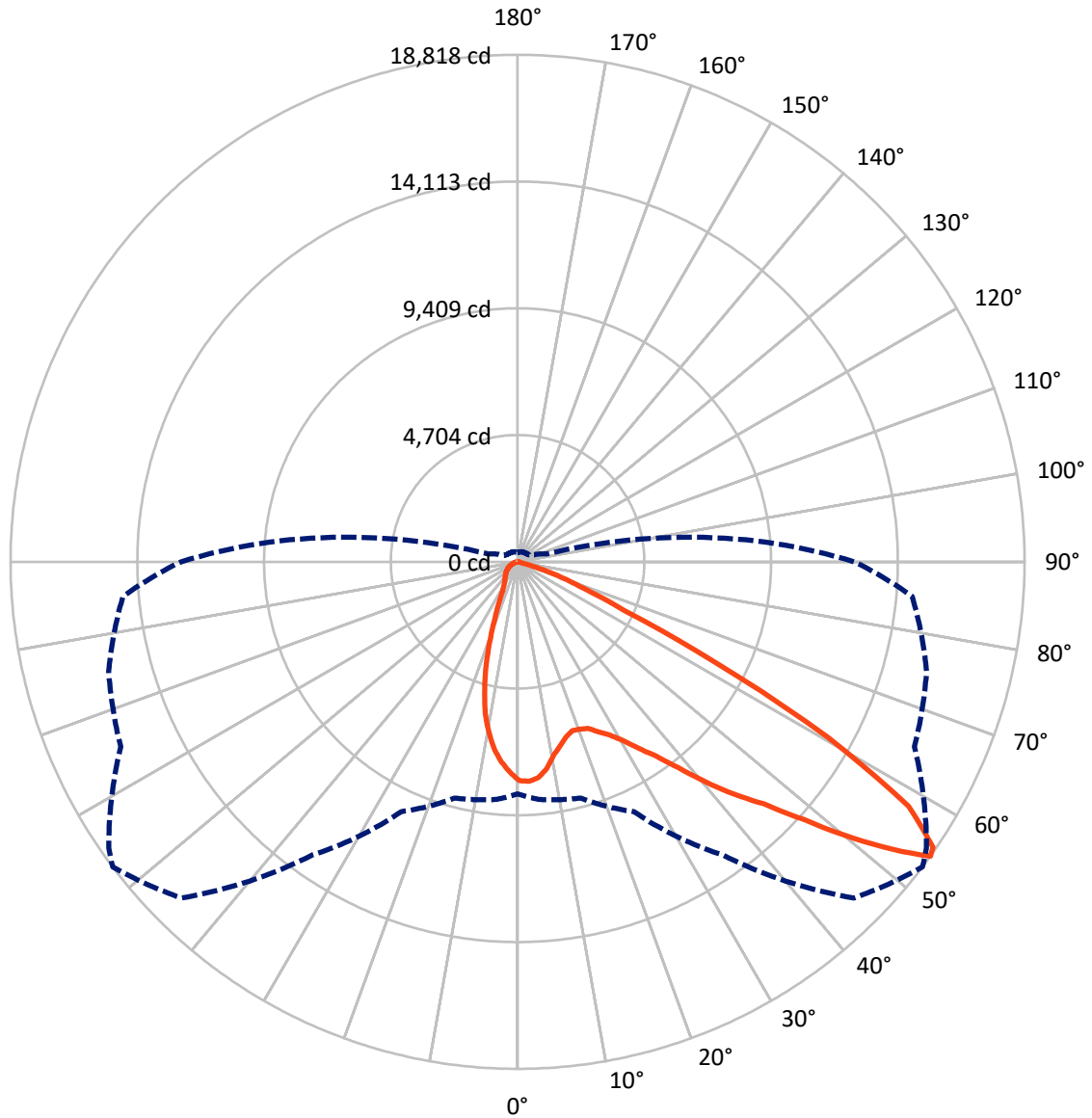
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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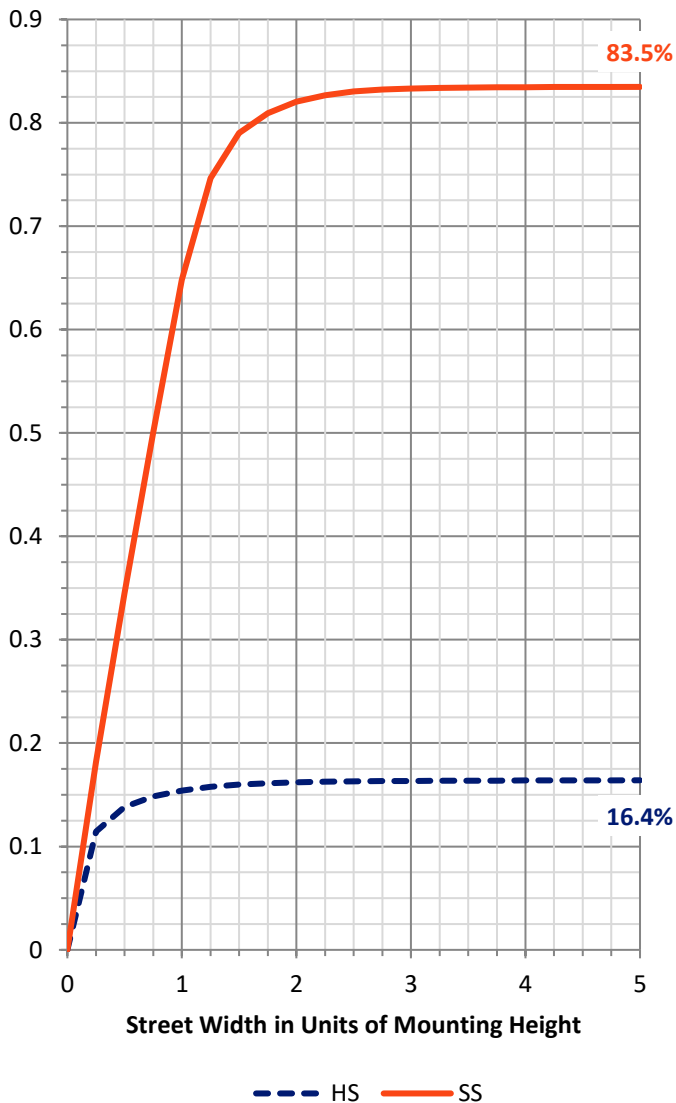
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3741.2 | 0.0 | 3741.2 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 18870.8 | 0.0 | 18870.8 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 22612.0 | 0.0 | 22612.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 696.8 | 3.1 |
| 10°-20° | 1597.6 | 7.1 |
| 20°-30° | 2270.6 | 10.0 |
| 30°-40° | 3504.1 | 15.5 |
| 40°-50° | 5494.1 | 24.3 |
| 50°-60° | 6382.1 | 28.2 |
| 60°-70° | 2411.6 | 10.7 |
| 70°-80° | 229.3 | 1.0 |
| 80°-90° | 25.8 | 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° | 22612.0 | 100.0 |
| 0°-180° | 22612.0 | 100.0 |

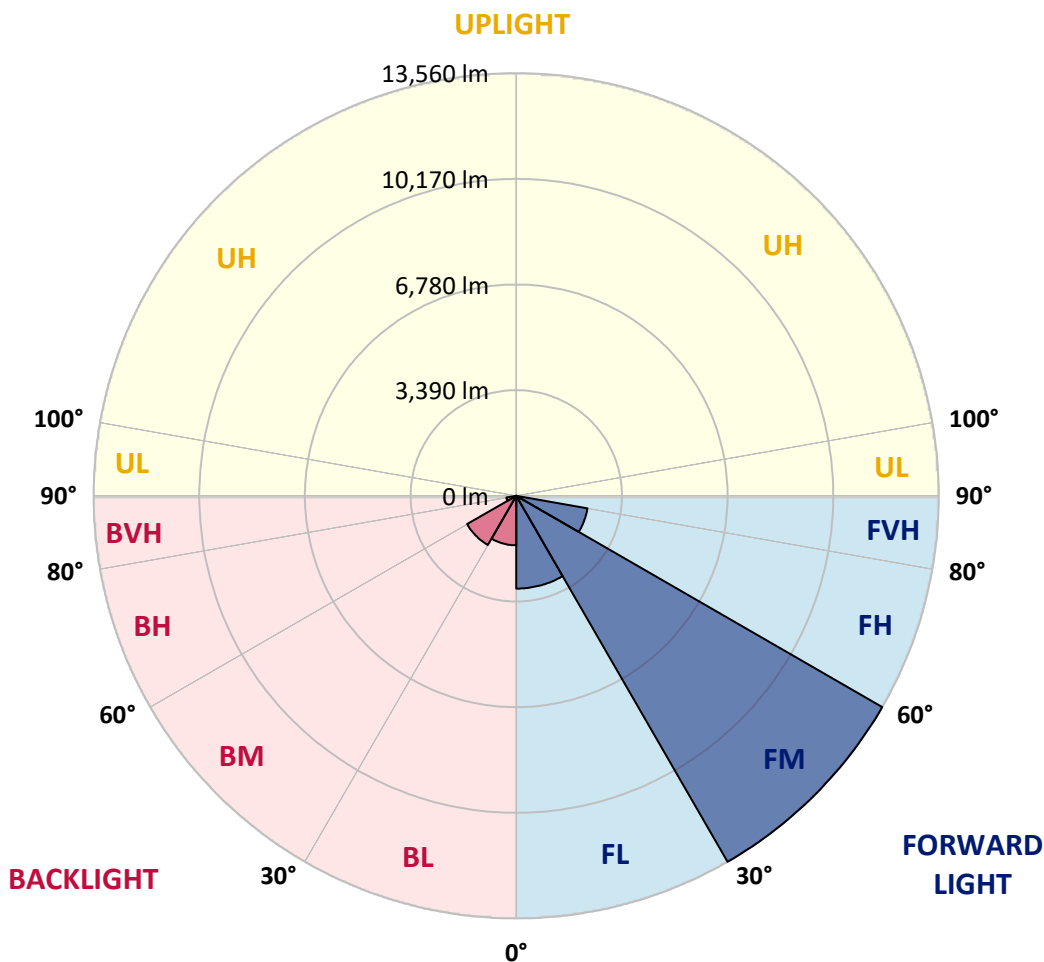


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2977.4 | 13.2 | | | |
| FM (30°-60°) | 13559.7 | 60.0 | | | |
| FH (60°-80°) | 2320.3 | 10.3 | | | G2/5000 |
| FVH (80°-90°) | 13.3 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1587.6 | 7.0 | B3/2500 | | |
| BM (30°-60°) | 1820.6 | 8.1 | B2/2500 | | |
| BH (60°-80°) | 320.5 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 12.5 | 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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8121.8 | 8121.8 | 8121.8 | 8121.8 | 8121.8 | 8121.8 | 8121.8 | 8121.8 | 8121.8 | 8121.8 | 8121.8 |
| 2.5° | 8079.7 | 8008.1 | 8079.7 | 8088.1 | 8138.7 | 8185.0 | 8155.5 | 8223.0 | 8185.0 | 8142.9 | 8130.3 |
