

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: P457907

Luminaire Tested: **GLAN-SA9B-740-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457907  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9B-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42264 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 364  
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

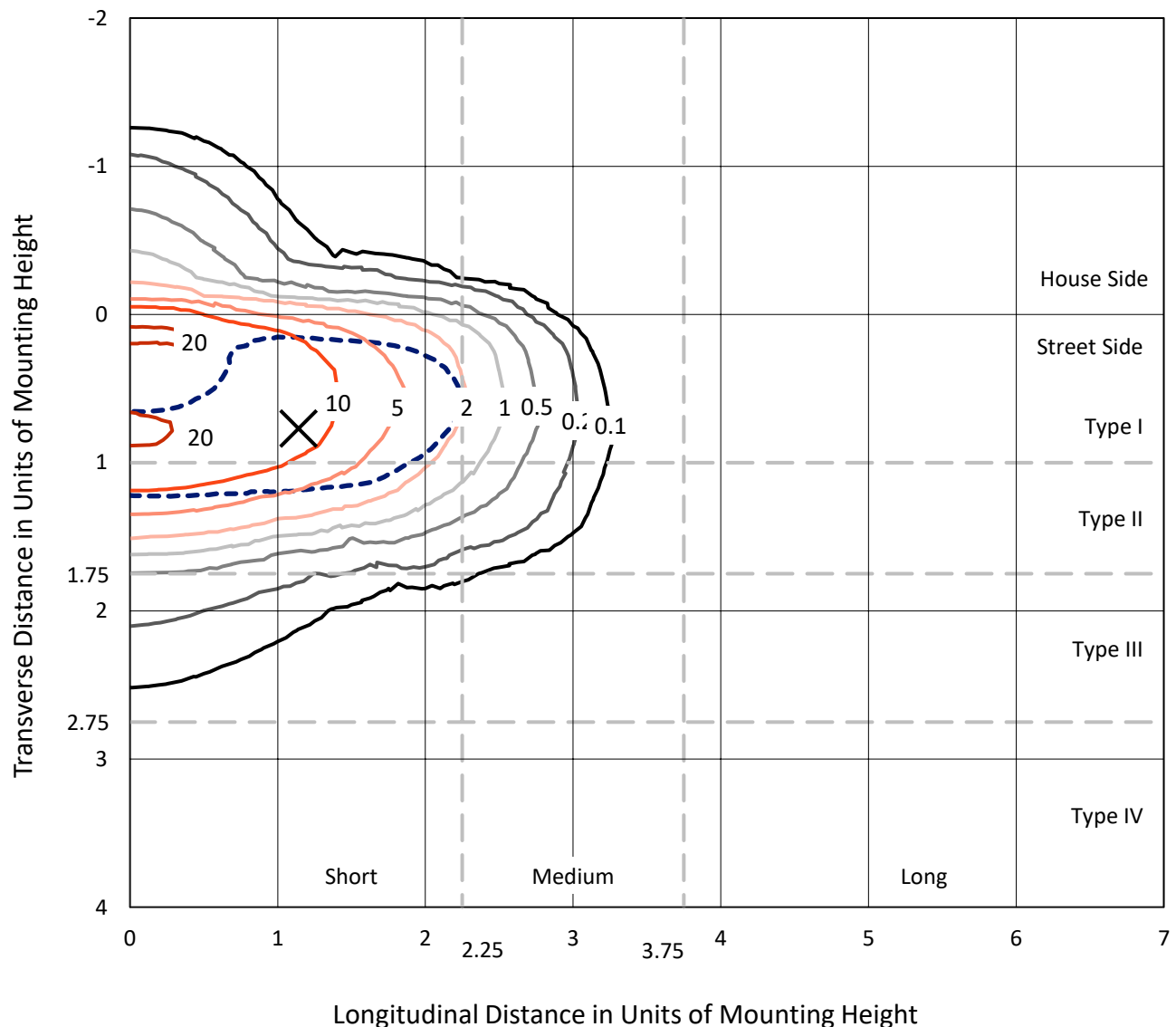


REPORT NUMBER: P457907

CATALOG NUMBER: GLAN-SA9B-740-U-AFL-HSS

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd



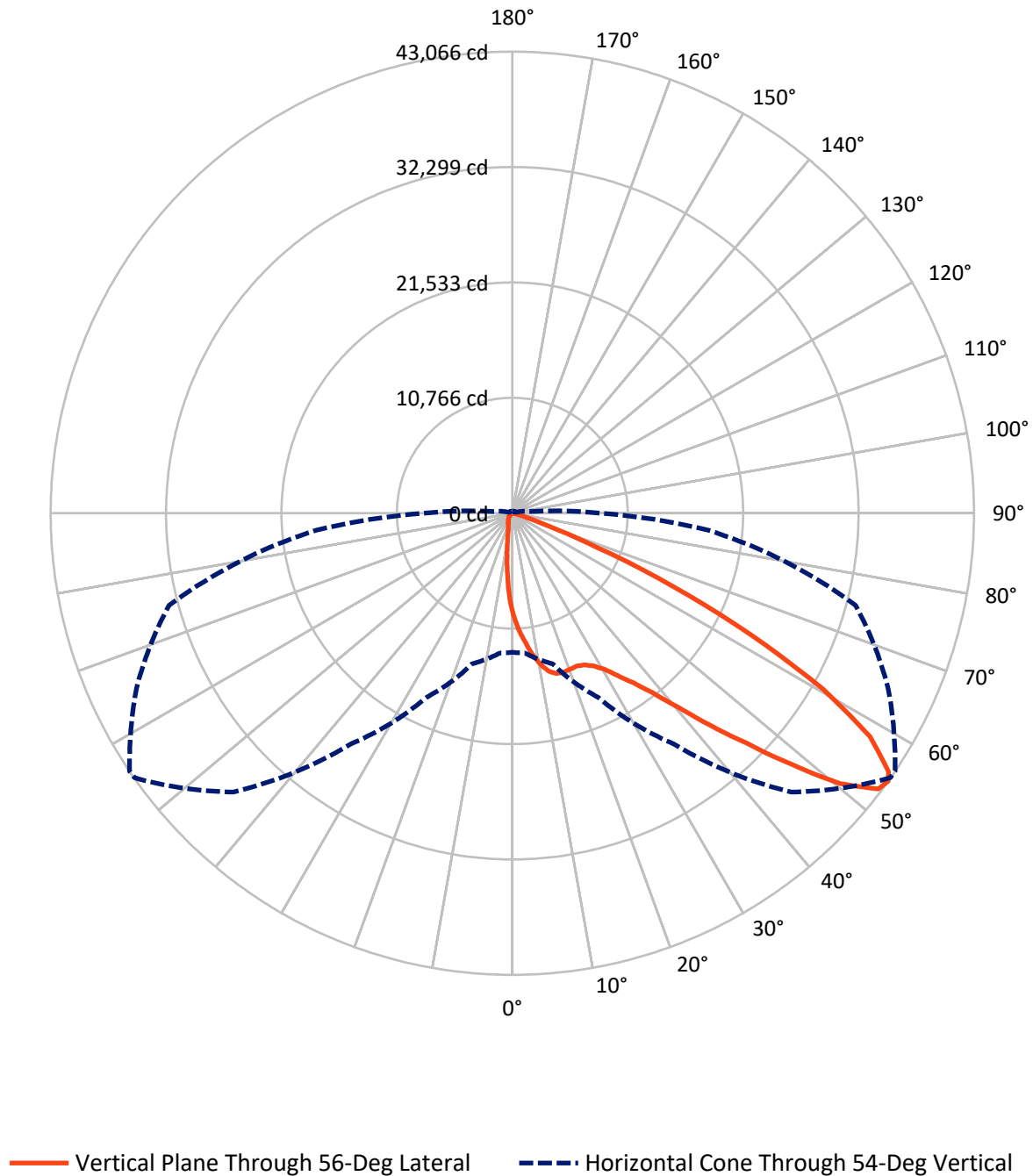
Based on 25 foot mounting height. Maximum calculated value = 22.5 fc

