

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: P459280

Luminaire Tested: **GLAN-SA7C-735-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7C-735-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39320 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

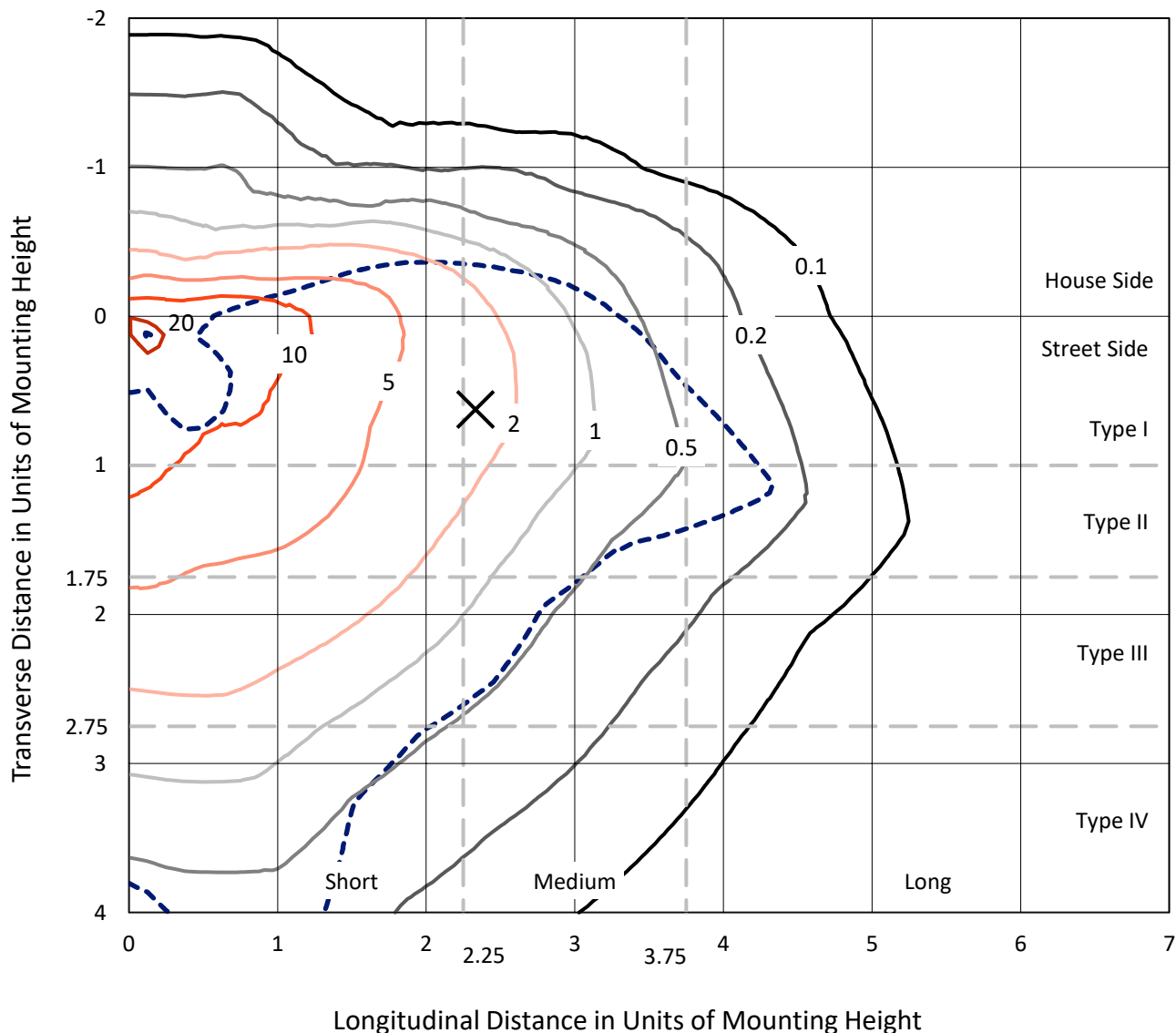
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459280
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Iso-Footcandle Lines of Horizontal Illumination

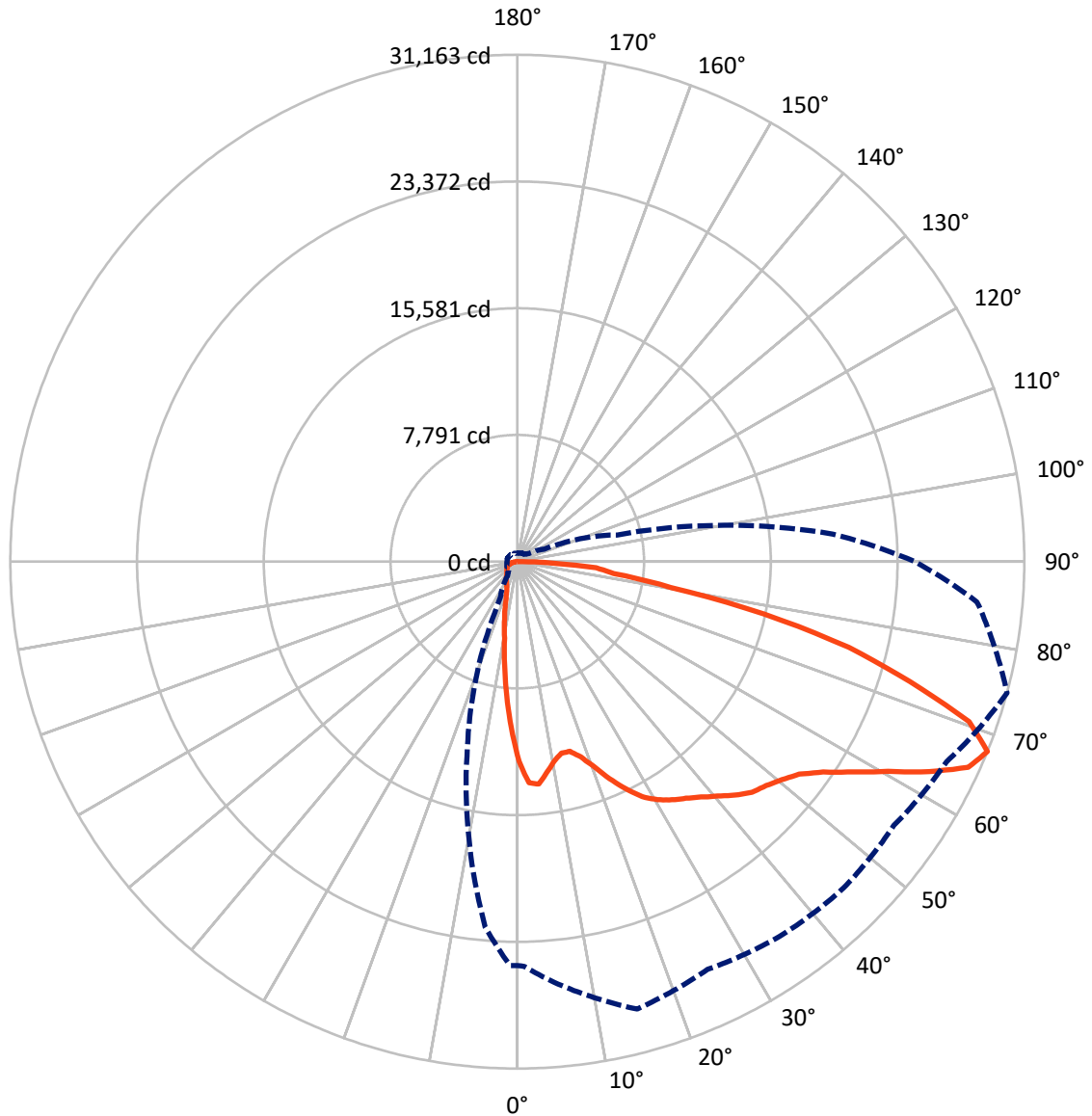
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6645.9 | 0.0 | 6645.9 |
| | % Fixture | 16.9 | 0.0 | 16.9 |
| Street Side | Lumens | 32674.1 | 0.0 | 32674.1 |
| | % Fixture | 83.1 | 0.0 | 83.1 |
| Total | Lumens | 39320.0 | 0.0 | 39320.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 931.7 | 2.4 |
| 10°-20° | 1943.2 | 4.9 |
| 20°-30° | 2796.3 | 7.1 |
| 30°-40° | 4027.4 | 10.2 |
| 40°-50° | 5657.4 | 14.4 |
| 50°-60° | 7890.1 | 20.1 |
| 60°-70° | 9380.8 | 23.9 |
| 70°-80° | 5524.8 | 14.1 |
| 80°-90° | 1168.3 | 3.0 |
| 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° | 39320.0 | 100.0 |
| 0°-180° | 39320.0 | 100.0 |

Coefficient of Utilization



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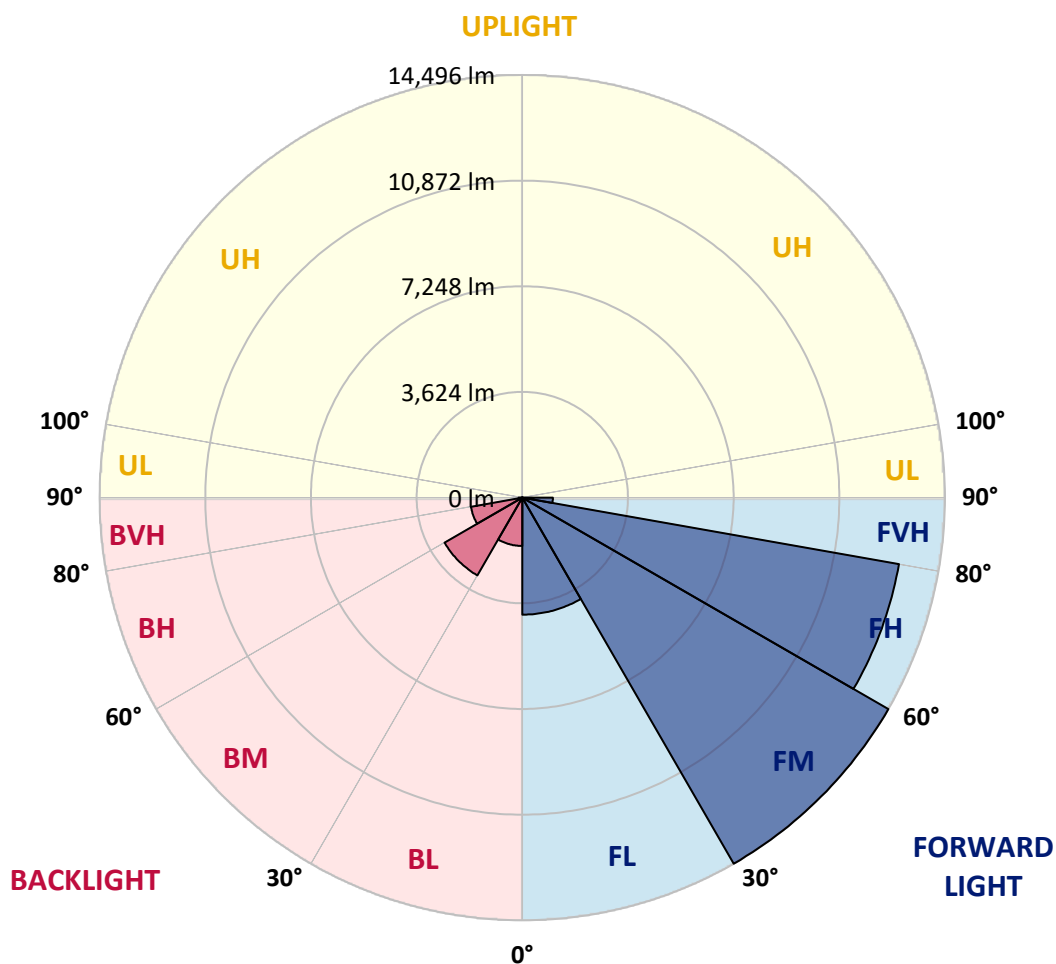
CATALOG NUMBER: GLAN-SA7C-735-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4013.5 | 10.2 | | | |
| FM | (30°-60°) | 14495.8 | 36.9 | | | |
| FH | (60°-80°) | 13117.3 | 33.4 | | | G5 |
| FVH | (80°-90°) | 1047.4 | 2.7 | | | G5 |
| BL | (0°-30°) | 1657.7 | 4.2 | B3/2500 | | |
| BM | (30°-60°) | 3079.1 | 7.8 | B3/5000 | | |
| BH | (60°-80°) | 1788.3 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 120.8 | 0.3 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Medium





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CATALOG NUMBER: GLAN-SA7C-735-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 |
| 2.5° | 13245.2 | 13262.8 | 13376.3 | 13706.6 | 13933.5 | 14016.7 | 14074.7 | 13966.3 | 13860.4 | 13603.2 | 13214.9 |
| 5° | 13204.8 | 13308.2 | 13603.2 | 14344.5 | 14929.5 | 15181.6 | 15257.3 | 14932.0 | 14395.0 | 13734.3 | 12940.1 |
