

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: P450584

Luminaire Tested: **GLAN-SA1B-827-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450584  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1B-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3164 lumens  
Efficiency: N/A  
Efficacy: 71.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

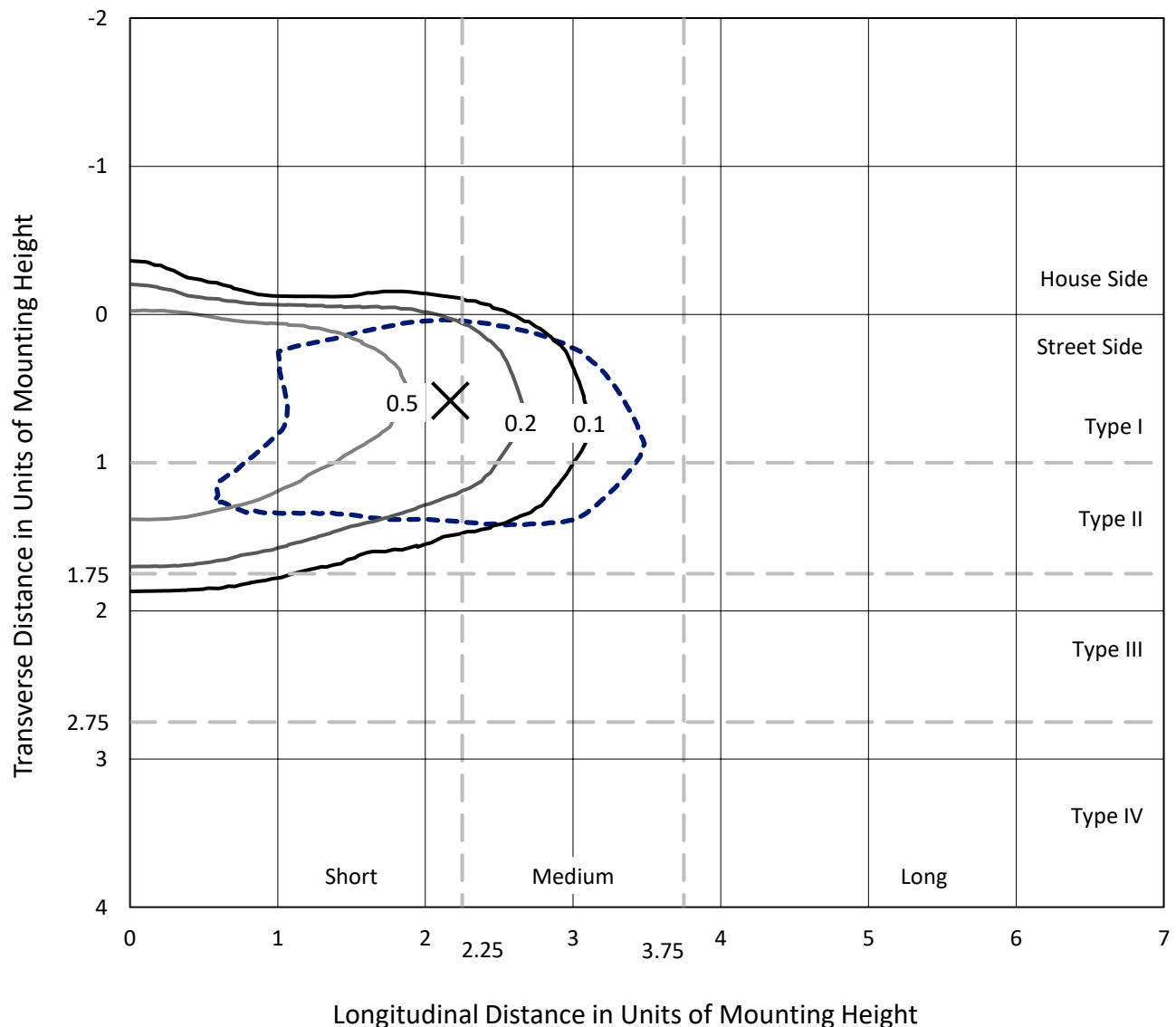


REPORT NUMBER: P450584

CATALOG NUMBER: GLAN-SA1B-827-U-T2-HSS

## Iso-Footcandle Lines of Horizontal Illumination

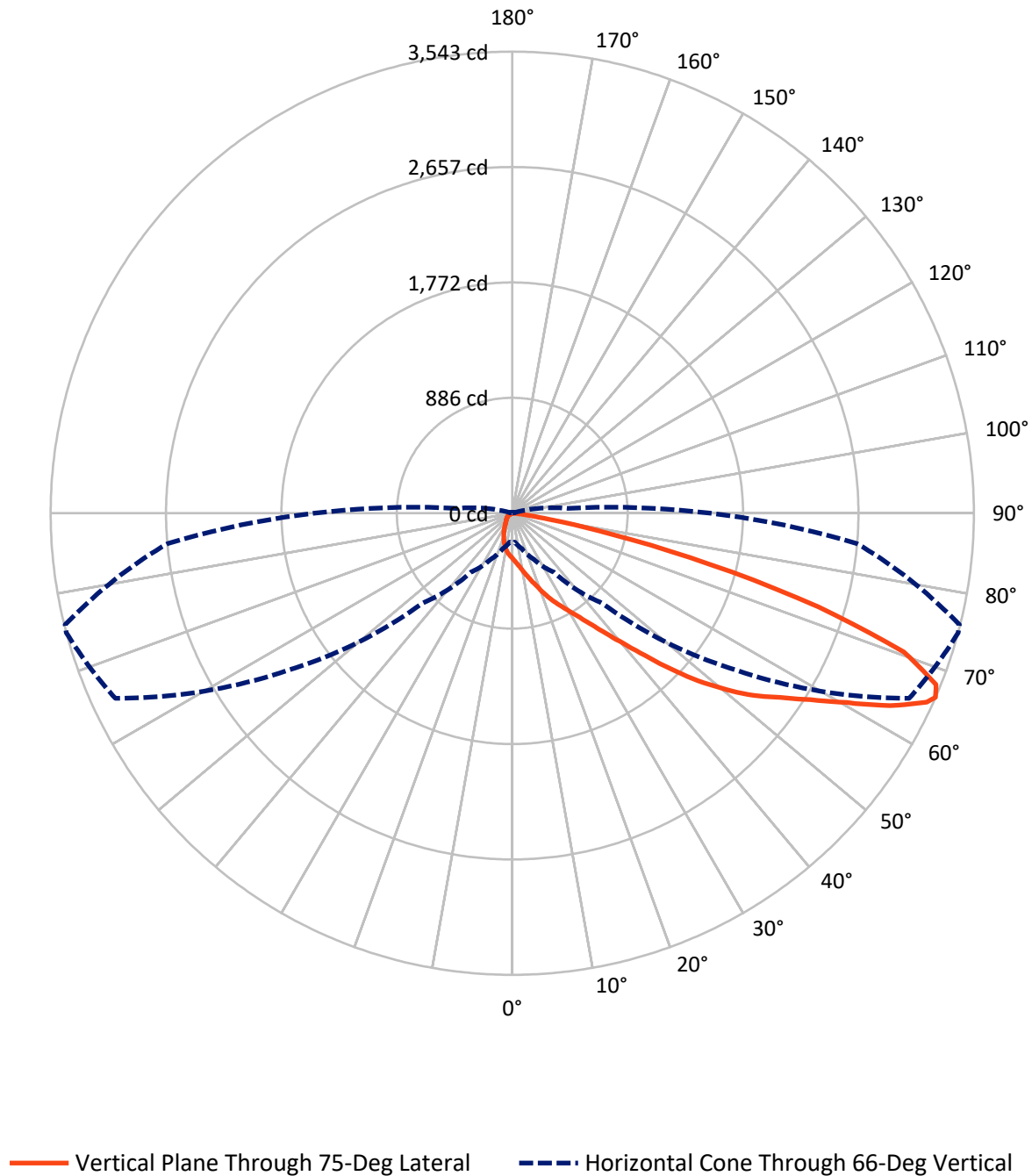
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P450584  
CATALOG NUMBER: GLAN-SA1B-827-U-T2-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P450584

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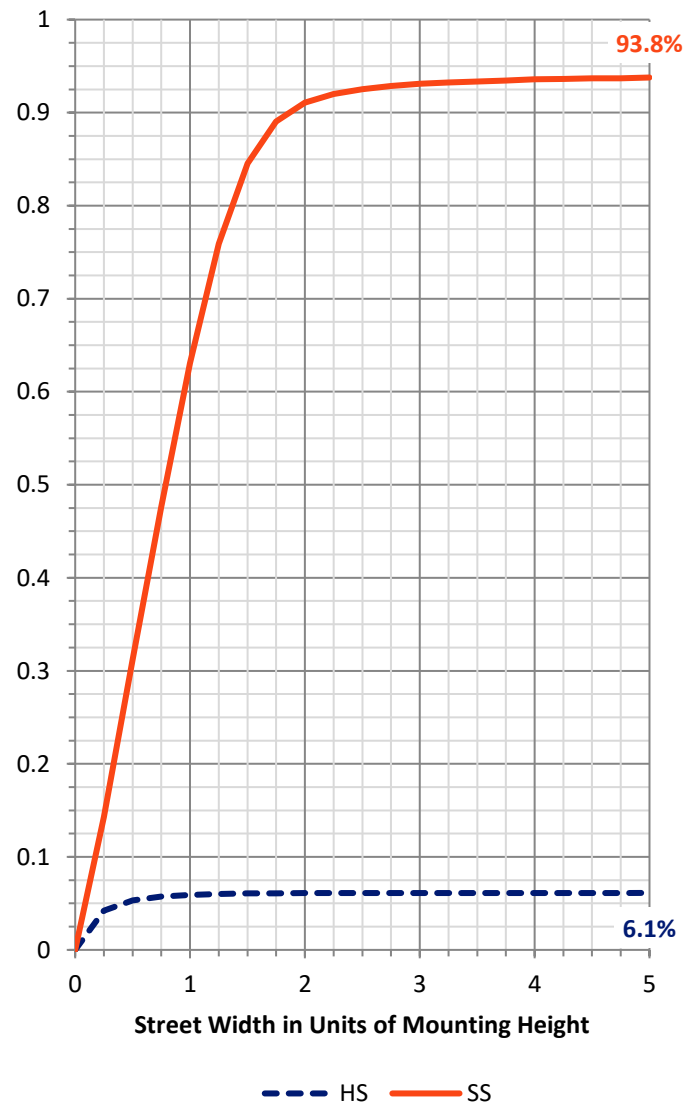
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 195.3    | 0.0    | 195.3  |
|                    | % Fixture | 6.2      | 0.0    | 6.2    |
| <b>Street Side</b> | Lumens    | 2968.7   | 0.0    | 2968.7 |
|                    | % Fixture | 93.8     | 0.0    | 93.8   |
| <b>Total</b>       | Lumens    | 3164.0   | 0.0    | 3164.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 33.4   | 1.1       |
| 10°-20°   | 98.2   | 3.1       |
| 20°-30°   | 169.6  | 5.4       |
| 30°-40°   | 305.9  | 9.7       |
| 40°-50°   | 552.7  | 17.5      |
| 50°-60°   | 861.6  | 27.2      |
| 60°-70°   | 818.5  | 25.9      |
| 70°-80°   | 306.8  | 9.7       |
