

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: P947731

Luminaire Tested: **GALN-SB3A-730-U-AFL**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P947731  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3A-730-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 13688 lumens  
Efficiency: N/A  
Efficacy: 161.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 84.7  
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

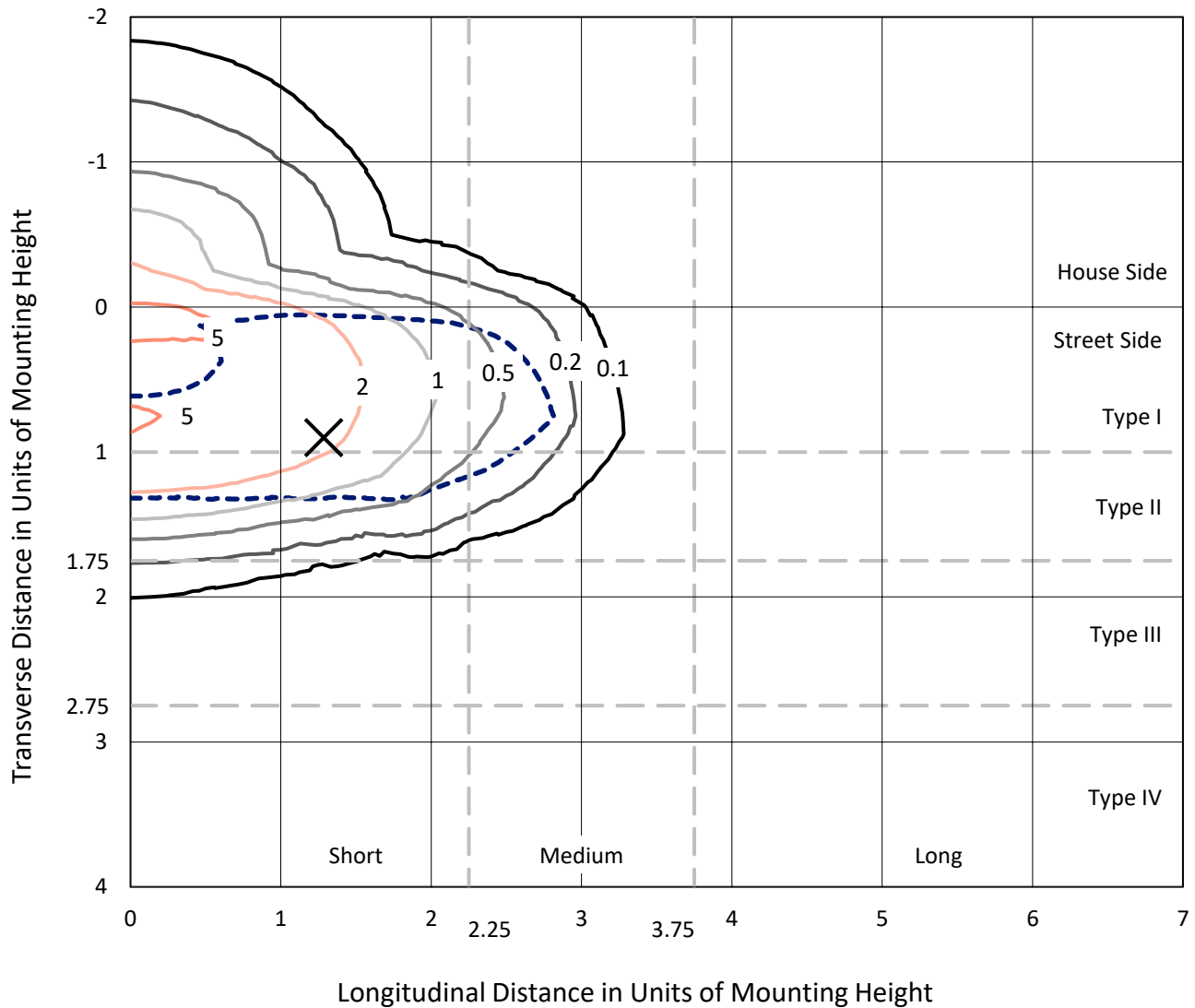


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

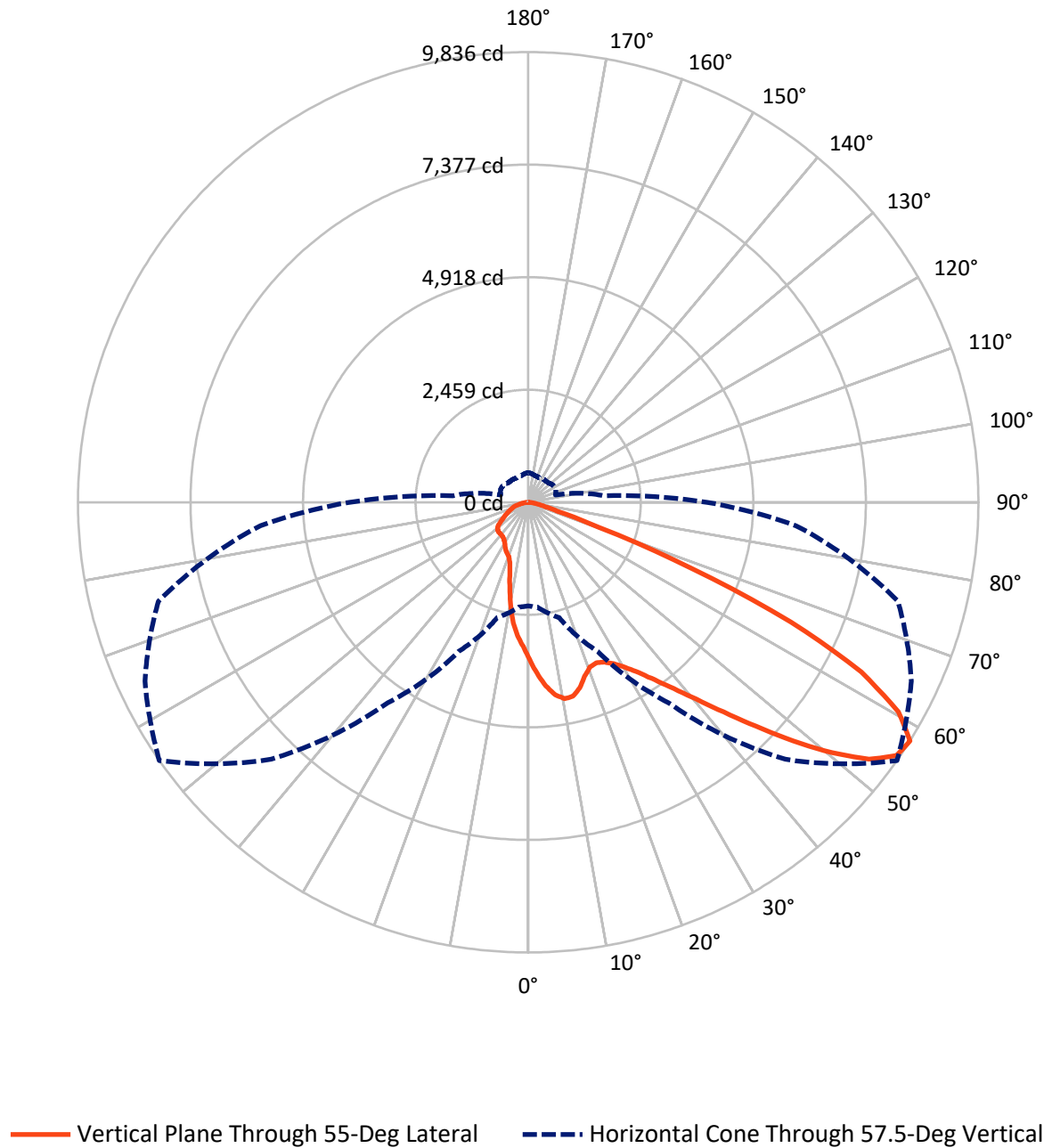


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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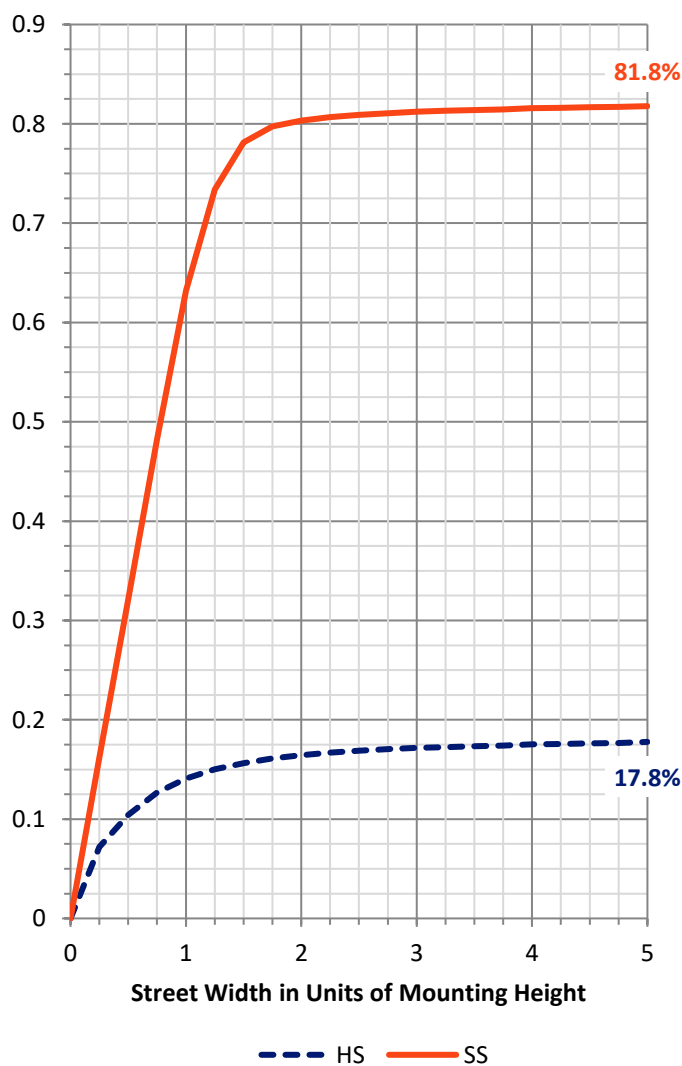
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2476.8   | 0.0    | 2476.8  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 11211.2  | 0.0    | 11211.2 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 13688.0  | 0.0    | 13688.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 318.3   | 2.3       |
| 10°-20°   | 803.3   | 5.9       |
| 20°-30°   | 1281.9  | 9.4       |
| 30°-40°   | 2029.5  | 14.8      |
| 40°-50°   | 3106.3  | 22.7      |
| 50°-60°   | 3327.2  | 24.3      |
| 60°-70°   | 2093.1  | 15.3      |
| 70°-80°   | 619.0   | 4.5       |
| 80°-90°   | 109.4   | 0.8       |
| 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°    | 13688.0 | 100.0     |
