

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: P457602

Luminaire Tested: **GLAN-SA9A-722-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457602  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9A-722-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22783 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G4

Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

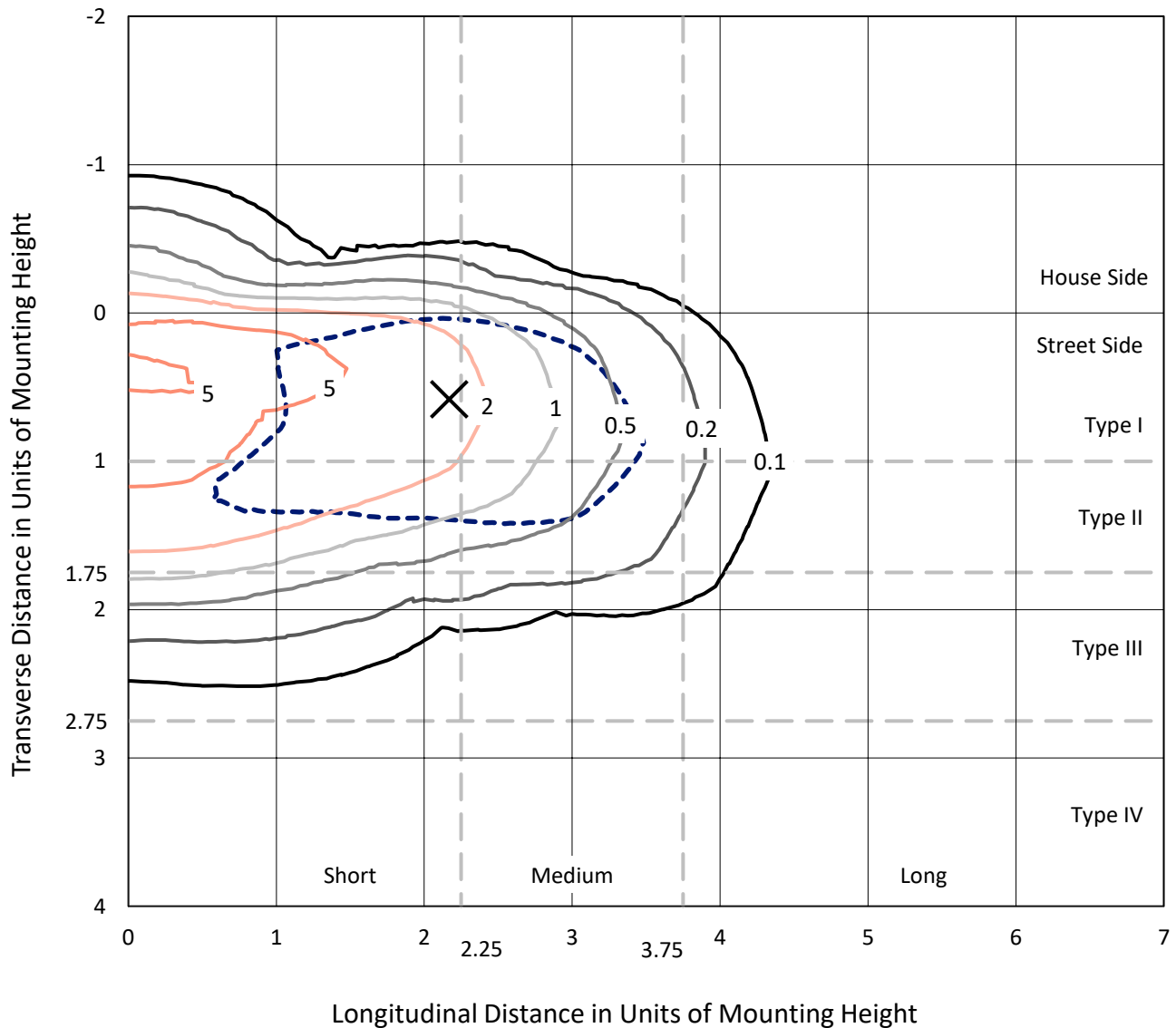


REPORT NUMBER: P457602

CATALOG NUMBER: GLAN-SA9A-722-U-T2-HSS

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

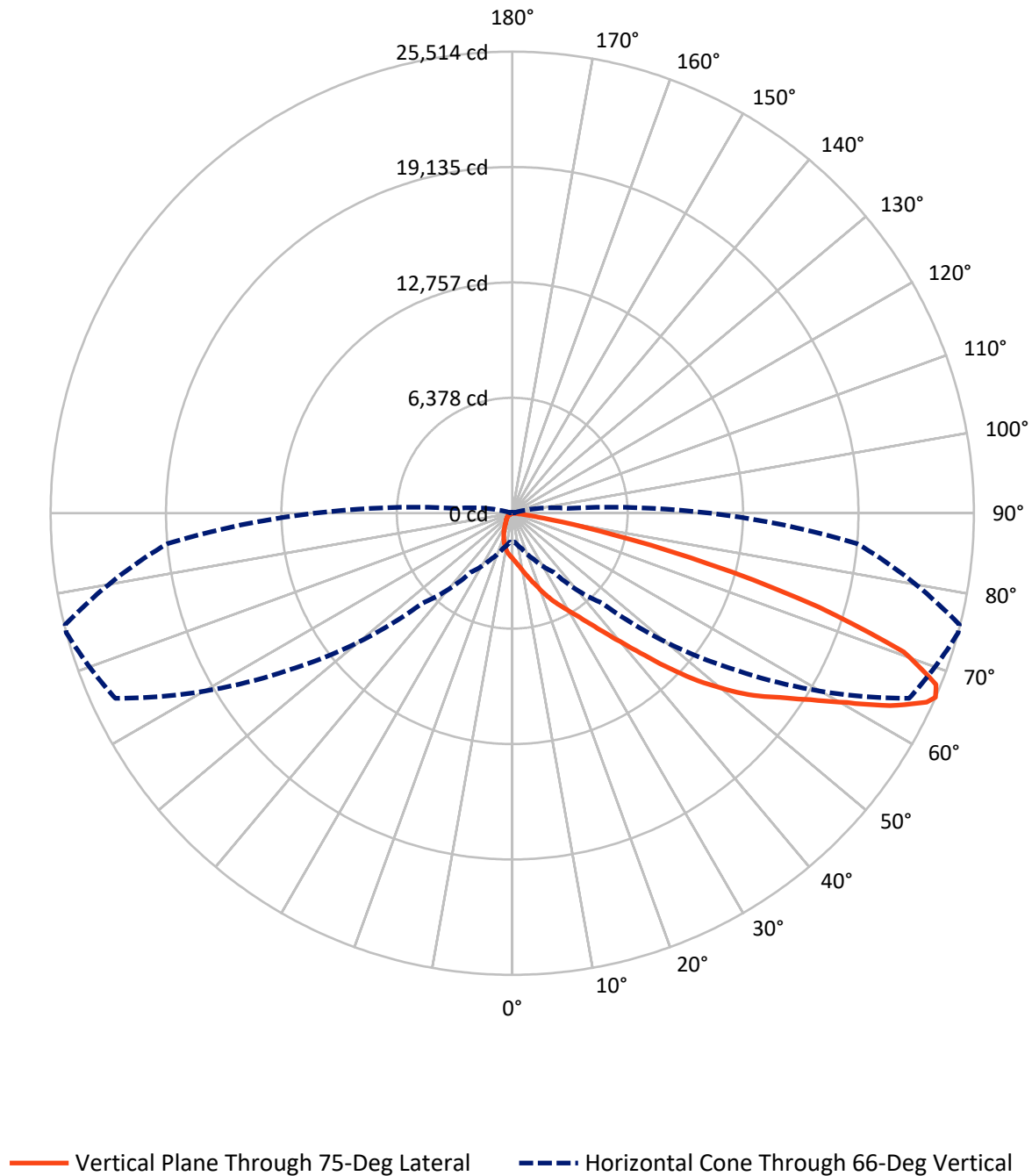


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P457602

CATALOG NUMBER: GLAN-SA9A-722-U-T2-HSS

## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1406.5   | 0.0    | 1406.5  |
|                    | % Fixture | 6.2      | 0.0    | 6.2     |
| <b>Street Side</b> | Lumens    | 21376.5  | 0.0    | 21376.5 |
|                    | % Fixture | 93.8     | 0.0    | 93.8    |
| <b>Total</b>       | Lumens    | 22783.0  | 0.0    | 22783.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 240.3   | 1.1       |
| 10°-20°   | 707.3   | 3.1       |
| 20°-30°   | 1221.3  | 5.4       |
| 30°-40°   | 2202.9  | 9.7       |
| 40°-50°   | 3979.6  | 17.5      |
| 50°-60°   | 6204.3  | 27.2      |
| 60°-70°   | 5893.8  | 25.9      |
| 70°-80°   | 2208.9  | 9.7       |
| 80°-90°   | 124.6   | 0.5       |
| 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°    | 22783.0 | 100.0     |
| 0°-180°   | 22783.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P457602