| 7.5° | 12433.3 | 12571.9 | 13025.8 | 14268.9 | 15300.2 | 15890.2 | 15812.0 | 15224.5 | 14256.3 | 13078.8 | 11969.3 |
| 10° | 11518.0 | 11671.8 | 12218.9 | 13721.7 | 15050.5 | 15862.4 | 15862.4 | 15146.3 | 13860.4 | 12461.0 | 11182.6 |
| 12.5° | 10791.8 | 10953.2 | 11578.5 | 13159.4 | 14531.1 | 15300.2 | 15428.7 | 14813.5 | 13575.5 | 12070.2 | 10665.7 |
| 15° | 10552.3 | 10708.6 | 11381.8 | 12819.0 | 13981.4 | 14450.4 | 14493.3 | 14291.6 | 13436.8 | 12097.9 | 10643.0 |
| 17.5° | 10849.8 | 11051.5 | 11732.3 | 12919.9 | 13477.1 | 13504.9 | 13537.7 | 13696.5 | 13451.9 | 12604.7 | 11101.9 |
| 20° | 11709.6 | 11926.5 | 12637.5 | 13245.2 | 13035.9 | 12748.4 | 12766.1 | 13174.6 | 13631.0 | 13441.8 | 12198.8 |
| 22.5° | 12950.2 | 13139.3 | 13868.0 | 13817.5 | 12849.3 | 12256.8 | 12133.2 | 12703.1 | 13895.7 | 14485.7 | 13366.2 |
| 25° | 14289.1 | 14510.9 | 15348.1 | 14667.3 | 12902.3 | 11964.3 | 11886.1 | 12425.7 | 14170.5 | 15461.5 | 14715.2 |
| 27.5° | 15822.1 | 16038.9 | 16699.6 | 15524.6 | 13179.6 | 11941.6 | 11848.3 | 12400.5 | 14417.6 | 16364.2 | 16003.6 |
| 30° | 16961.8 | 17161.0 | 17609.8 | 16245.7 | 13520.0 | 12092.9 | 11976.9 | 12599.7 | 14629.4 | 16982.0 | 17259.3 |
| 32.5° | 17856.9 | 18063.7 | 18308.2 | 16694.5 | 13968.8 | 12367.7 | 12153.4 | 12962.8 | 14906.8 | 17453.5 | 18189.7 |
| 35° | 18789.8 | 19034.4 | 19016.8 | 17092.9 | 14387.4 | 12685.4 | 12476.1 | 13487.2 | 15343.0 | 17864.5 | 19369.8 |
| 37.5° | 19972.4 | 20070.7 | 19944.7 | 17450.9 | 14889.2 | 13257.8 | 13141.8 | 14266.4 | 15963.3 | 18361.2 | 20749.0 |
| 40° | 21172.6 | 21369.3 | 20721.3 | 17884.6 | 15499.3 | 14334.4 | 14321.8 | 15418.7 | 16699.6 | 18943.6 | 22085.4 |
| 42.5° | 22201.4 | 22367.8 | 21447.4 | 18262.9 | 16238.1 | 15648.1 | 15743.9 | 16964.3 | 17665.3 | 19619.4 | 23159.5 |
| 45° | 22975.4 | 23124.2 | 22118.1 | 18628.5 | 17211.4 | 17166.0 | 17730.8 | 18620.9 | 18883.1 | 20227.1 | 23789.9 |
| 47.5° | 23633.5 | 23777.3 | 22584.6 | 19183.2 | 18414.1 | 18978.9 | 19962.3 | 20348.1 | 19924.5 | 20575.0 | 24495.9 |
| 50° | 24188.3 | 24231.1 | 22904.8 | 19843.8 | 19906.8 | 21200.3 | 22153.4 | 22403.1 | 20953.2 | 21074.3 | 25108.6 |
