

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: P453080

Luminaire Tested: **GLAN-SA4A-750-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4A-750-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14484 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

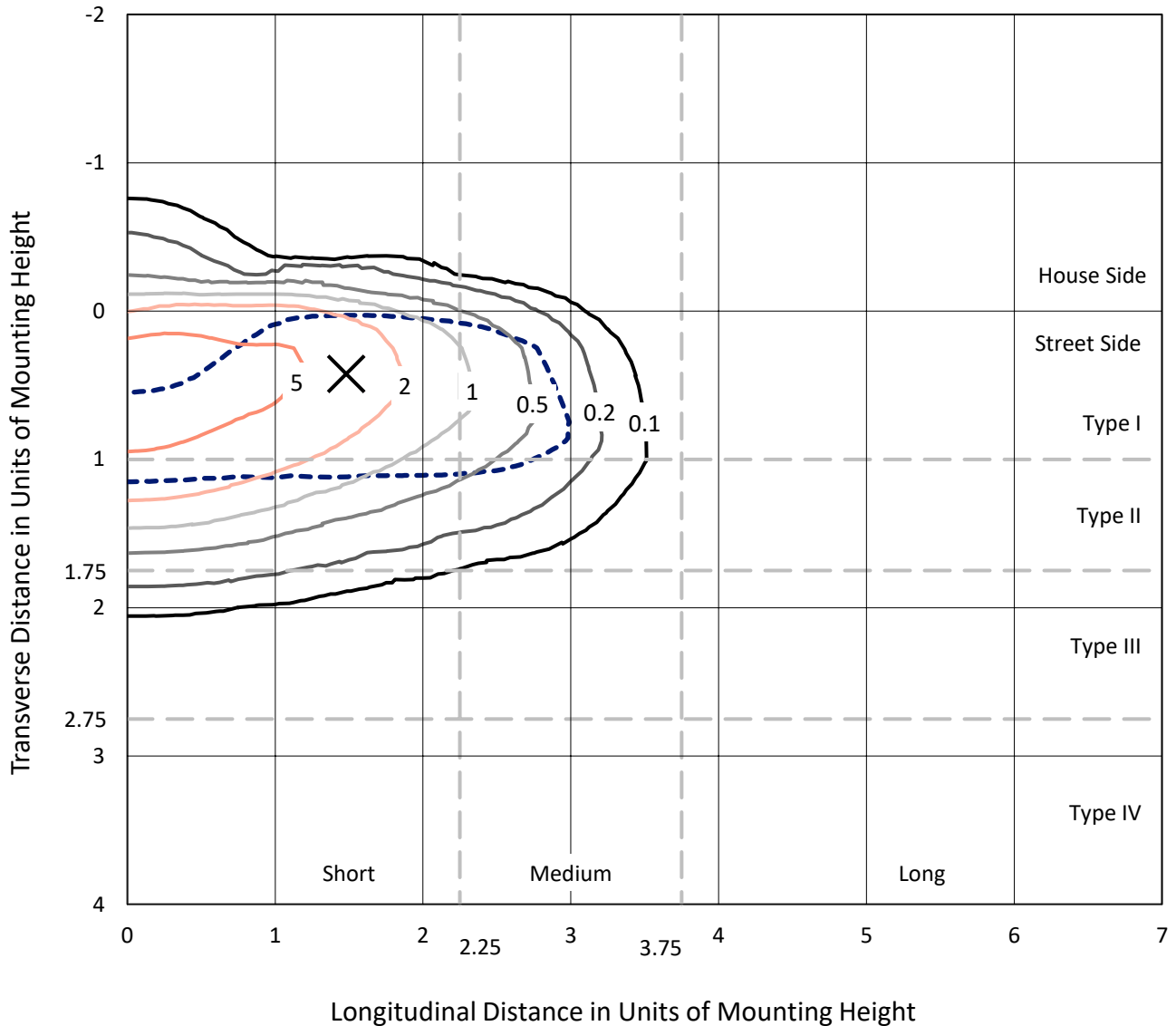
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453080
 CATALOG NUMBER: GLAN-SA4A-750-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

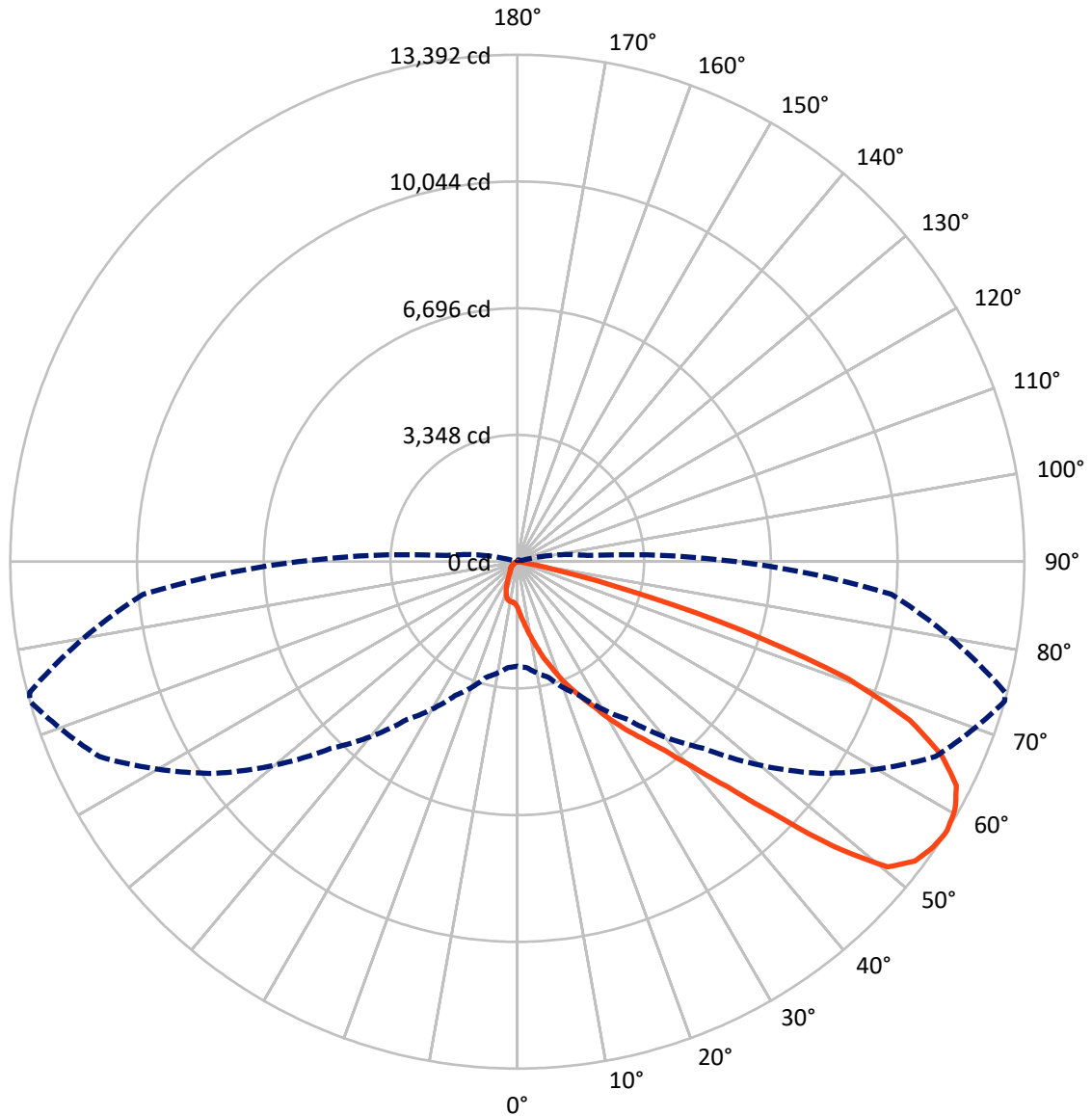
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

REPORT NUMBER: P453080
CATALOG NUMBER: GLAN-SA4A-750-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P453080
 CATALOG NUMBER: GLAN-SA4A-750-U-T2R-HSS

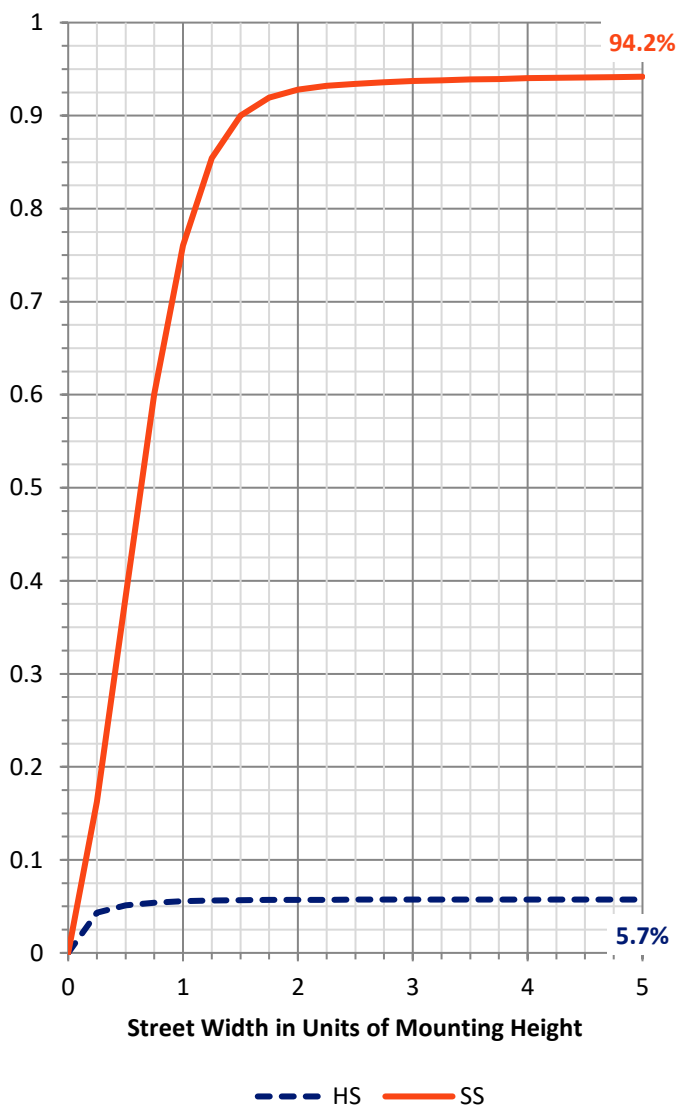
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 835.4 | 0.0 | 835.4 |
| | % Fixture | 5.8 | 0.0 | 5.8 |
| Street Side | Lumens | 13648.6 | 0.0 | 13648.6 |
| | % Fixture | 94.2 | 0.0 | 94.2 |
| Total | Lumens | 14484.0 | 0.0 | 14484.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 146.4 | 1.0 |
| 10°-20° | 577.1 | 4.0 |
| 20°-30° | 1234.9 | 8.5 |
| 30°-40° | 2269.7 | 15.7 |
| 40°-50° | 3479.4 | 24.0 |
| 50°-60° | 3680.8 | 25.4 |
| 60°-70° | 2403.6 | 16.6 |
| 70°-80° | 656.8 | 4.5 |
| 80°-90° | 35.4 | 0.2 |
| 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° | 14484.0 | 100.0 |
