

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: P652667

Luminaire Tested: **GLAN-SA1C-840-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1C-840-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4921.5 lumens  
Efficiency: N/A  
Efficacy: 86.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

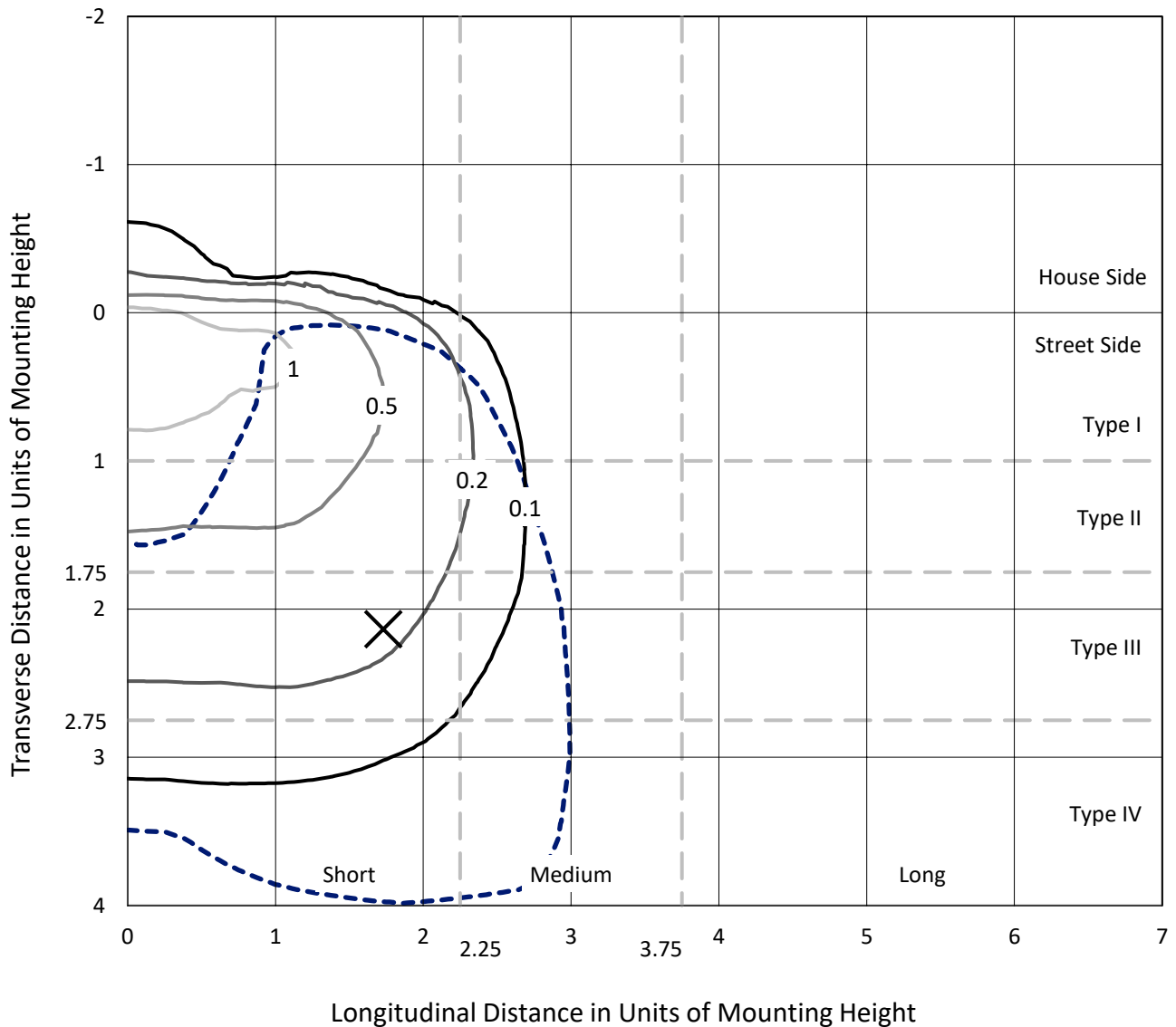
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P652667  
 CATALOG NUMBER: GLAN-SA1C-840-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

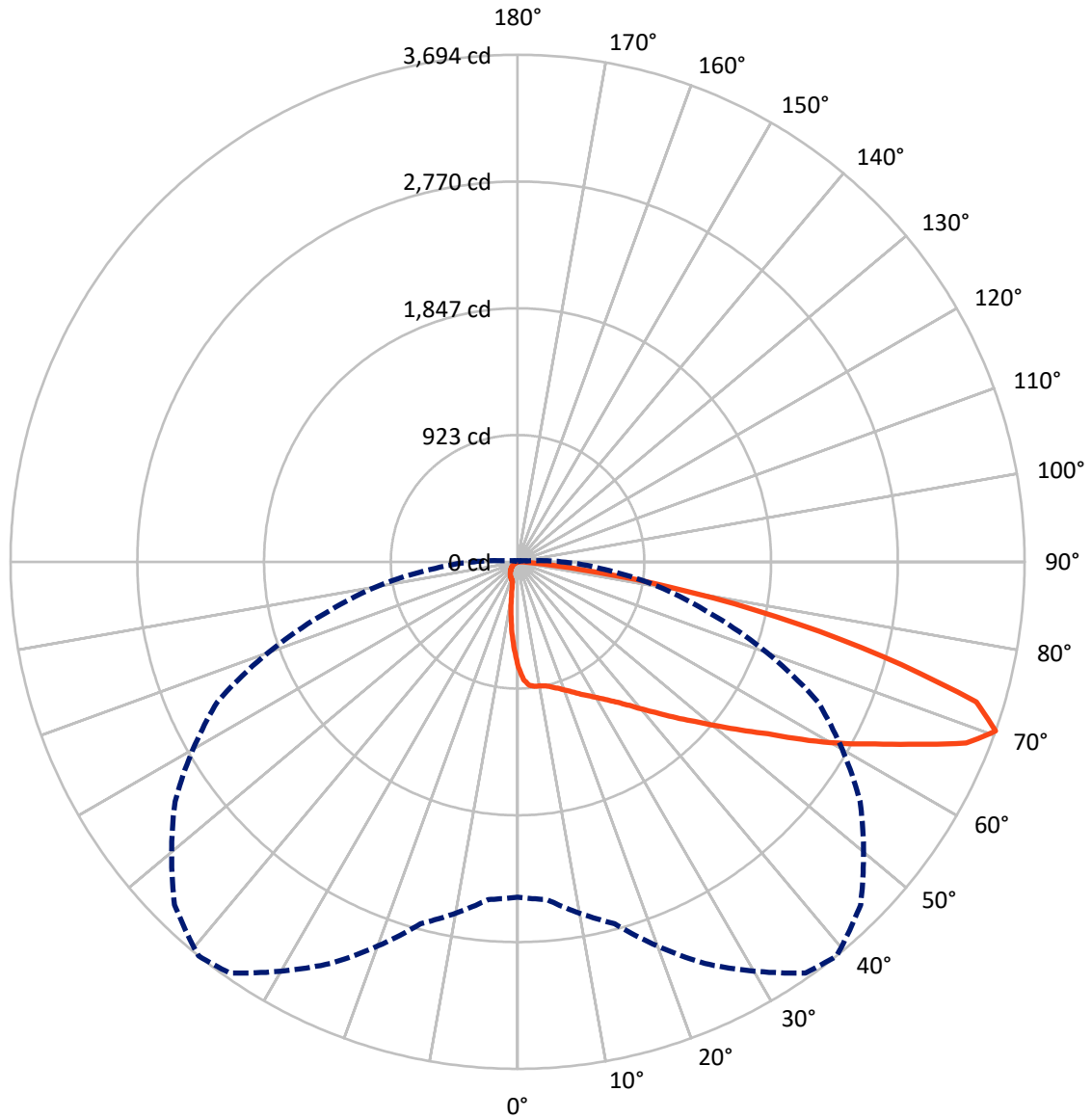
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P652667  
CATALOG NUMBER: GLAN-SA1C-840-U-SL4-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P652667  
 CATALOG NUMBER: GLAN-SA1C-840-U-SL4-HSS

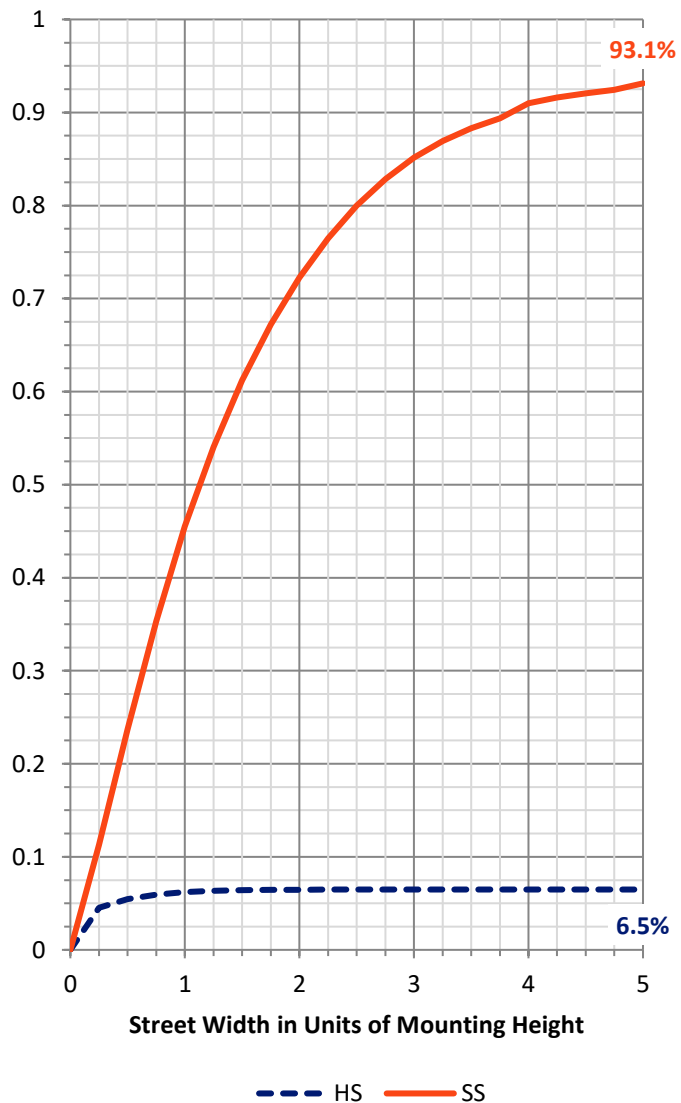
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 320.9    | 0.0    | 320.9  |
|                    | % Fixture | 6.5      | 0.0    | 6.5    |
| <b>Street Side</b> | Lumens    | 4600.6   | 0.0    | 4600.6 |
|                    | % Fixture | 93.5     | 0.0    | 93.5   |
| <b>Total</b>       | Lumens    | 4921.5   | 0.0    | 4921.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 65.5   | 1.3       |
| 10°-20°   | 170.2  | 3.5       |
| 20°-30°   | 285.1  | 5.8       |
| 30°-40°   | 442.2  | 9.0       |
| 40°-50°   | 700.8  | 14.2      |
| 50°-60°   | 1027.3 | 20.9      |
| 60°-70°   | 1316.7 | 26.8      |
| 70°-80°   | 827.4  | 16.8      |
