

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: P452825

Luminaire Tested: **GLAN-SA3D-740-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452825  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3D-740-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16629 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 184  
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

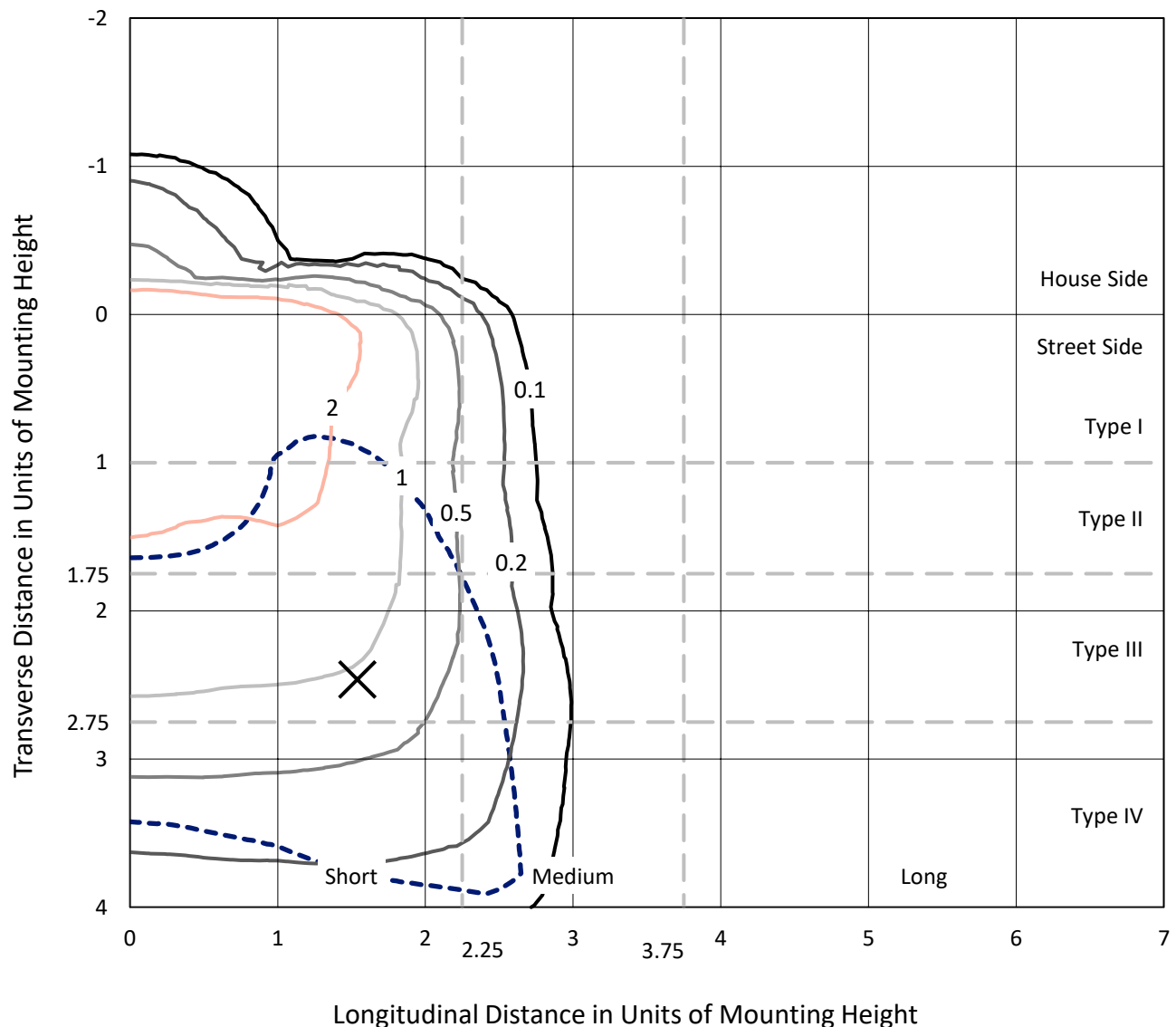


REPORT NUMBER: P452825

CATALOG NUMBER: GLAN-SA3D-740-U-T4FT-HSS

## Iso-Footcandle Lines of Horizontal Illumination

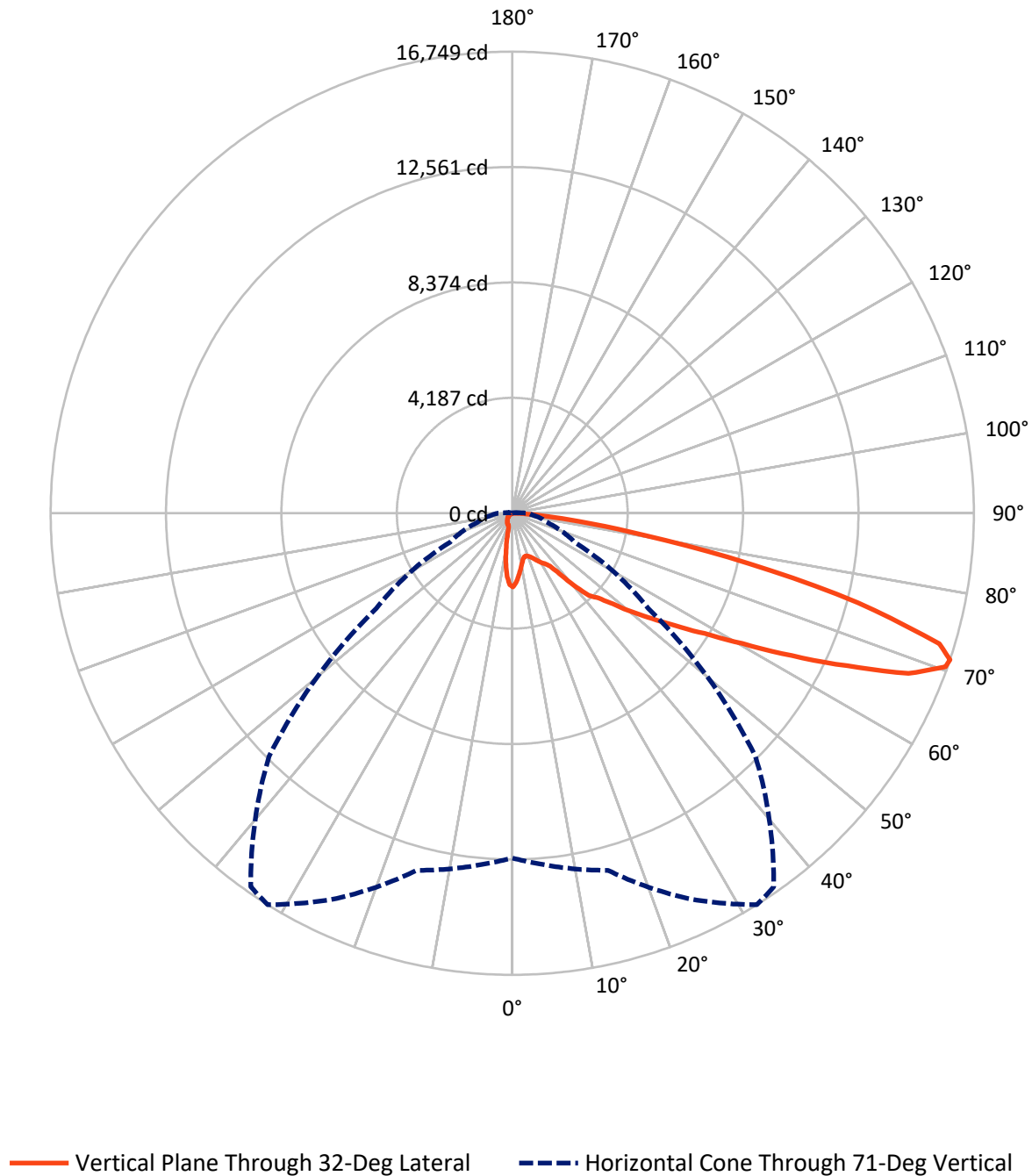
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P452825  
CATALOG NUMBER: GLAN-SA3D-740-U-T4FT-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P452825

CATALOG NUMBER: GLAN-SA3D-740-U-T4FT-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1392.9   | 0.0    | 1392.9  |
|                    | % Fixture | 8.4      | 0.0    | 8.4     |
| <b>Street Side</b> | Lumens    | 15236.1  | 0.0    | 15236.1 |
|                    | % Fixture | 91.6     | 0.0    | 91.6    |
| <b>Total</b>       | Lumens    | 16629.0  | 0.0    | 16629.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 217.4   | 1.3       |
| 10°-20°   | 471.9   | 2.8       |
| 20°-30°   | 734.2   | 4.4       |
| 30°-40°   | 1223.1  | 7.4       |
| 40°-50°   | 2275.3  | 13.7      |
| 50°-60°   | 3653.0  | 22.0      |
| 60°-70°   | 4913.5  | 29.5      |
| 70°-80°   | 2915.2  | 17.5      |
| 80°-90°   | 225.3   | 1.4       |
| 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°    | 16629.0 | 100.0     |