| 0°-180° | 14484.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P453080

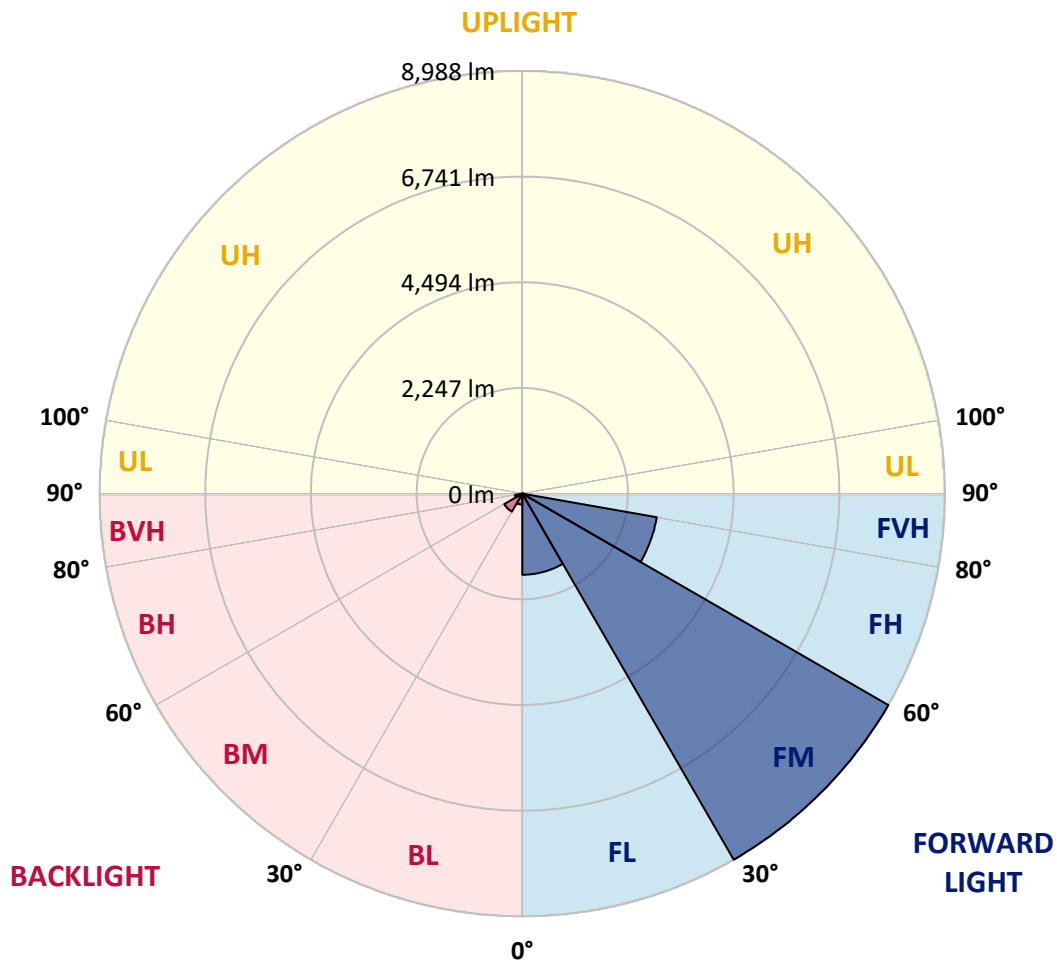
CATALOG NUMBER: GLAN-SA4A-750-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1725.0 | 11.9 | | | |
| FM (30°-60°) | 8987.6 | 62.1 | | | |
| FH (60°-80°) | 2903.6 | 20.0 | | | G2/5000 |
| FVH (80°-90°) | 32.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 233.3 | 1.6 | B1/500 | | |
| BM (30°-60°) | 442.3 | 3.1 | B1/1000 | | |
| BH (60°-80°) | 156.8 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.9 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Short





REPORT NUMBER: P453080

CATALOG NUMBER: GLAN-SA4A-750-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 74° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 1213.0 | 1213.0 | 1213.0 | 1213.0 | 1213.0 | 1213.0 | 1213.0 | 1213.0 | 1213.0 | 1213.0 | 1213.0 |
| 2.5° | 1775.0 | 1759.0 | 1727.0 | 1716.0 | 1669.0 | 1596.0 | 1532.0 | 1446.0 | 1378.0 | 1371.0 | 1289.0 |
| 5° | 2377.0 | 2341.0 | 2326.0 | 2254.0 | 2141.0 | 2035.0 | 1853.0 | 1715.0 | 1556.0 | 1544.0 | 1379.0 |
| 7.5° | 2957.0 | 2907.0 | 2892.0 | 2824.0 | 2692.0 | 2525.0 | 2289.0 | 2038.0 | 1786.0 | 1763.0 | 1500.0 |
| 10° | 3377.0 | 3384.0 | 3357.0 | 3312.0 | 3205.0 | 3035.0 | 2744.0 | 2401.0 | 2042.0 | 2013.0 | 1636.0 |
| 12.5° | 3678.0 | 3677.0 | 3682.0 | 3681.0 | 3624.0 | 3495.0 | 3189.0 | 2794.0 | 2324.0 | 2267.0 | 1792.0 |
