

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: P653111

Luminaire Tested: **GLAN-SA9C-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P653111
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9C-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38493.4 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

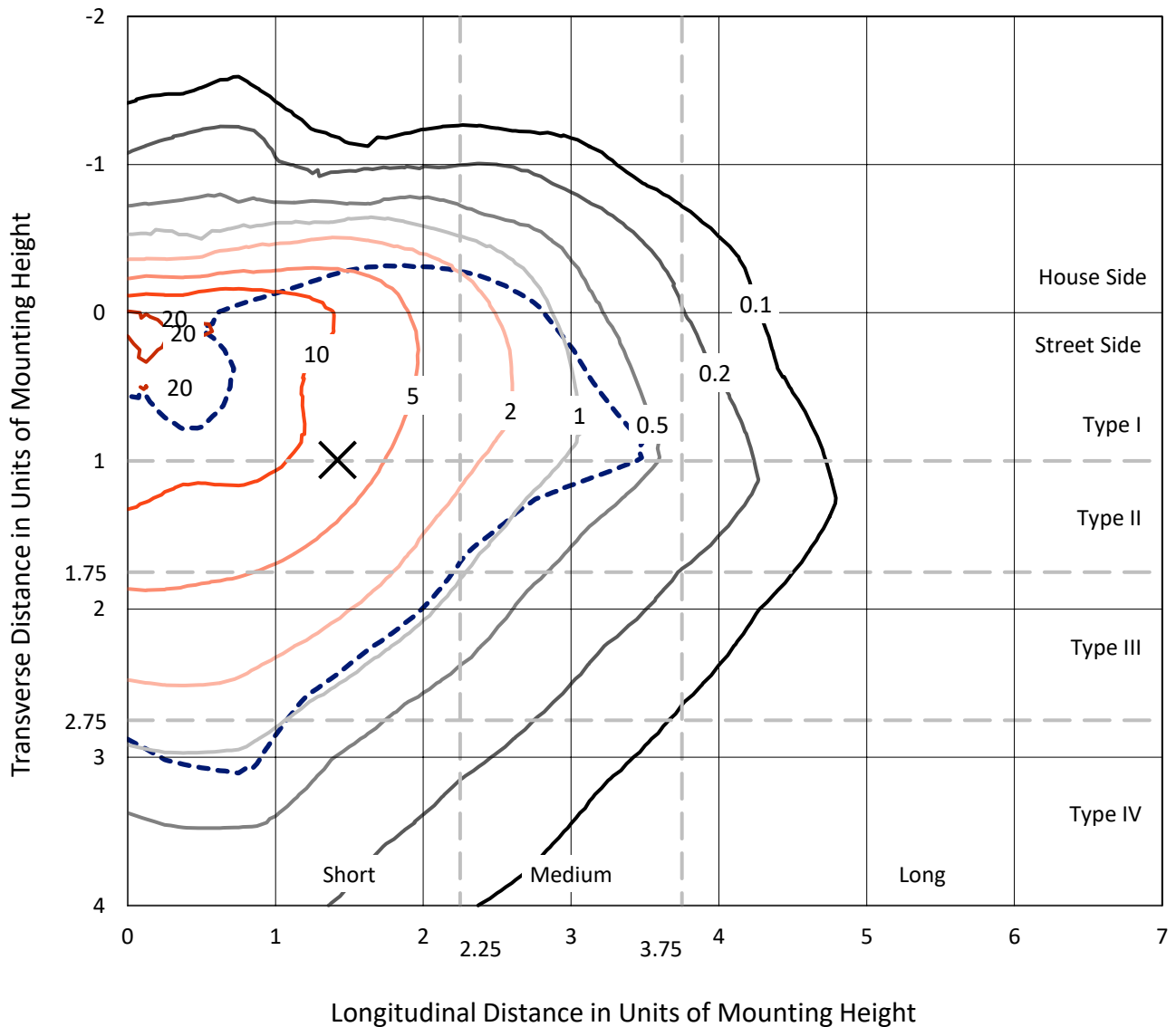
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P653111
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Iso-Footcandle Lines of Horizontal Illumination

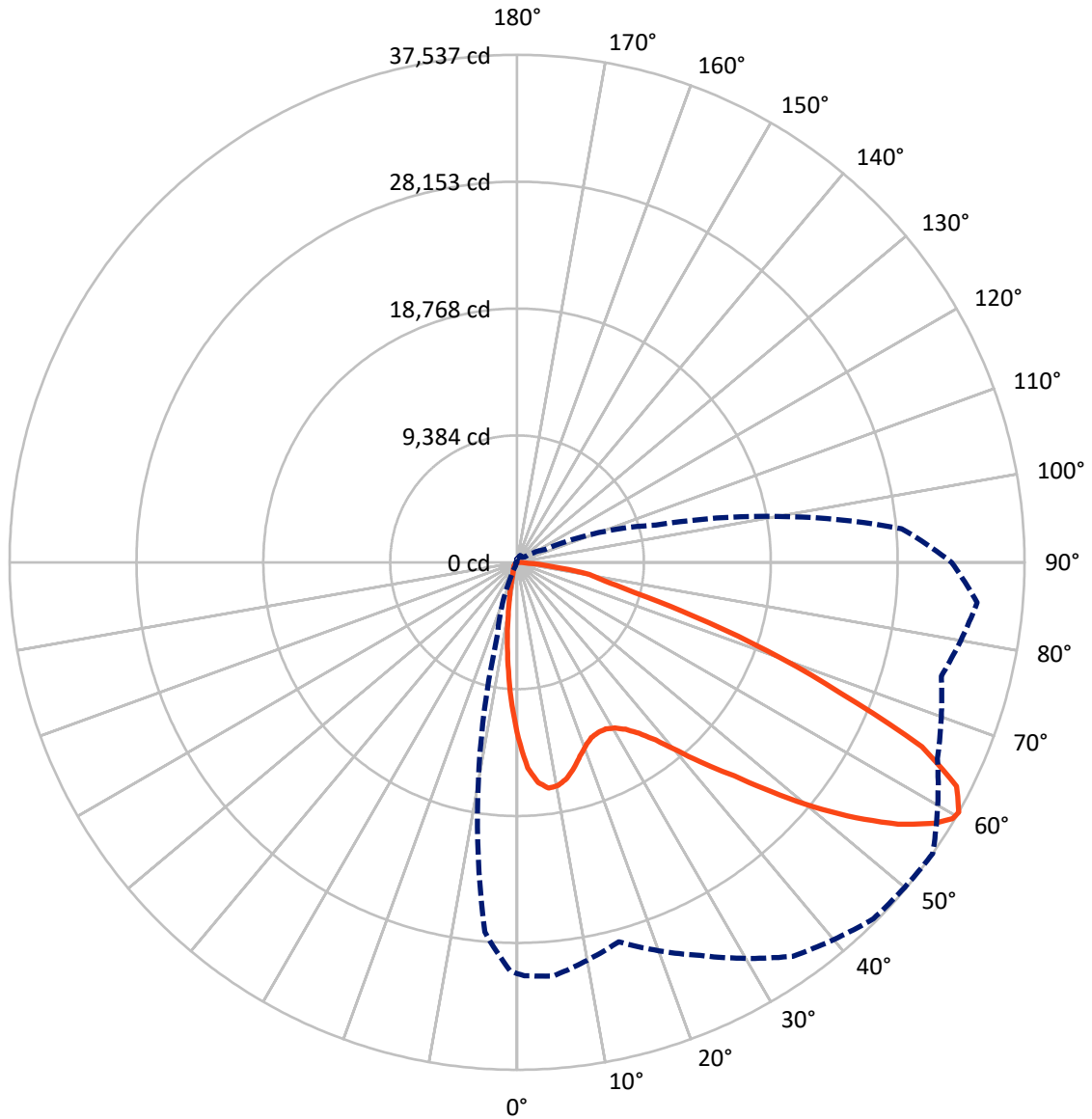
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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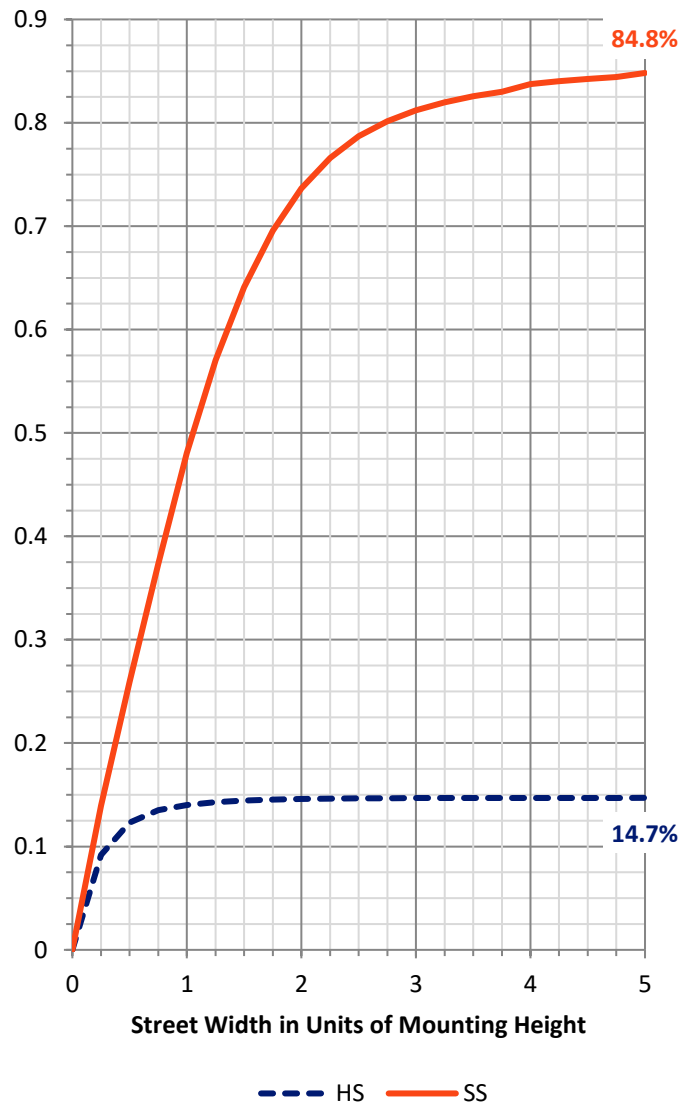
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5712.8 | 0.0 | 5712.8 |
| | % Fixture | 14.8 | 0.0 | 14.8 |
| Street Side | Lumens | 32780.6 | 0.0 | 32780.6 |
| | % Fixture | 85.2 | 0.0 | 85.2 |
| Total | Lumens | 38493.4 | 0.0 | 38493.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 965.2 | 2.5 |
| 10°-20° | 1900.6 | 4.9 |
| 20°-30° | 2813.3 | 7.3 |
| 30°-40° | 4193.5 | 10.9 |
| 40°-50° | 6141.4 | 16.0 |
| 50°-60° | 8866.3 | 23.0 |
| 60°-70° | 9326.9 | 24.2 |
| 70°-80° | 3836.8 | 10.0 |
| 80°-90° | 449.4 | 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° | 38493.4 | 100.0 |
| 0°-180° | 38493.4 | 100.0 |

Coefficient of Utilization

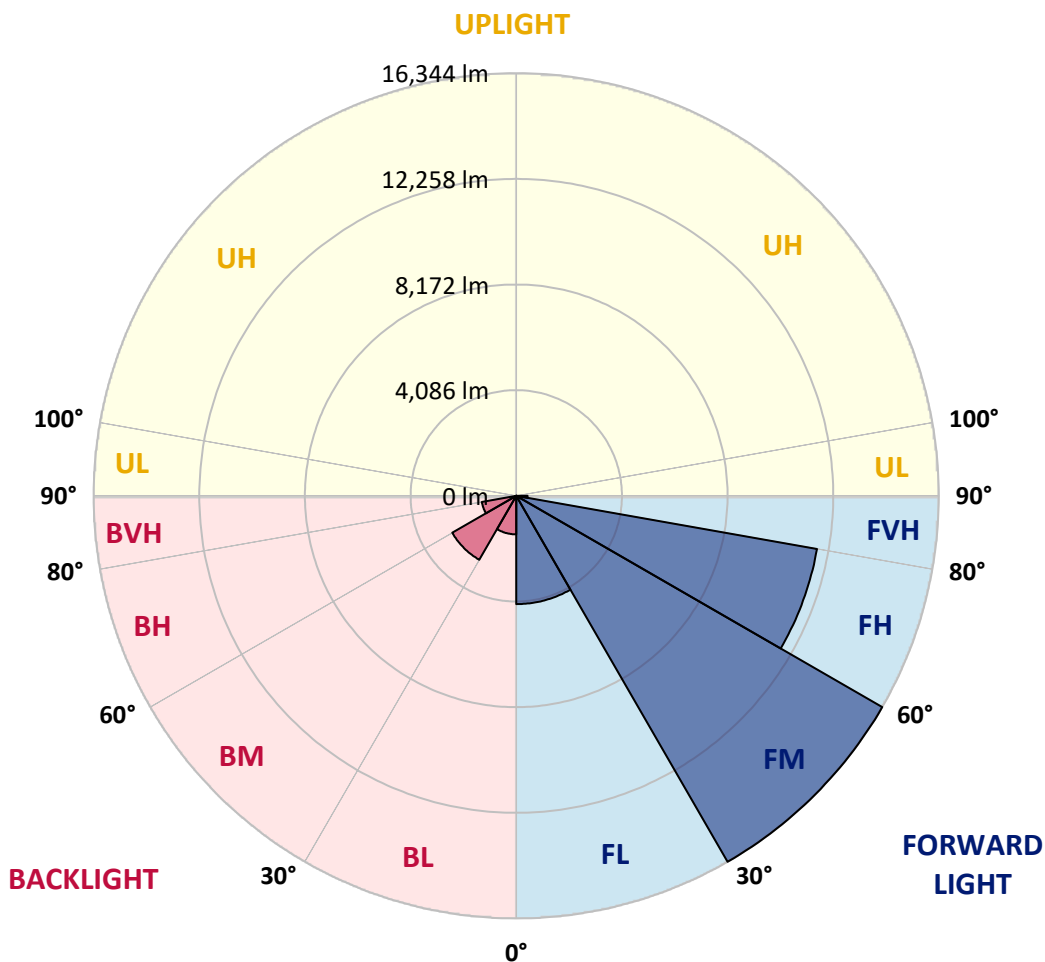


REPORT NUMBER: P653111
 CATALOG NUMBER: GLAN-SA9C-840-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 4188.6 | 10.9 | | | |
| FM (30°-60°) | 16344.4 | 42.5 | | | |
| FH (60°-80°) | 11811.5 | 30.7 | | | G4/12000 |
| FVH (80°-90°) | 436.2 | 1.1 | | | G3/500 |
| BL (0°-30°) | 1490.5 | 3.9 | B3/2500 | | |
| BM (30°-60°) | 2856.9 | 7.4 | B3/5000 | | |
