

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: P457684

Luminaire Tested: **GLAN-SA9A-740-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457684
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-SA9A-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA 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: 29773 lumens
Efficiency: N/A
Efficacy: 108.7 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

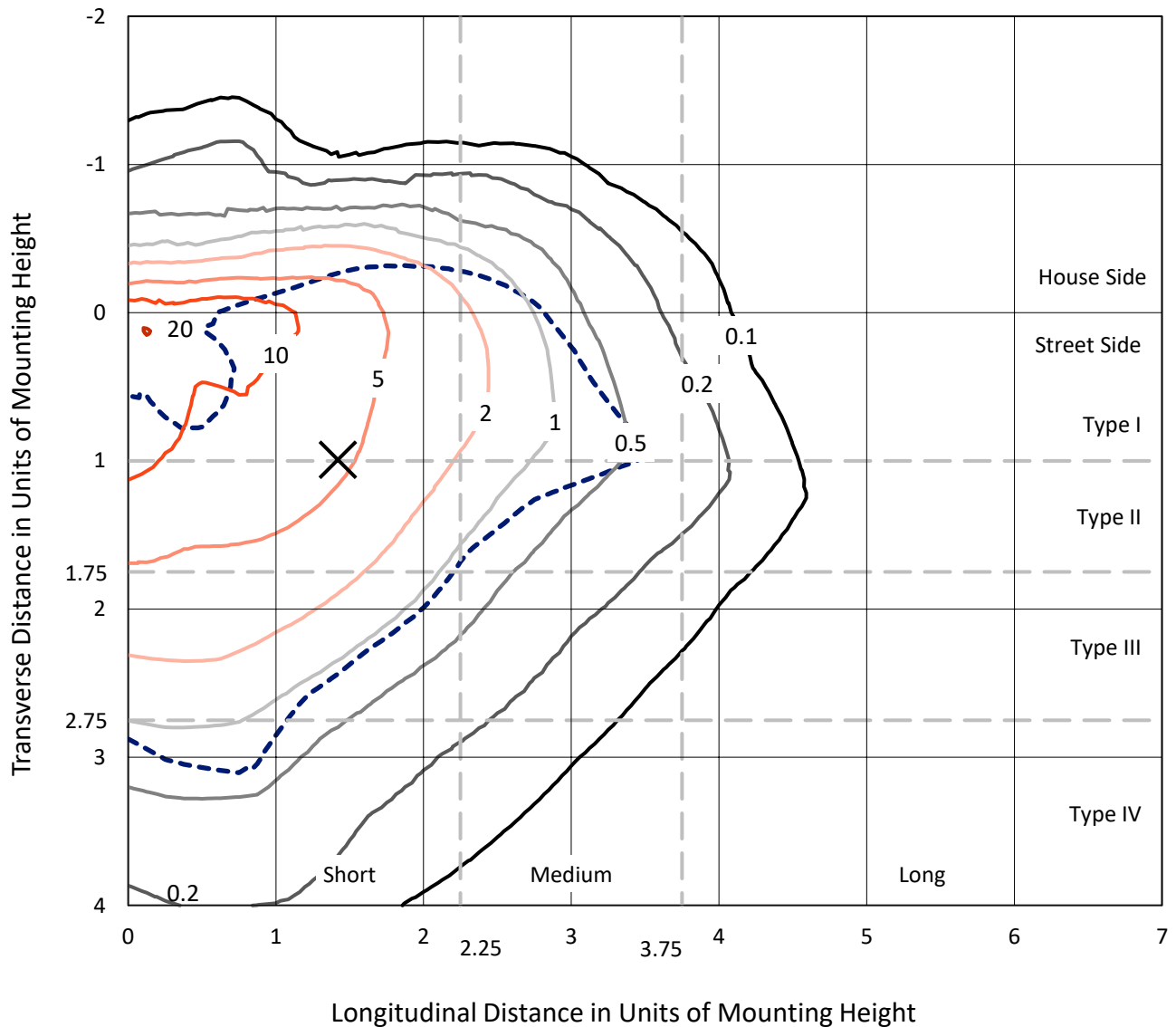
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

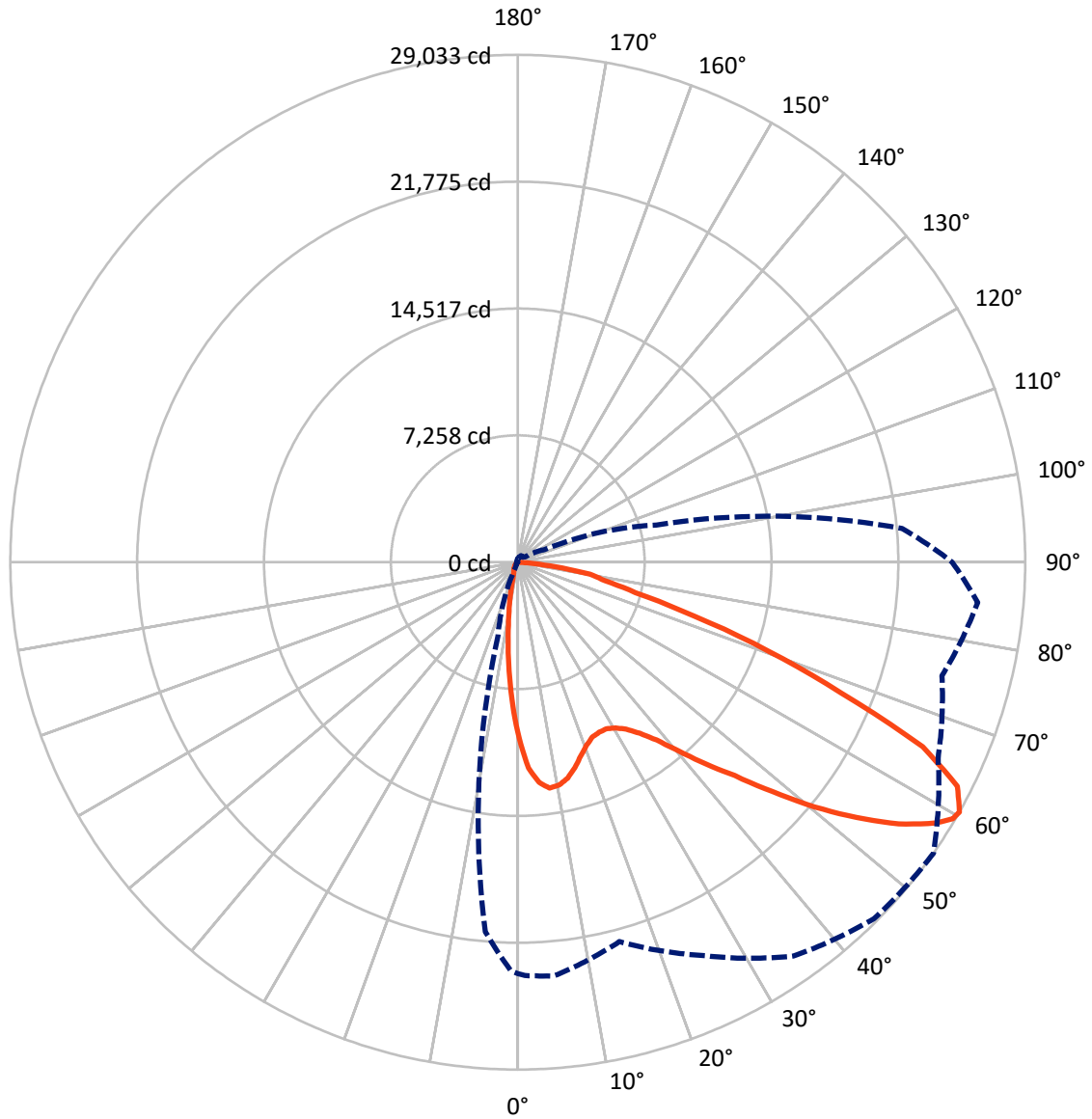
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 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 | 4418.6 | 0.0 | 4418.6 |
| | % Fixture | 14.8 | 0.0 | 14.8 |
| Street Side | Lumens | 25354.4 | 0.0 | 25354.4 |
| | % Fixture | 85.2 | 0.0 | 85.2 |
| Total | Lumens | 29773.0 | 0.0 | 29773.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 746.5 | 2.5 |
| 10°-20° | 1470.1 | 4.9 |
| 20°-30° | 2176.0 | 7.3 |
| 30°-40° | 3243.5 | 10.9 |
| 40°-50° | 4750.1 | 16.0 |
| 50°-60° | 6857.7 | 23.0 |
| 60°-70° | 7214.0 | 24.2 |
| 70°-80° | 2967.6 | 10.0 |
| 80°-90° | 347.6 | 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° | 29773.0 | 100.0 |
| 0°-180° | 29773.0 | 100.0 |

Coefficient of Utilization



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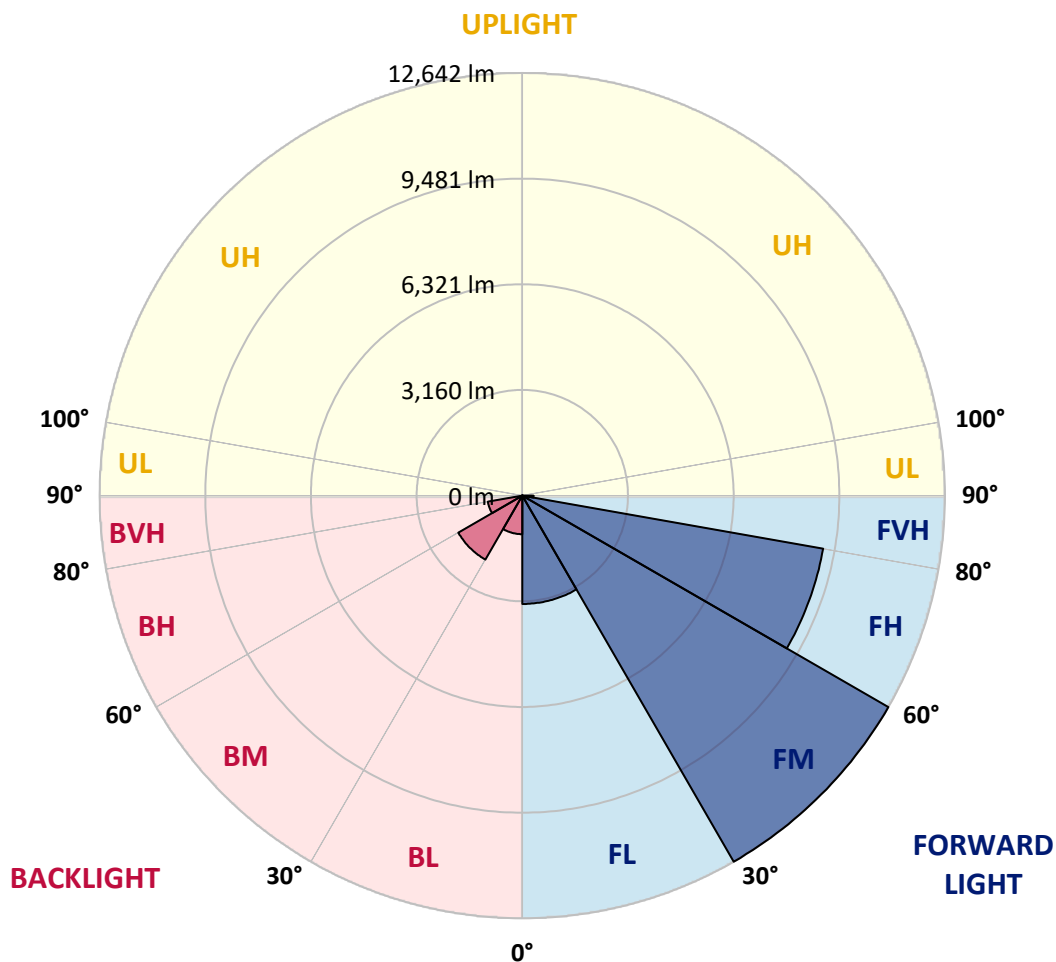
CATALOG NUMBER: GLAN-SA9A-740-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 3239.7 | 10.9 | | | |
| FM | (30°-60°) | 12641.7 | 42.5 | | | |
| FH | (60°-80°) | 9135.7 | 30.7 | | | G4/12000 |
| FVH | (80°-90°) | 337.3 | 1.1 | | | G3/500 |
| BL | (0°-30°) | 1152.8 | 3.9 | B3/2500 | | |
| BM | (30°-60°) | 2209.7 | 7.4 | B2/2500 | | |
| BH | (60°-80°) | 1045.8 | 3.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 10.2 | 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: P457684

