

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: P452310

Luminaire Tested: **GLAN-SA3B-730-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452310  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3B-730-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12675 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 121  
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

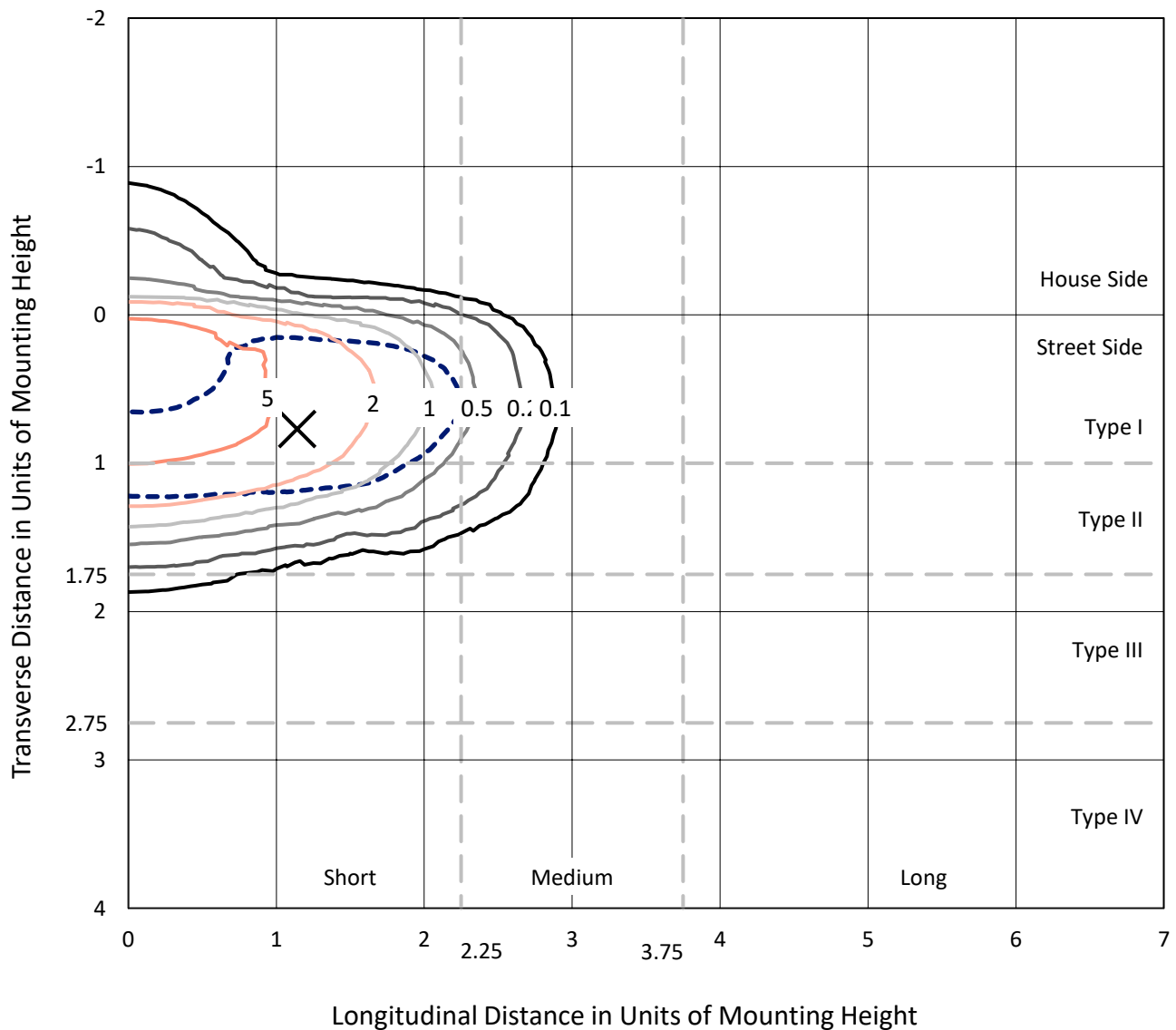


REPORT NUMBER: P452310

CATALOG NUMBER: GLAN-SA3B-730-U-AFL-HSS

## Iso-Footcandle Lines of Horizontal Illumination

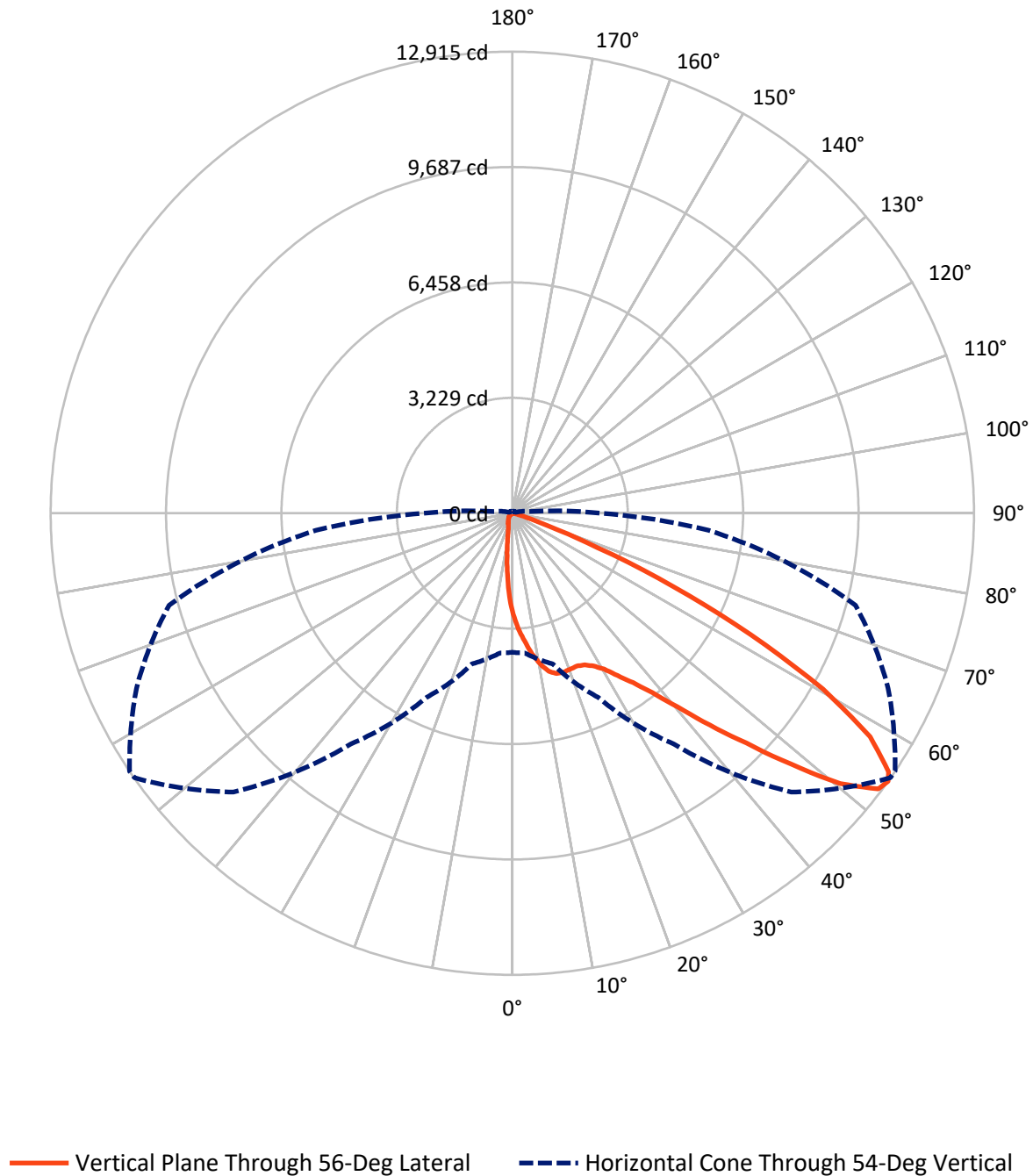
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P452310  
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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 599.4    | 0.0    | 599.4   |
|                    | % Fixture | 4.7      | 0.0    | 4.7     |
| <b>Street Side</b> | Lumens    | 12075.6  | 0.0    | 12075.6 |
|                    | % Fixture | 95.3     | 0.0    | 95.3    |
| <b>Total</b>       | Lumens    | 12675.0  | 0.0    | 12675.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 248.8   | 2.0       |
| 10°-20°   | 672.7   | 5.3       |
| 20°-30°   | 1165.1  | 9.2       |
| 30°-40°   | 2011.1  | 15.9      |
| 40°-50°   | 3422.9  | 27.0      |
| 50°-60°   | 3387.4  | 26.7      |
| 60°-70°   | 1546.1  | 12.2      |
| 70°-80°   | 198.6   | 1.6       |
| 80°-90°   | 22.4    | 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°    | 12675.0 | 100.0     |
| 0°-180°   | 12675.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P452310

