

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: P845946

Luminaire Tested: **GLAN-SB1B-830-U-T2**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P845946  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB1B-830-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4792 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

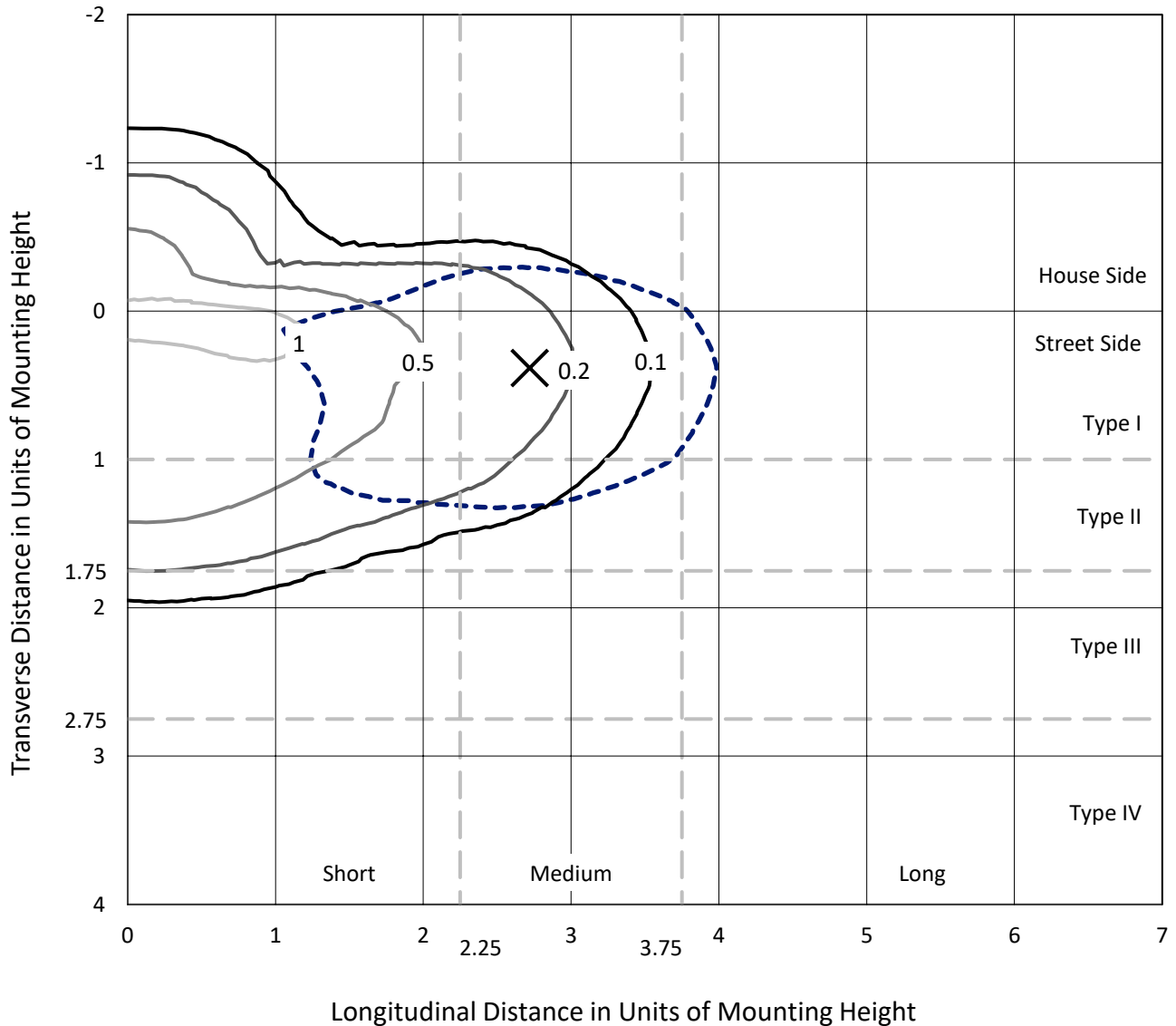
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

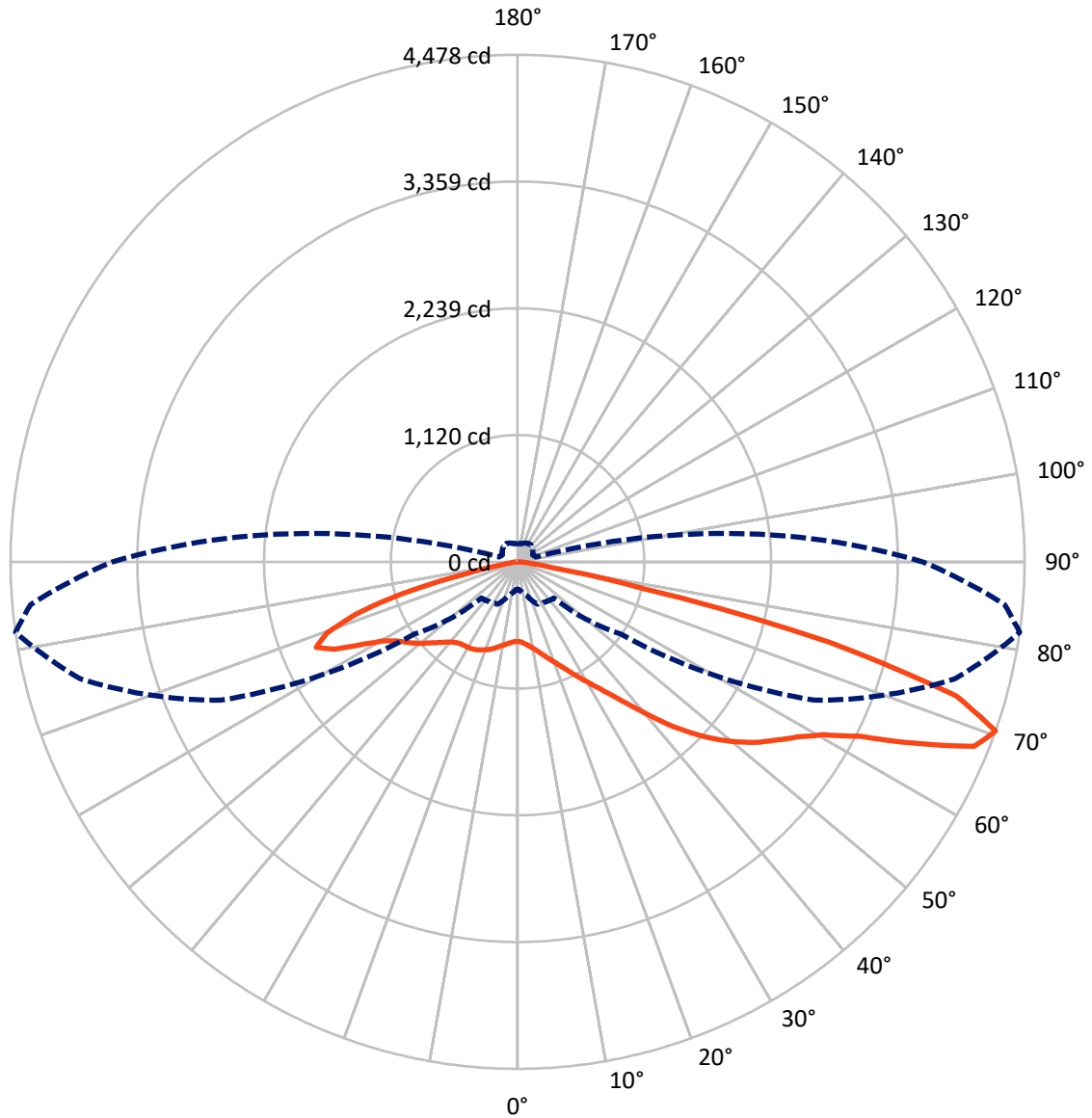
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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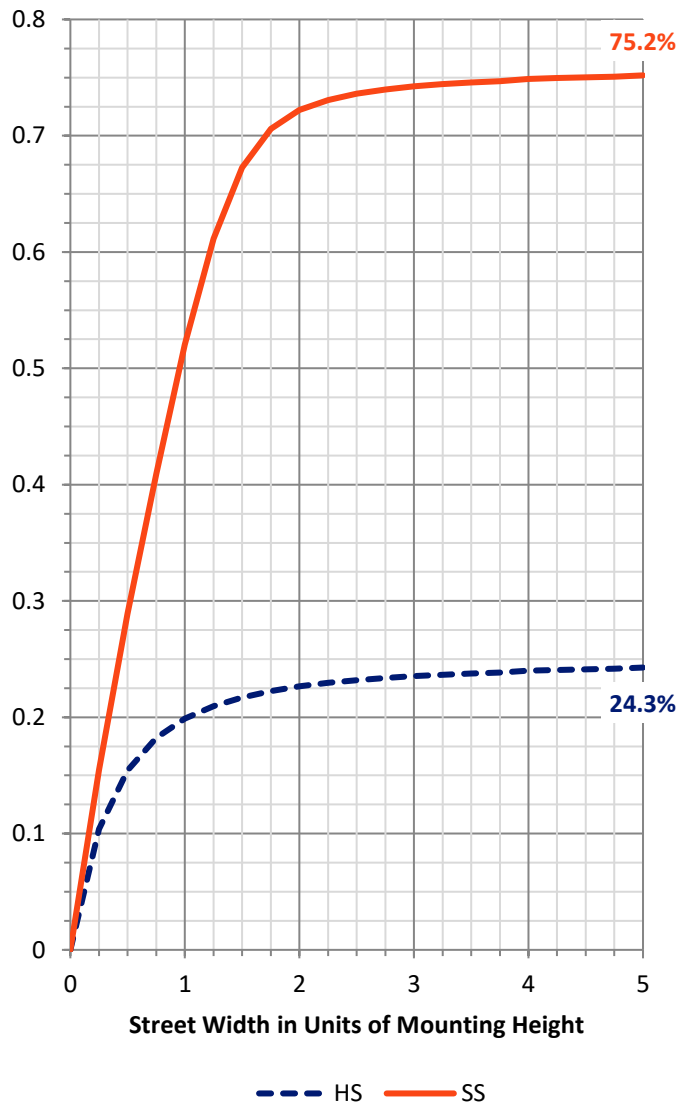
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1181.3   | 0.0    | 1181.3 |
|                    | % Fixture | 24.7     | 0.0    | 24.7   |
| <b>Street Side</b> | Lumens    | 3610.7   | 0.0    | 3610.7 |
|                    | % Fixture | 75.3     | 0.0    | 75.3   |
| <b>Total</b>       | Lumens    | 4792.0   | 0.0    | 4792.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 66.3   | 1.4       |
| 10°-20°   | 190.6  | 4.0       |
| 20°-30°   | 318.8  | 6.7       |
| 30°-40°   | 498.1  | 10.4      |
| 40°-50°   | 793.3  | 16.6      |
| 50°-60°   | 1103.9 | 23.0      |
| 60°-70°   | 1154.8 | 24.1      |
| 70°-80°   | 603.5  | 12.6      |
| 80°-90°   | 62.7   | 1.3       |
| 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°    | 4792.0 | 100.0     |
| 0°-180°   | 4792.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P845946

