

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: McGRAW-EDISON

Report Number: P527949

Luminaire Tested: **GALN-SA3A-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527949  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-730-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6873 lumens  
Efficiency: N/A  
Efficacy: 73.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

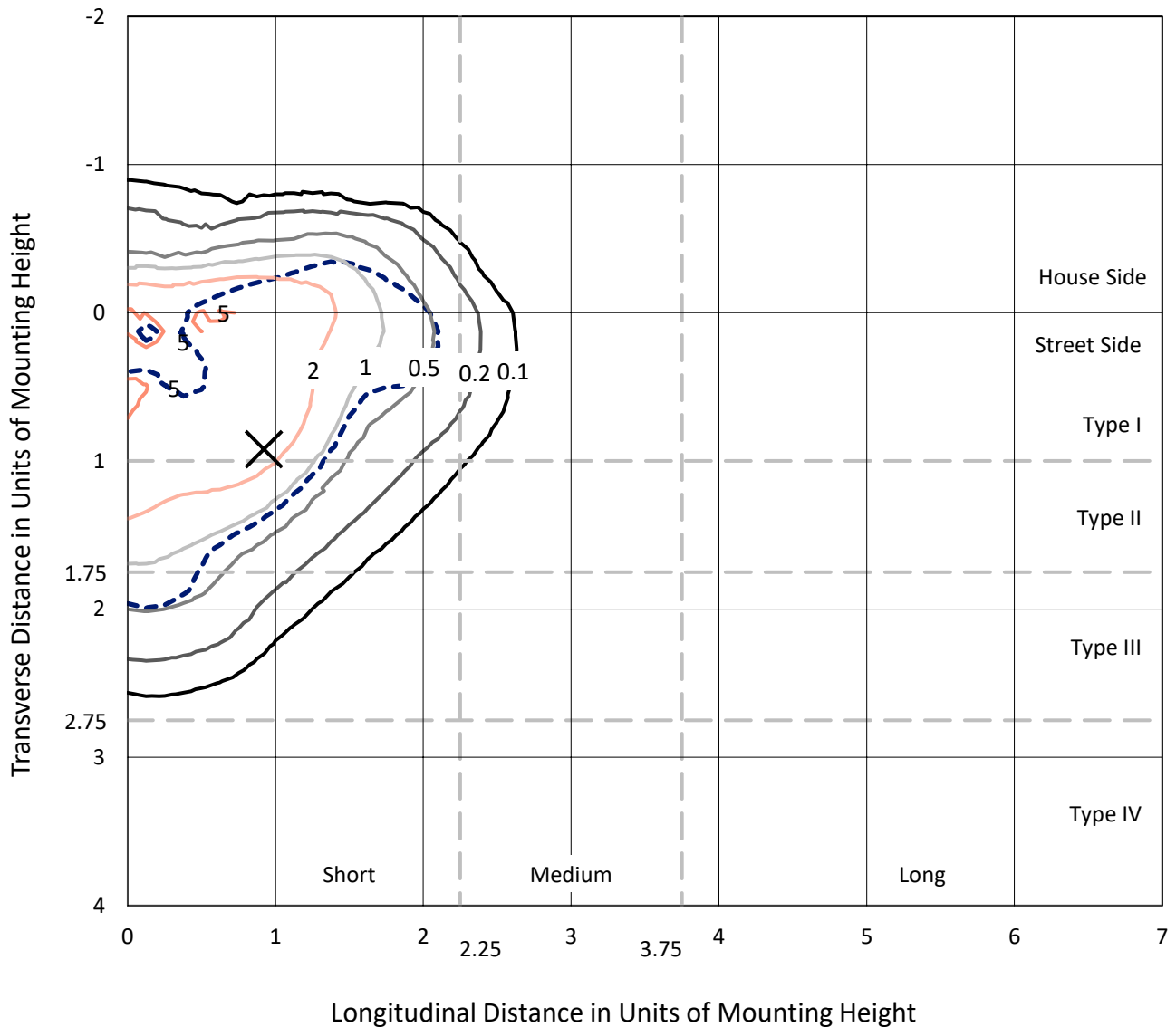
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

