

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: P946471

Luminaire Tested: **GLAN-SB2A-840-U-AFL**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P946471  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB2A-840-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

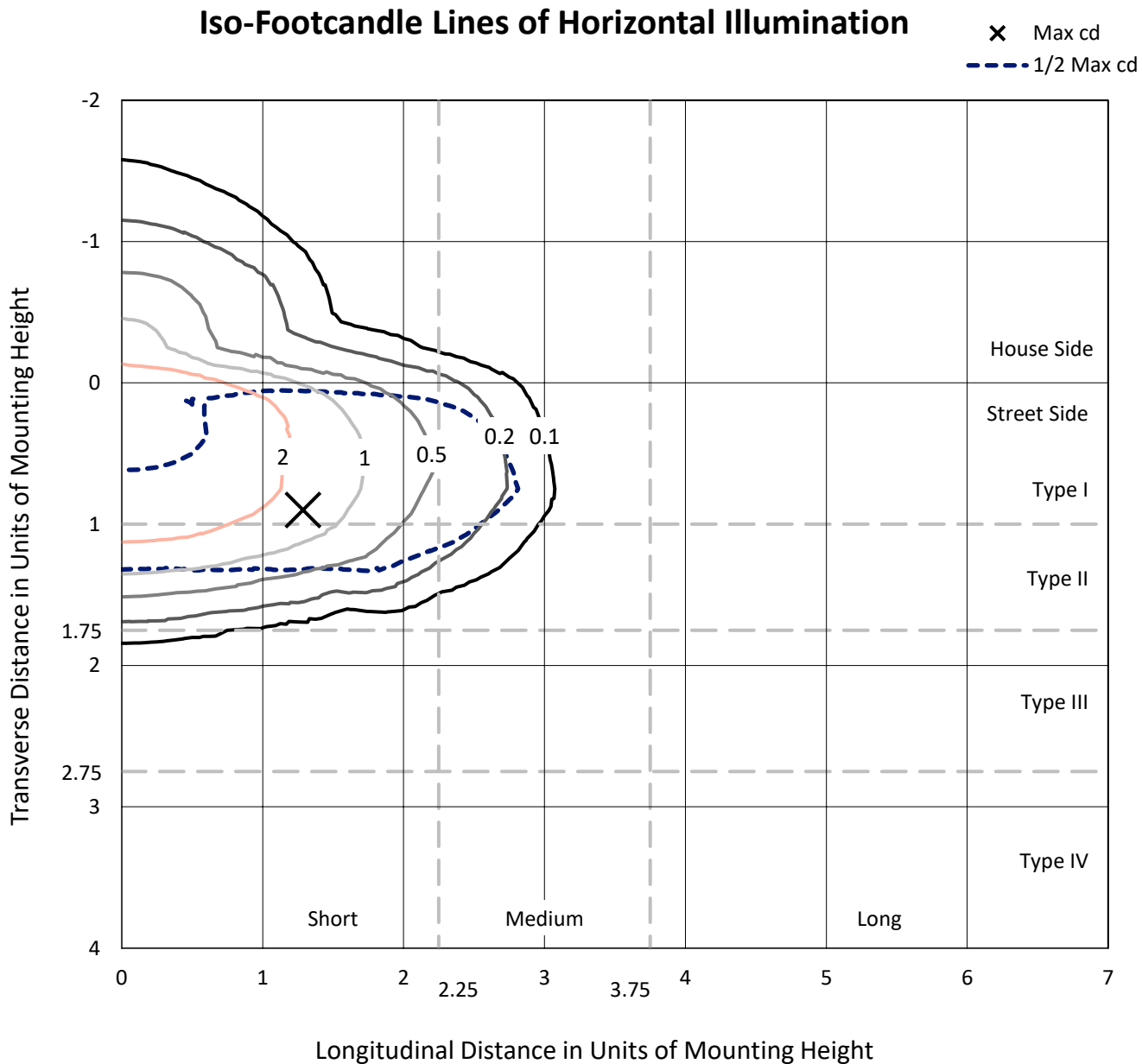
### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 8727 lumens  
Efficiency: N/A  
Efficacy: 152.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 57.3  
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



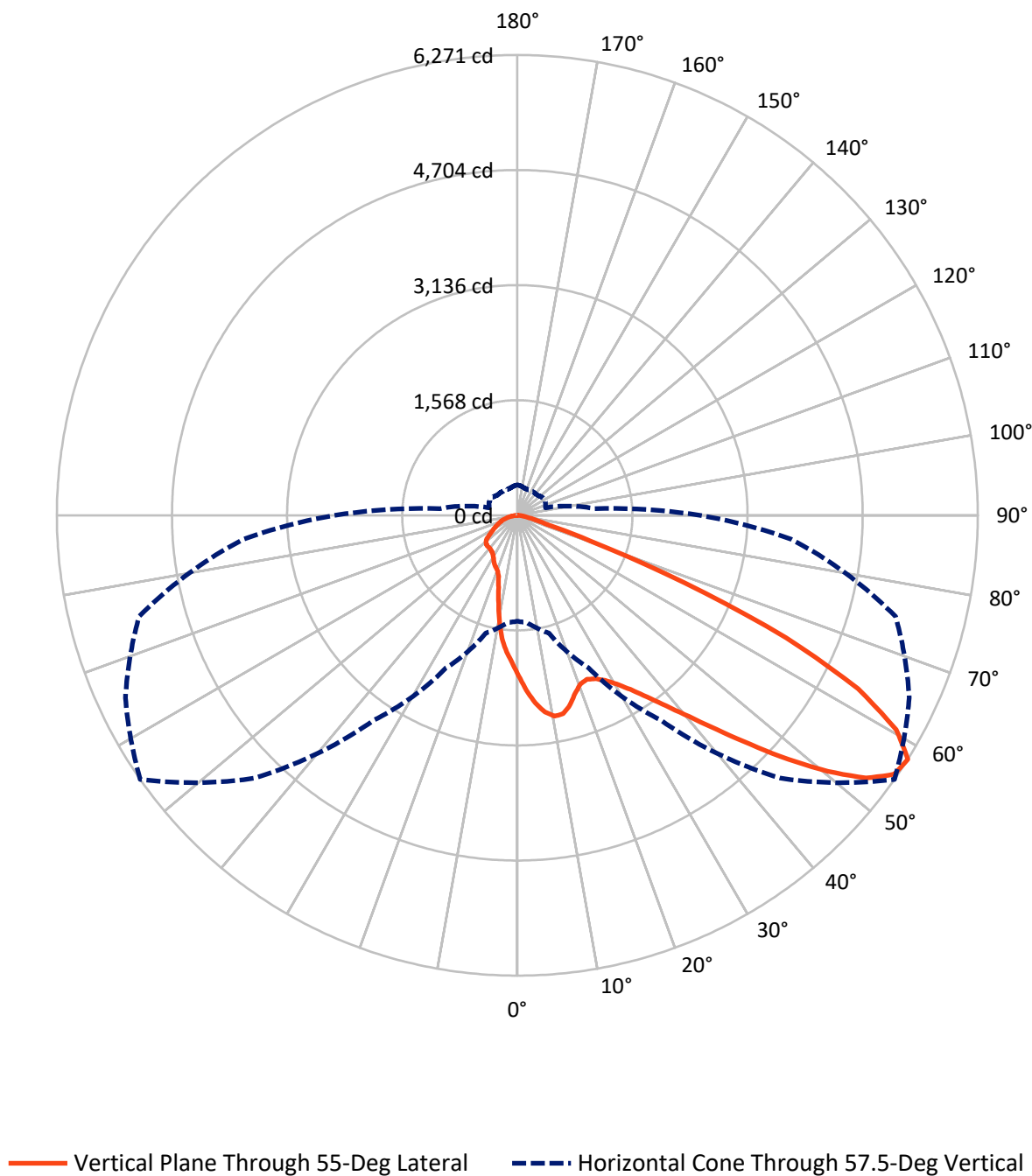
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CATALOG NUMBER: GLAN-SB2A-840-U-AFL



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
Type II - 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    | 1579.1   | 0.0    | 1579.1 |
|                    | % Fixture | 18.1     | 0.0    | 18.1   |
| <b>Street Side</b> | Lumens    | 7147.9   | 0.0    | 7147.9 |
|                    | % Fixture | 81.9     | 0.0    | 81.9   |
| <b>Total</b>       | Lumens    | 8727.0   | 0.0    | 8727.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 202.9  | 2.3       |
| 10°-20°   | 512.2  | 5.9       |
| 20°-30°   | 817.3  | 9.4       |
| 30°-40°   | 1293.9 | 14.8      |
| 40°-50°   | 1980.5 | 22.7      |
| 50°-60°   | 2121.3 | 24.3      |
| 60°-70°   | 1334.5 | 15.3      |
| 70°-80°   | 394.6  | 4.5       |
| 80°-90°   | 69.8   | 0.8       |
| 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°    | 8727.0 | 100.0     |
| 0°-180°   | 8727.0 | 100.0     |

**Coefficient of Utilization**



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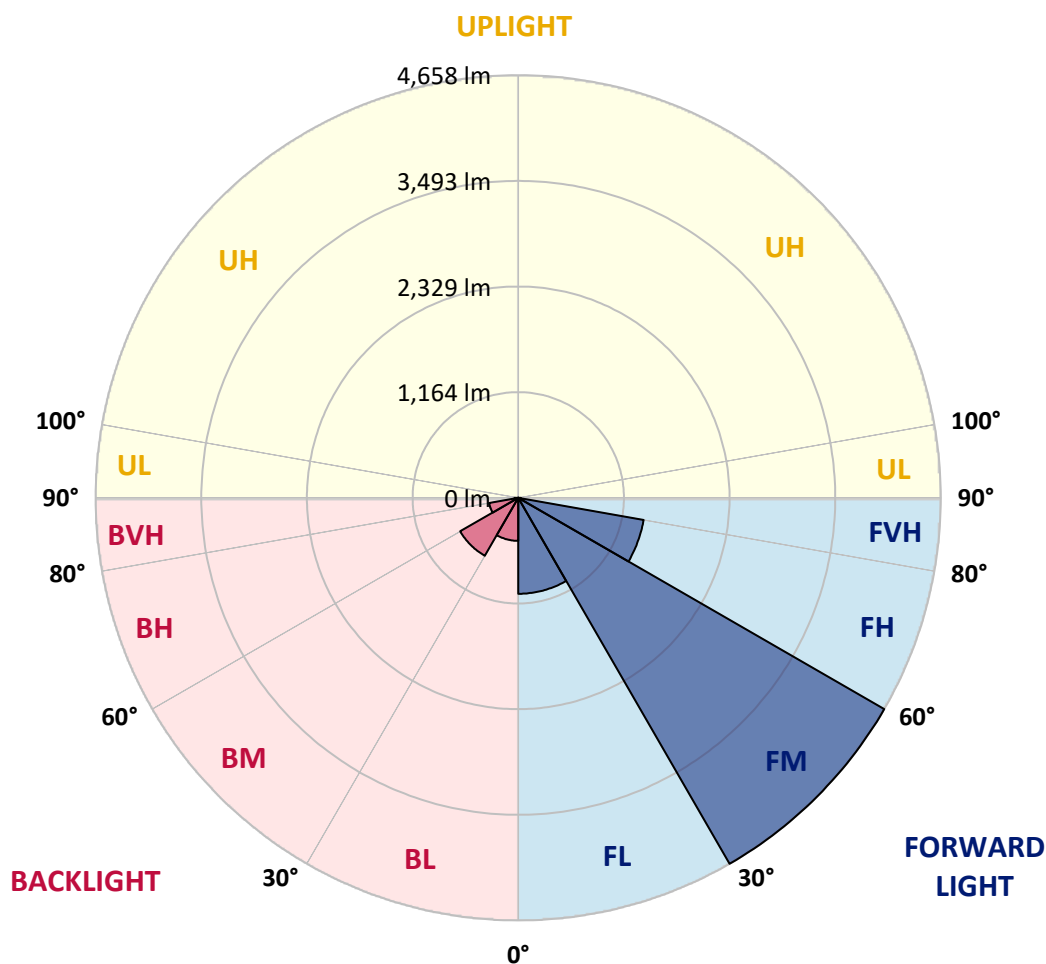
