

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: P323965

Luminaire Tested: **GAN-SA1C-827-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323965  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1C-827-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 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: 4419 lumens  
Efficiency: N/A  
Efficacy: 74.9 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

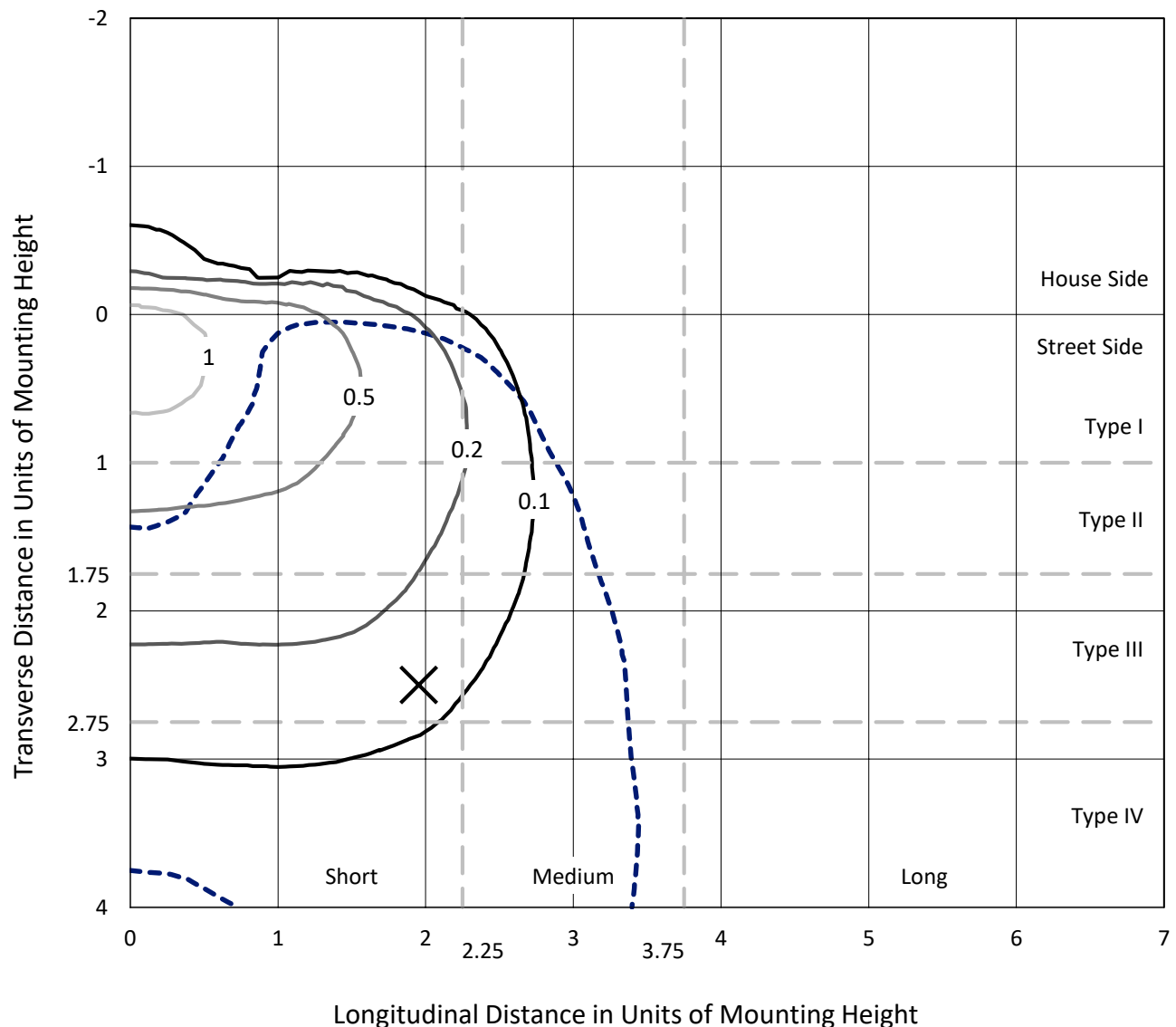
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

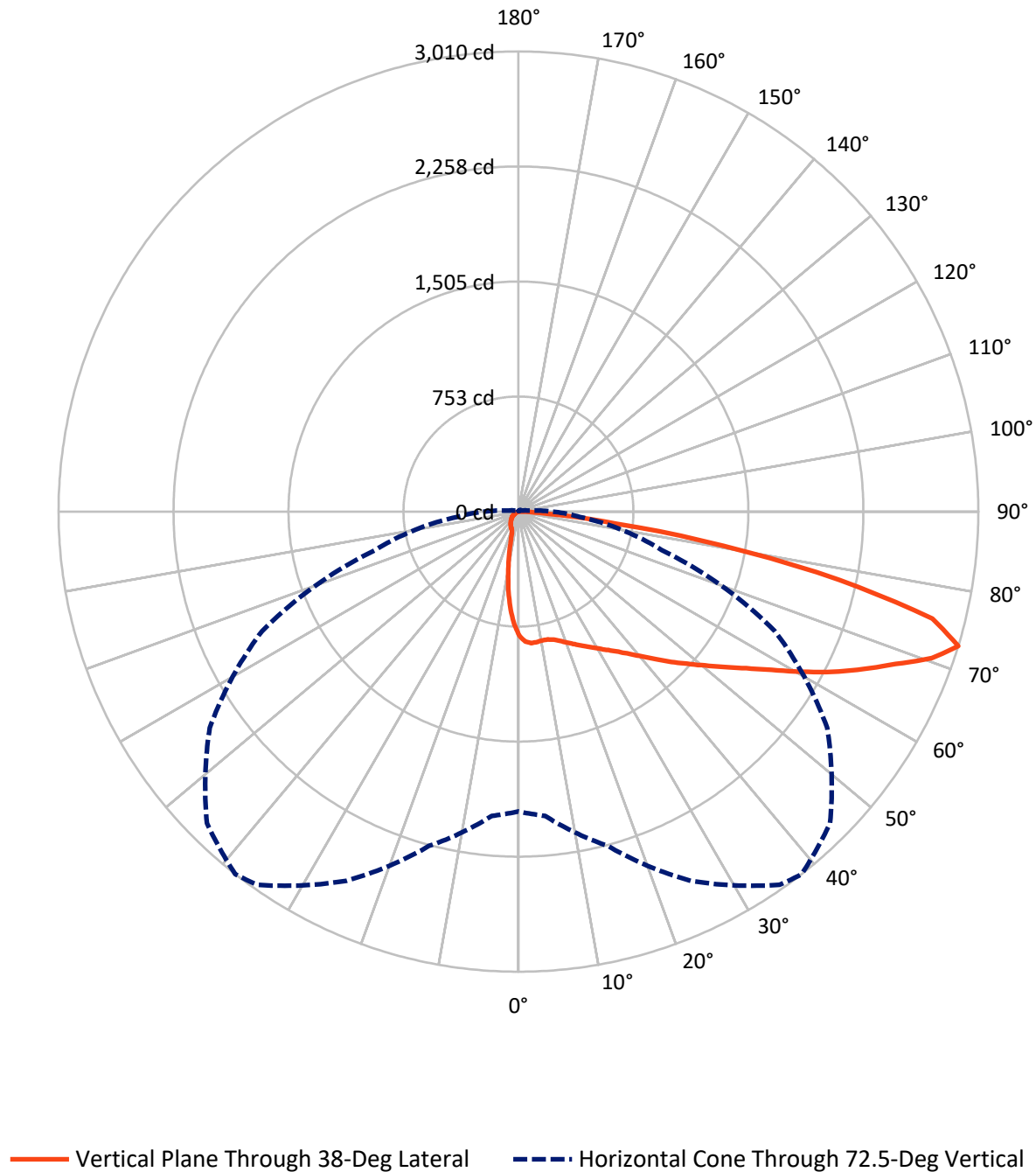
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 371.9    | 0.0    | 371.9  |
|                    | % Fixture | 8.4      | 0.0    | 8.4    |
| <b>Street Side</b> | Lumens    | 4047.1   | 0.0    | 4047.1 |
|                    | % Fixture | 91.6     | 0.0    | 91.6   |
| <b>Total</b>       | Lumens    | 4419.0   | 0.0    | 4419.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 69.3   | 1.6       |
| 10°-20°   | 169.3  | 3.8       |
| 20°-30°   | 269.3  | 6.1       |
| 30°-40°   | 404.9  | 9.2       |
| 40°-50°   | 617.7  | 14.0      |
| 50°-60°   | 873.0  | 19.8      |
| 60°-70°   | 1095.1 | 24.8      |
| 70°-80°   | 818.8  | 18.5      |
| 80°-90°   | 101.5  | 2.3       |
| 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°    | 4419.0 | 100.0     |
| 0°-180°   | 4419.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P323965

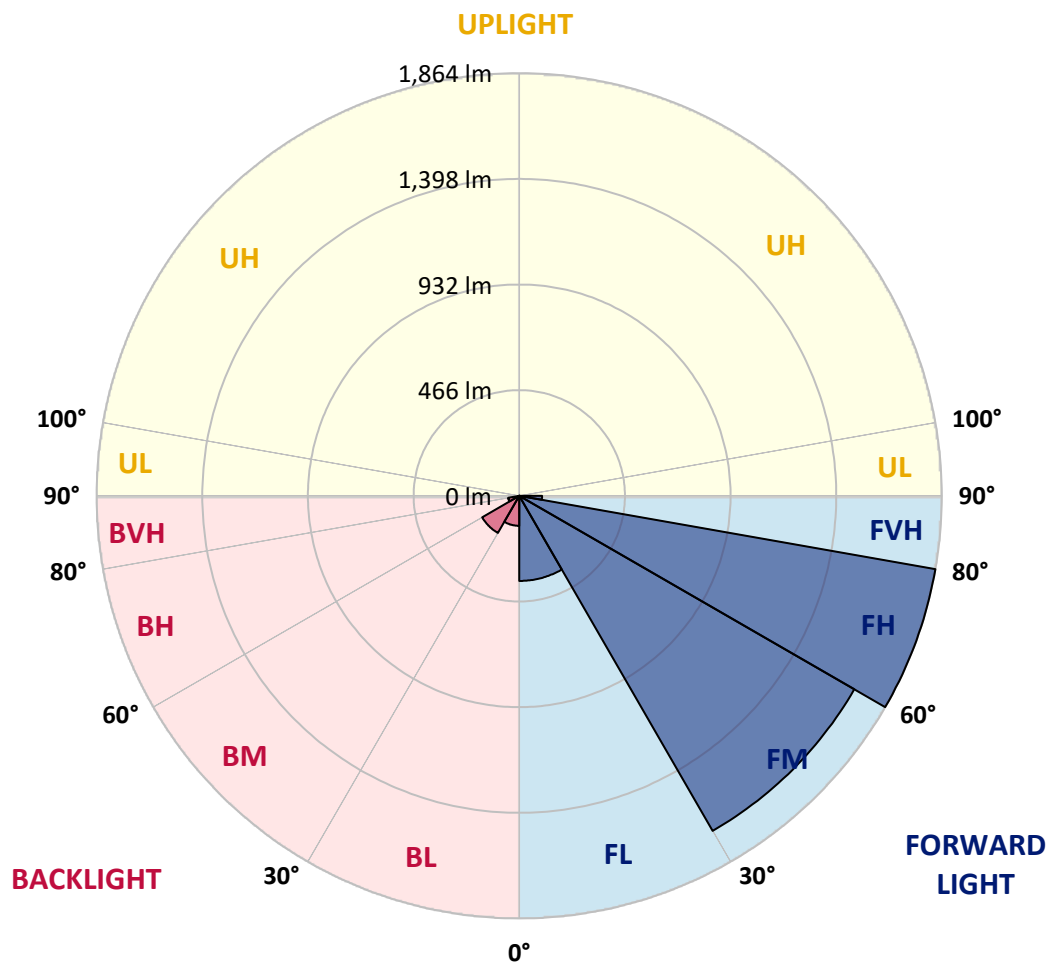
CATALOG NUMBER: GAN-SA1C-827-U-SL4-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 375.5  | 8.5       |                         |      |         |
| FM   | (30°-60°)   | 1706.8 | 38.6      |                         |      |         |