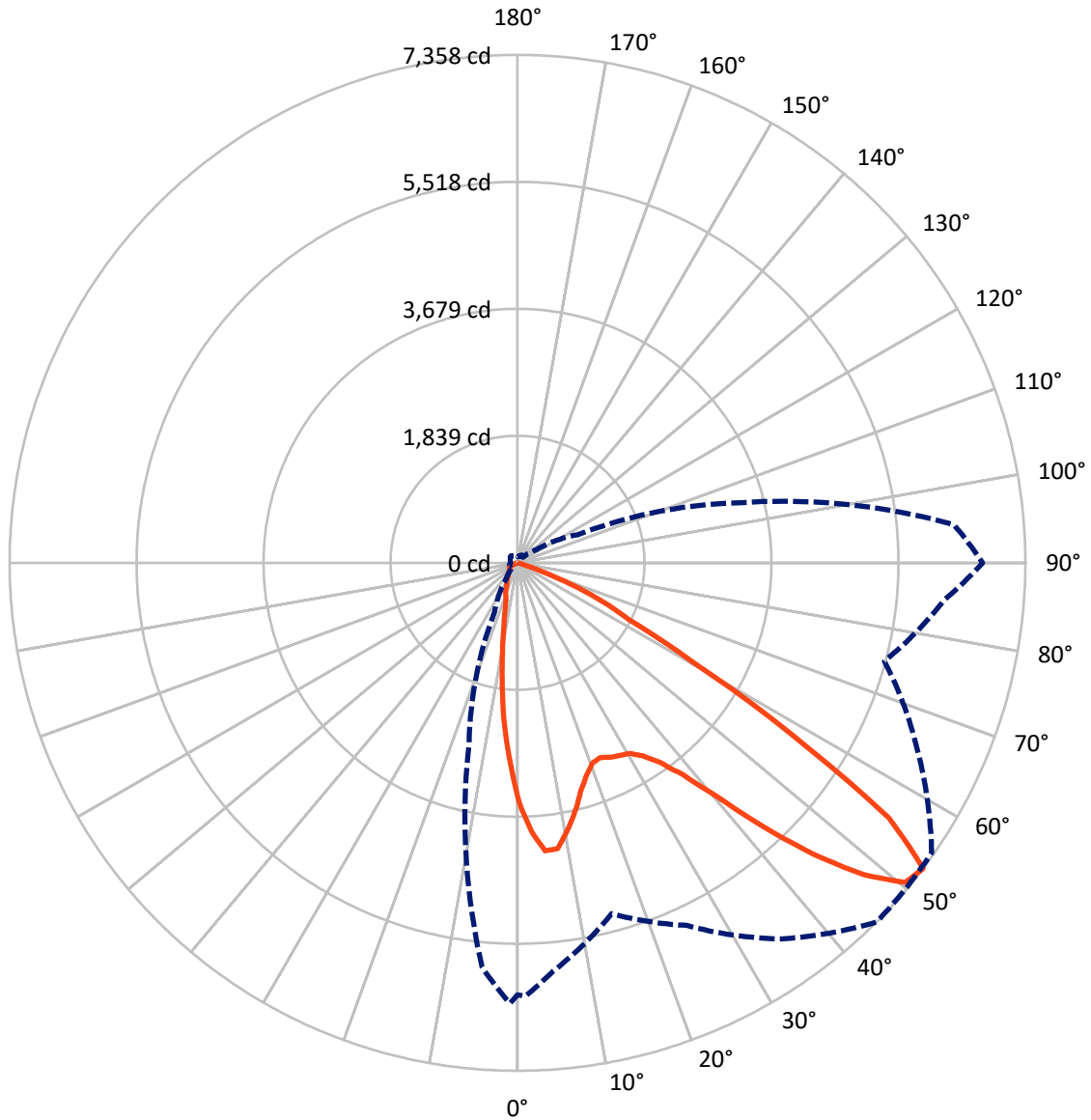
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 52.5-Deg Vertical

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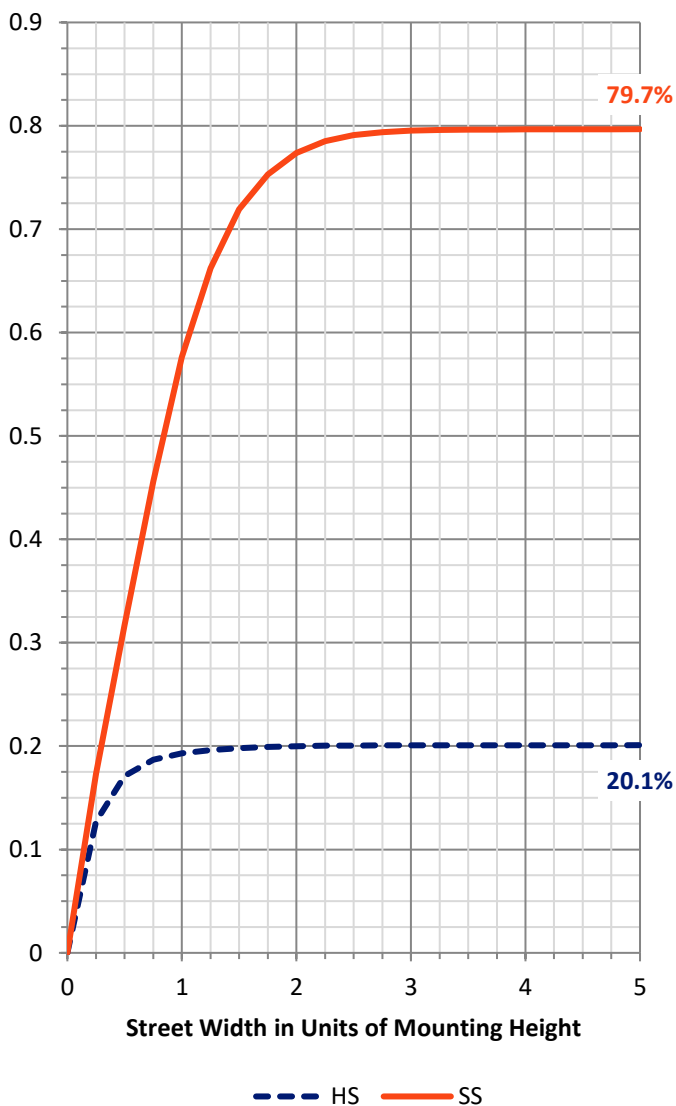
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1394.9   | 0.0    | 1394.9 |
|                    | % Fixture | 20.3     | 0.0    | 20.3   |
| <b>Street Side</b> | Lumens    | 5478.1   | 0.0    | 5478.1 |
|                    | % Fixture | 79.7     | 0.0    | 79.7   |
| <b>Total</b>       | Lumens    | 6873.0   | 0.0    | 6873.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 254.2  | 3.7       |
| 10°-20°   | 501.4  | 7.3       |
| 20°-30°   | 763.1  | 11.1      |
| 30°-40°   | 1140.5 | 16.6      |
| 40°-50°   | 1624.2 | 23.6      |
| 50°-60°   | 1746.0 | 25.4      |
| 60°-70°   | 773.7  | 11.3      |
| 70°-80°   | 62.6   | 0.9       |
| 80°-90°   | 7.3    | 0.1       |
| 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°    | 6873.0 | 100.0     |
| 0°-180°   | 6873.0 | 100.0     |