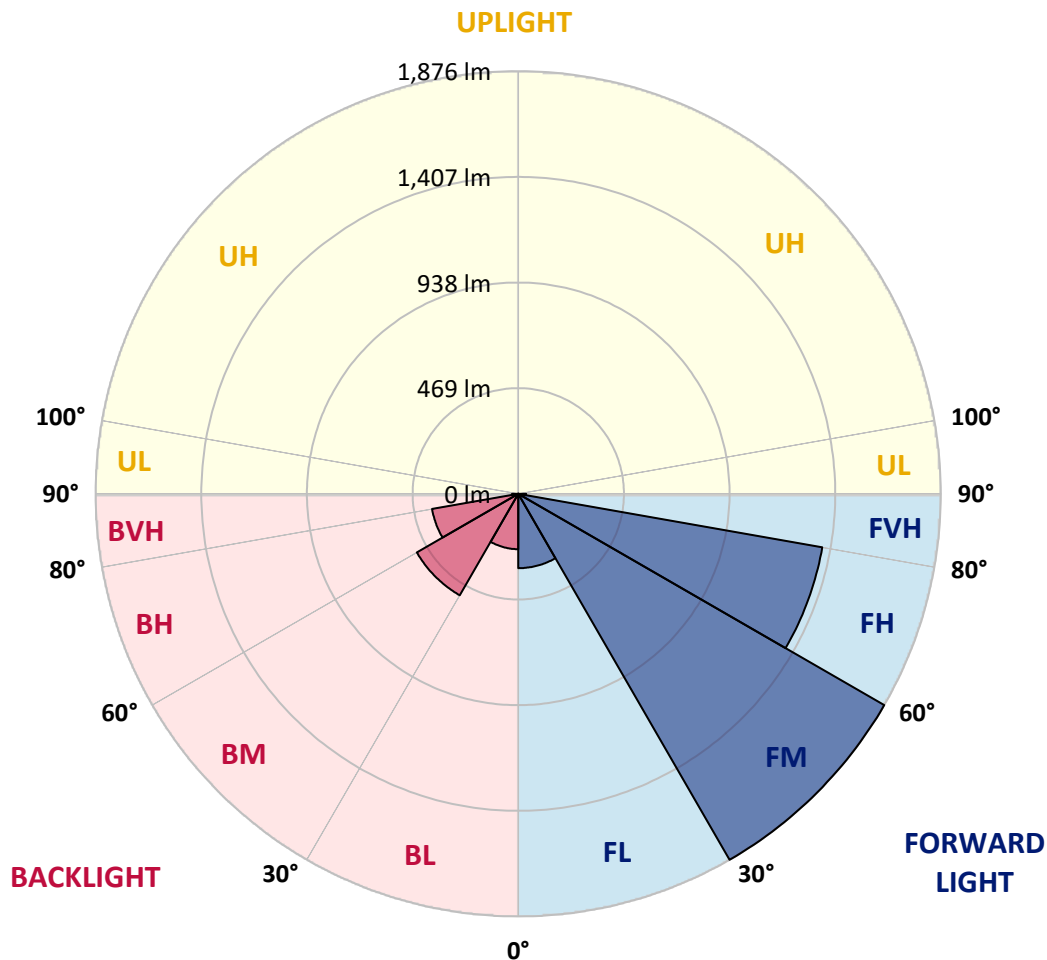
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 330.0  | 6.9       |                         |      |         |
| FM (30°-60°)   | 1875.5 | 39.1      |                         |      |         |
| FH (60°-80°)   | 1370.1 | 28.6      |                         |      | G1/1800 |
| FVH (80°-90°)  | 35.1   | 0.7       |                         |      | G1/100  |
| BL (0°-30°)    | 245.8  | 5.1       | B1/500                  |      |         |
| BM (30°-60°)   | 519.7  | 10.8      | B1/1000                 |      |         |
| BH (60°-80°)   | 388.2  | 8.1       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 27.6   | 0.6       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Medium



REPORT NUMBER: P845946  
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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 82°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 702.6  | 702.6  | 702.6  | 702.6  | 702.6  | 702.6  | 702.6  | 702.6  | 702.6  | 702.6  |
| 2.5°  | 719.3  | 723.4  | 722.1  | 720.9  | 720.9  | 719.1  | 718.8  | 716.3  | 714.3  | 711.0  |
| 5°    | 728.5  | 732.8  | 732.3  | 733.3  | 736.6  | 737.4  | 738.2  | 736.6  | 732.6  | 728.5  |
| 7.5°  | 720.4  | 725.2  | 726.7  | 732.8  | 743.0  | 752.2  | 759.0  | 761.8  | 758.0  | 752.2  |
| 10°   | 692.9  | 698.2  | 703.6  | 718.1  | 736.1  | 757.7  | 776.1  | 787.0  | 786.2  | 780.6  |
| 12.5° | 637.2  | 642.8  | 654.3  | 682.5  | 715.5  | 753.7  | 787.7  | 810.6  | 818.5  | 814.4  |
