

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: LUMARK

Report Number: P218825

Luminaire Tested: **XTOR8B-Y**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218825  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27506)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: XTOR8B-Y  
Description: CROSSTOUR WALL MOUNT LED  
  
Light Source: EATON LED 3000K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7748 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Rectangular (W 0.38' x L: 0.67' x H: 0')  
IES Classification: Type IV - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

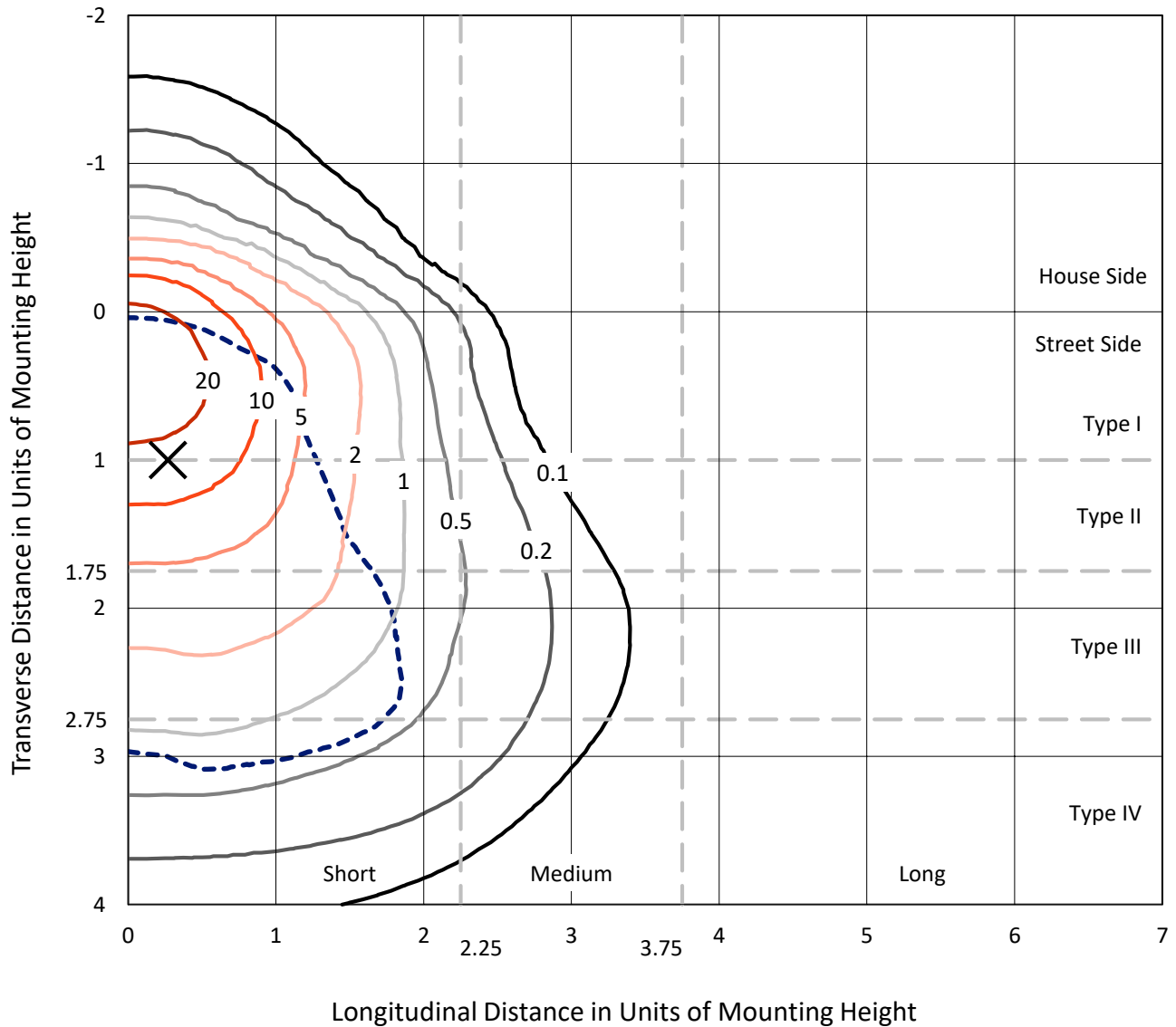
Input Watts (W): 81  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

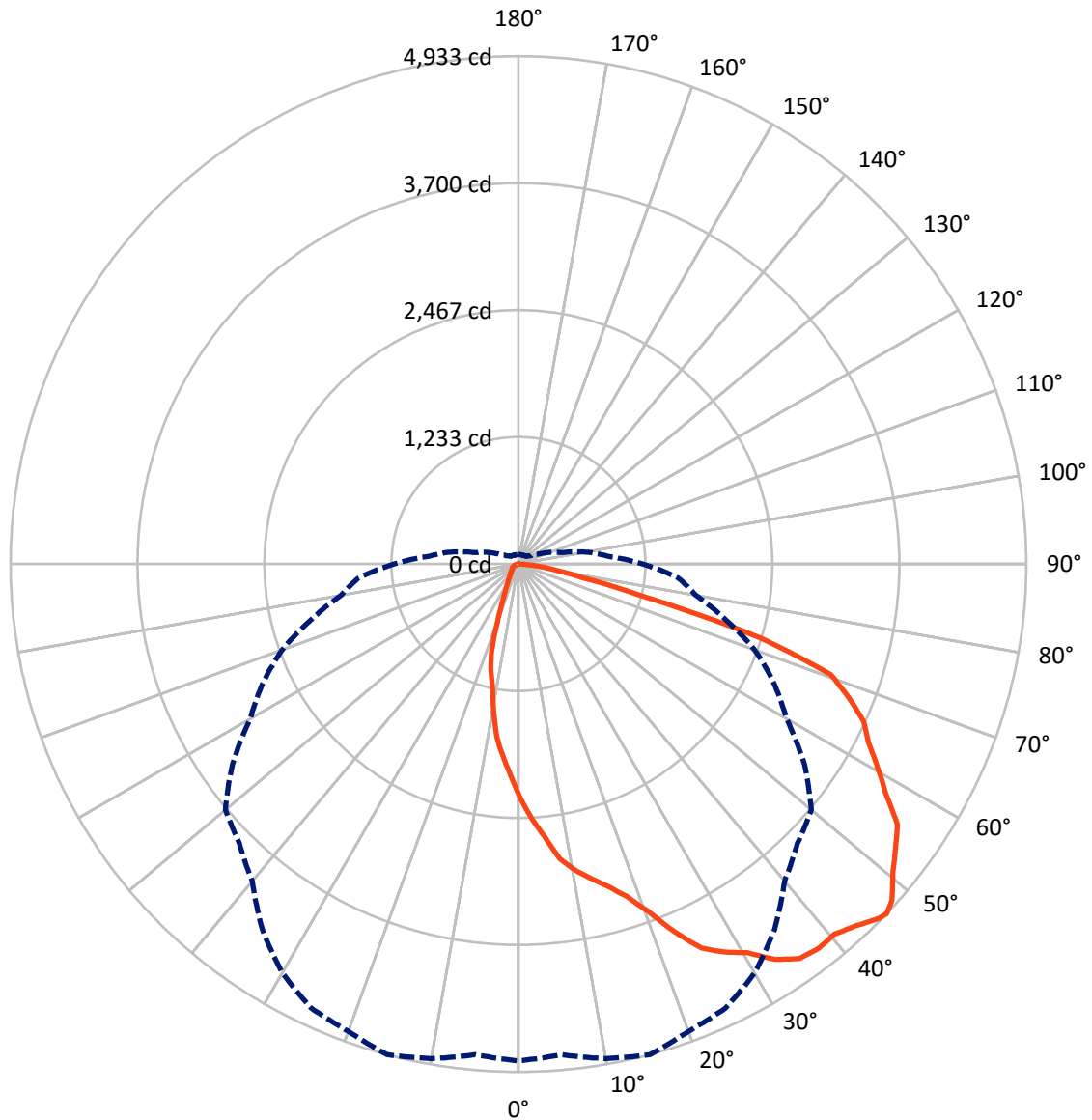
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 30.7 fc  
 Type IV - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral    - - - Horizontal Cone Through 46-Deg Vertical

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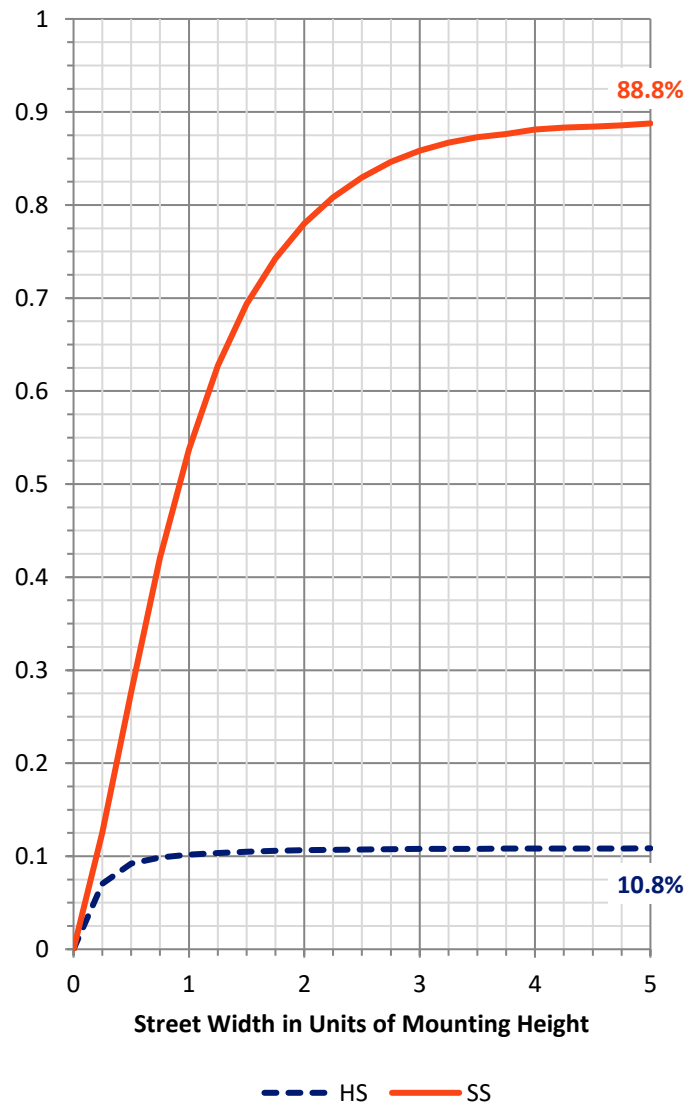
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 851.1    | 0.0    | 851.1  |
|                    | % Fixture | 11.0     | 0.0    | 11.0   |
| <b>Street Side</b> | Lumens    | 6896.9   | 0.0    | 6896.9 |
|                    | % Fixture | 89.0     | 0.0    | 89.0   |
| <b>Total</b>       | Lumens    | 7748.0   | 0.0    | 7748.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 216.3  | 2.8       |
| 10°-20°   | 614.7  | 7.9       |
| 20°-30°   | 963.4  | 12.4      |
| 30°-40°   | 1283.2 | 16.6      |
| 40°-50°   | 1487.6 | 19.2      |
| 50°-60°   | 1445.5 | 18.7      |
| 60°-70°   | 1149.2 | 14.8      |
| 70°-80°   | 534.6  | 6.9       |
| 80°-90°   | 53.5   | 0.7       |
| 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°    | 7748.0 | 100.0     |
| 0°-180°   | 7748.0 | 100.0     |



