

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: P522901

Luminaire Tested: **GALN-SA9A-722-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522901  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9A-722-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30499 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

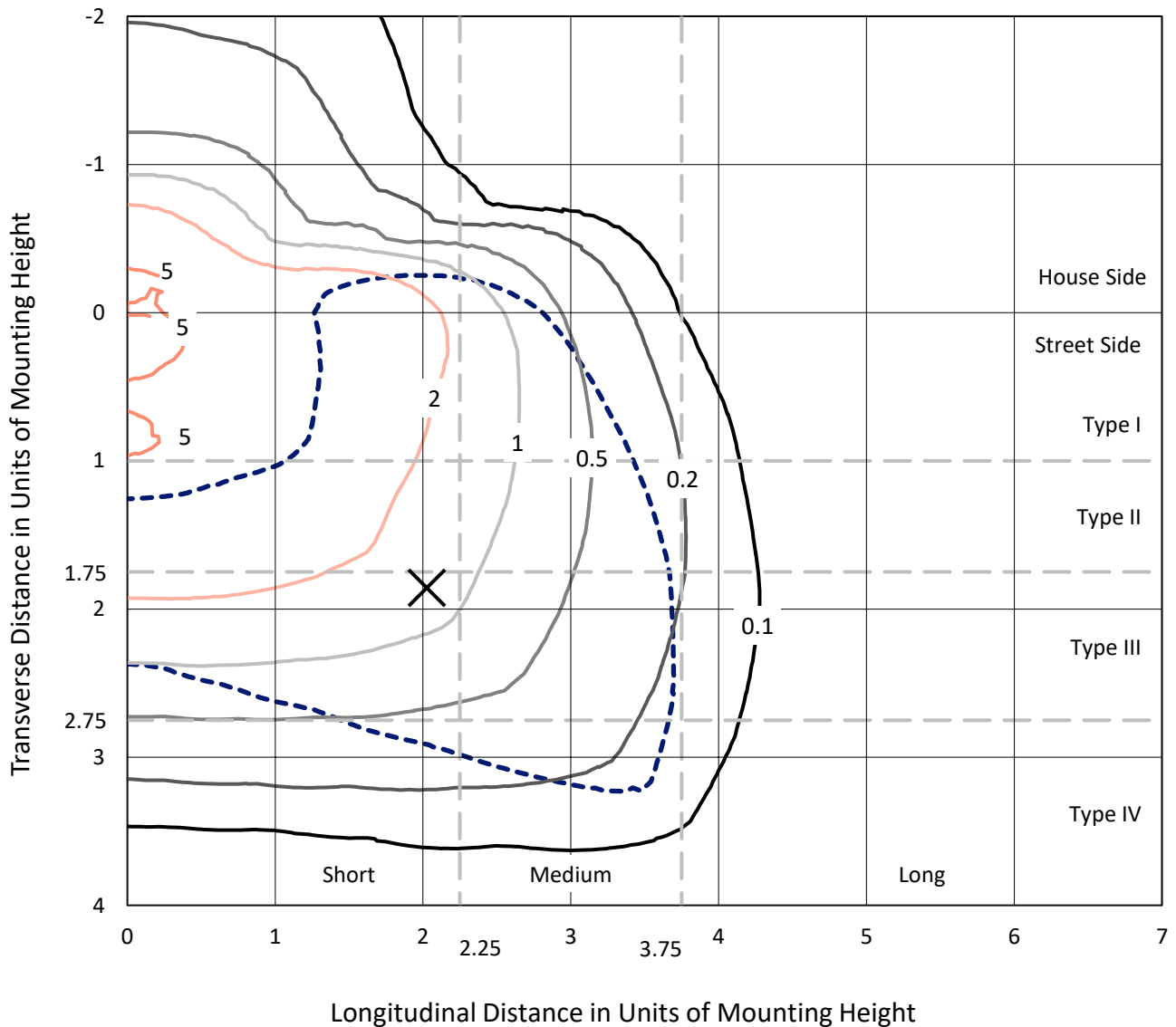
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

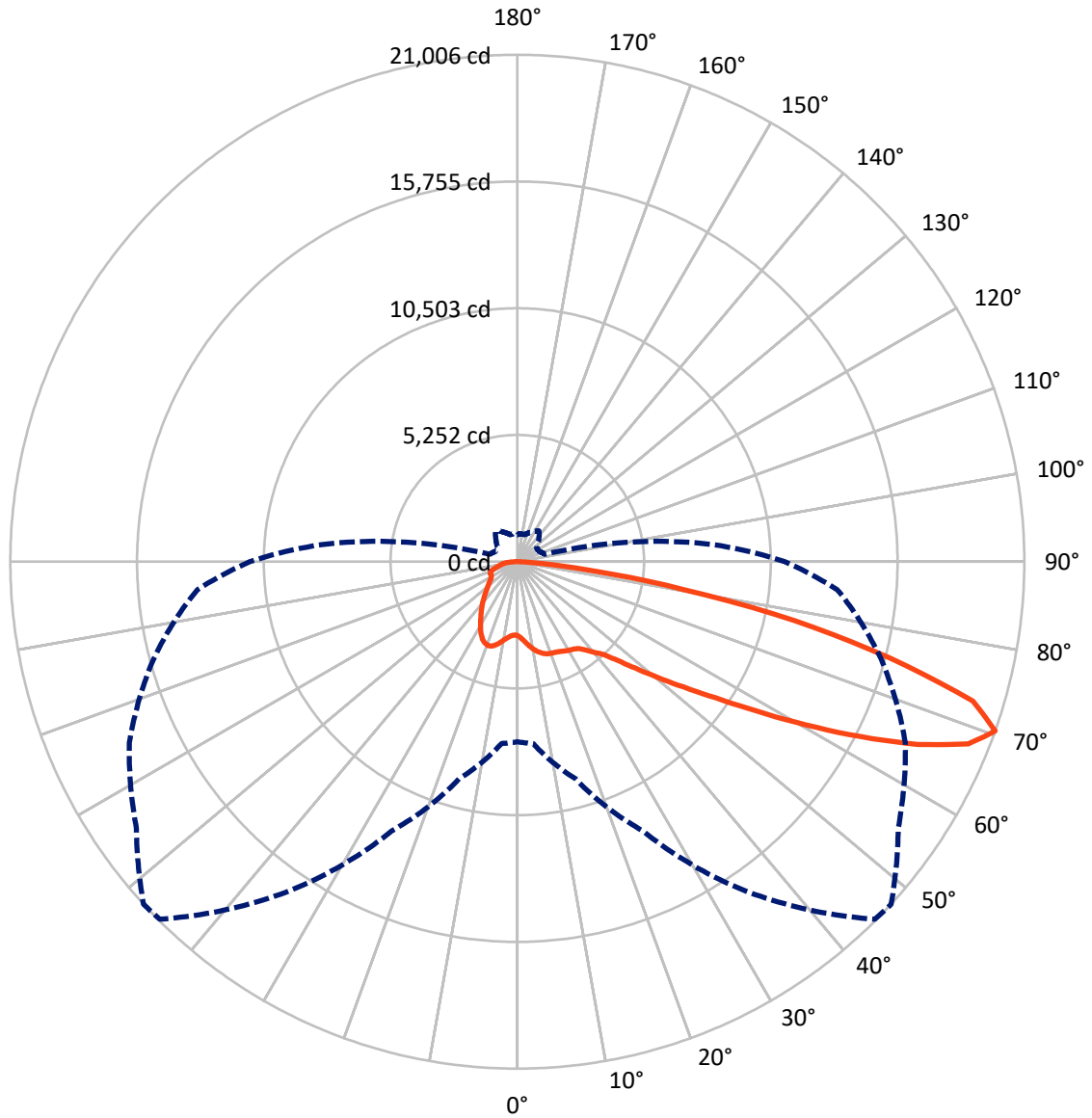
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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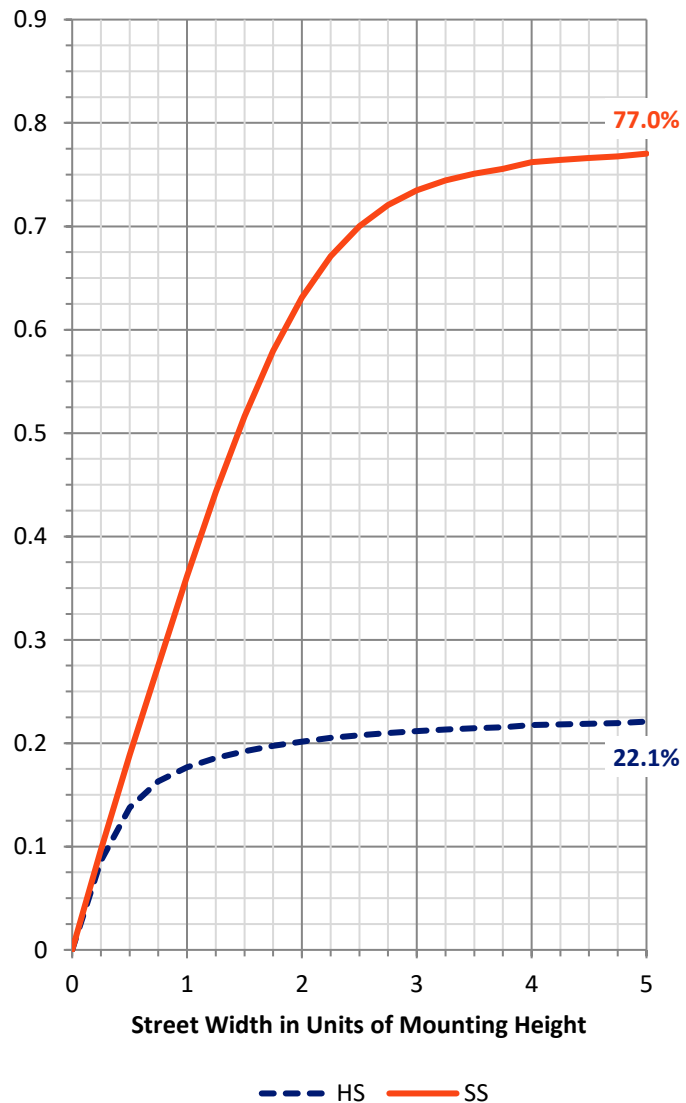
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6905.6   | 0.0    | 6905.6  |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 23593.4  | 0.0    | 23593.4 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 30499.0  | 0.0    | 30499.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 315.6   | 1.0       |
| 10°-20°   | 1055.1  | 3.5       |
| 20°-30°   | 1754.6  | 5.8       |
| 30°-40°   | 2486.9  | 8.2       |
| 40°-50°   | 3671.1  | 12.0      |
| 50°-60°   | 6358.6  | 20.8      |
| 60°-70°   | 8981.7  | 29.4      |
| 70°-80°   | 5163.1  | 16.9      |
| 80°-90°   | 712.4   | 2.3       |
| 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°    | 30499.0 | 100.0     |
| 0°-180°   | 30499.0 | 100.0     |



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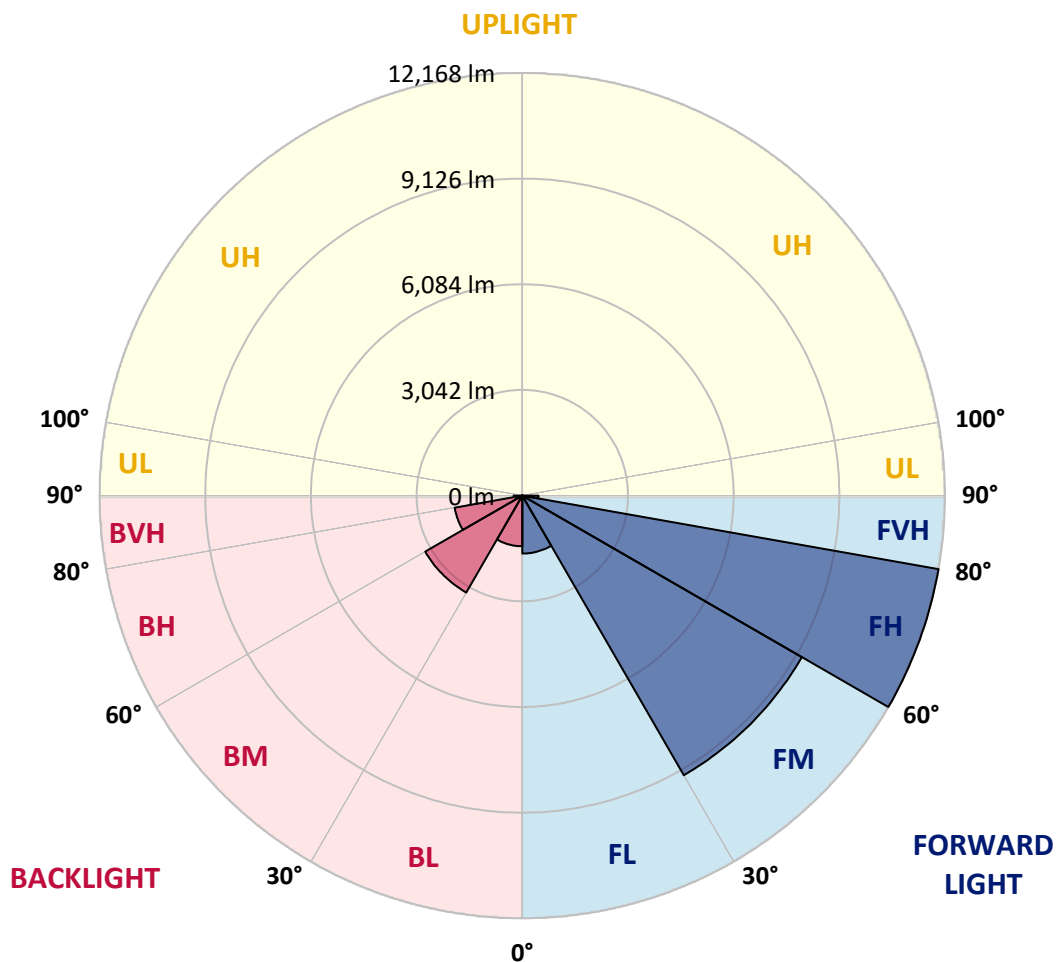