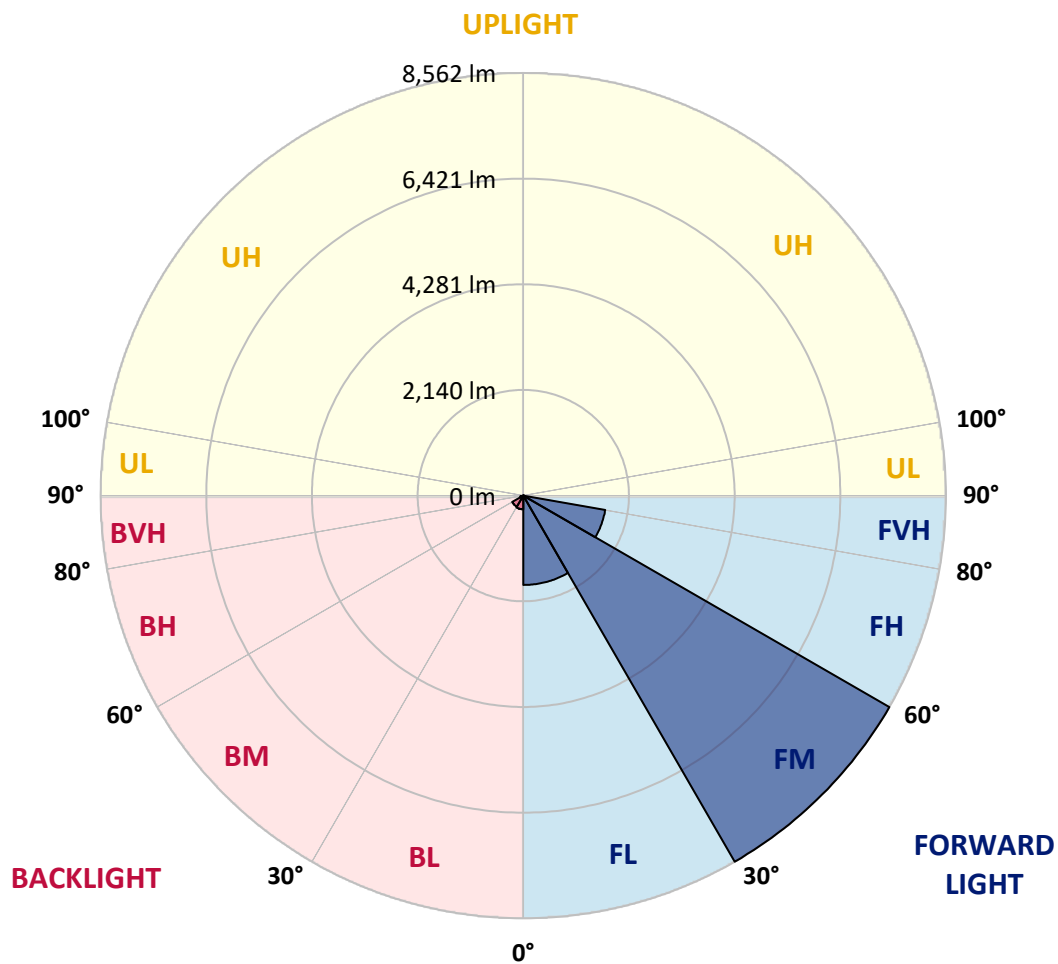
CATALOG NUMBER: GLAN-SA3B-730-U-AFL-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1809.4 | 14.3      |                         |      |         |
| FM   | (30°-60°)   | 8561.6 | 67.5      |                         |      |         |
| FH   | (60°-80°)   | 1684.6 | 13.3      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 20.0   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 277.2  | 2.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 259.8  | 2.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 60.0   | 0.5       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 2.4    | 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-G1**