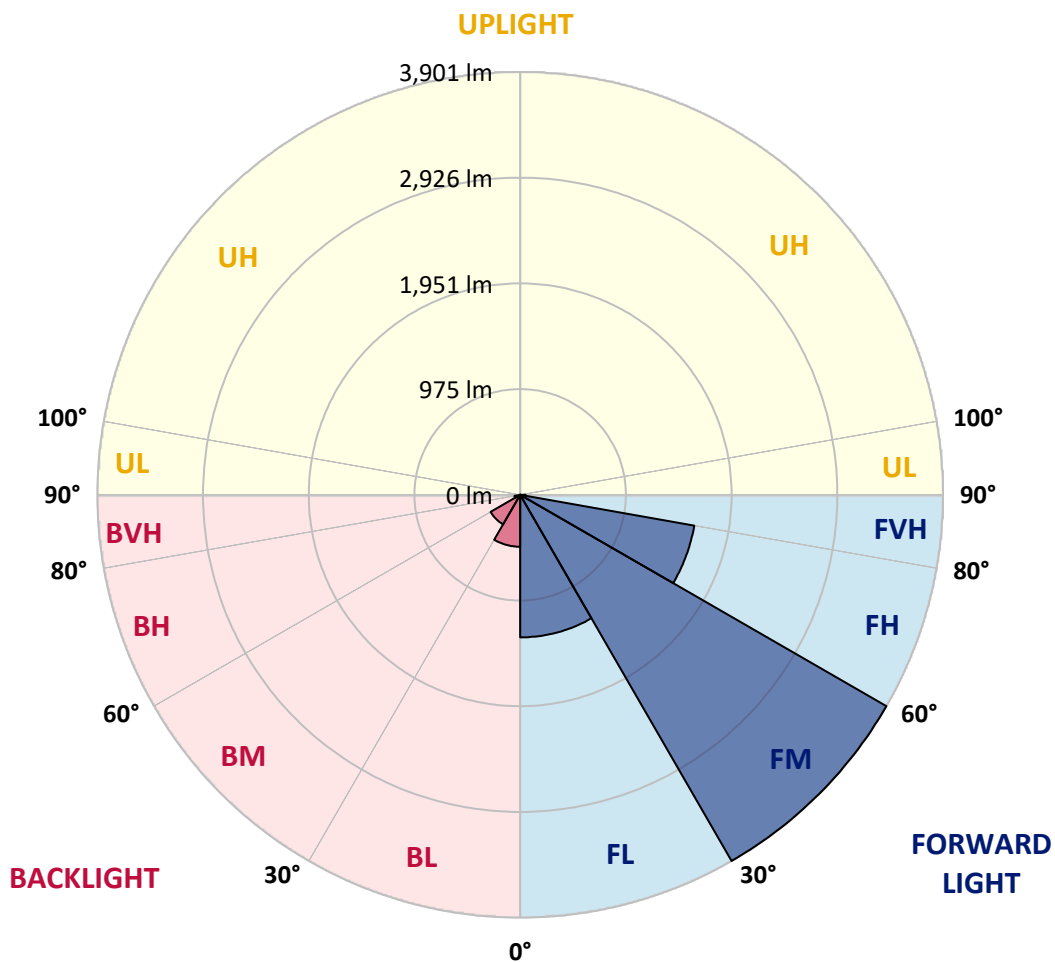
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1315.2 | 17.0      |                         |      |         |
| FM   | (30°-60°)   | 3901.3 | 50.4      |                         |      |         |
| FH   | (60°-80°)   | 1631.0 | 21.1      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 49.4   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 479.1  | 6.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 315.1  | 4.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 52.8   | 0.7       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 4.1    | 0.1       |                         |      | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2276.6 | 2276.6 | 2276.6 | 2276.6 | 2276.6 | 2276.6 | 2276.6 | 2276.6 | 2276.6 | 2276.6 | 2276.6 |
| 2.5°  | 2468.9 | 2434.3 | 2447.0 | 2474.4 | 2444.3 | 2450.7 | 2469.8 | 2446.1 | 2431.5 | 2407.8 | 2419.7 |
| 5°    | 2668.5 | 2618.4 | 2631.1 | 2659.4 | 2624.7 | 2625.6 | 2640.2 | 2611.1 | 2591.0 | 2560.0 | 2560.9 |
| 7.5°  | 2890.9 | 2847.1 | 2860.8 | 2891.8 | 2848.9 | 2840.7 | 2847.1 | 2803.4 | 2765.1 | 2693.1 | 2673.0 |
| 10°   | 3013.0 | 2971.1 | 2987.5 | 3024.8 | 2975.6 | 2968.3 | 2973.8 | 2930.0 | 2895.4 | 2845.3 | 2819.8 |
| 12.5° | 3131.5 | 3080.4 | 3092.3 | 3134.2 | 3080.4 | 3082.2 | 3095.0 | 3039.4 | 2999.3 | 2947.4 | 2926.4 |
| 15°   | 3248.1 | 3194.3 | 3203.4 | 3246.3 | 3185.2 | 3192.5 | 3208.9 | 3157.9 | 3104.1 | 3057.6 | 3028.5 |
| 17.5° | 3381.2 | 3342.9 | 3349.3 | 3393.0 | 3323.7 | 3319.2 | 3304.6 | 3239.0 | 3194.3 | 3144.2 | 3103.2 |
| 20°   | 3677.4 | 3604.5 | 3581.7 | 3600.8 | 3508.8 | 3483.2 | 3435.8 | 3353.8 | 3280.0 | 3199.8 | 3163.3 |
| 22.5° | 3975.4 | 3903.4 | 3882.4 | 3880.6 | 3764.9 | 3720.2 | 3647.3 | 3528.8 | 3393.9 | 3283.6 | 3201.6 |
| 25°   | 4212.3 | 4136.7 | 4125.8 | 4133.0 | 4026.4 | 3969.0 | 3883.3 | 3752.1 | 3589.9 | 3424.0 | 3286.4 |