CATALOG NUMBER: GLAN-SA9A-740-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10081.1 | 10081.1 | 10081.1 | 10081.1 | 10081.1 | 10081.1 | 10081.1 | 10081.1 | 10081.1 | 10081.1 | 10081.1 |
| 2.5° | 11013.8 | 10995.4 | 11158.1 | 11424.0 | 11692.1 | 11831.9 | 11804.4 | 11792.9 | 11570.6 | 11407.9 | 11066.5 |
| 5° | 10990.8 | 11084.8 | 11375.8 | 12095.4 | 12640.9 | 12904.4 | 12982.3 | 12654.6 | 12221.5 | 11593.6 | 10819.0 |
| 7.5° | 10333.1 | 10450.0 | 10924.4 | 12049.6 | 13019.0 | 13591.9 | 13571.3 | 13046.5 | 12152.7 | 11181.1 | 10076.5 |
| 10° | 9517.3 | 9654.8 | 10211.7 | 11577.5 | 12835.6 | 13591.9 | 13633.1 | 12968.6 | 11857.1 | 10610.4 | 9448.6 |
| 12.5° | 8942.1 | 9104.8 | 9721.3 | 11137.5 | 12363.6 | 13108.4 | 13156.5 | 12675.2 | 11634.8 | 10390.4 | 9107.1 |
| 15° | 8747.3 | 8900.8 | 9526.5 | 10915.2 | 11861.7 | 12262.7 | 12251.3 | 12200.9 | 11547.7 | 10443.1 | 9125.4 |
| 17.5° | 9081.9 | 9207.9 | 9913.8 | 11016.1 | 11391.9 | 11350.6 | 11410.2 | 11653.1 | 11566.1 | 10885.4 | 9702.9 |
| 20° | 9945.8 | 10074.2 | 10832.7 | 11325.4 | 11032.1 | 10770.8 | 10798.3 | 11204.0 | 11735.6 | 11717.3 | 10605.8 |
| 22.5° | 11135.2 | 11352.9 | 12040.4 | 11925.8 | 10984.0 | 10411.1 | 10353.8 | 10880.8 | 12024.4 | 12675.2 | 11825.0 |
| 25° | 12640.9 | 12860.9 | 13397.1 | 12883.8 | 11220.0 | 10326.3 | 10273.6 | 10782.3 | 12375.0 | 13610.2 | 13197.7 |
| 27.5° | 13905.9 | 14073.1 | 14607.1 | 13816.5 | 11568.3 | 10362.9 | 10275.8 | 10796.1 | 12659.2 | 14405.4 | 14355.0 |
| 30° | 14918.8 | 15042.5 | 15356.5 | 14251.9 | 11868.6 | 10523.3 | 10422.5 | 10997.7 | 12785.2 | 14792.7 | 15292.3 |
| 32.5° | 15734.6 | 15943.1 | 16041.7 | 14717.1 | 12299.4 | 10825.8 | 10654.0 | 11385.0 | 13092.3 | 15271.7 | 16275.4 |
| 35° | 16667.3 | 16907.9 | 16781.9 | 15161.7 | 12867.7 | 11297.9 | 11087.1 | 12012.9 | 13557.5 | 15714.0 | 17416.7 |
| 37.5° | 17849.8 | 18127.1 | 17634.4 | 15629.2 | 13468.1 | 12008.3 | 11909.8 | 12895.2 | 14263.4 | 16346.5 | 18640.4 |
