

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: P453160

Luminaire Tested: **GLAN-SA4A-830-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453160  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4A-830-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10324 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

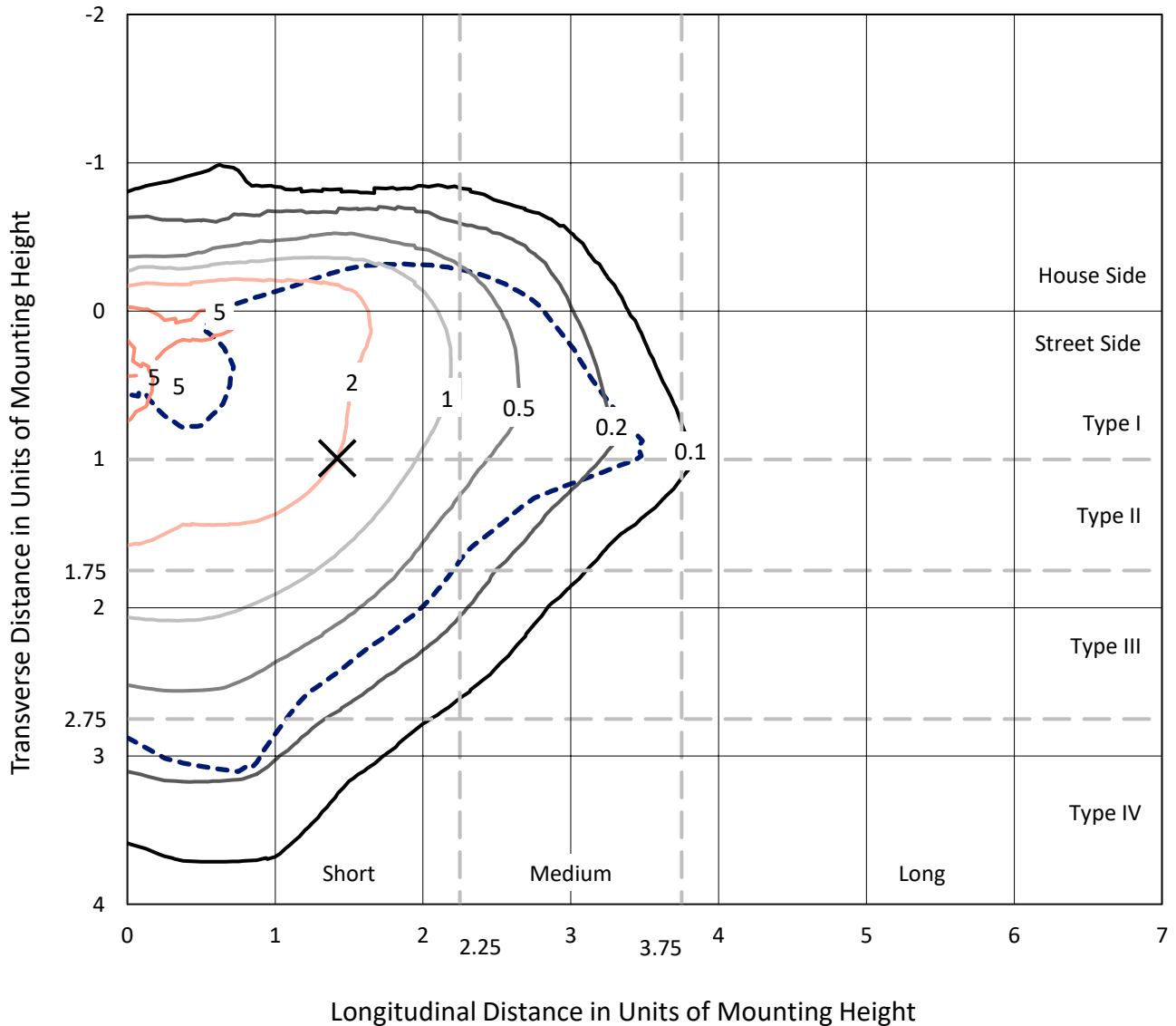
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

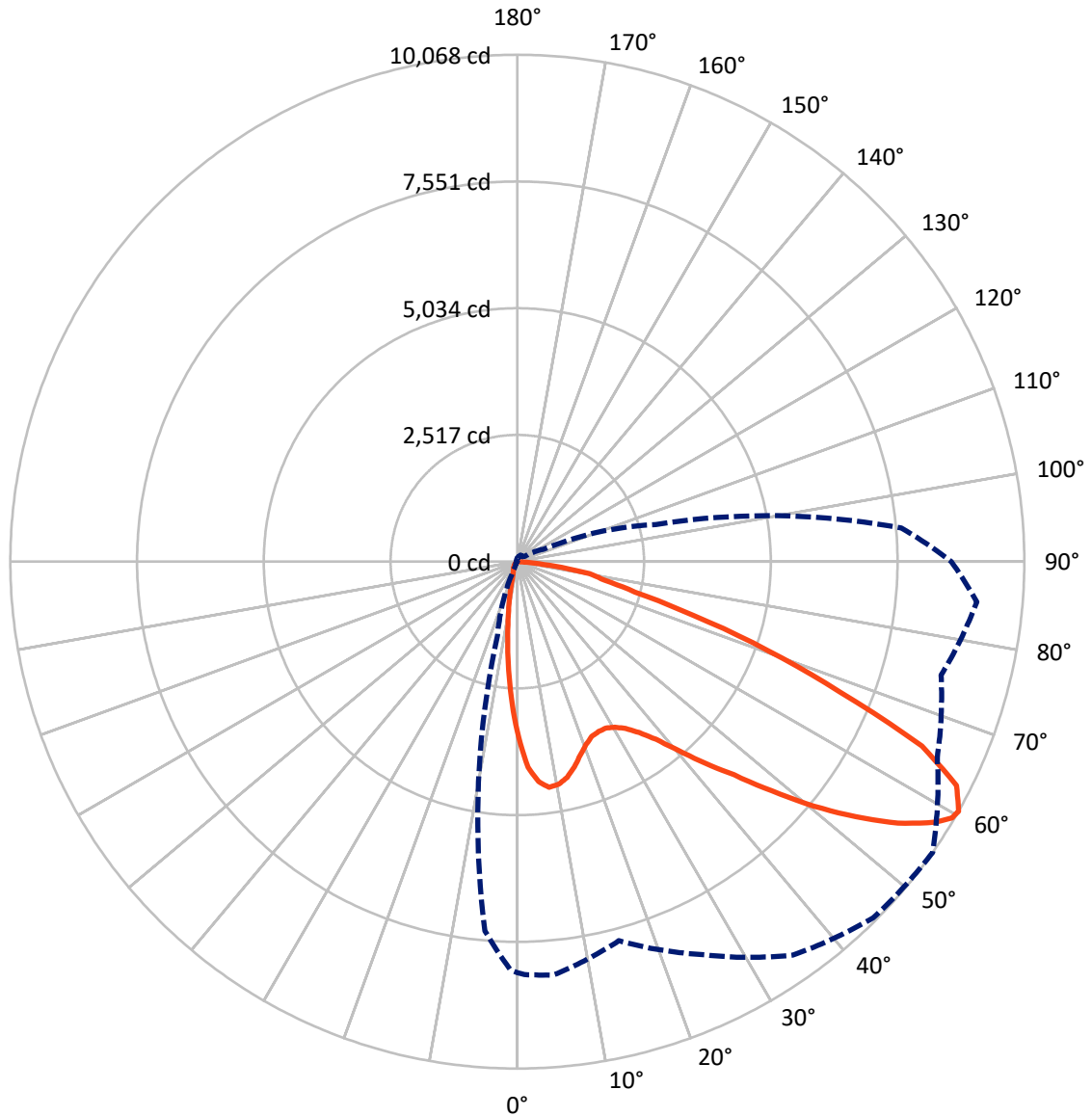
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1532.2   | 0.0    | 1532.2  |
|                    | % Fixture | 14.8     | 0.0    | 14.8    |
| <b>Street Side</b> | Lumens    | 8791.8   | 0.0    | 8791.8  |
|                    | % Fixture | 85.2     | 0.0    | 85.2    |
| <b>Total</b>       | Lumens    | 10324.0  | 0.0    | 10324.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 258.9   | 2.5       |
| 10°-20°   | 509.8   | 4.9       |
| 20°-30°   | 754.5   | 7.3       |
| 30°-40°   | 1124.7  | 10.9      |
| 40°-50°   | 1647.1  | 16.0      |
| 50°-60°   | 2378.0  | 23.0      |
| 60°-70°   | 2501.5  | 24.2      |
| 70°-80°   | 1029.0  | 10.0      |
| 80°-90°   | 120.5   | 1.2       |
| 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°    | 10324.0 | 100.0     |
| 0°-180°   | 10324.0 | 100.0     |

**Coefficient of Utilization**



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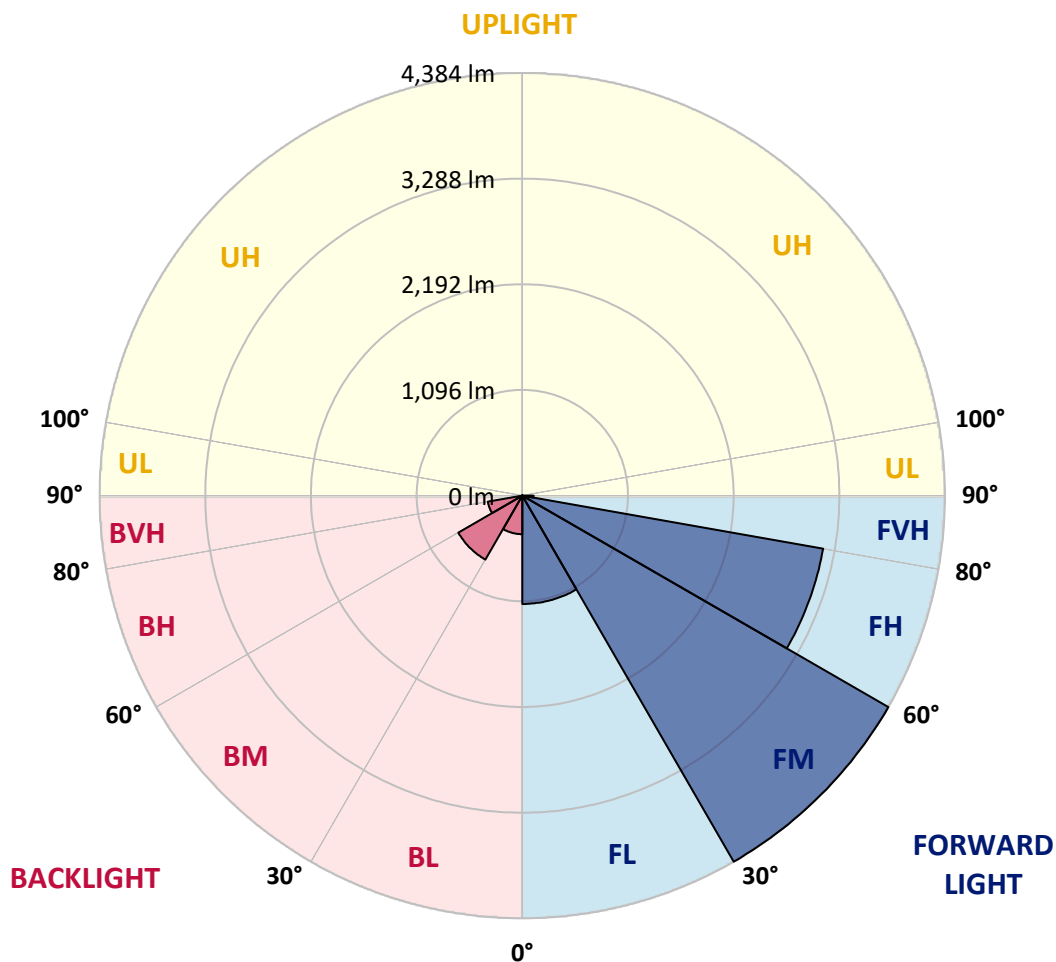
CATALOG NUMBER: GLAN-SA4A-830-U-SLL-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1123.4 | 10.9      |                         |      |         |
| FM   | (30°-60°)   | 4383.6 | 42.5      |                         |      |         |
| FH   | (60°-80°)   | 3167.9 | 30.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 117.0  | 1.1       |                         |      | G2/225  |
| BL   | (0°-30°)    | 399.8  | 3.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 766.2  | 7.4       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 362.7  | 3.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 3.5    | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|
| 0°    | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7  | 3495.7 | 3495.7 | 3495.7 |