| 0°-180°   | 13688.0 | 100.0     |

**Coefficient of Utilization**



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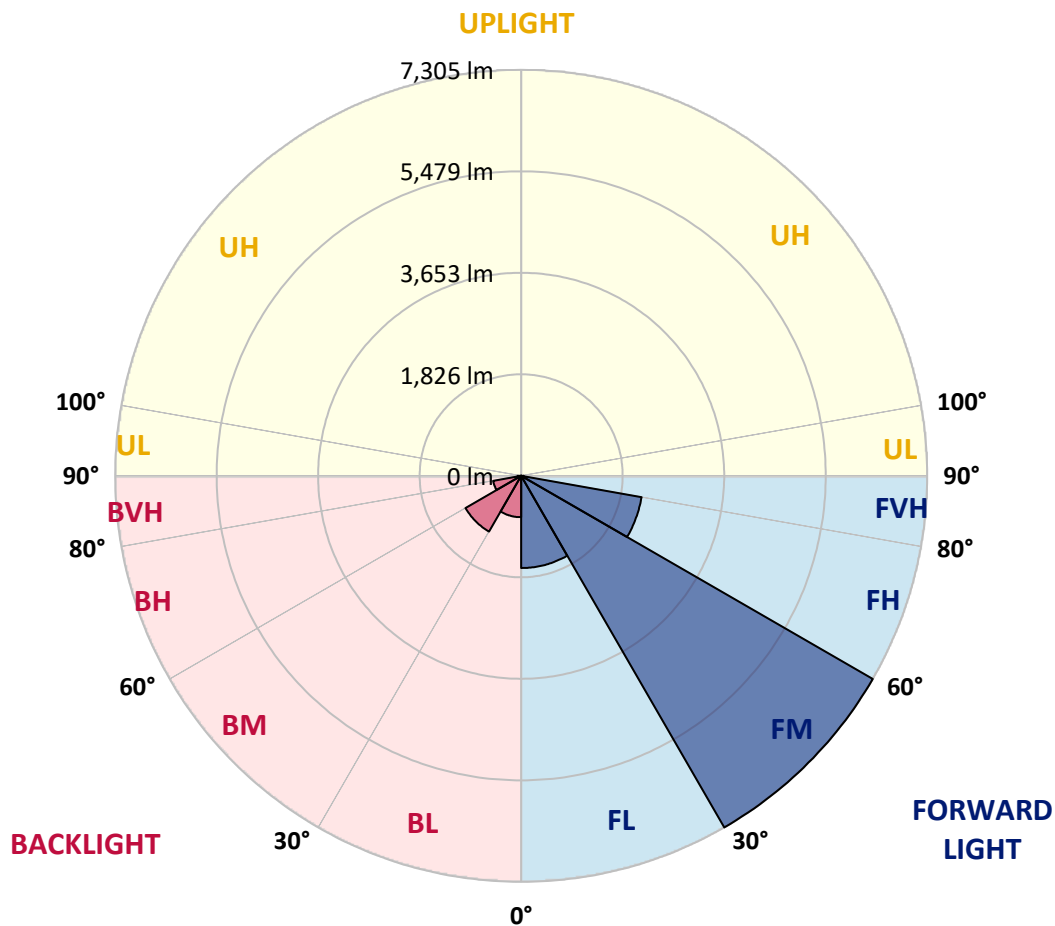
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1659.0 | 12.1      |                         |      |         |
| FM   | (30°-60°)   | 7305.4 | 53.4      |                         |      |         |
| FH   | (60°-80°)   | 2200.6 | 16.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 46.2   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 744.4  | 5.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1157.6 | 8.5       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 511.5  | 3.7       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 63.2   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3429.8 | 3429.8 | 3429.8 | 3429.8 | 3429.8 | 3429.8 | 3429.8 | 3429.8 | 3429.8 | 3429.8 | 3429.8 |
| 2.5°  | 3935.0 | 3932.2 | 3947.7 | 3894.7 | 3858.6 | 3809.8 | 3745.4 | 3663.3 | 3574.8 | 3481.4 | 3441.1 |
| 5°    | 4289.5 | 4264.7 | 4281.0 | 4241.4 | 4201.8 | 4128.2 | 4032.6 | 3898.9 | 3735.5 | 3549.4 | 3450.3 |
| 7.5°  | 4233.6 | 4216.6 | 4258.4 | 4293.8 | 4323.5 | 4314.3 | 4244.2 | 4104.1 | 3893.3 | 3622.9 | 3479.3 |
| 10°   | 3782.9 | 3763.8 | 3822.5 | 3944.9 | 4124.6 | 4281.0 | 4365.9 | 4278.9 | 4054.6 | 3703.6 | 3507.6 |
| 12.5° | 3385.2 | 3376.0 | 3414.9 | 3514.0 | 3713.5 | 4013.5 | 4350.4 | 4431.7 | 4222.3 | 3799.1 | 3545.8 |