| 40° | 19073.6 | 19234.0 | 18461.7 | 16197.5 | 14206.1 | 13041.9 | 13135.9 | 14206.1 | 15186.9 | 17105.0 | 19942.1 |
| 42.5° | 20029.2 | 20180.4 | 19311.9 | 16674.2 | 14960.0 | 14267.9 | 14659.8 | 15787.3 | 16245.6 | 17881.9 | 20913.8 |
| 45° | 20760.2 | 20888.6 | 19900.9 | 17194.4 | 15977.5 | 16044.0 | 16784.2 | 17416.7 | 17306.7 | 18356.3 | 21663.2 |
| 47.5° | 21328.6 | 21438.6 | 20354.6 | 17753.6 | 17501.5 | 18216.5 | 19348.6 | 19616.7 | 18406.7 | 18869.6 | 22341.5 |
| 50° | 21562.3 | 21594.4 | 20496.7 | 18466.3 | 19231.7 | 20984.8 | 22165.0 | 22002.3 | 19667.1 | 19440.2 | 23063.4 |
| 52.5° | 21867.1 | 21860.2 | 20902.3 | 19144.6 | 20858.8 | 23459.8 | 24637.7 | 24268.8 | 21092.5 | 20295.0 | 23874.6 |
| 55° | 22666.9 | 22676.1 | 21770.9 | 20107.1 | 22245.2 | 25458.2 | 26718.6 | 26450.5 | 22595.9 | 21738.8 | 24821.1 |
| 57.5° | 23638.6 | 23672.9 | 23006.1 | 21232.3 | 23569.8 | 26906.5 | 28272.3 | 28169.2 | 24628.6 | 23345.2 | 25714.8 |
| 59° | 23764.6 | 23833.4 | 23590.4 | 22025.2 | 24355.9 | 27351.1 | 28804.0 | 28904.8 | 25717.1 | 24404.0 | 26198.4 |
| 60° | 23535.4 | 23650.0 | 23760.0 | 22474.4 | 24816.5 | 27511.5 | 28836.1 | 29033.2 | 26535.2 | 25123.6 | 26418.4 |
| 62.5° | 22536.3 | 22717.3 | 23269.6 | 23856.3 | 25391.7 | 27011.9 | 27811.7 | 28224.2 | 27548.2 | 27014.2 | 26439.0 |
| 65° | 21227.7 | 21321.7 | 22119.2 | 24101.5 | 24275.7 | 24679.0 | 24926.5 | 25455.9 | 26331.3 | 27743.0 | 25492.5 |
| 67.5° | 19082.7 | 19360.0 | 20336.3 | 22678.4 | 20982.5 | 20505.9 | 20444.0 | 19916.9 | 22190.2 | 26005.9 | 23159.6 |
| 70° | 15764.4 | 15888.1 | 17091.3 | 18592.3 | 15835.4 | 15102.1 | 15395.4 | 15198.4 | 17201.3 | 22387.3 | 18640.4 |
| 72.5° | 11921.3 | 12200.9 | 13376.5 | 14820.2 | 10775.4 | 9824.4 | 10633.3 | 10560.0 | 12920.4 | 17991.9 | 12805.9 |
| 75° | 8481.5 | 8662.5 | 10161.3 | 11598.1 | 7546.5 | 6393.8 | 6684.8 | 6957.5 | 9020.0 | 14206.1 | 7567.1 |