| 80°-90°   | 17.3   | 0.5       |
| 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°    | 3164.0 | 100.0     |
| 0°-180°   | 3164.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P450584

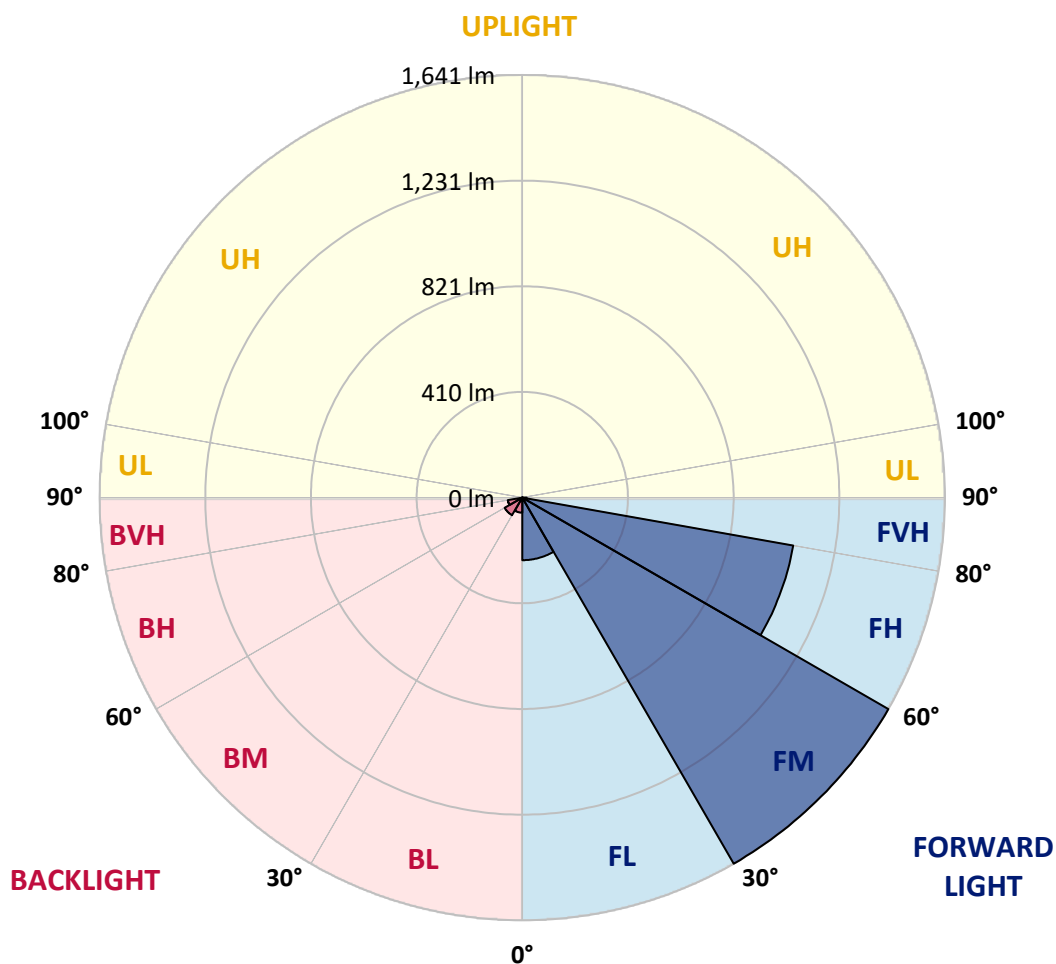
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 242.9  | 7.7       |                         |      |         |
| FM   | (30°-60°)   | 1641.2 | 51.9      |                         |      |         |
| FH   | (60°-80°)   | 1068.2 | 33.8      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 16.4   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 58.3   | 1.8       | B0/110                  |      |         |
| BM   | (30°-60°)   | 79.1   | 2.5       | B0/220                  |      |         |
| BH   | (60°-80°)   | 57.0   | 1.8       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.9    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type II Short





REPORT NUMBER: P450584

CATALOG NUMBER: GLAN-SA1B-827-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 346.0  | 346.0  | 346.0  | 346.0  | 346.0  | 346.0  | 346.0  | 346.0  | 346.0  | 346.0  | 346.0  |
| 2.5°  | 413.4  | 408.2  | 409.9  | 407.5  | 402.2  | 394.2  | 387.2  | 377.1  | 367.1  | 365.4  | 354.2  |
| 5°    | 467.9  | 466.5  | 464.6  | 457.8  | 454.1  | 441.9  | 427.4  | 410.1  | 389.3  | 385.6  | 365.2  |
| 7.5°  | 505.1  | 504.4  | 505.3  | 501.8  | 498.6  | 487.6  | 472.1  | 448.5  | 416.2  | 414.1  | 380.2  |