| 15°   | 3215.4 | 3204.0 | 3228.8 | 3279.0 | 3406.4 | 3685.9 | 4208.8 | 4536.5 | 4387.2 | 3909.5 | 3606.7 |
| 17.5° | 3177.9 | 3165.1 | 3175.7 | 3201.9 | 3284.0 | 3497.0 | 3995.1 | 4588.1 | 4559.1 | 4032.6 | 3657.6 |
| 20°   | 3247.2 | 3236.6 | 3238.0 | 3236.6 | 3293.9 | 3463.0 | 3846.5 | 4568.3 | 4709.1 | 4145.9 | 3707.2 |
| 22.5° | 3414.9 | 3397.2 | 3397.9 | 3360.4 | 3391.6 | 3522.5 | 3807.6 | 4515.2 | 4842.9 | 4244.9 | 3744.7 |
| 25°   | 3688.0 | 3656.2 | 3662.6 | 3567.0 | 3558.6 | 3655.5 | 3868.5 | 4474.2 | 4975.9 | 4324.2 | 3751.7 |
| 27.5° | 4061.7 | 4025.6 | 4006.5 | 3864.2 | 3796.3 | 3844.4 | 3992.3 | 4488.3 | 5101.8 | 4392.8 | 3734.0 |
| 30°   | 4528.7 | 4484.8 | 4445.9 | 4244.2 | 4121.1 | 4103.4 | 4184.8 | 4581.8 | 5250.4 | 4465.0 | 3703.6 |
| 32.5° | 5101.1 | 5050.2 | 4979.4 | 4712.0 | 4538.6 | 4445.9 | 4433.9 | 4748.0 | 5424.5 | 4557.0 | 3688.0 |
| 35°   | 5782.6 | 5716.0 | 5615.6 | 5269.5 | 5050.2 | 4860.5 | 4762.2 | 4987.9 | 5663.0 | 4695.7 | 3705.7 |
| 37.5° | 6484.5 | 6409.5 | 6317.5 | 5905.7 | 5636.1 | 5356.6 | 5162.7 | 5313.4 | 5980.7 | 4883.9 | 3752.4 |
| 40°   | 7132.0 | 7047.8 | 6962.1 | 6595.6 | 6306.2 | 5969.4 | 5653.1 | 5725.2 | 6369.2 | 5108.9 | 3831.7 |
| 42.5° | 7514.1 | 7451.8 | 7419.3 | 7221.1 | 6997.5 | 6655.7 | 6263.0 | 6213.5 | 6805.8 | 5367.9 | 3922.3 |