| 77.5° | 5827.7 | 5983.5 | 7108.8 | 7670.2 | 5504.6 | 5273.1 | 4824.0 | 5087.5 | 5910.2 | 8428.8 | 4118.1 |
| 80° | 3515.4 | 3508.5 | 4248.8 | 4386.3 | 3834.0 | 4452.7 | 3735.4 | 4193.8 | 3572.7 | 3607.1 | 1595.0 |
| 82.5° | 2282.5 | 2259.6 | 2598.8 | 2832.5 | 2133.5 | 2243.5 | 1505.6 | 2170.2 | 2328.3 | 1006.0 | 504.2 |
| 85° | 1022.1 | 1065.6 | 1249.0 | 1647.7 | 935.0 | 497.3 | 307.1 | 666.9 | 992.3 | 506.5 | 0.0 |
| 87.5° | 105.4 | 82.5 | 220.0 | 401.0 | 128.3 | 13.8 | 45.8 | 22.9 | 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-SA9A-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10081.1 | 10081.1 | 10081.1 | 10081.1 | 10081.1 | 10081.1 | 10081.1 | 10081.1 | 10081.1 | 10081.1 | 10081.1 |
| 2.5° | 10908.3 | 10775.4 | 10379.0 | 10007.7 | 9689.2 | 9299.6 | 9047.5 | 8651.1 | 8410.4 | 8337.1 | 8348.6 |
| 5° | 10470.6 | 10087.9 | 9334.0 | 8731.3 | 8059.8 | 7677.1 | 7095.0 | 6535.8 | 6233.3 | 6121.1 | 6070.6 |
| 7.5° | 9554.0 | 9143.8 | 8234.0 | 7287.5 | 6567.9 | 5896.5 | 5463.3 | 4970.6 | 4633.8 | 4356.5 | 4308.3 |
| 10° | 8873.3 | 8334.8 | 7207.3 | 6189.8 | 5621.5 | 5117.3 | 4684.2 | 4191.5 | 3795.0 | 3478.8 | 3391.7 |
| 12.5° | 8465.4 | 7862.7 | 6604.6 | 5752.1 | 5213.5 | 4695.6 | 4131.9 | 3561.3 | 3155.6 | 2814.2 | 2656.0 |
| 15° | 8392.1 | 7693.1 | 6435.0 | 5438.1 | 4773.5 | 4147.9 | 3398.5 | 2782.1 | 2365.0 | 2041.9 | 1943.3 |
| 17.5° | 8834.4 | 7997.9 | 6409.8 | 5110.4 | 4198.3 | 3311.5 | 2532.3 | 2021.3 | 1551.5 | 1370.4 | 1299.4 |
| 20° | 9622.7 | 8536.5 | 6407.5 | 4730.0 | 3607.1 | 2550.6 | 1778.3 | 1317.7 | 1127.5 | 1040.4 | 999.2 |
| 22.5° | 10697.5 | 9269.8 | 6529.0 | 4402.3 | 2992.9 | 1881.5 | 1269.6 | 1049.6 | 939.6 | 868.5 | 852.5 |
| 25° | 12010.6 | 10356.1 | 6826.9 | 4180.0 | 2523.1 | 1475.8 | 1047.3 | 898.3 | 806.7 | 774.6 | 760.8 |
| 27.5° | 13177.1 | 11396.5 | 7154.6 | 3950.8 | 2186.3 | 1306.3 | 971.7 | 822.7 | 749.4 | 724.2 | 703.5 |