| 52.5° | 24765.7 | 24710.2 | 23457.0 | 20675.9 | 21520.6 | 23308.3 | 24001.7 | 24261.4 | 21939.1 | 21689.5 | 26001.2 |
| 55° | 26059.2 | 26112.1 | 24695.1 | 21724.8 | 23151.9 | 25378.4 | 26291.1 | 26041.5 | 23030.9 | 22821.6 | 27135.8 |
| 57.5° | 27622.5 | 27577.1 | 26437.4 | 23366.3 | 24813.6 | 27304.8 | 27985.6 | 27584.6 | 24488.3 | 24377.4 | 28285.6 |
| 60° | 28230.1 | 28290.7 | 27894.8 | 25131.3 | 26452.5 | 28991.6 | 29687.5 | 29064.7 | 26235.7 | 26185.2 | 29153.0 |
| 62.5° | 27620.0 | 27960.3 | 28227.6 | 26702.1 | 27849.4 | 30232.2 | 30923.0 | 30212.0 | 28058.7 | 28424.3 | 29760.7 |
| 65° | 26404.6 | 26477.7 | 27388.0 | 28033.5 | 28522.6 | 30436.4 | 30797.0 | 30418.8 | 29581.6 | 30464.1 | 29732.9 |
| 67.5° | 24826.2 | 24889.2 | 25955.8 | 28469.7 | 27655.3 | 28116.7 | 28368.8 | 28257.9 | 29110.1 | 31162.6 | 28363.8 |
| 70° | 23323.4 | 23273.0 | 24400.1 | 27357.7 | 24074.8 | 23373.8 | 23583.1 | 23235.2 | 25118.7 | 29455.6 | 25678.4 |
| 72.5° | 20398.5 | 20580.1 | 21790.4 | 24266.4 | 19062.2 | 17922.5 | 18378.8 | 17478.7 | 19319.3 | 25227.1 | 20842.3 |
| 75° | 15978.4 | 16021.3 | 18041.0 | 20365.7 | 14379.8 | 12582.0 | 13199.8 | 12824.1 | 14798.4 | 21044.0 | 14392.4 |
| 77.5° | 11064.1 | 10968.3 | 13139.3 | 15554.8 | 10254.7 | 9210.9 | 9220.9 | 9041.9 | 10332.9 | 15494.3 | 9778.2 |
| 80° | 7027.3 | 6881.0 | 8225.0 | 9609.2 | 7047.4 | 7539.1 | 7292.0 | 7284.5 | 6727.2 | 9558.8 | 5912.8 |
| 82.5° | 3797.3 | 3958.7 | 5196.7 | 6023.7 | 5055.5 | 5827.1 | 5340.4 | 5184.1 | 4616.8 | 5983.4 | 3782.2 |
| 85° | 1729.7 | 1881.0 | 2771.1 | 4097.4 | 3840.2 | 3883.0 | 2594.6 | 3061.0 | 3820.0 | 4858.8 | 2019.7 |
| 87.5° | 168.9 | 216.8 | 572.4 | 1934.0 | 1311.2 | 1033.8 | 385.8 | 743.8 | 960.7 | 1727.2 | 161.4 |
| 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-SA7C-735-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 |
| 2.5° | 13056.1 | 12924.9 | 12478.7 | 12110.5 | 11719.7 | 11422.2 | 11033.9 | 10774.2 | 10595.1 | 10325.3 | 10292.6 |
| 5° | 12456.0 | 12135.7 | 11359.1 | 10567.4 | 9884.1 | 9369.7 | 8847.8 | 8368.7 | 8086.3 | 7998.0 | 7884.6 |
| 7.5° | 11444.9 | 10905.3 | 9906.8 | 8999.1 | 8214.9 | 7448.4 | 6858.3 | 6439.8 | 6159.9 | 5996.0 | 5799.3 |