| BH (60°-80°) | 1352.2 | 3.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 13.2 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type III Short





REPORT NUMBER: P653111

CATALOG NUMBER: GLAN-SA9C-840-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13033.7 | 13033.7 | 13033.7 | 13033.7 | 13033.7 | 13033.7 | 13033.7 | 13033.7 | 13033.7 | 13033.7 | 13033.7 |
| 2.5° | 14239.6 | 14215.9 | 14426.3 | 14770.0 | 15116.6 | 15297.5 | 15261.9 | 15247.1 | 14959.6 | 14749.3 | 14307.8 |
| 5° | 14210.0 | 14331.5 | 14707.8 | 15638.1 | 16343.3 | 16684.0 | 16784.8 | 16361.1 | 15801.1 | 14989.3 | 13987.8 |
| 7.5° | 13359.7 | 13510.7 | 14124.1 | 15578.9 | 16832.2 | 17572.9 | 17546.3 | 16867.8 | 15712.2 | 14455.9 | 13027.8 |
| 10° | 12304.9 | 12482.6 | 13202.6 | 14968.5 | 16595.2 | 17572.9 | 17626.3 | 16767.0 | 15330.0 | 13718.2 | 12216.0 |
| 12.5° | 11561.2 | 11771.6 | 12568.6 | 14399.7 | 15984.8 | 16947.7 | 17010.0 | 16387.7 | 15042.6 | 13433.7 | 11774.5 |
| 15° | 11309.3 | 11507.9 | 12316.8 | 14112.2 | 15336.0 | 15854.4 | 15839.6 | 15774.5 | 14930.0 | 13501.9 | 11798.2 |
| 17.5° | 11742.0 | 11904.9 | 12817.5 | 14242.6 | 14728.5 | 14675.2 | 14752.2 | 15066.3 | 14953.7 | 14073.7 | 12544.9 |
| 20° | 12859.0 | 13024.9 | 14005.6 | 14642.7 | 14263.4 | 13925.6 | 13961.2 | 14485.6 | 15173.0 | 15149.3 | 13712.3 |
| 22.5° | 14396.7 | 14678.1 | 15567.0 | 15418.9 | 14201.1 | 13460.5 | 13386.4 | 14067.8 | 15546.3 | 16387.7 | 15288.5 |
| 25° | 16343.3 | 16627.7 | 17321.1 | 16657.4 | 14506.3 | 13350.8 | 13282.7 | 13940.4 | 15999.6 | 17596.6 | 17063.3 |
| 27.5° | 17978.8 | 18195.1 | 18885.5 | 17863.3 | 14956.7 | 13398.2 | 13285.6 | 13958.2 | 16367.0 | 18624.7 | 18559.5 |
| 30° | 19288.4 | 19448.5 | 19854.3 | 18426.2 | 15344.8 | 13605.6 | 13475.3 | 14219.0 | 16529.9 | 19125.4 | 19771.4 |
| 32.5° | 20343.2 | 20612.8 | 20740.2 | 19027.7 | 15901.9 | 13996.7 | 13774.5 | 14719.7 | 16927.0 | 19744.7 | 21042.5 |
