

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: P450476

Luminaire Tested: **GLAN-SA1B-730-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450476  
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-SA1B-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3776 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - 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

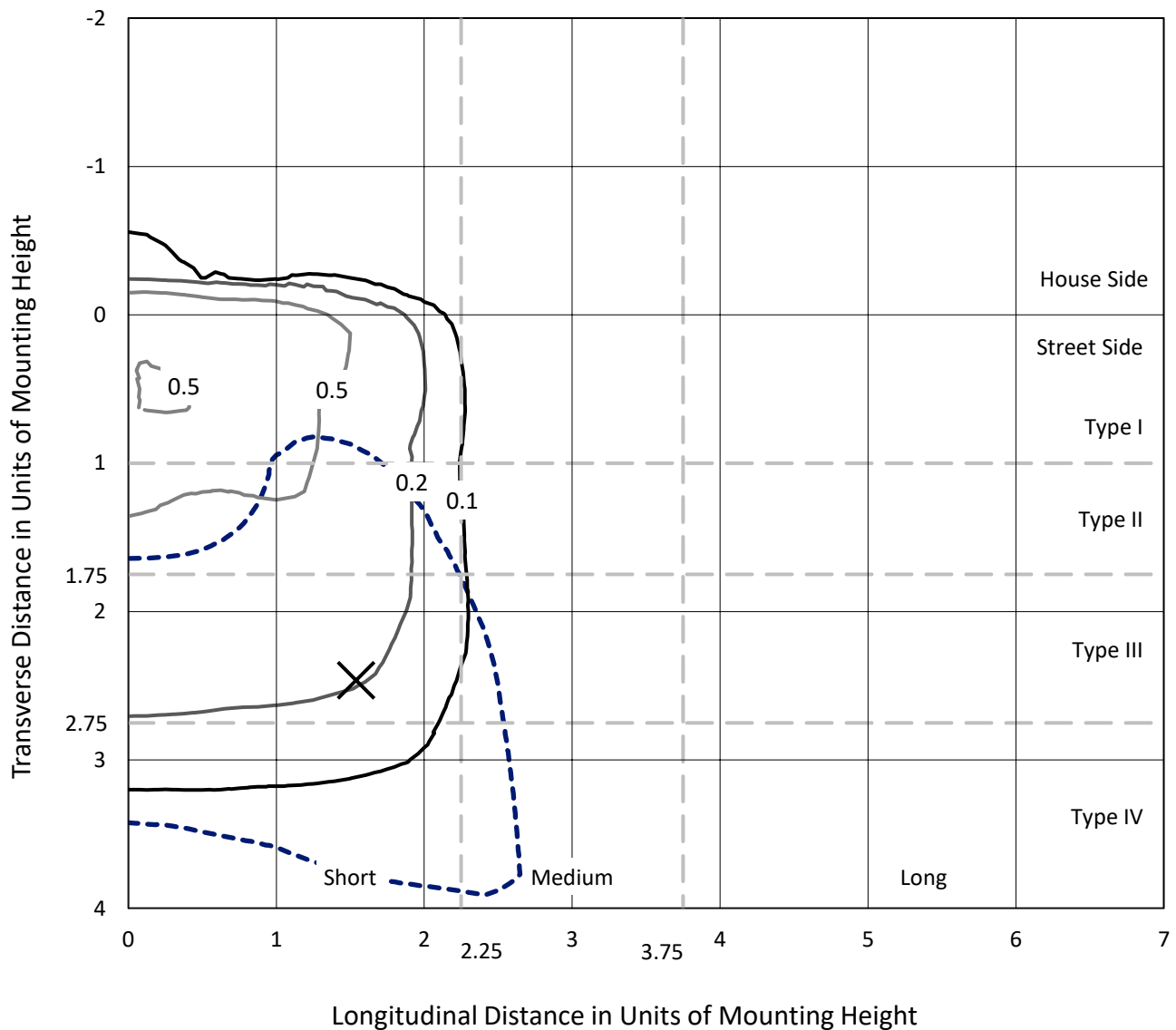


REPORT NUMBER: P450476

CATALOG NUMBER: GLAN-SA1B-730-U-T4FT-HSS

## Iso-Footcandle Lines of Horizontal Illumination

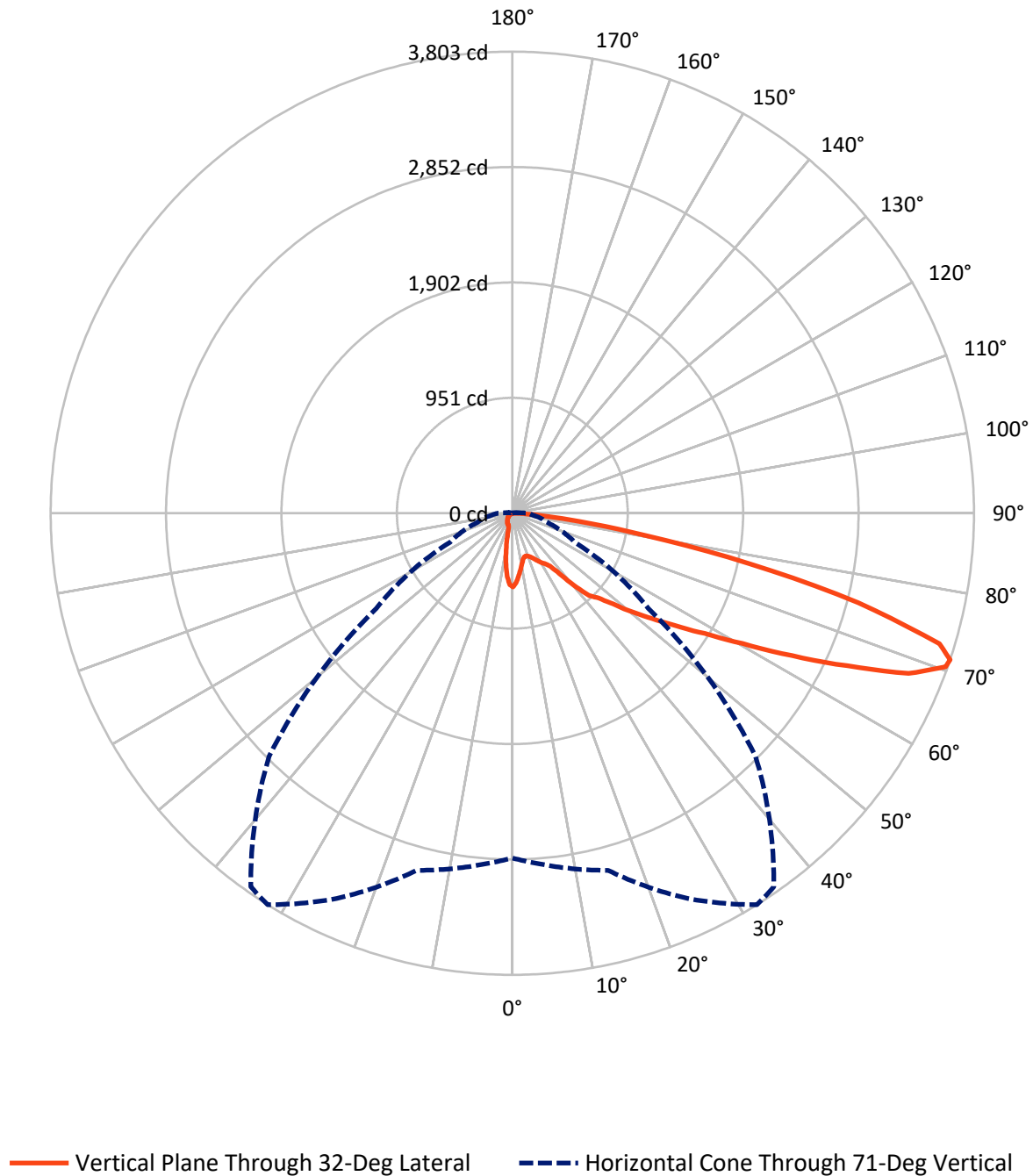
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P450476  
CATALOG NUMBER: GLAN-SA1B-730-U-T4FT-HSS

## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 316.3    | 0.0    | 316.3  |
|                    | % Fixture | 8.4      | 0.0    | 8.4    |
| <b>Street Side</b> | Lumens    | 3459.7   | 0.0    | 3459.7 |
|                    | % Fixture | 91.6     | 0.0    | 91.6   |
| <b>Total</b>       | Lumens    | 3776.0   | 0.0    | 3776.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 49.4   | 1.3       |
| 10°-20°   | 107.2  | 2.8       |
| 20°-30°   | 166.7  | 4.4       |
| 30°-40°   | 277.7  | 7.4       |
| 40°-50°   | 516.7  | 13.7      |
| 50°-60°   | 829.5  | 22.0      |
| 60°-70°   | 1115.7 | 29.5      |
| 70°-80°   | 662.0  | 17.5      |
| 80°-90°   | 51.2   | 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°    | 3776.0 | 100.0     |
| 0°-180°   | 3776.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P450476