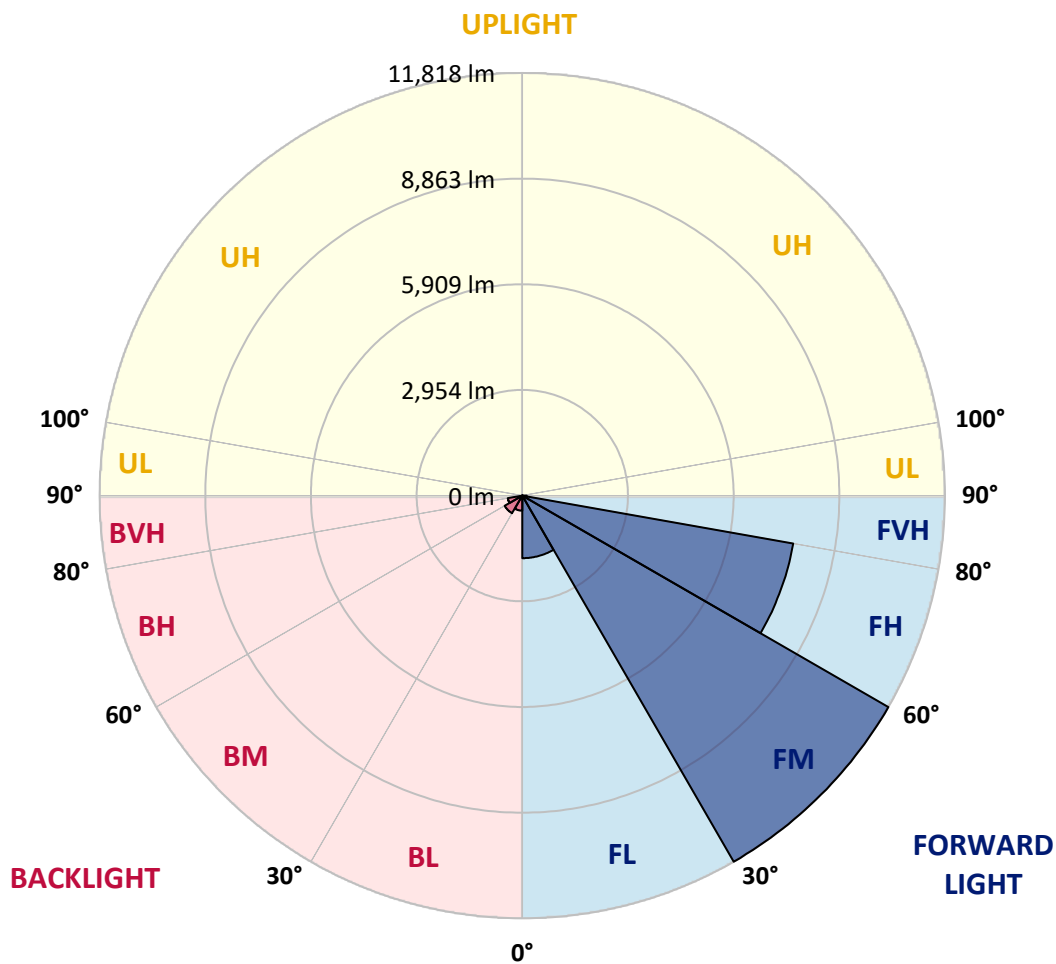
CATALOG NUMBER: GLAN-SA9A-722-U-T2-HSS

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1748.8  | 7.7       |                         |      |          |
| FM   | (30°-60°)   | 11817.5 | 51.9      |                         |      |          |
| FH   | (60°-80°)   | 7692.0  | 33.8      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 118.2   | 0.5       |                         |      | G2/225   |
| BL   | (0°-30°)    | 420.1   | 1.8       | B1/500                  |      |          |
| BM   | (30°-60°)   | 569.3   | 2.5       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 410.7   | 1.8       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 6.4     | 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-G4**

