

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: P231782

Luminaire Tested: **AXCL6A-C**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P231782  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29584)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: AXCL6A-C  
Description: AXCENT CUTOFF WALLPACK  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7465 lumens  
Efficiency: N/A  
Efficacy: 132.3 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.29' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B2 - U0 - G1

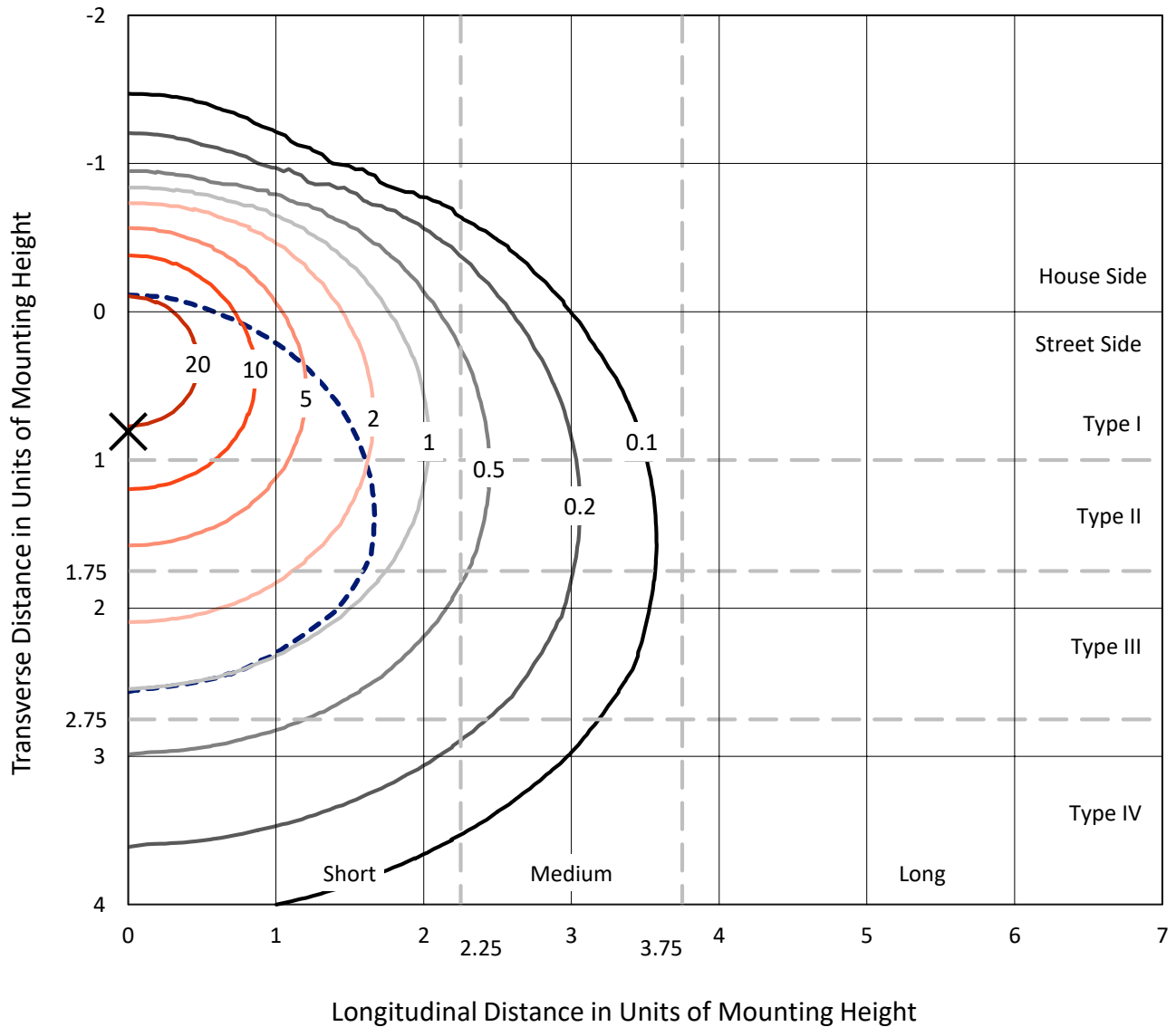
Input Watts (W): 56.43  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

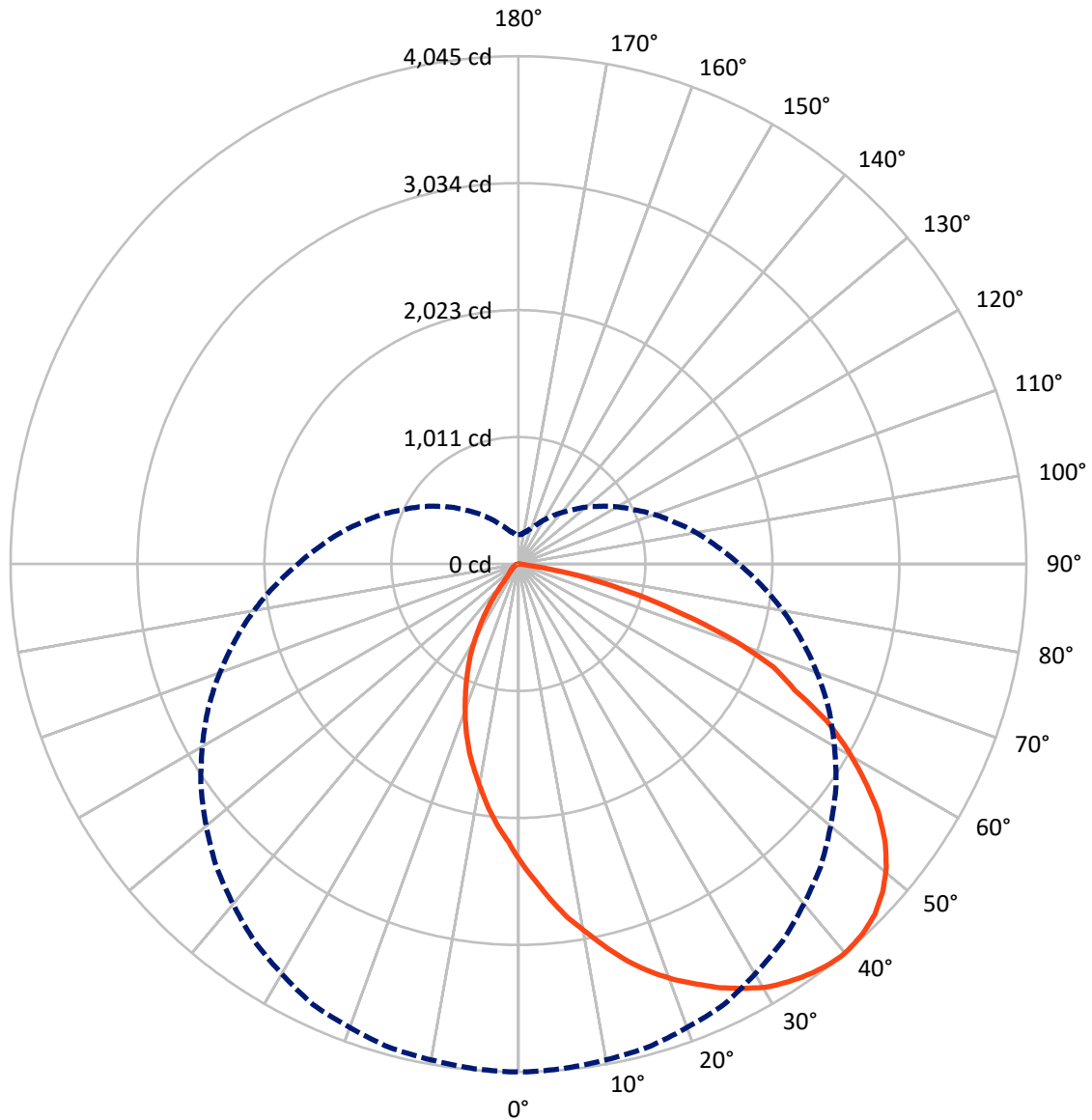
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29.5 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 39-Deg Vertical

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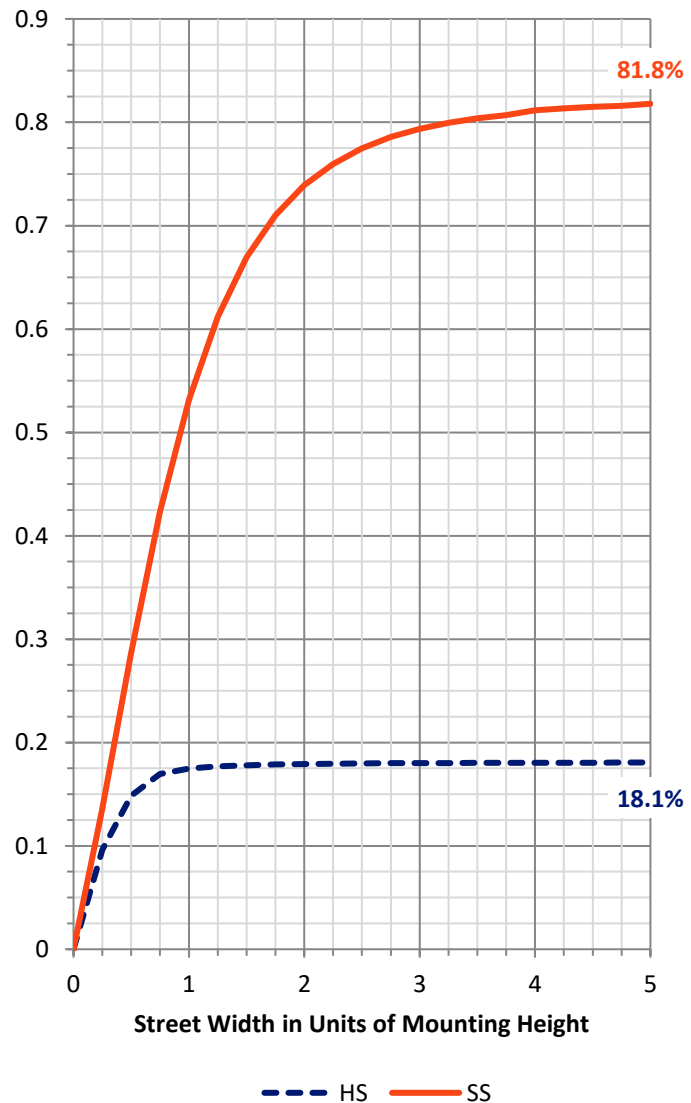
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1361.6   | 0.0    | 1361.6 |
|                    | % Fixture | 18.2     | 0.0    | 18.2   |
| <b>Street Side</b> | Lumens    | 6103.4   | 0.0    | 6103.4 |
|                    | % Fixture | 81.8     | 0.0    | 81.8   |
| <b>Total</b>       | Lumens    | 7465.0   | 0.0    | 7465.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 227.5  | 3.0       |