| 45°   | 7497.1 | 7471.6 | 7572.1 | 7654.2 | 7601.1 | 7411.5 | 6977.7 | 6753.4 | 7243.8 | 5592.2 | 4005.8 |
| 47.5° | 7096.6 | 7113.6 | 7337.9 | 7799.2 | 8002.3 | 8101.4 | 7791.5 | 7283.4 | 7624.5 | 5759.9 | 4043.3 |
| 50°   | 6006.9 | 6021.0 | 6540.4 | 7535.3 | 8105.6 | 8663.9 | 8598.8 | 7800.7 | 7919.5 | 5862.5 | 4034.8 |
| 52.5° | 5144.3 | 5153.5 | 5376.4 | 6752.7 | 7764.6 | 8947.0 | 9326.3 | 8288.2 | 8135.4 | 5890.8 | 3987.4 |
| 55°   | 3874.9 | 3906.7 | 4156.5 | 5297.8 | 6877.2 | 8722.7 | 9769.2 | 8790.6 | 8271.9 | 5893.7 | 3937.8 |
| 57.5° | 2263.6 | 2298.3 | 2606.8 | 3596.1 | 5345.3 | 7940.8 | 9836.4 | 9236.4 | 8364.6 | 5871.0 | 3908.1 |
| 60°   | 1108.8 | 1123.7 | 1258.1 | 1890.0 | 3296.0 | 6434.3 | 9295.8 | 9452.2 | 8416.3 | 5859.0 | 3906.7 |
| 62.5° | 747.2  | 745.1  | 750.8  | 932.6  | 1624.0 | 4133.8 | 8169.3 | 9074.3 | 8388.7 | 5813.0 | 3892.5 |
| 65°   | 642.5  | 634.7  | 613.5  | 654.5  | 841.3  | 1890.7 | 6311.8 | 7946.4 | 8178.5 | 5697.6 | 3795.6 |
| 67.5° | 555.5  | 556.2  | 556.9  | 544.1  | 600.8  | 872.5  | 3857.2 | 6259.5 | 7424.2 | 5151.4 | 3422.0 |
| 70°   | 459.9  | 466.3  | 469.1  | 469.1  | 489.7  | 572.5  | 1646.6 | 4290.2 | 5856.2 | 4039.0 | 2756.1 |
| 72.5° | 418.9  | 405.5  | 406.9  | 399.8  | 399.8  | 435.9  | 663.0  | 2432.0 | 3689.5 | 2272.1 | 1682.0 |
| 75°   | 341.8  | 350.3  | 351.7  | 346.7  | 330.5  | 332.6  | 393.4  | 1020.4 | 1578.7 | 942.5  | 831.4  |