| 2.5°  | 3819.1 | 3812.7 | 3869.2 | 3961.3 | 4054.3 | 4102.8 | 4093.3 | 4089.3  | 4012.2 | 3955.8 | 3837.4 |
| 5°    | 3811.2 | 3843.7 | 3944.7 | 4194.2 | 4383.3 | 4474.7 | 4501.7 | 4388.1  | 4237.9 | 4020.1 | 3751.6 |
| 7.5°  | 3583.1 | 3623.6 | 3788.1 | 4178.3 | 4514.4 | 4713.1 | 4705.9 | 4524.0  | 4214.0 | 3877.1 | 3494.1 |
| 10°   | 3300.2 | 3347.9 | 3541.0 | 4014.6 | 4450.9 | 4713.1 | 4727.4 | 4496.9  | 4111.5 | 3679.2 | 3276.4 |
| 12.5° | 3100.7 | 3157.2 | 3370.9 | 3862.0 | 4287.2 | 4545.4 | 4562.1 | 4395.2  | 4034.5 | 3603.0 | 3158.0 |
| 15°   | 3033.2 | 3086.4 | 3303.4 | 3784.9 | 4113.1 | 4252.2 | 4248.2 | 4230.7  | 4004.3 | 3621.2 | 3164.3 |
| 17.5° | 3149.2 | 3192.9 | 3437.7 | 3819.9 | 3950.2 | 3935.9 | 3956.6 | 4040.8  | 4010.6 | 3774.6 | 3364.6 |
| 20°   | 3448.8 | 3493.3 | 3756.3 | 3927.2 | 3825.5 | 3734.9 | 3744.4 | 3885.1  | 4069.4 | 4063.1 | 3677.7 |
| 22.5° | 3861.2 | 3936.7 | 4175.1 | 4135.4 | 3808.8 | 3610.1 | 3590.2 | 3773.0  | 4169.5 | 4395.2 | 4100.4 |
| 25°   | 4383.3 | 4459.6 | 4645.5 | 4467.5 | 3890.6 | 3580.7 | 3562.4 | 3738.8  | 4291.1 | 4719.4 | 4576.4 |
| 27.5° | 4822.0 | 4880.0 | 5065.1 | 4791.0 | 4011.4 | 3593.4 | 3563.2 | 3743.6  | 4389.7 | 4995.2 | 4977.7 |
| 30°   | 5173.2 | 5216.1 | 5325.0 | 4941.9 | 4115.5 | 3649.0 | 3614.1 | 3813.5  | 4433.4 | 5129.5 | 5302.7 |
| 32.5° | 5456.1 | 5528.4 | 5562.6 | 5103.3 | 4264.9 | 3753.9 | 3694.3 | 3947.8  | 4539.9 | 5295.6 | 5643.6 |
| 35°   | 5779.5 | 5862.9 | 5819.2 | 5257.4 | 4462.0 | 3917.6 | 3844.5 | 4165.6  | 4701.2 | 5448.9 | 6039.4 |
| 37.5° | 6189.6 | 6285.7 | 6114.9 | 5419.5 | 4670.2 | 4164.0 | 4129.8 | 4471.5  | 4945.9 | 5668.3 | 6463.7 |
| 40°   | 6613.9 | 6669.5 | 6401.7 | 5616.6 | 4926.1 | 4522.4 | 4555.0 | 4926.1  | 5266.2 | 5931.3 | 6915.1 |
| 42.5° | 6945.3 | 6997.7 | 6696.5 | 5781.9 | 5187.5 | 4947.5 | 5083.4 | 5474.4  | 5633.3 | 6200.7 | 7252.0 |
| 45°   | 7198.8 | 7243.3 | 6900.8 | 5962.3 | 5540.3 | 5563.4 | 5820.0 | 6039.4  | 6001.2 | 6365.2 | 7511.9 |
| 47.5° | 7395.8 | 7434.0 | 7058.1 | 6156.2 | 6068.8 | 6316.7 | 6709.3 | 6802.2  | 6382.7 | 6543.2 | 7747.1 |