| 80°-90°   | 86.2   | 1.8       |
| 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°    | 4921.5 | 100.0     |
| 0°-180°   | 4921.5 | 100.0     |

**Coefficient of Utilization**



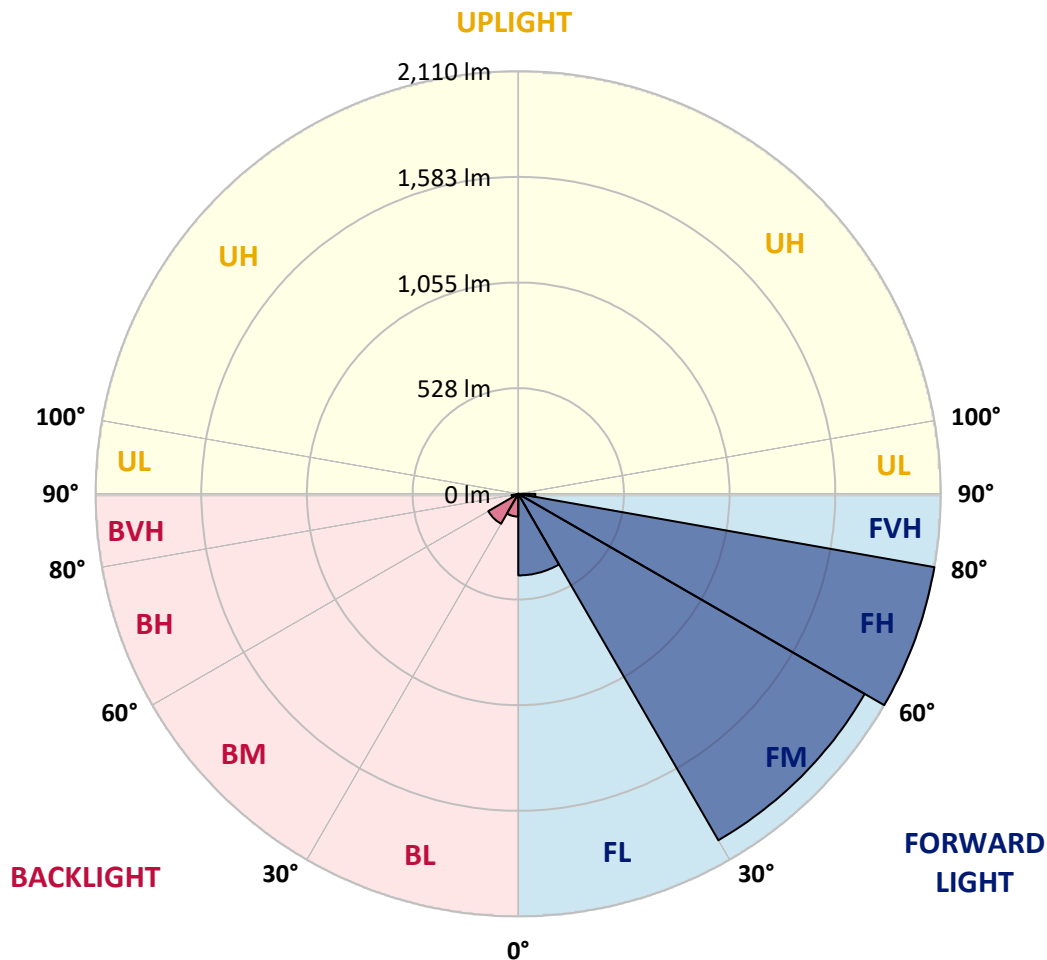
REPORT NUMBER: P652667  
 CATALOG NUMBER: GLAN-SA1C-840-U-SL4-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 407.2  | 8.3       |                         |      |         |
| FM (30°-60°)   | 1997.6 | 40.6      |                         |      |         |
| FH (60°-80°)   | 2110.2 | 42.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 85.6   | 1.7       |                         |      | G1/100  |
| BL (0°-30°)    | 113.6  | 2.3       | B1/500                  |      |         |
| BM (30°-60°)   | 172.7  | 3.5       | B0/220                  |      |         |
| BH (60°-80°)   | 33.9   | 0.7       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.6    | 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-G2**

Type IV Short





REPORT NUMBER: P652667

CATALOG NUMBER: GLAN-SA1C-840-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 39°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 767.9  | 767.9  | 767.9  | 767.9  | 767.9  | 767.9  | 767.9  | 767.9  | 767.9  | 767.9  | 767.9  |
| 2.5°  | 887.3  | 884.3  | 880.4  | 875.7  | 862.5  | 860.2  | 852.3  | 835.4  | 815.2  | 798.7  | 775.9  |
| 5°    | 929.3  | 931.0  | 928.0  | 919.7  | 910.1  | 904.5  | 894.6  | 868.5  | 842.3  | 809.0  | 771.5  |
