

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: P940654

Luminaire Tested: **GLAN-SB3D-827-U-T2-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P940654  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB3D-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 19387 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

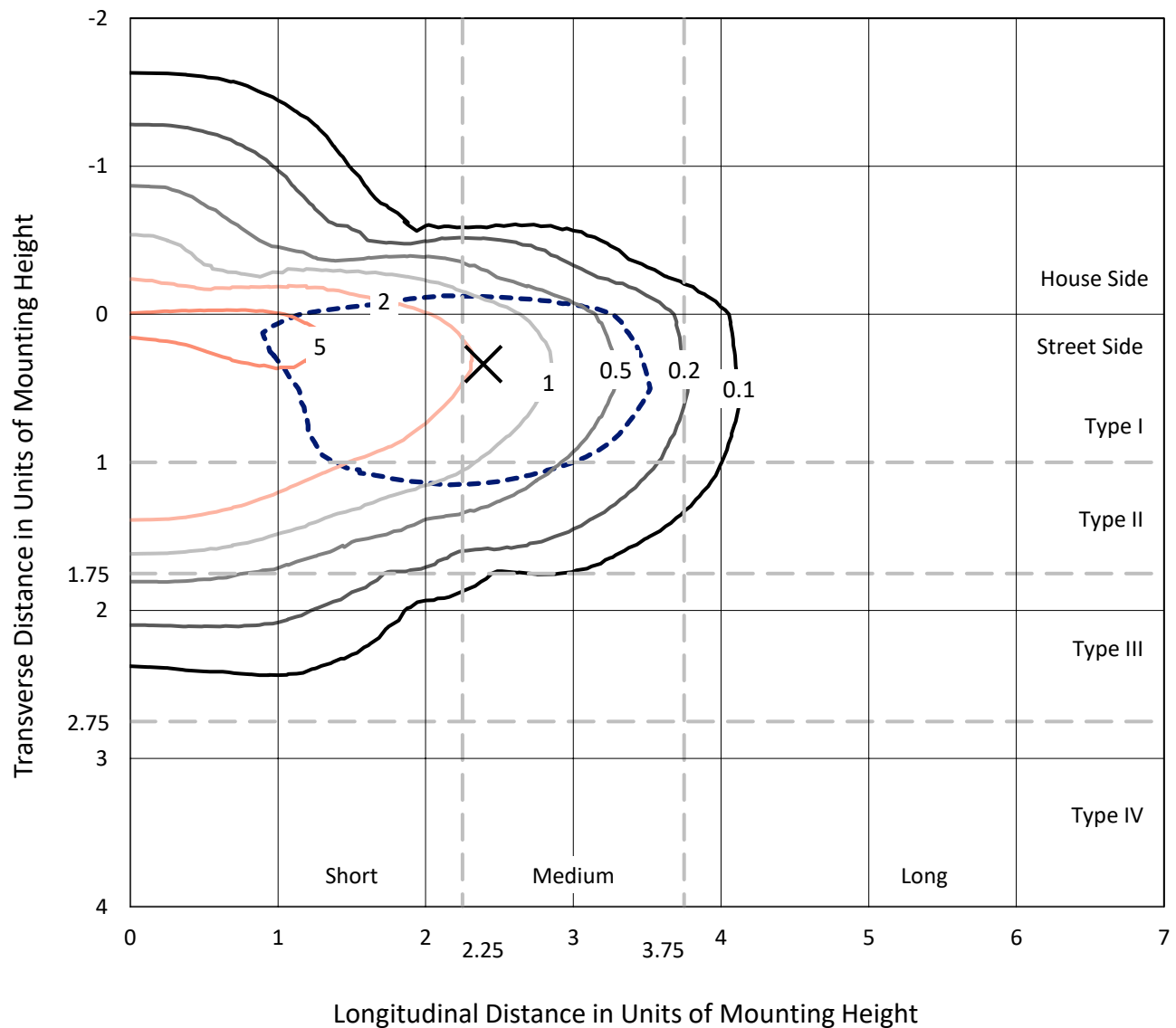
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

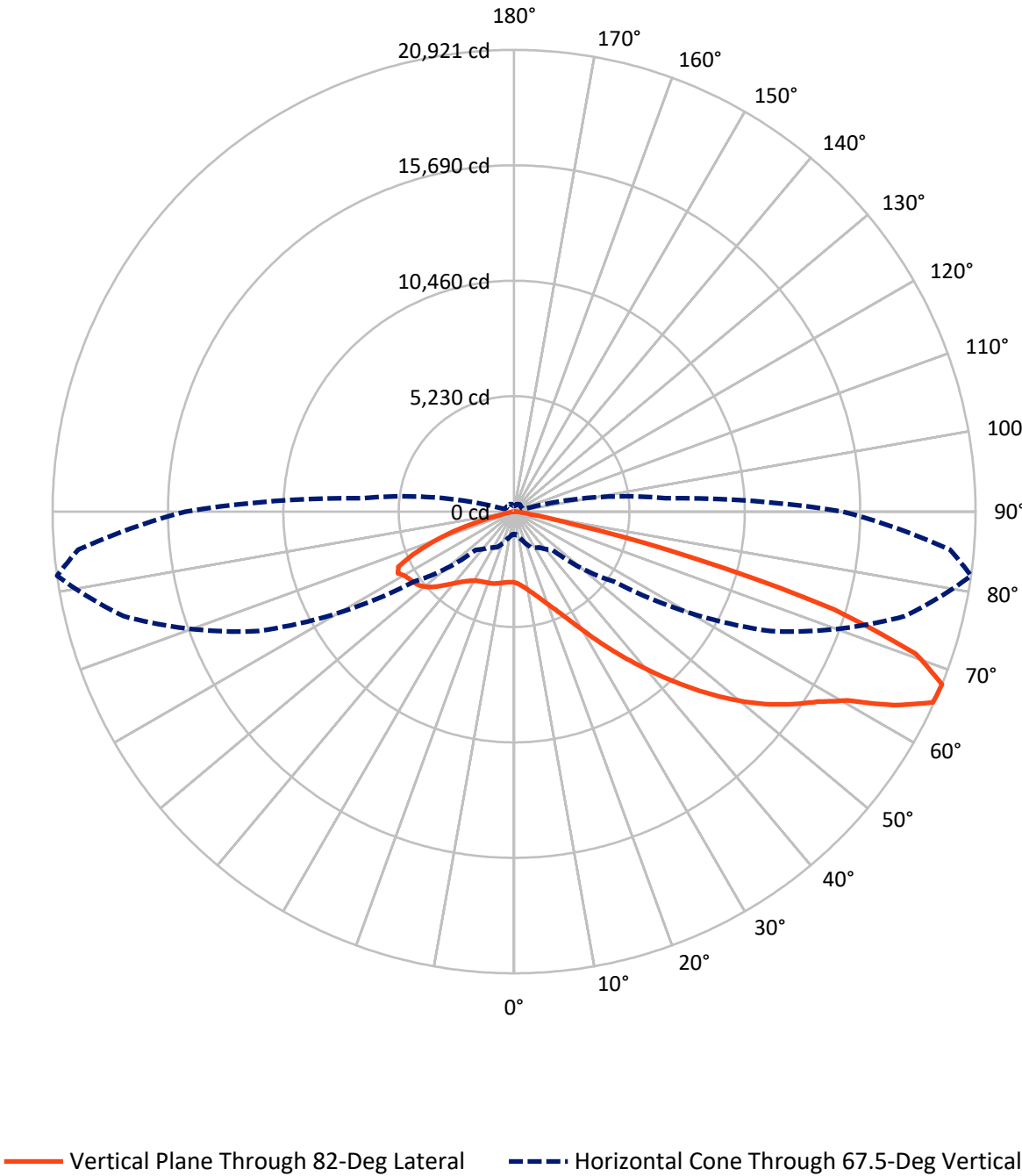
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
Type II - Medium - N/A

REPORT NUMBER: P940654  
CATALOG NUMBER: GLAN-SB3D-827-U-T2-HSS

Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3511.8   | 0.0    | 3511.8  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 15875.2  | 0.0    | 15875.2 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 19387.0  | 0.0    | 19387.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 286.1   | 1.5       |
| 10°-20°   | 743.6   | 3.8       |
| 20°-30°   | 1191.0  | 6.1       |
| 30°-40°   | 2106.0  | 10.9      |
| 40°-50°   | 3689.9  | 19.0      |
| 50°-60°   | 4921.3  | 25.4      |
| 60°-70°   | 4581.5  | 23.6      |
| 70°-80°   | 1758.4  | 9.1       |
| 80°-90°   | 109.2   | 0.6       |
| 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°    | 19387.0 | 100.0     |
| 0°-180°   | 19387.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P940654

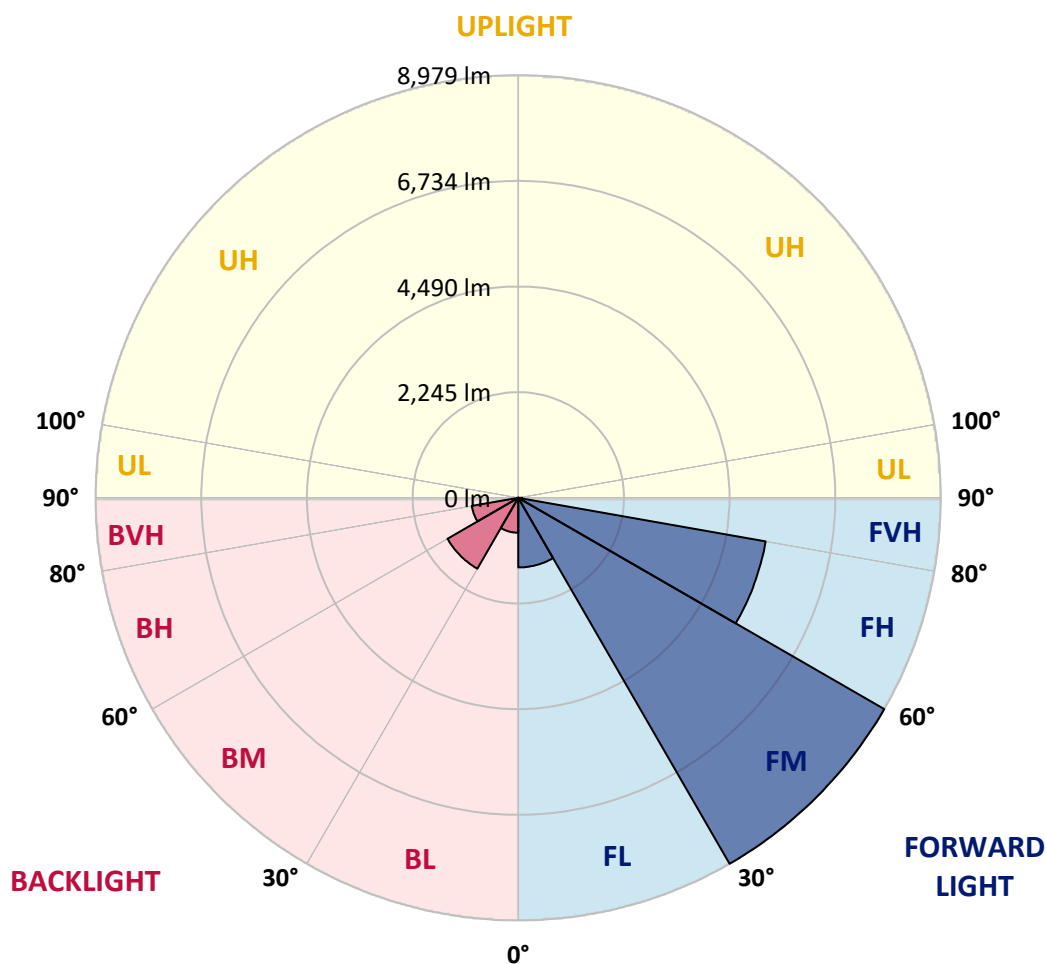
CATALOG NUMBER: GLAN-SB3D-827-U-T2-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1479.0 | 7.6       |                         |      |         |