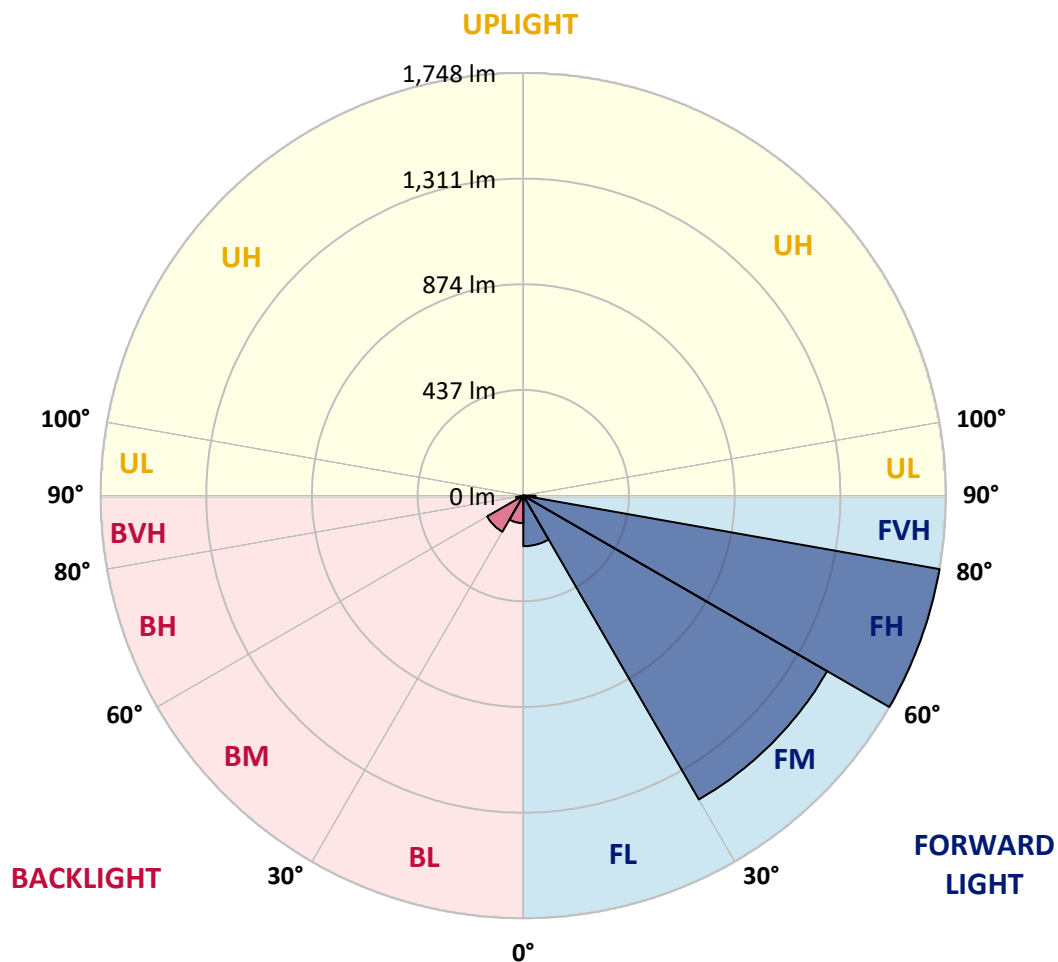
CATALOG NUMBER: GLAN-SA1B-730-U-T4FT-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 209.3  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 1451.4 | 38.4      |                         |      |         |
| FH   | (60°-80°)   | 1748.1 | 46.3      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 51.0   | 1.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 114.0  | 3.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 172.5  | 4.6       | B0/220                  |      |         |
| BH   | (60°-80°)   | 29.6   | 0.8       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.2    | 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-G1**