| 10° | 10612.8 | 9987.5 | 8772.1 | 7660.2 | 7014.7 | 6538.1 | 6018.7 | 5569.9 | 5224.4 | 4929.4 | 4768.1 |
| 12.5° | 10053.0 | 9347.0 | 7980.4 | 7077.7 | 6578.5 | 6071.6 | 5464.0 | 4959.7 | 4450.4 | 4115.0 | 3971.3 |
| 15° | 9884.1 | 9137.7 | 7735.8 | 6787.7 | 6071.6 | 5408.5 | 4727.7 | 4069.6 | 3565.3 | 3247.6 | 3141.7 |
| 17.5° | 10297.6 | 9394.9 | 7733.3 | 6402.0 | 5476.6 | 4684.9 | 3812.4 | 3194.7 | 2677.8 | 2440.8 | 2365.1 |
| 20° | 11069.2 | 9889.1 | 7756.0 | 6021.2 | 4831.1 | 3716.6 | 2773.6 | 2266.8 | 2019.7 | 1918.8 | 1881.0 |
| 22.5° | 12145.8 | 10643.0 | 7824.1 | 5645.5 | 4125.1 | 2854.3 | 2077.7 | 1820.5 | 1732.2 | 1714.6 | 1707.0 |
| 25° | 13472.1 | 11576.0 | 8053.5 | 5307.6 | 3530.0 | 2178.5 | 1737.3 | 1621.3 | 1570.9 | 1553.2 | 1550.7 |
| 27.5° | 14692.5 | 12781.2 | 8330.9 | 5017.7 | 2955.1 | 1878.5 | 1570.9 | 1472.5 | 1422.1 | 1419.6 | 1424.6 |
| 30° | 15794.4 | 13789.8 | 8562.8 | 4692.4 | 2518.9 | 1669.2 | 1462.4 | 1364.1 | 1316.2 | 1313.7 | 1328.8 |
| 32.5° | 16747.5 | 14619.4 | 8734.3 | 4372.2 | 2276.9 | 1540.6 | 1364.1 | 1258.2 | 1217.9 | 1210.3 | 1217.9 |
| 35° | 17766.1 | 15446.4 | 8656.1 | 4122.6 | 2138.2 | 1434.7 | 1291.0 | 1187.6 | 1139.7 | 1117.0 | 1117.0 |
| 37.5° | 18928.5 | 16298.6 | 8522.5 | 3915.8 | 2075.2 | 1346.5 | 1227.9 | 1127.1 | 1079.2 | 1056.5 | 1054.0 |
| 40° | 20196.8 | 17150.9 | 8338.4 | 3731.7 | 2012.1 | 1293.5 | 1185.1 | 1079.2 | 1021.2 | 998.5 | 993.5 |
| 42.5° | 21316.3 | 17879.6 | 8187.1 | 3610.7 | 1908.7 | 1303.6 | 1147.3 | 1043.9 | 970.8 | 940.5 | 938.0 |
| 45° | 22289.6 | 18613.3 | 8159.4 | 3540.1 | 1823.0 | 1288.5 | 1137.2 | 1016.1 | 930.4 | 897.6 | 892.6 |
| 47.5° | 23051.1 | 19377.3 | 8318.3 | 3499.8 | 1729.7 | 1207.8 | 1202.7 | 998.5 | 895.1 | 859.8 | 854.8 |
| 50° | 23979.0 | 20461.6 | 8681.3 | 3416.6 | 1644.0 | 1132.1 | 1270.8 | 996.0 | 867.4 | 822.0 | 809.4 |
| 52.5° | 25214.5 | 21873.6 | 9173.0 | 3267.8 | 1520.4 | 1061.5 | 1212.8 | 996.0 | 834.6 | 789.2 | 774.1 |
| 55° | 27082.9 | 23673.9 | 9654.6 | 3058.5 | 1346.5 | 968.2 | 1094.3 | 965.7 | 786.7 | 746.3 | 736.3 |
| 57.5° | 28320.9 | 24990.1 | 9962.2 | 2768.6 | 1129.6 | 900.2 | 943.0 | 917.8 | 738.8 | 695.9 | 695.9 |