| 77.5° | 295.1  | 295.1  | 297.9  | 294.4  | 281.6  | 249.1  | 262.5  | 395.6  | 537.1  | 386.4  | 415.4  |
| 80°   | 237.0  | 236.3  | 248.4  | 255.4  | 235.6  | 184.0  | 167.7  | 218.7  | 238.5  | 169.8  | 215.8  |
| 82.5° | 115.3  | 122.4  | 170.5  | 194.6  | 179.0  | 133.0  | 102.6  | 135.9  | 127.4  | 75.0   | 96.9   |
| 85°   | 67.2   | 63.7   | 76.4   | 108.3  | 102.6  | 73.6   | 49.5   | 70.8   | 66.5   | 38.2   | 38.9   |
| 87.5° | 21.2   | 19.8   | 15.6   | 36.8   | 29.7   | 20.5   | 13.4   | 20.5   | 18.4   | 8.5    | 8.5    |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3429.8 | 3429.8 | 3429.8 | 3429.8 | 3429.8 | 3429.8 | 3429.8 | 3429.8 | 3429.8 | 3429.8 |
| 2.5°  | 3390.9 | 3307.4 | 3224.6 | 3148.8 | 3102.9 | 3073.1 | 3043.4 | 3010.2 | 2997.4 | 2978.3 |
| 5°    | 3356.9 | 3195.6 | 3051.9 | 2928.1 | 2815.6 | 2727.1 | 2638.0 | 2565.8 | 2533.2 | 2555.2 |
| 7.5°  | 3337.1 | 3103.6 | 2882.1 | 2654.9 | 2436.3 | 2261.5 | 2109.4 | 2002.5 | 1954.4 | 1966.4 |
| 10°   | 3319.4 | 2999.5 | 2662.0 | 2303.3 | 1989.1 | 1772.6 | 1616.9 | 1535.5 | 1505.1 | 1511.4 |
| 12.5° | 3303.1 | 2882.8 | 2396.7 | 1924.7 | 1590.7 | 1447.8 | 1403.2 | 1403.9 | 1409.6 | 1413.8 |
| 15°   | 3300.3 | 2742.0 | 2100.2 | 1593.5 | 1375.6 | 1366.4 | 1414.5 | 1444.9 | 1461.2 | 1466.2 |
| 17.5° | 3296.0 | 2573.6 | 1798.0 | 1367.8 | 1323.2 | 1385.5 | 1430.1 | 1449.9 | 1462.6 | 1463.3 |