Type II Short



REPORT NUMBER: P457602

CATALOG NUMBER: GLAN-SA9A-722-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2491.5  | 2491.5  | 2491.5  | 2491.5  | 2491.5  | 2491.5  | 2491.5  | 2491.5  | 2491.5  | 2491.5  | 2491.5  |
| 2.5°  | 2976.7  | 2939.7  | 2951.4  | 2934.6  | 2895.9  | 2838.6  | 2788.0  | 2715.6  | 2643.2  | 2631.4  | 2550.5  |
| 5°    | 3369.2  | 3359.1  | 3345.6  | 3296.8  | 3269.8  | 3182.2  | 3077.8  | 2953.1  | 2803.2  | 2776.2  | 2629.7  |
| 7.5°  | 3637.1  | 3632.0  | 3638.8  | 3613.5  | 3589.9  | 3510.7  | 3399.6  | 3229.4  | 2996.9  | 2981.8  | 2737.5  |
| 10°   | 3724.7  | 3738.2  | 3763.4  | 3803.9  | 3840.9  | 3815.7  | 3731.4  | 3519.2  | 3247.9  | 3204.1  | 2860.5  |
| 12.5° | 3674.1  | 3689.3  | 3750.0  | 3857.8  | 3977.4  | 4046.4  | 4012.8  | 3857.8  | 3514.1  | 3478.7  | 2998.6  |
| 15°   | 3544.4  | 3563.0  | 3648.9  | 3815.7  | 4029.6  | 4225.0  | 4309.2  | 4198.1  | 3824.1  | 3766.8  | 3165.4  |
| 17.5° | 3352.4  | 3379.3  | 3502.3  | 3723.0  | 4016.1  | 4353.0  | 4590.6  | 4553.5  | 4154.3  | 4100.4  | 3347.3  |
| 20°   | 3207.5  | 3227.7  | 3332.2  | 3584.9  | 3958.8  | 4423.8  | 4858.4  | 4962.9  | 4561.9  | 4469.3  | 3561.3  |
| 22.5° | 3303.5  | 3310.3  | 3345.6  | 3497.3  | 3856.1  | 4442.3  | 5094.3  | 5389.1  | 4994.9  | 4912.3  | 3783.6  |
| 25°   | 3773.5  | 3706.2  | 3670.8  | 3637.1  | 3834.2  | 4425.5  | 5308.2  | 5833.8  | 5426.1  | 5338.5  | 4004.3  |
| 27.5° | 4514.8  | 4484.4  | 4305.9  | 4066.7  | 4021.2  | 4447.4  | 5449.7  | 6255.0  | 5832.1  | 5737.8  | 4220.0  |
| 30°   | 5321.7  | 5269.5  | 5160.0  | 4809.6  | 4457.5  | 4602.4  | 5552.5  | 6664.3  | 6312.3  | 6187.6  | 4417.1  |
| 32.5° | 6062.9  | 6096.6  | 5933.2  | 5572.7  | 5165.0  | 4932.6  | 5685.6  | 7110.8  | 6863.1  | 6708.1  | 4646.2  |
| 35°   | 6927.1  | 6994.5  | 6743.5  | 6398.2  | 5921.4  | 5528.9  | 5945.0  | 7614.5  | 7562.2  | 7366.8  | 4999.9  |
| 37.5° | 7804.8  | 7845.3  | 7692.0  | 7206.8  | 6777.2  | 6287.0  | 6433.5  | 8236.1  | 8423.1  | 8256.3  | 5422.8  |
| 40°   | 8542.7  | 8598.3  | 8485.4  | 8054.1  | 7595.9  | 7164.7  | 7142.8  | 8913.3  | 9447.3  | 9275.5  | 6052.8  |
| 42.5° | 9107.0  | 9149.1  | 9152.5  | 8847.6  | 8434.9  | 8239.5  | 8047.4  | 9777.5  | 10731.0 | 10532.2 | 6783.9  |
