

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: P450415

Luminaire Tested: **GLAN-SA1B-722-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450415  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1B-722-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2200K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4197 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
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

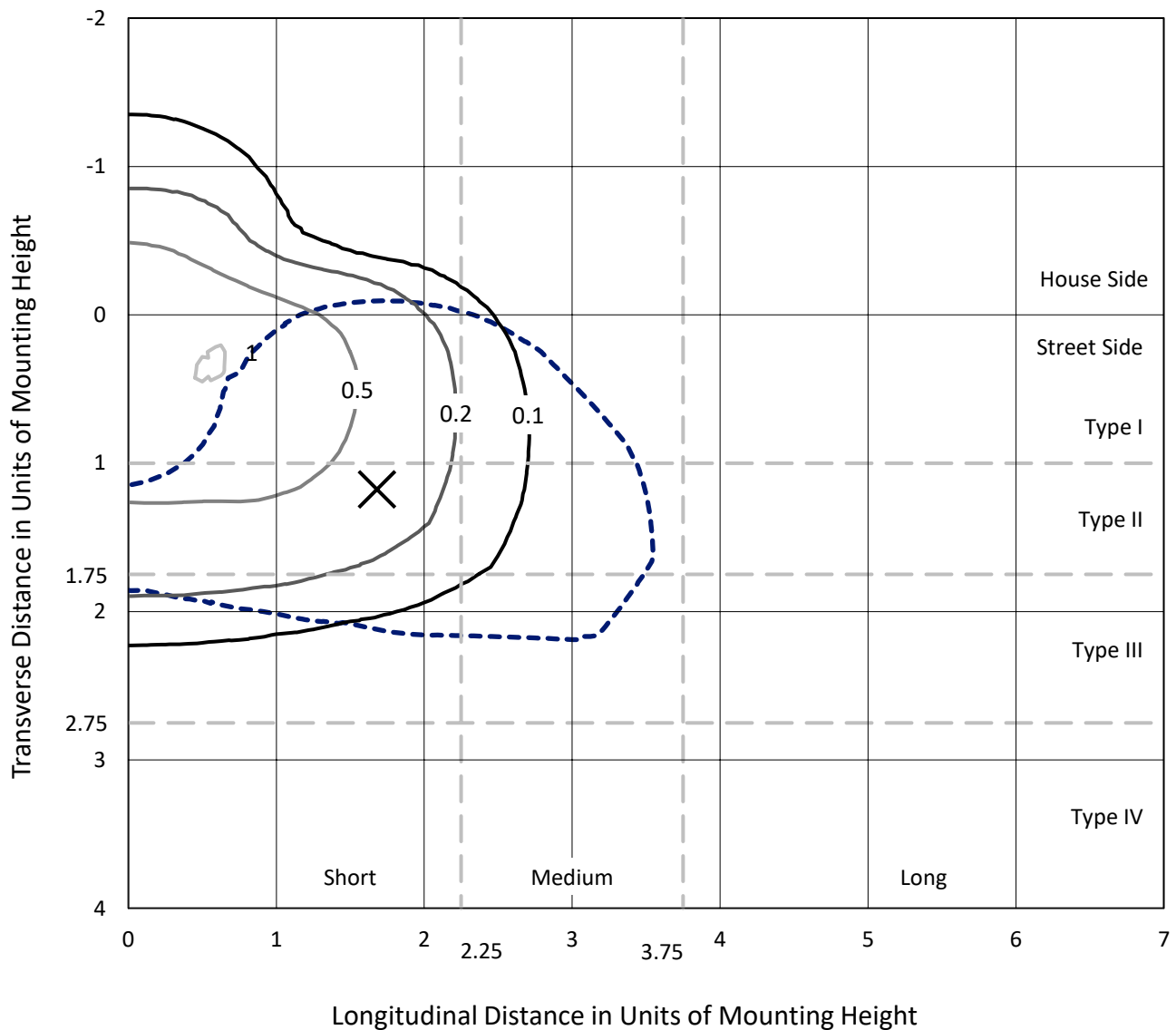


REPORT NUMBER: P450415

CATALOG NUMBER: GLAN-SA1B-722-U-T3

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

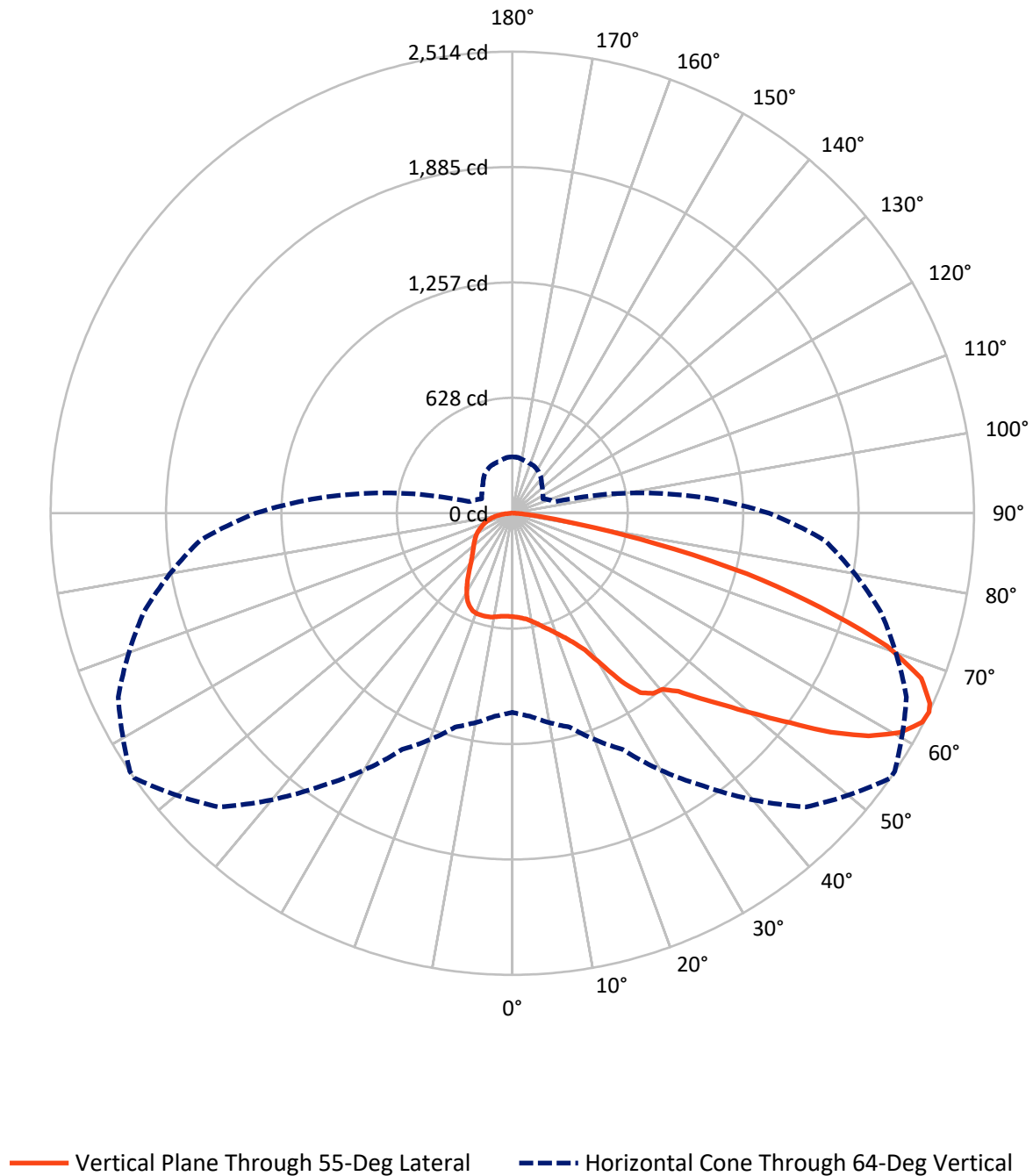


Based on 25 foot mounting height. Maximum calculated value = 1 fc  
Type III - Short - N/A