| 5° | 7426.8 | 7523.7 | 7527.9 | 7679.5 | 7645.8 | 7923.9 | 8046.0 | 8012.3 | 8218.7 | 8206.1 | 8176.6 |
| 7.5° | 6841.2 | 6803.3 | 6853.9 | 7030.8 | 7254.1 | 7574.2 | 7751.1 | 7746.9 | 8041.8 | 8252.4 | 8231.4 |
| 10° | 6297.8 | 6293.6 | 6398.9 | 6537.9 | 6727.5 | 7064.5 | 7308.8 | 7431.0 | 7890.2 | 8210.3 | 8256.7 |
| 12.5° | 5931.3 | 5914.5 | 6028.2 | 6141.9 | 6441.0 | 6702.2 | 7013.9 | 7072.9 | 7599.5 | 8062.9 | 8138.7 |
| 15° | 5691.2 | 5729.1 | 5737.5 | 5956.6 | 6146.2 | 6491.6 | 6735.9 | 6858.1 | 7464.7 | 7944.9 | 8235.6 |
| 17.5° | 5649.1 | 5699.6 | 5703.8 | 5885.0 | 6087.2 | 6377.8 | 6592.7 | 6757.0 | 7350.9 | 8003.9 | 8239.8 |
| 20° | 5733.3 | 5703.8 | 5729.1 | 5842.8 | 6040.8 | 6318.9 | 6630.6 | 6685.4 | 7313.0 | 8033.4 | 8286.1 |
| 22.5° | 5973.4 | 5965.0 | 5901.8 | 5994.5 | 6133.5 | 6424.2 | 6719.1 | 6803.3 | 7422.6 | 8185.0 | 8324.1 |
| 25° | 6238.8 | 6285.2 | 6226.2 | 6213.6 | 6310.4 | 6596.9 | 6988.7 | 7098.2 | 7789.1 | 8458.9 | 8442.0 |
| 27.5° | 6735.9 | 6689.6 | 6689.6 | 6630.6 | 6605.3 | 6744.3 | 7279.3 | 7460.5 | 8197.7 | 8812.7 | 8576.8 |
| 30° | 7211.9 | 7262.5 | 7224.6 | 7245.6 | 7077.1 | 7064.5 | 7692.2 | 7915.4 | 8922.2 | 9351.9 | 8863.3 |
| 32.5° | 7966.0 | 7898.6 | 7961.8 | 7907.0 | 7683.7 | 7456.3 | 8252.4 | 8484.1 | 9798.5 | 9971.2 | 9292.9 |
| 35° | 8593.7 | 8564.2 | 8833.8 | 8825.3 | 8463.1 | 8239.8 | 8846.4 | 9191.8 | 10409.3 | 10712.6 | 9798.5 |
| 37.5° | 9486.7 | 9432.0 | 9739.5 | 9886.9 | 9562.6 | 9229.8 | 9697.4 | 10097.5 | 10978.0 | 11306.6 | 10316.6 |