Type IV Short





REPORT NUMBER: P450476

CATALOG NUMBER: GLAN-SA1B-730-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 32°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 607.2  | 607.2  | 607.2  | 607.2  | 607.2  | 607.2  | 607.2  | 607.2  | 607.2  | 607.2  | 607.2  |
| 2.5°  | 563.2  | 569.0  | 568.1  | 570.1  | 575.1  | 577.1  | 582.6  | 588.7  | 597.1  | 602.9  | 606.7  |
| 5°    | 504.3  | 508.7  | 509.3  | 519.4  | 524.3  | 529.8  | 546.1  | 563.8  | 583.5  | 599.1  | 609.6  |
| 7.5°  | 441.4  | 443.8  | 448.4  | 461.7  | 474.2  | 479.7  | 504.3  | 535.1  | 566.1  | 595.4  | 614.2  |
| 10°   | 389.6  | 392.2  | 400.6  | 414.8  | 426.4  | 433.6  | 467.8  | 506.4  | 549.8  | 593.3  | 620.9  |
| 12.5° | 360.0  | 361.4  | 364.6  | 377.4  | 392.2  | 400.0  | 436.8  | 480.9  | 536.8  | 594.2  | 632.2  |
| 15°   | 358.0  | 357.4  | 353.6  | 358.8  | 372.2  | 380.3  | 416.2  | 463.5  | 525.2  | 597.1  | 645.5  |
| 17.5° | 368.7  | 367.2  | 358.3  | 358.3  | 369.3  | 375.9  | 407.5  | 454.2  | 519.4  | 603.8  | 664.3  |
| 20°   | 385.2  | 382.9  | 368.1  | 367.0  | 377.7  | 384.6  | 412.7  | 454.8  | 520.6  | 616.2  | 689.6  |
| 22.5° | 406.1  | 403.5  | 381.2  | 381.7  | 393.3  | 400.3  | 427.8  | 465.2  | 527.8  | 631.6  | 716.5  |
| 25°   | 433.3  | 430.4  | 404.1  | 402.9  | 415.1  | 421.2  | 450.1  | 483.8  | 538.0  | 650.7  | 751.9  |
| 27.5° | 469.6  | 463.5  | 431.9  | 430.1  | 443.2  | 451.0  | 477.1  | 508.7  | 555.9  | 677.1  | 799.4  |
| 30°   | 499.4  | 492.7  | 462.6  | 458.0  | 471.9  | 478.0  | 504.9  | 542.3  | 591.3  | 723.2  | 865.2  |
| 32.5° | 538.5  | 528.7  | 493.3  | 481.2  | 495.9  | 503.8  | 545.2  | 604.9  | 643.8  | 771.9  | 943.5  |
| 35°   | 626.7  | 620.6  | 577.4  | 534.8  | 533.9  | 543.8  | 604.6  | 668.1  | 697.7  | 847.8  | 1050.1 |
| 37.5° | 752.7  | 748.4  | 702.6  | 645.5  | 629.0  | 624.3  | 676.8  | 737.7  | 783.8  | 952.2  | 1174.2 |
| 40°   | 899.1  | 889.0  | 846.9  | 798.5  | 777.1  | 763.5  | 762.0  | 841.2  | 896.2  | 1093.9 | 1303.5 |
| 42.5° | 1004.0 | 985.5  | 934.5  | 931.0  | 926.4  | 912.2  | 871.0  | 992.5  | 1041.4 | 1246.4 | 1441.7 |