| 15°   | 592.7  | 597.6  | 606.2  | 635.2  | 678.2  | 736.1  | 792.1  | 836.6  | 856.7  | 854.4  |
| 17.5° | 591.4  | 593.5  | 598.8  | 612.6  | 645.6  | 708.7  | 787.5  | 862.0  | 900.4  | 900.1  |
| 20°   | 613.8  | 614.6  | 617.6  | 620.4  | 639.3  | 687.8  | 775.8  | 883.1  | 949.5  | 949.5  |
| 22.5° | 644.8  | 644.3  | 647.4  | 644.8  | 654.0  | 686.0  | 768.4  | 901.7  | 1004.1 | 1008.2 |
| 25°   | 691.4  | 688.8  | 688.1  | 682.2  | 684.0  | 702.6  | 776.6  | 922.8  | 1069.0 | 1077.4 |
| 27.5° | 753.4  | 749.4  | 746.6  | 733.1  | 728.5  | 736.6  | 801.5  | 948.2  | 1141.2 | 1155.7 |
| 30°   | 834.3  | 826.9  | 822.8  | 799.4  | 782.9  | 784.2  | 839.1  | 982.0  | 1216.7 | 1240.1 |
| 32.5° | 944.6  | 933.2  | 922.3  | 883.9  | 853.6  | 843.7  | 887.7  | 1028.8 | 1298.6 | 1336.0 |
| 35°   | 1068.2 | 1059.1 | 1047.4 | 988.1  | 941.6  | 918.7  | 953.3  | 1094.2 | 1394.5 | 1453.7 |
| 37.5° | 1187.2 | 1179.3 | 1184.9 | 1105.1 | 1045.1 | 1011.8 | 1039.2 | 1181.9 | 1512.7 | 1600.2 |
| 40°   | 1310.3 | 1304.2 | 1304.9 | 1228.7 | 1158.7 | 1121.4 | 1143.5 | 1292.0 | 1648.2 | 1774.3 |
| 42.5° | 1444.0 | 1439.5 | 1424.2 | 1356.6 | 1278.0 | 1243.2 | 1263.5 | 1419.1 | 1793.7 | 1972.7 |
| 45°   | 1593.8 | 1591.0 | 1576.8 | 1499.2 | 1409.2 | 1370.0 | 1397.5 | 1559.5 | 1939.9 | 2159.3 |
| 47.5° | 1723.2 | 1725.5 | 1723.7 | 1658.4 | 1565.1 | 1507.6 | 1540.4 | 1705.9 | 2075.9 | 2334.8 |