| FH   | (60°-80°)   | 1864.2 | 42.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 100.6  | 2.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 132.4  | 3.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 188.8  | 4.3       | B0/220                  |      |         |
| BH   | (60°-80°)   | 49.7   | 1.1       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.0    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short





REPORT NUMBER: P323965

CATALOG NUMBER: GAN-SA1C-827-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 38°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 812.6  | 812.6  | 812.6  | 812.6  | 812.6  | 812.6  | 812.6  | 812.6  | 812.6  | 812.6  | 812.6  |
| 2.5°  | 862.6  | 862.7  | 860.7  | 857.4  | 853.2  | 851.0  | 847.3  | 841.5  | 835.2  | 824.0  | 811.9  |
| 5°    | 880.2  | 880.2  | 877.6  | 873.2  | 866.4  | 864.4  | 857.4  | 848.1  | 835.2  | 817.0  | 796.7  |
| 7.5°  | 878.3  | 878.7  | 875.2  | 870.6  | 863.8  | 862.0  | 853.6  | 843.1  | 827.1  | 805.1  | 779.1  |
| 10°   | 868.8  | 869.7  | 867.0  | 864.8  | 858.5  | 856.5  | 848.6  | 838.1  | 822.2  | 798.7  | 768.8  |
| 12.5° | 859.1  | 860.0  | 860.9  | 862.9  | 859.1  | 858.3  | 852.1  | 843.3  | 828.1  | 803.6  | 769.9  |
| 15°   | 852.8  | 854.7  | 861.3  | 869.2  | 870.1  | 869.3  | 865.3  | 857.1  | 841.6  | 816.3  | 777.8  |
| 17.5° | 852.8  | 855.8  | 869.5  | 884.6  | 889.9  | 890.5  | 887.0  | 875.4  | 857.1  | 829.9  | 785.1  |
| 20°   | 860.0  | 864.0  | 885.5  | 906.8  | 915.6  | 915.6  | 908.8  | 892.7  | 871.2  | 842.2  | 790.1  |