| 35° | 21549.1 | 21860.2 | 21697.3 | 19602.5 | 16636.7 | 14607.1 | 14334.5 | 15531.5 | 17528.5 | 20316.5 | 22517.9 |
| 37.5° | 23078.0 | 23436.5 | 22799.4 | 20207.0 | 17412.9 | 15525.5 | 15398.1 | 16672.2 | 18441.0 | 21134.3 | 24100.2 |
| 40° | 24660.1 | 24867.5 | 23869.1 | 20941.7 | 18366.9 | 16861.8 | 16983.3 | 18366.9 | 19635.1 | 22115.0 | 25783.1 |
| 42.5° | 25895.7 | 26091.3 | 24968.3 | 21558.0 | 19341.7 | 18447.0 | 18953.6 | 20411.3 | 21004.0 | 23119.4 | 27039.3 |
| 45° | 26840.9 | 27006.8 | 25729.7 | 22230.6 | 20657.3 | 20743.2 | 21700.2 | 22517.9 | 22375.7 | 23732.8 | 28008.2 |
| 47.5° | 27575.6 | 27717.8 | 26316.4 | 22953.5 | 22627.6 | 23552.0 | 25015.7 | 25362.4 | 23797.9 | 24396.5 | 28885.2 |
| 50° | 27877.9 | 27919.3 | 26500.1 | 23875.0 | 24864.6 | 27131.2 | 28657.1 | 28446.7 | 25427.6 | 25134.2 | 29818.6 |
| 52.5° | 28271.9 | 28263.1 | 27024.5 | 24752.0 | 26968.3 | 30331.1 | 31854.1 | 31377.0 | 27270.4 | 26239.4 | 30867.4 |
| 55° | 29306.0 | 29317.8 | 28147.5 | 25996.4 | 28760.8 | 32914.8 | 34544.3 | 34197.7 | 29214.2 | 28106.0 | 32091.0 |
| 57.5° | 30562.2 | 30606.7 | 29744.5 | 27451.2 | 30473.4 | 34787.3 | 36553.2 | 36419.8 | 31842.2 | 30183.0 | 33246.6 |
| 59° | 30725.2 | 30814.1 | 30500.0 | 28476.3 | 31489.6 | 35362.1 | 37240.6 | 37370.9 | 33249.6 | 31551.8 | 33871.8 |
| 60° | 30428.9 | 30577.1 | 30719.3 | 29057.1 | 32085.2 | 35569.5 | 37282.0 | 37536.9 | 34307.3 | 32482.2 | 34156.2 |
| 62.5° | 29137.1 | 29371.2 | 30085.2 | 30843.7 | 32828.9 | 34923.6 | 35957.6 | 36491.0 | 35616.9 | 34926.6 | 34182.9 |
| 65° | 27445.3 | 27566.7 | 28597.9 | 31160.7 | 31386.0 | 31907.4 | 32227.4 | 32911.8 | 34043.6 | 35868.7 | 32959.2 |
| 67.5° | 24672.0 | 25030.5 | 26292.7 | 29320.8 | 27128.2 | 26511.9 | 26432.0 | 25750.5 | 28689.7 | 33622.9 | 29943.0 |