| 0°-180°   | 16629.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P452825

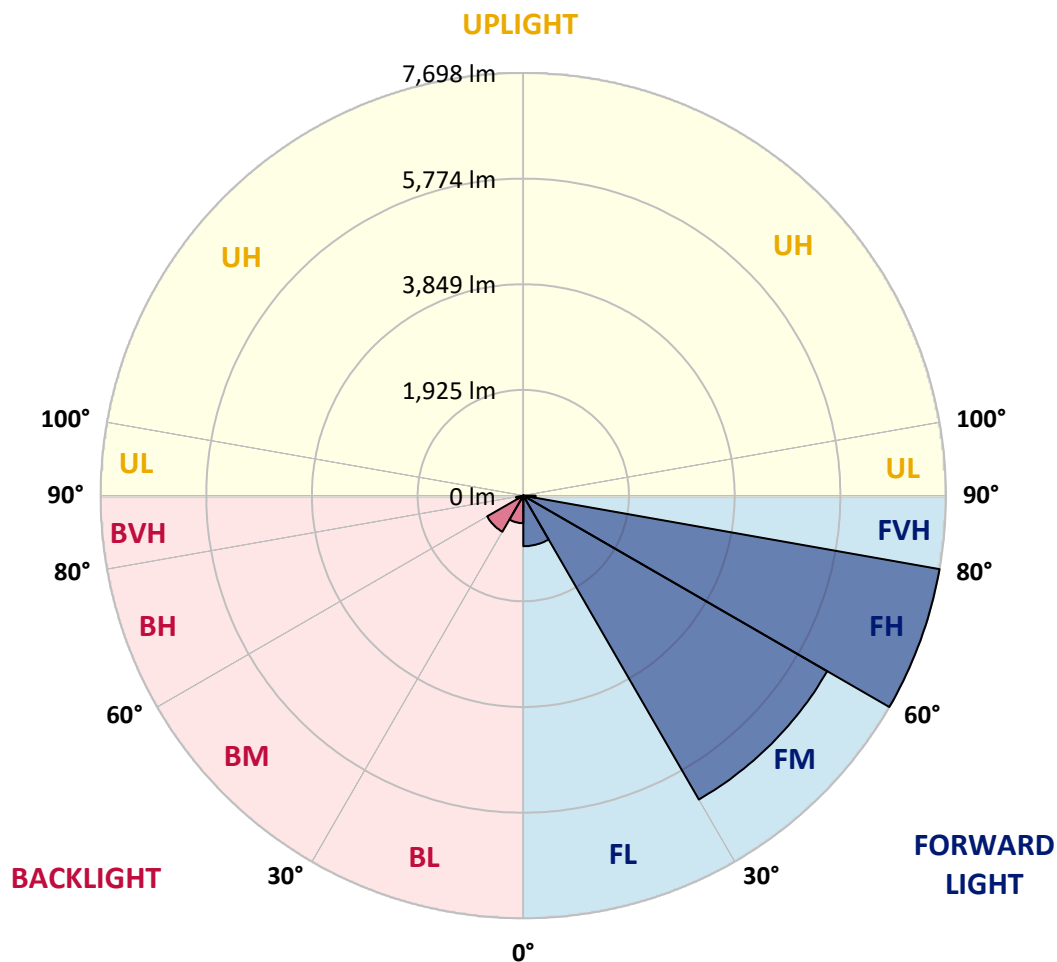
CATALOG NUMBER: GLAN-SA3D-740-U-T4FT-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 921.7  | 5.5       |                         |      |          |
| FM   | (30°-60°)   | 6391.6 | 38.4      |                         |      |          |
| FH   | (60°-80°)   | 7698.4 | 46.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 224.5  | 1.3       |                         |      | G2/225   |
| BL   | (0°-30°)    | 501.9  | 3.0       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 759.8  | 4.6       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 130.3  | 0.8       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 0.9    | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type IV Short





REPORT NUMBER: P452825

CATALOG NUMBER: GLAN-SA3D-740-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 32°     | 35°     | 45°     | 55°    | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 2674.2  | 2674.2  | 2674.2  | 2674.2  | 2674.2  | 2674.2  | 2674.2  | 2674.2 | 2674.2 | 2674.2 | 2674.2 |
| 2.5°  | 2480.2  | 2505.7  | 2501.9  | 2510.8  | 2532.5  | 2541.5  | 2565.7  | 2592.5 | 2629.5 | 2655.1 | 2671.7 |
| 5°    | 2221.1  | 2240.2  | 2242.8  | 2287.4  | 2309.1  | 2333.4  | 2404.9  | 2482.7 | 2569.5 | 2638.5 | 2684.4 |
| 7.5°  | 1944.1  | 1954.3  | 1974.7  | 2033.4  | 2088.3  | 2112.6  | 2221.1  | 2356.4 | 2492.9 | 2621.9 | 2704.8 |
| 10°   | 1715.6  | 1727.1  | 1764.1  | 1826.6  | 1877.7  | 1909.6  | 2060.2  | 2230.0 | 2421.5 | 2612.9 | 2734.2 |