**Coefficient of Utilization**

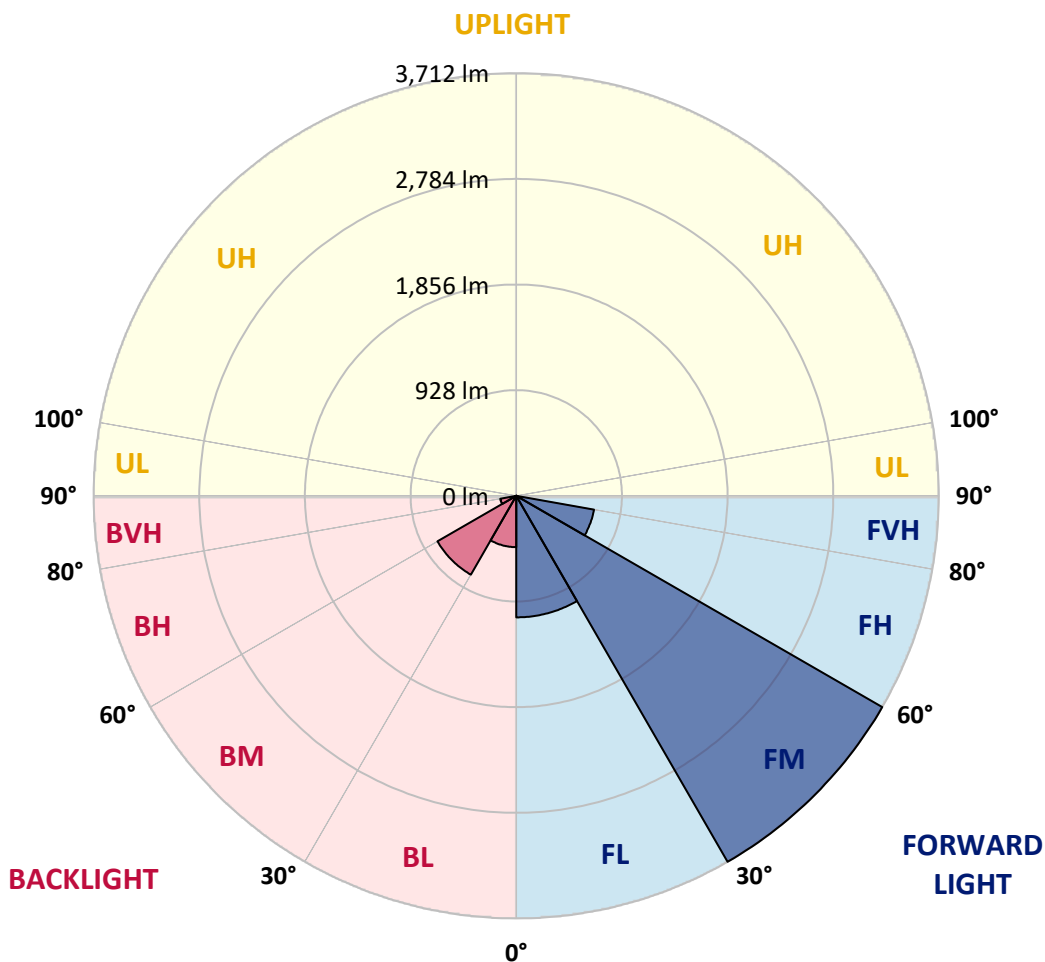


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1067.5 | 15.5      |                         |      |         |
| FM (30°-60°)   | 3711.6 | 54.0      |                         |      |         |
| FH (60°-80°)   | 693.6  | 10.1      |                         |      | G1/1800 |
| FVH (80°-90°)  | 5.4    | 0.1       |                         |      | G0/10   |
| BL (0°-30°)    | 451.2  | 6.6       | B1/500                  |      |         |
| BM (30°-60°)   | 799.1  | 11.6      | B1/1000                 |      |         |
| BH (60°-80°)   | 142.7  | 2.1       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.9    | 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 III Short