Type II Short



REPORT NUMBER: P452310

CATALOG NUMBER: GLAN-SA3B-730-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 56°     | 65°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 2816.0 | 2816.0 | 2816.0 | 2816.0 | 2816.0  | 2816.0  | 2816.0  | 2816.0  | 2816.0  | 2816.0  | 2816.0 |
| 2.5°  | 3578.8 | 3554.0 | 3519.8 | 3493.3 | 3430.9  | 3341.1  | 3246.2  | 3246.2  | 3154.7  | 3027.2  | 2897.3 |
| 5°    | 4127.8 | 4111.6 | 4078.2 | 4009.8 | 3939.7  | 3814.0  | 3623.3  | 3589.9  | 3426.6  | 3195.7  | 2952.8 |
| 7.5°  | 4351.0 | 4358.7 | 4360.4 | 4342.5 | 4309.1  | 4185.1  | 3996.1  | 3973.0  | 3712.2  | 3402.7  | 3025.5 |
| 10°   | 4137.2 | 4174.9 | 4211.6 | 4286.0 | 4391.2  | 4421.1  | 4314.2  | 4290.3  | 4033.8  | 3612.2  | 3104.2 |
| 12.5° | 3819.1 | 3839.6 | 3860.2 | 3977.3 | 4188.5  | 4430.6  | 4542.6  | 4541.7  | 4324.5  | 3820.8  | 3204.3 |
| 15°   | 3671.2 | 3689.1 | 3690.8 | 3743.0 | 3926.0  | 4278.3  | 4640.1  | 4652.9  | 4608.4  | 4078.2  | 3312.0 |
| 17.5° | 3702.0 | 3716.5 | 3704.5 | 3717.4 | 3813.1  | 4110.7  | 4628.9  | 4671.7  | 4838.5  | 4325.4  | 3409.5 |
| 20°   | 3902.9 | 3931.1 | 3885.0 | 3849.0 | 3878.1  | 4066.3  | 4591.3  | 4651.2  | 5000.9  | 4566.5  | 3498.4 |
| 22.5° | 4263.8 | 4279.2 | 4221.0 | 4122.7 | 4071.4  | 4159.5  | 4581.1  | 4640.1  | 5139.5  | 4764.1  | 3549.7 |
| 25°   | 4664.9 | 4659.7 | 4595.6 | 4485.3 | 4377.5  | 4347.6  | 4648.6  | 4701.6  | 5254.1  | 4941.9  | 3565.1 |
| 27.5° | 5065.9 | 5081.3 | 4973.6 | 4836.7 | 4707.6  | 4629.8  | 4800.0  | 4839.3  | 5383.2  | 5144.6  | 3583.9 |
| 30°   | 5532.0 | 5507.2 | 5401.1 | 5244.7 | 5096.7  | 4988.1  | 5043.7  | 5054.8  | 5561.1  | 5413.1  | 3633.5 |
| 32.5° | 6138.3 | 6069.9 | 5951.0 | 5677.4 | 5571.3  | 5387.5  | 5401.1  | 5414.8  | 5777.4  | 5679.1  | 3693.4 |
| 35°   | 6960.9 | 6957.5 | 6724.9 | 6356.4 | 6098.1  | 5869.8  | 5809.9  | 5821.0  | 6104.9  | 6074.2  | 3826.0 |
| 37.5° | 7951.2 | 7964.9 | 7699.8 | 7328.7 | 6853.2  | 6490.6  | 6367.5  | 6369.2  | 6602.6  | 6619.7  | 4027.8 |
| 40°   | 8757.6 | 8793.5 | 8635.3 | 8384.8 | 7915.3  | 7348.3  | 7141.4  | 7122.6  | 7302.2  | 7280.8  | 4316.0 |
| 42.5° | 9104.8 | 9138.2 | 9197.2 | 9284.4 | 9026.1  | 8558.4  | 8070.1  | 8095.7  | 8150.5  | 8000.8  | 4639.2 |