REPORT NUMBER: P450415

CATALOG NUMBER: GLAN-SA1B-722-U-T3

## Luminous Intensity Polar Plot



REPORT NUMBER: P450415

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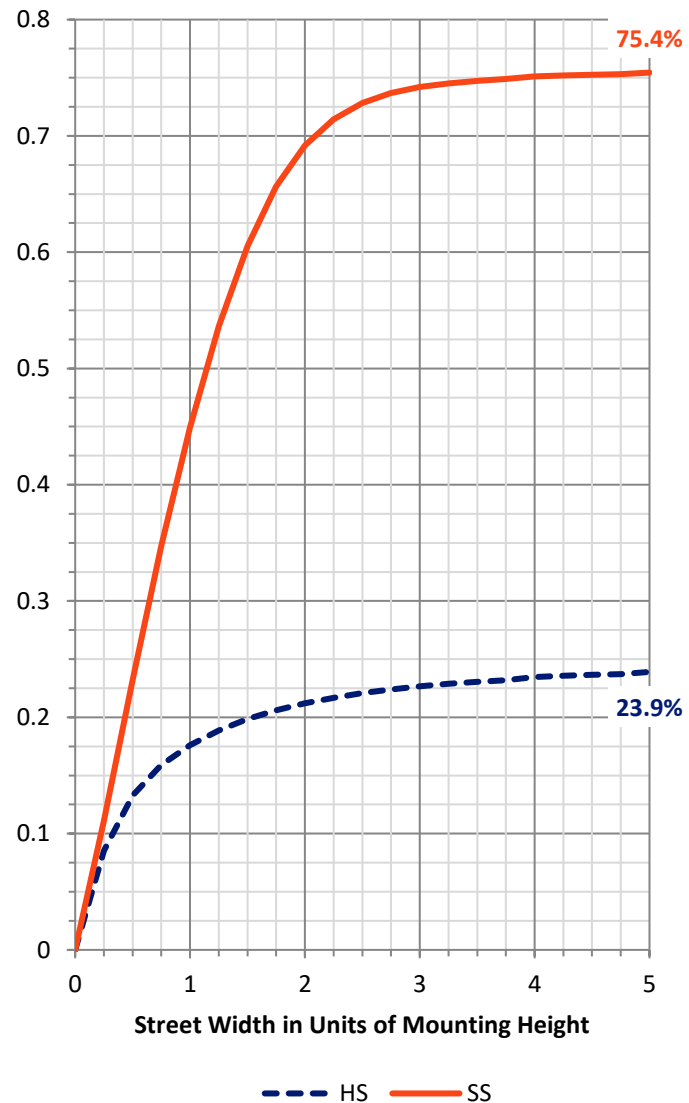
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1019.5   | 0.0    | 1019.5 |
|                    | % Fixture | 24.3     | 0.0    | 24.3   |
| <b>Street Side</b> | Lumens    | 3177.5   | 0.0    | 3177.5 |
|                    | % Fixture | 75.7     | 0.0    | 75.7   |
| <b>Total</b>       | Lumens    | 4197.0   | 0.0    | 4197.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 54.8   | 1.3       |
| 10°-20°   | 172.8  | 4.1       |
| 20°-30°   | 307.7  | 7.3       |
| 30°-40°   | 473.4  | 11.3      |
| 40°-50°   | 671.1  | 16.0      |
| 50°-60°   | 971.4  | 23.1      |
| 60°-70°   | 1005.3 | 24.0      |
| 70°-80°   | 470.8  | 11.2      |
| 80°-90°   | 69.7   | 1.7       |
| 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°    | 4197.0 | 100.0     |
| 0°-180°   | 4197.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P450415