| FM   | (30°-60°)   | 8979.3 | 46.3      |                         |      |         |
| FH   | (60°-80°)   | 5337.5 | 27.5      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 79.4   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 741.7  | 3.8       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1738.0 | 9.0       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1002.3 | 5.2       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 29.8   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Medium



REPORT NUMBER: P940654

CATALOG NUMBER: GLAN-SB3D-827-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 75°     | 82°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 3211.8 | 3211.8 | 3211.8 | 3211.8 | 3211.8 | 3211.8 | 3211.8  | 3211.8  | 3211.8  | 3211.8  |
| 2.5°  | 3394.6 | 3414.2 | 3403.0 | 3397.4 | 3387.6 | 3373.7 | 3362.5  | 3327.6  | 3291.3  | 3267.6  |
| 5°    | 3463.0 | 3482.6 | 3481.2 | 3486.7 | 3493.7 | 3497.9 | 3495.1  | 3456.0  | 3404.4  | 3363.9  |
| 7.5°  | 3404.4 | 3426.7 | 3444.9 | 3472.8 | 3521.6 | 3573.3 | 3598.4  | 3590.0  | 3537.0  | 3481.2  |
| 10°   | 3238.3 | 3262.0 | 3305.3 | 3370.9 | 3474.2 | 3585.8 | 3679.4  | 3722.6  | 3689.1  | 3627.7  |
| 12.5° | 2934.0 | 2957.7 | 3042.9 | 3185.2 | 3358.3 | 3552.3 | 3731.0  | 3846.9  | 3855.2  | 3793.8  |
| 15°   | 2592.0 | 2615.8 | 2706.5 | 2885.1 | 3149.0 | 3460.2 | 3758.9  | 3978.1  | 4052.1  | 3999.0  |