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1667.8  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 9292.5  | 30.5      |                         |      |         |
| FH   | (60°-80°)   | 12167.8 | 39.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 465.4   | 1.5       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1457.5  | 4.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3224.1  | 10.6      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1977.0  | 6.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 247.0   | 0.8       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 47.5°   | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3061.7  | 3061.7  | 3061.7  | 3061.7  | 3061.7  | 3061.7  | 3061.7  | 3061.7  | 3061.7  | 3061.7  | 3061.7  |
| 2.5°  | 3259.2  | 3247.8  | 3246.2  | 3221.7  | 3208.6  | 3184.1  | 3174.3  | 3151.5  | 3123.8  | 3096.0  | 3069.9  |
| 5°    | 3515.4  | 3515.4  | 3504.0  | 3469.7  | 3415.9  | 3360.4  | 3335.9  | 3291.9  | 3213.5  | 3149.9  | 3096.0  |
| 7.5°  | 3778.2  | 3781.5  | 3758.6  | 3708.0  | 3631.3  | 3541.6  | 3518.7  | 3453.4  | 3342.4  | 3249.4  | 3169.4  |
| 10°   | 4005.1  | 4005.1  | 3974.1  | 3905.5  | 3809.2  | 3711.3  | 3688.4  | 3615.0  | 3491.0  | 3375.1  | 3270.6  |
| 12.5° | 4178.1  | 4178.1  | 4137.3  | 4047.5  | 3943.0  | 3854.9  | 3828.8  | 3758.6  | 3642.7  | 3513.8  | 3381.6  |
| 15°   | 4290.7  | 4282.5  | 4236.8  | 4135.6  | 4034.4  | 3957.7  | 3939.8  | 3881.0  | 3774.9  | 3644.4  | 3495.9  |