| 30° | 14183.1 | 12340.6 | 7312.7 | 3648.3 | 1915.8 | 1196.3 | 985.4 | 880.0 | 783.8 | 708.1 | 673.8 |
| 32.5° | 15021.9 | 13064.8 | 7415.8 | 3373.3 | 1686.7 | 978.5 | 779.2 | 680.6 | 637.1 | 609.6 | 586.7 |
| 35° | 16071.5 | 13848.6 | 7354.0 | 3217.5 | 1569.8 | 891.5 | 710.4 | 586.7 | 513.3 | 458.3 | 435.4 |
| 37.5° | 17171.5 | 14632.3 | 7246.3 | 3089.2 | 1517.1 | 827.3 | 676.0 | 556.9 | 476.7 | 419.4 | 389.6 |
| 40° | 18310.4 | 15358.8 | 7120.2 | 2970.0 | 1469.0 | 786.0 | 655.4 | 531.7 | 451.5 | 389.6 | 357.5 |
| 42.5° | 19353.2 | 16066.9 | 7069.8 | 2892.1 | 1391.0 | 792.9 | 639.4 | 520.2 | 426.3 | 362.1 | 334.6 |
| 45° | 20196.5 | 16738.4 | 7138.6 | 2850.8 | 1306.3 | 781.5 | 644.0 | 506.5 | 405.6 | 343.8 | 316.3 |
| 47.5° | 21097.1 | 17687.1 | 7360.8 | 2809.6 | 1223.8 | 726.5 | 678.3 | 504.2 | 396.5 | 332.3 | 302.5 |
| 50° | 22144.4 | 18901.7 | 7869.6 | 2708.8 | 1122.9 | 666.9 | 721.9 | 501.9 | 385.0 | 318.5 | 288.8 |
| 52.5° | 23540.0 | 20281.3 | 8394.4 | 2532.3 | 976.3 | 609.6 | 689.8 | 495.0 | 362.1 | 302.5 | 272.7 |
| 55° | 24793.6 | 21734.2 | 8839.0 | 2323.8 | 790.6 | 527.1 | 621.0 | 465.2 | 323.1 | 275.0 | 247.5 |
| 57.5° | 25311.5 | 22554.6 | 8825.2 | 2035.0 | 632.5 | 462.9 | 511.0 | 426.3 | 281.9 | 242.9 | 220.0 |
| 59° | 25121.3 | 22451.5 | 8529.6 | 1821.9 | 577.5 | 428.5 | 424.0 | 421.7 | 263.5 | 220.0 | 201.7 |
| 60° | 24853.2 | 22075.7 | 8211.1 | 1716.5 | 543.1 | 405.6 | 389.6 | 417.1 | 247.5 | 206.3 | 187.9 |
| 62.5° | 23826.5 | 20517.3 | 7154.6 | 1537.7 | 497.3 | 343.8 | 311.7 | 352.9 | 220.0 | 178.8 | 162.7 |
| 65° | 22339.2 | 18122.5 | 6056.9 | 1487.3 | 483.5 | 284.2 | 259.0 | 252.1 | 187.9 | 151.3 | 137.5 |
| 67.5° | 19437.9 | 15335.9 | 4906.5 | 1452.9 | 488.1 | 238.3 | 226.9 | 190.2 | 155.8 | 126.0 | 116.9 |
| 70° | 15562.7 | 11957.9 | 4017.3 | 1414.0 | 492.7 | 194.8 | 190.2 | 151.3 | 126.0 | 105.4 | 96.3 |
| 72.5° | 9455.4 | 7088.1 | 3162.5 | 1228.3 | 479.0 | 155.8 | 169.6 | 114.6 | 91.7 | 75.6 | 71.0 |