| 22.5° | 878.3  | 883.7  | 910.6  | 935.2  | 944.6  | 942.6  | 933.4  | 909.9  | 885.9  | 856.1  | 796.3  |
| 25°   | 914.5  | 918.5  | 946.6  | 971.4  | 977.1  | 972.5  | 960.9  | 930.8  | 904.6  | 875.0  | 807.7  |
| 27.5° | 961.1  | 961.7  | 990.7  | 1011.6 | 1008.1 | 1005.0 | 990.5  | 957.1  | 931.6  | 902.0  | 827.3  |
| 30°   | 1012.3 | 1012.3 | 1037.8 | 1053.8 | 1043.1 | 1040.6 | 1026.1 | 988.8  | 966.1  | 938.7  | 855.2  |
| 32.5° | 1061.9 | 1064.1 | 1084.8 | 1094.9 | 1083.0 | 1080.4 | 1066.3 | 1029.0 | 1011.9 | 994.7  | 898.7  |
| 35°   | 1109.8 | 1111.4 | 1131.1 | 1136.6 | 1125.2 | 1125.9 | 1115.8 | 1084.3 | 1077.8 | 1075.6 | 964.2  |
| 37.5° | 1156.2 | 1156.6 | 1176.6 | 1180.1 | 1174.4 | 1180.6 | 1181.5 | 1153.6 | 1165.6 | 1183.4 | 1056.5 |
| 40°   | 1198.6 | 1199.0 | 1218.8 | 1227.8 | 1237.5 | 1245.6 | 1252.7 | 1237.9 | 1277.3 | 1318.6 | 1166.5 |
| 42.5° | 1232.5 | 1236.4 | 1261.5 | 1278.6 | 1304.3 | 1319.7 | 1339.2 | 1338.4 | 1410.4 | 1472.4 | 1299.3 |
| 45°   | 1262.5 | 1269.1 | 1304.1 | 1334.0 | 1378.1 | 1402.7 | 1433.1 | 1457.0 | 1560.1 | 1643.6 | 1433.9 |
| 47.5° | 1301.9 | 1308.2 | 1348.2 | 1397.2 | 1455.9 | 1488.2 | 1538.7 | 1590.2 | 1724.7 | 1811.7 | 1565.3 |
| 50°   | 1357.5 | 1354.8 | 1394.2 | 1464.5 | 1539.9 | 1582.3 | 1654.3 | 1731.5 | 1888.1 | 1958.2 | 1642.5 |
| 52.5° | 1416.8 | 1415.7 | 1444.9 | 1537.7 | 1639.0 | 1688.6 | 1783.7 | 1877.6 | 2044.3 | 2059.1 | 1678.0 |
| 55°   | 1490.2 | 1482.3 | 1506.9 | 1621.2 | 1756.7 | 1809.9 | 1921.9 | 2022.2 | 2168.7 | 2116.0 | 1695.8 |
| 57.5° | 1567.1 | 1554.1 | 1577.6 | 1714.3 | 1889.4 | 1952.3 | 2074.9 | 2163.2 | 2251.5 | 2154.9 | 1695.6 |
| 60°   | 1646.6 | 1631.2 | 1659.0 | 1830.6 | 2054.2 | 2127.0 | 2240.8 | 2258.4 | 2328.7 | 2174.6 | 1683.1 |