| 10°-20°   | 670.9  | 9.0       |
| 20°-30°   | 1046.9 | 14.0      |
| 30°-40°   | 1302.0 | 17.4      |
| 40°-50°   | 1401.3 | 18.8      |
| 50°-60°   | 1316.7 | 17.6      |
| 60°-70°   | 997.3  | 13.4      |
| 70°-80°   | 461.7  | 6.2       |
| 80°-90°   | 40.5   | 0.5       |
| 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°    | 7465.0 | 100.0     |
| 0°-180°   | 7465.0 | 100.0     |



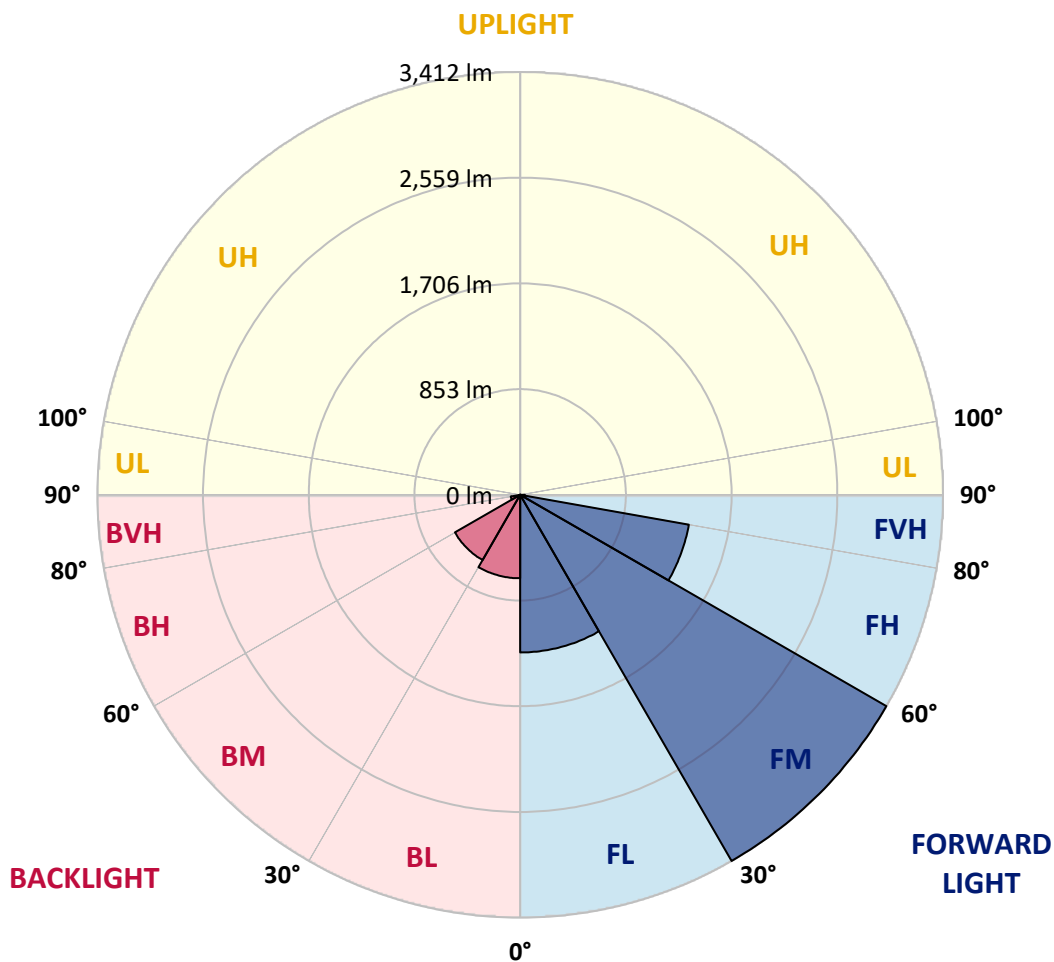
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1271.9 | 17.0      |                         |      |         |
| FM   | (30°-60°)   | 3412.2 | 45.7      |                         |      |         |
| FH   | (60°-80°)   | 1382.0 | 18.5      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 37.3   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 673.5  | 9.0       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 607.8  | 8.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 77.1   | 1.0       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 3.2    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2375.2 | 2375.2 | 2375.2 | 2375.2 | 2375.2 | 2375.2 | 2375.2 | 2375.2 | 2375.2 | 2375.2 | 2375.2 |
| 2.5°  | 2523.0 | 2513.0 | 2518.2 | 2509.2 | 2508.3 | 2497.8 | 2478.8 | 2464.6 | 2446.5 | 2418.0 | 2388.1 |
