

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: P949725

Luminaire Tested: **GLAN-SB4B-927-U-AFL-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P949725  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB4B-927-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 11712 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

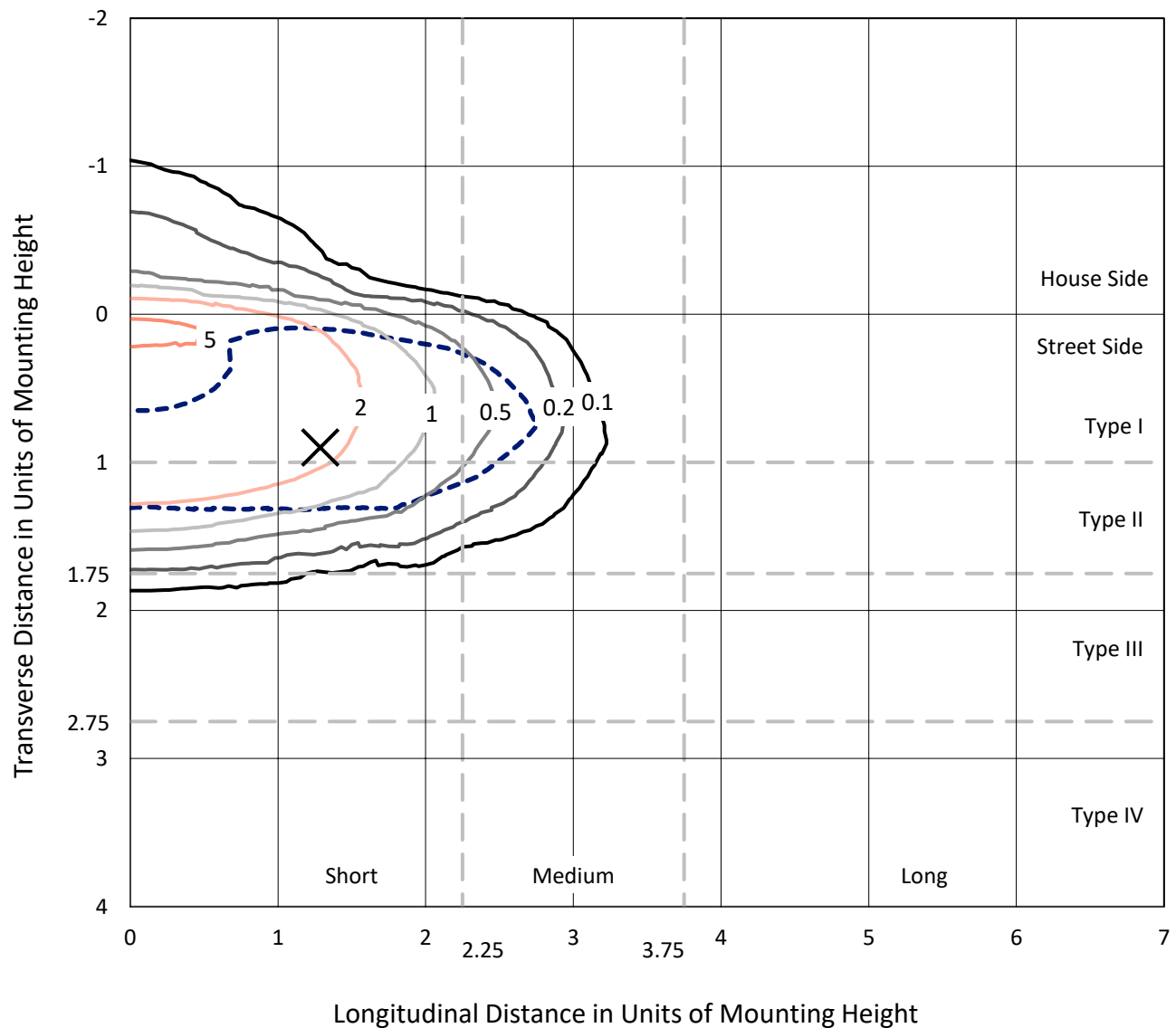
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P949725  
CATALOG NUMBER: GLAN-SB4B-927-U-AFL-HSS