| 45°   | 1114.2 | 1086.1 | 1010.1 | 997.1  | 995.4  | 994.5  | 1035.6 | 1171.6 | 1199.7 | 1411.6 | 1583.8 |
| 47.5° | 1199.7 | 1177.4 | 1115.1 | 1109.3 | 1116.5 | 1136.2 | 1253.3 | 1361.7 | 1355.9 | 1558.8 | 1702.9 |
| 50°   | 1313.6 | 1296.8 | 1227.5 | 1238.5 | 1275.9 | 1308.1 | 1498.8 | 1569.0 | 1484.3 | 1674.8 | 1789.5 |
| 52.5° | 1448.1 | 1417.1 | 1352.7 | 1382.6 | 1440.0 | 1493.6 | 1759.4 | 1750.4 | 1574.5 | 1762.0 | 1854.2 |
| 55°   | 1564.6 | 1542.6 | 1520.6 | 1551.6 | 1637.4 | 1704.3 | 1994.8 | 1886.4 | 1640.0 | 1832.2 | 1882.6 |
| 57.5° | 1761.7 | 1756.5 | 1733.9 | 1765.5 | 1869.5 | 1939.1 | 2205.5 | 1991.9 | 1682.0 | 1868.7 | 1849.3 |
| 60°   | 2053.3 | 2044.9 | 2002.9 | 2043.2 | 2178.8 | 2288.1 | 2399.7 | 2086.6 | 1691.6 | 1854.5 | 1753.3 |
| 62.5° | 2404.0 | 2375.3 | 2339.4 | 2398.8 | 2584.9 | 2633.0 | 2582.6 | 2142.9 | 1655.9 | 1741.4 | 1522.0 |
| 65°   | 2731.6 | 2702.0 | 2702.9 | 2828.1 | 3030.7 | 3063.4 | 2795.9 | 2134.5 | 1551.6 | 1458.2 | 1122.6 |
| 67.5° | 2982.3 | 2977.4 | 3012.7 | 3257.1 | 3522.0 | 3499.4 | 2986.6 | 2008.7 | 1242.3 | 945.2  | 596.5  |
| 70°   | 2995.0 | 3004.6 | 3106.1 | 3518.5 | 3787.5 | 3751.6 | 2970.4 | 1632.7 | 774.5  | 434.8  | 235.1  |
| 71°   | 2840.8 | 2905.2 | 3045.5 | 3510.4 | 3803.1 | 3756.5 | 2833.6 | 1367.5 | 568.1  | 303.2  | 169.6  |
| 72.5° | 2420.8 | 2454.8 | 2757.9 | 3303.7 | 3679.4 | 3579.7 | 2486.6 | 958.5  | 363.8  | 185.5  | 97.4   |
| 75°   | 1333.3 | 1416.8 | 1846.9 | 2591.9 | 2942.9 | 2855.3 | 1620.6 | 455.4  | 181.4  | 101.4  | 40.3   |
| 77.5° | 634.8  | 618.5  | 901.1  | 1541.4 | 1995.3 | 1990.7 | 816.5  | 202.3  | 105.8  | 68.7   | 20.3   |
| 80°   | 181.4  | 204.1  | 344.9  | 732.7  | 1107.8 | 1120.0 | 313.6  | 97.7   | 73.3   | 53.6   | 10.4   |
| 82.5° | 54.8   | 55.9   | 126.7  | 324.1  | 551.0  | 519.4  | 117.7  | 49.9   | 52.8   | 42.6   | 6.1    |
| 85°   | 9.6    | 11.9   | 37.4   | 114.2  | 210.1  | 159.4  | 29.6   | 23.8   | 34.8   | 28.1   | 3.5    |
| 87.5° | 0.6    | 0.9    | 12.5   | 13.0   | 18.6   | 10.7   | 5.2    | 3.5    | 7.5    | 7.5    | 2.0    |
| 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: P450476