Type II - Short - N/A

REPORT NUMBER: P457907

CATALOG NUMBER: GLAN-SA9B-740-U-AFL-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P457907

CATALOG NUMBER: GLAN-SA9B-740-U-AFL-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1998.6   | 0.0    | 1998.6  |
|                    | % Fixture | 4.7      | 0.0    | 4.7     |
| <b>Street Side</b> | Lumens    | 40265.4  | 0.0    | 40265.4 |
|                    | % Fixture | 95.3     | 0.0    | 95.3    |
| <b>Total</b>       | Lumens    | 42264.0  | 0.0    | 42264.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 829.7   | 2.0       |
| 10°-20°   | 2243.1  | 5.3       |
| 20°-30°   | 3884.8  | 9.2       |
| 30°-40°   | 6705.8  | 15.9      |
| 40°-50°   | 11413.5 | 27.0      |
| 50°-60°   | 11295.1 | 26.7      |
| 60°-70°   | 5155.3  | 12.2      |
| 70°-80°   | 662.1   | 1.6       |
| 80°-90°   | 74.6    | 0.2       |
| 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°    | 42264.0 | 100.0     |
| 0°-180°   | 42264.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P457907

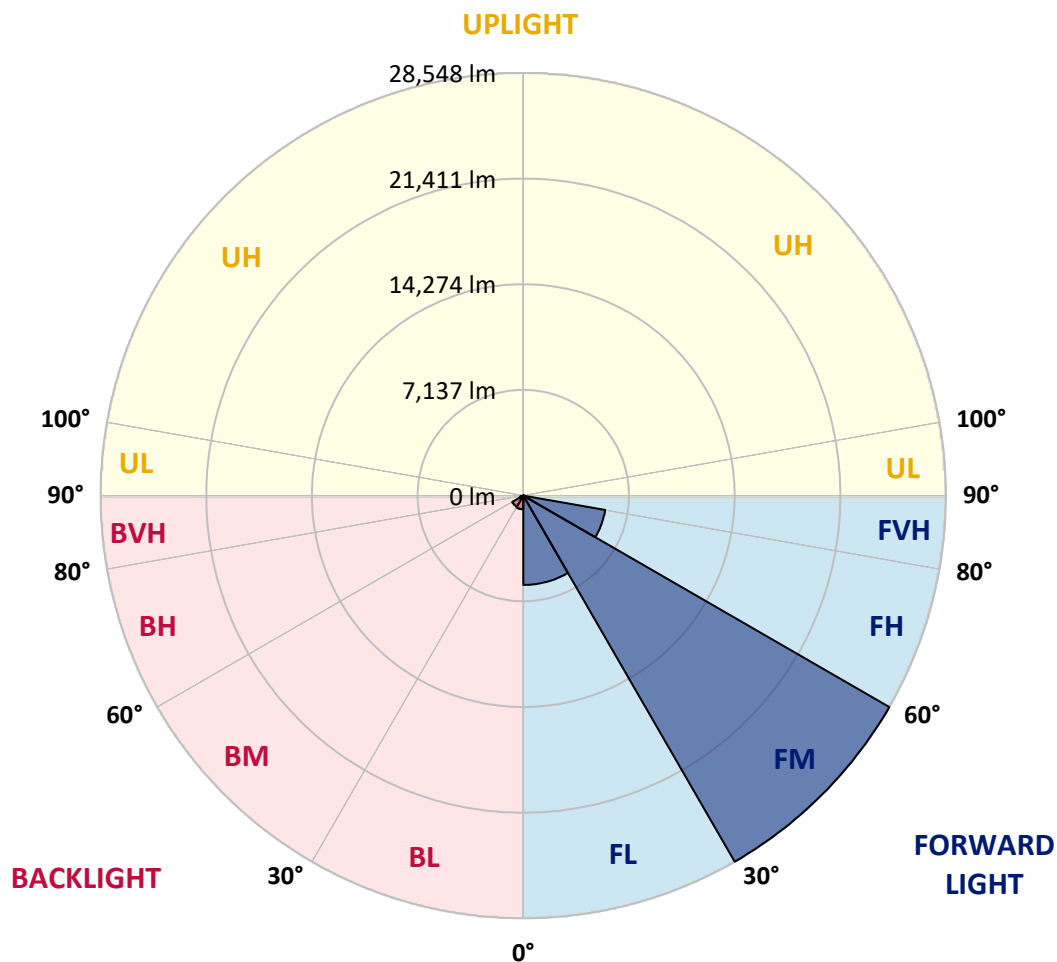
CATALOG NUMBER: GLAN-SA9B-740-U-AFL-HSS

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 6033.3  | 14.3      |                         |      |         |
| FM   | (30°-60°)   | 28548.2 | 67.5      |                         |      |         |
| FH   | (60°-80°)   | 5617.3  | 13.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 66.6    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 924.3   | 2.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 866.1   | 2.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 200.1   | 0.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 8.0     | 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-G3**