## Iso-Footcandle Lines of Horizontal Illumination

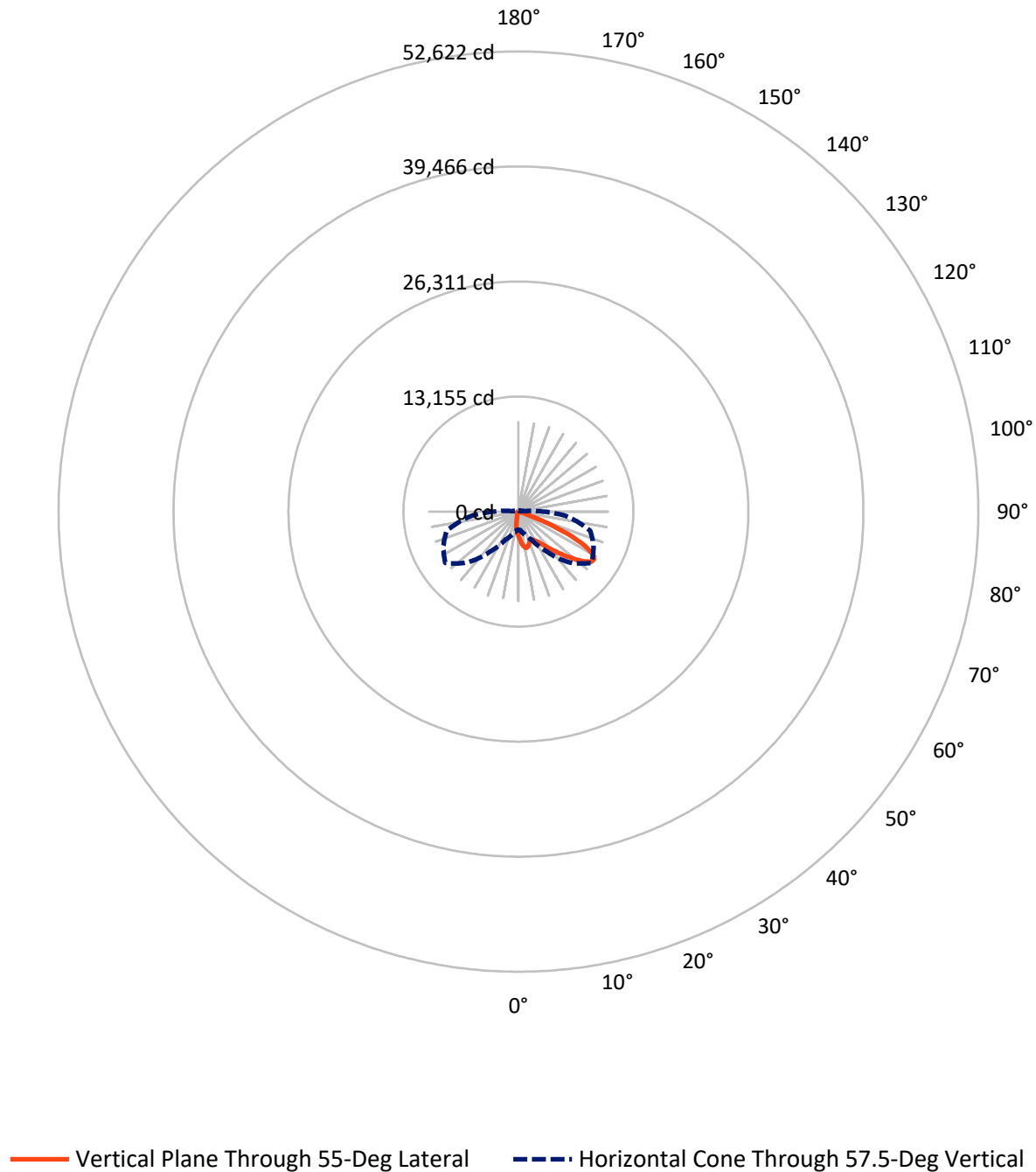
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
Type II - Short - N/A

REPORT NUMBER: P949725  
CATALOG NUMBER: GLAN-SB4B-927-U-AFL-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P949725