| 7.5°  | 938.9  | 942.3  | 938.6  | 930.7  | 921.4  | 915.4  | 907.5  | 885.0  | 854.5  | 816.5  | 765.3  |
| 10°   | 937.9  | 941.9  | 939.6  | 932.3  | 924.7  | 919.0  | 910.5  | 892.6  | 868.2  | 828.1  | 767.2  |
| 12.5° | 936.3  | 941.6  | 941.2  | 937.5  | 931.3  | 927.0  | 921.7  | 905.8  | 883.0  | 845.0  | 778.2  |
| 15°   | 931.7  | 938.2  | 944.2  | 947.2  | 947.5  | 947.5  | 940.9  | 924.0  | 902.2  | 867.2  | 792.4  |
| 17.5° | 933.6  | 941.2  | 956.1  | 964.7  | 970.7  | 970.0  | 963.0  | 944.9  | 920.7  | 889.9  | 807.3  |
| 20°   | 945.9  | 956.1  | 976.9  | 994.1  | 1000.1 | 998.1  | 988.8  | 967.7  | 940.2  | 909.5  | 821.8  |
| 22.5° | 976.0  | 985.2  | 1011.3 | 1031.5 | 1035.8 | 1030.5 | 1017.3 | 988.5  | 963.7  | 930.7  | 839.4  |
| 25°   | 1020.9 | 1031.8 | 1056.0 | 1071.2 | 1071.2 | 1068.2 | 1049.7 | 1015.9 | 990.2  | 960.1  | 862.2  |
| 27.5° | 1075.5 | 1084.7 | 1108.6 | 1122.1 | 1114.2 | 1105.6 | 1087.1 | 1046.4 | 1021.6 | 997.1  | 889.6  |
| 30°   | 1130.7 | 1136.7 | 1161.8 | 1167.7 | 1159.5 | 1148.6 | 1128.7 | 1088.1 | 1066.2 | 1047.4 | 929.3  |
| 32.5° | 1183.0 | 1195.9 | 1216.7 | 1215.4 | 1204.1 | 1198.8 | 1180.7 | 1137.4 | 1125.1 | 1123.2 | 984.9  |
| 35°   | 1235.3 | 1245.2 | 1263.7 | 1268.3 | 1258.4 | 1257.4 | 1244.2 | 1212.0 | 1212.4 | 1225.3 | 1071.5 |
| 37.5° | 1280.2 | 1289.2 | 1311.0 | 1321.2 | 1323.2 | 1328.2 | 1322.9 | 1301.7 | 1331.8 | 1367.2 | 1186.3 |
| 40°   | 1317.9 | 1330.5 | 1358.3 | 1376.1 | 1396.6 | 1414.8 | 1415.8 | 1420.4 | 1480.9 | 1541.8 | 1336.1 |