| 12.5° | 1585.4  | 1591.8  | 1605.8  | 1662.0  | 1727.1  | 1761.5  | 1923.6  | 2117.7 | 2364.0 | 2616.8 | 2784.0 |
| 15°   | 1576.4  | 1573.9  | 1557.3  | 1580.3  | 1639.0  | 1674.7  | 1833.0  | 2041.1 | 2313.0 | 2629.5 | 2842.7 |
| 17.5° | 1623.7  | 1617.3  | 1577.7  | 1577.7  | 1626.2  | 1655.6  | 1794.7  | 2000.2 | 2287.4 | 2658.9 | 2925.7 |
| 20°   | 1696.4  | 1686.2  | 1621.1  | 1616.0  | 1663.2  | 1693.9  | 1817.7  | 2002.8 | 2292.5 | 2713.8 | 3036.7 |
| 22.5° | 1788.3  | 1776.8  | 1678.6  | 1681.1  | 1732.2  | 1762.8  | 1884.1  | 2048.7 | 2324.5 | 2781.4 | 3155.4 |
| 25°   | 1908.3  | 1895.6  | 1779.4  | 1774.3  | 1827.9  | 1854.7  | 1982.4  | 2130.4 | 2369.1 | 2865.7 | 3311.2 |
| 27.5° | 2067.9  | 2041.1  | 1901.9  | 1894.3  | 1951.7  | 1986.2  | 2101.1  | 2240.2 | 2448.3 | 2981.8 | 3520.5 |
| 30°   | 2199.4  | 2170.0  | 2037.2  | 2016.8  | 2078.1  | 2104.9  | 2223.6  | 2388.3 | 2604.0 | 3184.8 | 3810.3 |
| 32.5° | 2371.7  | 2328.3  | 2172.6  | 2118.9  | 2184.0  | 2218.5  | 2401.0  | 2664.0 | 2835.0 | 3399.2 | 4154.9 |
| 35°   | 2759.7  | 2732.9  | 2542.7  | 2355.1  | 2351.3  | 2394.7  | 2662.7  | 2942.3 | 3072.5 | 3733.7 | 4624.6 |
| 37.5° | 3315.0  | 3295.8  | 3094.2  | 2842.7  | 2769.9  | 2749.5  | 2980.6  | 3248.6 | 3451.6 | 4193.2 | 5171.0 |
| 40°   | 3959.6  | 3914.9  | 3729.8  | 3516.7  | 3422.2  | 3362.2  | 3355.8  | 3704.3 | 3946.8 | 4817.4 | 5740.3 |
| 42.5° | 4421.7  | 4340.0  | 4115.3  | 4100.0  | 4079.6  | 4017.0  | 3835.8  | 4370.6 | 4586.4 | 5488.8 | 6349.2 |