CATALOG NUMBER: GLAN-SB4B-927-U-AFL-HSS

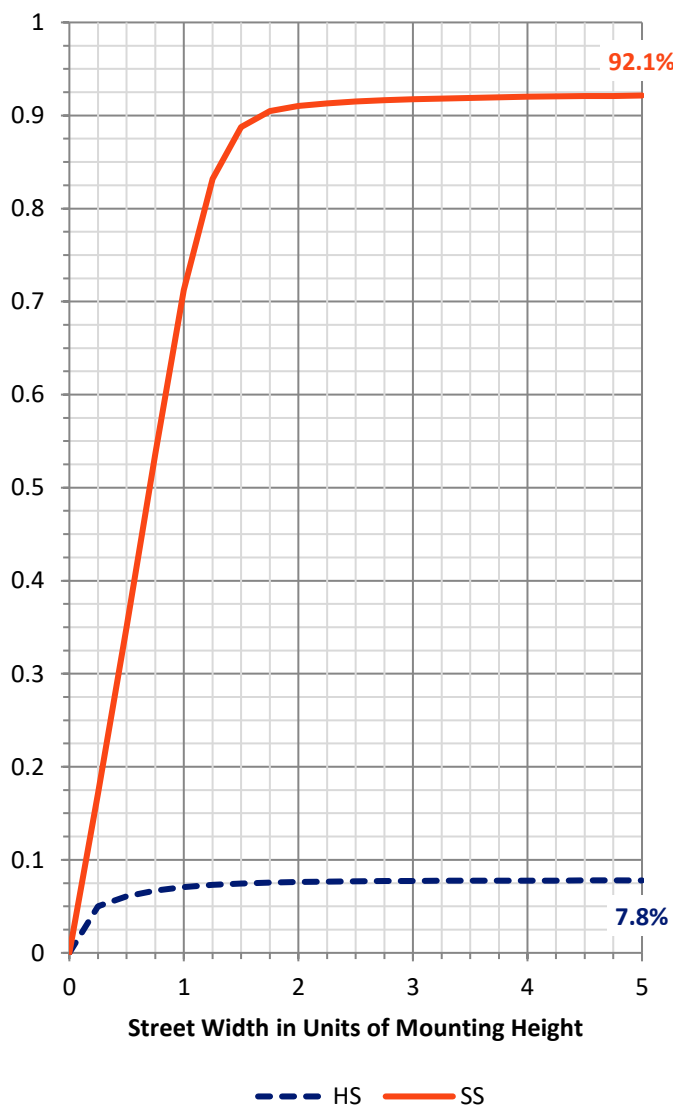
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 914.7    | 0.0    | 914.7   |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 10797.3  | 0.0    | 10797.3 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 11712.0  | 0.0    | 11712.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 262.6   | 2.2       |
| 10°-20°   | 634.3   | 5.4       |
| 20°-30°   | 1014.9  | 8.7       |
| 30°-40°   | 1717.8  | 14.7      |
| 40°-50°   | 2820.2  | 24.1      |
| 50°-60°   | 3099.6  | 26.5      |
| 60°-70°   | 1777.9  | 15.2      |
| 70°-80°   | 363.3   | 3.1       |
| 80°-90°   | 21.4    | 0.2       |
| 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°    | 11712.0 | 100.0     |
| 0°-180°   | 11712.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P949725