| 70° | 20381.7 | 20541.8 | 22097.3 | 24038.0 | 20473.6 | 19525.5 | 19904.7 | 19649.9 | 22239.5 | 28944.5 | 24100.2 |
| 72.5° | 15412.9 | 15774.5 | 17294.4 | 19161.0 | 13931.5 | 12702.0 | 13747.8 | 13653.0 | 16704.8 | 23261.6 | 16556.7 |
| 75° | 10965.6 | 11199.8 | 13137.4 | 14995.2 | 9756.8 | 8266.4 | 8642.8 | 8995.3 | 11662.0 | 18366.9 | 9783.4 |
| 77.5° | 7534.6 | 7736.1 | 9190.9 | 9916.8 | 7116.9 | 6817.7 | 6236.9 | 6577.6 | 7641.3 | 10897.5 | 5324.3 |
| 80° | 4545.1 | 4536.2 | 5493.2 | 5670.9 | 4956.9 | 5756.9 | 4829.5 | 5422.1 | 4619.1 | 4663.6 | 2062.1 |
| 82.5° | 2951.1 | 2921.4 | 3359.9 | 3662.1 | 2758.5 | 2900.7 | 1946.6 | 2805.8 | 3010.3 | 1300.7 | 651.9 |
| 85° | 1321.5 | 1377.7 | 1614.8 | 2130.3 | 1208.9 | 642.9 | 397.0 | 862.2 | 1282.9 | 654.8 | 0.0 |
| 87.5° | 136.3 | 106.6 | 284.4 | 518.5 | 165.9 | 17.7 | 59.3 | 29.6 | 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 |



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CATALOG NUMBER: GLAN-SA9C-840-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13033.7 | 13033.7 | 13033.7 | 13033.7 | 13033.7 | 13033.7 | 13033.7 | 13033.7 | 13033.7 | 13033.7 | 13033.7 |
| 2.5° | 14103.4 | 13931.5 | 13418.9 | 12939.0 | 12527.1 | 12023.4 | 11697.5 | 11184.9 | 10873.8 | 10779.0 | 10793.8 |
| 5° | 13537.5 | 13042.6 | 12067.8 | 11288.7 | 10420.5 | 9925.7 | 9173.1 | 8450.2 | 8059.1 | 7913.9 | 7848.7 |
| 7.5° | 12352.3 | 11821.9 | 10645.6 | 9422.0 | 8491.7 | 7623.5 | 7063.6 | 6426.5 | 5990.9 | 5632.4 | 5570.2 |
| 10° | 11472.3 | 10776.1 | 9318.3 | 8002.8 | 7268.0 | 6616.1 | 6056.1 | 5419.2 | 4906.6 | 4497.7 | 4385.1 |
| 12.5° | 10944.9 | 10165.7 | 8539.1 | 7436.9 | 6740.6 | 6070.9 | 5342.1 | 4604.3 | 4079.9 | 3638.4 | 3434.0 |
| 15° | 10850.1 | 9946.4 | 8319.8 | 7030.9 | 6171.7 | 5362.8 | 4394.0 | 3597.0 | 3057.7 | 2639.9 | 2512.6 |
