

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: P941705

Luminaire Tested: **GLAN-SB5B-840-U-T2**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P941705  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB5B-840-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 26959 lumens  
Efficiency: N/A  
Efficacy: 147.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 182.7  
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



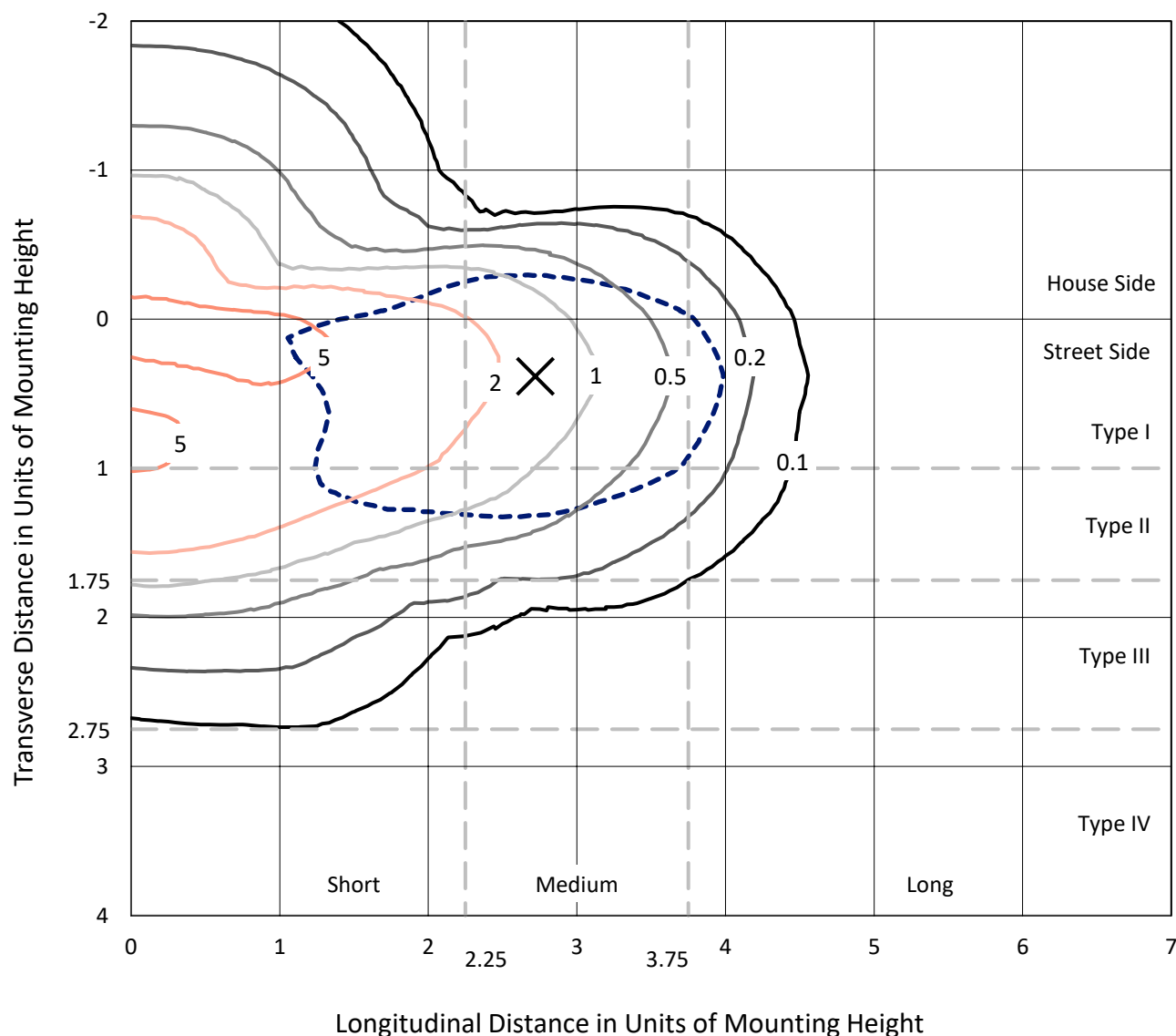
REPORT NUMBER: P941705

CATALOG NUMBER: GLAN-SB5B-840-U-T2

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

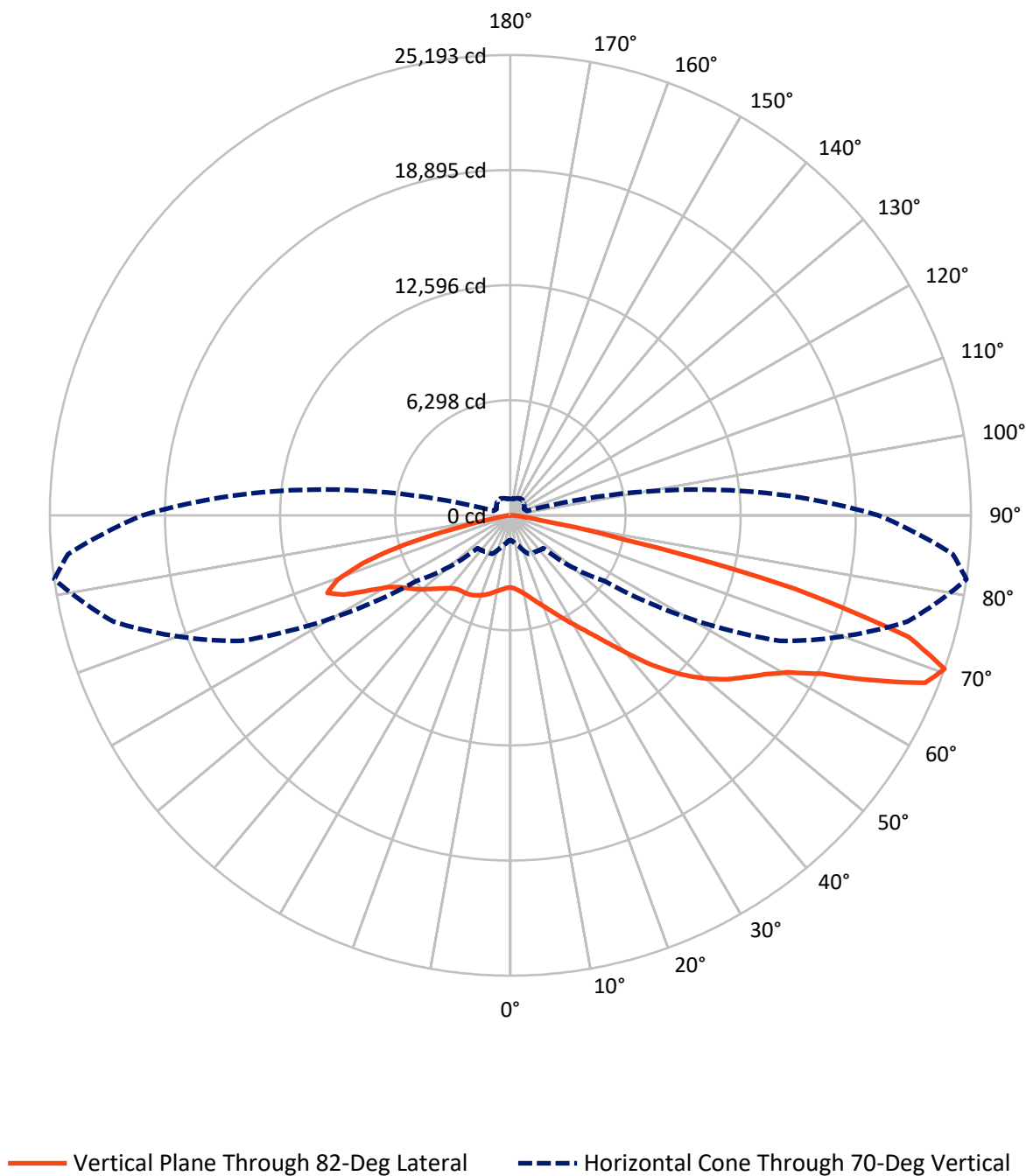
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Medium - N/A