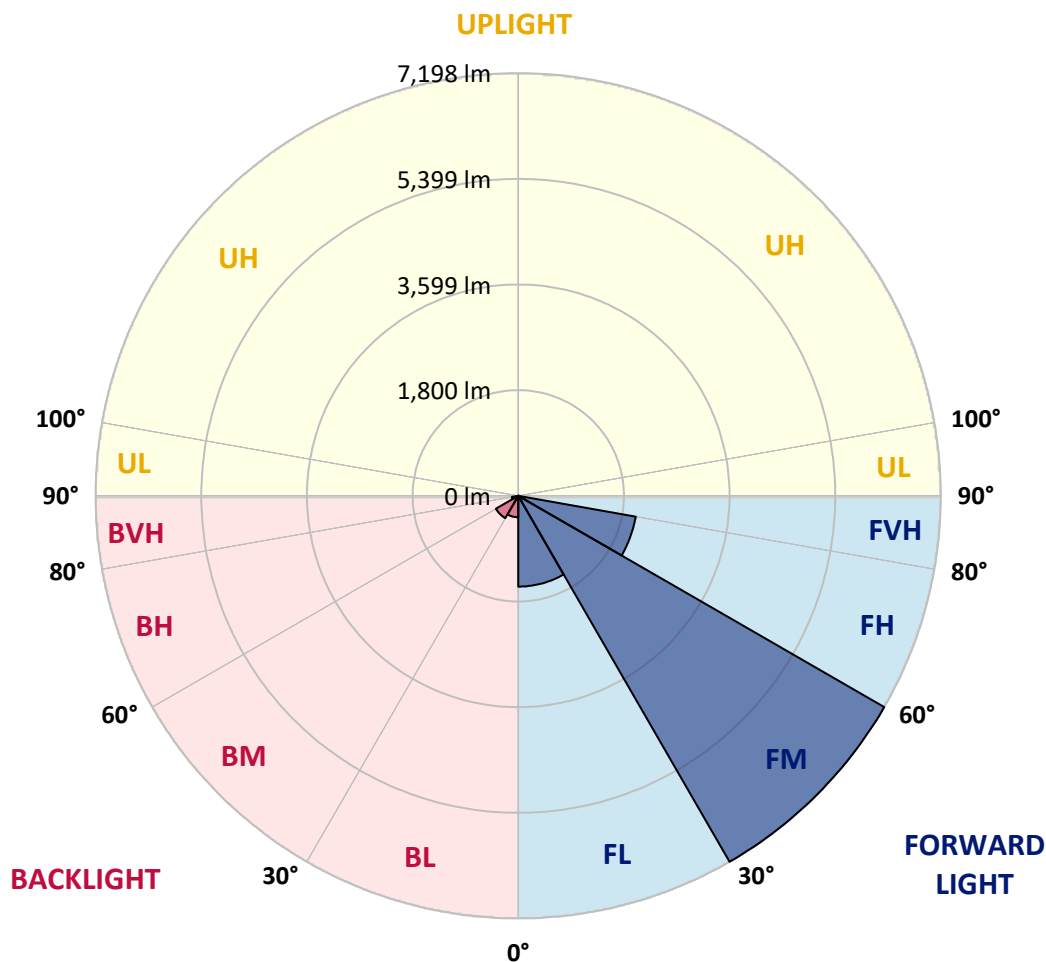
CATALOG NUMBER: GLAN-SB4B-927-U-AFL-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1546.6 | 13.2      |                         |      |         |
| FM   | (30°-60°)   | 7198.3 | 61.5      |                         |      |         |
| FH   | (60°-80°)   | 2032.4 | 17.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 20.0   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 365.2  | 3.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 439.3  | 3.8       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 108.8  | 0.9       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.4    | 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 II Short