| 17.5° | 2379.9 | 2400.8 | 2469.2 | 2613.0 | 2887.9 | 3276.0 | 3749.2  | 4117.7  | 4286.5  | 4244.7  |
| 20°   | 2315.7 | 2333.8 | 2365.9 | 2466.4 | 2695.3 | 3084.8 | 3685.0  | 4248.9  | 4539.2  | 4515.5  |
| 22.5° | 2384.1 | 2400.8 | 2410.6 | 2455.2 | 2599.0 | 2959.1 | 3604.0  | 4382.9  | 4832.3  | 4835.1  |
| 25°   | 2541.8 | 2558.5 | 2547.4 | 2575.3 | 2638.1 | 2920.0 | 3573.3  | 4540.6  | 5200.8  | 5231.5  |
| 27.5° | 2801.4 | 2802.8 | 2776.3 | 2774.9 | 2784.7 | 2978.7 | 3605.4  | 4709.5  | 5665.6  | 5722.8  |
| 30°   | 3322.0 | 3301.1 | 3199.2 | 3088.9 | 3038.7 | 3154.5 | 3694.7  | 4909.1  | 6214.2  | 6316.1  |
| 32.5° | 4124.6 | 4093.9 | 3906.9 | 3643.1 | 3377.9 | 3437.9 | 3855.2  | 5136.6  | 6811.6  | 6995.8  |
| 35°   | 4995.6 | 4987.2 | 4791.8 | 4399.6 | 3936.2 | 3841.3 | 4116.3  | 5435.3  | 7463.4  | 7756.5  |
| 37.5° | 5805.2 | 5801.0 | 5689.3 | 5227.3 | 4663.4 | 4403.8 | 4535.0  | 5826.1  | 8161.3  | 8585.7  |
| 40°   | 6545.0 | 6557.5 | 6445.9 | 6032.7 | 5464.6 | 5125.4 | 5104.5  | 6309.1  | 8937.4  | 9488.7  |
| 42.5° | 7184.3 | 7198.2 | 7085.2 | 6779.5 | 6256.0 | 5923.8 | 5803.8  | 6900.9  | 9695.3  | 10458.8 |
| 45°   | 7618.4 | 7704.9 | 7688.1 | 7443.9 | 7068.4 | 6723.6 | 6644.1  | 7643.5  | 10559.3 | 11487.6 |
| 47.5° | 7741.2 | 7820.8 | 7946.4 | 7979.9 | 7751.0 | 7411.8 | 7506.7  | 8538.2  | 11433.1 | 12517.7 |
| 50°   | 7438.3 | 7512.3 | 7773.3 | 8120.9 | 8280.0 | 8175.3 | 8345.6  | 9497.1  | 12327.8 | 13545.0 |
| 52.5° | 6840.9 | 6916.3 | 7245.7 | 7795.6 | 8444.7 | 8774.1 | 9187.3  | 10442.1 | 13194.6 | 14517.9 |
