

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: P450875

Luminaire Tested: **GLAN-SA1D-722-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450875  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1D-722-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2200K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5787 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 65  
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

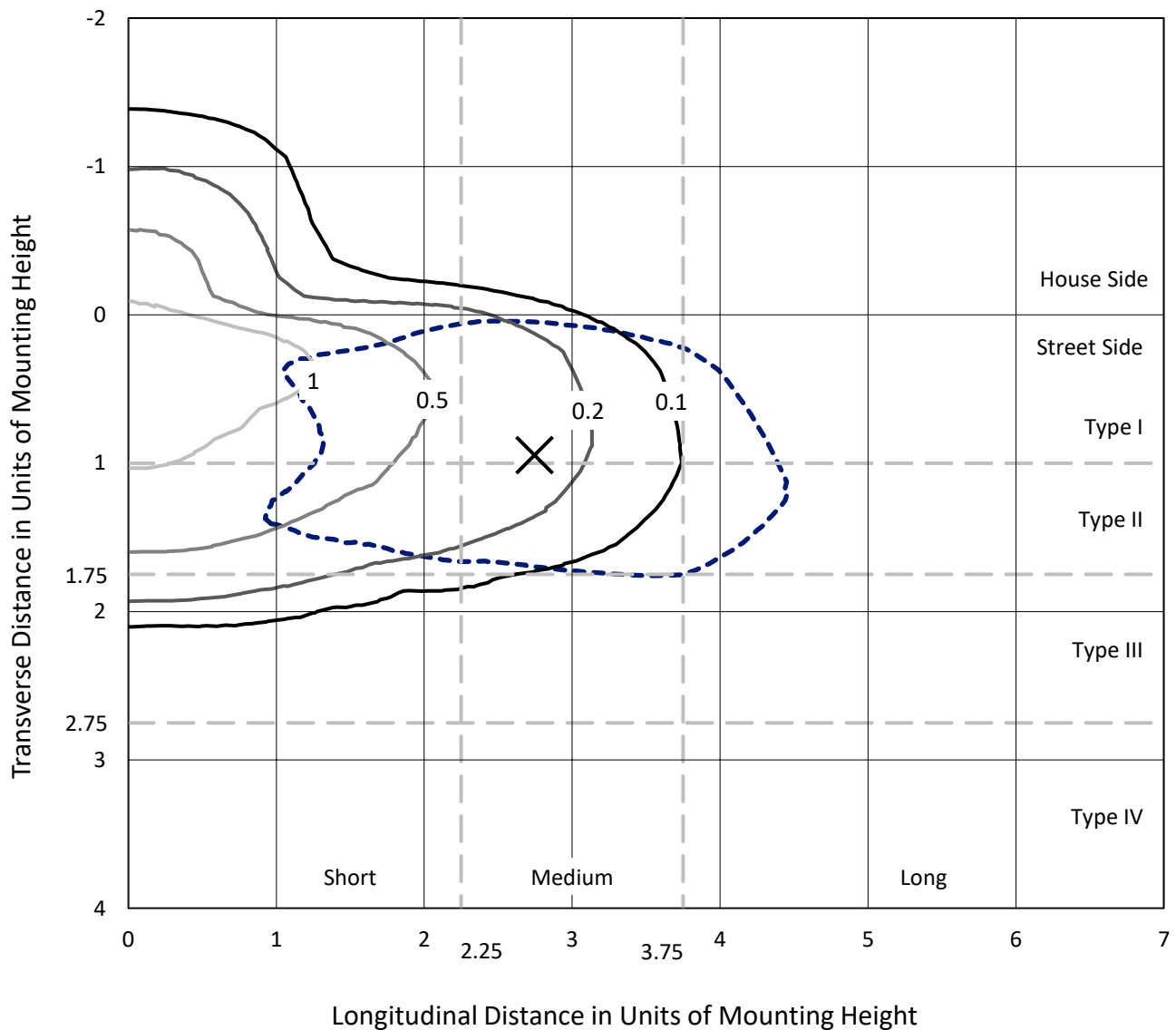


REPORT NUMBER: P450875

CATALOG NUMBER: GLAN-SA1D-722-U-T2

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