| 15° | 3874.1 | 3877.1 | 3892.1 | 3944.1 | 3950.1 | 3870.1 | 3615.0 | 3170.0 | 2651.0 | 2580.0 | 1961.0 |
| 17.5° | 4072.1 | 4093.1 | 4117.1 | 4166.1 | 4210.1 | 4178.1 | 3998.1 | 3562.0 | 2947.0 | 2894.0 | 2142.0 |
| 20° | 4399.1 | 4428.1 | 4414.1 | 4444.1 | 4467.1 | 4470.1 | 4331.1 | 3924.1 | 3306.0 | 3217.0 | 2349.0 |
| 22.5° | 4922.1 | 4921.1 | 4885.1 | 4831.1 | 4786.1 | 4784.1 | 4658.1 | 4296.1 | 3632.0 | 3546.0 | 2557.0 |
| 25° | 5583.1 | 5586.1 | 5516.1 | 5362.1 | 5250.1 | 5113.1 | 4968.1 | 4622.1 | 3981.1 | 3875.1 | 2776.0 |
| 27.5° | 6341.1 | 6322.1 | 6216.1 | 6004.1 | 5782.1 | 5548.1 | 5339.1 | 5001.1 | 4351.1 | 4263.1 | 3027.0 |
| 30° | 7022.1 | 7015.1 | 6891.1 | 6632.1 | 6340.1 | 6105.1 | 5802.1 | 5476.1 | 4830.1 | 4722.1 | 3308.0 |
| 32.5° | 7656.1 | 7666.1 | 7494.1 | 7226.1 | 6944.1 | 6673.1 | 6353.1 | 5930.1 | 5300.1 | 5147.1 | 3614.0 |
| 35° | 8151.1 | 8161.1 | 7983.1 | 7760.1 | 7470.1 | 7245.1 | 6940.1 | 6414.1 | 5764.1 | 5635.1 | 3966.1 |
| 37.5° | 8415.1 | 8428.1 | 8325.1 | 8157.1 | 7976.1 | 7863.1 | 7579.1 | 7037.1 | 6328.1 | 6250.1 | 4382.1 |
| 40° | 8465.1 | 8480.1 | 8435.1 | 8390.1 | 8380.1 | 8461.1 | 8378.1 | 7771.1 | 7110.1 | 6988.1 | 5002.1 |
| 42.5° | 8315.1 | 8335.1 | 8355.1 | 8455.1 | 8659.1 | 8956.1 | 9245.1 | 8767.1 | 8117.1 | 7953.1 | 5760.1 |
| 45° | 7921.1 | 7919.1 | 7998.1 | 8257.1 | 8714.1 | 9348.1 | 10151.1 | 10014.1 | 9489.1 | 9294.1 | 6831.1 |