| 50°   | 7476.9 | 7488.0 | 7107.4 | 6403.3 | 6668.7 | 7276.6 | 7685.9 | 7629.5  | 6819.7 | 6741.0 | 7997.4 |
| 52.5° | 7582.6 | 7580.2 | 7248.0 | 6638.5 | 7232.9 | 8134.9 | 8543.3 | 8415.4  | 7314.0 | 7037.4 | 8278.7 |
| 55°   | 7859.9 | 7863.1 | 7549.2 | 6972.3 | 7713.7 | 8827.8 | 9264.9 | 9171.9  | 7835.3 | 7538.1 | 8606.9 |
| 57.5° | 8196.8 | 8208.8 | 7977.5 | 7362.5 | 8173.0 | 9330.0 | 9803.6 | 9767.9  | 8540.1 | 8095.1 | 8916.8 |
| 59°   | 8240.5 | 8264.4 | 8180.2 | 7637.4 | 8445.6 | 9484.2 | 9988.0 | 10023.0 | 8917.6 | 8462.3 | 9084.5 |
| 60°   | 8161.1 | 8200.8 | 8239.0 | 7793.2 | 8605.3 | 9539.8 | 9999.1 | 10067.5 | 9201.3 | 8711.8 | 9160.8 |
| 62.5° | 7814.6 | 7877.4 | 8068.9 | 8272.3 | 8804.8 | 9366.6 | 9643.9 | 9786.9  | 9552.5 | 9367.4 | 9167.9 |
| 65°   | 7360.9 | 7393.5 | 7670.0 | 8357.4 | 8417.8 | 8557.6 | 8643.4 | 8827.0  | 9130.6 | 9620.1 | 8839.7 |
| 67.5° | 6617.1 | 6713.2 | 7051.7 | 7863.9 | 7275.8 | 7110.6 | 7089.1 | 6906.3  | 7694.6 | 9017.7 | 8030.8 |
| 70°   | 5466.4 | 5509.3 | 5926.5 | 6447.0 | 5491.1 | 5236.8 | 5338.5 | 5270.1  | 5964.7 | 7763.0 | 6463.7 |
| 72.5° | 4133.8 | 4230.7 | 4638.4 | 5139.0 | 3736.5 | 3406.7 | 3687.2 | 3661.8  | 4480.3 | 6238.8 | 4440.5 |
| 75°   | 2941.0 | 3003.8 | 3523.5 | 4021.7 | 2616.8 | 2217.1 | 2318.0 | 2412.6  | 3127.8 | 4926.1 | 2623.9 |
| 77.5° | 2020.8 | 2074.8 | 2465.0 | 2659.7 | 1908.8 | 1828.5 | 1672.7 | 1764.1  | 2049.4 | 2922.7 | 1428.0 |
| 80°   | 1219.0 | 1216.6 | 1473.3 | 1521.0 | 1329.5 | 1544.0 | 1295.3 | 1454.2  | 1238.9 | 1250.8 | 553.1  |
| 82.5° | 791.5  | 783.5  | 901.1  | 982.2  | 739.8  | 778.0  | 522.1  | 752.5   | 807.4  | 348.9  | 174.8  |
| 85°   | 354.4  | 369.5  | 433.1  | 571.4  | 324.2  | 172.4  | 106.5  | 231.2   | 344.1  | 175.6  | 0.0    |
| 87.5° | 36.6   | 28.6   | 76.3   | 139.1  | 44.5   | 4.8    | 15.9   | 7.9     | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7 |
| 2.5°  | 3782.5 | 3736.5 | 3599.0 | 3470.2 | 3359.8 | 3224.7 | 3137.3 | 2999.8 | 2916.4 | 2890.9 | 2894.9 |
| 5°    | 3630.8 | 3498.1 | 3236.6 | 3027.6 | 2794.8 | 2662.1 | 2460.2 | 2266.3 | 2161.5 | 2122.5 | 2105.0 |
| 7.5°  | 3312.9 | 3170.7 | 2855.2 | 2527.0 | 2277.5 | 2044.6 | 1894.5 | 1723.6 | 1606.8 | 1510.6 | 1493.9 |