| 5°    | 2686.4 | 2675.5 | 2680.3 | 2664.6 | 2655.1 | 2631.3 | 2592.8 | 2557.7 | 2516.8 | 2461.7 | 2407.1 |
| 7.5°  | 2846.6 | 2838.5 | 2839.9 | 2820.4 | 2800.5 | 2760.6 | 2704.0 | 2645.6 | 2579.1 | 2499.7 | 2417.0 |
| 10°   | 2985.3 | 2981.5 | 2987.2 | 2955.4 | 2927.3 | 2873.7 | 2801.0 | 2718.3 | 2626.1 | 2519.2 | 2412.8 |
| 12.5° | 3139.3 | 3128.3 | 3133.6 | 3098.4 | 3061.3 | 2991.0 | 2898.8 | 2793.4 | 2674.6 | 2540.6 | 2406.1 |
| 15°   | 3287.0 | 3288.9 | 3286.1 | 3249.0 | 3202.0 | 3115.0 | 3002.9 | 2871.3 | 2724.9 | 2560.5 | 2398.0 |
| 17.5° | 3416.3 | 3423.4 | 3421.5 | 3383.0 | 3318.9 | 3222.9 | 3093.6 | 2935.9 | 2760.6 | 2567.2 | 2374.3 |
| 20°   | 3532.2 | 3537.4 | 3534.1 | 3492.8 | 3419.6 | 3310.3 | 3164.0 | 2982.9 | 2778.6 | 2555.3 | 2336.7 |
| 22.5° | 3634.4 | 3637.7 | 3634.8 | 3589.2 | 3507.5 | 3385.9 | 3223.4 | 3018.1 | 2787.2 | 2539.6 | 2298.7 |
| 25°   | 3739.8 | 3738.9 | 3736.5 | 3687.1 | 3597.8 | 3461.9 | 3280.4 | 3051.4 | 2799.1 | 2527.8 | 2263.1 |
| 27.5° | 3828.2 | 3835.8 | 3829.6 | 3783.1 | 3685.7 | 3533.6 | 3330.7 | 3080.8 | 2808.6 | 2513.0 | 2223.2 |
| 30°   | 3910.9 | 3908.0 | 3903.3 | 3853.9 | 3751.2 | 3586.4 | 3363.5 | 3095.5 | 2804.8 | 2487.4 | 2175.7 |
| 32.5° | 3964.6 | 3964.6 | 3953.6 | 3906.1 | 3800.2 | 3622.5 | 3382.5 | 3101.7 | 2791.5 | 2451.7 | 2116.8 |