| 27.5° | 4315.3 | 4234.2 | 4237.8 | 4269.7 | 4179.5 | 4163.1 | 4101.1 | 3956.2 | 3785.8 | 3607.2 | 3429.5 |
| 30°   | 4501.2 | 4411.0 | 4383.7 | 4380.9 | 4254.3 | 4239.7 | 4213.2 | 4088.4 | 3933.5 | 3770.3 | 3595.3 |
| 32.5° | 4711.8 | 4608.8 | 4600.6 | 4579.6 | 4428.3 | 4375.5 | 4303.5 | 4155.8 | 3982.7 | 3868.7 | 3713.8 |
| 35°   | 4768.3 | 4690.8 | 4709.9 | 4706.3 | 4581.4 | 4535.9 | 4448.4 | 4298.0 | 4031.0 | 3887.9 | 3782.2 |
| 37.5° | 4743.7 | 4674.4 | 4712.7 | 4736.4 | 4643.4 | 4631.6 | 4551.4 | 4417.4 | 4155.8 | 3913.4 | 3774.0 |
| 40°   | 4728.2 | 4661.6 | 4709.0 | 4727.3 | 4622.4 | 4621.5 | 4576.9 | 4447.5 | 4209.6 | 4005.5 | 3782.2 |
| 42.5° | 4828.4 | 4752.8 | 4792.9 | 4804.7 | 4664.4 | 4628.8 | 4529.5 | 4363.6 | 4164.9 | 4011.8 | 3820.4 |
| 45°   | 4874.0 | 4818.4 | 4883.1 | 4910.4 | 4781.0 | 4730.9 | 4561.4 | 4315.3 | 4045.6 | 3899.7 | 3761.2 |
| 46°   | 4825.7 | 4783.8 | 4878.5 | 4933.2 | 4830.2 | 4760.1 | 4586.9 | 4335.4 | 4021.9 | 3834.1 | 3714.7 |
| 47.5° | 4697.2 | 4662.5 | 4778.3 | 4881.3 | 4838.4 | 4804.7 | 4605.1 | 4360.9 | 4013.7 | 3753.9 | 3567.1 |
| 50°   | 4493.0 | 4473.0 | 4612.4 | 4712.7 | 4681.7 | 4682.6 | 4563.2 | 4358.1 | 4009.1 | 3692.9 | 3328.3 |
| 52.5° | 4432.9 | 4427.4 | 4560.5 | 4586.0 | 4506.7 | 4514.9 | 4399.2 | 4231.5 | 3941.7 | 3588.0 | 3184.3 |
| 55°   | 4242.4 | 4247.9 | 4422.9 | 4467.5 | 4408.3 | 4415.6 | 4308.9 | 4123.9 | 3723.8 | 3382.1 | 2971.1 |
| 57.5° | 3992.7 | 4001.8 | 4171.3 | 4206.9 | 4187.7 | 4252.4 | 4199.6 | 4013.7 | 3628.1 | 3136.9 | 2694.9 |
| 60°   | 3753.9 | 3773.1 | 3920.7 | 4007.3 | 4026.4 | 4084.7 | 3977.2 | 3820.4 | 3422.2 | 2914.5 | 2432.4 |
| 62.5° | 3527.9 | 3546.1 | 3681.0 | 3815.9 | 3938.0 | 3980.8 | 3846.9 | 3609.0 | 3095.9 | 2617.4 | 2209.1 |
| 65°   | 3212.6 | 3215.3 | 3468.7 | 3683.7 | 3728.4 | 3739.3 | 3644.6 | 3518.8 | 2903.6 | 2355.9 | 1990.4 |