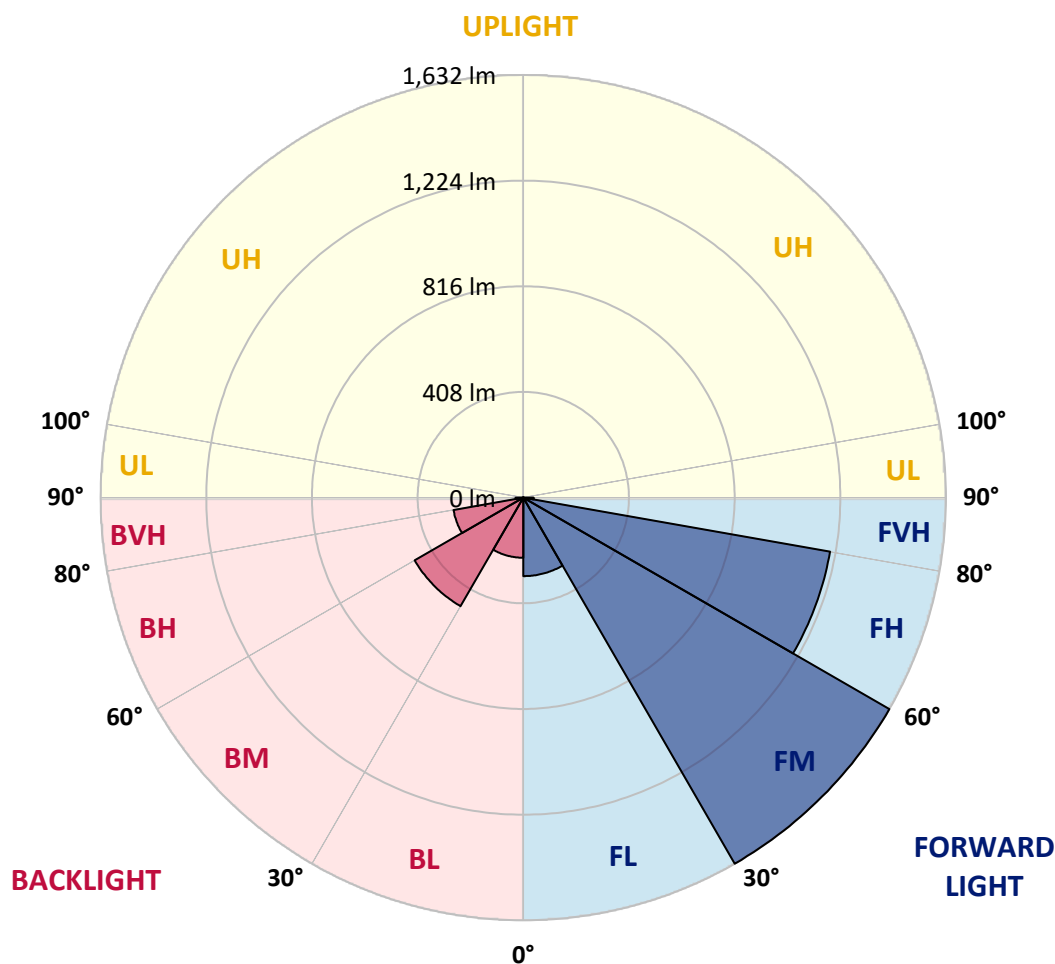
CATALOG NUMBER: GLAN-SA1B-722-U-T3

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 303.1  | 7.2       |                         |      |         |
| FM   | (30°-60°)   | 1631.9 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 1202.6 | 28.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 39.9   | 1.0       |                         |      | G1/100  |
| BL   | (0°-30°)    | 232.2  | 5.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 484.0  | 11.5      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 273.5  | 6.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 29.8   | 0.7       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type III Short