| 45°   | 9819.6  | 9880.3  | 9844.9  | 9637.7  | 9329.4  | 9294.0  | 9194.6  | 10822.0 | 12267.4 | 12016.4 | 7732.4  |
| 47.5° | 10921.4 | 10961.8 | 10874.2 | 10629.9 | 10316.6 | 10372.2 | 10313.2 | 11992.8 | 13834.1 | 13618.4 | 8714.5  |
| 50°   | 11686.2 | 11753.6 | 11878.2 | 11975.9 | 11748.5 | 11543.0 | 11367.8 | 13086.1 | 15321.6 | 15127.8 | 9718.5  |
| 52.5° | 11677.8 | 11788.9 | 12183.1 | 12675.0 | 13172.0 | 13109.7 | 12606.0 | 14294.0 | 16741.7 | 16502.5 | 10661.9 |
| 55°   | 10891.0 | 11106.7 | 11686.2 | 12558.8 | 13935.1 | 14620.8 | 14391.7 | 15692.2 | 17968.1 | 17806.4 | 11755.2 |
| 57.5° | 9267.1  | 9398.5  | 10203.7 | 11423.4 | 13508.9 | 15331.7 | 16460.4 | 17587.4 | 19438.8 | 19363.0 | 13453.3 |
| 60°   | 6233.1  | 6292.0  | 7328.1  | 8835.8  | 11500.9 | 14622.5 | 17976.5 | 19880.1 | 21249.7 | 21212.7 | 15436.1 |
| 62.5° | 3571.4  | 3596.7  | 4348.0  | 5619.9  | 8183.9  | 12392.0 | 18104.6 | 22708.6 | 23421.2 | 23441.4 | 17730.6 |
| 65°   | 1922.1  | 1935.6  | 2542.1  | 3298.5  | 4979.7  | 8832.4  | 16280.1 | 24258.5 | 25176.6 | 25215.3 | 19152.4 |
| 66°   | 1659.3  | 1595.3  | 2023.2  | 2811.6  | 3962.2  | 7029.9  | 15126.2 | 24202.9 | 25513.5 | 25471.4 | 19101.9 |
| 67.5° | 1261.8  | 1319.1  | 1615.5  | 2161.4  | 2936.3  | 4998.3  | 12488.1 | 23126.4 | 25257.4 | 25126.0 | 18325.2 |
| 70°   | 903.0   | 926.5   | 1150.6  | 1541.4  | 1999.6  | 2742.6  | 7980.0  | 19208.0 | 22956.3 | 22779.4 | 15965.1 |
| 72.5° | 582.9   | 608.1   | 815.4   | 1115.2  | 1445.4  | 1497.6  | 4467.6  | 13877.9 | 17698.6 | 17673.3 | 12023.1 |
| 75°   | 416.1   | 439.7   | 539.1   | 798.5   | 1086.6  | 926.5   | 2151.3  | 9353.0  | 11251.5 | 11175.7 | 7437.6  |
| 77.5° | 301.5   | 313.3   | 360.5   | 522.2   | 776.6   | 663.7   | 997.3   | 4994.9  | 5601.3  | 5865.8  | 3286.7  |
| 80°   | 173.5   | 183.6   | 251.0   | 318.4   | 525.6   | 453.2   | 476.7   | 2004.7  | 2067.0  | 1967.6  | 1027.6  |
| 82.5° | 85.9    | 97.7    | 149.9   | 217.3   | 328.5   | 304.9   | 219.0   | 603.1   | 636.8   | 619.9   | 259.4   |
| 85°   | 20.2    | 25.3    | 84.2    | 143.2   | 160.0   | 136.5   | 106.1   | 176.9   | 219.0   | 213.9   | 99.4    |
| 87.5° | 1.7     | 3.4     | 30.3    | 25.3    | 27.0    | 45.5    | 37.1    | 45.5    | 70.8    | 65.7    | 35.4    |
| 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: P457602