REPORT NUMBER: P527949

CATALOG NUMBER: GALN-SA3A-730-U-SLL-GRSBK

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 |
| 2.5°  | 3687.7 | 3698.5 | 3758.0 | 3832.3 | 3871.5 | 3960.8 | 3898.6 | 3914.8 | 3881.0 | 3762.0 | 3668.8 |
| 5°    | 3575.5 | 3574.1 | 3649.8 | 3833.7 | 4008.1 | 4185.2 | 4190.6 | 4095.9 | 3929.7 | 3747.2 | 3486.3 |
| 7.5°  | 3237.6 | 3290.3 | 3368.7 | 3662.0 | 3985.1 | 4117.6 | 4181.1 | 4070.3 | 3814.8 | 3553.9 | 3271.3 |
| 10°   | 2982.1 | 3009.1 | 3141.6 | 3495.7 | 3732.3 | 3909.4 | 3948.6 | 3885.1 | 3689.1 | 3363.3 | 3046.9 |
| 12.5° | 2834.7 | 2848.2 | 3003.7 | 3301.1 | 3551.2 | 3682.3 | 3701.2 | 3731.0 | 3590.4 | 3284.9 | 2905.0 |
| 15°   | 2836.1 | 2846.9 | 3056.4 | 3305.1 | 3403.8 | 3368.7 | 3430.9 | 3429.5 | 3490.3 | 3270.0 | 3024.0 |
| 17.5° | 3040.2 | 3052.4 | 3241.6 | 3364.6 | 3321.4 | 3238.9 | 3234.8 | 3297.0 | 3425.5 | 3455.2 | 3203.8 |
| 20°   | 3391.7 | 3420.0 | 3559.3 | 3552.5 | 3309.2 | 3142.9 | 3097.0 | 3144.3 | 3443.0 | 3612.0 | 3566.0 |
| 22.5° | 3864.8 | 3904.0 | 4001.3 | 3814.8 | 3364.6 | 3078.0 | 3063.2 | 3155.1 | 3559.3 | 3962.1 | 3977.0 |
| 25°   | 4413.6 | 4479.9 | 4527.2 | 4287.9 | 3562.0 | 3190.2 | 3119.9 | 3278.1 | 3716.1 | 4342.0 | 4500.1 |
| 27.5° | 4777.2 | 4846.2 | 4835.4 | 4493.4 | 3694.5 | 3220.0 | 3160.5 | 3307.8 | 3852.6 | 4432.5 | 4773.2 |
| 30°   | 5061.1 | 5103.0 | 5178.7 | 4604.2 | 3826.9 | 3303.8 | 3202.4 | 3433.6 | 3897.2 | 4589.3 | 5103.0 |
| 32.5° | 5392.3 | 5420.7 | 5426.1 | 4800.2 | 4031.1 | 3409.2 | 3332.2 | 3590.4 | 4094.6 | 4739.4 | 5395.0 |
| 35°   | 5726.2 | 5768.1 | 5680.2 | 5042.2 | 4156.8 | 3605.2 | 3548.5 | 3862.1 | 4252.8 | 4894.9 | 5716.7 |
| 37.5° | 6088.5 | 6110.1 | 5907.3 | 5142.2 | 4336.6 | 3924.3 | 3893.2 | 4155.4 | 4527.2 | 5176.0 | 6073.6 |
| 40°   | 6392.6 | 6412.9 | 6149.3 | 5265.2 | 4525.8 | 4370.4 | 4450.1 | 4715.1 | 4900.3 | 5358.5 | 6252.1 |
| 42.5° | 6561.6 | 6608.9 | 6230.4 | 5197.7 | 4905.7 | 4875.9 | 5230.1 | 5323.4 | 5332.8 | 5409.9 | 6411.6 |
| 45°   | 6607.6 | 6586.0 | 6096.6 | 5253.1 | 5238.2 | 5707.3 | 6029.0 | 6152.0 | 5762.7 | 5504.5 | 6452.1 |
| 47.5° | 6395.3 | 6423.7 | 5899.2 | 5204.4 | 5674.8 | 6337.2 | 6753.6 | 6982.0 | 6083.1 | 5422.1 | 6352.1 |
| 50°   | 6223.7 | 6187.2 | 5835.7 | 5169.3 | 5792.4 | 6634.6 | 7276.7 | 7328.1 | 6377.8 | 5523.4 | 6242.6 |
| 52.5° | 6257.5 | 6280.4 | 5937.1 | 5262.5 | 5795.2 | 6652.2 | 7357.8 | 7322.7 | 6387.2 | 5500.5 | 6203.4 |
| 55°   | 6329.1 | 6227.7 | 5893.8 | 5057.1 | 5407.2 | 6161.5 | 6530.5 | 6476.5 | 5895.2 | 5255.8 | 6107.4 |
| 57.5° | 5461.3 | 5618.1 | 5419.4 | 4515.0 | 4437.9 | 4642.1 | 4635.3 | 4801.6 | 4397.4 | 4523.1 | 5559.9 |
| 60°   | 4432.5 | 4459.6 | 4533.9 | 3862.1 | 3071.3 | 3001.0 | 2903.7 | 2798.2 | 2959.1 | 3867.5 | 5057.1 |
| 62.5° | 3898.6 | 3866.1 | 4131.1 | 3513.3 | 2168.3 | 1815.5 | 1799.2 | 1864.1 | 2283.2 | 3689.1 | 4743.5 |
| 65°   | 2833.4 | 2873.9 | 3065.9 | 2726.6 | 1627.6 | 1385.6 | 1361.3 | 1553.2 | 1847.9 | 2956.4 | 3620.1 |
| 67.5° | 1730.3 | 1808.7 | 1826.3 | 1681.6 | 1104.4 | 877.3  | 842.2  | 1016.6 | 1334.2 | 1912.8 | 2122.3 |
| 70°   | 798.9  | 893.5  | 982.8  | 917.9  | 639.4  | 360.9  | 340.7  | 427.2  | 673.2  | 1100.4 | 1126.0 |
| 72.5° | 242.0  | 243.3  | 340.7  | 355.5  | 206.8  | 81.1   | 71.6   | 94.6   | 228.5  | 363.6  | 382.6  |
| 75°   | 17.6   | 18.9   | 46.0   | 52.7   | 39.2   | 20.3   | 21.6   | 25.7   | 48.7   | 81.1   | 60.8   |
| 77.5° | 1.4    | 1.4    | 1.4    | 6.8    | 12.2   | 13.5   | 17.6   | 20.3   | 25.7   | 29.7   | 27.0   |
| 80°   | 1.4    | 0.0    | 1.4    | 5.4    | 9.5    | 13.5   | 16.2   | 18.9   | 20.3   | 23.0   | 20.3   |
| 82.5° | 0.0    | 0.0    | 0.0    | 4.1    | 9.5    | 13.5   | 14.9   | 20.3   | 23.0   | 27.0   | 23.0   |
| 85°   | 0.0    | 0.0    | 0.0    | 4.1    | 9.5    | 14.9   | 13.5   | 6.8    | 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    |