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1057.7 | 12.1      |                         |      |         |
| FM   | (30°-60°)   | 4657.7 | 53.4      |                         |      |         |
| FH   | (60°-80°)   | 1403.0 | 16.1      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 29.5   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 474.6  | 5.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 738.1  | 8.5       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 326.1  | 3.7       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 40.3   | 0.5       |                         |      | 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 Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2186.7 | 2186.7 | 2186.7 | 2186.7 | 2186.7 | 2186.7 | 2186.7 | 2186.7 | 2186.7 | 2186.7 |
| 2.5°  | 2508.8 | 2507.0 | 2516.9 | 2483.1 | 2460.1 | 2429.0 | 2387.9 | 2335.6 | 2279.2 | 2219.6 |
| 5°    | 2734.8 | 2719.1 | 2729.4 | 2704.2 | 2678.9 | 2632.0 | 2571.1 | 2485.8 | 2381.6 | 2262.9 |
| 7.5°  | 2699.2 | 2688.4 | 2715.0 | 2737.6 | 2756.5 | 2750.6 | 2706.0 | 2616.6 | 2482.2 | 2309.9 |
| 10°   | 2411.8 | 2399.6 | 2437.1 | 2515.1 | 2629.7 | 2729.4 | 2783.6 | 2728.1 | 2585.1 | 2361.3 |
| 12.5° | 2158.3 | 2152.4 | 2177.2 | 2240.4 | 2367.6 | 2558.9 | 2773.6 | 2825.5 | 2692.0 | 2422.2 |
| 15°   | 2050.0 | 2042.8 | 2058.6 | 2090.6 | 2171.8 | 2350.0 | 2683.4 | 2892.3 | 2797.1 | 2492.6 |
| 17.5° | 2026.1 | 2018.0 | 2024.7 | 2041.4 | 2093.8 | 2229.6 | 2547.2 | 2925.2 | 2906.7 | 2571.1 |
| 20°   | 2070.3 | 2063.5 | 2064.4 | 2063.5 | 2100.1 | 2207.9 | 2452.4 | 2912.6 | 3002.4 | 2643.3 |
| 22.5° | 2177.2 | 2166.0 | 2166.4 | 2142.5 | 2162.3 | 2245.8 | 2427.6 | 2878.8 | 3087.6 | 2706.4 |