| 55°   | 5976.9 | 6056.4 | 6479.4 | 7101.9 | 8130.6 | 9021.2 | 9889.3  | 11385.7 | 13988.9 | 15393.0 |
| 57.5° | 4801.6 | 4860.2 | 5299.9 | 6170.9 | 7340.6 | 8775.5 | 10407.2 | 12415.8 | 14737.0 | 16252.9 |
| 60°   | 3129.4 | 3181.1 | 3691.9 | 4663.4 | 6031.3 | 7954.7 | 10510.5 | 13564.5 | 15730.8 | 17370.9 |
| 62.5° | 2081.2 | 2116.1 | 2418.9 | 3132.2 | 4247.5 | 6378.9 | 9906.1  | 14481.6 | 17188.1 | 19316.7 |
| 65°   | 1427.9 | 1462.8 | 1765.7 | 2262.6 | 2744.2 | 4219.5 | 8168.3  | 14360.1 | 18508.5 | 20861.8 |
| 67.5° | 1018.9 | 1048.3 | 1305.1 | 1774.1 | 1986.2 | 2451.1 | 5537.2  | 12808.0 | 18318.7 | 20920.5 |
| 70°   | 730.0  | 746.8  | 958.9  | 1381.9 | 1578.7 | 1472.6 | 3079.2  | 9795.8  | 16039.3 | 19318.1 |
| 72.5° | 510.9  | 516.5  | 665.8  | 1052.4 | 1271.6 | 1074.8 | 1465.6  | 6531.0  | 12131.0 | 15162.7 |
| 75°   | 346.2  | 353.1  | 448.1  | 771.9  | 1020.3 | 820.7  | 776.1   | 3502.1  | 7121.4  | 8393.0  |
| 77.5° | 212.2  | 215.0  | 288.9  | 527.6  | 763.5  | 625.3  | 499.7   | 1483.8  | 2755.3  | 2705.1  |
| 80°   | 120.0  | 120.0  | 184.2  | 328.0  | 520.6  | 403.4  | 350.3   | 630.9   | 872.4   | 766.3   |
| 82.5° | 67.0   | 68.4   | 134.0  | 203.8  | 344.8  | 238.7  | 192.6   | 291.7   | 376.9   | 333.6   |
| 85°   | 27.9   | 30.7   | 82.4   | 96.3   | 164.7  | 118.6  | 78.2    | 122.8   | 139.6   | 124.2   |
| 87.5° | 2.8    | 4.2    | 25.1   | 18.1   | 19.5   | 23.7   | 11.2    | 23.7    | 19.5    | 19.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P940654

