

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: P528969

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528969  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4A-750-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11965 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

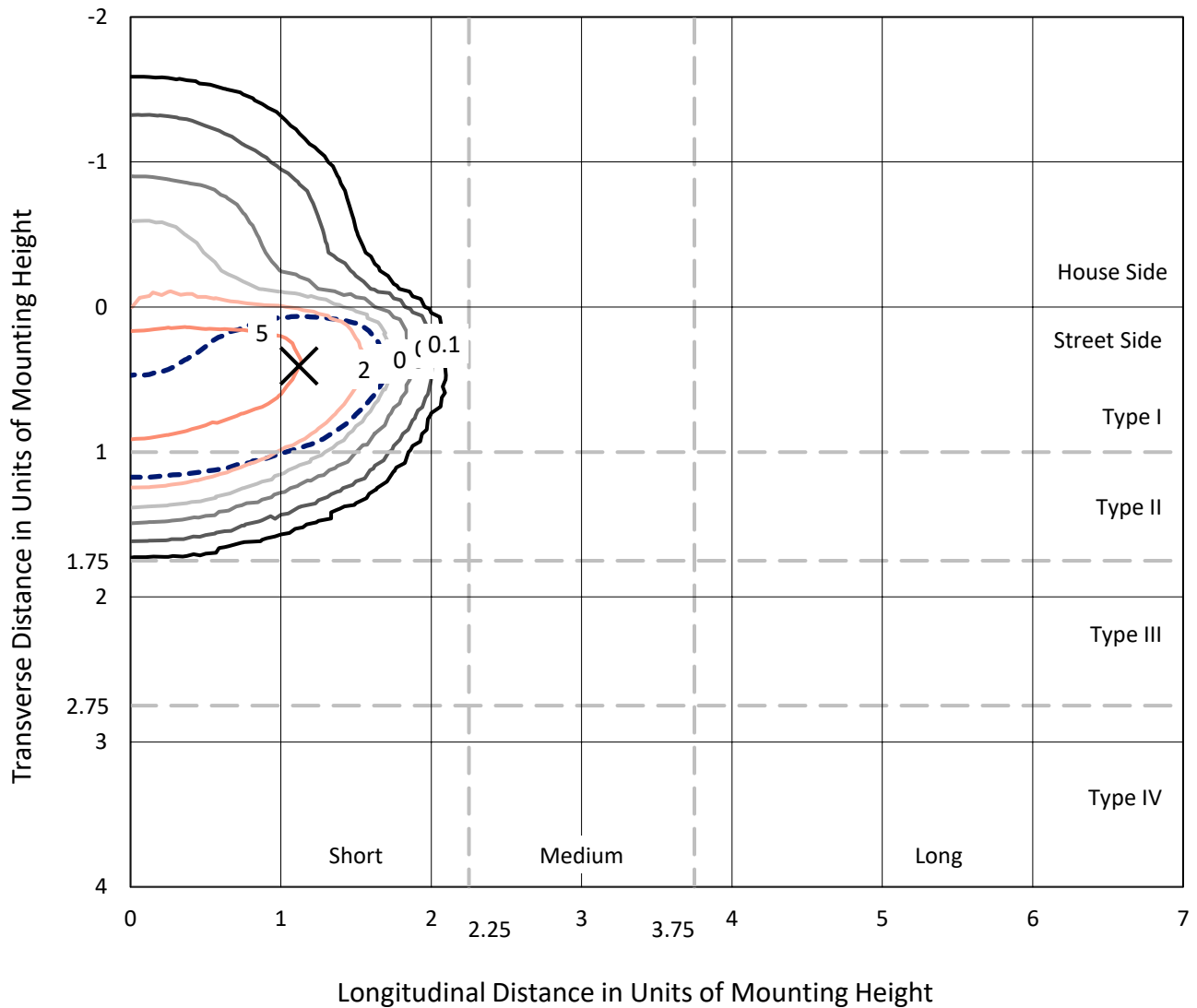
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

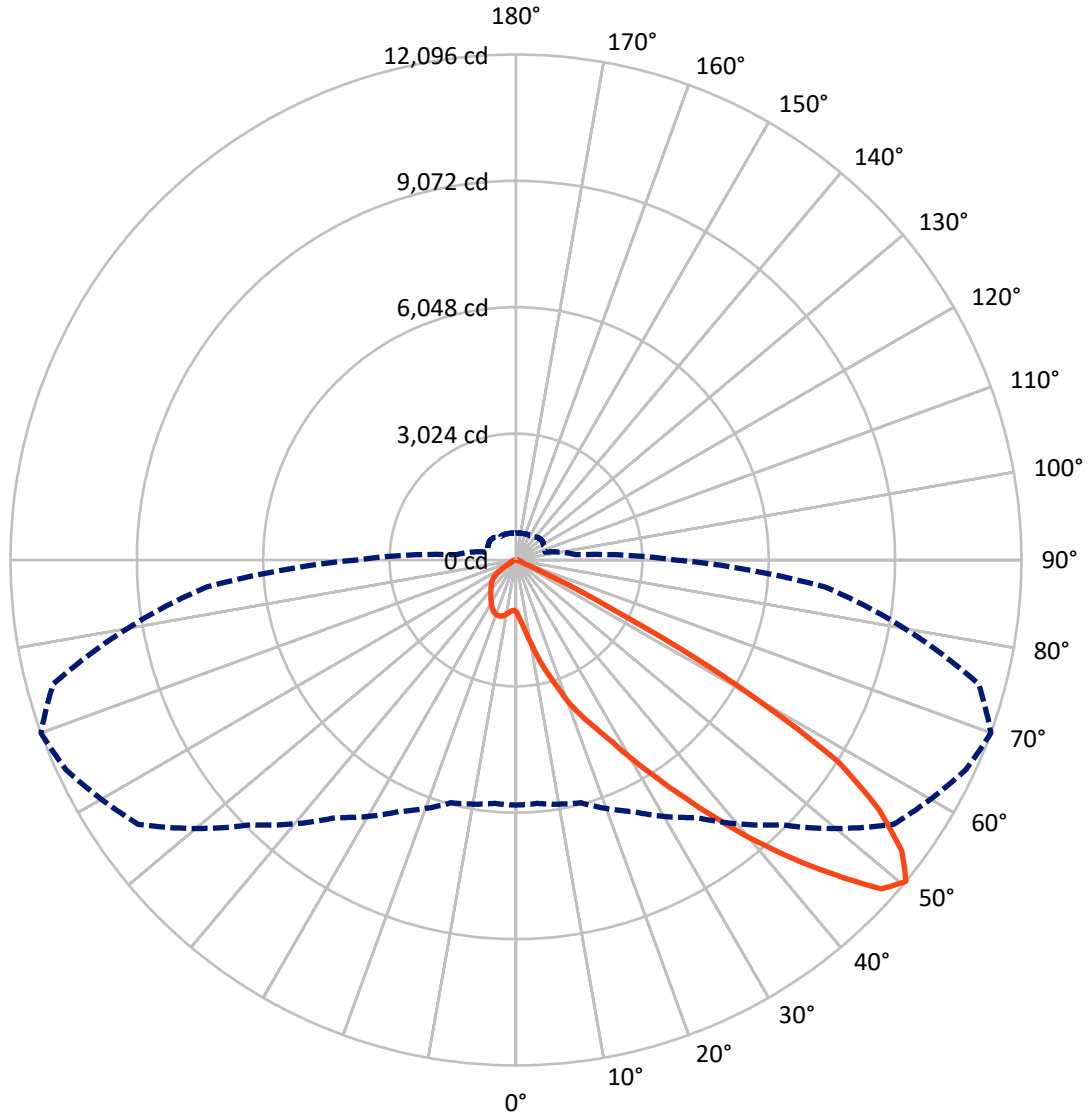
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1671.0   | 0.0    | 1671.0  |
|                    | % Fixture | 14.0     | 0.0    | 14.0    |
| <b>Street Side</b> | Lumens    | 10294.0  | 0.0    | 10294.0 |
|                    | % Fixture | 86.0     | 0.0    | 86.0    |
| <b>Total</b>       | Lumens    | 11965.0  | 0.0    | 11965.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 161.2   | 1.3       |
| 10°-20°   | 697.1   | 5.8       |
| 20°-30°   | 1462.4  | 12.2      |
| 30°-40°   | 2520.7  | 21.1      |
| 40°-50°   | 3684.1  | 30.8      |
| 50°-60°   | 2869.3  | 24.0      |
| 60°-70°   | 486.1   | 4.1       |
| 70°-80°   | 66.8    | 0.6       |
| 80°-90°   | 17.3    | 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°    | 11965.0 | 100.0     |
| 0°-180°   | 11965.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P528969

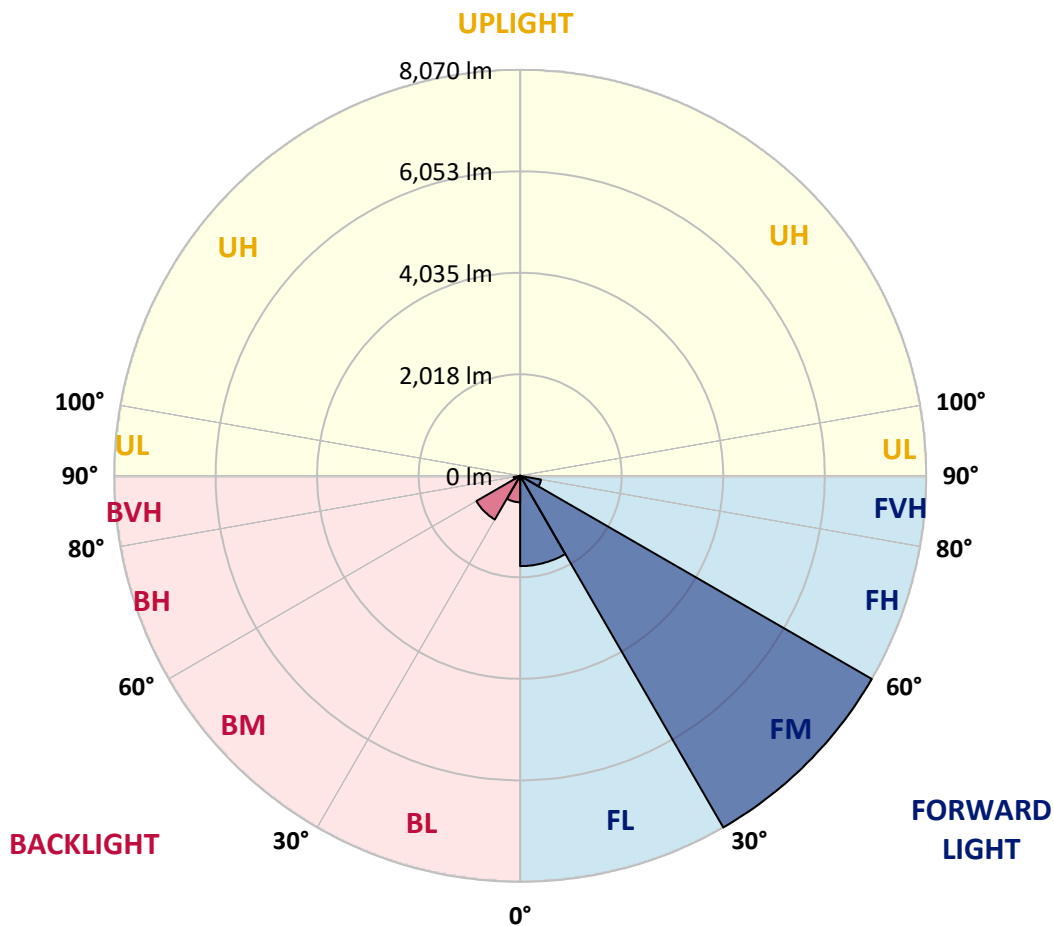
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 1794.9 | 15.0      |                         |      |        |
| FM (30°-60°)   | 8070.2 | 67.4      |                         |      |        |
| FH (60°-80°)   | 420.9  | 3.5       |                         |      | G0/660 |
| FVH (80°-90°)  | 8.0    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 525.8  | 4.4       | B2/1000                 |      |        |