| 62.5° | 1713.0 | 1703.8 | 1745.3 | 1955.1 | 2238.2 | 2309.8 | 2366.2 | 2345.1 | 2393.9 | 2189.8 | 1653.9 |
| 65°   | 1783.3 | 1783.8 | 1850.8 | 2100.2 | 2433.9 | 2482.1 | 2486.9 | 2457.4 | 2448.4 | 2186.7 | 1555.2 |
| 67.5° | 1878.4 | 1887.2 | 1998.9 | 2297.3 | 2624.2 | 2661.4 | 2661.1 | 2579.0 | 2488.2 | 2062.6 | 1336.2 |
| 70°   | 1978.9 | 1999.7 | 2169.6 | 2522.9 | 2831.9 | 2869.7 | 2850.3 | 2656.5 | 2342.9 | 1667.9 | 945.7  |
| 72.5° | 1962.0 | 1998.0 | 2264.5 | 2665.1 | 2981.1 | 3010.0 | 2883.5 | 2466.2 | 1851.7 | 969.4  | 402.6  |
| 75°   | 1513.7 | 1555.4 | 2076.4 | 2524.2 | 2824.6 | 2798.7 | 2477.6 | 1919.1 | 1011.9 | 270.5  | 90.7   |
| 77.5° | 799.6  | 821.8  | 1371.7 | 1923.0 | 2202.5 | 2148.3 | 1745.3 | 1064.6 | 308.5  | 67.0   | 40.7   |
| 80°   | 418.8  | 423.9  | 597.7  | 1091.0 | 1359.4 | 1359.7 | 1034.3 | 467.6  | 127.2  | 34.3   | 27.3   |
| 82.5° | 224.3  | 228.7  | 315.8  | 504.1  | 712.3  | 645.6  | 396.0  | 257.3  | 74.0   | 19.5   | 26.2   |
| 85°   | 54.0   | 54.9   | 179.1  | 230.3  | 280.1  | 200.0  | 117.6  | 216.0  | 20.0   | 11.4   | 21.3   |
| 87.5° | 20.7   | 21.1   | 66.4   | 99.7   | 71.4   | 46.2   | 55.1   | 80.6   | 2.6    | 4.4    | 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    |



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CATALOG NUMBER: GAN-SA1C-827-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 812.6  | 812.6 | 812.6 | 812.6 | 812.6 | 812.6 | 812.6 | 812.6 | 812.6 | 812.6 | 812.6 |
| 2.5°  | 804.6  | 799.8 | 788.0 | 773.2 | 760.0 | 750.4 | 736.1 | 726.8 | 720.5 | 720.3 | 717.9 |
| 5°    | 784.2  | 774.5 | 749.1 | 719.0 | 691.7 | 667.1 | 638.1 | 615.2 | 598.1 | 595.3 | 589.5 |