| 10°   | 517.3  | 519.1  | 522.6  | 528.3  | 533.4  | 529.9  | 518.2  | 488.7  | 451.1  | 445.0  | 397.3  |
| 12.5° | 510.2  | 512.4  | 520.8  | 535.7  | 552.4  | 562.0  | 557.3  | 535.7  | 488.0  | 483.1  | 416.4  |
| 15°   | 492.2  | 494.8  | 506.7  | 529.9  | 559.6  | 586.8  | 598.4  | 583.0  | 531.1  | 523.1  | 439.6  |
| 17.5° | 465.6  | 469.3  | 486.4  | 517.0  | 557.7  | 604.5  | 637.5  | 632.4  | 576.9  | 569.4  | 464.9  |
| 20°   | 445.4  | 448.3  | 462.8  | 497.8  | 549.8  | 614.4  | 674.7  | 689.2  | 633.5  | 620.7  | 494.6  |
| 22.5° | 458.8  | 459.7  | 464.6  | 485.7  | 535.5  | 616.9  | 707.5  | 748.4  | 693.7  | 682.2  | 525.5  |
| 25°   | 524.1  | 514.7  | 509.8  | 505.1  | 532.5  | 614.6  | 737.2  | 810.2  | 753.6  | 741.4  | 556.1  |
| 27.5° | 627.0  | 622.8  | 598.0  | 564.8  | 558.4  | 617.6  | 756.8  | 868.7  | 809.9  | 796.8  | 586.0  |
| 30°   | 739.1  | 731.8  | 716.6  | 667.9  | 619.0  | 639.2  | 771.1  | 925.5  | 876.6  | 859.3  | 613.4  |
| 32.5° | 842.0  | 846.7  | 824.0  | 773.9  | 717.3  | 685.0  | 789.6  | 987.5  | 953.1  | 931.6  | 645.2  |
| 35°   | 962.0  | 971.4  | 936.5  | 888.5  | 822.3  | 767.8  | 825.6  | 1057.5 | 1050.2 | 1023.1 | 694.4  |
| 37.5° | 1083.9 | 1089.5 | 1068.2 | 1000.8 | 941.2  | 873.1  | 893.5  | 1143.8 | 1169.8 | 1146.6 | 753.1  |
| 40°   | 1186.4 | 1194.1 | 1178.4 | 1118.5 | 1054.9 | 995.0  | 992.0  | 1237.8 | 1312.0 | 1288.1 | 840.6  |
| 42.5° | 1264.7 | 1270.6 | 1271.1 | 1228.7 | 1171.4 | 1144.3 | 1117.6 | 1357.9 | 1490.3 | 1462.7 | 942.1  |