| 17.5° | 4295.6  | 4292.3  | 4248.2  | 4163.4  | 4075.2  | 4023.0  | 4011.6  | 3972.4  | 3889.2  | 3765.1  | 3608.5  |
| 20°   | 4200.9  | 4207.4  | 4178.1  | 4117.7  | 4075.2  | 4052.4  | 4047.5  | 4034.4  | 3975.7  | 3859.8  | 3703.1  |
| 22.5° | 4099.7  | 4111.1  | 4083.4  | 4050.8  | 4047.5  | 4070.3  | 4073.6  | 4076.9  | 4039.3  | 3926.7  | 3783.1  |
| 25°   | 4075.2  | 4083.4  | 4055.7  | 4026.3  | 4044.2  | 4104.6  | 4117.7  | 4130.7  | 4101.4  | 4006.7  | 3877.8  |
| 27.5° | 4199.3  | 4192.7  | 4138.9  | 4075.2  | 4086.7  | 4168.3  | 4186.2  | 4200.9  | 4186.2  | 4104.6  | 3995.3  |
| 30°   | 4550.2  | 4528.9  | 4421.2  | 4235.2  | 4176.4  | 4233.5  | 4251.5  | 4292.3  | 4292.3  | 4231.9  | 4122.6  |
| 32.5° | 5137.7  | 5096.9  | 4899.4  | 4533.8  | 4329.8  | 4295.6  | 4313.5  | 4380.4  | 4414.7  | 4367.4  | 4248.2  |
| 35°   | 5850.9  | 5808.5  | 5526.1  | 5034.9  | 4610.6  | 4419.6  | 4414.7  | 4489.8  | 4581.2  | 4475.1  | 4320.0  |
| 37.5° | 6567.4  | 6523.3  | 6183.9  | 5632.2  | 5020.2  | 4680.7  | 4651.4  | 4677.5  | 4716.6  | 4522.4  | 4419.6  |
| 40°   | 7283.9  | 7231.6  | 6934.6  | 6299.7  | 5521.2  | 5026.7  | 4950.0  | 4832.5  | 4816.2  | 4677.5  | 4612.2  |
| 42.5° | 7993.8  | 7946.5  | 7796.3  | 7048.8  | 6121.8  | 5364.6  | 5247.1  | 5044.7  | 5106.7  | 5023.5  | 4966.3  |
| 45°   | 8710.3  | 8713.5  | 8553.6  | 7889.3  | 6846.5  | 5988.0  | 5829.7  | 5513.1  | 5660.0  | 5629.0  | 5661.6  |
| 47.5° | 9345.1  | 9337.0  | 9279.9  | 8705.4  | 7745.7  | 6791.0  | 6587.0  | 6219.8  | 6471.1  | 6585.3  | 6835.0  |