| 60° | 28383.9 | 25343.1 | 9816.0 | 2402.9 | 993.5 | 837.1 | 819.5 | 925.4 | 695.9 | 650.5 | 645.5 |
| 62.5° | 27657.8 | 24478.2 | 9054.5 | 2075.2 | 920.3 | 769.0 | 741.3 | 811.9 | 653.1 | 607.7 | 600.1 |
| 65° | 26523.1 | 22272.0 | 7733.3 | 1918.8 | 880.0 | 708.5 | 668.2 | 665.7 | 607.7 | 564.8 | 554.7 |
| 67.5° | 24437.9 | 19463.1 | 6354.1 | 1828.1 | 859.8 | 640.4 | 602.6 | 590.0 | 554.7 | 519.4 | 514.4 |
| 70° | 21364.2 | 16301.2 | 5095.8 | 1790.2 | 849.7 | 569.8 | 539.6 | 524.5 | 494.2 | 466.5 | 463.9 |
| 72.5° | 16621.4 | 13222.5 | 4205.8 | 1765.0 | 844.7 | 504.3 | 471.5 | 451.3 | 433.7 | 408.5 | 408.5 |
| 75° | 11939.1 | 9727.7 | 3209.8 | 1591.0 | 781.6 | 433.7 | 398.4 | 385.8 | 360.6 | 340.4 | 345.4 |
| 77.5° | 7526.5 | 6550.7 | 2113.0 | 1170.0 | 605.1 | 348.0 | 317.7 | 310.1 | 290.0 | 262.2 | 279.9 |
| 80° | 5083.2 | 4606.7 | 1233.0 | 736.3 | 380.7 | 254.7 | 244.6 | 242.1 | 219.4 | 189.1 | 191.6 |
| 82.5° | 3459.4 | 3393.9 | 640.4 | 418.6 | 219.4 | 148.8 | 143.7 | 148.8 | 123.6 | 100.9 | 100.9 |
| 85° | 1351.5 | 1845.7 | 302.6 | 163.9 | 70.6 | 22.7 | 32.8 | 35.3 | 20.2 | 10.1 | 12.6 |
| 87.5° | 25.2 | 189.1 | 7.6 | 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° | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 |
| 2.5° | 10242.1 | 10219.4 | 10257.3 | 10095.9 | 10128.7 | 10189.2 | 10219.4 | 10237.1 | 10486.7 | 10428.7 | 10587.6 |
| 5° | 7990.5 | 7967.8 | 8114.0 | 8134.2 | 8209.8 | 8194.7 | 8267.8 | 8285.5 | 8376.3 | 8409.0 | 8630.9 |
| 7.5° | 5811.9 | 5910.3 | 6076.7 | 6162.4 | 6291.0 | 6331.4 | 6293.5 | 6386.8 | 6197.7 | 6333.9 | 6374.2 |
| 10° | 4669.7 | 4551.2 | 4480.6 | 4677.3 | 4702.5 | 4889.1 | 4813.4 | 4752.9 | 4863.9 | 4868.9 | 4974.8 |
| 12.5° | 3888.1 | 3633.4 | 3464.5 | 3519.9 | 3580.5 | 3661.1 | 3673.8 | 3794.8 | 3875.5 | 3951.1 | 4014.1 |
| 15° | 3048.4 | 2960.2 | 2806.4 | 2730.7 | 2816.5 | 2849.2 | 2927.4 | 3028.3 | 3114.0 | 3136.7 | 3222.4 |
| 17.5° | 2339.9 | 2355.0 | 2329.8 | 2284.4 | 2337.4 | 2362.6 | 2367.6 | 2370.2 | 2392.9 | 2377.7 | 2503.8 |
| 20° | 1883.5 | 1936.5 | 1999.5 | 2009.6 | 2027.2 | 2039.9 | 2017.2 | 1931.4 | 1934.0 | 1986.9 | 2027.2 |