CATALOG NUMBER: GLAN-SB3D-827-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3211.8  | 0°    | 3211.8  | 3211.8 | 3211.8 | 3211.8 | 3211.8 | 3211.8 | 3211.8 | 3211.8 | 3211.8 | 3211.8 |
| 3259.2  | 2.5°  | 3232.7  | 3211.8 | 3158.7 | 3097.3 | 3016.4 | 2977.3 | 2924.2 | 2887.9 | 2857.2 | 2860.0 |
| 3340.2  | 5°    | 3295.5  | 3242.5 | 3123.8 | 2975.9 | 2791.6 | 2660.4 | 2520.8 | 2424.5 | 2346.4 | 2329.6 |
| 3451.8  | 7.5°  | 3382.1  | 3298.3 | 3090.3 | 2823.7 | 2512.5 | 2276.6 | 2065.8 | 1930.4 | 1834.1 | 1803.4 |
| 3587.2  | 10°   | 3493.7  | 3372.3 | 3047.1 | 2632.5 | 2184.5 | 1884.3 | 1658.2 | 1552.1 | 1486.5 | 1464.2 |
| 3746.4  | 12.5° | 3623.5  | 3457.4 | 2989.8 | 2399.4 | 1846.7 | 1557.7 | 1414.0 | 1360.9 | 1340.0 | 1333.0 |
| 3941.8  | 15°   | 3786.8  | 3563.5 | 2903.3 | 2123.0 | 1560.5 | 1358.1 | 1296.7 | 1289.7 | 1292.5 | 1289.7 |
| 4176.3  | 17.5° | 3980.9  | 3679.4 | 2762.3 | 1838.3 | 1367.9 | 1256.2 | 1233.9 | 1239.5 | 1246.5 | 1245.1 |
| 4438.7  | 20°   | 4193.0  | 3793.8 | 2582.3 | 1585.6 | 1236.7 | 1183.7 | 1171.1 | 1176.7 | 1182.3 | 1179.5 |
| 4741.6  | 22.5° | 4434.5  | 3916.7 | 2382.7 | 1388.8 | 1148.8 | 1116.7 | 1102.7 | 1104.1 | 1104.1 | 1098.5 |
| 5125.4  | 25°   | 4723.4  | 4052.1 | 2173.3 | 1249.3 | 1081.8 | 1056.6 | 1039.9 | 1034.3 | 1025.9 | 1009.2 |
| 5591.6  | 27.5° | 5068.2  | 4195.8 | 1972.3 | 1151.5 | 1028.7 | 1005.0 | 985.4  | 971.5  | 950.5  | 922.6  |
| 6151.4  | 30°   | 5456.2  | 4370.3 | 1802.0 | 1090.1 | 986.8  | 963.1  | 940.8  | 919.8  | 889.1  | 854.2  |