| 45°   | 8934.6 | 8987.7 | 9219.4 | 9758.2 | 10001.0 | 9843.7  | 9261.3  | 9171.5  | 8939.8  | 8783.3  | 4964.2 |
| 47.5° | 8225.7 | 8354.9 | 8742.2 | 9639.3 | 10489.3 | 11021.2 | 10605.6 | 10486.7 | 9729.9  | 9354.5  | 5171.1 |
| 50°   | 7060.1 | 7067.8 | 7607.4 | 8754.2 | 10236.2 | 11764.3 | 11978.1 | 11889.2 | 10466.2 | 9675.2  | 5275.4 |
| 52.5° | 5118.1 | 5286.6 | 5780.8 | 7108.9 | 9139.9  | 11651.5 | 12853.0 | 12816.2 | 11225.6 | 9839.4  | 5425.9 |
| 54°   | 3890.9 | 3923.4 | 4363.0 | 5680.8 | 7880.2  | 11031.5 | 12906.8 | 12915.4 | 11602.7 | 9938.6  | 5514.9 |
| 55°   | 3189.7 | 3111.9 | 3573.7 | 4839.3 | 7020.8  | 10483.3 | 12730.7 | 12771.7 | 11772.0 | 9989.9  | 5580.7 |
| 57.5° | 1511.9 | 1512.8 | 1865.9 | 2552.6 | 4397.2  | 8140.2  | 11654.0 | 11799.4 | 11790.9 | 10078.0 | 5783.4 |
| 60°   | 765.4  | 770.5  | 848.3  | 1178.4 | 2172.1  | 5411.4  | 9635.9  | 9982.2  | 10883.5 | 10090.8 | 5850.1 |
| 62.5° | 535.3  | 529.3  | 516.5  | 567.0  | 914.2   | 2750.2  | 7173.9  | 7474.9  | 9246.8  | 9602.5  | 5638.0 |
| 65°   | 458.4  | 445.5  | 409.6  | 401.9  | 461.8   | 1095.5  | 4468.2  | 4959.0  | 7060.1  | 8314.7  | 5034.3 |
| 67.5° | 391.7  | 386.5  | 354.0  | 334.4  | 326.7   | 477.2   | 2305.5  | 2563.8  | 4825.6  | 5976.7  | 3813.1 |
| 70°   | 332.7  | 330.1  | 310.4  | 285.6  | 264.2   | 285.6   | 855.2   | 1059.5  | 2689.5  | 3217.9  | 1799.2 |
| 72.5° | 270.2  | 272.8  | 276.2  | 244.6  | 222.3   | 202.7   | 365.2   | 425.0   | 1125.4  | 1150.2  | 629.4  |
| 75°   | 236.9  | 234.3  | 234.3  | 212.9  | 185.6   | 150.5   | 201.0   | 216.4   | 344.6   | 319.8   | 146.2  |
| 77.5° | 166.8  | 160.8  | 188.1  | 175.3  | 154.8   | 106.9   | 114.6   | 121.4   | 142.8   | 122.3   | 68.4   |
| 80°   | 115.4  | 115.4  | 120.6  | 157.3  | 139.4   | 77.8    | 70.1    | 75.3    | 84.7    | 72.7    | 39.3   |
| 82.5° | 65.0   | 66.7   | 78.7   | 83.8   | 81.2    | 52.2    | 46.2    | 47.0    | 56.4    | 49.6    | 24.8   |
| 85°   | 7.7    | 12.8   | 45.3   | 44.5   | 33.4    | 23.1    | 25.7    | 26.5    | 35.1    | 30.8    | 14.5   |
| 87.5° | 0.9    | 1.7    | 9.4    | 12.0   | 8.6     | 9.4     | 9.4     | 9.4     | 12.0    | 13.7    | 10.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    |