| 67.5° | 2857.1 | 2925.5 | 3299.1 | 3459.5 | 3423.1 | 3452.3 | 3320.1 | 3248.1 | 2837.1 | 2277.5 | 1828.2 |
| 70°   | 2783.3 | 2867.2 | 3169.7 | 3217.1 | 3159.7 | 3104.1 | 2931.0 | 2816.1 | 2526.3 | 2190.0 | 1712.5 |
| 72.5° | 2195.5 | 2233.8 | 2421.5 | 2468.9 | 2540.9 | 2620.2 | 2660.3 | 2532.7 | 2178.2 | 1698.8 | 1435.4 |
| 75°   | 1024.4 | 1037.1 | 1100.0 | 1224.0 | 1306.0 | 1459.1 | 1590.3 | 1669.6 | 1586.7 | 1359.8 | 1127.4 |
| 77.5° | 568.7  | 575.1  | 603.3  | 628.8  | 639.8  | 661.7  | 693.5  | 694.5  | 679.9  | 691.7  | 709.0  |
| 80°   | 352.7  | 353.6  | 367.3  | 389.2  | 400.1  | 413.8  | 422.0  | 397.4  | 339.0  | 288.0  | 261.6  |
| 82.5° | 208.7  | 207.8  | 214.2  | 222.4  | 228.8  | 246.1  | 250.6  | 240.6  | 187.7  | 158.6  | 132.1  |
| 85°   | 99.3   | 98.4   | 100.3  | 103.9  | 105.7  | 115.7  | 119.4  | 114.8  | 88.4   | 74.7   | 58.3   |
| 87.5° | 21.0   | 21.9   | 21.0   | 22.8   | 21.9   | 24.6   | 24.6   | 27.3   | 21.0   | 20.1   | 13.7   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2276.6 | 2276.6 | 2276.6 | 2276.6 | 2276.6 | 2276.6 | 2276.6 | 2276.6 | 2276.6 | 2276.6 | 2276.6 |
| 2.5°  | 2410.6 | 2397.8 | 2359.5 | 2323.1 | 2331.3 | 2285.7 | 2315.8 | 2254.7 | 2236.5 | 2226.5 | 2218.3 |
| 5°    | 2537.2 | 2507.2 | 2449.8 | 2395.1 | 2381.4 | 2316.7 | 2331.3 | 2254.7 | 2220.1 | 2191.8 | 2162.7 |
| 7.5°  | 2635.7 | 2597.4 | 2532.7 | 2464.3 | 2429.7 | 2334.9 | 2334.0 | 2242.9 | 2190.0 | 2139.9 | 2102.5 |
| 10°   | 2760.5 | 2661.2 | 2591.0 | 2511.7 | 2461.6 | 2347.7 | 2319.4 | 2216.4 | 2144.4 | 2079.7 | 2033.3 |
| 12.5° | 2867.2 | 2783.3 | 2674.9 | 2550.9 | 2496.2 | 2362.3 | 2312.1 | 2190.9 | 2098.9 | 2022.3 | 1954.0 |
| 15°   | 2951.9 | 2873.5 | 2773.3 | 2628.4 | 2527.2 | 2377.8 | 2307.6 | 2163.6 | 2050.6 | 1964.9 | 1861.9 |
| 17.5° | 3028.5 | 2934.6 | 2837.1 | 2694.0 | 2542.7 | 2381.4 | 2289.3 | 2118.0 | 1986.8 | 1889.3 | 1763.5 |