Type II Short





REPORT NUMBER: P457907

CATALOG NUMBER: GLAN-SA9B-740-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9389.8  | 9389.8  | 9389.8  | 9389.8  | 9389.8  | 9389.8  | 9389.8  | 9389.8  | 9389.8  | 9389.8  | 9389.8  |
| 2.5°  | 11933.3 | 11850.7 | 11736.6 | 11648.2 | 11440.0 | 11140.6 | 10824.1 | 10824.1 | 10519.0 | 10094.2 | 9660.7  |
| 5°    | 13764.0 | 13709.8 | 13598.6 | 13370.5 | 13136.7 | 12717.5 | 12081.6 | 11970.4 | 11425.8 | 10655.9 | 9846.1  |
| 7.5°  | 14508.2 | 14533.9 | 14539.6 | 14479.7 | 14368.5 | 13955.0 | 13324.9 | 13247.9 | 12378.2 | 11345.9 | 10088.5 |
| 10°   | 13795.3 | 13920.8 | 14043.4 | 14291.5 | 14642.2 | 14742.0 | 14385.6 | 14305.8 | 13450.3 | 12044.6 | 10350.8 |
| 12.5° | 12734.6 | 12803.0 | 12871.5 | 13262.1 | 13966.4 | 14773.4 | 15146.9 | 15144.1 | 14419.8 | 12740.3 | 10684.4 |
| 15°   | 12241.3 | 12301.2 | 12306.9 | 12480.8 | 13091.0 | 14265.8 | 15472.0 | 15514.8 | 15366.5 | 13598.6 | 11043.7 |
| 17.5° | 12344.0 | 12392.4 | 12352.5 | 12395.3 | 12714.6 | 13707.0 | 15434.9 | 15577.5 | 16133.5 | 14422.7 | 11368.8 |
| 20°   | 13014.0 | 13108.1 | 12954.2 | 12834.4 | 12931.4 | 13558.7 | 15309.5 | 15509.1 | 16675.3 | 15226.8 | 11665.3 |
| 22.5° | 14217.4 | 14268.7 | 14074.8 | 13746.9 | 13575.8 | 13869.5 | 15275.3 | 15472.0 | 17137.3 | 15885.5 | 11836.4 |
| 25°   | 15554.7 | 15537.6 | 15323.7 | 14955.9 | 14596.6 | 14496.8 | 15500.5 | 15677.3 | 17519.3 | 16478.6 | 11887.7 |
| 27.5° | 16892.0 | 16943.4 | 16584.1 | 16127.8 | 15697.3 | 15437.8 | 16005.2 | 16136.4 | 17949.9 | 17154.4 | 11950.5 |
| 30°   | 18446.1 | 18363.4 | 18009.8 | 17488.0 | 16994.7 | 16632.5 | 16817.9 | 16855.0 | 18543.0 | 18049.7 | 12115.8 |
| 32.5° | 20467.8 | 20239.6 | 19843.3 | 18930.8 | 18577.2 | 17964.2 | 18009.8 | 18055.4 | 19264.4 | 18936.5 | 12315.4 |
| 35°   | 23210.9 | 23199.4 | 22423.9 | 21194.9 | 20333.7 | 19572.4 | 19372.8 | 19409.9 | 20356.5 | 20253.9 | 12757.4 |
| 37.5° | 26512.8 | 26558.5 | 25674.5 | 24437.0 | 22851.6 | 21642.6 | 21231.9 | 21237.6 | 22016.1 | 22073.1 | 13430.4 |
| 40°   | 29201.8 | 29321.5 | 28794.0 | 27958.5 | 26393.1 | 24502.6 | 23812.5 | 23749.8 | 24348.6 | 24277.3 | 14391.3 |
| 42.5° | 30359.5 | 30470.7 | 30667.4 | 30958.3 | 30097.1 | 28537.4 | 26909.2 | 26994.7 | 27177.2 | 26678.2 | 15469.2 |