REPORT NUMBER: P452310

CATALOG NUMBER: GLAN-SA3B-730-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2816.0 | 2816.0 | 2816.0 | 2816.0 | 2816.0 | 2816.0 | 2816.0 | 2816.0 | 2816.0 | 2816.0 | 2816.0 |
| 2.5°  | 2827.1 | 2762.1 | 2607.4 | 2427.8 | 2313.2 | 2126.8 | 1969.4 | 1855.7 | 1827.5 | 1772.7 | 1789.0 |
| 5°    | 2823.7 | 2688.6 | 2373.1 | 2039.5 | 1683.8 | 1418.7 | 1221.2 | 1065.5 | 997.1  | 951.8  | 920.1  |
| 7.5°  | 2825.4 | 2614.2 | 2108.0 | 1576.9 | 1151.9 | 891.9  | 708.9  | 614.0  | 550.7  | 524.2  | 527.6  |
| 10°   | 2830.6 | 2530.4 | 1800.1 | 1168.1 | 777.3  | 576.4  | 464.3  | 419.0  | 397.6  | 394.2  | 393.4  |
| 12.5° | 2842.5 | 2438.9 | 1505.9 | 867.1  | 543.9  | 419.0  | 376.3  | 360.9  | 354.0  | 354.0  | 351.5  |
| 15°   | 2855.4 | 2338.0 | 1261.4 | 644.8  | 419.0  | 360.0  | 340.4  | 332.7  | 328.4  | 328.4  | 327.5  |
| 17.5° | 2855.4 | 2221.7 | 1033.0 | 500.3  | 360.9  | 330.9  | 315.6  | 305.3  | 301.9  | 301.9  | 301.0  |
| 20°   | 2837.4 | 2086.6 | 830.4  | 402.8  | 327.5  | 303.6  | 288.2  | 277.1  | 272.8  | 271.1  | 270.2  |
| 22.5° | 2775.0 | 1906.1 | 661.0  | 346.3  | 300.2  | 279.6  | 260.0  | 247.1  | 243.7  | 242.0  | 242.9  |
| 25°   | 2663.8 | 1702.6 | 523.4  | 304.4  | 275.4  | 250.6  | 233.5  | 224.1  | 220.6  | 220.6  | 221.5  |
| 27.5° | 2549.2 | 1489.7 | 414.7  | 272.8  | 245.4  | 223.2  | 209.5  | 203.5  | 202.7  | 205.2  | 206.1  |
| 30°   | 2443.2 | 1275.9 | 336.1  | 247.1  | 218.9  | 200.1  | 190.7  | 189.0  | 189.0  | 189.8  | 190.7  |
| 32.5° | 2325.2 | 1088.6 | 281.3  | 224.9  | 197.5  | 181.3  | 176.2  | 176.2  | 177.9  | 177.9  | 179.6  |
| 35°   | 2250.8 | 927.8  | 247.1  | 203.5  | 181.3  | 167.6  | 164.2  | 165.0  | 167.6  | 171.0  | 172.7  |
| 37.5° | 2210.6 | 799.6  | 224.9  | 186.4  | 165.9  | 156.5  | 153.1  | 154.8  | 160.8  | 166.8  | 167.6  |
| 40°   | 2214.0 | 702.9  | 206.9  | 171.9  | 153.9  | 143.7  | 141.1  | 146.2  | 152.2  | 158.2  | 159.1  |
| 42.5° | 2251.6 | 631.1  | 189.8  | 154.8  | 143.7  | 129.1  | 128.3  | 133.4  | 136.0  | 142.0  | 142.8  |