| 35°   | 4008.3 | 4006.9 | 3996.4 | 3948.9 | 3840.1 | 3652.9 | 3398.2 | 3102.7 | 2773.9 | 2412.3 | 2054.0 |
| 37.5° | 4038.2 | 4037.3 | 4027.3 | 3977.9 | 3864.8 | 3666.2 | 3405.3 | 3095.5 | 2747.7 | 2364.8 | 1986.1 |
| 39°   | 4045.4 | 4045.4 | 4035.8 | 3985.5 | 3872.9 | 3667.1 | 3405.3 | 3087.5 | 2726.8 | 2333.9 | 1942.9 |
| 40°   | 4044.4 | 4044.4 | 4034.9 | 3986.0 | 3872.4 | 3662.9 | 3400.6 | 3077.5 | 2710.7 | 2310.6 | 1912.9 |
| 42.5° | 4024.4 | 4025.4 | 4015.9 | 3969.3 | 3856.7 | 3642.4 | 3374.0 | 3043.3 | 2661.3 | 2246.0 | 1832.6 |
| 45°   | 3979.8 | 3979.8 | 3971.2 | 3927.5 | 3812.1 | 3597.8 | 3327.9 | 2987.2 | 2598.1 | 2168.5 | 1745.7 |
| 47.5° | 3903.8 | 3905.7 | 3896.2 | 3855.8 | 3738.9 | 3535.5 | 3266.6 | 2918.3 | 2520.6 | 2083.0 | 1646.8 |
| 50°   | 3797.8 | 3800.7 | 3791.2 | 3751.7 | 3645.3 | 3449.0 | 3182.5 | 2831.8 | 2424.2 | 1988.0 | 1540.4 |
| 52.5° | 3654.8 | 3655.7 | 3651.5 | 3617.7 | 3521.7 | 3334.5 | 3074.6 | 2725.9 | 2317.7 | 1874.9 | 1426.8 |
| 55°   | 3474.7 | 3478.5 | 3472.8 | 3441.0 | 3361.1 | 3192.0 | 2943.5 | 2599.0 | 2192.3 | 1756.1 | 1302.8 |
| 57.5° | 3250.9 | 3255.2 | 3251.4 | 3226.2 | 3164.0 | 3019.0 | 2786.2 | 2451.7 | 2066.4 | 1619.8 | 1172.6 |
| 60°   | 3016.2 | 3021.9 | 3017.6 | 2994.3 | 2934.5 | 2819.0 | 2606.6 | 2285.0 | 1905.3 | 1473.9 | 1038.7 |