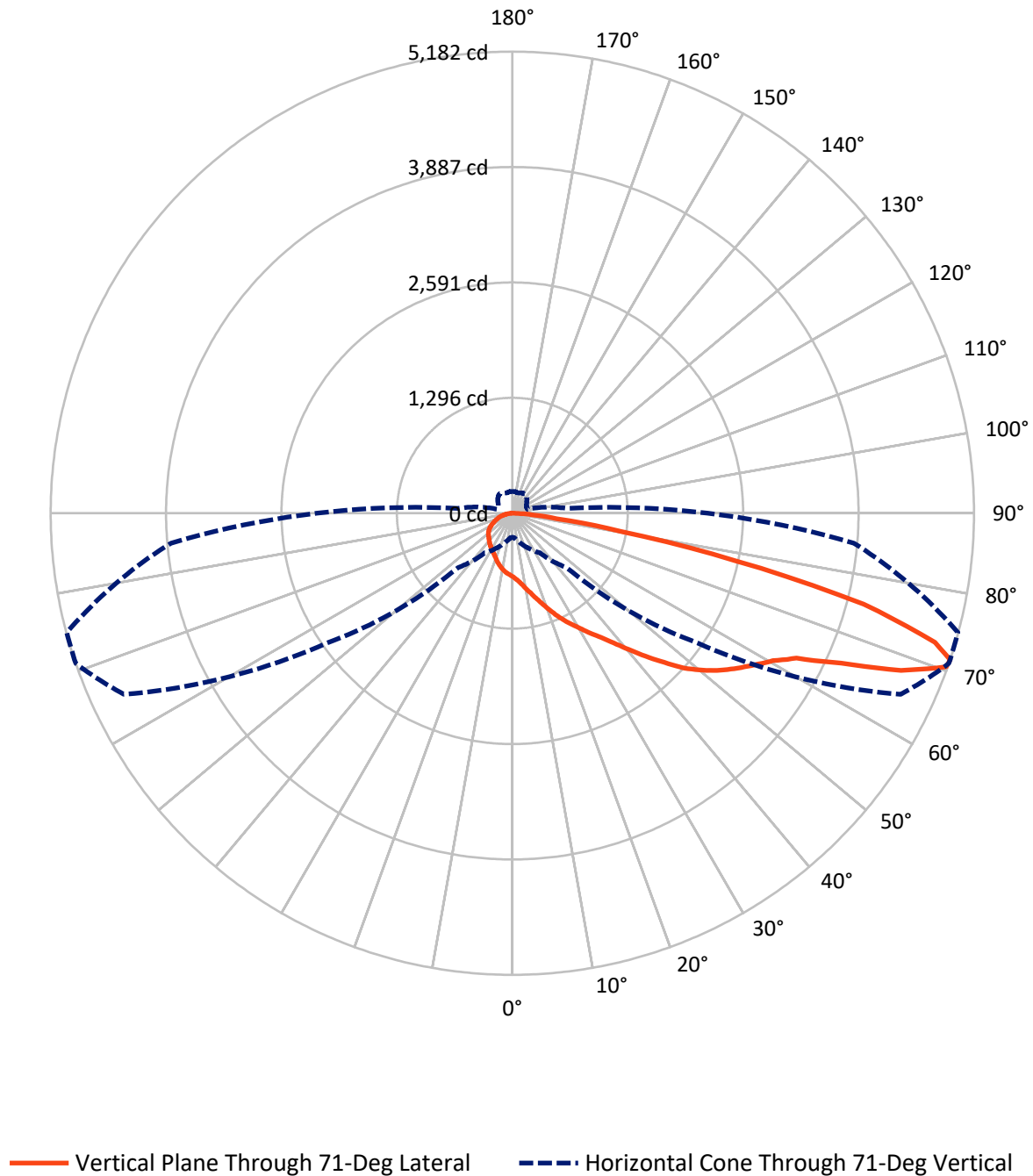


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type II - Medium - N/A

REPORT NUMBER: P450875

CATALOG NUMBER: GLAN-SA1D-722-U-T2

## Luminous Intensity Polar Plot



REPORT NUMBER: P450875

CATALOG NUMBER: GLAN-SA1D-722-U-T2

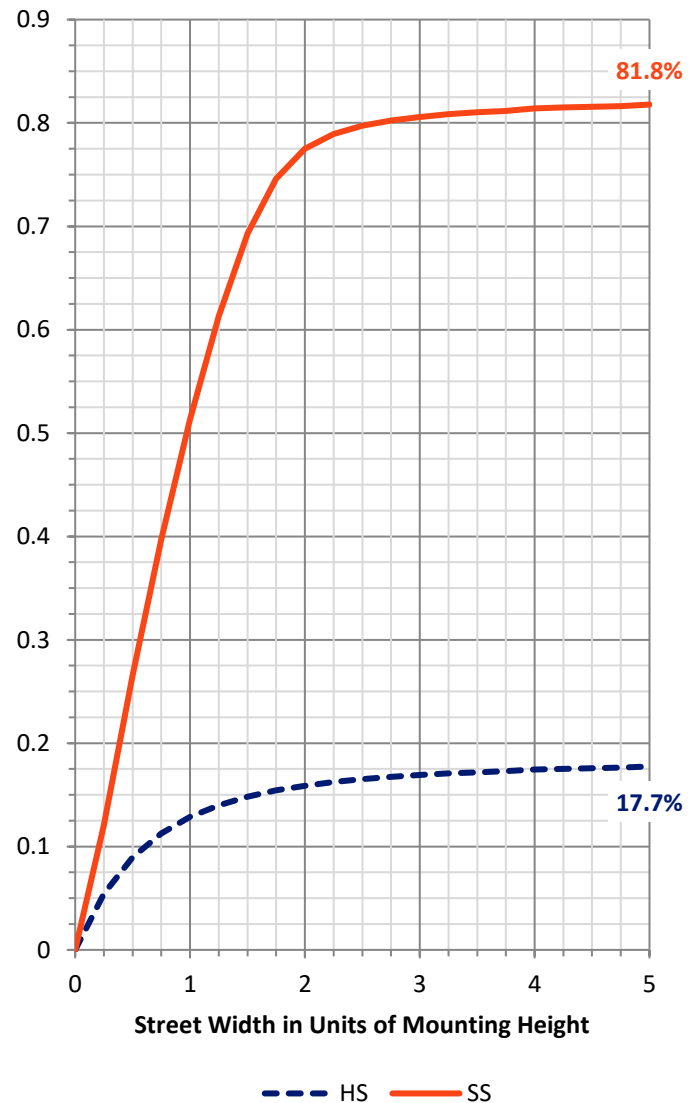
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1040.8   | 0.0    | 1040.8 |
|                    | % Fixture | 18.0     | 0.0    | 18.0   |
| <b>Street Side</b> | Lumens    | 4746.2   | 0.0    | 4746.2 |
|                    | % Fixture | 82.0     | 0.0    | 82.0   |
| <b>Total</b>       | Lumens    | 5787.0   | 0.0    | 5787.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 71.3   | 1.2       |
| 10°-20°   | 231.7  | 4.0       |
| 20°-30°   | 404.9  | 7.0       |
| 30°-40°   | 602.2  | 10.4      |
| 40°-50°   | 887.3  | 15.3      |
| 50°-60°   | 1242.2 | 21.5      |
| 60°-70°   | 1389.4 | 24.0      |
| 70°-80°   | 848.7  | 14.7      |
| 80°-90°   | 109.2  | 1.9       |
| 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°    | 5787.0 | 100.0     |
| 0°-180°   | 5787.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P450875