REPORT NUMBER: P450415

CATALOG NUMBER: GLAN-SA1B-722-U-T3

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 563.1  | 563.1  | 563.1  | 563.1  | 563.1  | 563.1  | 563.1  | 563.1  | 563.1  | 563.1  | 563.1  |
| 2.5°  | 569.4  | 569.2  | 569.9  | 569.2  | 569.7  | 568.0  | 567.3  | 567.8  | 567.1  | 565.9  | 563.8  |
| 5°    | 576.4  | 576.2  | 576.4  | 575.5  | 576.0  | 575.0  | 573.4  | 573.9  | 572.7  | 570.1  | 567.1  |
| 7.5°  | 588.4  | 587.4  | 587.4  | 587.2  | 586.3  | 584.9  | 583.7  | 583.2  | 582.1  | 578.8  | 574.1  |
| 10°   | 603.8  | 603.8  | 604.1  | 602.2  | 603.3  | 600.8  | 599.6  | 599.4  | 595.4  | 591.2  | 584.6  |
| 12.5° | 624.2  | 625.3  | 624.6  | 623.7  | 623.2  | 622.3  | 618.3  | 619.3  | 614.8  | 607.6  | 599.6  |
| 15°   | 649.4  | 651.3  | 650.1  | 649.7  | 648.5  | 645.0  | 643.4  | 642.7  | 636.8  | 626.3  | 615.7  |
| 17.5° | 682.9  | 680.6  | 679.6  | 678.4  | 673.5  | 671.0  | 668.2  | 667.7  | 662.5  | 650.1  | 633.8  |
| 20°   | 712.1  | 715.4  | 713.5  | 712.4  | 707.5  | 702.5  | 700.4  | 699.7  | 695.3  | 681.7  | 655.5  |
| 22.5° | 747.0  | 747.7  | 748.4  | 745.6  | 743.3  | 739.5  | 735.8  | 734.6  | 733.0  | 718.9  | 686.9  |
| 25°   | 784.2  | 787.0  | 784.7  | 781.9  | 779.0  | 778.8  | 782.3  | 781.9  | 781.1  | 767.6  | 728.5  |
| 27.5° | 844.8  | 847.4  | 848.1  | 845.0  | 834.3  | 835.2  | 843.1  | 845.7  | 856.5  | 834.0  | 782.1  |
| 30°   | 878.9  | 881.5  | 887.4  | 898.8  | 915.9  | 930.9  | 950.1  | 955.9  | 966.2  | 923.9  | 845.7  |
| 32.5° | 900.0  | 900.9  | 911.5  | 932.7  | 984.0  | 1039.9 | 1092.1 | 1094.2 | 1100.7 | 1041.3 | 904.0  |
| 35°   | 933.2  | 933.9  | 942.3  | 965.7  | 1025.9 | 1119.0 | 1199.7 | 1202.3 | 1196.9 | 1077.8 | 931.1  |
| 37.5° | 974.2  | 976.0  | 981.4  | 1000.8 | 1072.6 | 1185.2 | 1244.4 | 1242.5 | 1194.8 | 1106.8 | 979.1  |
| 40°   | 1033.8 | 1033.8 | 1027.5 | 1053.7 | 1122.0 | 1223.1 | 1260.0 | 1256.8 | 1244.1 | 1190.8 | 1052.1 |
| 42.5° | 1086.5 | 1085.5 | 1100.5 | 1118.3 | 1183.8 | 1281.6 | 1325.8 | 1331.2 | 1352.0 | 1296.3 | 1135.1 |