CATALOG NUMBER: GLAN-SA9A-722-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2491.5  | 2491.5 | 2491.5 | 2491.5 | 2491.5 | 2491.5 | 2491.5 | 2491.5 | 2491.5 | 2491.5 | 2491.5 |
| 2.5°  | 2513.4  | 2481.4 | 2388.8 | 2297.8 | 2222.0 | 2142.8 | 2070.4 | 2028.3 | 2011.4 | 1992.9 | 2001.3 |
| 5°    | 2548.8  | 2471.3 | 2284.3 | 2122.6 | 1964.3 | 1829.5 | 1721.7 | 1652.6 | 1618.9 | 1613.9 | 1605.4 |
| 7.5°  | 2596.0  | 2462.9 | 2173.2 | 1920.5 | 1713.3 | 1563.3 | 1440.3 | 1341.0 | 1310.6 | 1283.7 | 1261.8 |
| 10°   | 2653.3  | 2447.7 | 2035.0 | 1708.2 | 1487.5 | 1298.8 | 1137.1 | 1019.2 | 958.5  | 941.7  | 953.5  |
| 12.5° | 2713.9  | 2419.1 | 1890.1 | 1512.8 | 1258.4 | 1017.5 | 867.6  | 808.6  | 791.8  | 785.0  | 786.7  |
| 15°   | 2774.6  | 2383.7 | 1738.5 | 1324.1 | 1002.3 | 812.0  | 742.9  | 727.8  | 721.0  | 717.6  | 714.3  |
| 17.5° | 2830.2  | 2326.5 | 1568.4 | 1140.5 | 812.0  | 694.1  | 668.8  | 655.3  | 641.8  | 636.8  | 628.4  |
| 20°   | 2895.9  | 2260.8 | 1415.1 | 935.0  | 687.3  | 628.4  | 598.0  | 572.8  | 552.6  | 539.1  | 537.4  |
| 22.5° | 2958.2  | 2176.5 | 1255.0 | 774.9  | 626.7  | 564.3  | 515.5  | 488.5  | 465.0  | 448.1  | 453.2  |
| 25°   | 2991.9  | 2073.8 | 1111.8 | 675.5  | 571.1  | 500.3  | 446.4  | 412.7  | 387.5  | 379.0  | 377.4  |
| 27.5° | 2991.9  | 1947.4 | 972.0  | 618.3  | 520.5  | 443.1  | 387.5  | 355.5  | 338.6  | 326.8  | 328.5  |
| 30°   | 2968.3  | 1807.6 | 842.3  | 574.5  | 476.7  | 392.5  | 340.3  | 311.7  | 298.2  | 289.8  | 288.1  |
| 32.5° | 2949.8  | 1674.5 | 731.1  | 532.3  | 431.3  | 348.7  | 303.2  | 281.3  | 267.9  | 259.4  | 259.4  |
| 35°   | 2978.4  | 1560.0 | 645.2  | 490.2  | 389.1  | 315.0  | 274.6  | 254.4  | 240.9  | 234.2  | 232.5  |
| 37.5° | 3054.2  | 1455.5 | 579.5  | 444.7  | 350.4  | 286.4  | 254.4  | 230.8  | 217.3  | 208.9  | 205.5  |
| 40°   | 3241.2  | 1396.5 | 530.7  | 402.6  | 313.3  | 262.8  | 230.8  | 208.9  | 192.0  | 183.6  | 181.9  |
| 42.5° | 3541.1  | 1398.2 | 483.5  | 363.9  | 284.7  | 242.6  | 210.6  | 185.3  | 166.8  | 158.4  | 156.7  |