| 45°   | 4906.7  | 4782.9  | 4448.5  | 4391.1  | 4383.4  | 4379.6  | 4560.8  | 5159.5 | 5283.3 | 6216.4 | 6974.6 |
| 47.5° | 5283.3  | 5185.0  | 4910.6  | 4885.0  | 4917.0  | 5003.8  | 5519.5  | 5996.9 | 5971.3 | 6864.9 | 7499.3 |
| 50°   | 5785.0  | 5710.9  | 5405.8  | 5454.4  | 5619.0  | 5760.7  | 6600.6  | 6909.5 | 6536.8 | 7375.4 | 7880.9 |
| 52.5° | 6377.2  | 6240.7  | 5957.3  | 6088.8  | 6341.5  | 6577.6  | 7748.2  | 7708.6 | 6933.8 | 7759.7 | 8165.6 |
| 55°   | 6890.4  | 6793.4  | 6696.4  | 6832.9  | 7210.8  | 7505.6  | 8784.7  | 8307.3 | 7222.3 | 8068.6 | 8290.7 |
| 57.5° | 7758.4  | 7735.4  | 7635.8  | 7775.0  | 8233.2  | 8539.6  | 9712.7  | 8771.9 | 7407.4 | 8229.4 | 8143.9 |
| 60°   | 9042.5  | 9005.5  | 8820.4  | 8997.8  | 9595.2  | 10076.4 | 10567.9 | 9189.3 | 7449.5 | 8166.8 | 7721.4 |
| 62.5° | 10587.0 | 10460.7 | 10302.4 | 10564.1 | 11383.6 | 11595.4 | 11373.3 | 9436.9 | 7292.5 | 7669.0 | 6702.7 |
| 65°   | 12029.4 | 11899.2 | 11903.1 | 12454.5 | 13346.8 | 13491.0 | 12312.8 | 9399.9 | 6832.9 | 6421.9 | 4943.8 |
| 67.5° | 13133.6 | 13111.9 | 13267.6 | 14343.7 | 15510.4 | 15410.8 | 13152.7 | 8845.9 | 5470.9 | 4162.6 | 2627.0 |
| 70°   | 13189.8 | 13231.9 | 13678.6 | 15495.1 | 16679.6 | 16521.3 | 13081.3 | 7190.4 | 3410.7 | 1914.7 | 1035.2 |
| 71°   | 12510.7 | 12794.1 | 13411.9 | 15459.3 | 16748.6 | 16543.0 | 12478.8 | 6022.4 | 2501.9 | 1335.2 | 746.7  |
| 72.5° | 10661.1 | 10810.4 | 12145.6 | 14549.2 | 16203.5 | 15764.4 | 10950.8 | 4221.3 | 1602.0 | 816.9  | 428.9  |
| 75°   | 5871.8  | 6239.4  | 8133.7  | 11414.2 | 12960.0 | 12574.5 | 7136.7  | 2005.3 | 799.1  | 446.8  | 177.4  |