| 20°   | 3070.4 | 2970.1 | 2864.4 | 2721.3 | 2578.3 | 2362.3 | 2253.8 | 2061.5 | 1909.3 | 1789.0 | 1666.9 |
| 22.5° | 3108.7 | 2983.8 | 2878.1 | 2723.2 | 2581.9 | 2333.1 | 2207.3 | 1994.1 | 1823.6 | 1682.4 | 1566.6 |
| 25°   | 3152.4 | 3015.7 | 2883.6 | 2724.1 | 2575.5 | 2305.8 | 2159.9 | 1919.3 | 1736.2 | 1571.2 | 1459.1 |
| 27.5° | 3232.6 | 3040.3 | 2906.3 | 2717.7 | 2550.9 | 2301.2 | 2108.0 | 1842.8 | 1642.3 | 1466.4 | 1333.3 |
| 30°   | 3365.7 | 3090.4 | 2900.9 | 2684.0 | 2515.4 | 2265.7 | 2037.8 | 1758.9 | 1541.1 | 1352.5 | 1199.4 |
| 32.5° | 3488.7 | 3167.9 | 2910.0 | 2666.7 | 2459.8 | 2214.6 | 1961.3 | 1667.8 | 1434.5 | 1240.4 | 1061.7 |
| 35°   | 3573.5 | 3239.0 | 2926.4 | 2622.9 | 2386.9 | 2141.7 | 1890.2 | 1575.8 | 1325.1 | 1131.0 | 926.9  |
| 37.5° | 3603.5 | 3278.2 | 2952.8 | 2584.6 | 2319.4 | 2066.1 | 1828.2 | 1491.0 | 1218.5 | 1023.5 | 802.9  |
| 40°   | 3537.9 | 3267.2 | 2941.9 | 2549.1 | 2248.3 | 1983.1 | 1772.6 | 1405.3 | 1112.8 | 916.8  | 680.8  |
| 42.5° | 3492.4 | 3160.6 | 2894.5 | 2519.9 | 2165.4 | 1878.3 | 1697.9 | 1321.5 | 1009.8 | 812.9  | 552.3  |
| 45°   | 3437.7 | 3062.2 | 2807.0 | 2472.5 | 2103.4 | 1781.7 | 1600.4 | 1239.5 | 908.6  | 709.0  | 456.6  |
| 46°   | 3390.3 | 3008.4 | 2738.7 | 2443.4 | 2082.5 | 1748.0 | 1560.3 | 1206.6 | 869.4  | 668.0  | 427.4  |
| 47.5° | 3303.7 | 2925.5 | 2642.0 | 2381.4 | 2049.7 | 1690.6 | 1494.6 | 1154.7 | 812.9  | 607.0  | 379.1  |
| 50°   | 3053.1 | 2730.5 | 2479.8 | 2229.2 | 1969.5 | 1591.2 | 1372.5 | 1063.6 | 718.2  | 509.5  | 305.3  |
| 52.5° | 2753.2 | 2494.4 | 2310.3 | 2043.3 | 1839.1 | 1510.1 | 1226.7 | 965.1  | 621.6  | 417.4  | 250.6  |
| 55°   | 2530.9 | 2194.6 | 2089.8 | 1853.7 | 1656.9 | 1409.9 | 1085.4 | 853.9  | 521.3  | 330.8  | 203.2  |
| 57.5° | 2284.8 | 1979.5 | 1788.1 | 1666.0 | 1451.8 | 1257.7 | 938.7  | 720.0  | 423.8  | 251.5  | 163.1  |