| 75° | 5846.0 | 4851.5 | 1961.7 | 955.6 | 316.3 | 114.6 | 119.2 | 71.0 | 61.9 | 48.1 | 48.1 |
| 77.5° | 3387.1 | 3064.0 | 701.3 | 343.8 | 139.8 | 68.8 | 52.7 | 36.7 | 34.4 | 20.6 | 20.6 |
| 80° | 1404.8 | 1125.2 | 242.9 | 116.9 | 75.6 | 32.1 | 11.5 | 2.3 | 0.0 | 0.0 | 0.0 |
| 82.5° | 410.2 | 364.4 | 66.5 | 52.7 | 22.9 | 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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 CATALOG NUMBER: GLAN-SA9A-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10081.1 | 10081.1 | 10081.1 | 10081.1 | 10081.1 | 10081.1 | 10081.1 | 10081.1 | 10081.1 | 10081.1 | 10081.1 |
| 2.5° | 8153.8 | 8078.1 | 8043.8 | 8160.6 | 8052.9 | 8190.4 | 8085.0 | 8130.8 | 8266.1 | 8325.6 | 8479.2 |
| 5° | 6102.7 | 6024.8 | 5988.1 | 6164.6 | 6155.4 | 6242.5 | 6233.3 | 6313.6 | 6382.3 | 6228.8 | 6386.9 |
| 7.5° | 4251.0 | 4198.3 | 4285.4 | 4422.9 | 4569.6 | 4521.5 | 4521.5 | 4413.8 | 4450.4 | 4427.5 | 4420.6 |
| 10° | 3233.5 | 3052.5 | 3006.7 | 3002.1 | 3057.1 | 3068.5 | 3006.7 | 2857.7 | 2912.7 | 2928.8 | 3025.0 |
| 12.5° | 2543.8 | 2404.0 | 2190.8 | 2094.6 | 2069.4 | 2090.0 | 1886.0 | 1755.4 | 1817.3 | 1780.6 | 1874.6 |
| 15° | 1824.2 | 1709.6 | 1583.5 | 1475.8 | 1446.0 | 1404.8 | 1182.5 | 1026.7 | 1008.3 | 1015.2 | 1031.3 |
| 17.5° | 1301.7 | 1223.8 | 1223.8 | 1109.2 | 1047.3 | 923.5 | 811.3 | 742.5 | 735.6 | 742.5 | 754.0 |
| 20° | 960.2 | 919.0 | 914.4 | 884.6 | 815.8 | 733.3 | 655.4 | 641.7 | 637.1 | 648.5 | 653.1 |
| 22.5° | 827.3 | 783.8 | 747.1 | 744.8 | 680.6 | 611.9 | 575.2 | 556.9 | 559.2 | 563.8 | 575.2 |
| 25° | 740.2 | 694.4 | 655.4 | 632.5 | 586.7 | 538.5 | 504.2 | 495.0 | 495.0 | 501.9 | 504.2 |
| 27.5° | 678.3 | 621.0 | 586.7 | 554.6 | 513.3 | 472.1 | 442.3 | 435.4 | 430.8 | 435.4 | 446.9 |
| 30° | 634.8 | 577.5 | 534.0 | 485.8 | 453.8 | 414.8 | 389.6 | 380.4 | 378.1 | 380.4 | 389.6 |
| 32.5° | 543.1 | 508.8 | 474.4 | 430.8 | 391.9 | 366.7 | 339.2 | 323.1 | 323.1 | 327.7 | 336.9 |