| 77.5° | 2795.5  | 2724.0  | 3968.5  | 6788.3  | 8787.2  | 8766.8  | 3595.8  | 891.0  | 465.9  | 302.5  | 89.4   |
| 80°   | 799.1   | 898.6   | 1519.0  | 3226.9  | 4878.7  | 4932.3  | 1381.1  | 430.2  | 322.9  | 236.1  | 46.0   |
| 82.5° | 241.3   | 246.4   | 557.8   | 1427.1  | 2426.6  | 2287.4  | 518.2   | 219.6  | 232.3  | 187.6  | 26.8   |
| 85°   | 42.1    | 52.3    | 164.7   | 502.9   | 925.4   | 702.1   | 130.2   | 104.7  | 153.2  | 123.8  | 15.3   |
| 87.5° | 2.6     | 3.8     | 54.9    | 57.4    | 81.7    | 47.2    | 23.0    | 15.3   | 33.2   | 33.2   | 8.9    |
| 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: P452825

CATALOG NUMBER: GLAN-SA3D-740-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2674.2 | 2674.2 | 2674.2 | 2674.2 | 2674.2 | 2674.2 | 2674.2 | 2674.2 | 2674.2 | 2674.2 | 2674.2 |
| 2.5°  | 2683.1 | 2690.8 | 2685.7 | 2674.2 | 2655.1 | 2632.1 | 2601.4 | 2575.9 | 2554.2 | 2542.7 | 2556.8 |
| 5°    | 2699.7 | 2709.9 | 2684.4 | 2627.0 | 2540.2 | 2445.7 | 2338.5 | 2255.5 | 2190.4 | 2170.0 | 2162.3 |
| 7.5°  | 2725.3 | 2731.6 | 2662.7 | 2535.1 | 2351.3 | 2127.9 | 1932.6 | 1767.9 | 1640.3 | 1602.0 | 1545.8 |
| 10°   | 2758.4 | 2754.6 | 2624.4 | 2387.0 | 2064.1 | 1728.3 | 1425.8 | 1201.2 | 1031.4 | 970.1  | 965.0  |
| 12.5° | 2809.5 | 2789.1 | 2575.9 | 2185.3 | 1722.0 | 1282.9 | 908.8  | 711.0  | 603.8  | 568.0  | 560.4  |
| 15°   | 2873.3 | 2824.8 | 2499.3 | 1949.2 | 1318.6 | 828.4  | 560.4  | 500.4  | 486.3  | 483.8  | 481.2  |
| 17.5° | 2948.6 | 2872.1 | 2398.5 | 1659.4 | 926.7  | 537.4  | 468.5  | 467.2  | 468.5  | 465.9  | 464.6  |