| 47.5° | 7247.1 | 7237.1 | 7408.1 | 7777.1 | 8489.1 | 9420.1 | 10890.1 | 11528.2 | 11240.1 | 11060.1 | 7982.1 |
| 50° | 6220.1 | 6269.1 | 6538.1 | 7053.1 | 7930.1 | 9202.1 | 11118.1 | 12521.2 | 12677.2 | 12486.2 | 8912.1 |
| 52.5° | 5017.1 | 5015.1 | 5437.1 | 6136.1 | 7102.1 | 8722.1 | 10959.1 | 12701.2 | 13144.2 | 12998.2 | 9370.1 |
| 55° | 3713.0 | 3739.0 | 4178.1 | 4883.1 | 6027.1 | 7846.1 | 10440.1 | 12516.2 | 13322.2 | 13219.2 | 9672.1 |
| 57° | 2762.0 | 2808.0 | 3160.0 | 3906.1 | 5091.1 | 6979.1 | 9749.1 | 12185.2 | 13392.2 | 13336.2 | 9923.1 |
| 57.5° | 2578.0 | 2580.0 | 2923.0 | 3601.0 | 4817.1 | 6646.1 | 9551.1 | 12047.2 | 13390.2 | 13359.2 | 9964.1 |
| 60° | 1587.0 | 1637.0 | 1874.0 | 2434.0 | 3526.0 | 5187.1 | 8224.1 | 11254.1 | 13286.2 | 13331.2 | 10139.1 |
| 62.5° | 950.0 | 971.0 | 1125.0 | 1467.0 | 2273.0 | 3786.1 | 6730.1 | 10239.1 | 13015.2 | 13152.2 | 10127.1 |
| 65° | 611.0 | 616.0 | 686.0 | 888.0 | 1421.0 | 2559.0 | 5186.1 | 8898.1 | 12314.2 | 12566.2 | 9731.1 |
| 67.5° | 472.0 | 480.0 | 508.0 | 583.0 | 824.0 | 1594.0 | 3668.0 | 7467.1 | 11180.1 | 11505.2 | 8771.1 |
| 70° | 419.0 | 423.0 | 433.0 | 457.0 | 545.0 | 900.0 | 2282.0 | 5833.1 | 9271.1 | 9363.1 | 6864.1 |
| 72.5° | 342.0 | 353.0 | 384.0 | 392.0 | 432.0 | 562.0 | 1270.0 | 3915.1 | 6229.1 | 6252.1 | 3840.1 |