| 62.5° | 2757.7 | 2762.5 | 2758.7 | 2753.0 | 2696.4 | 2596.2 | 2413.2 | 2102.5 | 1740.4 | 1323.3 | 902.3  |
| 65°   | 2417.0 | 2423.7 | 2410.4 | 2435.1 | 2425.1 | 2325.8 | 2183.7 | 1906.7 | 1553.2 | 1150.8 | 768.8  |
| 67.5° | 2191.8 | 2193.7 | 2173.8 | 2151.4 | 2081.6 | 2063.5 | 1941.0 | 1695.8 | 1360.8 | 987.8  | 634.8  |
| 70°   | 1823.6 | 1788.0 | 1792.7 | 1822.6 | 1848.8 | 1748.0 | 1679.6 | 1465.8 | 1158.9 | 817.2  | 506.5  |
| 72.5° | 1384.1 | 1354.2 | 1361.8 | 1379.3 | 1424.5 | 1470.6 | 1366.5 | 1233.9 | 953.6  | 659.5  | 379.2  |
| 75°   | 974.5  | 944.1  | 953.1  | 967.9  | 1002.5 | 1044.8 | 1071.4 | 957.9  | 736.0  | 497.9  | 276.1  |
| 77.5° | 607.7  | 598.7  | 588.2  | 597.7  | 624.3  | 661.9  | 694.2  | 688.5  | 526.9  | 347.8  | 180.6  |
| 80°   | 288.9  | 280.8  | 275.6  | 283.2  | 300.3  | 345.0  | 373.0  | 373.0  | 324.0  | 212.9  | 102.6  |
| 82.5° | 53.2   | 51.8   | 51.3   | 58.0   | 65.6   | 103.1  | 135.9  | 151.6  | 146.8  | 98.4   | 42.3   |
| 85°   | 24.7   | 23.3   | 23.8   | 24.2   | 24.7   | 27.6   | 29.0   | 34.7   | 40.9   | 27.1   | 13.8   |
| 87.5° | 8.6    | 9.0    | 9.0    | 10.0   | 9.5    | 10.5   | 10.9   | 11.9   | 10.9   | 8.6    | 7.1    |
| 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°    | 2375.2 | 2375.2 | 2375.2 | 2375.2 | 2375.2 | 2375.2 | 2375.2 | 2375.2 | 2375.2 | 2375.2 | 2375.2 |