| 45°   | 3992.5  | 1462.2 | 446.4  | 326.8  | 259.4  | 220.7  | 188.7  | 161.7  | 144.9  | 136.5  | 136.5  |
| 47.5° | 4533.3  | 1586.9 | 414.4  | 294.8  | 235.8  | 200.5  | 166.8  | 139.8  | 123.0  | 116.2  | 116.2  |
| 50°   | 5119.5  | 1748.6 | 382.4  | 261.1  | 215.6  | 178.6  | 143.2  | 121.3  | 107.8  | 102.8  | 102.8  |
| 52.5° | 5717.6  | 1944.0 | 350.4  | 234.2  | 193.7  | 155.0  | 123.0  | 107.8  | 96.0   | 92.7   | 91.0   |
| 55°   | 6502.6  | 2193.4 | 316.7  | 205.5  | 170.1  | 133.1  | 109.5  | 94.3   | 80.9   | 75.8   | 74.1   |
| 57.5° | 7710.5  | 2569.0 | 279.6  | 180.3  | 139.8  | 111.2  | 94.3   | 79.2   | 64.0   | 55.6   | 53.9   |
| 60°   | 9167.7  | 3027.3 | 240.9  | 158.4  | 112.9  | 91.0   | 75.8   | 60.6   | 47.2   | 37.1   | 35.4   |
| 62.5° | 10532.2 | 3318.7 | 203.8  | 133.1  | 89.3   | 69.1   | 53.9   | 45.5   | 33.7   | 23.6   | 21.9   |
| 65°   | 11135.3 | 3221.0 | 168.5  | 107.8  | 70.8   | 48.9   | 35.4   | 32.0   | 20.2   | 10.1   | 8.4    |
| 66°   | 10934.8 | 3076.1 | 155.0  | 97.7   | 64.0   | 42.1   | 30.3   | 27.0   | 15.2   | 5.1    | 5.1    |
| 67.5° | 10343.5 | 2734.1 | 134.8  | 84.2   | 55.6   | 33.7   | 23.6   | 20.2   | 8.4    | 1.7    | 0.0    |
| 70°   | 8862.8  | 2211.9 | 106.1  | 62.3   | 40.4   | 23.6   | 13.5   | 10.1   | 5.1    | 0.0    | 0.0    |
| 72.5° | 6807.5  | 1647.6 | 84.2   | 47.2   | 28.6   | 13.5   | 6.7    | 3.4    | 5.1    | 0.0    | 0.0    |
| 75°   | 4171.1  | 941.7  | 65.7   | 35.4   | 18.5   | 8.4    | 5.1    | 0.0    | 5.1    | 1.7    | 0.0    |
| 77.5° | 1851.4  | 422.8  | 43.8   | 23.6   | 13.5   | 6.7    | 3.4    | 0.0    | 3.4    | 1.7    | 0.0    |
| 80°   | 468.3   | 138.1  | 25.3   | 16.8   | 10.1   | 5.1    | 1.7    | 0.0    | 3.4    | 3.4    | 1.7    |
| 82.5° | 128.0   | 50.5   | 18.5   | 13.5   | 8.4    | 5.1    | 1.7    | 0.0    | 3.4    | 3.4    | 3.4    |
| 85°   | 50.5    | 23.6   | 16.8   | 13.5   | 10.1   | 5.1    | 1.7    | 0.0    | 3.4    | 3.4    | 3.4    |
| 87.5° | 23.6    | 16.8   | 16.8   | 15.2   | 11.8   | 5.1    | 1.7    | 0.0    | 3.4    | 1.7    | 3.4    |
| 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)