| 75° | 265.0 | 267.0 | 313.0 | 336.0 | 364.0 | 387.0 | 567.0 | 1974.0 | 2992.0 | 2832.0 | 1480.0 |
| 77.5° | 198.0 | 207.0 | 228.0 | 257.0 | 297.0 | 277.0 | 254.0 | 744.0 | 929.0 | 912.0 | 430.0 |
| 80° | 127.0 | 132.0 | 159.0 | 193.0 | 231.0 | 181.0 | 143.0 | 218.0 | 204.0 | 210.0 | 103.0 |
| 82.5° | 64.0 | 65.0 | 102.0 | 157.0 | 147.0 | 91.0 | 90.0 | 89.0 | 76.0 | 75.0 | 48.0 |
| 85° | 7.0 | 15.0 | 66.0 | 90.0 | 66.0 | 30.0 | 42.0 | 41.0 | 40.0 | 41.0 | 28.0 |
| 87.5° | 1.0 | 1.0 | 11.0 | 13.0 | 9.0 | 10.0 | 12.0 | 13.0 | 16.0 | 15.0 | 12.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P453080
 CATALOG NUMBER: GLAN-SA4A-750-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1213.0 | 1213.0 | 1213.0 | 1213.0 | 1213.0 | 1213.0 | 1213.0 | 1213.0 | 1213.0 | 1213.0 | 1213.0 |
| 2.5° | 1249.0 | 1209.0 | 1135.0 | 1064.0 | 1011.0 | 977.0 | 933.0 | 917.0 | 894.0 | 891.0 | 880.0 |
| 5° | 1303.0 | 1227.0 | 1098.0 | 996.0 | 914.0 | 852.0 | 798.0 | 753.0 | 717.0 | 709.0 | 713.0 |
| 7.5° | 1380.0 | 1267.0 | 1087.0 | 948.0 | 834.0 | 728.0 | 642.0 | 589.0 | 551.0 | 537.0 | 539.0 |
| 10° | 1467.0 | 1320.0 | 1085.0 | 897.0 | 723.0 | 593.0 | 499.0 | 452.0 | 430.0 | 422.0 | 413.0 |
| 12.5° | 1570.0 | 1381.0 | 1080.0 | 818.0 | 601.0 | 473.0 | 406.0 | 378.0 | 357.0 | 351.0 | 351.0 |
| 15° | 1686.0 | 1446.0 | 1056.0 | 720.0 | 488.0 | 391.0 | 346.0 | 324.0 | 317.0 | 311.0 | 311.0 |