REPORT NUMBER: P941705  
CATALOG NUMBER: GLAN-SB5B-840-U-T2

## Luminous Intensity Polar Plot



REPORT NUMBER: P941705

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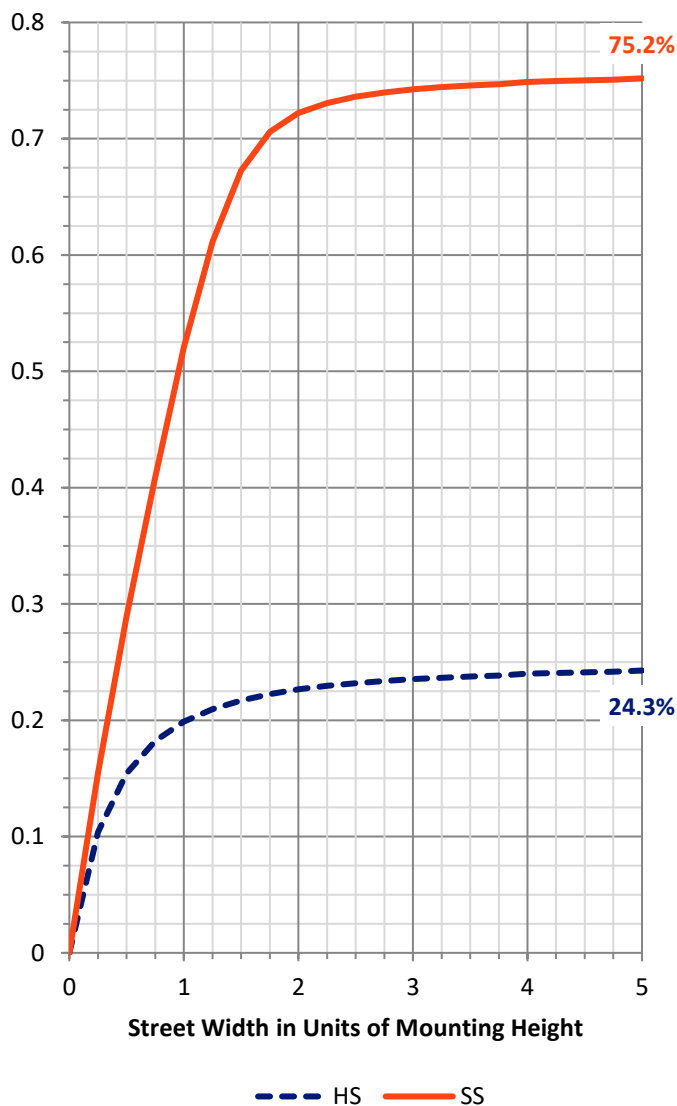
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6646.0   | 0.0    | 6646.0  |
|                    | % Fixture | 24.7     | 0.0    | 24.7    |
| <b>Street Side</b> | Lumens    | 20312.9  | 0.0    | 20312.9 |
|                    | % Fixture | 75.3     | 0.0    | 75.3    |
| <b>Total</b>       | Lumens    | 26959.0  | 0.0    | 26959.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 373.2   | 1.4       |
| 10°-20°   | 1072.2  | 4.0       |
| 20°-30°   | 1793.7  | 6.7       |
| 30°-40°   | 2802.2  | 10.4      |
| 40°-50°   | 4462.8  | 16.6      |
| 50°-60°   | 6210.5  | 23.0      |
| 60°-70°   | 6496.5  | 24.1      |
| 70°-80°   | 3395.4  | 12.6      |
| 80°-90°   | 352.6   | 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°    | 26959.0 | 100.0     |
| 0°-180°   | 26959.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P941705