| 50°   | 1785.5 | 1797.5 | 1815.0 | 1794.7 | 1736.7 | 1678.2 | 1684.6 | 1847.3 | 2205.6 | 2499.3 |
| 52.5° | 1753.0 | 1775.6 | 1823.4 | 1856.0 | 1878.3 | 1866.1 | 1849.1 | 1987.7 | 2327.7 | 2647.8 |
| 55°   | 1631.7 | 1663.5 | 1742.8 | 1821.4 | 1935.6 | 2024.3 | 2046.7 | 2143.3 | 2446.7 | 2778.5 |
| 57.5° | 1410.7 | 1462.3 | 1533.5 | 1692.5 | 1884.7 | 2100.8 | 2277.0 | 2359.2 | 2572.8 | 2918.1 |
| 60°   | 1031.9 | 1101.0 | 1189.5 | 1426.0 | 1706.7 | 2059.9 | 2473.1 | 2690.8 | 2752.0 | 3098.9 |
| 62.5° | 660.4  | 703.1  | 784.4  | 1007.2 | 1329.9 | 1850.1 | 2533.1 | 3105.2 | 3055.9 | 3395.4 |
| 65°   | 452.1  | 479.6  | 554.1  | 679.2  | 859.7  | 1377.2 | 2372.4 | 3416.0 | 3538.5 | 3865.3 |
| 67.5° | 328.5  | 349.4  | 412.9  | 522.5  | 560.2  | 815.0  | 1841.0 | 3401.7 | 4007.7 | 4349.4 |
| 70°   | 239.5  | 254.3  | 307.7  | 412.9  | 431.0  | 453.4  | 1115.3 | 2891.6 | 3997.5 | 4478.1 |
| 72.5° | 177.5  | 187.7  | 223.5  | 320.4  | 348.9  | 306.1  | 552.0  | 2101.6 | 3435.0 | 4050.4 |
| 75°   | 128.4  | 136.0  | 162.5  | 245.1  | 279.2  | 233.2  | 275.4  | 1228.2 | 2396.1 | 2849.2 |
| 77.5° | 98.2   | 104.0  | 121.3  | 179.5  | 223.5  | 174.9  | 170.9  | 565.0  | 1136.1 | 1141.7 |
| 80°   | 78.8   | 82.6   | 92.0   | 126.4  | 171.4  | 131.0  | 111.4  | 228.1  | 359.0  | 303.9  |
| 82.5° | 58.0   | 64.3   | 77.8   | 88.7   | 122.6  | 90.3   | 67.9   | 115.2  | 136.5  | 117.5  |
| 85°   | 33.1   | 37.4   | 47.0   | 63.6   | 78.3   | 55.2   | 38.9   | 51.1   | 63.6   | 52.1   |