| BM (30°-60°)   | 1003.9 | 8.4       | B2/2500                 |      |        |
| BH (60°-80°)   | 132.0  | 1.1       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 9.3    | 0.1       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G1**

Type I Short





REPORT NUMBER: P528969

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 70°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| 0°    | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3  | 1239.3  | 1239.3  | 1239.3  | 1239.3 |
| 2.5°  | 1622.9 | 1611.1 | 1585.6 | 1538.4 | 1518.7 | 1471.5 | 1443.9  | 1390.8  | 1357.4  | 1320.0  | 1278.7 |
| 5°    | 2285.9 | 2224.9 | 2187.5 | 2134.4 | 1979.0 | 1882.6 | 1723.3  | 1587.5  | 1524.6  | 1455.7  | 1361.3 |
| 7.5°  | 2970.5 | 2931.1 | 2880.0 | 2765.9 | 2659.7 | 2459.0 | 2185.6  | 1886.5  | 1758.7  | 1640.6  | 1453.8 |
| 10°   | 3537.0 | 3426.9 | 3421.0 | 3336.4 | 3220.3 | 2980.3 | 2651.8  | 2280.0  | 2051.8  | 1878.7  | 1585.6 |
| 12.5° | 3932.4 | 3832.1 | 3877.4 | 3867.5 | 3759.3 | 3539.0 | 3159.3  | 2667.5  | 2429.5  | 2160.0  | 1721.3 |
| 15°   | 4292.4 | 4251.1 | 4237.4 | 4225.6 | 4182.3 | 4019.0 | 3678.7  | 3139.7  | 2795.4  | 2470.8  | 1874.7 |
| 17.5° | 4644.6 | 4538.3 | 4589.5 | 4599.3 | 4595.4 | 4447.8 | 4129.2  | 3588.2  | 3182.9  | 2799.3  | 2036.1 |
| 20°   | 4957.4 | 4967.2 | 4898.3 | 4884.6 | 4872.8 | 4866.9 | 4556.0  | 4032.8  | 3659.0  | 3143.6  | 2246.5 |
| 22.5° | 5358.7 | 5289.8 | 5350.8 | 5311.5 | 5234.7 | 5187.5 | 4949.5  | 4426.2  | 4072.1  | 3558.7  | 2461.0 |
| 25°   | 5832.8 | 5887.8 | 5744.2 | 5728.5 | 5643.9 | 5480.6 | 5266.2  | 4866.9  | 4469.5  | 3944.2  | 2693.1 |