| 45°   | 2296.1 | 578.9  | 171.9  | 136.8  | 124.9  | 112.0  | 112.9  | 117.2  | 120.6  | 130.0  | 131.7  |
| 47.5° | 2309.8 | 543.0  | 151.4  | 116.3  | 102.6  | 98.3   | 99.2   | 101.8  | 108.6  | 117.2  | 118.0  |
| 50°   | 2325.2 | 520.8  | 131.7  | 98.3   | 87.2   | 86.4   | 87.2   | 88.9   | 93.2   | 96.6   | 95.8   |
| 52.5° | 2391.0 | 519.9  | 115.4  | 85.5   | 74.4   | 76.1   | 77.0   | 76.1   | 72.7   | 67.6   | 65.8   |
| 54°   | 2452.6 | 522.5  | 107.7  | 79.5   | 68.4   | 71.0   | 70.1   | 65.8   | 57.3   | 52.2   | 49.6   |
| 55°   | 2502.2 | 525.1  | 103.5  | 75.3   | 65.0   | 65.8   | 66.7   | 58.2   | 47.0   | 41.9   | 40.2   |
| 57.5° | 2599.7 | 519.1  | 93.2   | 65.8   | 57.3   | 53.9   | 53.0   | 38.5   | 25.7   | 22.2   | 20.5   |
| 60°   | 2550.9 | 468.6  | 84.7   | 56.4   | 48.7   | 43.6   | 35.9   | 21.4   | 12.8   | 9.4    | 9.4    |
| 62.5° | 2359.4 | 397.6  | 75.3   | 46.2   | 40.2   | 33.4   | 18.8   | 12.0   | 6.0    | 3.4    | 2.6    |
| 65°   | 2110.5 | 334.4  | 67.6   | 36.8   | 31.6   | 21.4   | 10.3   | 7.7    | 2.6    | 0.0    | 0.0    |
| 67.5° | 1569.2 | 248.0  | 57.3   | 29.1   | 23.9   | 13.7   | 6.8    | 4.3    | 0.9    | 0.0    | 0.0    |
| 70°   | 726.9  | 151.4  | 48.7   | 22.2   | 17.1   | 10.3   | 5.1    | 2.6    | 0.0    | 0.0    | 0.0    |
| 72.5° | 208.7  | 94.9   | 40.2   | 16.2   | 12.0   | 8.6    | 4.3    | 1.7    | 0.9    | 0.0    | 0.0    |
| 75°   | 72.7   | 76.1   | 29.9   | 12.0   | 9.4    | 6.0    | 3.4    | 1.7    | 0.9    | 0.0    | 0.0    |
| 77.5° | 43.6   | 61.6   | 18.8   | 10.3   | 7.7    | 5.1    | 3.4    | 1.7    | 0.9    | 0.9    | 0.0    |
| 80°   | 24.8   | 41.0   | 12.0   | 8.6    | 6.8    | 4.3    | 2.6    | 1.7    | 0.9    | 0.9    | 0.0    |
| 82.5° | 13.7   | 19.7   | 9.4    | 7.7    | 6.0    | 4.3    | 2.6    | 1.7    | 0.9    | 0.9    | 0.9    |
| 85°   | 11.1   | 10.3   | 7.7    | 6.8    | 5.1    | 3.4    | 2.6    | 0.9    | 0.0    | 0.0    | 0.0    |
| 87.5° | 8.6    | 6.8    | 6.8    | 6.8    | 5.1    | 3.4    | 2.6    | 0.9    | 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    | 0.0    |

(END OF REPORT)