| 17.5° | 1807.0 | 1510.0 | 1006.0 | 599.0 | 405.0 | 335.0 | 307.0 | 294.0 | 284.0 | 277.0 | 277.0 |
| 20° | 1945.0 | 1573.0 | 926.0 | 492.0 | 342.0 | 299.0 | 277.0 | 262.0 | 254.0 | 248.0 | 246.0 |
| 22.5° | 2076.0 | 1624.0 | 824.0 | 404.0 | 298.0 | 269.0 | 249.0 | 233.0 | 225.0 | 222.0 | 222.0 |
| 25° | 2212.0 | 1655.0 | 701.0 | 334.0 | 272.0 | 244.0 | 222.0 | 209.0 | 202.0 | 200.0 | 199.0 |
| 27.5° | 2344.0 | 1673.0 | 593.0 | 292.0 | 248.0 | 221.0 | 200.0 | 190.0 | 183.0 | 181.0 | 182.0 |
| 30° | 2504.0 | 1676.0 | 488.0 | 262.0 | 227.0 | 199.0 | 180.0 | 171.0 | 167.0 | 165.0 | 164.0 |
| 32.5° | 2666.0 | 1672.0 | 410.0 | 244.0 | 207.0 | 180.0 | 164.0 | 157.0 | 154.0 | 151.0 | 151.0 |
| 35° | 2848.0 | 1651.0 | 349.0 | 226.0 | 188.0 | 164.0 | 150.0 | 144.0 | 140.0 | 137.0 | 136.0 |
| 37.5° | 3074.0 | 1640.0 | 314.0 | 206.0 | 171.0 | 149.0 | 136.0 | 130.0 | 127.0 | 123.0 | 122.0 |
| 40° | 3430.0 | 1689.0 | 303.0 | 188.0 | 154.0 | 135.0 | 123.0 | 116.0 | 112.0 | 108.0 | 107.0 |
| 42.5° | 3874.1 | 1775.0 | 285.0 | 170.0 | 139.0 | 122.0 | 110.0 | 102.0 | 95.0 | 90.0 | 88.0 |
| 45° | 4449.1 | 1888.0 | 257.0 | 151.0 | 126.0 | 108.0 | 97.0 | 87.0 | 78.0 | 74.0 | 73.0 |
| 47.5° | 5052.1 | 1997.0 | 232.0 | 136.0 | 112.0 | 96.0 | 84.0 | 73.0 | 65.0 | 62.0 | 61.0 |
| 50° | 5422.1 | 2019.0 | 216.0 | 119.0 | 98.0 | 83.0 | 71.0 | 61.0 | 56.0 | 53.0 | 53.0 |