| 35° | 410.2 | 391.9 | 389.6 | 378.1 | 346.0 | 318.5 | 286.5 | 270.4 | 270.4 | 279.6 | 284.2 |
| 37.5° | 362.1 | 327.7 | 323.1 | 318.5 | 304.8 | 268.1 | 238.3 | 224.6 | 222.3 | 229.2 | 238.3 |
| 40° | 330.0 | 291.0 | 270.4 | 265.8 | 268.1 | 226.9 | 194.8 | 181.0 | 181.0 | 183.3 | 192.5 |
| 42.5° | 304.8 | 259.0 | 222.3 | 217.7 | 226.9 | 190.2 | 158.1 | 144.4 | 144.4 | 144.4 | 155.8 |
| 45° | 284.2 | 231.5 | 187.9 | 165.0 | 178.8 | 155.8 | 128.3 | 114.6 | 110.0 | 114.6 | 119.2 |
| 47.5° | 270.4 | 210.8 | 165.0 | 132.9 | 132.9 | 123.8 | 103.1 | 87.1 | 82.5 | 84.8 | 91.7 |
| 50° | 259.0 | 192.5 | 139.8 | 107.7 | 96.3 | 98.5 | 77.9 | 66.5 | 61.9 | 61.9 | 68.8 |
| 52.5° | 240.6 | 174.2 | 121.5 | 91.7 | 73.3 | 66.5 | 57.3 | 48.1 | 45.8 | 48.1 | 52.7 |
| 55° | 217.7 | 158.1 | 105.4 | 75.6 | 57.3 | 45.8 | 41.3 | 34.4 | 32.1 | 34.4 | 41.3 |
| 57.5° | 192.5 | 132.9 | 84.8 | 59.6 | 39.0 | 29.8 | 27.5 | 22.9 | 18.3 | 20.6 | 25.2 |
| 59° | 176.5 | 119.2 | 73.3 | 48.1 | 29.8 | 20.6 | 20.6 | 16.0 | 11.5 | 13.8 | 20.6 |
| 60° | 169.6 | 110.0 | 61.9 | 41.3 | 25.2 | 16.0 | 16.0 | 11.5 | 6.9 | 9.2 | 16.0 |
| 62.5° | 144.4 | 91.7 | 48.1 | 25.2 | 11.5 | 2.3 | 6.9 | 2.3 | 0.0 | 2.3 | 6.9 |
| 65° | 121.5 | 73.3 | 32.1 | 11.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 |
| 67.5° | 100.8 | 55.0 | 16.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 80.2 | 36.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 55.0 | 20.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 34.4 | 6.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 13.8 | 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° | 8488.3 | 8816.1 | 9017.7 | 9398.1 | 9787.7 | 10087.9 | 10463.8 | 10800.6 | 10940.4 | 11013.8 |
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| 22.5° | 602.7 | 660.0 | 754.0 | 962.5 | 1865.4 | 3877.5 | 6517.5 | 9597.5 | 10766.3 | 11135.2 |