| 40° | 10405.1 | 10544.1 | 10956.9 | 11201.2 | 10855.8 | 10413.5 | 10737.9 | 10860.0 | 11357.1 | 11694.1 | 10670.5 |
| 42.5° | 11567.7 | 11769.9 | 12191.2 | 12401.8 | 12372.3 | 11892.1 | 11795.2 | 11791.0 | 11630.9 | 11584.6 | 10931.6 |
| 45° | 12684.1 | 12608.2 | 13257.0 | 13716.2 | 14086.9 | 13947.8 | 12814.7 | 12688.3 | 12064.8 | 11748.9 | 10999.0 |
| 47.5° | 13172.7 | 13147.5 | 13589.8 | 14407.0 | 15670.8 | 15843.5 | 14297.5 | 13808.8 | 12797.8 | 12439.7 | 11365.5 |
| 50° | 12540.8 | 12671.4 | 13109.5 | 14015.2 | 15953.0 | 17271.6 | 16117.3 | 15460.2 | 13653.0 | 13282.3 | 12233.3 |
| 52.5° | 10476.7 | 10565.1 | 10982.2 | 12132.2 | 14992.6 | 18114.1 | 17861.3 | 17482.2 | 15224.3 | 14609.2 | 13745.6 |
| 54° | 8614.7 | 8850.6 | 9078.1 | 10232.4 | 13282.3 | 17646.5 | 18817.6 | 18526.9 | 16247.9 | 15712.9 | 14697.7 |
| 55° | 7502.6 | 7641.6 | 7805.9 | 8955.9 | 12098.5 | 16854.5 | 18708.1 | 18733.3 | 16934.6 | 16058.3 | 15338.0 |
| 57.5° | 5480.6 | 5577.5 | 5408.9 | 5918.7 | 8307.2 | 13686.7 | 17111.5 | 17793.9 | 17861.3 | 16576.5 | 15729.8 |
| 60° | 4187.3 | 4229.4 | 4039.9 | 4119.9 | 5164.6 | 9394.0 | 13235.9 | 14057.4 | 16113.1 | 14487.1 | 13324.4 |
| 62.5° | 3247.9 | 3256.3 | 3252.1 | 3391.1 | 3559.6 | 5526.9 | 8277.7 | 9006.5 | 11108.6 | 10287.1 | 9048.6 |
| 65° | 2392.7 | 2354.8 | 2422.2 | 2843.5 | 3037.3 | 3475.4 | 4360.0 | 4890.8 | 6036.6 | 5097.2 | 3643.9 |
| 67.5° | 1550.2 | 1562.9 | 1630.3 | 2114.7 | 2603.4 | 2666.6 | 2683.4 | 2641.3 | 2645.5 | 1457.6 | 914.1 |