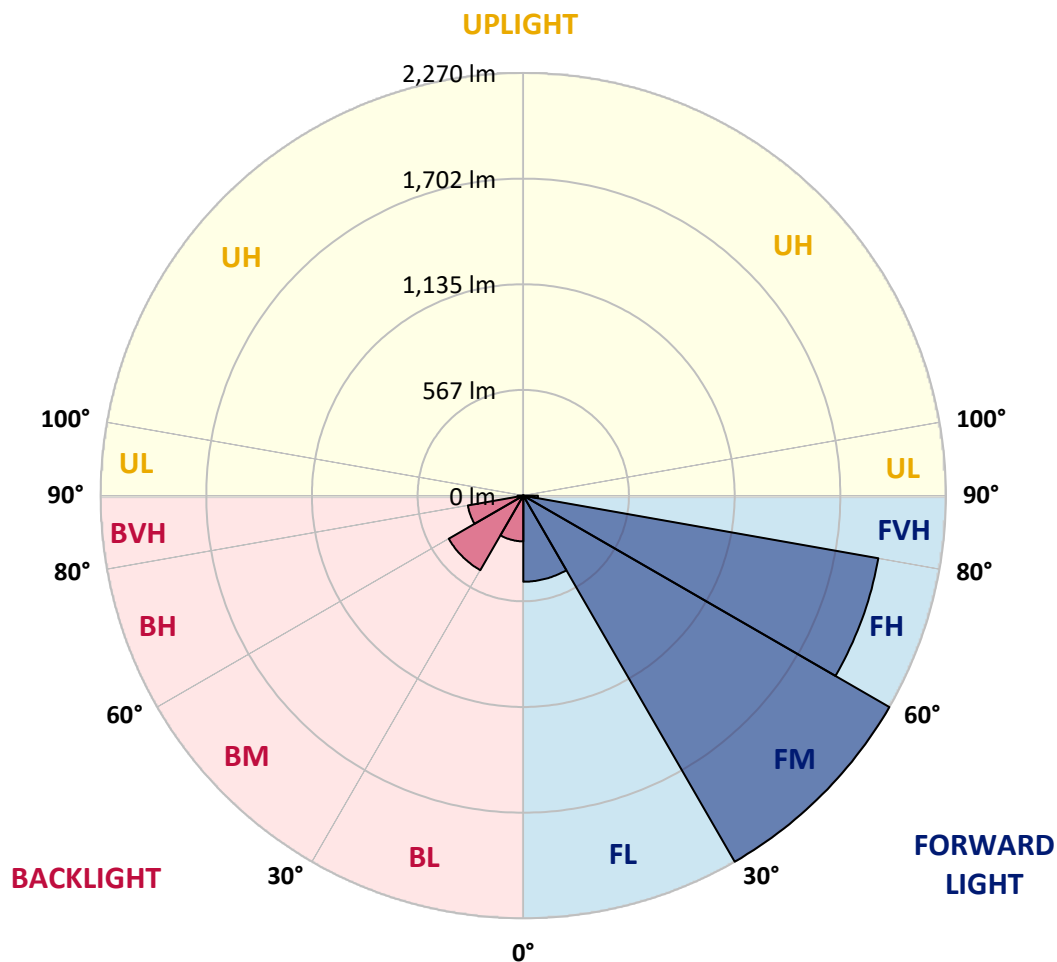
CATALOG NUMBER: GLAN-SA1D-722-U-T2

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 462.4  | 8.0       |                         |      |         |
| FM   | (30°-60°)   | 2269.5 | 39.2      |                         |      |         |
| FH   | (60°-80°)   | 1935.7 | 33.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 78.6   | 1.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 245.5  | 4.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 462.2  | 8.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 302.4  | 5.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 30.6   | 0.5       |                         |      | G1/100  |
| 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 Medium