| 22.5° | 1704.5 | 1714.6 | 1785.2 | 1807.9 | 1863.4 | 1840.7 | 1775.1 | 1734.8 | 1729.7 | 1742.3 | 1762.5 |
| 25° | 1563.3 | 1578.4 | 1628.9 | 1664.2 | 1707.0 | 1666.7 | 1618.8 | 1580.9 | 1575.9 | 1588.5 | 1608.7 |
| 27.5° | 1437.2 | 1459.9 | 1505.3 | 1540.6 | 1580.9 | 1543.1 | 1497.7 | 1465.0 | 1462.4 | 1459.9 | 1472.5 |
| 30° | 1336.4 | 1361.6 | 1394.4 | 1434.7 | 1462.4 | 1429.7 | 1386.8 | 1369.1 | 1366.6 | 1361.6 | 1366.6 |
| 32.5° | 1235.5 | 1275.9 | 1308.6 | 1328.8 | 1356.5 | 1331.3 | 1298.5 | 1288.5 | 1270.8 | 1255.7 | 1248.1 |
| 35° | 1122.0 | 1164.9 | 1215.3 | 1240.6 | 1268.3 | 1243.1 | 1220.4 | 1177.5 | 1147.3 | 1144.7 | 1149.8 |
| 37.5° | 1056.5 | 1074.1 | 1114.5 | 1157.3 | 1185.1 | 1172.5 | 1129.6 | 1086.7 | 1079.2 | 1079.2 | 1084.2 |
| 40° | 998.5 | 1006.1 | 1023.7 | 1079.2 | 1129.6 | 1091.8 | 1038.8 | 1026.2 | 1026.2 | 1023.7 | 1026.2 |
| 42.5° | 940.5 | 948.1 | 948.1 | 990.9 | 1071.6 | 1011.1 | 970.8 | 970.8 | 970.8 | 973.3 | 980.8 |
| 45° | 887.5 | 890.1 | 887.5 | 917.8 | 993.5 | 943.0 | 915.3 | 922.9 | 927.9 | 932.9 | 938.0 |
| 47.5° | 842.2 | 844.7 | 842.2 | 867.4 | 905.2 | 885.0 | 869.9 | 880.0 | 890.1 | 897.6 | 902.7 |
| 50° | 801.8 | 799.3 | 804.3 | 819.5 | 837.1 | 842.2 | 832.1 | 847.2 | 852.2 | 862.3 | 874.9 |
| 52.5° | 766.5 | 764.0 | 769.0 | 776.6 | 801.8 | 801.8 | 801.8 | 814.4 | 824.5 | 834.6 | 852.2 |
| 55° | 726.2 | 728.7 | 736.3 | 746.3 | 779.1 | 774.1 | 776.6 | 786.7 | 796.8 | 811.9 | 822.0 |
| 57.5° | 688.4 | 693.4 | 703.5 | 718.6 | 751.4 | 748.9 | 751.4 | 756.4 | 769.0 | 776.6 | 786.7 |
| 60° | 645.5 | 655.6 | 668.2 | 678.3 | 711.0 | 708.5 | 721.1 | 731.2 | 738.8 | 738.8 | 743.8 |
| 62.5° | 602.6 | 617.8 | 630.4 | 637.9 | 673.2 | 675.7 | 693.4 | 701.0 | 706.0 | 701.0 | 708.5 |
| 65° | 559.8 | 582.5 | 587.5 | 597.6 | 632.9 | 635.4 | 655.6 | 673.2 | 668.2 | 663.1 | 675.7 |
| 67.5° | 516.9 | 544.6 | 542.1 | 554.7 | 590.0 | 595.1 | 612.7 | 643.0 | 632.9 | 627.8 | 637.9 |
| 70° | 469.0 | 489.2 | 491.7 | 499.2 | 547.2 | 539.6 | 567.3 | 595.1 | 587.5 | 590.0 | 590.0 |
| 72.5° | 416.0 | 433.7 | 433.7 | 448.8 | 499.2 | 486.6 | 509.3 | 539.6 | 539.6 | 537.1 | 537.1 |