| 7.5°  | 762.4  | 746.4 | 707.5 | 660.5 | 614.6 | 568.0 | 513.9 | 480.3 | 451.5 | 437.7 | 436.2 |
| 10°   | 749.0  | 726.6 | 671.3 | 603.4 | 531.5 | 455.7 | 384.8 | 335.8 | 300.4 | 290.3 | 282.8 |
| 12.5° | 746.2  | 716.7 | 643.4 | 549.8 | 447.1 | 346.9 | 268.5 | 216.4 | 188.1 | 179.1 | 176.7 |
| 15°   | 749.0  | 712.1 | 619.9 | 496.8 | 361.5 | 246.1 | 180.2 | 149.9 | 139.3 | 136.7 | 136.5 |
| 17.5° | 750.6  | 706.6 | 593.3 | 437.9 | 278.6 | 175.8 | 138.0 | 129.2 | 127.5 | 127.4 | 127.7 |
| 20°   | 750.4  | 698.1 | 561.6 | 372.2 | 207.2 | 138.2 | 124.8 | 123.0 | 122.6 | 122.8 | 122.6 |
| 22.5° | 749.1  | 688.2 | 526.7 | 304.5 | 156.5 | 123.5 | 119.1 | 118.0 | 117.8 | 117.8 | 117.8 |
| 25°   | 751.5  | 680.3 | 488.4 | 239.7 | 129.0 | 116.7 | 114.0 | 113.1 | 112.9 | 112.9 | 112.5 |
| 27.5° | 760.2  | 675.9 | 446.3 | 184.4 | 116.5 | 110.7 | 108.5 | 108.3 | 107.7 | 107.5 | 107.9 |
| 30°   | 774.1  | 675.9 | 400.3 | 143.5 | 109.0 | 104.4 | 102.8 | 102.4 | 102.2 | 102.0 | 102.2 |
| 32.5° | 798.7  | 681.1 | 350.0 | 119.3 | 101.9 | 97.5  | 96.3  | 96.9  | 96.3  | 96.3  | 96.3  |
| 35°   | 843.1  | 696.5 | 297.3 | 104.1 | 94.3  | 90.7  | 89.6  | 90.3  | 89.9  | 89.9  | 89.7  |
| 37.5° | 907.9  | 725.1 | 244.3 | 94.9  | 87.7  | 83.9  | 82.4  | 83.5  | 83.1  | 83.1  | 83.0  |
| 40°   | 986.8  | 766.8 | 193.8 | 87.9  | 81.3  | 77.3  | 76.0  | 76.5  | 75.6  | 75.6  | 76.0  |
| 42.5° | 1084.3 | 819.6 | 149.8 | 81.1  | 74.9  | 71.0  | 70.3  | 69.7  | 68.1  | 67.2  | 67.4  |
| 45°   | 1192.5 | 874.7 | 116.7 | 74.5  | 68.8  | 65.7  | 64.6  | 63.1  | 60.4  | 58.5  | 58.7  |