| 20°   | 3050.8 | 2921.8 | 2278.5 | 1316.0 | 612.7  | 453.1  | 446.8  | 446.8  | 448.0  | 446.8  | 446.8  |
| 22.5° | 3159.3 | 2980.6 | 2130.4 | 1004.6 | 462.1  | 430.2  | 428.9  | 431.4  | 434.0  | 432.7  | 432.7  |
| 25°   | 3293.3 | 3057.1 | 1935.1 | 688.0  | 413.6  | 411.0  | 412.3  | 417.4  | 422.5  | 423.8  | 422.5  |
| 27.5° | 3487.3 | 3151.6 | 1725.8 | 473.6  | 379.1  | 381.7  | 394.4  | 407.2  | 414.9  | 416.1  | 416.1  |
| 30°   | 3705.6 | 3256.3 | 1452.6 | 384.2  | 351.0  | 351.0  | 366.3  | 390.6  | 407.2  | 409.7  | 411.0  |
| 32.5° | 3986.4 | 3377.5 | 1150.1 | 345.9  | 324.2  | 321.7  | 335.7  | 365.1  | 395.7  | 404.6  | 404.6  |
| 35°   | 4333.6 | 3520.5 | 855.2  | 321.7  | 305.1  | 298.7  | 306.4  | 330.6  | 370.2  | 395.7  | 398.3  |
| 37.5° | 4740.8 | 3655.8 | 625.5  | 300.0  | 287.2  | 278.3  | 283.4  | 302.5  | 334.4  | 372.7  | 382.9  |
| 40°   | 5117.4 | 3775.8 | 467.2  | 282.1  | 269.3  | 263.0  | 266.8  | 275.7  | 302.5  | 338.3  | 344.6  |
| 42.5° | 5528.4 | 3869.0 | 371.5  | 263.0  | 251.5  | 248.9  | 248.9  | 252.7  | 270.6  | 291.0  | 292.3  |
| 45°   | 5938.1 | 3902.2 | 311.5  | 240.0  | 232.3  | 234.9  | 233.6  | 231.0  | 238.7  | 236.1  | 236.1  |
| 47.5° | 6230.4 | 3862.6 | 257.8  | 218.3  | 218.3  | 222.1  | 215.7  | 206.8  | 203.0  | 187.6  | 188.9  |
| 50°   | 6430.9 | 3718.4 | 211.9  | 192.7  | 203.0  | 208.1  | 195.3  | 181.3  | 167.2  | 150.6  | 146.8  |
| 52.5° | 6513.8 | 3461.8 | 173.6  | 159.6  | 180.0  | 186.4  | 171.0  | 154.5  | 132.8  | 118.7  | 114.9  |