| 25°   | 2351.4 | 2331.1 | 2335.1 | 2274.2 | 2268.8 | 2330.6 | 2466.4 | 2852.6 | 3172.5 | 2757.0 |
| 27.5° | 2589.6 | 2566.6 | 2554.4 | 2463.7 | 2420.4 | 2451.1 | 2545.4 | 2861.6 | 3252.8 | 2800.7 |
| 30°   | 2887.3 | 2859.4 | 2834.5 | 2706.0 | 2627.5 | 2616.2 | 2668.1 | 2921.2 | 3347.5 | 2846.7 |
| 32.5° | 3252.3 | 3219.8 | 3174.7 | 3004.2 | 2893.6 | 2834.5 | 2826.9 | 3027.2 | 3458.5 | 2905.4 |
| 35°   | 3686.8 | 3644.4 | 3580.3 | 3359.7 | 3219.8 | 3098.9 | 3036.2 | 3180.1 | 3610.5 | 2993.8 |
| 37.5° | 4134.3 | 4086.5 | 4027.8 | 3765.3 | 3593.4 | 3415.2 | 3291.6 | 3387.7 | 3813.1 | 3113.8 |
| 40°   | 4547.1 | 4493.4 | 4438.8 | 4205.1 | 4020.6 | 3805.9 | 3604.2 | 3650.2 | 4060.8 | 3257.3 |
| 42.5° | 4790.7 | 4751.0 | 4730.3 | 4603.9 | 4461.4 | 4243.5 | 3993.1 | 3961.5 | 4339.1 | 3422.4 |
| 45°   | 4779.9 | 4763.6 | 4827.7 | 4880.0 | 4846.2 | 4725.3 | 4448.7 | 4305.7 | 4618.4 | 3565.4 |
| 47.5° | 4524.5 | 4535.4 | 4678.4 | 4972.5 | 5102.0 | 5165.2 | 4967.6 | 4643.6 | 4861.1 | 3672.3 |
| 50°   | 3829.8 | 3838.8 | 4169.9 | 4804.2 | 5167.9 | 5523.8 | 5482.3 | 4973.4 | 5049.2 | 3737.7 |
| 52.5° | 3279.8 | 3285.7 | 3427.8 | 4305.3 | 4950.4 | 5704.3 | 5946.1 | 5284.3 | 5186.8 | 3755.8 |
| 55°   | 2470.5 | 2490.8 | 2650.0 | 3377.7 | 4384.7 | 5561.3 | 6228.5 | 5604.6 | 5273.9 | 3757.6 |
| 57.5° | 1443.2 | 1465.3 | 1662.0 | 2292.7 | 3408.0 | 5062.8 | 6271.4 | 5888.8 | 5333.0 | 3743.2 |
| 60°   | 706.9  | 716.4  | 802.1  | 1205.0 | 2101.4 | 4102.3 | 5926.7 | 6026.4 | 5365.9 | 3735.5 |
| 62.5° | 476.4  | 475.1  | 478.7  | 594.6  | 1035.4 | 2635.6 | 5208.5 | 5785.5 | 5348.3 | 3706.2 |
| 65°   | 409.6  | 404.7  | 391.1  | 417.3  | 536.4  | 1205.5 | 4024.2 | 5066.4 | 5214.3 | 3632.6 |