| 10°   | 3076.9 | 2890.2 | 2499.2 | 2146.4 | 1949.3 | 1774.5 | 1624.3 | 1453.4 | 1315.9 | 1206.3 | 1176.1 |
| 12.5° | 2935.4 | 2726.5 | 2290.2 | 1994.6 | 1807.8 | 1628.2 | 1432.8 | 1234.9 | 1094.2 | 975.8  | 921.0  |
| 15°   | 2910.0 | 2667.6 | 2231.4 | 1885.7 | 1655.3 | 1438.3 | 1178.5 | 964.7  | 820.1  | 708.0  | 673.9  |
| 17.5° | 3063.4 | 2773.3 | 2222.6 | 1772.1 | 1455.8 | 1148.3 | 878.1  | 700.9  | 538.0  | 475.2  | 450.6  |
| 20°   | 3336.7 | 2960.1 | 2221.8 | 1640.2 | 1250.8 | 884.4  | 616.7  | 456.9  | 391.0  | 360.8  | 346.5  |
| 22.5° | 3709.4 | 3214.4 | 2264.0 | 1526.5 | 1037.8 | 652.4  | 440.2  | 364.0  | 325.8  | 301.2  | 295.6  |
| 25°   | 4164.8 | 3591.0 | 2367.3 | 1449.4 | 874.9  | 511.8  | 363.2  | 311.5  | 279.7  | 268.6  | 263.8  |
| 27.5° | 4569.3 | 3951.8 | 2480.9 | 1370.0 | 758.1  | 453.0  | 336.9  | 285.3  | 259.9  | 251.1  | 244.0  |
| 30°   | 4918.1 | 4279.2 | 2535.7 | 1265.1 | 664.3  | 414.8  | 341.7  | 305.1  | 271.8  | 245.5  | 233.6  |
| 32.5° | 5208.9 | 4530.3 | 2571.5 | 1169.7 | 584.9  | 339.3  | 270.2  | 236.0  | 220.9  | 211.4  | 203.4  |
| 35°   | 5572.9 | 4802.1 | 2550.0 | 1115.7 | 544.3  | 309.1  | 246.3  | 203.4  | 178.0  | 158.9  | 151.0  |
| 37.5° | 5954.3 | 5073.9 | 2512.7 | 1071.2 | 526.1  | 286.9  | 234.4  | 193.1  | 165.3  | 145.4  | 135.1  |
| 40°   | 6349.3 | 5325.8 | 2469.0 | 1029.9 | 509.4  | 272.6  | 227.3  | 184.4  | 156.5  | 135.1  | 124.0  |
| 42.5° | 6710.8 | 5571.3 | 2451.5 | 1002.9 | 482.4  | 274.9  | 221.7  | 180.4  | 147.8  | 125.6  | 116.0  |
| 45°   | 7003.3 | 5804.1 | 2475.3 | 988.5  | 453.0  | 271.0  | 223.3  | 175.6  | 140.7  | 119.2  | 109.7  |
| 47.5° | 7315.6 | 6133.1 | 2552.4 | 974.2  | 424.3  | 251.9  | 235.2  | 174.8  | 137.5  | 115.2  | 104.9  |
| 50°   | 7678.7 | 6554.3 | 2728.8 | 939.3  | 389.4  | 231.2  | 250.3  | 174.0  | 133.5  | 110.5  | 100.1  |
| 52.5° | 8162.7 | 7032.7 | 2910.8 | 878.1  | 338.5  | 211.4  | 239.2  | 171.6  | 125.6  | 104.9  | 94.6   |
| 55°   | 8597.3 | 7536.5 | 3065.0 | 805.8  | 274.2  | 182.8  | 215.4  | 161.3  | 112.0  | 95.4   | 85.8   |