| 75° | 353.0 | 363.1 | 373.2 | 395.9 | 448.8 | 433.7 | 448.8 | 476.6 | 481.6 | 476.6 | 476.6 |
| 77.5° | 284.9 | 300.1 | 305.1 | 335.4 | 373.2 | 370.7 | 385.8 | 398.4 | 408.5 | 403.4 | 403.4 |
| 80° | 201.7 | 216.8 | 237.0 | 269.8 | 292.5 | 300.1 | 307.6 | 317.7 | 322.7 | 322.7 | 327.8 |
| 82.5° | 113.5 | 136.2 | 153.8 | 186.6 | 196.7 | 234.5 | 232.0 | 239.5 | 232.0 | 204.2 | 226.9 |
| 85° | 25.2 | 47.9 | 68.1 | 85.7 | 98.3 | 136.2 | 143.7 | 161.4 | 133.6 | 123.6 | 123.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.2 | 40.3 | 55.5 | 47.9 | 40.3 | 40.3 |
| 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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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 | 12284.5 |
| 2.5° | 10721.2 | 10940.6 | 11205.3 | 11661.7 | 11981.9 | 12327.4 | 12675.3 | 13046.0 | 13144.3 | 13245.2 |
| 5° | 8691.4 | 9122.6 | 9357.1 | 9969.8 | 10612.8 | 11429.7 | 12097.9 | 12829.1 | 13134.2 | 13204.8 |
| 7.5° | 6583.5 | 6876.0 | 7491.2 | 8111.5 | 8908.3 | 9765.6 | 10789.3 | 11929.0 | 12284.5 | 12433.3 |
| 10° | 5219.4 | 5617.8 | 6157.4 | 6823.0 | 7521.5 | 8444.3 | 9599.2 | 10930.5 | 11434.8 | 11518.0 |
| 12.5° | 4442.8 | 4886.6 | 5474.1 | 6177.5 | 6838.2 | 7534.1 | 8699.0 | 10073.2 | 10612.8 | 10791.8 |
| 15° | 3552.7 | 4089.8 | 4768.1 | 5509.4 | 6228.0 | 6989.5 | 8169.5 | 9720.2 | 10343.0 | 10552.3 |
| 17.5° | 2791.2 | 3224.9 | 3958.7 | 4763.0 | 5615.3 | 6578.5 | 8058.6 | 9889.1 | 10655.6 | 10849.8 |
| 20° | 2135.7 | 2445.8 | 3063.6 | 3913.3 | 4911.8 | 6172.5 | 8086.3 | 10527.0 | 11444.9 | 11709.6 |
| 22.5° | 1845.7 | 2004.6 | 2380.2 | 3189.6 | 4306.6 | 5819.5 | 8199.8 | 11402.0 | 12508.9 | 12950.2 |
| 25° | 1671.7 | 1754.9 | 1966.7 | 2496.2 | 3729.2 | 5476.6 | 8459.5 | 12579.5 | 13996.6 | 14289.1 |
| 27.5° | 1523.0 | 1583.5 | 1714.6 | 2095.3 | 3204.8 | 5158.9 | 8762.0 | 13885.6 | 15385.9 | 15822.1 |
| 30° | 1381.8 | 1462.4 | 1586.0 | 1860.8 | 2869.4 | 4868.9 | 9142.8 | 14944.6 | 16555.8 | 16961.8 |
| 32.5° | 1273.3 | 1354.0 | 1467.5 | 1696.9 | 2584.5 | 4563.8 | 9369.7 | 15875.0 | 17511.5 | 17856.9 |
| 35° | 1185.1 | 1253.2 | 1371.7 | 1565.8 | 2367.6 | 4331.8 | 9324.3 | 16613.8 | 18436.8 | 18789.8 |