| 42.5° | 1347.4 | 1364.9 | 1405.2 | 1438.3 | 1485.3 | 1508.4 | 1526.9 | 1552.4 | 1654.2 | 1745.2 | 1512.7 |
| 45°   | 1385.7 | 1405.9 | 1456.2 | 1508.1 | 1581.5 | 1619.5 | 1645.3 | 1713.5 | 1857.9 | 1982.0 | 1693.9 |
| 47.5° | 1449.2 | 1459.8 | 1511.0 | 1586.8 | 1683.3 | 1737.6 | 1787.9 | 1891.1 | 2076.6 | 2187.7 | 1844.7 |
| 50°   | 1530.9 | 1537.9 | 1576.5 | 1681.7 | 1806.7 | 1878.1 | 1969.8 | 2091.1 | 2303.4 | 2358.3 | 1930.1 |
| 52.5° | 1621.2 | 1623.5 | 1652.6 | 1786.2 | 1945.0 | 2034.9 | 2137.4 | 2287.3 | 2488.4 | 2480.0 | 1986.6 |
| 55°   | 1726.0 | 1722.7 | 1747.5 | 1899.7 | 2108.6 | 2211.5 | 2330.9 | 2488.0 | 2648.7 | 2566.4 | 2019.1 |
| 57.5° | 1846.1 | 1837.2 | 1861.3 | 2050.1 | 2318.3 | 2441.3 | 2562.7 | 2661.3 | 2773.1 | 2638.8 | 2034.5 |
| 60°   | 1971.7 | 1953.9 | 1982.7 | 2219.1 | 2565.4 | 2682.1 | 2783.0 | 2809.4 | 2904.1 | 2696.3 | 2007.8 |
| 62.5° | 2072.0 | 2072.3 | 2125.9 | 2399.0 | 2819.4 | 2921.5 | 2975.1 | 2998.9 | 3016.8 | 2683.8 | 1866.9 |
| 65°   | 2228.4 | 2233.7 | 2319.3 | 2648.7 | 3113.4 | 3202.0 | 3238.7 | 3161.3 | 3021.8 | 2527.7 | 1655.3 |
| 67.5° | 2389.8 | 2406.6 | 2563.4 | 2992.7 | 3453.1 | 3524.5 | 3477.2 | 3192.8 | 2886.8 | 2171.5 | 1255.1 |
| 70°   | 2442.3 | 2470.1 | 2728.5 | 3229.4 | 3656.8 | 3693.8 | 3533.7 | 3046.3 | 2413.2 | 1451.8 | 631.7  |
| 72.5° | 2238.0 | 2283.0 | 2633.5 | 3143.2 | 3526.8 | 3494.7 | 3161.7 | 2554.8 | 1534.2 | 551.3  | 192.8  |