| 57.5° | 8776.9 | 7821.0 | 3060.2 | 705.7  | 219.3  | 160.5  | 177.2  | 147.8  | 97.7   | 84.2   | 76.3   |
| 59°   | 8711.0 | 7785.2 | 2957.7 | 631.7  | 200.3  | 148.6  | 147.0  | 146.2  | 91.4   | 76.3   | 69.9   |
| 60°   | 8618.0 | 7654.9 | 2847.2 | 595.2  | 188.3  | 140.7  | 135.1  | 144.6  | 85.8   | 71.5   | 65.2   |
| 62.5° | 8262.0 | 7114.5 | 2480.9 | 533.2  | 172.4  | 119.2  | 108.1  | 122.4  | 76.3   | 62.0   | 56.4   |
| 65°   | 7746.3 | 6284.1 | 2100.3 | 515.7  | 167.7  | 98.5   | 89.8   | 87.4   | 65.2   | 52.4   | 47.7   |
| 67.5° | 6740.2 | 5317.8 | 1701.4 | 503.8  | 169.3  | 82.6   | 78.7   | 66.0   | 54.0   | 43.7   | 40.5   |
| 70°   | 5396.5 | 4146.5 | 1393.0 | 490.3  | 170.9  | 67.5   | 66.0   | 52.4   | 43.7   | 36.6   | 33.4   |
| 72.5° | 3278.7 | 2457.9 | 1096.6 | 425.9  | 166.1  | 54.0   | 58.8   | 39.7   | 31.8   | 26.2   | 24.6   |
| 75°   | 2027.2 | 1682.3 | 680.2  | 331.4  | 109.7  | 39.7   | 41.3   | 24.6   | 21.5   | 16.7   | 16.7   |
| 77.5° | 1174.5 | 1062.5 | 243.2  | 119.2  | 48.5   | 23.8   | 18.3   | 12.7   | 11.9   | 7.2    | 7.2    |
| 80°   | 487.1  | 390.2  | 84.2   | 40.5   | 26.2   | 11.1   | 4.0    | 0.8    | 0.0    | 0.0    | 0.0    |
| 82.5° | 142.2  | 126.3  | 23.0   | 18.3   | 7.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 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    | 0.0    |





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 CATALOG NUMBER: GLAN-SA4A-830-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7 |
| 2.5°  | 2827.4 | 2801.2 | 2789.2 | 2829.8 | 2792.4 | 2840.1 | 2803.5 | 2819.4 | 2866.3 | 2887.0 | 2940.2 |
| 5°    | 2116.2 | 2089.1 | 2076.4 | 2137.6 | 2134.4 | 2164.6 | 2161.5 | 2189.3 | 2213.1 | 2159.9 | 2214.7 |
| 7.5°  | 1474.1 | 1455.8 | 1486.0 | 1533.7 | 1584.5 | 1567.9 | 1567.9 | 1530.5 | 1543.2 | 1535.3 | 1532.9 |
| 10°   | 1121.3 | 1058.5 | 1042.6 | 1041.0 | 1060.1 | 1064.0 | 1042.6 | 990.9  | 1010.0 | 1015.6 | 1048.9 |
| 12.5° | 882.1  | 833.6  | 759.7  | 726.3  | 717.6  | 724.7  | 654.0  | 608.7  | 630.2  | 617.4  | 650.0  |
| 15°   | 632.5  | 592.8  | 549.1  | 511.8  | 501.4  | 487.1  | 410.0  | 356.0  | 349.6  | 352.0  | 357.6  |