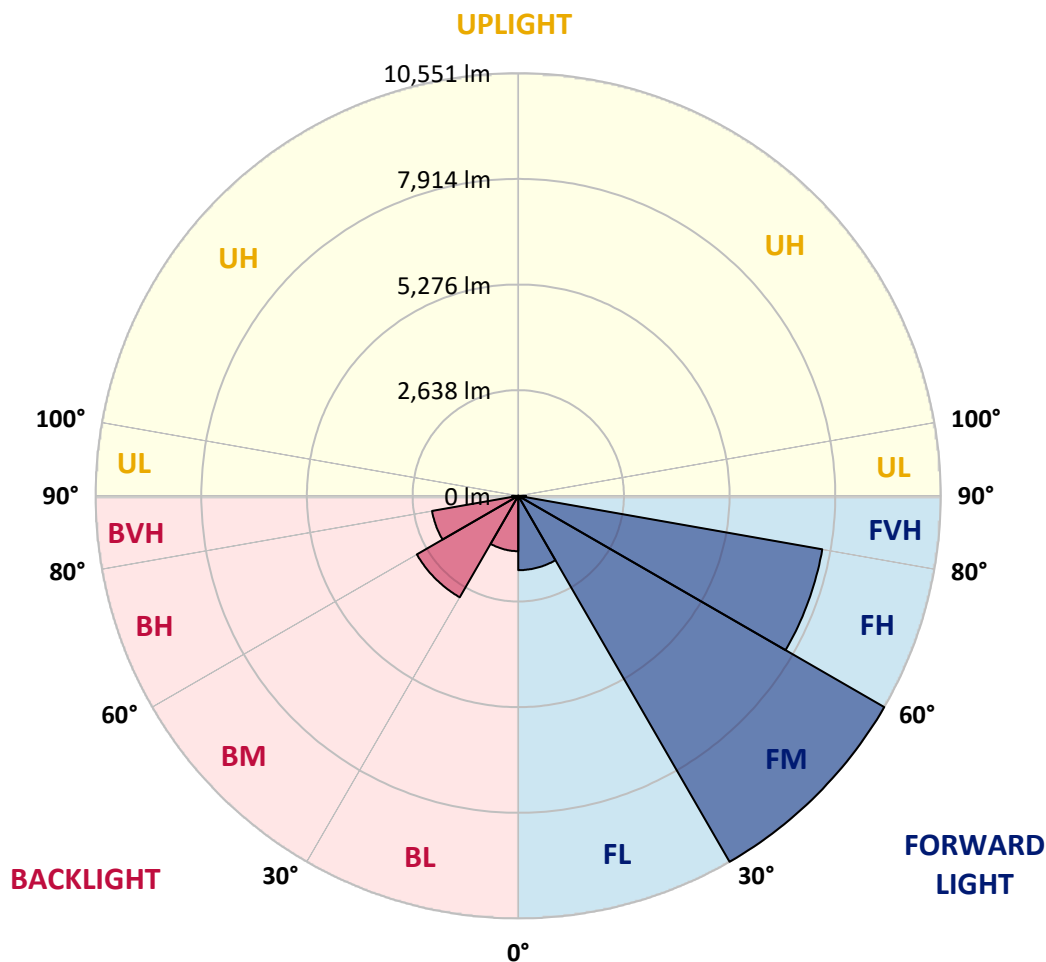
CATALOG NUMBER: GLAN-SB5B-840-U-T2

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1856.4  | 6.9       |                         |      |          |
| FM   | (30°-60°)   | 10551.5 | 39.1      |                         |      |          |
| FH   | (60°-80°)   | 7707.7  | 28.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 197.4   | 0.7       |                         |      | G2/225   |
| BL   | (0°-30°)    | 1382.6  | 5.1       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2924.0  | 10.8      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2184.2  | 8.1       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 155.2   | 0.6       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Medium