| 70° | 931.0 | 952.0 | 931.0 | 1196.4 | 1862.0 | 1912.5 | 1748.2 | 1706.1 | 1331.2 | 345.4 | 341.2 |
| 72.5° | 551.8 | 522.4 | 467.6 | 513.9 | 775.1 | 926.8 | 834.1 | 829.9 | 522.4 | 202.2 | 202.2 |
| 75° | 231.7 | 210.6 | 172.7 | 155.9 | 206.4 | 198.0 | 198.0 | 176.9 | 139.0 | 134.8 | 126.4 |
| 77.5° | 46.3 | 46.3 | 33.7 | 37.9 | 50.6 | 59.0 | 71.6 | 71.6 | 84.3 | 84.3 | 80.0 |
| 80° | 0.0 | 4.2 | 12.6 | 25.3 | 37.9 | 54.8 | 63.2 | 63.2 | 71.6 | 71.6 | 59.0 |
| 82.5° | 0.0 | 4.2 | 12.6 | 25.3 | 33.7 | 50.6 | 63.2 | 63.2 | 71.6 | 75.8 | 63.2 |
| 85° | 0.0 | 4.2 | 12.6 | 21.1 | 33.7 | 42.1 | 42.1 | 37.9 | 29.5 | 25.3 | 16.9 |
| 87.5° | 0.0 | 0.0 | 4.2 | 8.4 | 4.2 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 |
| 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-SA5D-760-U-SL2-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8121.8 | 8121.8 | 8121.8 | 8121.8 | 8121.8 | 8121.8 | 8121.8 | 8121.8 | 8121.8 | 8121.8 | 8121.8 |
| 2.5° | 8159.8 | 8155.5 | 8054.4 | 7890.2 | 7852.2 | 7713.2 | 7696.4 | 7612.1 | 7658.5 | 7502.6 | 7485.7 |
| 5° | 8092.4 | 8041.8 | 7919.6 | 7814.3 | 7506.8 | 7287.8 | 7115.0 | 6904.4 | 6782.2 | 6803.3 | 6723.3 |
| 7.5° | 8189.3 | 8058.7 | 7843.8 | 7477.3 | 7102.4 | 6719.1 | 6512.6 | 6083.0 | 5927.1 | 5695.4 | 5661.7 |
| 10° | 8088.1 | 7991.3 | 7658.5 | 7051.9 | 6533.7 | 5981.9 | 5497.4 | 5021.4 | 4659.1 | 4503.2 | 4469.5 |
| 12.5° | 8079.7 | 7911.2 | 7355.2 | 6681.1 | 5931.3 | 5139.3 | 4435.8 | 3841.9 | 3483.8 | 3281.6 | 3235.3 |