| 45°   | 1155.0 | 1159.2 | 1167.6 | 1199.9 | 1288.8 | 1381.5 | 1438.5 | 1443.7 | 1473.2 | 1420.5 | 1232.2 |
| 47.5° | 1224.2 | 1225.6 | 1252.1 | 1295.1 | 1418.9 | 1516.9 | 1563.7 | 1572.1 | 1599.0 | 1565.8 | 1336.8 |
| 50°   | 1273.4 | 1286.7 | 1329.1 | 1396.9 | 1552.9 | 1682.1 | 1718.6 | 1728.6 | 1776.1 | 1724.0 | 1458.7 |
| 52.5° | 1325.3 | 1338.4 | 1390.1 | 1493.5 | 1706.9 | 1851.0 | 1895.9 | 1902.7 | 1952.1 | 1884.0 | 1583.4 |
| 55°   | 1369.8 | 1381.9 | 1440.6 | 1579.1 | 1829.5 | 2023.4 | 2104.8 | 2096.9 | 2120.5 | 2007.3 | 1679.5 |
| 57.5° | 1377.0 | 1386.8 | 1460.8 | 1633.9 | 1921.6 | 2171.3 | 2288.0 | 2292.7 | 2265.3 | 2099.4 | 1758.8 |
| 60°   | 1320.9 | 1341.0 | 1425.9 | 1628.0 | 1963.1 | 2274.2 | 2424.6 | 2427.9 | 2350.2 | 2146.7 | 1790.4 |
| 62.5° | 1221.4 | 1219.3 | 1322.0 | 1534.0 | 1905.0 | 2297.6 | 2505.1 | 2501.6 | 2383.5 | 2124.0 | 1759.8 |
| 64°   | 1084.1 | 1109.4 | 1205.3 | 1418.4 | 1811.5 | 2261.6 | 2513.5 | 2511.7 | 2367.5 | 2076.7 | 1707.6 |
| 65°   | 1000.4 | 999.0  | 1093.7 | 1323.9 | 1718.3 | 2207.3 | 2498.6 | 2496.0 | 2334.3 | 2034.4 | 1667.1 |
| 67.5° | 722.2  | 725.5  | 819.0  | 1021.6 | 1396.9 | 1995.1 | 2401.0 | 2391.4 | 2203.3 | 1894.0 | 1513.2 |
| 70°   | 437.5  | 439.4  | 512.8  | 677.7  | 1002.7 | 1612.8 | 2164.2 | 2164.7 | 2002.8 | 1684.4 | 1287.9 |
| 72.5° | 230.4  | 235.4  | 264.8  | 384.8  | 609.0  | 1131.6 | 1755.8 | 1797.4 | 1719.5 | 1437.6 | 1017.4 |
| 75°   | 128.2  | 128.9  | 149.7  | 189.7  | 310.7  | 633.3  | 1319.7 | 1331.6 | 1361.3 | 1157.1 | 752.4  |
| 77.5° | 97.8   | 99.2   | 105.7  | 122.6  | 169.1  | 293.6  | 798.7  | 858.6  | 959.4  | 815.8  | 429.3  |
| 80°   | 79.3   | 80.7   | 86.3   | 96.4   | 112.5  | 139.2  | 371.0  | 403.3  | 513.5  | 362.2  | 167.5  |
| 82.5° | 61.8   | 60.8   | 68.1   | 74.6   | 81.9   | 82.3   | 152.3  | 168.4  | 209.1  | 155.8  | 72.5   |
| 85°   | 45.9   | 45.9   | 51.7   | 50.3   | 52.9   | 48.2   | 67.1   | 74.2   | 83.8   | 66.2   | 33.7   |
| 87.5° | 18.2   | 20.1   | 33.9   | 30.4   | 23.6   | 18.9   | 24.8   | 26.2   | 29.0   | 26.0   | 14.0   |
| 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: P450415