| 17.5° | 451.4  | 424.3  | 424.3  | 384.6  | 363.2  | 320.2  | 281.3  | 257.5  | 255.1  | 257.5  | 261.4  |
| 20°   | 333.0  | 318.7  | 317.1  | 306.7  | 282.9  | 254.3  | 227.3  | 222.5  | 220.9  | 224.9  | 226.5  |
| 22.5° | 286.9  | 271.8  | 259.1  | 258.3  | 236.0  | 212.2  | 199.5  | 193.1  | 193.9  | 195.5  | 199.5  |
| 25°   | 256.7  | 240.8  | 227.3  | 219.3  | 203.4  | 186.7  | 174.8  | 171.6  | 171.6  | 174.0  | 174.8  |
| 27.5° | 235.2  | 215.4  | 203.4  | 192.3  | 178.0  | 163.7  | 153.4  | 151.0  | 149.4  | 151.0  | 155.0  |
| 30°   | 220.1  | 200.3  | 185.2  | 168.5  | 157.3  | 143.8  | 135.1  | 131.9  | 131.1  | 131.9  | 135.1  |
| 32.5° | 188.3  | 176.4  | 164.5  | 149.4  | 135.9  | 127.1  | 117.6  | 112.0  | 112.0  | 113.6  | 116.8  |
| 35°   | 142.2  | 135.9  | 135.1  | 131.1  | 120.0  | 110.5  | 99.3   | 93.8   | 93.8   | 96.9   | 98.5   |
| 37.5° | 125.6  | 113.6  | 112.0  | 110.5  | 105.7  | 93.0   | 82.6   | 77.9   | 77.1   | 79.5   | 82.6   |
| 40°   | 114.4  | 100.9  | 93.8   | 92.2   | 93.0   | 78.7   | 67.5   | 62.8   | 62.8   | 63.6   | 66.8   |
| 42.5° | 105.7  | 89.8   | 77.1   | 75.5   | 78.7   | 66.0   | 54.8   | 50.1   | 50.1   | 50.1   | 54.0   |
| 45°   | 98.5   | 80.3   | 65.2   | 57.2   | 62.0   | 54.0   | 44.5   | 39.7   | 38.1   | 39.7   | 41.3   |
| 47.5° | 93.8   | 73.1   | 57.2   | 46.1   | 46.1   | 42.9   | 35.8   | 30.2   | 28.6   | 29.4   | 31.8   |
| 50°   | 89.8   | 66.8   | 48.5   | 37.3   | 33.4   | 34.2   | 27.0   | 23.0   | 21.5   | 21.5   | 23.8   |
| 52.5° | 83.4   | 60.4   | 42.1   | 31.8   | 25.4   | 23.0   | 19.9   | 16.7   | 15.9   | 16.7   | 18.3   |
| 55°   | 75.5   | 54.8   | 36.6   | 26.2   | 19.9   | 15.9   | 14.3   | 11.9   | 11.1   | 11.9   | 14.3   |
| 57.5° | 66.8   | 46.1   | 29.4   | 20.7   | 13.5   | 10.3   | 9.5    | 7.9    | 6.4    | 7.2    | 8.7    |
| 59°   | 61.2   | 41.3   | 25.4   | 16.7   | 10.3   | 7.2    | 7.2    | 5.6    | 4.0    | 4.8    | 7.2    |
| 60°   | 58.8   | 38.1   | 21.5   | 14.3   | 8.7    | 5.6    | 5.6    | 4.0    | 2.4    | 3.2    | 5.6    |
| 62.5° | 50.1   | 31.8   | 16.7   | 8.7    | 4.0    | 0.8    | 2.4    | 0.8    | 0.0    | 0.8    | 2.4    |