| 45°   | 1363.7 | 1372.1 | 1367.2 | 1338.4 | 1295.6 | 1290.7 | 1276.9 | 1502.9 | 1703.6 | 1668.8 | 1073.8 |
| 47.5° | 1516.7 | 1522.3 | 1510.2 | 1476.2 | 1432.7 | 1440.4 | 1432.3 | 1665.5 | 1921.2 | 1891.3 | 1210.2 |
| 50°   | 1622.9 | 1632.3 | 1649.6 | 1663.2 | 1631.6 | 1603.0 | 1578.7 | 1817.3 | 2127.8 | 2100.9 | 1349.7 |
| 52.5° | 1621.8 | 1637.2 | 1691.9 | 1760.3 | 1829.3 | 1820.6 | 1750.7 | 1985.1 | 2325.0 | 2291.8 | 1480.7 |
| 55°   | 1512.5 | 1542.4 | 1622.9 | 1744.1 | 1935.2 | 2030.5 | 1998.7 | 2179.3 | 2495.3 | 2472.9 | 1632.5 |
| 57.5° | 1287.0 | 1305.2 | 1417.0 | 1586.4 | 1876.1 | 2129.2 | 2285.9 | 2442.5 | 2699.6 | 2689.0 | 1868.3 |
| 60°   | 865.6  | 873.8  | 1017.7 | 1227.1 | 1597.2 | 2030.7 | 2496.5 | 2760.9 | 2951.1 | 2945.9 | 2143.7 |
| 62.5° | 496.0  | 499.5  | 603.8  | 780.5  | 1136.5 | 1720.9 | 2514.3 | 3153.7 | 3252.6 | 3255.4 | 2462.3 |
| 65°   | 266.9  | 268.8  | 353.0  | 458.1  | 691.6  | 1226.6 | 2260.9 | 3368.9 | 3496.4 | 3501.8 | 2659.8 |
| 66°   | 230.4  | 221.6  | 281.0  | 390.5  | 550.3  | 976.3  | 2100.7 | 3361.2 | 3543.2 | 3537.4 | 2652.8 |
| 67.5° | 175.2  | 183.2  | 224.4  | 300.2  | 407.8  | 694.1  | 1734.3 | 3211.7 | 3507.6 | 3489.4 | 2544.9 |
| 70°   | 125.4  | 128.7  | 159.8  | 214.1  | 277.7  | 380.9  | 1108.2 | 2667.5 | 3188.1 | 3163.5 | 2217.2 |
| 72.5° | 80.9   | 84.5   | 113.2  | 154.9  | 200.7  | 208.0  | 620.4  | 1927.3 | 2457.9 | 2454.4 | 1669.7 |