| 6794.8  | 32.5° | 5912.7  | 4557.3 | 1677.8 | 1049.7 | 949.2  | 924.0  | 897.5  | 872.4  | 838.9  | 804.0  |
| 7517.9  | 35°   | 6457.0  | 4783.5 | 1605.2 | 1021.7 | 919.8  | 886.3  | 857.0  | 829.1  | 804.0  | 773.3  |
| 8303.7  | 37.5° | 7047.5  | 5023.5 | 1582.9 | 1007.8 | 900.3  | 848.7  | 815.2  | 795.6  | 792.8  | 774.7  |
| 9153.8  | 40°   | 7693.7  | 5308.3 | 1599.6 | 999.4  | 879.4  | 812.4  | 776.1  | 771.9  | 778.9  | 746.8  |
| 10062.4 | 42.5° | 8377.7  | 5646.1 | 1627.5 | 989.6  | 850.1  | 776.1  | 741.2  | 741.2  | 735.6  | 690.9  |
| 11022.7 | 45°   | 9117.5  | 6035.5 | 1655.4 | 965.9  | 815.2  | 739.8  | 713.3  | 703.5  | 679.8  | 636.5  |
| 11988.7 | 47.5° | 9862.8  | 6431.9 | 1676.4 | 922.6  | 773.3  | 709.1  | 685.3  | 663.0  | 628.1  | 589.0  |
| 12936.4 | 50°   | 10570.5 | 6787.8 | 1654.0 | 858.4  | 725.8  | 679.8  | 654.6  | 623.9  | 586.2  | 559.7  |
| 13833.9 | 52.5° | 11202.8 | 7096.3 | 1559.1 | 783.1  | 675.6  | 649.1  | 626.7  | 594.6  | 563.9  | 536.0  |
| 14643.5 | 55°   | 11752.8 | 7346.2 | 1391.6 | 711.9  | 630.9  | 622.5  | 600.2  | 559.7  | 517.8  | 494.1  |
| 15446.1 | 57.5° | 12280.4 | 7536.0 | 1182.3 | 653.2  | 590.4  | 593.2  | 559.7  | 523.4  | 484.3  | 459.2  |
| 16527.8 | 60°   | 12982.5 | 7790.0 | 970.1  | 598.8  | 547.2  | 555.5  | 519.2  | 492.7  | 443.9  | 411.8  |
| 18382.9 | 62.5° | 14104.7 | 8185.1 | 770.5  | 531.8  | 496.9  | 499.7  | 484.3  | 452.2  | 393.6  | 355.9  |
| 19757.8 | 65°   | 14995.2 | 8039.9 | 607.2  | 459.2  | 439.7  | 443.9  | 443.9  | 409.0  | 346.2  | 302.9  |