| 67.5° | 354.1  | 354.6  | 355.1  | 346.9  | 383.0  | 556.3  | 2459.2 | 3990.8 | 4733.4 | 3284.3 |
| 70°   | 293.2  | 297.3  | 299.1  | 299.1  | 312.2  | 365.0  | 1049.8 | 2735.3 | 3733.7 | 2575.1 |
| 72.5° | 267.1  | 258.5  | 259.4  | 254.9  | 254.9  | 277.9  | 422.7  | 1550.6 | 2352.3 | 1448.6 |
| 75°   | 217.9  | 223.3  | 224.2  | 221.1  | 210.7  | 212.0  | 250.8  | 650.6  | 1006.5 | 600.9  |
| 77.5° | 188.1  | 188.1  | 189.9  | 187.7  | 179.6  | 158.8  | 167.4  | 252.2  | 342.4  | 246.3  |
| 80°   | 151.1  | 150.7  | 158.4  | 162.9  | 150.2  | 117.3  | 106.9  | 139.4  | 152.0  | 108.3  |
| 82.5° | 73.5   | 78.0   | 108.7  | 124.1  | 114.1  | 84.8   | 65.4   | 86.6   | 81.2   | 47.8   |
| 85°   | 42.9   | 40.6   | 48.7   | 69.0   | 65.4   | 46.9   | 31.6   | 45.1   | 42.4   | 24.4   |
| 87.5° | 13.5   | 12.6   | 9.9    | 23.5   | 18.9   | 13.1   | 8.6    | 13.1   | 11.7   | 5.4    |
| 90°   | 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: GLAN-SB2A-840-U-AFL

**CANDELA DISTRIBUTION (continued):**

| 90°    |       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2186.7 | 0°    | 2186.7 | 2186.7 | 2186.7 | 2186.7 | 2186.7 | 2186.7 | 2186.7 | 2186.7 | 2186.7 | 2186.7 |
| 2193.9 | 2.5°  | 2161.9 | 2108.7 | 2055.9 | 2007.6 | 1978.3 | 1959.3 | 1940.4 | 1919.2 | 1911.1 | 1898.9 |
| 2199.8 | 5°    | 2140.2 | 2037.4 | 1945.8 | 1866.8 | 1795.1 | 1738.7 | 1681.9 | 1635.9 | 1615.1 | 1629.1 |
| 2218.3 | 7.5°  | 2127.6 | 1978.7 | 1837.5 | 1692.7 | 1553.3 | 1441.9 | 1344.9 | 1276.7 | 1246.1 | 1253.7 |
| 2236.3 | 10°   | 2116.3 | 1912.4 | 1697.2 | 1468.5 | 1268.2 | 1130.1 | 1030.9 | 979.0  | 959.6  | 963.6  |
| 2260.7 | 12.5° | 2105.9 | 1838.0 | 1528.0 | 1227.1 | 1014.2 | 923.0  | 894.6  | 895.1  | 898.7  | 901.4  |