| 2.5°  | 2372.9 | 2359.6 | 2334.4 | 2307.8 | 2284.0 | 2257.9 | 2241.2 | 2232.2 | 2221.3 | 2223.2 | 2217.0 |
| 5°    | 2380.0 | 2352.4 | 2303.5 | 2254.5 | 2211.3 | 2167.6 | 2137.2 | 2116.3 | 2098.7 | 2097.3 | 2091.6 |
| 7.5°  | 2376.7 | 2335.3 | 2262.6 | 2192.3 | 2129.6 | 2067.3 | 2023.2 | 1993.2 | 1967.1 | 1962.3 | 1957.1 |
| 10°   | 2360.0 | 2307.8 | 2212.3 | 2118.2 | 2038.8 | 1960.0 | 1903.4 | 1863.0 | 1829.8 | 1821.7 | 1814.1 |
| 12.5° | 2340.5 | 2277.8 | 2159.0 | 2046.0 | 1951.4 | 1864.0 | 1791.8 | 1740.4 | 1702.4 | 1683.9 | 1682.0 |
| 15°   | 2319.6 | 2244.1 | 2102.0 | 1973.7 | 1859.7 | 1764.2 | 1682.5 | 1622.6 | 1577.5 | 1556.1 | 1552.8 |
| 17.5° | 2284.0 | 2195.6 | 2034.1 | 1887.3 | 1759.0 | 1653.5 | 1562.3 | 1495.3 | 1444.0 | 1420.2 | 1415.0 |
| 20°   | 2233.2 | 2135.3 | 1954.3 | 1789.9 | 1648.3 | 1530.9 | 1433.5 | 1361.3 | 1305.2 | 1276.2 | 1269.6 |
| 22.5° | 2182.3 | 2074.0 | 1874.9 | 1694.4 | 1539.0 | 1410.2 | 1303.3 | 1225.9 | 1165.5 | 1133.7 | 1127.5 |
| 25°   | 2135.8 | 2019.3 | 1798.4 | 1603.1 | 1433.5 | 1292.4 | 1175.5 | 1085.7 | 1028.7 | 994.0  | 986.9  |
| 27.5° | 2084.4 | 1957.6 | 1718.6 | 1508.6 | 1326.6 | 1173.6 | 1047.2 | 951.2  | 889.9  | 852.4  | 858.6  |
| 30°   | 2023.2 | 1885.8 | 1630.7 | 1401.2 | 1211.6 | 1050.1 | 915.6  | 815.3  | 751.7  | 710.8  | 717.0  |