| 65°   | 42.1   | 25.4   | 11.1   | 4.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    |
| 67.5° | 35.0   | 19.1   | 5.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 27.8   | 12.7   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 19.1   | 7.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 11.9   | 2.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 4.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 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    | 0.0    |



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|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 359°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7 | 3495.7 |
| 2.5°  | 2943.4 | 3057.0 | 3127.0 | 3258.9 | 3394.0 | 3498.1 | 3628.4 | 3745.2 | 3793.7 | 3819.1 |
| 5°    | 2270.3 | 2428.5 | 2562.8 | 2763.8 | 2950.5 | 3177.8 | 3408.3 | 3680.0 | 3784.1 | 3811.2 |
| 7.5°  | 1593.3 | 1754.6 | 1895.2 | 2128.1 | 2394.3 | 2698.6 | 3043.5 | 3388.4 | 3540.2 | 3583.1 |
| 10°   | 1150.7 | 1323.1 | 1494.7 | 1727.6 | 1976.3 | 2306.1 | 2665.3 | 3092.0 | 3266.8 | 3300.2 |
| 12.5° | 726.3  | 911.5  | 1190.4 | 1478.1 | 1741.1 | 2006.5 | 2382.4 | 2846.4 | 3039.5 | 3100.7 |
| 15°   | 421.2  | 559.4  | 770.0  | 1145.1 | 1479.6 | 1830.9 | 2240.9 | 2754.3 | 2970.4 | 3033.2 |
| 17.5° | 282.1  | 329.8  | 474.4  | 761.3  | 1203.1 | 1668.8 | 2205.2 | 2829.8 | 3068.9 | 3149.2 |
| 20°   | 237.6  | 259.1  | 309.9  | 464.1  | 926.6  | 1524.1 | 2214.7 | 3034.8 | 3348.7 | 3448.8 |
| 22.5° | 209.0  | 228.9  | 261.4  | 333.8  | 646.8  | 1344.6 | 2260.0 | 3328.0 | 3733.3 | 3861.2 |
| 25°   | 184.4  | 204.2  | 232.8  | 276.5  | 434.7  | 1137.1 | 2359.3 | 3757.1 | 4242.7 | 4383.3 |
| 27.5° | 163.7  | 182.0  | 206.6  | 244.0  | 334.5  | 905.9  | 2447.5 | 4175.1 | 4707.5 | 4822.0 |
| 30°   | 144.6  | 159.7  | 183.6  | 212.2  | 278.1  | 698.5  | 2492.0 | 4540.6 | 5046.0 | 5173.2 |
| 32.5° | 125.6  | 139.9  | 162.9  | 185.9  | 228.9  | 532.4  | 2461.0 | 4809.2 | 5375.0 | 5456.1 |
| 35°   | 107.3  | 122.4  | 141.4  | 162.9  | 197.9  | 429.9  | 2306.1 | 5111.2 | 5715.9 | 5779.5 |
| 37.5° | 92.2   | 104.9  | 124.8  | 141.4  | 178.8  | 344.1  | 2118.5 | 5383.0 | 6098.2 | 6189.6 |