CATALOG NUMBER: GLAN-SA1B-722-U-T3

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 563.1  | 563.1  | 563.1 | 563.1 | 563.1 | 563.1 | 563.1 | 563.1 | 563.1 | 563.1 | 563.1 |
| 2.5°  | 564.0  | 564.7  | 563.1 | 561.9 | 561.5 | 560.8 | 560.1 | 560.3 | 561.2 | 562.2 | 561.9 |
| 5°    | 566.9  | 567.1  | 564.3 | 562.9 | 561.9 | 561.0 | 561.0 | 561.7 | 563.6 | 565.0 | 565.0 |
| 7.5°  | 573.9  | 573.9  | 569.9 | 567.3 | 565.9 | 564.3 | 563.8 | 564.0 | 565.5 | 567.3 | 567.6 |
| 10°   | 584.9  | 583.9  | 578.8 | 574.8 | 572.2 | 568.3 | 564.7 | 562.9 | 563.6 | 564.7 | 564.7 |
| 12.5° | 598.2  | 595.6  | 589.1 | 583.7 | 577.4 | 569.9 | 562.6 | 558.9 | 558.7 | 559.8 | 559.4 |
| 15°   | 612.5  | 609.7  | 600.5 | 590.7 | 579.7 | 568.7 | 560.1 | 554.7 | 550.5 | 549.3 | 551.9 |
| 17.5° | 629.1  | 623.2  | 610.6 | 597.0 | 580.7 | 566.4 | 552.8 | 541.8 | 534.3 | 532.2 | 532.9 |
| 20°   | 649.2  | 641.5  | 624.4 | 603.1 | 580.0 | 558.0 | 536.9 | 522.2 | 510.0 | 506.3 | 506.7 |
| 22.5° | 677.0  | 663.7  | 638.7 | 606.2 | 574.1 | 542.1 | 512.8 | 493.6 | 478.9 | 473.0 | 476.6 |
| 25°   | 708.6  | 694.1  | 652.2 | 605.5 | 558.9 | 516.6 | 484.3 | 459.2 | 445.9 | 437.2 | 439.1 |
| 27.5° | 752.1  | 726.4  | 666.7 | 599.1 | 537.1 | 485.4 | 448.0 | 424.4 | 412.2 | 407.8 | 409.9 |
| 30°   | 807.8  | 768.3  | 682.4 | 582.1 | 502.8 | 446.1 | 411.5 | 396.1 | 388.8 | 383.2 | 385.1 |
| 32.5° | 848.1  | 797.8  | 685.9 | 553.3 | 465.6 | 410.3 | 386.7 | 375.3 | 367.3 | 361.9 | 363.1 |
| 35°   | 876.8  | 822.8  | 684.3 | 518.0 | 426.7 | 380.9 | 367.1 | 357.7 | 344.8 | 333.1 | 331.0 |
| 37.5° | 915.4  | 854.1  | 672.4 | 479.4 | 388.4 | 361.0 | 351.2 | 333.8 | 315.4 | 299.7 | 299.0 |
| 40°   | 974.6  | 890.9  | 646.9 | 434.0 | 355.6 | 346.2 | 334.3 | 311.9 | 292.0 | 279.3 | 278.4 |
| 42.5° | 1035.7 | 924.8  | 612.2 | 386.2 | 328.7 | 330.8 | 316.3 | 294.1 | 281.9 | 273.7 | 272.8 |
| 45°   | 1110.3 | 961.5  | 574.8 | 344.8 | 308.8 | 316.3 | 300.6 | 287.8 | 280.5 | 275.1 | 273.7 |
| 47.5° | 1191.0 | 999.2  | 532.7 | 307.6 | 292.0 | 303.0 | 294.1 | 288.2 | 284.2 | 280.5 | 278.9 |
| 50°   | 1278.1 | 1041.3 | 493.2 | 277.7 | 276.8 | 289.2 | 293.4 | 291.3 | 288.9 | 287.8 | 286.4 |
| 52.5° | 1373.5 | 1084.3 | 459.9 | 256.6 | 263.4 | 279.3 | 293.6 | 295.2 | 295.2 | 294.5 | 293.6 |
| 55°   | 1438.1 | 1114.3 | 426.3 | 239.6 | 249.9 | 271.4 | 293.1 | 299.5 | 301.8 | 300.9 | 299.9 |
| 57.5° | 1485.8 | 1130.7 | 383.9 | 224.8 | 238.4 | 263.7 | 290.6 | 299.9 | 302.3 | 303.4 | 303.0 |
| 60°   | 1495.6 | 1115.5 | 328.5 | 209.4 | 226.0 | 252.4 | 281.2 | 292.9 | 295.9 | 303.2 | 303.9 |
| 62.5° | 1451.4 | 1068.7 | 273.3 | 194.2 | 210.8 | 235.4 | 268.6 | 284.9 | 291.0 | 302.3 | 303.4 |
| 64°   | 1397.1 | 1016.3 | 242.6 | 184.6 | 201.0 | 225.8 | 262.3 | 282.8 | 290.8 | 305.8 | 306.7 |
| 65°   | 1357.4 | 978.1  | 223.4 | 178.5 | 194.6 | 219.4 | 258.7 | 283.5 | 292.9 | 311.1 | 312.6 |
| 67.5° | 1210.9 | 846.9  | 184.8 | 164.2 | 179.7 | 208.7 | 259.4 | 289.4 | 292.4 | 313.3 | 313.0 |
| 70°   | 1002.0 | 674.2  | 154.9 | 151.1 | 165.2 | 200.0 | 256.6 | 280.0 | 280.3 | 294.1 | 290.8 |
| 72.5° | 750.3  | 498.3  | 134.3 | 137.6 | 149.0 | 179.4 | 242.4 | 267.4 | 263.4 | 265.3 | 262.0 |
| 75°   | 515.4  | 329.6  | 115.6 | 123.1 | 132.2 | 158.6 | 222.2 | 242.8 | 236.5 | 234.2 | 231.8 |
| 77.5° | 275.1  | 182.2  | 96.2  | 108.8 | 114.9 | 137.1 | 193.9 | 213.8 | 207.3 | 198.2 | 195.1 |
| 80°   | 111.4  | 85.9   | 77.4  | 90.1  | 93.6  | 110.4 | 161.4 | 173.8 | 168.9 | 153.0 | 147.9 |
| 82.5° | 55.9   | 51.5   | 60.8  | 70.9  | 71.1  | 78.8  | 120.0 | 131.7 | 120.7 | 101.3 | 96.9  |
| 85°   | 29.2   | 30.2   | 41.9  | 49.8  | 44.0  | 42.6  | 72.1  | 79.8  | 73.2  | 63.6  | 57.3  |
| 87.5° | 10.5   | 12.2   | 22.0  | 21.8  | 15.4  | 8.2   | 15.9  | 7.7   | 4.2   | 2.6   | 3.3   |
| 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)