| 87.5° | 11.7   | 15.3   | 16.5   | 24.9   | 34.1   | 22.9   | 15.0   | 14.7   | 20.9   | 15.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P845946  
 CATALOG NUMBER: GLAN-SB1B-830-U-T2

**CANDELA DISTRIBUTION (continued):**

| 85°    |       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 702.6  | 0°    | 702.6  | 702.6  | 702.6 | 702.6 | 702.6 | 702.6 | 702.6 | 702.6 | 702.6 | 702.6 |
| 710.2  | 2.5°  | 707.7  | 706.4  | 701.3 | 694.4 | 687.3 | 680.4 | 678.2 | 673.3 | 670.0 | 668.2 |
| 726.7  | 5°    | 721.9  | 717.8  | 705.9 | 690.6 | 674.6 | 657.3 | 645.1 | 633.9 | 625.8 | 618.1 |
| 749.4  | 7.5°  | 742.2  | 735.1  | 714.5 | 687.8 | 659.3 | 630.6 | 609.2 | 593.0 | 582.0 | 574.9 |
| 775.8  | 10°   | 765.9  | 754.9  | 723.4 | 683.5 | 639.5 | 598.3 | 573.1 | 559.2 | 552.3 | 548.5 |
| 806.1  | 12.5° | 793.1  | 777.6  | 732.6 | 673.6 | 609.2 | 562.2 | 544.9 | 540.8 | 541.1 | 541.4 |
| 844.2  | 15°   | 826.7  | 805.0  | 739.9 | 652.0 | 569.8 | 534.5 | 531.4 | 538.0 | 544.9 | 548.2 |
| 887.4  | 17.5° | 864.5  | 834.0  | 741.2 | 616.4 | 531.2 | 516.7 | 526.4 | 540.6 | 551.0 | 555.6 |
| 935.7  | 20°   | 905.2  | 863.5  | 732.1 | 566.0 | 499.4 | 502.2 | 519.5 | 537.8 | 549.2 | 555.1 |
| 990.9  | 22.5° | 951.8  | 895.1  | 710.2 | 513.1 | 473.5 | 486.4 | 506.8 | 524.6 | 536.5 | 542.4 |
| 1055.8 | 25°   | 1004.9 | 930.4  | 675.9 | 468.6 | 451.1 | 468.6 | 489.0 | 503.7 | 513.4 | 518.7 |
| 1128.2 | 27.5° | 1063.9 | 967.3  | 630.1 | 433.3 | 431.5 | 450.3 | 467.1 | 478.5 | 483.6 | 487.7 |