| 27.5° | 6417.0 | 6320.6 | 6283.2 | 6196.7 | 6043.3 | 5974.4 | 5722.6  | 5321.3  | 4949.5  | 4349.5  | 2917.4 |
| 30°   | 6918.7 | 6893.1 | 6706.2 | 6603.9 | 6470.1 | 6468.2 | 6116.0  | 5937.0  | 5575.1  | 4984.9  | 3226.2 |
| 32.5° | 7327.8 | 7215.7 | 7146.9 | 7076.0 | 6967.8 | 6997.3 | 6700.3  | 6605.9  | 6241.9  | 5575.1  | 3590.1 |
| 35°   | 7601.3 | 7520.6 | 7479.3 | 7371.1 | 7339.6 | 7471.4 | 7347.5  | 7308.2  | 7009.1  | 6405.2  | 4017.0 |
| 37.5° | 7687.8 | 7713.4 | 7705.5 | 7569.8 | 7636.7 | 7992.7 | 8152.1  | 8049.8  | 7892.4  | 7280.6  | 4479.3 |
| 40°   | 7764.6 | 7782.3 | 7742.9 | 7902.3 | 8093.1 | 8498.3 | 9074.7  | 8905.5  | 8846.5  | 8167.8  | 5122.6 |
| 42.5° | 7807.8 | 7794.1 | 7794.1 | 8069.5 | 8358.6 | 9173.1 | 9965.9  | 9853.7  | 9808.5  | 9112.1  | 5866.2 |
| 45°   | 7620.9 | 7487.2 | 7630.8 | 8004.6 | 8586.8 | 9505.5 | 10678.0 | 10833.4 | 10768.5 | 10235.4 | 6735.7 |
| 47.5° | 6922.6 | 7005.2 | 7085.9 | 7585.5 | 8309.5 | 9403.2 | 11114.7 | 11643.9 | 11763.9 | 11179.6 | 7306.2 |
| 50°   | 5866.2 | 5848.5 | 6015.7 | 6645.2 | 7524.6 | 8962.6 | 11030.1 | 11878.0 | 12096.3 | 11462.9 | 7426.2 |
| 52.5° | 4266.9 | 4396.7 | 4577.7 | 5203.3 | 6245.9 | 7821.6 | 9938.3  | 11274.0 | 11565.2 | 11114.7 | 7347.5 |
| 55°   | 2484.6 | 2341.0 | 2748.2 | 3277.4 | 4261.0 | 5899.6 | 8401.9  | 9993.4  | 10532.4 | 10481.3 | 6950.1 |
| 57.5° | 995.4  | 963.9  | 1103.6 | 1487.2 | 2222.9 | 3657.0 | 6110.1  | 8211.1  | 9074.7  | 9600.0  | 6108.2 |
| 60°   | 436.7  | 426.9  | 501.6  | 605.9  | 908.8  | 1685.9 | 3342.3  | 5106.9  | 6007.8  | 6708.2  | 4203.9 |
| 62.5° | 314.8  | 310.8  | 348.2  | 385.6  | 480.0  | 733.8  | 1404.6  | 2057.7  | 2565.2  | 3098.3  | 1882.6 |