| 20°   | 3279.0 | 2359.9 | 1519.2 | 1260.2 | 1311.9 | 1365.7 | 1393.3 | 1408.8 | 1419.5 | 1423.0 |
| 22.5° | 3226.7 | 2122.1 | 1302.0 | 1212.1 | 1266.6 | 1309.8 | 1342.3 | 1360.0 | 1366.4 | 1370.6 |
| 25°   | 3132.6 | 1856.1 | 1152.0 | 1166.1 | 1203.6 | 1258.1 | 1284.3 | 1287.8 | 1285.7 | 1292.1 |
| 27.5° | 3009.5 | 1570.9 | 1058.6 | 1103.9 | 1152.0 | 1198.7 | 1212.8 | 1210.7 | 1206.5 | 1213.5 |
| 30°   | 2860.9 | 1314.7 | 999.1  | 1033.8 | 1099.6 | 1142.1 | 1154.8 | 1149.9 | 1141.4 | 1149.2 |
| 32.5° | 2703.8 | 1105.3 | 950.3  | 985.0  | 1056.5 | 1098.2 | 1110.9 | 1106.0 | 1099.6 | 1106.0 |
| 35°   | 2557.3 | 958.8  | 905.0  | 952.4  | 1022.5 | 1063.5 | 1079.8 | 1080.5 | 1080.5 | 1088.3 |
| 37.5° | 2422.8 | 873.2  | 867.5  | 931.9  | 999.1  | 1035.9 | 1059.3 | 1060.7 | 1030.3 | 1032.4 |
| 40°   | 2298.3 | 837.1  | 850.5  | 918.5  | 976.5  | 1011.9 | 1013.3 | 934.0  | 878.1  | 876.7  |
| 42.5° | 2196.4 | 830.0  | 855.5  | 917.1  | 960.2  | 961.6  | 861.9  | 800.3  | 784.7  | 785.4  |
| 45°   | 2100.9 | 827.9  | 866.8  | 917.1  | 936.2  | 830.7  | 763.5  | 747.2  | 748.6  | 754.3  |
| 47.5° | 1994.0 | 819.4  | 868.9  | 904.3  | 866.8  | 738.7  | 718.9  | 711.9  | 709.0  | 710.4  |
| 50°   | 1877.3 | 789.0  | 842.1  | 878.8  | 747.9  | 699.1  | 674.3  | 672.2  | 675.8  | 677.9  |
| 52.5° | 1754.2 | 739.4  | 796.1  | 832.9  | 693.5  | 664.4  | 636.8  | 641.8  | 657.4  | 662.3  |