| 17.5° | 11422.0 | 10340.5 | 8287.2 | 6607.2 | 5428.0 | 4281.4 | 3274.0 | 2613.2 | 2005.9 | 1771.8 | 1680.0 |
| 20° | 12441.2 | 11036.8 | 8284.3 | 6115.4 | 4663.6 | 3297.7 | 2299.2 | 1703.7 | 1457.7 | 1345.2 | 1291.9 |
| 22.5° | 13830.7 | 11984.9 | 8441.3 | 5691.7 | 3869.5 | 2432.5 | 1641.5 | 1357.0 | 1214.8 | 1122.9 | 1102.2 |
| 25° | 15528.5 | 13389.3 | 8826.5 | 5404.4 | 3262.2 | 1908.1 | 1354.0 | 1161.4 | 1042.9 | 1001.5 | 983.7 |
| 27.5° | 17036.6 | 14734.5 | 9250.2 | 5108.1 | 2826.6 | 1688.8 | 1256.3 | 1063.7 | 968.8 | 936.3 | 909.6 |
| 30° | 18337.3 | 15955.2 | 9454.6 | 4716.9 | 2477.0 | 1546.6 | 1274.0 | 1137.8 | 1013.3 | 915.5 | 871.1 |
| 32.5° | 19421.7 | 16891.5 | 9587.9 | 4361.3 | 2180.7 | 1265.1 | 1007.3 | 879.9 | 823.7 | 788.1 | 758.5 |
| 35° | 20778.8 | 17904.7 | 9507.9 | 4159.9 | 2029.6 | 1152.6 | 918.5 | 758.5 | 663.7 | 592.6 | 563.0 |
| 37.5° | 22201.0 | 18918.0 | 9368.7 | 3994.0 | 1961.5 | 1069.6 | 874.1 | 720.0 | 616.3 | 542.2 | 503.7 |
| 40° | 23673.5 | 19857.3 | 9205.7 | 3839.9 | 1899.2 | 1016.3 | 847.4 | 687.3 | 583.7 | 503.7 | 462.2 |
| 42.5° | 25021.6 | 20772.9 | 9140.5 | 3739.2 | 1798.5 | 1025.2 | 826.6 | 672.5 | 551.1 | 468.1 | 432.6 |
| 45° | 26112.0 | 21640.9 | 9229.4 | 3685.9 | 1688.8 | 1010.4 | 832.6 | 654.8 | 524.4 | 444.5 | 408.9 |
| 47.5° | 27276.4 | 22867.6 | 9516.8 | 3632.5 | 1582.2 | 939.2 | 877.0 | 651.9 | 512.6 | 429.6 | 391.1 |
| 50° | 28630.4 | 24437.9 | 10174.6 | 3502.2 | 1451.8 | 862.2 | 933.3 | 648.8 | 497.8 | 411.8 | 373.3 |
| 52.5° | 30434.9 | 26221.6 | 10853.1 | 3274.0 | 1262.2 | 788.1 | 891.8 | 640.0 | 468.1 | 391.1 | 352.5 |
| 55° | 32055.6 | 28100.1 | 11427.8 | 3004.4 | 1022.2 | 681.5 | 802.9 | 601.5 | 417.8 | 355.6 | 320.0 |
| 57.5° | 32725.2 | 29160.7 | 11410.1 | 2631.1 | 817.8 | 598.5 | 660.7 | 551.1 | 364.4 | 314.0 | 284.4 |