| 47.5° | 1289.2 | 917.1 | 94.9  | 68.1  | 63.3  | 60.9  | 59.3  | 56.5  | 52.5  | 50.3  | 50.5  |
| 50°   | 1340.1 | 923.5 | 80.8  | 61.7  | 58.2  | 55.8  | 53.4  | 49.2  | 44.4  | 42.0  | 41.8  |
| 52.5° | 1353.1 | 893.4 | 70.3  | 55.8  | 53.0  | 50.3  | 47.2  | 41.5  | 36.2  | 33.6  | 33.2  |
| 55°   | 1357.9 | 847.5 | 60.9  | 50.3  | 47.5  | 44.4  | 40.4  | 34.0  | 29.0  | 26.4  | 26.2  |
| 57.5° | 1342.1 | 779.1 | 53.6  | 45.3  | 42.0  | 38.2  | 33.2  | 27.2  | 22.4  | 20.4  | 20.4  |
| 60°   | 1307.1 | 686.4 | 47.9  | 40.0  | 36.3  | 31.9  | 26.8  | 21.1  | 16.7  | 15.0  | 15.0  |
| 62.5° | 1237.1 | 566.4 | 42.6  | 34.5  | 31.0  | 26.4  | 21.7  | 16.0  | 11.7  | 10.8  | 11.0  |
| 65°   | 1105.2 | 429.6 | 37.3  | 29.5  | 26.4  | 21.8  | 16.9  | 11.4  | 7.9   | 7.9   | 8.3   |
| 67.5° | 901.3  | 298.4 | 31.7  | 25.1  | 22.8  | 17.8  | 12.8  | 7.9   | 5.5   | 6.2   | 7.0   |
| 70°   | 596.6  | 167.4 | 27.2  | 20.7  | 19.5  | 14.1  | 9.5   | 5.3   | 4.4   | 5.9   | 7.2   |
| 72.5° | 225.2  | 65.2  | 22.8  | 16.7  | 16.9  | 10.8  | 6.8   | 4.0   | 4.0   | 6.4   | 8.4   |
| 75°   | 62.8   | 31.9  | 16.3  | 12.3  | 13.2  | 7.9   | 5.0   | 3.5   | 3.9   | 7.3   | 9.9   |
| 77.5° | 36.9   | 23.5  | 10.6  | 7.2   | 9.0   | 5.5   | 3.3   | 2.8   | 3.3   | 6.2   | 9.5   |
| 80°   | 29.7   | 12.5  | 6.2   | 3.7   | 5.0   | 3.1   | 2.2   | 1.7   | 0.9   | 2.4   | 5.0   |
| 82.5° | 29.7   | 7.5   | 2.9   | 2.6   | 2.6   | 1.7   | 1.1   | 0.7   | 0.2   | 0.0   | 1.3   |
| 85°   | 20.0   | 3.1   | 1.8   | 1.7   | 1.3   | 0.6   | 0.4   | 0.2   | 0.0   | 0.0   | 0.0   |
| 87.5° | 3.3    | 1.3   | 0.7   | 0.4   | 0.2   | 0.0   | 0.0   | 0.0   | 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)