| 1205.3 | 30°   | 1123.1 | 1000.8 | 574.7 | 406.6 | 414.5 | 432.3 | 444.2 | 449.3 | 450.8 | 451.6 |
| 1291.2 | 32.5° | 1187.2 | 1029.8 | 516.4 | 384.5 | 398.2 | 414.7 | 421.8 | 424.1 | 417.0 | 412.2 |
| 1395.5 | 35°   | 1264.8 | 1060.8 | 459.5 | 366.9 | 382.2 | 396.4 | 398.7 | 396.7 | 388.3 | 378.4 |
| 1526.2 | 37.5° | 1360.6 | 1099.5 | 414.0 | 354.5 | 367.2 | 376.6 | 373.8 | 373.3 | 374.0 | 362.3 |
| 1683.3 | 40°   | 1478.1 | 1149.8 | 380.7 | 344.8 | 355.0 | 357.0 | 349.1 | 353.4 | 357.3 | 339.5 |
| 1855.7 | 42.5° | 1608.6 | 1210.6 | 359.5 | 338.2 | 344.8 | 340.0 | 327.8 | 332.6 | 332.1 | 308.7 |
| 2028.9 | 45°   | 1741.5 | 1276.7 | 352.2 | 333.4 | 335.4 | 325.7 | 312.3 | 313.5 | 302.8 | 281.7 |
| 2194.9 | 47.5° | 1873.8 | 1347.7 | 356.8 | 329.3 | 323.7 | 312.8 | 302.3 | 296.7 | 281.0 | 265.2 |
| 2354.1 | 50°   | 2003.4 | 1422.2 | 373.5 | 321.2 | 307.7 | 301.3 | 293.7 | 283.8 | 267.0 | 253.5 |
| 2504.6 | 52.5° | 2123.7 | 1497.2 | 392.3 | 307.7 | 287.6 | 291.4 | 286.6 | 275.1 | 258.6 | 244.9 |
| 2647.0 | 55°   | 2237.6 | 1572.2 | 399.7 | 289.1 | 268.8 | 282.8 | 280.0 | 258.9 | 239.0 | 227.8 |
| 2796.0 | 57.5° | 2361.7 | 1662.5 | 391.6 | 265.5 | 253.5 | 272.8 | 262.2 | 238.8 | 227.3 | 218.9 |
| 2990.0 | 60°   | 2533.6 | 1804.1 | 374.0 | 236.2 | 239.0 | 258.1 | 239.8 | 230.1 | 217.7 | 208.3 |
| 3280.9 | 62.5° | 2819.2 | 2068.3 | 345.8 | 207.2 | 222.0 | 236.2 | 229.1 | 219.4 | 206.7 | 197.6 |
| 3778.3 | 65°   | 3241.3 | 2435.5 | 292.7 | 184.6 | 202.9 | 214.9 | 217.7 | 208.0 | 194.8 | 185.1 |