| 19831.7 | 67.5° | 14894.7 | 6884.2 | 484.3  | 388.0  | 385.2  | 388.0  | 397.8  | 368.5  | 307.1  | 272.2  |
| 18321.5 | 70°   | 13720.9 | 5475.8 | 388.0  | 322.4  | 335.0  | 328.0  | 355.9  | 336.4  | 276.4  | 241.5  |
| 14203.8 | 72.5° | 11195.8 | 3944.6 | 295.9  | 266.6  | 256.8  | 268.0  | 321.0  | 302.9  | 230.3  | 191.2  |
| 7523.4  | 75°   | 6542.2  | 2104.9 | 220.5  | 210.8  | 185.6  | 223.3  | 284.7  | 258.2  | 175.9  | 141.0  |
| 2305.9  | 77.5° | 2130.0  | 734.2  | 161.9  | 154.9  | 138.2  | 180.1  | 242.9  | 217.7  | 143.8  | 111.7  |
| 675.6   | 80°   | 570.9   | 221.9  | 110.3  | 101.9  | 89.3   | 134.0  | 192.6  | 173.1  | 103.3  | 72.6   |
| 290.3   | 82.5° | 228.9   | 93.5   | 64.2   | 57.2   | 48.9   | 92.1   | 152.1  | 139.6  | 76.8   | 46.1   |
| 90.7    | 85°   | 74.0    | 30.7   | 23.7   | 18.1   | 22.3   | 57.2   | 90.7   | 94.9   | 54.4   | 23.7   |
| 14.0    | 87.5° | 9.8     | 4.2    | 4.2    | 5.6    | 4.2    | 9.8    | 27.9   | 26.5   | 15.4   | 2.8    |
| 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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| 180°   |
|--------|
| 3211.8 |
| 2832.1 |
| 2291.9 |
| 1772.7 |
| 1447.5 |
| 1328.8 |
| 1288.3 |
| 1242.3 |
| 1178.1 |
| 1095.7 |
| 1006.4 |
| 919.8  |
| 851.4  |
| 805.4  |
| 770.5  |
| 773.3  |
| 748.2  |
| 690.9  |
| 635.1  |
| 587.6  |
| 555.5  |
| 533.2  |
| 491.3  |
| 456.4  |
| 407.6  |
| 353.1  |
| 298.7  |
| 266.6  |
| 237.3  |
| 187.0  |
| 136.8  |
| 107.5  |
| 71.2   |
| 46.1   |
| 18.1   |
| 0.0    |
| 0.0    |