| 52.5° | 5591.1 | 1984.0 | 194.0 | 104.0 | 85.0 | 73.0 | 61.0 | 53.0 | 50.0 | 48.0 | 47.0 |
| 55° | 5709.1 | 1930.0 | 165.0 | 90.0 | 73.0 | 62.0 | 54.0 | 48.0 | 44.0 | 42.0 | 41.0 |
| 57° | 5778.1 | 1857.0 | 143.0 | 79.0 | 63.0 | 54.0 | 48.0 | 43.0 | 39.0 | 35.0 | 35.0 |
| 57.5° | 5781.1 | 1829.0 | 137.0 | 78.0 | 60.0 | 52.0 | 47.0 | 42.0 | 37.0 | 33.0 | 32.0 |
| 60° | 5692.1 | 1637.0 | 110.0 | 66.0 | 48.0 | 44.0 | 39.0 | 33.0 | 26.0 | 22.0 | 21.0 |
| 62.5° | 5406.1 | 1393.0 | 91.0 | 56.0 | 39.0 | 34.0 | 28.0 | 25.0 | 18.0 | 13.0 | 13.0 |
| 65° | 4973.1 | 1130.0 | 78.0 | 45.0 | 32.0 | 25.0 | 19.0 | 18.0 | 11.0 | 6.0 | 5.0 |
| 67.5° | 4347.1 | 880.0 | 66.0 | 37.0 | 27.0 | 18.0 | 13.0 | 12.0 | 6.0 | 2.0 | 0.0 |
| 70° | 3312.0 | 600.0 | 55.0 | 30.0 | 20.0 | 13.0 | 9.0 | 7.0 | 4.0 | 1.0 | 0.0 |
| 72.5° | 1909.0 | 330.0 | 46.0 | 23.0 | 15.0 | 10.0 | 7.0 | 4.0 | 4.0 | 0.0 | 0.0 |
| 75° | 682.0 | 142.0 | 35.0 | 17.0 | 12.0 | 8.0 | 5.0 | 2.0 | 3.0 | 1.0 | 0.0 |
| 77.5° | 217.0 | 76.0 | 23.0 | 13.0 | 10.0 | 6.0 | 4.0 | 2.0 | 2.0 | 1.0 | 0.0 |
| 80° | 64.0 | 40.0 | 14.0 | 11.0 | 7.0 | 5.0 | 3.0 | 1.0 | 2.0 | 1.0 | 0.0 |
| 82.5° | 35.0 | 20.0 | 11.0 | 8.0 | 7.0 | 4.0 | 3.0 | 1.0 | 1.0 | 1.0 | 0.0 |
| 85° | 18.0 | 12.0 | 9.0 | 8.0 | 7.0 | 4.0 | 3.0 | 1.0 | 0.0 | 1.0 | 1.0 |
| 87.5° | 10.0 | 9.0 | 9.0 | 8.0 | 7.0 | 5.0 | 3.0 | 1.0 | 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)