| 59° | 32479.3 | 29027.5 | 11027.9 | 2355.5 | 746.6 | 554.1 | 548.2 | 545.1 | 340.8 | 284.4 | 260.7 |
| 60° | 32132.6 | 28541.5 | 10616.0 | 2219.2 | 702.2 | 524.4 | 503.7 | 539.2 | 320.0 | 266.7 | 243.0 |
| 62.5° | 30805.2 | 26526.7 | 9250.2 | 1988.1 | 642.9 | 444.5 | 402.9 | 456.3 | 284.4 | 231.1 | 210.3 |
| 65° | 28882.3 | 23430.5 | 7830.9 | 1922.9 | 625.2 | 367.4 | 334.8 | 325.9 | 243.0 | 195.5 | 177.8 |
| 67.5° | 25131.3 | 19827.7 | 6343.6 | 1878.5 | 631.1 | 308.1 | 293.3 | 245.9 | 201.5 | 163.0 | 151.1 |
| 70° | 20121.0 | 15460.4 | 5193.9 | 1828.1 | 637.1 | 251.9 | 245.9 | 195.5 | 163.0 | 136.3 | 124.5 |
| 72.5° | 12224.9 | 9164.2 | 4088.8 | 1588.1 | 619.2 | 201.5 | 219.2 | 148.2 | 118.5 | 97.8 | 91.8 |
| 75° | 7558.3 | 6272.4 | 2536.2 | 1235.5 | 408.9 | 148.2 | 154.1 | 91.8 | 80.0 | 62.2 | 62.2 |
| 77.5° | 4379.2 | 3961.4 | 906.7 | 444.5 | 180.7 | 88.9 | 68.1 | 47.4 | 44.4 | 26.7 | 26.7 |
| 80° | 1816.2 | 1454.8 | 314.0 | 151.1 | 97.8 | 41.5 | 14.8 | 2.9 | 0.0 | 0.0 | 0.0 |
| 82.5° | 530.3 | 471.1 | 86.0 | 68.1 | 29.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13033.7 | 13033.7 | 13033.7 | 13033.7 | 13033.7 | 13033.7 | 13033.7 | 13033.7 | 13033.7 | 13033.7 | 13033.7 |
| 2.5° | 10541.9 | 10444.2 | 10399.7 | 10550.8 | 10411.6 | 10589.4 | 10453.1 | 10512.3 | 10687.2 | 10764.2 | 10962.7 |
| 5° | 7890.2 | 7789.4 | 7742.1 | 7970.2 | 7958.3 | 8070.9 | 8059.1 | 8162.7 | 8251.6 | 8053.2 | 8257.6 |
| 7.5° | 5496.2 | 5428.0 | 5540.6 | 5718.4 | 5908.0 | 5845.8 | 5845.8 | 5706.5 | 5754.0 | 5724.3 | 5715.4 |
| 10° | 4180.6 | 3946.6 | 3887.4 | 3881.4 | 3952.5 | 3967.3 | 3887.4 | 3694.8 | 3765.8 | 3786.6 | 3911.0 |
| 12.5° | 3288.8 | 3108.1 | 2832.5 | 2708.1 | 2675.5 | 2702.1 | 2438.5 | 2269.6 | 2349.6 | 2302.2 | 2423.7 |
| 15° | 2358.5 | 2210.3 | 2047.3 | 1908.1 | 1869.5 | 1816.2 | 1528.9 | 1327.4 | 1303.6 | 1312.5 | 1333.3 |