| 65°   | 253.8  | 263.6  | 289.2  | 308.9  | 354.1  | 407.2  | 495.7   | 572.5   | 702.3   | 727.9   | 415.1  |
| 67.5° | 206.6  | 214.4  | 238.0  | 259.7  | 267.5  | 220.3  | 228.2   | 200.7   | 200.7   | 179.0   | 143.6  |
| 70°   | 151.5  | 153.4  | 181.0  | 206.6  | 165.2  | 88.5   | 155.4   | 155.4   | 139.7   | 133.8   | 122.0  |
| 72.5° | 112.1  | 114.1  | 135.7  | 127.9  | 64.9   | 55.1   | 114.1   | 125.9   | 114.1   | 108.2   | 98.4   |
| 75°   | 82.6   | 84.6   | 70.8   | 29.5   | 27.5   | 35.4   | 66.9    | 86.6    | 82.6    | 80.7    | 74.8   |
| 77.5° | 15.7   | 11.8   | 9.8    | 13.8   | 19.7   | 29.5   | 43.3    | 53.1    | 55.1    | 59.0    | 55.1   |
| 80°   | 2.0    | 2.0    | 5.9    | 11.8   | 21.6   | 31.5   | 45.2    | 51.1    | 53.1    | 55.1    | 51.1   |
| 82.5° | 0.0    | 2.0    | 5.9    | 11.8   | 21.6   | 29.5   | 39.3    | 45.2    | 49.2    | 51.1    | 49.2   |
| 85°   | 0.0    | 2.0    | 3.9    | 9.8    | 17.7   | 21.6   | 19.7    | 13.8    | 11.8    | 13.8    | 9.8    |
| 87.5° | 0.0    | 0.0    | 2.0    | 2.0    | 3.9    | 3.9    | 3.9     | 3.9     | 3.9     | 3.9     | 3.9    |
| 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: P528969

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

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3 |
| 2.5°  | 1255.1 | 1247.2 | 1219.7 | 1190.2 | 1164.6 | 1176.4 | 1164.6 | 1154.7 | 1158.7 | 1154.7 | 1150.8 |
| 5°    | 1323.9 | 1288.5 | 1229.5 | 1203.9 | 1182.3 | 1180.3 | 1174.4 | 1172.5 | 1174.4 | 1174.4 | 1156.7 |
| 7.5°  | 1388.8 | 1331.8 | 1268.8 | 1241.3 | 1215.7 | 1217.7 | 1203.9 | 1203.9 | 1202.0 | 1192.1 | 1188.2 |
| 10°   | 1487.2 | 1410.5 | 1329.8 | 1280.6 | 1249.2 | 1243.3 | 1229.5 | 1215.7 | 1215.7 | 1215.7 | 1196.1 |