| 60°   | 2022.3 | 1758.0 | 1568.5 | 1383.5 | 1197.5 | 1015.3 | 779.2  | 576.0  | 331.7  | 184.1  | 130.3  |
| 62.5° | 1853.7 | 1538.4 | 1277.7 | 1124.6 | 907.7  | 760.1  | 602.4  | 435.6  | 238.8  | 131.2  | 101.2  |
| 65°   | 1668.7 | 1333.3 | 1023.5 | 812.9  | 638.0  | 490.3  | 423.8  | 304.4  | 162.2  | 95.7   | 80.2   |
| 67.5° | 1443.6 | 1061.7 | 827.5  | 543.2  | 420.1  | 292.5  | 271.6  | 186.8  | 107.5  | 73.8   | 65.6   |
| 70°   | 1251.3 | 874.0  | 592.4  | 421.1  | 247.0  | 195.9  | 148.6  | 108.5  | 72.0   | 59.2   | 53.8   |
| 72.5° | 1092.7 | 733.6  | 494.9  | 274.3  | 185.0  | 113.9  | 85.7   | 62.0   | 50.1   | 46.5   | 43.7   |
| 75°   | 879.5  | 683.5  | 406.5  | 224.2  | 126.7  | 71.1   | 50.1   | 41.0   | 39.2   | 35.5   | 34.6   |
| 77.5° | 679.9  | 564.1  | 360.9  | 185.9  | 89.3   | 41.0   | 35.5   | 31.0   | 30.1   | 28.3   | 27.3   |
| 80°   | 263.4  | 268.9  | 241.5  | 138.5  | 58.3   | 28.3   | 24.6   | 21.9   | 21.9   | 21.0   | 20.1   |
| 82.5° | 114.8  | 93.9   | 85.7   | 60.2   | 31.0   | 18.2   | 16.4   | 14.6   | 14.6   | 14.6   | 13.7   |
| 85°   | 50.1   | 37.4   | 28.3   | 18.2   | 13.7   | 10.9   | 10.9   | 10.0   | 10.0   | 10.0   | 9.1    |
| 87.5° | 12.8   | 10.9   | 9.1    | 8.2    | 8.2    | 7.3    | 8.2    | 8.2    | 7.3    | 7.3    | 7.3    |
| 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):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2276.6 | 2276.6 | 2276.6 | 2276.6 | 2276.6 | 2276.6 | 2276.6 | 2276.6 | 2276.6 | 2276.6 | 2276.6 |
| 2.5°  | 2185.5 | 2180.0 | 2179.1 | 2127.1 | 2135.3 | 2093.4 | 2104.3 | 2100.7 | 2084.3 | 2067.0 | 2068.8 |
| 5°    | 2118.0 | 2102.5 | 2093.4 | 2024.1 | 2017.8 | 1955.8 | 1948.5 | 1931.2 | 1910.2 | 1887.4 | 1889.3 |
| 7.5°  | 2047.8 | 2009.6 | 1970.4 | 1883.8 | 1877.4 | 1829.1 | 1822.7 | 1801.8 | 1771.7 | 1730.7 | 1724.3 |