| 17.5° | 1682.9 | 1582.2 | 1582.2 | 1434.1 | 1354.0 | 1194.1 | 1048.9 | 960.0 | 951.1 | 960.0 | 974.8 |
| 20° | 1241.5 | 1188.1 | 1182.2 | 1143.7 | 1054.8 | 948.1 | 847.4 | 829.6 | 823.7 | 838.5 | 844.4 |
| 22.5° | 1069.6 | 1013.3 | 965.9 | 962.9 | 879.9 | 791.1 | 743.7 | 720.0 | 722.9 | 728.9 | 743.7 |
| 25° | 957.0 | 897.8 | 847.4 | 817.8 | 758.5 | 696.3 | 651.9 | 640.0 | 640.0 | 648.8 | 651.9 |
| 27.5° | 877.0 | 802.9 | 758.5 | 717.0 | 663.7 | 610.4 | 571.9 | 563.0 | 557.0 | 563.0 | 577.8 |
| 30° | 820.7 | 746.6 | 690.4 | 628.1 | 586.7 | 536.3 | 503.7 | 491.8 | 488.9 | 491.8 | 503.7 |
| 32.5° | 702.2 | 657.7 | 613.3 | 557.0 | 506.6 | 474.1 | 438.5 | 417.8 | 417.8 | 423.7 | 435.6 |
| 35° | 530.3 | 506.6 | 503.7 | 488.9 | 447.4 | 411.8 | 370.4 | 349.6 | 349.6 | 361.5 | 367.4 |
| 37.5° | 468.1 | 423.7 | 417.8 | 411.8 | 394.1 | 346.7 | 308.1 | 290.4 | 287.4 | 296.3 | 308.1 |
| 40° | 426.6 | 376.3 | 349.6 | 343.7 | 346.7 | 293.3 | 251.9 | 234.1 | 234.1 | 237.0 | 248.9 |
| 42.5° | 394.1 | 334.8 | 287.4 | 281.5 | 293.3 | 245.9 | 204.4 | 186.7 | 186.7 | 186.7 | 201.5 |
| 45° | 367.4 | 299.2 | 243.0 | 213.4 | 231.1 | 201.5 | 165.9 | 148.2 | 142.2 | 148.2 | 154.1 |
| 47.5° | 349.6 | 272.6 | 213.4 | 171.8 | 171.8 | 160.0 | 133.3 | 112.6 | 106.6 | 109.7 | 118.5 |
| 50° | 334.8 | 248.9 | 180.7 | 139.3 | 124.5 | 127.4 | 100.8 | 86.0 | 80.0 | 80.0 | 88.9 |
| 52.5° | 311.1 | 225.2 | 157.0 | 118.5 | 94.8 | 86.0 | 74.1 | 62.2 | 59.3 | 62.2 | 68.1 |
| 55° | 281.5 | 204.4 | 136.3 | 97.8 | 74.1 | 59.3 | 53.3 | 44.4 | 41.5 | 44.4 | 53.3 |
| 57.5° | 248.9 | 171.8 | 109.7 | 77.0 | 50.4 | 38.5 | 35.6 | 29.6 | 23.7 | 26.7 | 32.6 |
| 59° | 228.2 | 154.1 | 94.8 | 62.2 | 38.5 | 26.7 | 26.7 | 20.8 | 14.8 | 17.7 | 26.7 |
| 60° | 219.2 | 142.2 | 80.0 | 53.3 | 32.6 | 20.8 | 20.8 | 14.8 | 8.9 | 11.9 | 20.8 |