REPORT NUMBER: P527949

CATALOG NUMBER: GALN-SA3A-730-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 |
| 2.5°  | 3685.0 | 3632.3 | 3512.0 | 3451.1 | 3307.8 | 3287.6 | 3147.0 | 3124.0 | 3076.7 | 3051.0 | 2988.8 |
| 5°    | 3371.4 | 3307.8 | 3111.8 | 2946.9 | 2755.0 | 2621.1 | 2518.4 | 2425.1 | 2371.1 | 2321.0 | 2344.0 |
| 7.5°  | 3115.9 | 2930.7 | 2713.1 | 2437.3 | 2215.6 | 2072.3 | 1915.5 | 1787.1 | 1711.4 | 1660.0 | 1672.2 |
| 10°   | 2848.2 | 2727.9 | 2425.1 | 2115.6 | 1847.9 | 1746.5 | 1623.5 | 1524.8 | 1418.0 | 1326.1 | 1282.9 |
| 12.5° | 2764.4 | 2586.0 | 2206.1 | 1891.2 | 1688.4 | 1589.7 | 1449.1 | 1335.6 | 1199.0 | 1086.8 | 1047.6 |
| 15°   | 2779.3 | 2607.6 | 2146.7 | 1810.1 | 1570.8 | 1400.5 | 1232.8 | 1092.3 | 942.2  | 863.8  | 823.2  |
| 17.5° | 3021.3 | 2723.9 | 2185.9 | 1724.9 | 1407.2 | 1170.7 | 963.8  | 785.4  | 673.2  | 592.1  | 574.5  |
| 20°   | 3318.7 | 2975.3 | 2269.7 | 1662.7 | 1273.4 | 931.4  | 704.3  | 550.2  | 456.9  | 443.4  | 439.3  |
| 22.5° | 3753.9 | 3386.2 | 2449.5 | 1620.8 | 1109.8 | 725.9  | 482.6  | 400.1  | 374.4  | 371.7  | 373.1  |
| 25°   | 4362.2 | 3901.3 | 2645.5 | 1585.7 | 986.8  | 559.6  | 394.7  | 339.3  | 331.2  | 327.1  | 333.9  |
| 27.5° | 4625.8 | 4212.2 | 2749.6 | 1510.0 | 874.6  | 504.2  | 389.3  | 336.6  | 313.6  | 306.9  | 310.9  |
| 30°   | 4951.6 | 4419.0 | 2913.1 | 1380.2 | 709.7  | 415.0  | 363.6  | 366.3  | 355.5  | 321.7  | 310.9  |
| 32.5° | 5384.2 | 4677.2 | 2995.6 | 1288.3 | 634.0  | 343.4  | 266.3  | 244.7  | 273.1  | 278.5  | 287.9  |
| 35°   | 5661.3 | 4939.5 | 3037.5 | 1234.2 | 594.8  | 293.3  | 225.7  | 205.5  | 198.7  | 200.1  | 205.5  |
| 37.5° | 6176.4 | 5293.6 | 3090.2 | 1177.4 | 565.1  | 255.5  | 204.1  | 185.2  | 175.7  | 175.7  | 181.1  |
| 40°   | 6484.6 | 5574.8 | 3161.9 | 1146.3 | 535.3  | 232.5  | 185.2  | 169.0  | 160.9  | 160.9  | 163.6  |
| 42.5° | 6561.6 | 5714.0 | 3137.5 | 1135.5 | 501.5  | 227.1  | 169.0  | 156.8  | 147.3  | 146.0  | 144.6  |
| 45°   | 6699.5 | 5926.3 | 3141.6 | 1123.3 | 466.4  | 206.8  | 159.5  | 146.0  | 132.5  | 131.1  | 129.8  |
| 47.5° | 6850.9 | 6079.0 | 3149.7 | 1076.0 | 432.6  | 173.0  | 166.3  | 135.2  | 119.0  | 116.3  | 116.3  |
| 50°   | 6721.1 | 6200.7 | 3220.0 | 1028.7 | 389.3  | 140.6  | 163.6  | 127.1  | 105.4  | 101.4  | 102.7  |
| 52.5° | 6737.4 | 6344.0 | 3368.7 | 962.5  | 335.2  | 112.2  | 132.5  | 120.3  | 96.0   | 89.2   | 90.6   |
| 55°   | 6477.8 | 6192.6 | 3389.0 | 892.2  | 262.2  | 86.5   | 101.4  | 105.4  | 81.1   | 78.4   | 78.4   |
| 57.5° | 5576.2 | 5243.6 | 2990.2 | 723.2  | 173.0  | 71.6   | 73.0   | 91.9   | 70.3   | 67.6   | 68.9   |
| 60°   | 4771.8 | 4209.5 | 2406.2 | 477.2  | 108.1  | 56.8   | 52.7   | 93.3   | 62.2   | 60.8   | 64.9   |
| 62.5° | 4350.1 | 3459.2 | 1824.9 | 296.0  | 74.3   | 43.3   | 36.5   | 75.7   | 54.1   | 54.1   | 59.5   |
| 65°   | 3142.9 | 2323.7 | 1061.2 | 155.5  | 52.7   | 33.8   | 27.0   | 43.3   | 44.6   | 46.0   | 48.7   |
| 67.5° | 1946.6 | 1173.4 | 447.4  | 75.7   | 35.1   | 23.0   | 17.6   | 27.0   | 29.7   | 29.7   | 32.4   |
| 70°   | 961.1  | 467.7  | 148.7  | 43.3   | 27.0   | 18.9   | 12.2   | 14.9   | 14.9   | 13.5   | 14.9   |
| 72.5° | 297.4  | 140.6  | 37.9   | 27.0   | 18.9   | 12.2   | 6.8    | 5.4    | 2.7    | 0.0    | 1.4    |
| 75°   | 33.8   | 27.0   | 24.3   | 18.9   | 12.2   | 5.4    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 20.3   | 23.0   | 23.0   | 18.9   | 12.2   | 4.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 16.2   | 17.6   | 18.9   | 17.6   | 10.8   | 5.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 20.3   | 23.0   | 25.7   | 23.0   | 14.9   | 6.8    | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 4.1    | 1.4    | 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    |