| 2299.5 | 15°   | 2104.1 | 1748.2 | 1339.0 | 1016.0 | 877.0  | 871.2  | 901.8  | 921.2  | 931.6  | 934.8  |
| 2332.0 | 17.5° | 2101.4 | 1640.8 | 1146.4 | 872.1  | 843.6  | 883.3  | 911.8  | 924.4  | 932.5  | 933.0  |
| 2363.6 | 20°   | 2090.6 | 1504.6 | 968.6  | 803.5  | 836.4  | 870.7  | 888.3  | 898.2  | 905.0  | 907.3  |
| 2387.5 | 22.5° | 2057.2 | 1353.0 | 830.1  | 772.8  | 807.6  | 835.1  | 855.8  | 867.1  | 871.2  | 873.9  |
| 2392.0 | 25°   | 1997.2 | 1183.4 | 734.5  | 743.5  | 767.4  | 802.1  | 818.8  | 821.1  | 819.7  | 823.8  |
| 2380.7 | 27.5° | 1918.7 | 1001.5 | 674.9  | 703.8  | 734.5  | 764.2  | 773.3  | 771.9  | 769.2  | 773.7  |
| 2361.3 | 30°   | 1824.0 | 838.2  | 637.0  | 659.1  | 701.1  | 728.1  | 736.3  | 733.1  | 727.7  | 732.7  |
| 2351.4 | 32.5° | 1723.8 | 704.7  | 605.9  | 628.0  | 673.6  | 700.2  | 708.3  | 705.1  | 701.1  | 705.1  |
| 2362.6 | 35°   | 1630.4 | 611.3  | 577.0  | 607.2  | 651.9  | 678.1  | 688.4  | 688.9  | 688.9  | 693.9  |
| 2392.4 | 37.5° | 1544.7 | 556.7  | 553.1  | 594.2  | 637.0  | 660.5  | 675.4  | 676.3  | 656.9  | 658.2  |
| 2443.0 | 40°   | 1465.3 | 533.7  | 542.3  | 585.6  | 622.6  | 645.1  | 646.0  | 595.5  | 559.9  | 559.0  |
| 2500.7 | 42.5° | 1400.4 | 529.2  | 545.4  | 584.7  | 612.2  | 613.1  | 549.5  | 510.2  | 500.3  | 500.8  |
| 2553.9 | 45°   | 1339.5 | 527.8  | 552.7  | 584.7  | 596.9  | 529.6  | 486.8  | 476.4  | 477.3  | 480.9  |
| 2577.8 | 47.5° | 1271.3 | 522.4  | 554.0  | 576.6  | 552.7  | 471.0  | 458.4  | 453.9  | 452.0  | 453.0  |
| 2572.4 | 50°   | 1196.9 | 503.0  | 536.9  | 560.3  | 476.9  | 445.7  | 429.9  | 428.6  | 430.8  | 432.2  |