| 45°   | 29792.0 | 29968.8 | 30741.6 | 32538.0 | 33347.8 | 32823.1 | 30881.3 | 30581.9 | 29809.1 | 29287.3 | 16552.7 |
| 47.5° | 27428.2 | 27858.7 | 29150.4 | 32141.6 | 34976.0 | 36749.6 | 35363.8 | 34967.4 | 32443.9 | 31192.1 | 17242.8 |
| 50°   | 23541.6 | 23567.3 | 25366.6 | 29190.4 | 34131.9 | 39227.5 | 39940.3 | 39643.8 | 34899.0 | 32261.4 | 17590.6 |
| 52.5° | 17066.0 | 17627.7 | 19275.8 | 23704.2 | 30476.4 | 38851.1 | 42857.4 | 42734.8 | 37431.1 | 32808.9 | 18092.5 |
| 54°   | 12974.1 | 13082.5 | 14548.1 | 18942.2 | 26276.2 | 36783.8 | 43037.0 | 43065.5 | 38688.6 | 33139.6 | 18389.0 |
| 55°   | 10635.9 | 10376.4 | 11916.2 | 16136.4 | 23410.5 | 34956.0 | 42449.6 | 42586.5 | 39253.1 | 33310.7 | 18608.6 |
| 57.5° | 5041.4  | 5044.2  | 6221.9  | 8511.6  | 14662.2 | 27143.0 | 38859.6 | 39344.4 | 39315.9 | 33604.4 | 19284.4 |
| 60°   | 2552.1  | 2569.2  | 2828.6  | 3929.3  | 7242.7  | 18044.0 | 32130.2 | 33285.1 | 36290.5 | 33647.2 | 19506.8 |
| 62.5° | 1785.0  | 1765.1  | 1722.3  | 1890.5  | 3048.2  | 9170.3  | 23920.9 | 24924.6 | 30832.8 | 32019.0 | 18799.7 |
| 65°   | 1528.4  | 1485.6  | 1365.8  | 1340.2  | 1539.8  | 3652.7  | 14898.9 | 16535.6 | 23541.6 | 27724.7 | 16786.5 |
| 67.5° | 1306.0  | 1288.9  | 1180.5  | 1114.9  | 1089.3  | 1591.1  | 7687.5  | 8548.7  | 16090.8 | 19928.8 | 12714.6 |
| 70°   | 1109.2  | 1100.7  | 1035.1  | 952.4   | 881.1   | 952.4   | 2851.5  | 3533.0  | 8967.8  | 10730.0 | 5999.5  |
| 72.5° | 901.1   | 909.6   | 921.0   | 815.5   | 741.4   | 675.8   | 1217.6  | 1417.2  | 3752.5  | 3835.2  | 2098.7  |
| 75°   | 789.9   | 781.3   | 781.3   | 710.0   | 618.8   | 501.9   | 670.1   | 721.4   | 1149.1  | 1066.4  | 487.6   |
| 77.5° | 556.0   | 536.1   | 627.3   | 584.5   | 516.1   | 356.4   | 382.1   | 404.9   | 476.2   | 407.8   | 228.1   |
| 80°   | 384.9   | 384.9   | 402.1   | 524.7   | 464.8   | 259.5   | 233.8   | 250.9   | 282.3   | 242.4   | 131.2   |
| 82.5° | 216.7   | 222.4   | 262.3   | 279.4   | 270.9   | 173.9   | 154.0   | 156.8   | 188.2   | 165.4   | 82.7    |
| 85°   | 25.7    | 42.8    | 151.1   | 148.3   | 111.2   | 77.0    | 85.5    | 88.4    | 116.9   | 102.7   | 48.5    |
| 87.5° | 2.9     | 5.7     | 31.4    | 39.9    | 28.5    | 31.4    | 31.4    | 31.4    | 39.9    | 45.6    | 34.2    |
| 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: P457907