REPORT NUMBER: P941705

CATALOG NUMBER: GLAN-SB5B-840-U-T2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 82°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3952.5  | 3952.5  | 3952.5  | 3952.5  | 3952.5  | 3952.5  | 3952.5  | 3952.5  | 3952.5  | 3952.5  |
| 2.5°  | 4046.9  | 4069.8  | 4062.7  | 4055.5  | 4055.5  | 4045.5  | 4044.1  | 4029.8  | 4018.3  | 3999.7  |
| 5°    | 4098.4  | 4122.8  | 4119.9  | 4125.6  | 4144.2  | 4148.5  | 4152.8  | 4144.2  | 4121.3  | 4098.4  |
| 7.5°  | 4052.7  | 4079.8  | 4088.4  | 4122.8  | 4180.0  | 4231.5  | 4270.1  | 4285.8  | 4264.4  | 4231.5  |
| 10°   | 3898.2  | 3928.2  | 3958.2  | 4039.8  | 4141.4  | 4262.9  | 4365.9  | 4427.5  | 4423.2  | 4391.7  |
| 12.5° | 3584.9  | 3616.4  | 3680.7  | 3839.5  | 4025.5  | 4240.1  | 4431.8  | 4560.5  | 4604.8  | 4582.0  |
| 15°   | 3334.5  | 3361.7  | 3410.4  | 3573.4  | 3815.2  | 4141.4  | 4456.1  | 4706.4  | 4819.4  | 4806.5  |
| 17.5° | 3327.4  | 3338.8  | 3368.9  | 3446.1  | 3632.1  | 3986.9  | 4430.3  | 4849.5  | 5065.5  | 5064.0  |
| 20°   | 3453.3  | 3457.6  | 3474.7  | 3490.5  | 3596.3  | 3869.6  | 4364.5  | 4968.2  | 5341.6  | 5341.6  |
| 22.5° | 3627.8  | 3624.9  | 3642.1  | 3627.8  | 3679.3  | 3859.5  | 4323.0  | 5072.6  | 5649.1  | 5672.0  |
| 25°   | 3889.6  | 3875.3  | 3871.0  | 3838.1  | 3848.1  | 3952.5  | 4368.8  | 5191.4  | 6013.9  | 6061.1  |
| 27.5° | 4238.6  | 4215.7  | 4200.0  | 4124.2  | 4098.4  | 4144.2  | 4509.0  | 5334.4  | 6420.2  | 6501.7  |
| 30°   | 4693.5  | 4652.1  | 4629.2  | 4497.6  | 4404.6  | 4411.7  | 4720.7  | 5524.7  | 6845.0  | 6976.6  |
| 32.5° | 5314.4  | 5250.0  | 5188.5  | 4972.5  | 4802.3  | 4746.5  | 4993.9  | 5787.9  | 7305.7  | 7516.0  |
| 35°   | 6009.6  | 5958.1  | 5892.3  | 5559.0  | 5297.2  | 5168.5  | 5363.0  | 6155.5  | 7845.0  | 8178.3  |
| 37.5° | 6679.1  | 6634.8  | 6666.2  | 6217.0  | 5879.4  | 5692.0  | 5846.5  | 6649.1  | 8510.2  | 9002.3  |
| 40°   | 7371.5  | 7337.1  | 7341.4  | 6912.3  | 6518.9  | 6308.6  | 6433.0  | 7268.5  | 9272.6  | 9982.2  |
| 42.5° | 8123.9  | 8098.2  | 8012.3  | 7631.8  | 7189.8  | 6993.8  | 7108.3  | 7983.7  | 10090.9 | 11098.0 |