| 10°   | 1947.6 | 1887.4 | 1858.3 | 1782.6 | 1758.9 | 1686.0 | 1653.2 | 1609.5 | 1566.6 | 1512.0 | 1494.6 |
| 12.5° | 1846.4 | 1802.7 | 1761.7 | 1656.0 | 1604.0 | 1511.0 | 1459.1 | 1361.6 | 1285.9 | 1248.6 | 1221.2 |
| 15°   | 1766.2 | 1711.5 | 1635.9 | 1504.7 | 1429.0 | 1277.7 | 1218.5 | 1157.4 | 1125.5 | 1105.5 | 1086.3 |
| 17.5° | 1676.9 | 1587.6 | 1481.9 | 1324.2 | 1197.5 | 1106.4 | 1077.2 | 1039.0 | 994.3  | 955.1  | 906.8  |
| 20°   | 1562.1 | 1440.9 | 1308.7 | 1121.0 | 1047.2 | 991.6  | 943.3  | 876.7  | 808.4  | 742.8  | 656.2  |
| 22.5° | 1431.8 | 1289.6 | 1103.7 | 986.1  | 935.1  | 852.1  | 779.2  | 648.0  | 571.4  | 518.6  | 471.2  |
| 25°   | 1291.4 | 1094.5 | 957.8  | 879.5  | 800.2  | 695.4  | 566.9  | 482.1  | 420.1  | 380.0  | 348.1  |
| 27.5° | 1146.5 | 943.3  | 848.5  | 757.3  | 653.4  | 509.5  | 427.4  | 362.7  | 319.0  | 292.5  | 277.1  |
| 30°   | 983.4  | 808.4  | 738.2  | 629.8  | 481.2  | 385.5  | 326.3  | 281.6  | 252.4  | 234.2  | 222.4  |
| 32.5° | 812.0  | 703.6  | 621.6  | 468.4  | 372.7  | 298.9  | 256.1  | 228.8  | 206.0  | 193.2  | 185.9  |
| 35°   | 689.0  | 608.8  | 501.3  | 364.5  | 286.2  | 231.5  | 206.0  | 185.9  | 171.3  | 160.4  | 155.8  |
| 37.5° | 584.2  | 513.1  | 378.2  | 282.5  | 225.1  | 189.6  | 169.5  | 155.8  | 144.9  | 138.5  | 135.8  |
| 40°   | 504.0  | 422.9  | 298.9  | 222.4  | 180.5  | 154.9  | 143.1  | 133.1  | 127.6  | 122.1  | 120.3  |
| 42.5° | 429.3  | 326.3  | 237.9  | 177.7  | 148.6  | 131.2  | 123.0  | 116.7  | 112.1  | 108.5  | 107.5  |
| 45°   | 360.0  | 259.7  | 192.3  | 146.7  | 126.7  | 113.9  | 108.5  | 103.9  | 101.2  | 97.5   | 97.5   |
| 46°   | 333.6  | 238.8  | 177.7  | 136.7  | 120.3  | 108.5  | 103.9  | 99.3   | 96.6   | 93.9   | 93.9   |
| 47.5° | 294.4  | 212.3  | 157.7  | 124.9  | 110.3  | 101.2  | 97.5   | 93.9   | 91.1   | 89.3   | 89.3   |