| 50°   | 9960.4  | 9955.5  | 9958.8  | 9630.7  | 8790.2  | 7745.7  | 7520.5  | 7135.3  | 7701.7  | 8098.3  | 8545.4  |
| 52.5° | 10841.7 | 10869.5 | 10672.0 | 10585.5 | 10060.0 | 8873.5  | 8625.4  | 8227.2  | 9155.8  | 9780.9  | 10654.0 |
| 55°   | 11726.3 | 11703.5 | 11548.4 | 11638.2 | 11388.5 | 10208.5 | 9949.0  | 9632.4  | 10774.8 | 11458.6 | 12770.8 |
| 57.5° | 12246.9 | 12255.1 | 12413.4 | 12852.4 | 13028.7 | 11873.2 | 11638.2 | 11393.4 | 12594.6 | 13079.3 | 14654.2 |
| 60°   | 12715.3 | 12752.9 | 13208.2 | 14037.3 | 14515.5 | 13918.2 | 13709.3 | 13471.0 | 14264.1 | 14456.7 | 16289.5 |
| 62.5° | 12862.2 | 12978.1 | 13772.9 | 15013.3 | 15964.7 | 16225.9 | 15966.4 | 15440.9 | 15853.8 | 15778.7 | 17397.7 |
| 65°   | 12129.4 | 12287.7 | 13712.5 | 15378.8 | 17259.0 | 18416.1 | 18251.3 | 17275.3 | 17208.4 | 16756.3 | 17578.8 |
| 67.5° | 10200.3 | 10358.6 | 12188.2 | 14611.8 | 17794.3 | 20312.5 | 20147.7 | 18613.6 | 18030.9 | 16847.7 | 16207.9 |
| 70°   | 7463.4  | 7562.9  | 9312.5  | 12302.4 | 16718.8 | 20949.0 | 21006.2 | 19266.4 | 17737.2 | 15605.7 | 13307.8 |
| 72.5° | 4300.5  | 4520.8  | 5746.5  | 8654.8  | 13658.7 | 19339.8 | 19736.4 | 17908.5 | 15879.9 | 13018.9 | 9304.3  |
| 75°   | 1849.1  | 1854.0  | 2657.0  | 4773.8  | 9250.5  | 15545.3 | 15928.8 | 14845.2 | 12470.5 | 9002.4  | 4968.0  |
| 77.5° | 879.7   | 896.0   | 1168.6  | 2131.5  | 5092.0  | 10740.5 | 11775.3 | 10487.6 | 7975.8  | 4324.9  | 1876.9  |
| 80°   | 571.2   | 582.6   | 714.8   | 1057.6  | 2497.0  | 6227.9  | 6949.3  | 6050.0  | 3518.7  | 1545.6  | 809.5   |