| 75°   | 57.8   | 61.1   | 74.9   | 110.9  | 150.9  | 128.7  | 298.8  | 1298.9 | 1562.6 | 1552.0 | 1032.9 |
| 77.5° | 41.9   | 43.5   | 50.1   | 72.5   | 107.9  | 92.2   | 138.5  | 693.7  | 777.9  | 814.6  | 456.4  |
| 80°   | 24.1   | 25.5   | 34.9   | 44.2   | 73.0   | 62.9   | 66.2   | 278.4  | 287.1  | 273.3  | 142.7  |
| 82.5° | 11.9   | 13.6   | 20.8   | 30.2   | 45.6   | 42.3   | 30.4   | 83.8   | 88.4   | 86.1   | 36.0   |
| 85°   | 2.8    | 3.5    | 11.7   | 19.9   | 22.2   | 19.0   | 14.7   | 24.6   | 30.4   | 29.7   | 13.8   |
| 87.5° | 0.2    | 0.5    | 4.2    | 3.5    | 3.7    | 6.3    | 5.1    | 6.3    | 9.8    | 9.1    | 4.9    |
| 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: P450584

CATALOG NUMBER: GLAN-SA1B-827-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 346.0  | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 |
| 2.5°  | 349.1  | 344.6 | 331.7 | 319.1 | 308.6 | 297.6 | 287.5 | 281.7 | 279.3 | 276.8 | 277.9 |
| 5°    | 354.0  | 343.2 | 317.2 | 294.8 | 272.8 | 254.1 | 239.1 | 229.5 | 224.8 | 224.1 | 223.0 |
| 7.5°  | 360.5  | 342.0 | 301.8 | 266.7 | 237.9 | 217.1 | 200.0 | 186.2 | 182.0 | 178.3 | 175.2 |
| 10°   | 368.5  | 339.9 | 282.6 | 237.2 | 206.6 | 180.4 | 157.9 | 141.5 | 133.1 | 130.8 | 132.4 |
| 12.5° | 376.9  | 336.0 | 262.5 | 210.1 | 174.8 | 141.3 | 120.5 | 112.3 | 110.0 | 109.0 | 109.3 |
| 15°   | 385.3  | 331.0 | 241.4 | 183.9 | 139.2 | 112.8 | 103.2 | 101.1 | 100.1 | 99.7  | 99.2  |
| 17.5° | 393.0  | 323.1 | 217.8 | 158.4 | 112.8 | 96.4  | 92.9  | 91.0  | 89.1  | 88.4  | 87.3  |