| 75°   | 1578.2 | 1598.1 | 2188.7 | 2607.4 | 2836.6 | 2745.6 | 2405.0 | 1647.0 | 631.0  | 154.7  | 66.1   |
| 77.5° | 814.9  | 805.3  | 1301.7 | 1730.0 | 2023.0 | 1928.7 | 1574.9 | 852.6  | 239.1  | 64.5   | 41.0   |
| 80°   | 421.3  | 428.3  | 563.2  | 906.5  | 1234.9 | 1136.4 | 839.7  | 395.2  | 127.3  | 35.7   | 31.5   |
| 82.5° | 236.2  | 221.6  | 323.8  | 395.9  | 577.4  | 452.8  | 322.1  | 279.8  | 55.6   | 21.5   | 29.8   |
| 85°   | 43.0   | 45.0   | 177.6  | 214.0  | 200.4  | 127.3  | 103.9  | 186.9  | 16.2   | 11.9   | 20.9   |
| 87.5° | 0.7    | 0.7    | 34.4   | 61.5   | 39.0   | 17.8   | 32.7   | 26.8   | 3.3    | 4.6    | 3.6    |
| 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: P652667

CATALOG NUMBER: GLAN-SA1C-840-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 767.9  | 767.9 | 767.9 | 767.9 | 767.9 | 767.9 | 767.9 | 767.9 | 767.9 | 767.9 | 767.9 |
| 2.5°  | 764.3  | 751.7 | 728.2 | 705.1 | 675.7 | 651.5 | 635.3 | 618.5 | 601.2 | 602.6 | 606.5 |
| 5°    | 751.1  | 729.2 | 682.9 | 633.9 | 587.0 | 544.7 | 503.0 | 465.7 | 450.4 | 436.6 | 437.2 |
| 7.5°  | 737.8  | 707.1 | 639.2 | 562.5 | 491.5 | 419.3 | 367.1 | 324.1 | 301.2 | 284.1 | 279.1 |
| 10°   | 731.8  | 691.2 | 599.3 | 493.8 | 392.9 | 314.2 | 247.1 | 212.0 | 184.9 | 176.3 | 178.6 |
| 12.5° | 734.5  | 683.2 | 563.2 | 431.6 | 311.5 | 218.9 | 172.0 | 154.2 | 148.2 | 147.2 | 146.5 |
| 15°   | 739.5  | 677.7 | 527.8 | 362.8 | 228.8 | 162.7 | 144.5 | 141.2 | 140.5 | 139.9 | 140.2 |