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| 27.5° | 472.1 | 524.8 | 595.8 | 703.5 | 964.8 | 2612.5 | 7058.3 | 12040.4 | 13575.9 | 13905.9 |
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| 37.5° | 265.8 | 302.5 | 359.8 | 407.9 | 515.6 | 992.3 | 6109.6 | 15523.8 | 17586.3 | 17849.8 |
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| 47.5° | 116.9 | 165.0 | 240.6 | 323.1 | 291.0 | 359.8 | 4134.2 | 18225.6 | 21035.2 | 21328.6 |
| 50° | 94.0 | 137.5 | 252.1 | 284.2 | 242.9 | 304.8 | 4125.0 | 18867.3 | 21367.5 | 21562.3 |
| 52.5° | 75.6 | 112.3 | 213.1 | 217.7 | 206.3 | 268.1 | 4372.5 | 19589.2 | 21706.7 | 21867.1 |
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| 59° | 43.5 | 68.8 | 96.3 | 114.6 | 151.3 | 208.5 | 4480.2 | 21610.4 | 23606.5 | 23764.6 |
| 60° | 36.7 | 61.9 | 84.8 | 107.7 | 139.8 | 197.1 | 4367.9 | 21227.7 | 23359.0 | 23535.4 |
| 62.5° | 27.5 | 48.1 | 61.9 | 87.1 | 114.6 | 169.6 | 3836.3 | 19891.7 | 22412.5 | 22536.3 |
| 65° | 18.3 | 34.4 | 45.8 | 64.2 | 89.4 | 146.7 | 3125.8 | 18159.2 | 20950.4 | 21227.7 |
| 67.5° | 11.5 | 25.2 | 36.7 | 48.1 | 73.3 | 123.8 | 2227.5 | 15571.9 | 18904.0 | 19082.7 |
| 70° | 6.9 | 16.0 | 27.5 | 39.0 | 57.3 | 98.5 | 1322.3 | 12308.6 | 15727.7 | 15764.4 |
| 72.5° | 4.6 | 11.5 | 18.3 | 27.5 | 45.8 | 89.4 | 641.7 | 8023.1 | 11483.6 | 11921.3 |
| 75° | 2.3 | 6.9 | 11.5 | 20.6 | 36.7 | 73.3 | 307.1 | 5360.2 | 8355.4 | 8481.5 |
| 77.5° | 0.0 | 2.3 | 6.9 | 13.8 | 27.5 | 57.3 | 178.8 | 3520.0 | 5697.1 | 5827.7 |
| 80° | 0.0 | 0.0 | 4.6 | 11.5 | 20.6 | 36.7 | 107.7 | 2076.3 | 3451.3 | 3515.4 |
| 82.5° | 0.0 | 0.0 | 2.3 | 9.2 | 13.8 | 27.5 | 55.0 | 912.1 | 2259.6 | 2282.5 |
| 85° | 0.0 | 0.0 | 2.3 | 9.2 | 11.5 | 18.3 | 20.6 | 123.8 | 1003.8 | 1022.1 |
| 87.5° | 0.0 | 0.0 | 2.3 | 11.5 | 11.5 | 11.5 | 11.5 | 6.9 | 84.8 | 105.4 |
| 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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