| 55°   | 1673.5 | 681.4  | 735.2  | 740.9  | 655.2  | 631.9  | 608.5  | 619.9  | 648.9  | 658.1  |
| 57.5° | 1652.3 | 619.9  | 665.9  | 659.5  | 606.4  | 603.6  | 589.4  | 599.3  | 636.1  | 649.6  |
| 60°   | 1645.9 | 564.7  | 597.9  | 593.0  | 559.0  | 572.5  | 568.9  | 573.9  | 586.6  | 590.9  |
| 62.5° | 1596.4 | 520.8  | 537.1  | 530.0  | 516.6  | 539.9  | 548.4  | 537.8  | 547.7  | 552.6  |
| 65°   | 1470.4 | 485.4  | 477.6  | 472.7  | 478.3  | 499.6  | 516.6  | 495.3  | 504.5  | 518.7  |
| 67.5° | 1262.4 | 437.3  | 416.1  | 421.7  | 439.4  | 450.7  | 472.7  | 448.6  | 456.4  | 480.5  |
| 70°   | 1021.1 | 376.4  | 357.3  | 373.6  | 390.6  | 413.9  | 417.5  | 401.2  | 419.6  | 446.5  |
| 72.5° | 722.5  | 314.9  | 301.4  | 334.7  | 340.4  | 370.8  | 363.0  | 355.2  | 380.7  | 389.9  |
| 75°   | 501.0  | 254.0  | 246.2  | 271.7  | 292.2  | 318.4  | 312.8  | 322.0  | 375.7  | 380.0  |
| 77.5° | 317.0  | 197.4  | 192.5  | 208.7  | 237.0  | 266.1  | 275.3  | 380.0  | 641.8  | 667.3  |
| 80°   | 184.0  | 147.2  | 141.5  | 154.3  | 179.0  | 205.9  | 265.4  | 466.3  | 423.1  | 418.2  |
| 82.5° | 102.6  | 101.2  | 94.1   | 97.6   | 119.6  | 148.6  | 375.0  | 328.3  | 266.8  | 275.3  |
| 85°   | 48.1   | 59.4   | 50.9   | 48.8   | 67.2   | 174.1  | 250.5  | 187.5  | 124.5  | 121.7  |
| 87.5° | 12.7   | 11.3   | 11.3   | 12.7   | 28.3   | 150.0  | 99.8   | 80.0   | 47.4   | 46.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)