REPORT NUMBER: P450875

CATALOG NUMBER: GLAN-SA1D-722-U-T2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 71°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 710.2  | 710.2  | 710.2  | 710.2  | 710.2  | 710.2  | 710.2  | 710.2  | 710.2  | 710.2  | 710.2  |
| 2.5°  | 788.5  | 784.7  | 785.0  | 779.6  | 772.6  | 764.9  | 754.1  | 744.6  | 737.0  | 732.5  | 719.5  |
| 5°    | 873.7  | 869.9  | 865.1  | 853.4  | 848.3  | 829.5  | 805.7  | 784.0  | 767.5  | 758.3  | 732.2  |
| 7.5°  | 942.7  | 941.8  | 940.5  | 933.8  | 920.8  | 894.7  | 874.4  | 836.8  | 812.3  | 794.8  | 750.3  |
| 10°   | 985.4  | 987.0  | 987.9  | 989.2  | 983.8  | 970.1  | 942.1  | 894.7  | 863.5  | 841.3  | 773.9  |
| 12.5° | 1007.0 | 1008.6 | 1014.0 | 1025.8 | 1033.1 | 1031.5 | 1008.6 | 962.1  | 919.2  | 889.9  | 799.0  |
| 15°   | 1020.4 | 1022.9 | 1032.4 | 1048.0 | 1072.5 | 1088.1 | 1077.0 | 1034.0 | 987.0  | 952.3  | 828.9  |
| 17.5° | 1035.0 | 1037.8 | 1048.3 | 1070.6 | 1102.7 | 1136.4 | 1148.5 | 1111.6 | 1060.4 | 1019.1 | 862.3  |
| 20°   | 1043.3 | 1047.1 | 1062.0 | 1091.3 | 1128.8 | 1177.8 | 1217.9 | 1198.5 | 1142.5 | 1096.7 | 900.8  |
| 22.5° | 1056.6 | 1059.8 | 1072.5 | 1103.7 | 1148.5 | 1209.9 | 1287.2 | 1283.1 | 1233.8 | 1174.6 | 943.1  |
| 25°   | 1092.9 | 1098.0 | 1104.3 | 1123.1 | 1166.3 | 1242.7 | 1344.8 | 1373.4 | 1322.2 | 1256.0 | 981.9  |
| 27.5° | 1161.3 | 1165.4 | 1165.1 | 1167.6 | 1192.1 | 1271.0 | 1394.7 | 1462.8 | 1410.0 | 1338.4 | 1019.4 |
| 30°   | 1239.2 | 1240.8 | 1242.0 | 1236.3 | 1241.7 | 1299.9 | 1440.5 | 1551.2 | 1498.4 | 1423.0 | 1052.2 |
| 32.5° | 1334.0 | 1337.1 | 1326.3 | 1311.7 | 1307.2 | 1342.9 | 1478.4 | 1639.6 | 1603.0 | 1508.9 | 1084.6 |
| 35°   | 1445.9 | 1454.2 | 1432.2 | 1406.5 | 1388.4 | 1404.6 | 1529.3 | 1730.0 | 1710.2 | 1618.6 | 1127.5 |
| 37.5° | 1573.8 | 1584.0 | 1563.6 | 1513.0 | 1487.3 | 1491.7 | 1595.7 | 1841.6 | 1845.7 | 1743.6 | 1191.5 |
| 40°   | 1678.4 | 1691.8 | 1692.4 | 1620.9 | 1581.7 | 1586.8 | 1680.0 | 1961.8 | 2009.2 | 1898.2 | 1266.9 |
| 42.5° | 1747.5 | 1760.5 | 1774.2 | 1732.2 | 1691.2 | 1720.1 | 1778.3 | 2092.2 | 2193.1 | 2085.9 | 1372.1 |