| 82.5° | 346.0   | 349.3   | 478.2   | 646.3   | 1374.2  | 2820.2  | 3324.5  | 2626.0  | 1501.5  | 925.4   | 476.6   |
| 85°   | 210.5   | 212.2   | 290.5   | 399.9   | 834.0   | 974.3   | 1000.4  | 992.3   | 881.3   | 605.5   | 254.6   |
| 87.5° | 101.2   | 104.5   | 150.1   | 189.3   | 328.0   | 301.9   | 285.6   | 331.3   | 416.2   | 326.4   | 109.3   |
| 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°    | 3061.7  | 3061.7  | 3061.7 | 3061.7 | 3061.7 | 3061.7 | 3061.7 | 3061.7 | 3061.7 | 3061.7 | 3061.7 |
| 2.5°  | 3058.5  | 3053.6  | 3042.1 | 3037.3 | 3034.0 | 3035.6 | 3034.0 | 3034.0 | 3035.6 | 3035.6 | 3035.6 |
| 5°    | 3073.2  | 3065.0  | 3047.0 | 3047.0 | 3056.8 | 3079.7 | 3100.9 | 3117.2 | 3135.2 | 3133.5 | 3133.5 |
| 7.5°  | 3136.8  | 3122.1  | 3100.9 | 3107.4 | 3131.9 | 3167.8 | 3205.4 | 3241.3 | 3277.2 | 3280.4 | 3278.8 |
| 10°   | 3229.8  | 3215.1  | 3192.3 | 3200.5 | 3239.6 | 3293.5 | 3340.8 | 3393.0 | 3432.2 | 3443.6 | 3440.4 |
| 12.5° | 3335.9  | 3306.5  | 3287.0 | 3309.8 | 3371.8 | 3443.6 | 3489.3 | 3528.5 | 3556.2 | 3572.6 | 3566.0 |
| 15°   | 3443.6  | 3415.9  | 3393.0 | 3440.4 | 3515.4 | 3582.4 | 3605.2 | 3611.7 | 3616.6 | 3633.0 | 3629.7 |
| 17.5° | 3548.1  | 3510.5  | 3502.4 | 3564.4 | 3636.2 | 3665.6 | 3652.5 | 3624.8 | 3603.6 | 3616.6 | 3615.0 |
| 20°   | 3641.1  | 3611.7  | 3608.5 | 3670.5 | 3698.2 | 3670.5 | 3615.0 | 3566.0 | 3528.5 | 3531.8 | 3530.1 |