| 37.5° | 1122.0 | 1180.0 | 1298.5 | 1442.3 | 2203.7 | 4089.8 | 9301.6 | 17589.6 | 19563.9 | 19972.4 |
| 40° | 1064.1 | 1124.6 | 1233.0 | 1361.6 | 2039.9 | 3804.9 | 9314.2 | 18557.9 | 20764.1 | 21172.6 |
| 42.5° | 1018.7 | 1086.7 | 1175.0 | 1338.9 | 1870.9 | 3575.4 | 9314.2 | 19400.0 | 21808.0 | 22201.4 |
| 45° | 980.8 | 1054.0 | 1139.7 | 1336.4 | 1737.3 | 3401.4 | 9251.2 | 20123.7 | 22640.1 | 22975.4 |
| 47.5° | 948.1 | 1028.8 | 1152.3 | 1291.0 | 1704.5 | 3275.4 | 9195.7 | 20703.6 | 23318.4 | 23633.5 |
| 50° | 925.4 | 1021.2 | 1225.4 | 1238.0 | 1714.6 | 3237.5 | 9463.0 | 21434.8 | 23915.9 | 24188.3 |
| 52.5° | 907.7 | 1023.7 | 1222.9 | 1159.9 | 1696.9 | 3262.8 | 10020.2 | 22577.1 | 24745.5 | 24765.7 |
| 55° | 872.4 | 1021.2 | 1159.9 | 1071.6 | 1623.8 | 3305.6 | 10736.3 | 24236.2 | 26044.0 | 26059.2 |
| 57.5° | 837.1 | 993.5 | 1076.7 | 996.0 | 1475.0 | 3305.6 | 11598.7 | 25807.0 | 27609.9 | 27622.5 |
| 60° | 801.8 | 1033.8 | 945.5 | 930.4 | 1280.9 | 3245.1 | 12508.9 | 26497.9 | 28101.5 | 28230.1 |
| 62.5° | 766.5 | 1041.4 | 844.7 | 872.4 | 1139.7 | 3098.9 | 13187.2 | 25733.9 | 27435.9 | 27620.0 |
| 65° | 726.2 | 839.6 | 779.1 | 811.9 | 1066.6 | 2854.3 | 12972.9 | 24334.5 | 26185.2 | 26404.6 |
| 67.5° | 678.3 | 711.0 | 708.5 | 748.9 | 1041.4 | 2493.7 | 11843.2 | 22564.4 | 24838.8 | 24826.2 |
| 70° | 620.3 | 637.9 | 645.5 | 688.4 | 993.5 | 2213.8 | 9869.0 | 20267.4 | 23041.0 | 23323.4 |
| 72.5° | 559.8 | 574.9 | 582.5 | 620.3 | 945.5 | 2055.0 | 7660.2 | 17103.0 | 19957.3 | 20398.5 |
| 75° | 494.2 | 504.3 | 514.4 | 547.2 | 895.1 | 1820.5 | 5456.4 | 13056.1 | 15285.0 | 15978.4 |
| 77.5° | 426.1 | 426.1 | 438.7 | 471.5 | 753.9 | 1502.8 | 3661.1 | 9157.9 | 10355.6 | 11064.1 |
| 80° | 345.4 | 348.0 | 342.9 | 378.2 | 554.7 | 1028.8 | 2080.2 | 6117.0 | 6891.1 | 7027.3 |
| 82.5° | 264.8 | 257.2 | 259.7 | 277.4 | 413.5 | 701.0 | 1109.4 | 3799.8 | 3872.9 | 3797.3 |
| 85° | 166.4 | 166.4 | 161.4 | 181.5 | 264.8 | 365.6 | 605.1 | 2327.3 | 1818.0 | 1729.7 |
| 87.5° | 68.1 | 55.5 | 63.0 | 73.1 | 126.1 | 148.8 | 237.0 | 479.1 | 184.1 | 168.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)