| 20°   | 402.2  | 314.0 | 196.5 | 129.8 | 95.5  | 87.3  | 83.1  | 79.5  | 76.7  | 74.9  | 74.6  |
| 22.5° | 410.8  | 302.3 | 174.3 | 107.6 | 87.0  | 78.4  | 71.6  | 67.8  | 64.6  | 62.2  | 62.9  |
| 25°   | 415.5  | 288.0 | 154.4 | 93.8  | 79.3  | 69.5  | 62.0  | 57.3  | 53.8  | 52.6  | 52.4  |
| 27.5° | 415.5  | 270.4 | 135.0 | 85.9  | 72.3  | 61.5  | 53.8  | 49.4  | 47.0  | 45.4  | 45.6  |
| 30°   | 412.2  | 251.0 | 117.0 | 79.8  | 66.2  | 54.5  | 47.3  | 43.3  | 41.4  | 40.2  | 40.0  |
| 32.5° | 409.6  | 232.5 | 101.5 | 73.9  | 59.9  | 48.4  | 42.1  | 39.1  | 37.2  | 36.0  | 36.0  |
| 35°   | 413.6  | 216.6 | 89.6  | 68.1  | 54.0  | 43.7  | 38.1  | 35.3  | 33.5  | 32.5  | 32.3  |
| 37.5° | 424.2  | 202.1 | 80.5  | 61.8  | 48.7  | 39.8  | 35.3  | 32.1  | 30.2  | 29.0  | 28.5  |
| 40°   | 450.1  | 193.9 | 73.7  | 55.9  | 43.5  | 36.5  | 32.1  | 29.0  | 26.7  | 25.5  | 25.3  |
| 42.5° | 491.8  | 194.2 | 67.1  | 50.5  | 39.5  | 33.7  | 29.2  | 25.7  | 23.2  | 22.0  | 21.8  |
| 45°   | 554.5  | 203.1 | 62.0  | 45.4  | 36.0  | 30.6  | 26.2  | 22.5  | 20.1  | 19.0  | 19.0  |
| 47.5° | 629.6  | 220.4 | 57.6  | 40.9  | 32.8  | 27.8  | 23.2  | 19.4  | 17.1  | 16.1  | 16.1  |
| 50°   | 711.0  | 242.8 | 53.1  | 36.3  | 29.9  | 24.8  | 19.9  | 16.8  | 15.0  | 14.3  | 14.3  |
| 52.5° | 794.0  | 270.0 | 48.7  | 32.5  | 26.9  | 21.5  | 17.1  | 15.0  | 13.3  | 12.9  | 12.6  |
| 55°   | 903.1  | 304.6 | 44.0  | 28.5  | 23.6  | 18.5  | 15.2  | 13.1  | 11.2  | 10.5  | 10.3  |