| 45°   | 8966.5  | 8950.8  | 8870.7  | 8434.3  | 7927.9  | 7707.6  | 7862.1  | 8773.4  | 10913.4 | 12148.0 |
| 47.5° | 9694.6  | 9707.5  | 9697.5  | 9329.9  | 8804.9  | 8481.6  | 8666.1  | 9597.4  | 11678.8 | 13135.0 |
| 50°   | 10045.1 | 10112.3 | 10211.1 | 10096.6 | 9770.5  | 9441.4  | 9477.2  | 10392.7 | 12408.3 | 14060.6 |
| 52.5° | 9862.0  | 9989.3  | 10258.3 | 10441.4 | 10567.3 | 10498.6 | 10402.7 | 11182.4 | 13095.0 | 14896.0 |
| 55°   | 9179.6  | 9358.5  | 9804.8  | 10246.8 | 10889.1 | 11388.4 | 11514.3 | 12057.9 | 13764.5 | 15631.3 |
| 57.5° | 7936.5  | 8226.9  | 8627.5  | 9521.5  | 10603.0 | 11819.0 | 12810.3 | 13272.4 | 14474.0 | 16416.6 |
| 60°   | 5805.0  | 6194.2  | 6692.0  | 8022.4  | 9601.6  | 11588.6 | 13913.2 | 15137.8 | 15482.5 | 17433.7 |
| 62.5° | 3715.1  | 3955.4  | 4413.2  | 5666.3  | 7481.6  | 10408.5 | 14250.8 | 17469.5 | 17192.0 | 19101.7 |
| 65°   | 2543.5  | 2698.0  | 3117.1  | 3820.9  | 4836.6  | 7747.7  | 13346.8 | 19217.6 | 19907.1 | 21745.3 |
| 67.5° | 1848.2  | 1965.5  | 2323.2  | 2939.7  | 3151.4  | 4584.8  | 10357.0 | 19137.5 | 22546.4 | 24469.0 |
| 70°   | 1347.5  | 1430.5  | 1730.9  | 2323.2  | 2424.7  | 2550.6  | 6274.3  | 16267.9 | 22489.2 | 25192.9 |
| 72.5° | 998.5   | 1055.7  | 1257.4  | 1802.5  | 1962.7  | 1722.3  | 3105.7  | 11823.2 | 19324.9 | 22786.8 |
| 75°   | 722.4   | 765.3   | 914.1   | 1379.0  | 1570.7  | 1311.8  | 1549.3  | 6909.4  | 13479.8 | 16029.0 |
| 77.5° | 552.2   | 585.1   | 682.4   | 1009.9  | 1257.4  | 984.2   | 961.3   | 3178.6  | 6391.6  | 6423.0  |
| 80°   | 443.5   | 464.9   | 517.8   | 711.0   | 964.2   | 736.7   | 626.6   | 1283.2  | 2019.9  | 1709.5  |
| 82.5° | 326.2   | 361.9   | 437.7   | 499.3   | 689.5   | 507.8   | 381.9   | 648.0   | 768.2   | 660.9   |
| 85°   | 186.0   | 210.3   | 264.6   | 357.6   | 440.6   | 310.4   | 218.9   | 287.5   | 357.6   | 293.3   |
| 87.5° | 65.8    | 85.8    | 93.0    | 140.2   | 191.7   | 128.7   | 84.4    | 83.0    | 117.3   | 87.3    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P941705