CATALOG NUMBER: GLAN-SA9B-740-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 9389.8 | 9389.8 | 9389.8 | 9389.8 | 9389.8 | 9389.8 | 9389.8 | 9389.8 | 9389.8 | 9389.8 | 9389.8 |
| 2.5°  | 9426.9 | 9210.2 | 8694.1 | 8095.3 | 7713.2 | 7091.6 | 6566.9 | 6187.7 | 6093.6 | 5911.1 | 5965.2 |
| 5°    | 9415.5 | 8965.0 | 7912.8 | 6800.7 | 5614.5 | 4730.6 | 4071.9 | 3552.9 | 3324.8 | 3173.7 | 3068.2 |
| 7.5°  | 9421.2 | 8716.9 | 7028.8 | 5258.1 | 3840.9 | 2974.1 | 2363.9 | 2047.3 | 1836.3 | 1747.9 | 1759.3 |
| 10°   | 9438.3 | 8437.5 | 6002.3 | 3895.1 | 2592.0 | 1921.9 | 1548.3 | 1397.2 | 1325.9 | 1314.5 | 1311.7 |
| 12.5° | 9478.2 | 8132.4 | 5021.4 | 2891.4 | 1813.5 | 1397.2 | 1254.6 | 1203.3 | 1180.5 | 1180.5 | 1171.9 |
| 15°   | 9521.0 | 7795.9 | 4205.9 | 2150.0 | 1397.2 | 1200.5 | 1134.9 | 1109.2 | 1095.0 | 1095.0 | 1092.1 |
| 17.5° | 9521.0 | 7408.1 | 3444.6 | 1668.1 | 1203.3 | 1103.5 | 1052.2 | 1018.0 | 1006.6 | 1006.6 | 1003.7 |
| 20°   | 9461.1 | 6957.6 | 2768.8 | 1343.0 | 1092.1 | 1012.3 | 960.9  | 923.9  | 909.6  | 903.9  | 901.1  |
| 22.5° | 9253.0 | 6355.9 | 2204.2 | 1154.8 | 1000.9 | 932.4  | 866.8  | 824.1  | 812.7  | 807.0  | 809.8  |
| 25°   | 8882.3 | 5677.2 | 1745.1 | 1015.1 | 918.2  | 835.5  | 778.4  | 747.1  | 735.7  | 735.7  | 738.5  |
| 27.5° | 8500.2 | 4967.2 | 1383.0 | 909.6  | 818.4  | 744.2  | 698.6  | 678.6  | 675.8  | 684.3  | 687.2  |
| 30°   | 8146.6 | 4254.4 | 1120.6 | 824.1  | 730.0  | 667.2  | 635.9  | 630.2  | 630.2  | 633.0  | 635.9  |
| 32.5° | 7753.1 | 3629.9 | 938.1  | 749.9  | 658.7  | 604.5  | 587.4  | 587.4  | 593.1  | 593.1  | 598.8  |
| 35°   | 7505.0 | 3093.8 | 824.1  | 678.6  | 604.5  | 558.9  | 547.5  | 550.3  | 558.9  | 570.3  | 576.0  |
| 37.5° | 7371.0 | 2666.1 | 749.9  | 621.6  | 553.2  | 521.8  | 510.4  | 516.1  | 536.1  | 556.0  | 558.9  |
| 40°   | 7382.4 | 2343.9 | 690.1  | 573.1  | 513.3  | 479.0  | 470.5  | 487.6  | 507.6  | 527.5  | 530.4  |
| 42.5° | 7507.9 | 2104.4 | 633.0  | 516.1  | 479.0  | 430.6  | 427.7  | 444.8  | 453.4  | 473.3  | 476.2  |