| 17.5° | 746.1  | 672.7 | 490.1 | 298.3 | 175.6 | 142.2 | 136.9 | 135.2 | 134.9 | 134.9 | 134.9 |
| 20°   | 752.7  | 667.1 | 448.1 | 240.8 | 146.5 | 134.3 | 130.9 | 129.9 | 129.7 | 129.7 | 129.3 |
| 22.5° | 760.3  | 662.1 | 405.4 | 189.1 | 134.9 | 128.7 | 125.6 | 125.0 | 124.7 | 124.4 | 124.4 |
| 25°   | 771.2  | 655.8 | 360.1 | 154.7 | 127.7 | 123.4 | 120.3 | 119.8 | 119.4 | 118.1 | 118.4 |
| 27.5° | 785.7  | 651.2 | 313.5 | 133.6 | 121.0 | 116.7 | 114.8 | 113.8 | 113.1 | 112.1 | 112.4 |
| 30°   | 805.6  | 647.2 | 263.9 | 122.0 | 113.5 | 109.8 | 107.8 | 107.1 | 106.5 | 105.5 | 105.5 |
| 32.5° | 840.0  | 648.8 | 211.7 | 112.8 | 106.5 | 102.2 | 100.2 | 99.6  | 98.9  | 97.9  | 97.9  |
| 35°   | 891.6  | 658.4 | 169.3 | 104.9 | 98.2  | 93.9  | 91.9  | 91.9  | 90.9  | 89.7  | 89.3  |
| 37.5° | 976.0  | 682.9 | 135.9 | 97.2  | 90.3  | 86.3  | 84.0  | 83.3  | 82.3  | 80.4  | 80.1  |
| 40°   | 1075.5 | 721.0 | 114.5 | 89.7  | 83.0  | 79.1  | 77.0  | 75.1  | 72.4  | 70.5  | 70.1  |
| 42.5° | 1200.5 | 760.0 | 99.2  | 82.0  | 76.0  | 72.4  | 70.1  | 66.8  | 62.8  | 60.2  | 59.9  |
| 45°   | 1330.8 | 795.7 | 89.0  | 75.1  | 69.5  | 66.4  | 63.8  | 58.5  | 53.6  | 50.3  | 50.0  |
| 47.5° | 1428.0 | 802.3 | 80.7  | 68.5  | 63.8  | 60.9  | 57.2  | 50.6  | 44.0  | 41.0  | 40.0  |
| 50°   | 1474.0 | 770.3 | 72.1  | 61.8  | 58.2  | 54.9  | 50.3  | 42.6  | 35.4  | 31.8  | 31.1  |