| 45°   | 1823.2 | 1834.9 | 1842.6 | 1823.5 | 1800.6 | 1875.6 | 1896.9 | 2230.9 | 2389.0 | 2295.5 | 1487.3 |
| 47.5° | 1910.9 | 1924.0 | 1931.3 | 1913.2 | 1904.6 | 2012.1 | 2024.8 | 2360.4 | 2598.3 | 2499.0 | 1614.5 |
| 50°   | 2028.0 | 2037.8 | 2034.0 | 2022.6 | 2020.7 | 2116.7 | 2147.6 | 2481.5 | 2771.0 | 2718.2 | 1746.5 |
| 52.5° | 2173.7 | 2185.4 | 2189.6 | 2173.3 | 2166.0 | 2191.5 | 2246.5 | 2591.9 | 2928.1 | 2906.5 | 1887.4 |
| 55°   | 2261.8 | 2280.5 | 2343.5 | 2369.0 | 2386.4 | 2288.2 | 2353.0 | 2713.7 | 3069.0 | 3105.0 | 2038.8 |
| 57.5° | 2148.9 | 2173.0 | 2313.9 | 2441.2 | 2605.6 | 2529.9 | 2504.1 | 2841.0 | 3209.9 | 3297.4 | 2220.1 |
| 60°   | 1873.4 | 1878.8 | 2060.4 | 2294.8 | 2625.6 | 2840.6 | 2819.3 | 3043.3 | 3362.6 | 3491.4 | 2459.0 |
| 62.5° | 1299.6 | 1311.1 | 1525.8 | 1899.8 | 2378.2 | 2952.6 | 3355.6 | 3392.5 | 3581.4 | 3781.8 | 2809.2 |
| 65°   | 670.2  | 655.2  | 850.8  | 1194.0 | 1792.9 | 2686.7 | 3790.1 | 4034.7 | 4056.0 | 4236.0 | 3302.2 |
| 67.5° | 412.5  | 419.2  | 510.8  | 697.2  | 1060.1 | 1952.6 | 3744.6 | 4819.3 | 4707.1 | 4793.6 | 3759.9 |
| 70°   | 309.8  | 318.1  | 381.0  | 477.1  | 646.3  | 1116.4 | 3011.4 | 5009.5 | 5166.3 | 5144.1 | 3899.2 |
| 71°   | 269.4  | 278.0  | 343.5  | 434.2  | 542.9  | 861.6  | 2537.2 | 4810.4 | 5182.2 | 5178.4 | 3846.7 |
| 72.5° | 229.6  | 235.1  | 286.3  | 367.7  | 457.7  | 604.0  | 1906.2 | 4314.2 | 4961.2 | 5088.1 | 3659.3 |
| 75°   | 180.3  | 184.5  | 207.4  | 280.5  | 360.4  | 370.9  | 1022.9 | 3234.4 | 4074.7 | 4316.5 | 3046.4 |
| 77.5° | 146.9  | 149.8  | 161.6  | 208.3  | 278.0  | 262.7  | 536.6  | 2105.3 | 2552.8 | 2796.1 | 1794.5 |
| 80°   | 116.7  | 119.9  | 126.9  | 141.2  | 208.3  | 187.3  | 256.0  | 1066.8 | 1233.1 | 1230.6 | 716.3  |
| 82.5° | 90.6   | 91.6   | 99.9   | 103.7  | 142.5  | 133.0  | 138.7  | 451.7  | 500.3  | 516.9  | 258.6  |
| 85°   | 57.3   | 60.1   | 88.4   | 79.5   | 85.2   | 77.9   | 68.4   | 179.4  | 221.1  | 217.9  | 103.4  |
| 87.5° | 17.5   | 18.4   | 29.9   | 33.7   | 37.8   | 34.0   | 25.1   | 52.8   | 64.6   | 70.0   | 25.8   |
| 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: P450875