| 40°   | 77.9   | 90.6   | 110.5  | 125.6  | 164.5  | 271.0  | 1949.3 | 5684.9 | 6501.1 | 6613.9 |
| 42.5° | 63.6   | 78.7   | 96.2   | 120.8  | 141.4  | 206.6  | 1744.3 | 5929.7 | 6803.8 | 6945.3 |
| 45°   | 50.9   | 67.5   | 86.6   | 120.0  | 123.2  | 157.3  | 1546.4 | 6120.4 | 7071.6 | 7198.8 |
| 47.5° | 40.5   | 57.2   | 83.4   | 112.0  | 100.9  | 124.8  | 1433.6 | 6319.9 | 7294.1 | 7395.8 |
| 50°   | 32.6   | 47.7   | 87.4   | 98.5   | 84.2   | 105.7  | 1430.4 | 6542.4 | 7409.3 | 7476.9 |
| 52.5° | 26.2   | 38.9   | 73.9   | 75.5   | 71.5   | 93.0   | 1516.2 | 6792.7 | 7527.0 | 7582.6 |
| 55°   | 22.3   | 32.6   | 48.5   | 55.6   | 64.4   | 84.2   | 1580.6 | 7178.1 | 7807.5 | 7859.9 |
| 57.5° | 17.5   | 27.8   | 37.3   | 44.5   | 57.2   | 77.1   | 1589.3 | 7475.3 | 8162.7 | 8196.8 |
| 59°   | 15.1   | 23.8   | 33.4   | 39.7   | 52.4   | 72.3   | 1553.5 | 7493.6 | 8185.7 | 8240.5 |
| 60°   | 12.7   | 21.5   | 29.4   | 37.3   | 48.5   | 68.3   | 1514.6 | 7360.9 | 8099.9 | 8161.1 |
| 62.5° | 9.5    | 16.7   | 21.5   | 30.2   | 39.7   | 58.8   | 1330.2 | 6897.6 | 7771.7 | 7814.6 |
| 65°   | 6.4    | 11.9   | 15.9   | 22.3   | 31.0   | 50.9   | 1083.9 | 6296.8 | 7264.7 | 7360.9 |
| 67.5° | 4.0    | 8.7    | 12.7   | 16.7   | 25.4   | 42.9   | 772.4  | 5399.7 | 6555.1 | 6617.1 |
| 70°   | 2.4    | 5.6    | 9.5    | 13.5   | 19.9   | 34.2   | 458.5  | 4268.1 | 5453.7 | 5466.4 |
| 72.5° | 1.6    | 4.0    | 6.4    | 9.5    | 15.9   | 31.0   | 222.5  | 2782.1 | 3982.0 | 4133.8 |
| 75°   | 0.8    | 2.4    | 4.0    | 7.2    | 12.7   | 25.4   | 106.5  | 1858.7 | 2897.3 | 2941.0 |
| 77.5° | 0.0    | 0.8    | 2.4    | 4.8    | 9.5    | 19.9   | 62.0   | 1220.6 | 1975.5 | 2020.8 |
| 80°   | 0.0    | 0.0    | 1.6    | 4.0    | 7.2    | 12.7   | 37.3   | 720.0  | 1196.7 | 1219.0 |
| 82.5° | 0.0    | 0.0    | 0.8    | 3.2    | 4.8    | 9.5    | 19.1   | 316.3  | 783.5  | 791.5  |
| 85°   | 0.0    | 0.0    | 0.8    | 3.2    | 4.0    | 6.4    | 7.2    | 42.9   | 348.1  | 354.4  |
| 87.5° | 0.0    | 0.0    | 0.8    | 4.0    | 4.0    | 4.0    | 4.0    | 2.4    | 29.4   | 36.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)