| 15° | 7949.1 | 7746.9 | 7013.9 | 6108.2 | 5071.9 | 4086.2 | 3319.5 | 2746.6 | 2472.8 | 2354.8 | 2388.5 |
| 17.5° | 7961.8 | 7658.5 | 6672.7 | 5501.6 | 4225.2 | 2999.4 | 2266.4 | 1971.5 | 1899.9 | 1929.4 | 1929.4 |
| 20° | 7949.1 | 7460.5 | 6259.9 | 4802.3 | 3235.3 | 2081.0 | 1664.0 | 1558.7 | 1605.0 | 1697.7 | 1676.6 |
| 22.5° | 7881.7 | 7367.8 | 5880.8 | 4065.1 | 2380.1 | 1541.8 | 1335.4 | 1339.6 | 1411.2 | 1525.0 | 1550.2 |
| 25° | 7932.3 | 7161.4 | 5400.5 | 3319.5 | 1735.6 | 1230.1 | 1158.5 | 1187.9 | 1263.8 | 1348.0 | 1364.9 |
| 27.5° | 7894.4 | 7013.9 | 4899.2 | 2578.1 | 1268.0 | 1057.4 | 1053.1 | 1086.8 | 1120.5 | 1183.7 | 1183.7 |
| 30° | 7936.5 | 6879.1 | 4406.4 | 1916.7 | 1044.7 | 968.9 | 952.0 | 977.3 | 1011.0 | 1023.7 | 1019.4 |
| 32.5° | 8092.4 | 6778.0 | 3837.7 | 1432.3 | 922.6 | 884.6 | 884.6 | 884.6 | 880.4 | 897.3 | 901.5 |
| 35° | 8433.6 | 6794.9 | 3336.4 | 1107.9 | 842.5 | 813.0 | 800.4 | 783.5 | 775.1 | 783.5 | 787.8 |
| 37.5° | 8804.3 | 6786.5 | 2818.2 | 943.6 | 783.5 | 758.3 | 728.8 | 703.5 | 699.3 | 707.7 | 695.1 |
| 40° | 8968.6 | 6866.5 | 2338.0 | 846.7 | 728.8 | 699.3 | 652.9 | 631.9 | 636.1 | 644.5 | 636.1 |
| 42.5° | 9191.8 | 6891.8 | 2026.2 | 770.9 | 678.2 | 631.9 | 602.4 | 577.1 | 572.9 | 585.5 | 581.3 |
| 45° | 9187.6 | 6748.5 | 1697.7 | 728.8 | 631.9 | 581.3 | 543.4 | 522.4 | 522.4 | 530.8 | 535.0 |
| 47.5° | 9457.2 | 6727.5 | 1457.6 | 690.9 | 598.2 | 547.6 | 501.3 | 484.4 | 480.2 | 480.2 | 471.8 |
| 50° | 10084.9 | 7022.4 | 1272.2 | 648.7 | 556.1 | 509.7 | 471.8 | 450.7 | 433.9 | 425.5 | 421.3 |