CATALOG NUMBER: GLAN-SA1D-722-U-T2

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 710.2  | 710.2 | 710.2 | 710.2 | 710.2 | 710.2 | 710.2 | 710.2 | 710.2 | 710.2 | 710.2 |
| 2.5°  | 714.4  | 710.9 | 698.5 | 688.3 | 678.8 | 668.3 | 659.3 | 656.8 | 654.6 | 653.6 | 653.3 |
| 5°    | 721.1  | 710.6 | 686.1 | 666.0 | 650.1 | 635.5 | 626.3 | 622.1 | 618.0 | 618.0 | 619.3 |
| 7.5°  | 730.6  | 711.5 | 673.7 | 643.8 | 623.7 | 610.0 | 603.4 | 602.7 | 603.7 | 604.6 | 605.0 |
| 10°   | 741.1  | 710.9 | 655.5 | 618.3 | 600.5 | 594.1 | 594.5 | 599.9 | 605.0 | 608.8 | 609.4 |
| 12.5° | 751.3  | 707.1 | 634.2 | 594.5 | 583.0 | 584.3 | 593.2 | 605.3 | 615.1 | 620.5 | 620.9 |
| 15°   | 762.7  | 701.0 | 608.5 | 571.9 | 568.1 | 577.9 | 594.5 | 612.9 | 627.9 | 636.8 | 637.7 |
| 17.5° | 772.3  | 690.8 | 581.4 | 549.9 | 554.7 | 572.8 | 595.7 | 619.6 | 637.7 | 648.9 | 650.8 |
| 20°   | 783.1  | 677.8 | 553.4 | 528.9 | 542.6 | 567.1 | 593.2 | 619.0 | 637.7 | 648.5 | 651.1 |
| 22.5° | 791.7  | 659.3 | 526.7 | 511.8 | 531.8 | 560.1 | 584.6 | 605.3 | 620.5 | 626.3 | 630.1 |
| 25°   | 795.2  | 636.1 | 501.6 | 497.8 | 523.2 | 548.7 | 565.2 | 577.0 | 581.7 | 581.1 | 582.7 |
| 27.5° | 793.3  | 609.4 | 480.0 | 486.6 | 512.4 | 530.9 | 539.1 | 538.2 | 529.6 | 521.6 | 525.4 |
| 30°   | 785.3  | 577.6 | 461.8 | 475.2 | 498.4 | 508.6 | 507.3 | 494.9 | 478.7 | 463.7 | 464.7 |
| 32.5° | 771.0  | 543.3 | 445.0 | 462.1 | 478.7 | 483.1 | 474.6 | 458.3 | 435.1 | 415.7 | 412.8 |
| 35°   | 758.9  | 510.5 | 430.0 | 447.2 | 459.0 | 456.7 | 448.5 | 427.5 | 406.5 | 389.3 | 386.4 |
| 37.5° | 757.0  | 482.5 | 415.7 | 430.3 | 437.0 | 433.8 | 423.7 | 405.9 | 398.2 | 385.2 | 383.6 |
| 40°   | 767.2  | 462.8 | 401.1 | 412.5 | 415.7 | 413.2 | 402.0 | 391.9 | 398.9 | 395.7 | 395.7 |
| 42.5° | 794.8  | 452.3 | 388.0 | 394.7 | 397.3 | 399.2 | 391.2 | 382.6 | 391.2 | 376.6 | 371.8 |
| 45°   | 838.7  | 452.6 | 376.3 | 377.2 | 384.9 | 391.5 | 386.1 | 373.4 | 369.0 | 339.7 | 334.0 |
| 47.5° | 903.3  | 463.4 | 366.7 | 360.7 | 374.4 | 385.5 | 377.9 | 359.4 | 339.7 | 320.3 | 316.8 |
| 50°   | 978.7  | 482.8 | 358.1 | 343.5 | 360.4 | 377.9 | 372.1 | 350.5 | 330.2 | 318.4 | 316.2 |
| 52.5° | 1062.3 | 507.3 | 347.6 | 324.4 | 343.2 | 374.4 | 373.4 | 349.2 | 321.2 | 313.3 | 311.4 |
| 55°   | 1165.7 | 531.5 | 334.6 | 302.2 | 327.9 | 371.5 | 369.9 | 338.7 | 319.3 | 313.6 | 313.0 |
| 57.5° | 1285.9 | 566.5 | 315.8 | 279.6 | 310.4 | 359.7 | 356.2 | 332.4 | 313.0 | 308.8 | 308.5 |
| 60°   | 1479.6 | 620.9 | 289.1 | 258.9 | 292.6 | 339.1 | 343.5 | 321.6 | 302.8 | 301.8 | 301.5 |
| 62.5° | 1734.4 | 697.2 | 261.4 | 237.6 | 271.9 | 312.3 | 325.1 | 306.9 | 292.0 | 296.8 | 297.4 |
| 65°   | 2086.2 | 761.4 | 232.8 | 219.5 | 249.0 | 286.6 | 307.6 | 293.3 | 279.9 | 289.1 | 289.1 |
| 67.5° | 2315.5 | 762.7 | 206.7 | 200.7 | 225.8 | 264.9 | 289.1 | 277.0 | 264.3 | 279.9 | 280.5 |
| 70°   | 2267.8 | 668.3 | 185.1 | 181.0 | 203.2 | 241.7 | 268.8 | 259.2 | 244.6 | 258.6 | 253.5 |
| 71°   | 2190.8 | 615.8 | 176.5 | 173.3 | 194.3 | 230.6 | 259.2 | 251.3 | 236.6 | 245.9 | 243.0 |
| 72.5° | 2068.1 | 534.7 | 162.5 | 163.2 | 181.0 | 216.6 | 245.9 | 237.6 | 223.0 | 228.1 | 227.1 |
| 75°   | 1748.1 | 466.9 | 139.0 | 141.9 | 155.5 | 192.7 | 219.1 | 212.8 | 197.8 | 197.8 | 196.9 |
| 77.5° | 1092.9 | 326.3 | 115.5 | 117.0 | 132.0 | 165.1 | 188.3 | 182.9 | 168.6 | 163.8 | 162.5 |
| 80°   | 407.8  | 168.6 | 90.3  | 92.2  | 101.5 | 130.1 | 155.9 | 150.8 | 136.1 | 130.7 | 125.6 |
| 82.5° | 154.3  | 84.6  | 66.5  | 64.9  | 74.7  | 99.2  | 122.1 | 116.1 | 104.6 | 91.6  | 87.8  |
| 85°   | 58.2   | 42.0  | 40.7  | 39.4  | 43.9  | 58.8  | 75.7  | 74.4  | 62.3  | 53.1  | 52.2  |
| 87.5° | 15.3   | 13.7  | 15.9  | 11.8  | 12.4  | 11.1  | 11.5  | 4.8   | 2.2   | 1.0   | 0.6   |
| 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)