REPORT NUMBER: P527949

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**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 |
| 2.5°  | 2963.1 | 2933.4 | 2975.3 | 2913.1 | 2911.8 | 2913.1 | 2895.5 | 2879.3 | 2905.0 | 2974.0 | 2980.7 |
| 5°    | 2261.6 | 2325.1 | 2345.4 | 2411.6 | 2375.1 | 2321.0 | 2331.8 | 2295.3 | 2384.6 | 2423.8 | 2392.7 |
| 7.5°  | 1646.5 | 1642.4 | 1779.0 | 1787.1 | 1804.6 | 1806.0 | 1803.3 | 1731.7 | 1658.7 | 1674.9 | 1723.5 |
| 10°   | 1277.4 | 1208.5 | 1274.7 | 1268.0 | 1311.2 | 1299.1 | 1316.6 | 1239.6 | 1265.3 | 1265.3 | 1296.4 |
| 12.5° | 1040.9 | 967.9  | 955.7  | 938.1  | 955.7  | 962.5  | 969.2  | 954.4  | 997.6  | 1017.9 | 1039.5 |
| 15°   | 794.9  | 754.3  | 743.5  | 709.7  | 715.1  | 734.0  | 750.2  | 757.0  | 743.5  | 774.6  | 777.3  |
| 17.5° | 577.2  | 575.9  | 582.6  | 581.3  | 575.9  | 571.8  | 570.5  | 552.9  | 547.5  | 550.2  | 561.0  |
| 20°   | 438.0  | 448.8  | 471.8  | 494.8  | 506.9  | 492.1  | 471.8  | 442.0  | 429.9  | 432.6  | 433.9  |
| 22.5° | 374.4  | 390.7  | 421.8  | 447.4  | 459.6  | 432.6  | 396.1  | 370.4  | 365.0  | 363.6  | 362.3  |
| 25°   | 339.3  | 358.2  | 381.2  | 389.3  | 388.0  | 371.7  | 344.7  | 333.9  | 331.2  | 328.5  | 316.3  |
| 27.5° | 320.4  | 327.1  | 331.2  | 340.7  | 344.7  | 333.9  | 327.1  | 310.9  | 308.2  | 308.2  | 300.1  |
| 30°   | 309.6  | 305.5  | 310.9  | 304.2  | 309.6  | 301.5  | 302.8  | 302.8  | 296.0  | 298.7  | 298.7  |
| 32.5° | 287.9  | 289.3  | 289.3  | 275.8  | 279.8  | 270.4  | 279.8  | 287.9  | 289.3  | 290.6  | 301.5  |
| 35°   | 210.9  | 235.2  | 247.4  | 247.4  | 251.4  | 244.7  | 243.3  | 233.9  | 221.7  | 209.5  | 204.1  |
| 37.5° | 185.2  | 194.7  | 210.9  | 220.3  | 227.1  | 221.7  | 209.5  | 194.7  | 187.9  | 182.5  | 177.1  |
| 40°   | 164.9  | 173.0  | 183.8  | 194.7  | 208.2  | 201.4  | 182.5  | 175.7  | 167.6  | 167.6  | 162.2  |
| 42.5° | 148.7  | 152.8  | 159.5  | 175.7  | 190.6  | 177.1  | 163.6  | 158.2  | 154.1  | 152.8  | 151.4  |
| 45°   | 133.8  | 135.2  | 141.9  | 155.5  | 173.0  | 159.5  | 146.0  | 139.2  | 140.6  | 141.9  | 140.6  |
| 47.5° | 120.3  | 123.0  | 127.1  | 143.3  | 154.1  | 147.3  | 132.5  | 128.4  | 128.4  | 128.4  | 129.8  |
| 50°   | 104.1  | 110.8  | 119.0  | 132.5  | 140.6  | 136.5  | 124.4  | 119.0  | 116.3  | 116.3  | 117.6  |
| 52.5° | 93.3   | 98.7   | 109.5  | 125.7  | 136.5  | 129.8  | 117.6  | 109.5  | 104.1  | 102.7  | 105.4  |
| 55°   | 81.1   | 90.6   | 108.1  | 120.3  | 135.2  | 128.4  | 114.9  | 105.4  | 96.0   | 94.6   | 94.6   |
| 57.5° | 73.0   | 87.9   | 104.1  | 119.0  | 131.1  | 125.7  | 114.9  | 102.7  | 90.6   | 89.2   | 89.2   |
| 60°   | 68.9   | 85.2   | 101.4  | 114.9  | 131.1  | 123.0  | 113.6  | 100.0  | 86.5   | 86.5   | 85.2   |
| 62.5° | 64.9   | 79.8   | 96.0   | 109.5  | 125.7  | 119.0  | 109.5  | 96.0   | 82.5   | 82.5   | 79.8   |
| 65°   | 54.1   | 68.9   | 79.8   | 91.9   | 109.5  | 102.7  | 93.3   | 83.8   | 73.0   | 70.3   | 71.6   |
| 67.5° | 37.9   | 47.3   | 58.1   | 70.3   | 81.1   | 78.4   | 74.3   | 67.6   | 58.1   | 56.8   | 55.4   |
| 70°   | 18.9   | 25.7   | 35.1   | 47.3   | 56.8   | 54.1   | 51.4   | 46.0   | 40.6   | 39.2   | 39.2   |
| 72.5° | 2.7    | 8.1    | 14.9   | 21.6   | 29.7   | 31.1   | 29.7   | 28.4   | 27.0   | 25.7   | 27.0   |
| 75°   | 0.0    | 0.0    | 0.0    | 5.4    | 12.2   | 14.9   | 17.6   | 20.3   | 20.3   | 17.6   | 21.6   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 6.8    | 13.5   | 17.6   | 21.6   | 18.9   | 25.7   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 8.1    | 13.5   | 18.9   | 21.6   | 18.9   | 27.0   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 9.5    | 13.5   | 17.6   | 20.3   | 18.9   | 24.3   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 4.1    | 8.1    | 5.4    | 2.7    | 1.4    | 1.4    | 4.1    |