| 22.5° | 3729.2  | 3706.4  | 3709.7 | 3735.8 | 3691.7 | 3597.0 | 3505.7 | 3438.7 | 3397.9 | 3406.1 | 3411.0 |
| 25°   | 3827.2  | 3804.3  | 3812.5 | 3770.0 | 3624.8 | 3460.0 | 3327.8 | 3270.6 | 3254.3 | 3270.6 | 3282.1 |
| 27.5° | 3954.5  | 3939.8  | 3934.9 | 3771.7 | 3505.7 | 3257.6 | 3107.4 | 3086.2 | 3100.9 | 3136.8 | 3154.8 |
| 30°   | 4091.6  | 4091.6  | 4065.4 | 3743.9 | 3342.4 | 3014.4 | 2883.8 | 2887.1 | 2937.7 | 2988.3 | 3006.2 |
| 32.5° | 4223.8  | 4251.5  | 4169.9 | 3668.9 | 3131.9 | 2777.8 | 2678.2 | 2681.5 | 2725.5 | 2787.5 | 2803.9 |
| 35°   | 4333.1  | 4413.1  | 4259.7 | 3531.8 | 2883.8 | 2578.6 | 2503.6 | 2459.5 | 2461.1 | 2508.5 | 2521.5 |
| 37.5° | 4483.3  | 4631.8  | 4311.9 | 3327.8 | 2619.4 | 2408.9 | 2324.0 | 2247.3 | 2196.7 | 2177.2 | 2177.2 |
| 40°   | 4744.4  | 4963.1  | 4324.9 | 3025.8 | 2369.7 | 2247.3 | 2126.6 | 2035.2 | 1937.2 | 1849.1 | 1832.8 |
| 42.5° | 5186.7  | 5462.5  | 4298.8 | 2678.2 | 2144.5 | 2069.4 | 1951.9 | 1839.3 | 1703.9 | 1579.8 | 1570.0 |
| 45°   | 5970.1  | 6112.0  | 4228.7 | 2317.5 | 1943.8 | 1898.1 | 1783.8 | 1661.4 | 1517.8 | 1406.8 | 1398.7 |
| 47.5° | 7225.1  | 7024.4  | 4135.6 | 1997.6 | 1761.0 | 1747.9 | 1659.8 | 1517.8 | 1374.2 | 1297.5 | 1289.3 |
| 50°   | 9057.9  | 8460.6  | 4122.6 | 1765.9 | 1614.1 | 1620.6 | 1548.8 | 1418.3 | 1292.6 | 1228.9 | 1219.1 |
| 52.5° | 11264.4 | 10195.4 | 4209.1 | 1602.7 | 1485.2 | 1509.6 | 1473.7 | 1353.0 | 1242.0 | 1188.1 | 1178.3 |
| 55°   | 13405.7 | 11755.7 | 4261.3 | 1475.4 | 1364.4 | 1410.1 | 1415.0 | 1313.8 | 1212.6 | 1158.8 | 1152.2 |