| 4214.1 | 67.5° | 3597.3 | 2665.8 | 221.5 | 165.8 | 183.3 | 197.6 | 205.5 | 196.0 | 182.1 | 172.7 |
| 4316.1 | 70°   | 3577.7 | 2498.5 | 169.1 | 147.2 | 166.0 | 180.5 | 190.7 | 183.3 | 168.3 | 159.4 |
| 3920.4 | 72.5° | 3177.7 | 2090.2 | 136.8 | 128.4 | 148.5 | 162.7 | 174.9 | 169.3 | 154.1 | 145.4 |
| 2872.1 | 75°   | 2334.5 | 1483.7 | 109.3 | 109.3 | 126.6 | 144.2 | 157.7 | 154.1 | 140.1 | 134.0 |
| 1205.8 | 77.5° | 984.1  | 622.5  | 85.7  | 90.8  | 105.3 | 123.8 | 140.6 | 141.9 | 129.7 | 137.3 |
| 318.9  | 80°   | 261.7  | 171.6  | 65.3  | 71.5  | 82.6  | 102.2 | 122.3 | 121.8 | 108.6 | 101.5 |
| 118.5  | 82.5° | 99.7   | 67.6   | 46.5  | 50.3  | 59.8  | 78.3  | 96.9  | 99.9  | 86.7  | 75.0  |
| 46.5   | 85°   | 38.4   | 29.0   | 28.7  | 30.3  | 34.8  | 51.9  | 73.2  | 75.8  | 65.3  | 55.4  |
| 13.0   | 87.5° | 9.9    | 8.6    | 10.7  | 10.2  | 16.0  | 27.7  | 42.0  | 43.5  | 39.9  | 23.1  |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END O



|       |
|-------|
| 180°  |
| <hr/> |
| 702.6 |
| 670.3 |
| 621.2 |
| 576.4 |
| 549.5 |
| 541.9 |
| 548.0 |
| 556.6 |
| 556.6 |
| 543.9 |
| 520.3 |
| 489.2 |
| 453.4 |
| 413.7 |
| 378.9 |
| 363.1 |
| 340.0 |
| 308.4 |
| 282.5 |
| 265.2 |
| 252.5 |
| 245.1 |
| 226.8 |
| 218.2 |
| 207.7 |
| 197.6 |
| 185.6 |
| 172.9 |
| 160.2 |
| 145.4 |
| 132.2 |
| 124.6 |
| 94.3  |
| 75.0  |
| 57.2  |
| 33.1  |
| 0.0   |

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