REPORT NUMBER: P949725

CATALOG NUMBER: GLAN-SB4B-927-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|
| 0°    | 2822.3 | 2822.3 | 2822.3 | 2822.3 | 2822.3 | 2822.3 | 2822.3  | 2822.3 | 2822.3 | 2822.3 |
| 2.5°  | 3501.9 | 3457.8 | 3451.3 | 3442.7 | 3358.9 | 3296.1 | 3205.1  | 3105.4 | 2993.5 | 2879.4 |
| 5°    | 4045.7 | 4011.0 | 4004.5 | 3964.1 | 3868.8 | 3761.9 | 3600.1  | 3395.7 | 3187.0 | 2941.5 |
| 7.5°  | 4151.1 | 4144.6 | 4174.2 | 4172.8 | 4159.8 | 4075.3 | 3938.8  | 3695.4 | 3382.0 | 3018.0 |
| 10°   | 3681.0 | 3697.6 | 3785.7 | 3863.0 | 4071.7 | 4193.0 | 4163.4  | 3962.6 | 3582.8 | 3105.4 |
| 12.5° | 3252.7 | 3233.2 | 3296.1 | 3383.4 | 3626.1 | 3987.2 | 4256.6  | 4185.8 | 3812.4 | 3204.3 |
| 15°   | 2984.1 | 2976.1 | 3011.5 | 3052.0 | 3236.8 | 3600.8 | 4148.2  | 4367.1 | 4033.4 | 3321.3 |
| 17.5° | 2898.1 | 2891.6 | 2902.5 | 2912.6 | 3032.5 | 3314.1 | 3890.4  | 4478.3 | 4245.0 | 3454.9 |
| 20°   | 2968.2 | 2959.5 | 2958.1 | 2950.1 | 3000.0 | 3192.1 | 3657.2  | 4486.2 | 4434.9 | 3576.3 |
| 22.5° | 3172.6 | 3162.5 | 3127.1 | 3095.3 | 3099.6 | 3208.7 | 3553.2  | 4406.8 | 4577.9 | 3689.6 |
| 25°   | 3543.0 | 3526.4 | 3452.8 | 3345.9 | 3278.0 | 3324.2 | 3569.0  | 4302.1 | 4714.4 | 3778.5 |
| 27.5° | 4006.7 | 3985.0 | 3890.4 | 3731.5 | 3576.3 | 3519.9 | 3683.9  | 4229.8 | 4827.8 | 3846.4 |
| 30°   | 4460.9 | 4432.8 | 4339.6 | 4216.1 | 3989.4 | 3811.7 | 3891.1  | 4261.6 | 4962.9 | 3917.1 |
| 32.5° | 4951.3 | 4924.6 | 4801.1 | 4648.0 | 4460.2 | 4221.2 | 4175.0  | 4416.9 | 5128.2 | 4016.1 |
| 35°   | 5571.7 | 5529.8 | 5354.3 | 5145.6 | 4946.3 | 4704.3 | 4559.2  | 4684.8 | 5348.5 | 4167.0 |
| 37.5° | 6278.0 | 6221.6 | 6032.4 | 5744.3 | 5484.3 | 5213.5 | 5027.1  | 5053.1 | 5671.3 | 4369.2 |
| 40°   | 6943.8 | 6892.5 | 6717.8 | 6446.2 | 6119.8 | 5791.2 | 5592.6  | 5534.8 | 6116.9 | 4615.5 |
| 42.5° | 7343.2 | 7297.0 | 7223.3 | 7108.5 | 6833.3 | 6498.2 | 6247.6  | 6122.7 | 6644.1 | 4910.1 |