| 45°   | 7656.2 | 1930.4 | 573.1  | 456.2  | 416.3  | 373.5  | 376.4  | 390.6  | 402.1  | 433.4  | 439.1  |
| 47.5° | 7701.8 | 1810.7 | 504.7  | 387.8  | 342.2  | 327.9  | 330.8  | 339.3  | 362.1  | 390.6  | 393.5  |
| 50°   | 7753.1 | 1736.5 | 439.1  | 327.9  | 290.8  | 288.0  | 290.8  | 296.6  | 310.8  | 322.2  | 319.4  |
| 52.5° | 7972.7 | 1733.7 | 384.9  | 285.1  | 248.1  | 253.8  | 256.6  | 253.8  | 242.4  | 225.3  | 219.6  |
| 54°   | 8178.0 | 1742.2 | 359.3  | 265.2  | 228.1  | 236.7  | 233.8  | 219.6  | 191.0  | 173.9  | 165.4  |
| 55°   | 8343.4 | 1750.8 | 345.0  | 250.9  | 216.7  | 219.6  | 222.4  | 193.9  | 156.8  | 139.7  | 134.0  |
| 57.5° | 8668.4 | 1730.8 | 310.8  | 219.6  | 191.0  | 179.6  | 176.8  | 128.3  | 85.5   | 74.1   | 68.4   |
| 60°   | 8505.9 | 1562.6 | 282.3  | 188.2  | 162.5  | 145.4  | 119.8  | 71.3   | 42.8   | 31.4   | 31.4   |
| 62.5° | 7867.2 | 1325.9 | 250.9  | 154.0  | 134.0  | 111.2  | 62.7   | 39.9   | 20.0   | 11.4   | 8.6    |
| 65°   | 7037.4 | 1114.9 | 225.3  | 122.6  | 105.5  | 71.3   | 34.2   | 25.7   | 8.6    | 0.0    | 0.0    |
| 67.5° | 5232.4 | 826.9  | 191.0  | 96.9   | 79.8   | 45.6   | 22.8   | 14.3   | 2.9    | 0.0    | 0.0    |
| 70°   | 2423.7 | 504.7  | 162.5  | 74.1   | 57.0   | 34.2   | 17.1   | 8.6    | 0.0    | 0.0    | 0.0    |
| 72.5° | 695.8  | 316.5  | 134.0  | 54.2   | 39.9   | 28.5   | 14.3   | 5.7    | 2.9    | 0.0    | 0.0    |
| 75°   | 242.4  | 253.8  | 99.8   | 39.9   | 31.4   | 20.0   | 11.4   | 5.7    | 2.9    | 0.0    | 0.0    |
| 77.5° | 145.4  | 205.3  | 62.7   | 34.2   | 25.7   | 17.1   | 11.4   | 5.7    | 2.9    | 2.9    | 0.0    |
| 80°   | 82.7   | 136.9  | 39.9   | 28.5   | 22.8   | 14.3   | 8.6    | 5.7    | 2.9    | 2.9    | 0.0    |
| 82.5° | 45.6   | 65.6   | 31.4   | 25.7   | 20.0   | 14.3   | 8.6    | 5.7    | 2.9    | 2.9    | 2.9    |
| 85°   | 37.1   | 34.2   | 25.7   | 22.8   | 17.1   | 11.4   | 8.6    | 2.9    | 0.0    | 0.0    | 0.0    |
| 87.5° | 28.5   | 22.8   | 22.8   | 22.8   | 17.1   | 11.4   | 8.6    | 2.9    | 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)