| 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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|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 | 3484.9 |
| 2.5°  | 3018.6 | 3114.5 | 3217.3 | 3256.5 | 3378.1 | 3470.1 | 3532.2 | 3666.1 | 3686.3 | 3687.7 |
| 5°    | 2425.1 | 2473.8 | 2649.5 | 2732.0 | 2913.1 | 3053.7 | 3203.8 | 3420.0 | 3564.7 | 3575.5 |
| 7.5°  | 1723.5 | 1858.7 | 1933.1 | 2148.0 | 2371.1 | 2591.4 | 2814.4 | 3065.9 | 3233.5 | 3237.6 |
| 10°   | 1386.9 | 1474.8 | 1607.3 | 1768.1 | 1956.0 | 2180.4 | 2477.8 | 2769.8 | 2940.2 | 2982.1 |
| 12.5° | 1116.6 | 1270.7 | 1422.1 | 1588.4 | 1731.7 | 1900.6 | 2221.0 | 2610.3 | 2750.9 | 2834.7 |
| 15°   | 859.7  | 1000.3 | 1178.8 | 1373.4 | 1535.6 | 1761.4 | 2126.4 | 2571.1 | 2807.7 | 2836.1 |
| 17.5° | 634.0  | 759.7  | 924.6  | 1108.5 | 1351.8 | 1672.2 | 2142.6 | 2769.8 | 2992.9 | 3040.2 |
| 20°   | 455.6  | 528.6  | 658.3  | 871.9  | 1181.5 | 1568.1 | 2158.8 | 2971.2 | 3310.5 | 3391.7 |
| 22.5° | 360.9  | 390.7  | 475.8  | 665.1  | 990.9  | 1458.6 | 2273.7 | 3356.5 | 3747.2 | 3864.8 |
| 25°   | 313.6  | 329.8  | 370.4  | 524.5  | 870.6  | 1447.8 | 2457.6 | 3818.8 | 4328.5 | 4413.6 |
| 27.5° | 302.8  | 305.5  | 340.7  | 481.2  | 805.7  | 1376.1 | 2527.9 | 4147.3 | 4690.7 | 4777.2 |
| 30°   | 319.0  | 362.3  | 365.0  | 406.9  | 685.4  | 1234.2 | 2564.4 | 4465.0 | 4997.6 | 5061.1 |
| 32.5° | 275.8  | 262.2  | 271.7  | 315.0  | 602.9  | 1151.7 | 2633.3 | 4742.1 | 5347.7 | 5392.3 |
| 35°   | 192.0  | 201.4  | 223.0  | 273.1  | 527.2  | 1065.2 | 2650.9 | 5047.6 | 5680.2 | 5726.2 |
| 37.5° | 177.1  | 182.5  | 200.1  | 232.5  | 463.7  | 1016.6 | 2626.5 | 5270.7 | 6025.0 | 6088.5 |
| 40°   | 164.9  | 171.7  | 181.1  | 210.9  | 416.4  | 962.5  | 2592.7 | 5472.1 | 6235.8 | 6392.6 |
| 42.5° | 155.5  | 160.9  | 169.0  | 201.4  | 375.8  | 908.4  | 2545.4 | 5755.9 | 6425.1 | 6561.6 |
| 45°   | 144.6  | 152.8  | 162.2  | 196.0  | 352.8  | 871.9  | 2510.3 | 5738.4 | 6534.6 | 6607.6 |
| 47.5° | 133.8  | 147.3  | 158.2  | 182.5  | 346.1  | 854.3  | 2525.2 | 5672.1 | 6445.4 | 6395.3 |
| 50°   | 123.0  | 140.6  | 159.5  | 151.4  | 329.8  | 819.2  | 2542.7 | 5762.7 | 6233.1 | 6223.7 |
| 52.5° | 113.6  | 133.8  | 148.7  | 124.4  | 293.3  | 785.4  | 2713.1 | 5881.7 | 6383.2 | 6257.5 |
| 55°   | 100.0  | 120.3  | 119.0  | 100.0  | 237.9  | 759.7  | 2846.9 | 5884.4 | 6281.8 | 6329.1 |
| 57.5° | 90.6   | 106.8  | 93.3   | 83.8   | 175.7  | 635.3  | 2629.2 | 4934.1 | 5377.4 | 5461.3 |
| 60°   | 83.8   | 104.1  | 70.3   | 66.2   | 114.9  | 458.3  | 2295.3 | 3821.5 | 4274.4 | 4432.5 |
| 62.5° | 77.1   | 98.7   | 55.4   | 54.1   | 79.8   | 325.8  | 1887.1 | 3198.3 | 3683.6 | 3898.6 |
| 65°   | 67.6   | 70.3   | 44.6   | 41.9   | 56.8   | 175.7  | 1149.0 | 2202.1 | 2753.6 | 2833.4 |
| 67.5° | 55.4   | 54.1   | 36.5   | 33.8   | 37.9   | 85.2   | 506.9  | 1103.1 | 1596.5 | 1730.3 |
| 70°   | 44.6   | 44.6   | 31.1   | 27.0   | 27.0   | 39.2   | 132.5  | 439.3  | 721.9  | 798.9  |
| 72.5° | 32.4   | 33.8   | 24.3   | 21.6   | 20.3   | 18.9   | 21.6   | 87.9   | 189.3  | 242.0  |
| 75°   | 28.4   | 29.7   | 24.3   | 18.9   | 14.9   | 12.2   | 9.5    | 8.1    | 10.8   | 17.6   |
| 77.5° | 31.1   | 31.1   | 25.7   | 17.6   | 13.5   | 9.5    | 5.4    | 2.7    | 2.7    | 1.4    |
| 80°   | 39.2   | 40.6   | 33.8   | 23.0   | 16.2   | 10.8   | 6.8    | 2.7    | 1.4    | 1.4    |
| 82.5° | 41.9   | 46.0   | 37.9   | 28.4   | 20.3   | 12.2   | 6.8    | 1.4    | 0.0    | 0.0    |
| 85°   | 10.8   | 17.6   | 29.7   | 25.7   | 20.3   | 12.2   | 6.8    | 1.4    | 0.0    | 0.0    |
| 87.5° | 0.0    | 1.4    | 4.1    | 4.1    | 5.4    | 5.4    | 4.1    | 1.4    | 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 REPORT)