| 57.5° | 1070.8 | 356.8 | 38.8  | 25.0  | 19.4  | 15.4  | 13.1  | 11.0  | 8.9   | 7.7   | 7.5   |
| 60°   | 1273.2 | 420.4 | 33.5  | 22.0  | 15.7  | 12.6  | 10.5  | 8.4   | 6.6   | 5.1   | 4.9   |
| 62.5° | 1462.7 | 460.9 | 28.3  | 18.5  | 12.4  | 9.6   | 7.5   | 6.3   | 4.7   | 3.3   | 3.0   |
| 65°   | 1546.4 | 447.3 | 23.4  | 15.0  | 9.8   | 6.8   | 4.9   | 4.4   | 2.8   | 1.4   | 1.2   |
| 66°   | 1518.6 | 427.2 | 21.5  | 13.6  | 8.9   | 5.8   | 4.2   | 3.7   | 2.1   | 0.7   | 0.7   |
| 67.5° | 1436.5 | 379.7 | 18.7  | 11.7  | 7.7   | 4.7   | 3.3   | 2.8   | 1.2   | 0.2   | 0.0   |
| 70°   | 1230.8 | 307.2 | 14.7  | 8.7   | 5.6   | 3.3   | 1.9   | 1.4   | 0.7   | 0.0   | 0.0   |
| 72.5° | 945.4  | 228.8 | 11.7  | 6.6   | 4.0   | 1.9   | 0.9   | 0.5   | 0.7   | 0.0   | 0.0   |
| 75°   | 579.3  | 130.8 | 9.1   | 4.9   | 2.6   | 1.2   | 0.7   | 0.0   | 0.7   | 0.2   | 0.0   |
| 77.5° | 257.1  | 58.7  | 6.1   | 3.3   | 1.9   | 0.9   | 0.5   | 0.0   | 0.5   | 0.2   | 0.0   |
| 80°   | 65.0   | 19.2  | 3.5   | 2.3   | 1.4   | 0.7   | 0.2   | 0.0   | 0.5   | 0.5   | 0.2   |
| 82.5° | 17.8   | 7.0   | 2.6   | 1.9   | 1.2   | 0.7   | 0.2   | 0.0   | 0.5   | 0.5   | 0.5   |
| 85°   | 7.0    | 3.3   | 2.3   | 1.9   | 1.4   | 0.7   | 0.2   | 0.0   | 0.5   | 0.5   | 0.5   |
| 87.5° | 3.3    | 2.3   | 2.3   | 2.1   | 1.6   | 0.7   | 0.2   | 0.0   | 0.5   | 0.2   | 0.5   |
| 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)