CATALOG NUMBER: GLAN-SB5B-840-U-T2

**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3952.5  | 0°    | 3952.5  | 3952.5  | 3952.5 | 3952.5 | 3952.5 | 3952.5 | 3952.5 | 3952.5 | 3952.5 | 3952.5 |
| 3995.4  | 2.5°  | 3981.1  | 3974.0  | 3945.4 | 3906.7 | 3866.7 | 3828.1 | 3815.2 | 3788.0 | 3769.4 | 3759.4 |
| 4088.4  | 5°    | 4061.2  | 4038.4  | 3971.1 | 3885.3 | 3795.2 | 3697.9 | 3629.2 | 3566.3 | 3520.5 | 3477.6 |
| 4215.7  | 7.5°  | 4175.7  | 4135.6  | 4019.8 | 3869.6 | 3709.3 | 3547.7 | 3427.5 | 3336.0 | 3274.5 | 3234.4 |
| 4364.5  | 10°   | 4308.7  | 4247.2  | 4069.8 | 3845.2 | 3597.8 | 3366.0 | 3224.4 | 3145.7 | 3107.1 | 3085.6 |
| 4534.7  | 12.5° | 4461.8  | 4374.5  | 4121.3 | 3789.4 | 3427.5 | 3162.9 | 3065.6 | 3042.7 | 3044.1 | 3045.6 |
| 4749.3  | 15°   | 4650.6  | 4529.0  | 4162.8 | 3667.9 | 3205.8 | 3007.0 | 2989.8 | 3027.0 | 3065.6 | 3084.2 |
| 4992.5  | 17.5° | 4863.8  | 4692.1  | 4170.0 | 3467.6 | 2988.4 | 2906.8 | 2961.2 | 3041.3 | 3099.9 | 3125.7 |
| 5264.3  | 20°   | 5092.7  | 4858.0  | 4118.5 | 3184.3 | 2809.5 | 2825.3 | 2922.6 | 3025.5 | 3089.9 | 3122.8 |
| 5574.7  | 22.5° | 5354.4  | 5035.4  | 3995.4 | 2886.8 | 2663.6 | 2736.6 | 2851.0 | 2951.2 | 3018.4 | 3051.3 |
| 5939.5  | 25°   | 5653.4  | 5234.3  | 3802.3 | 2636.4 | 2537.7 | 2636.4 | 2750.9 | 2833.9 | 2888.2 | 2918.3 |
| 6347.2  | 27.5° | 5985.3  | 5441.7  | 3544.8 | 2437.6 | 2427.6 | 2533.5 | 2627.9 | 2692.2 | 2720.8 | 2743.7 |
| 6780.7  | 30°   | 6318.6  | 5630.5  | 3233.0 | 2287.4 | 2331.7 | 2431.9 | 2499.1 | 2527.7 | 2536.3 | 2540.6 |
| 7264.2  | 32.5° | 6679.1  | 5793.6  | 2905.4 | 2162.9 | 2240.2 | 2333.2 | 2373.2 | 2386.1 | 2346.1 | 2318.9 |
| 7850.7  | 35°   | 7115.4  | 5968.1  | 2584.9 | 2064.2 | 2150.1 | 2230.2 | 2243.1 | 2231.6 | 2184.4 | 2128.6 |
| 8586.0  | 37.5° | 7654.7  | 6185.6  | 2328.9 | 1994.1 | 2065.7 | 2118.6 | 2102.9 | 2100.0 | 2104.3 | 2038.5 |
| 9470.0  | 40°   | 8315.6  | 6468.8  | 2141.5 | 1939.8 | 1997.0 | 2008.4 | 1964.1 | 1988.4 | 2009.9 | 1909.7 |
| 10439.9 | 42.5° | 9049.5  | 6810.7  | 2022.8 | 1902.6 | 1939.8 | 1912.6 | 1843.9 | 1871.1 | 1868.3 | 1736.7 |
| 11414.1 | 45°   | 9797.6  | 7182.6  | 1981.3 | 1875.4 | 1886.9 | 1832.5 | 1756.7 | 1763.8 | 1703.7 | 1585.0 |
| 12348.2 | 47.5° | 10541.5 | 7581.8  | 2007.0 | 1852.5 | 1821.1 | 1759.5 | 1700.9 | 1669.4 | 1580.7 | 1492.0 |