| 52.5° | 1490.3 | 714.7 | 65.2  | 55.9  | 52.6  | 48.6  | 43.0  | 34.4  | 27.8  | 24.1  | 23.8  |
| 55°   | 1483.6 | 644.5 | 58.9  | 50.3  | 46.0  | 41.4  | 35.7  | 27.4  | 20.5  | 17.5  | 16.9  |
| 57.5° | 1448.9 | 555.3 | 52.6  | 44.7  | 39.4  | 34.7  | 28.4  | 20.5  | 13.9  | 11.3  | 10.9  |
| 60°   | 1355.3 | 433.5 | 46.3  | 38.3  | 33.4  | 28.4  | 22.5  | 14.5  | 8.6   | 6.3   | 6.3   |
| 62.5° | 1197.2 | 321.8 | 40.4  | 32.0  | 28.1  | 22.8  | 15.9  | 9.3   | 4.6   | 3.3   | 2.9   |
| 65°   | 1000.5 | 237.4 | 33.7  | 27.1  | 23.5  | 17.8  | 11.3  | 5.6   | 2.4   | 1.0   | 0.7   |
| 67.5° | 698.1  | 146.5 | 28.1  | 22.1  | 19.2  | 12.9  | 7.0   | 2.4   | 1.0   | 0.0   | 0.0   |
| 70°   | 317.1  | 69.8  | 21.5  | 16.9  | 14.5  | 9.3   | 3.6   | 1.3   | 0.7   | 0.0   | 0.0   |
| 72.5° | 98.6   | 36.8  | 15.2  | 12.3  | 9.9   | 6.0   | 2.0   | 1.0   | 0.7   | 0.0   | 0.0   |
| 75°   | 45.7   | 23.5  | 9.6   | 6.6   | 5.6   | 2.9   | 1.3   | 0.7   | 0.3   | 0.0   | 0.0   |
| 77.5° | 34.1   | 18.2  | 5.6   | 3.6   | 2.9   | 2.0   | 1.0   | 0.7   | 0.3   | 0.0   | 0.0   |
| 80°   | 29.8   | 9.3   | 3.3   | 2.4   | 1.7   | 1.3   | 0.7   | 0.3   | 0.0   | 0.0   | 0.0   |
| 82.5° | 26.8   | 4.6   | 2.0   | 1.3   | 1.0   | 0.7   | 0.3   | 0.3   | 0.0   | 0.0   | 0.0   |
| 85°   | 14.5   | 2.6   | 1.3   | 1.0   | 0.7   | 0.3   | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 2.6    | 1.3   | 1.0   | 0.7   | 0.7   | 0.3   | 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)