| 45°   | 7365.6 | 7325.1 | 7424.1 | 7557.7 | 7503.5 | 7280.4 | 6974.9  | 6745.9 | 7173.5 | 5186.7 |
| 47.5° | 7007.4 | 6979.9 | 7280.4 | 7746.9 | 7979.4 | 8073.3 | 7791.7  | 7317.2 | 7610.4 | 5385.3 |
| 50°   | 6031.0 | 6020.9 | 6639.1 | 7495.6 | 8160.7 | 8768.1 | 8653.2  | 7848.7 | 7949.1 | 5487.9 |
| 52.5° | 5229.3 | 5192.5 | 5552.9 | 6691.1 | 7897.1 | 9133.5 | 9495.3  | 8370.1 | 8186.0 | 5507.4 |
| 55°   | 3966.2 | 3933.7 | 4385.8 | 5344.9 | 7047.1 | 9003.5 | 10111.3 | 8908.2 | 8355.7 | 5457.6 |
| 57.5° | 2127.6 | 2107.3 | 2678.6 | 3557.5 | 5508.8 | 8223.5 | 10222.5 | 9477.2 | 8498.7 | 5325.4 |
| 60°   | 828.3  | 824.7  | 1038.5 | 1726.0 | 3348.1 | 6690.3 | 9661.4  | 9818.8 | 8588.2 | 5162.9 |
| 62.5° | 501.2  | 512.0  | 546.7  | 774.9  | 1479.0 | 4156.2 | 8368.0  | 9430.3 | 8648.2 | 5014.1 |
| 65°   | 414.5  | 415.3  | 419.6  | 532.3  | 708.5  | 1739.0 | 6299.6  | 8152.0 | 8500.1 | 4749.1 |
| 67.5° | 355.3  | 361.8  | 378.4  | 422.5  | 499.8  | 762.6  | 3626.8  | 6314.8 | 7599.6 | 4132.3 |
| 70°   | 280.2  | 288.9  | 309.8  | 347.4  | 385.6  | 477.4  | 1340.4  | 4201.7 | 5805.7 | 3114.8 |
| 72.5° | 236.2  | 235.4  | 246.3  | 282.4  | 306.2  | 335.8  | 515.6   | 2354.3 | 3374.1 | 1487.0 |
| 75°   | 182.7  | 189.9  | 203.7  | 236.2  | 250.6  | 243.4  | 279.5   | 860.1  | 1208.9 | 450.6  |
| 77.5° | 143.0  | 148.8  | 161.0  | 192.8  | 207.3  | 172.6  | 161.0   | 307.7  | 388.5  | 161.8  |
| 80°   | 64.3   | 69.3   | 109.8  | 142.3  | 169.0  | 119.2  | 87.4    | 157.4  | 172.6  | 73.7   |
| 82.5° | 11.6   | 19.5   | 64.3   | 75.1   | 86.7   | 77.3   | 45.5    | 81.6   | 84.5   | 29.6   |
| 85°   | 0.7    | 1.4    | 22.4   | 27.4   | 34.7   | 25.3   | 13.7    | 32.5   | 28.2   | 10.1   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 3.6    | 4.3     | 5.8    | 4.3    | 3.6    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P949725