| 2542.2 | 52.5° | 1118.4 | 471.4  | 507.5  | 531.0  | 442.1  | 423.6  | 406.0  | 409.2  | 419.1  | 422.3  |
| 2510.6 | 55°   | 1067.0 | 434.5  | 468.7  | 472.3  | 417.8  | 402.9  | 388.0  | 395.2  | 413.7  | 419.6  |
| 2491.7 | 57.5° | 1053.4 | 395.2  | 424.5  | 420.5  | 386.6  | 384.8  | 375.8  | 382.1  | 405.6  | 414.2  |
| 2490.8 | 60°   | 1049.4 | 360.0  | 381.2  | 378.1  | 356.4  | 365.0  | 362.7  | 365.9  | 374.0  | 376.7  |
| 2481.8 | 62.5° | 1017.8 | 332.0  | 342.4  | 337.9  | 329.3  | 344.2  | 349.6  | 342.9  | 349.2  | 352.3  |
| 2419.9 | 65°   | 937.5  | 309.5  | 304.5  | 301.4  | 305.0  | 318.5  | 329.3  | 315.8  | 321.7  | 330.7  |
| 2181.7 | 67.5° | 804.8  | 278.8  | 265.3  | 268.9  | 280.2  | 287.4  | 301.4  | 286.0  | 291.0  | 306.3  |
| 1757.2 | 70°   | 651.0  | 240.0  | 227.8  | 238.2  | 249.0  | 263.9  | 266.2  | 255.8  | 267.5  | 284.7  |
| 1072.4 | 72.5° | 460.6  | 200.8  | 192.2  | 213.4  | 217.0  | 236.4  | 231.4  | 226.5  | 242.7  | 248.6  |
| 530.1  | 75°   | 319.4  | 162.0  | 157.0  | 173.2  | 186.3  | 203.0  | 199.4  | 205.3  | 239.6  | 242.3  |
| 264.8  | 77.5° | 202.1  | 125.9  | 122.7  | 133.1  | 151.1  | 169.6  | 175.5  | 242.3  | 409.2  | 425.4  |
| 137.6  | 80°   | 117.3  | 93.8   | 90.2   | 98.3   | 114.1  | 131.3  | 169.2  | 297.3  | 269.8  | 266.6  |
| 61.8   | 82.5° | 65.4   | 64.5   | 60.0   | 62.3   | 76.2   | 94.7   | 239.1  | 209.3  | 170.1  | 175.5  |
| 24.8   | 85°   | 30.7   | 37.9   | 32.5   | 31.1   | 42.9   | 111.0  | 159.7  | 119.6  | 79.4   | 77.6   |
| 5.4    | 87.5° | 8.1    | 7.2    | 7.2    | 8.1    | 18.0   | 95.6   | 63.6   | 51.0   | 30.2   | 29.3   |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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