CATALOG NUMBER: GLAN-SA1B-730-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 607.2  | 607.2 | 607.2 | 607.2 | 607.2 | 607.2 | 607.2 | 607.2 | 607.2 | 607.2 | 607.2 |
| 2.5°  | 609.3  | 611.0 | 609.8 | 607.2 | 602.9 | 597.7 | 590.7 | 584.9 | 580.0 | 577.4 | 580.6 |
| 5°    | 613.0  | 615.4 | 609.6 | 596.5 | 576.8 | 555.4 | 531.0 | 512.2 | 497.4 | 492.7 | 491.0 |
| 7.5°  | 618.8  | 620.3 | 604.6 | 575.6 | 533.9 | 483.2 | 438.8 | 401.4 | 372.5 | 363.8 | 351.0 |
| 10°   | 626.4  | 625.5 | 595.9 | 542.0 | 468.7 | 392.5 | 323.8 | 272.8 | 234.2 | 220.3 | 219.1 |
| 12.5° | 638.0  | 633.3 | 584.9 | 496.2 | 391.0 | 291.3 | 206.4 | 161.4 | 137.1 | 129.0 | 127.2 |
| 15°   | 652.5  | 641.4 | 567.5 | 442.6 | 299.4 | 188.1 | 127.2 | 113.6 | 110.4 | 109.9 | 109.3 |
| 17.5° | 669.6  | 652.2 | 544.6 | 376.8 | 210.4 | 122.0 | 106.4 | 106.1 | 106.4 | 105.8 | 105.5 |
| 20°   | 692.7  | 663.5 | 517.4 | 298.8 | 139.1 | 102.9 | 101.4 | 101.4 | 101.7 | 101.4 | 101.4 |
| 22.5° | 717.4  | 676.8 | 483.8 | 228.1 | 104.9 | 97.7  | 97.4  | 98.0  | 98.5  | 98.3  | 98.3  |
| 25°   | 747.8  | 694.2 | 439.4 | 156.2 | 93.9  | 93.3  | 93.6  | 94.8  | 95.9  | 96.2  | 95.9  |
| 27.5° | 791.9  | 715.6 | 391.9 | 107.5 | 86.1  | 86.7  | 89.6  | 92.5  | 94.2  | 94.5  | 94.5  |
| 30°   | 841.4  | 739.4 | 329.9 | 87.2  | 79.7  | 79.7  | 83.2  | 88.7  | 92.5  | 93.0  | 93.3  |
| 32.5° | 905.2  | 766.9 | 261.2 | 78.5  | 73.6  | 73.0  | 76.2  | 82.9  | 89.9  | 91.9  | 91.9  |
| 35°   | 984.0  | 799.4 | 194.2 | 73.0  | 69.3  | 67.8  | 69.6  | 75.1  | 84.1  | 89.9  | 90.4  |
| 37.5° | 1076.5 | 830.1 | 142.0 | 68.1  | 65.2  | 63.2  | 64.3  | 68.7  | 75.9  | 84.6  | 87.0  |
| 40°   | 1162.0 | 857.4 | 106.1 | 64.1  | 61.2  | 59.7  | 60.6  | 62.6  | 68.7  | 76.8  | 78.3  |
| 42.5° | 1255.3 | 878.5 | 84.3  | 59.7  | 57.1  | 56.5  | 56.5  | 57.4  | 61.4  | 66.1  | 66.4  |
| 45°   | 1348.4 | 886.1 | 70.7  | 54.5  | 52.8  | 53.3  | 53.0  | 52.5  | 54.2  | 53.6  | 53.6  |
| 47.5° | 1414.8 | 877.1 | 58.6  | 49.6  | 49.6  | 50.4  | 49.0  | 47.0  | 46.1  | 42.6  | 42.9  |
| 50°   | 1460.3 | 844.3 | 48.1  | 43.8  | 46.1  | 47.2  | 44.3  | 41.2  | 38.0  | 34.2  | 33.3  |
| 52.5° | 1479.1 | 786.1 | 39.4  | 36.2  | 40.9  | 42.3  | 38.8  | 35.1  | 30.1  | 27.0  | 26.1  |
| 55°   | 1466.9 | 714.2 | 32.8  | 29.6  | 34.5  | 36.2  | 32.8  | 28.4  | 22.9  | 19.4  | 18.8  |
| 57.5° | 1413.3 | 628.4 | 27.8  | 23.5  | 27.5  | 28.7  | 26.4  | 21.7  | 16.2  | 12.8  | 12.8  |
| 60°   | 1320.6 | 539.7 | 22.6  | 18.6  | 20.6  | 22.3  | 20.0  | 15.7  | 11.0  | 7.8   | 7.2   |
| 62.5° | 1132.5 | 438.3 | 18.3  | 14.5  | 14.5  | 15.9  | 13.9  | 11.3  | 7.0   | 4.1   | 3.8   |
| 65°   | 817.7  | 300.6 | 14.5  | 10.7  | 10.4  | 10.4  | 8.7   | 7.5   | 4.1   | 1.7   | 1.2   |
| 67.5° | 444.3  | 169.6 | 11.6  | 8.1   | 7.2   | 7.0   | 5.5   | 4.3   | 1.7   | 0.3   | 0.0   |
| 70°   | 174.8  | 65.2  | 9.0   | 5.5   | 4.6   | 4.3   | 2.9   | 2.0   | 1.2   | 0.0   | 0.0   |
| 71°   | 118.5  | 44.9  | 7.8   | 4.6   | 3.8   | 3.2   | 2.3   | 1.7   | 0.9   | 0.0   | 0.0   |
| 72.5° | 67.8   | 27.8  | 6.1   | 3.5   | 2.9   | 2.3   | 1.7   | 1.2   | 0.9   | 0.0   | 0.0   |
| 75°   | 29.6   | 14.2  | 3.8   | 2.6   | 2.0   | 1.4   | 1.2   | 0.9   | 0.3   | 0.0   | 0.0   |
| 77.5° | 15.1   | 7.8   | 2.6   | 2.0   | 1.2   | 0.9   | 0.6   | 0.3   | 0.0   | 0.0   | 0.0   |
| 80°   | 8.4    | 4.1   | 1.7   | 1.2   | 0.9   | 0.6   | 0.3   | 0.3   | 0.0   | 0.0   | 0.0   |
| 82.5° | 4.6    | 2.3   | 0.9   | 0.6   | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 2.9    | 1.4   | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.4    | 0.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 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)