CATALOG NUMBER: GLAN-SB4B-927-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

| 90°    |       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2822.3 | 0°    | 2822.3 | 2822.3 | 2822.3 | 2822.3 | 2822.3 | 2822.3 | 2822.3 | 2822.3 | 2822.3 | 2822.3 |
| 2828.8 | 2.5°  | 2776.8 | 2674.3 | 2574.6 | 2493.0 | 2445.3 | 2364.4 | 2311.0 | 2302.3 | 2279.9 | 2299.4 |
| 2836.0 | 5°    | 2723.4 | 2539.9 | 2354.3 | 2188.2 | 2051.7 | 1875.5 | 1744.1 | 1688.5 | 1640.1 | 1656.7 |
| 2854.8 | 7.5°  | 2698.1 | 2408.5 | 2119.6 | 1835.8 | 1544.0 | 1262.4 | 1052.9 | 965.6  | 899.1  | 908.5  |
| 2875.7 | 10°   | 2664.1 | 2272.0 | 1819.2 | 1385.9 | 995.2  | 717.1  | 572.7  | 519.3  | 489.6  | 490.4  |
| 2906.8 | 12.5° | 2638.1 | 2108.8 | 1470.4 | 939.6  | 605.9  | 457.9  | 413.1  | 400.1  | 391.4  | 392.1  |
| 2953.7 | 15°   | 2625.1 | 1916.7 | 1125.9 | 626.1  | 433.3  | 387.8  | 377.0  | 371.2  | 365.4  | 364.7  |
| 3005.7 | 17.5° | 2603.5 | 1702.9 | 824.0  | 457.1  | 379.1  | 363.3  | 353.9  | 347.4  | 340.1  | 338.7  |
| 3050.5 | 20°   | 2571.0 | 1460.3 | 602.3  | 386.4  | 355.3  | 343.0  | 330.0  | 321.4  | 312.7  | 311.3  |
| 3078.7 | 22.5° | 2511.0 | 1203.9 | 462.9  | 357.5  | 338.0  | 324.3  | 308.4  | 298.3  | 289.6  | 288.2  |
| 3065.0 | 25°   | 2399.8 | 963.4  | 390.0  | 339.4  | 322.8  | 306.2  | 288.9  | 275.2  | 267.2  | 265.8  |
| 3035.3 | 27.5° | 2259.0 | 756.9  | 353.9  | 322.8  | 303.3  | 288.2  | 268.7  | 255.7  | 248.4  | 247.0  |
| 2996.4 | 30°   | 2092.9 | 582.8  | 332.9  | 304.0  | 280.2  | 267.2  | 249.9  | 239.0  | 234.7  | 234.7  |
| 2968.9 | 32.5° | 1913.8 | 465.8  | 324.3  | 285.3  | 260.0  | 245.5  | 231.8  | 227.5  | 226.0  | 225.3  |
| 2984.1 | 35°   | 1745.5 | 404.4  | 319.9  | 270.1  | 241.9  | 228.2  | 222.4  | 223.2  | 226.0  | 226.0  |
| 3031.0 | 37.5° | 1596.0 | 384.9  | 317.8  | 259.3  | 226.0  | 213.8  | 217.4  | 223.9  | 221.0  | 221.0  |
| 3113.3 | 40°   | 1461.0 | 387.1  | 316.3  | 251.3  | 213.0  | 205.8  | 213.0  | 208.0  | 200.8  | 200.0  |
| 3213.7 | 42.5° | 1357.7 | 405.1  | 313.4  | 244.8  | 205.1  | 200.0  | 197.2  | 189.2  | 188.5  | 189.9  |
| 3317.7 | 45°   | 1282.6 | 421.0  | 312.7  | 241.9  | 196.4  | 187.0  | 183.4  | 175.5  | 189.9  | 193.5  |
| 3360.3 | 47.5° | 1193.8 | 421.0  | 312.7  | 231.8  | 182.0  | 178.4  | 172.6  | 163.9  | 178.4  | 182.0  |
| 3319.9 | 50°   | 1078.9 | 394.3  | 300.4  | 220.3  | 170.4  | 168.3  | 158.2  | 147.3  | 144.4  | 146.6  |
| 3225.3 | 52.5° | 933.8  | 345.9  | 269.4  | 204.4  | 158.9  | 154.5  | 142.3  | 134.3  | 132.2  | 132.2  |
| 3055.6 | 55°   | 768.4  | 289.6  | 227.5  | 181.3  | 146.6  | 138.7  | 130.0  | 126.4  | 124.2  | 122.8  |
| 2818.0 | 57.5° | 624.7  | 237.6  | 182.7  | 161.0  | 135.0  | 124.9  | 122.0  | 117.7  | 114.1  | 111.9  |
| 2619.4 | 60°   | 512.8  | 187.0  | 150.9  | 143.0  | 123.5  | 114.1  | 113.4  | 107.6  | 98.2   | 96.8   |
| 2455.4 | 62.5° | 395.8  | 137.2  | 127.1  | 124.2  | 111.9  | 104.0  | 102.6  | 91.0   | 76.6   | 73.7   |
| 2222.9 | 65°   | 279.5  | 106.9  | 102.6  | 109.1  | 99.7   | 92.4   | 88.8   | 71.5   | 56.3   | 54.2   |
| 1860.4 | 67.5° | 196.4  | 89.6   | 80.9   | 95.3   | 86.7   | 77.3   | 75.1   | 60.7   | 46.9   | 45.5   |
| 1406.8 | 70°   | 140.1  | 72.9   | 66.4   | 81.6   | 69.3   | 67.9   | 63.6   | 50.6   | 38.3   | 36.8   |
| 696.2  | 72.5° | 98.9   | 55.6   | 51.3   | 70.8   | 47.7   | 58.5   | 52.0   | 39.0   | 28.9   | 27.4   |
| 236.9  | 75°   | 72.9   | 39.7   | 36.1   | 41.2   | 34.7   | 44.1   | 36.8   | 26.0   | 18.1   | 17.3   |
| 106.9  | 77.5° | 53.4   | 25.3   | 21.7   | 20.2   | 20.2   | 27.4   | 20.2   | 10.8   | 7.9    | 7.2    |
| 54.2   | 80°   | 37.6   | 11.6   | 10.1   | 8.7    | 7.9    | 6.5    | 2.9    | 1.4    | 0.7    | 0.7    |
| 18.8   | 82.5° | 22.4   | 5.1    | 5.1    | 3.6    | 2.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 7.2    | 85°   | 5.1    | 2.2    | 2.2    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 2.9    | 87.5° | 0.7    | 0.7    | 0.0    | 0.0    | 0.0    | 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    |

(END OF RI