| 50°   | 234.2  | 171.3  | 131.2  | 109.4  | 98.4   | 91.1   | 88.4   | 85.7   | 84.8   | 82.9   | 83.8   |
| 52.5° | 183.2  | 141.3  | 113.0  | 96.6   | 88.4   | 82.9   | 81.1   | 80.2   | 79.3   | 76.6   | 76.6   |
| 55°   | 147.6  | 116.7  | 98.4   | 85.7   | 80.2   | 76.6   | 75.6   | 74.7   | 72.9   | 71.1   | 71.1   |
| 57.5° | 121.2  | 101.2  | 86.6   | 76.6   | 72.9   | 72.0   | 71.1   | 68.4   | 67.4   | 66.5   | 67.4   |
| 60°   | 101.2  | 87.5   | 77.5   | 70.2   | 67.4   | 66.5   | 64.7   | 63.8   | 63.8   | 62.9   | 63.8   |
| 62.5° | 84.8   | 76.6   | 69.3   | 63.8   | 62.9   | 61.1   | 61.1   | 60.2   | 59.2   | 58.3   | 58.3   |
| 65°   | 71.1   | 67.4   | 61.1   | 57.4   | 56.5   | 56.5   | 57.4   | 55.6   | 53.8   | 51.9   | 51.0   |
| 67.5° | 61.1   | 58.3   | 54.7   | 51.0   | 52.9   | 51.9   | 51.9   | 49.2   | 46.5   | 44.7   | 42.8   |
| 70°   | 51.0   | 49.2   | 47.4   | 46.5   | 47.4   | 46.5   | 44.7   | 41.9   | 40.1   | 37.4   | 36.5   |
| 72.5° | 41.9   | 41.0   | 41.0   | 40.1   | 40.1   | 38.3   | 36.5   | 34.6   | 33.7   | 31.0   | 31.0   |
| 75°   | 32.8   | 33.7   | 33.7   | 33.7   | 31.9   | 31.0   | 30.1   | 28.3   | 27.3   | 25.5   | 24.6   |
| 77.5° | 25.5   | 26.4   | 26.4   | 25.5   | 24.6   | 23.7   | 22.8   | 21.9   | 21.0   | 19.1   | 19.1   |
| 80°   | 19.1   | 19.1   | 19.1   | 18.2   | 18.2   | 17.3   | 16.4   | 15.5   | 14.6   | 13.7   | 13.7   |
| 82.5° | 12.8   | 12.8   | 11.8   | 11.8   | 10.9   | 10.9   | 10.9   | 10.0   | 9.1    | 8.2    | 8.2    |
| 85°   | 9.1    | 8.2    | 8.2    | 7.3    | 7.3    | 7.3    | 6.4    | 6.4    | 5.5    | 4.6    | 4.6    |
| 87.5° | 6.4    | 6.4    | 5.5    | 5.5    | 5.5    | 4.6    | 4.6    | 4.6    | 3.6    | 2.7    | 2.7    |
| 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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