| 13243.8 | 50°   | 11271.1 | 8000.9  | 2101.4 | 1806.7 | 1730.9 | 1695.2 | 1652.3 | 1596.5 | 1502.0 | 1426.2 |
| 14090.6 | 52.5° | 11947.7 | 8422.9  | 2207.3 | 1730.9 | 1617.9 | 1639.4 | 1612.2 | 1547.8 | 1454.8 | 1377.6 |
| 14891.7 | 55°   | 12588.6 | 8844.9  | 2248.8 | 1626.5 | 1512.1 | 1590.7 | 1575.0 | 1456.3 | 1344.7 | 1281.7 |
| 15730.0 | 57.5° | 13286.7 | 9352.7  | 2203.0 | 1493.5 | 1426.2 | 1534.9 | 1474.9 | 1343.3 | 1278.9 | 1231.7 |
| 16821.5 | 60°   | 14253.7 | 10149.5 | 2104.3 | 1329.0 | 1344.7 | 1452.0 | 1349.0 | 1294.6 | 1224.5 | 1171.6 |
| 18458.0 | 62.5° | 15860.2 | 11635.8 | 1945.5 | 1165.9 | 1248.8 | 1329.0 | 1288.9 | 1234.5 | 1163.0 | 1111.5 |
| 21256.1 | 65°   | 18234.8 | 13701.5 | 1646.5 | 1038.6 | 1141.6 | 1208.8 | 1224.5 | 1170.2 | 1095.8 | 1041.4 |
| 23708.0 | 67.5° | 20237.6 | 14997.6 | 1246.0 | 932.7  | 1031.4 | 1111.5 | 1155.9 | 1102.9 | 1024.3 | 971.3  |
| 24281.6 | 70°   | 20127.4 | 14056.3 | 951.3  | 828.3  | 934.1  | 1015.7 | 1072.9 | 1031.4 | 947.0  | 896.9  |
| 22055.8 | 72.5° | 17877.2 | 11758.9 | 769.6  | 722.4  | 835.4  | 915.5  | 984.2  | 952.7  | 866.9  | 818.3  |
| 16157.7 | 75°   | 13133.6 | 8347.1  | 615.1  | 615.1  | 712.4  | 811.1  | 886.9  | 866.9  | 788.2  | 753.9  |
| 6783.5  | 77.5° | 5536.1  | 3501.9  | 482.1  | 510.7  | 592.2  | 696.7  | 791.1  | 798.2  | 729.6  | 772.5  |
| 1793.9  | 80°   | 1472.0  | 965.6   | 367.6  | 402.0  | 464.9  | 575.1  | 688.1  | 685.2  | 610.8  | 570.8  |
| 666.6   | 82.5° | 560.8   | 380.5   | 261.8  | 283.2  | 336.2  | 440.6  | 545.0  | 562.2  | 487.8  | 422.0  |
| 261.8   | 85°   | 216.0   | 163.1   | 161.6  | 170.2  | 196.0  | 291.8  | 412.0  | 426.3  | 367.6  | 311.9  |
| 73.0    | 87.5° | 55.8    | 48.6    | 60.1   | 57.2   | 90.1   | 155.9  | 236.0  | 244.6  | 224.6  | 130.2  |
| 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°   |
|--------|
| 3952.5 |
| 3770.9 |
| 3494.8 |
| 3243.0 |
| 3091.4 |
| 3048.4 |
| 3082.8 |
| 3131.4 |
| 3131.4 |
| 3059.9 |
| 2926.8 |
| 2752.3 |
| 2550.6 |
| 2327.5 |
| 2131.5 |
| 2042.8 |
| 1912.6 |
| 1735.2 |
| 1589.3 |
| 1492.0 |
| 1420.5 |
| 1379.0 |
| 1276.0 |
| 1227.4 |
| 1168.7 |
| 1111.5 |
| 1044.3 |
| 972.8  |
| 901.2  |
| 818.3  |
| 743.9  |
| 701.0  |
| 530.7  |
| 422.0  |
| 321.9  |
| 186.0  |
| 0.0    |