| 12.5° | 1595.4 | 1499.0 | 1388.8 | 1331.8 | 1294.4 | 1264.9 | 1243.3 | 1239.3 | 1217.7 | 1213.8 | 1203.9 |
| 15°   | 1689.8 | 1567.9 | 1428.2 | 1349.5 | 1302.3 | 1262.9 | 1229.5 | 1207.9 | 1198.0 | 1192.1 | 1184.3 |
| 17.5° | 1782.3 | 1626.9 | 1449.8 | 1349.5 | 1298.4 | 1253.1 | 1217.7 | 1198.0 | 1174.4 | 1178.4 | 1162.6 |
| 20°   | 1906.2 | 1689.8 | 1455.7 | 1323.9 | 1261.0 | 1217.7 | 1170.5 | 1160.7 | 1146.9 | 1135.1 | 1139.0 |
| 22.5° | 2026.2 | 1735.1 | 1438.0 | 1292.5 | 1202.0 | 1150.8 | 1127.2 | 1115.4 | 1109.5 | 1099.7 | 1085.9 |
| 25°   | 2134.4 | 1784.3 | 1410.5 | 1235.4 | 1139.0 | 1101.6 | 1080.0 | 1078.0 | 1064.3 | 1064.3 | 1038.7 |
| 27.5° | 2244.6 | 1802.0 | 1363.3 | 1168.5 | 1083.9 | 1062.3 | 1052.5 | 1048.5 | 1042.6 | 1028.8 | 1011.1 |
| 30°   | 2370.5 | 1807.9 | 1294.4 | 1099.7 | 1034.7 | 1011.1 | 1024.9 | 1034.7 | 1009.2 | 983.6  | 991.5  |
| 32.5° | 2474.7 | 1794.1 | 1211.8 | 1034.7 | 999.3  | 987.5  | 1015.1 | 1024.9 | 995.4  | 967.9  | 954.1  |
| 35°   | 2600.6 | 1760.6 | 1131.1 | 983.6  | 963.9  | 987.5  | 1011.1 | 1011.1 | 952.1  | 918.7  | 910.8  |
| 37.5° | 2791.5 | 1723.3 | 1056.4 | 940.3  | 926.6  | 975.7  | 1007.2 | 985.6  | 893.1  | 851.8  | 842.0  |
| 40°   | 2996.1 | 1699.7 | 983.6  | 897.0  | 906.9  | 956.1  | 973.8  | 906.9  | 812.5  | 786.9  | 779.0  |
| 42.5° | 3293.1 | 1652.5 | 918.7  | 859.7  | 889.2  | 928.5  | 928.5  | 808.5  | 773.1  | 759.3  | 757.4  |
| 45°   | 3662.9 | 1619.0 | 861.6  | 828.2  | 863.6  | 873.4  | 842.0  | 757.4  | 731.8  | 727.9  | 729.8  |
| 47.5° | 3843.9 | 1554.1 | 802.6  | 790.8  | 816.4  | 818.4  | 735.7  | 716.1  | 694.4  | 688.5  | 684.6  |
| 50°   | 3816.4 | 1438.0 | 725.9  | 741.6  | 777.0  | 757.4  | 670.8  | 674.8  | 655.1  | 653.1  | 643.3  |