| 57.5° | 15143.8 | 12930.8 | 4029.5 | 1359.5 | 1259.9 | 1330.1 | 1366.0 | 1291.0 | 1197.9 | 1157.1 | 1150.6 |
| 60°   | 16353.2 | 13485.7 | 3370.2 | 1256.7 | 1183.2 | 1266.5 | 1348.1 | 1292.6 | 1233.8 | 1238.7 | 1242.0 |
| 62.5° | 16738.3 | 13239.2 | 2528.1 | 1180.0 | 1131.0 | 1245.3 | 1377.5 | 1359.5 | 1299.1 | 1336.7 | 1343.2 |
| 65°   | 16100.2 | 12220.8 | 1832.8 | 1119.6 | 1085.3 | 1259.9 | 1465.6 | 1408.5 | 1276.3 | 1304.0 | 1304.0 |
| 67.5° | 13963.9 | 10528.4 | 1426.4 | 1064.1 | 1033.1 | 1287.7 | 1553.7 | 1403.6 | 1222.4 | 1255.0 | 1225.7 |
| 70°   | 11076.7 | 8143.9  | 1188.1 | 1002.1 | 977.6  | 1246.9 | 1561.9 | 1353.0 | 1158.8 | 1165.3 | 1109.8 |
| 72.5° | 7350.8  | 5354.8  | 1021.7 | 943.3  | 892.7  | 1121.2 | 1495.0 | 1287.7 | 1096.7 | 1059.2 | 1003.7 |
| 75°   | 3601.9  | 2670.0  | 891.1  | 869.9  | 781.8  | 976.0  | 1403.6 | 1225.7 | 1029.8 | 971.1  | 940.1  |
| 77.5° | 1395.4  | 1135.9  | 760.5  | 776.9  | 680.6  | 860.1  | 1282.8 | 1137.5 | 941.7  | 861.7  | 837.2  |
| 80°   | 677.3   | 644.7   | 623.4  | 647.9  | 559.8  | 732.8  | 1171.8 | 1060.8 | 860.1  | 772.0  | 736.1  |
| 82.5° | 421.1   | 398.2   | 478.2  | 504.3  | 430.9  | 669.1  | 1111.4 | 995.6  | 757.3  | 639.8  | 610.4  |
| 85°   | 213.8   | 228.5   | 319.9  | 344.4  | 308.5  | 532.0  | 915.6  | 747.5  | 546.7  | 453.7  | 457.0  |
| 87.5° | 81.6    | 109.3   | 168.1  | 181.2  | 164.8  | 280.7  | 504.3  | 435.8  | 350.9  | 238.3  | 220.3  |
| 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)