| 62.5° | 186.7 | 118.5 | 62.2 | 32.6 | 14.8 | 2.9 | 8.9 | 2.9 | 0.0 | 2.9 | 8.9 |
| 65° | 157.0 | 94.8 | 41.5 | 14.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 |
| 67.5° | 130.4 | 71.1 | 20.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 103.7 | 47.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 71.1 | 26.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 44.4 | 8.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 17.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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 |



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| 2.5° | 10974.5 | 11398.2 | 11659.0 | 12150.9 | 12654.5 | 13042.6 | 13528.6 | 13964.1 | 14144.9 | 14239.6 |
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| 62.5° | 35.6 | 62.2 | 80.0 | 112.6 | 148.2 | 219.2 | 4959.9 | 25717.9 | 28977.1 | 29137.1 |
| 65° | 23.7 | 44.4 | 59.3 | 82.9 | 115.6 | 189.6 | 4041.4 | 23477.9 | 27086.8 | 27445.3 |
| 67.5° | 14.8 | 32.6 | 47.4 | 62.2 | 94.8 | 160.0 | 2879.9 | 20132.9 | 24440.9 | 24672.0 |
| 70° | 8.9 | 20.8 | 35.6 | 50.4 | 74.1 | 127.4 | 1709.6 | 15913.7 | 20334.3 | 20381.7 |
| 72.5° | 5.9 | 14.8 | 23.7 | 35.6 | 59.3 | 115.6 | 829.6 | 10373.1 | 14847.0 | 15412.9 |
| 75° | 2.9 | 8.9 | 14.8 | 26.7 | 47.4 | 94.8 | 397.0 | 6930.2 | 10802.7 | 10965.6 |
| 77.5° | 0.0 | 2.9 | 8.9 | 17.7 | 35.6 | 74.1 | 231.1 | 4551.0 | 7365.7 | 7534.6 |
| 80° | 0.0 | 0.0 | 5.9 | 14.8 | 26.7 | 47.4 | 139.3 | 2684.4 | 4462.1 | 4545.1 |
| 82.5° | 0.0 | 0.0 | 2.9 | 11.9 | 17.7 | 35.6 | 71.1 | 1179.3 | 2921.4 | 2951.1 |
| 85° | 0.0 | 0.0 | 2.9 | 11.9 | 14.8 | 23.7 | 26.7 | 160.0 | 1297.7 | 1321.5 |
| 87.5° | 0.0 | 0.0 | 2.9 | 14.8 | 14.8 | 14.8 | 14.8 | 8.9 | 109.7 | 136.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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