| 55°   | 6460.2 | 3145.2 | 144.2  | 130.2  | 151.9  | 159.6  | 144.2  | 125.1  | 100.8  | 85.5   | 83.0   |
| 57.5° | 6224.1 | 2767.4 | 122.5  | 103.4  | 121.3  | 126.4  | 116.2  | 95.7   | 71.5   | 56.2   | 56.2   |
| 60°   | 5815.6 | 2376.8 | 99.6   | 81.7   | 90.6   | 98.3   | 88.1   | 68.9   | 48.5   | 34.5   | 31.9   |
| 62.5° | 4987.2 | 1930.0 | 80.4   | 63.8   | 63.8   | 70.2   | 61.3   | 49.8   | 30.6   | 17.9   | 16.6   |
| 65°   | 3600.9 | 1323.7 | 63.8   | 47.2   | 46.0   | 46.0   | 38.3   | 33.2   | 17.9   | 7.7    | 5.1    |
| 67.5° | 1956.8 | 746.7  | 51.1   | 35.7   | 31.9   | 30.6   | 24.3   | 19.1   | 7.7    | 1.3    | 0.0    |
| 70°   | 769.7  | 287.2  | 39.6   | 24.3   | 20.4   | 19.1   | 12.8   | 8.9    | 5.1    | 0.0    | 0.0    |
| 71°   | 522.1  | 197.9  | 34.5   | 20.4   | 16.6   | 14.0   | 10.2   | 7.7    | 3.8    | 0.0    | 0.0    |
| 72.5° | 298.7  | 122.5  | 26.8   | 15.3   | 12.8   | 10.2   | 7.7    | 5.1    | 3.8    | 0.0    | 0.0    |
| 75°   | 130.2  | 62.5   | 16.6   | 11.5   | 8.9    | 6.4    | 5.1    | 3.8    | 1.3    | 0.0    | 0.0    |
| 77.5° | 66.4   | 34.5   | 11.5   | 8.9    | 5.1    | 3.8    | 2.6    | 1.3    | 0.0    | 0.0    | 0.0    |
| 80°   | 37.0   | 17.9   | 7.7    | 5.1    | 3.8    | 2.6    | 1.3    | 1.3    | 0.0    | 0.0    | 0.0    |
| 82.5° | 20.4   | 10.2   | 3.8    | 2.6    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 12.8   | 6.4    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 6.4    | 2.6    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 1.3    | 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)