| 52.5° | 3623.6 | 1255.1 | 649.2  | 686.6  | 725.9  | 668.8  | 617.7  | 613.8  | 613.8  | 588.2  | 578.4  |
| 55°   | 3212.4 | 1011.1 | 556.7  | 603.9  | 651.1  | 562.6  | 548.8  | 544.9  | 535.1  | 511.5  | 505.6  |
| 57.5° | 2543.6 | 741.6  | 419.0  | 470.2  | 552.8  | 478.0  | 476.1  | 458.4  | 432.8  | 415.1  | 415.1  |
| 60°   | 1512.8 | 426.9  | 263.6  | 287.2  | 365.9  | 387.5  | 430.8  | 422.9  | 379.7  | 352.1  | 344.3  |
| 62.5° | 690.5  | 220.3  | 167.2  | 171.1  | 196.7  | 251.8  | 338.4  | 391.5  | 330.5  | 283.3  | 279.3  |
| 65°   | 232.1  | 163.3  | 137.7  | 131.8  | 135.7  | 151.5  | 202.6  | 277.4  | 263.6  | 218.4  | 210.5  |
| 67.5° | 141.6  | 145.6  | 129.8  | 120.0  | 120.0  | 118.0  | 116.1  | 125.9  | 155.4  | 151.5  | 153.4  |
| 70°   | 122.0  | 133.8  | 120.0  | 108.2  | 104.3  | 98.4   | 82.6   | 68.9   | 59.0   | 68.9   | 72.8   |
| 72.5° | 98.4   | 106.2  | 102.3  | 92.5   | 82.6   | 74.8   | 59.0   | 45.2   | 33.4   | 29.5   | 29.5   |
| 75°   | 72.8   | 78.7   | 82.6   | 70.8   | 63.0   | 53.1   | 43.3   | 29.5   | 17.7   | 11.8   | 11.8   |
| 77.5° | 53.1   | 59.0   | 61.0   | 55.1   | 47.2   | 37.4   | 27.5   | 19.7   | 9.8    | 3.9    | 3.9    |
| 80°   | 45.2   | 53.1   | 59.0   | 55.1   | 49.2   | 35.4   | 25.6   | 13.8   | 7.9    | 2.0    | 2.0    |
| 82.5° | 43.3   | 53.1   | 59.0   | 53.1   | 47.2   | 33.4   | 25.6   | 15.7   | 5.9    | 2.0    | 2.0    |
| 85°   | 9.8    | 13.8   | 17.7   | 21.6   | 25.6   | 25.6   | 19.7   | 11.8   | 5.9    | 2.0    | 2.0    |
| 87.5° | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 2.0    | 2.0    | 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)