| 52.5° | 11310.8 | 7940.7 | 1129.0 | 598.2 | 509.7 | 471.8 | 438.1 | 421.3 | 400.2 | 379.1 | 374.9 |
| 54° | 12498.7 | 8888.5 | 1120.5 | 556.1 | 471.8 | 446.5 | 417.0 | 408.6 | 383.3 | 353.9 | 345.4 |
| 55° | 13033.7 | 9440.4 | 1150.0 | 522.4 | 446.5 | 429.7 | 404.4 | 396.0 | 370.7 | 337.0 | 332.8 |
| 57.5° | 13476.0 | 9655.2 | 1133.2 | 433.9 | 404.4 | 400.2 | 379.1 | 366.5 | 337.0 | 290.7 | 282.2 |
| 60° | 10847.4 | 7300.4 | 813.0 | 383.3 | 370.7 | 362.3 | 345.4 | 337.0 | 299.1 | 248.5 | 244.3 |
| 62.5° | 6853.9 | 4199.9 | 518.1 | 337.0 | 324.4 | 311.7 | 290.7 | 282.2 | 248.5 | 198.0 | 185.4 |
| 65° | 2919.3 | 1739.8 | 349.6 | 299.1 | 278.0 | 257.0 | 240.1 | 227.5 | 198.0 | 147.4 | 143.2 |
| 67.5° | 758.3 | 619.2 | 290.7 | 261.2 | 231.7 | 202.2 | 189.6 | 168.5 | 134.8 | 101.1 | 96.9 |
| 70° | 341.2 | 311.7 | 244.3 | 219.1 | 185.4 | 155.9 | 139.0 | 118.0 | 88.5 | 67.4 | 63.2 |
| 72.5° | 202.2 | 198.0 | 185.4 | 164.3 | 139.0 | 118.0 | 101.1 | 80.0 | 59.0 | 37.9 | 37.9 |
| 75° | 126.4 | 122.2 | 126.4 | 113.7 | 96.9 | 88.5 | 75.8 | 54.8 | 33.7 | 16.9 | 16.9 |
| 77.5° | 75.8 | 75.8 | 75.8 | 71.6 | 67.4 | 67.4 | 54.8 | 33.7 | 16.9 | 4.2 | 4.2 |
| 80° | 59.0 | 59.0 | 63.2 | 59.0 | 59.0 | 59.0 | 46.3 | 25.3 | 8.4 | 0.0 | 0.0 |
| 82.5° | 59.0 | 63.2 | 71.6 | 67.4 | 59.0 | 50.6 | 42.1 | 25.3 | 8.4 | 0.0 | 0.0 |
| 85° | 16.9 | 12.6 | 21.1 | 29.5 | 42.1 | 37.9 | 29.5 | 21.1 | 8.4 | 0.0 | 0.0 |
| 87.5° | 8.4 | 8.4 | 8.4 | 8.4 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 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)