| 32.5° | 1953.3 | 1807.4 | 1536.6 | 1295.7 | 1099.0 | 924.1  | 788.7  | 681.8  | 616.3  | 578.7  | 577.8  |
| 35°   | 1880.6 | 1725.7 | 1437.3 | 1190.7 | 983.5  | 799.7  | 658.1  | 552.6  | 474.7  | 441.9  | 439.5  |
| 37.5° | 1803.2 | 1640.2 | 1346.6 | 1084.3 | 870.0  | 679.9  | 536.0  | 420.5  | 348.3  | 308.4  | 305.5  |
| 39°   | 1755.6 | 1589.3 | 1287.2 | 1018.7 | 801.1  | 608.7  | 462.3  | 345.4  | 271.8  | 235.2  | 233.3  |
| 40°   | 1721.9 | 1554.2 | 1246.3 | 975.5  | 755.5  | 562.6  | 412.9  | 295.5  | 226.2  | 192.0  | 189.6  |
| 42.5° | 1638.3 | 1461.1 | 1144.1 | 866.2  | 641.9  | 449.5  | 295.1  | 188.2  | 144.4  | 132.1  | 131.1  |
| 45°   | 1539.5 | 1358.9 | 1033.0 | 760.2  | 531.2  | 336.9  | 191.0  | 129.2  | 112.1  | 106.0  | 105.0  |
| 47.5° | 1437.3 | 1252.9 | 922.2  | 653.8  | 426.7  | 233.3  | 126.9  | 103.1  | 92.7   | 88.9   | 88.4   |
| 50°   | 1328.0 | 1142.2 | 822.0  | 549.7  | 324.5  | 147.8  | 99.8   | 85.1   | 78.9   | 76.5   | 76.0   |
| 52.5° | 1218.7 | 1028.7 | 711.3  | 444.3  | 227.6  | 105.0  | 82.7   | 72.7   | 68.9   | 67.5   | 67.0   |
| 55°   | 1091.9 | 914.2  | 603.4  | 351.1  | 145.9  | 84.6   | 69.4   | 63.2   | 60.8   | 58.4   | 58.4   |
| 57.5° | 975.5  | 798.2  | 503.2  | 259.4  | 96.9   | 69.4   | 59.4   | 55.1   | 52.3   | 50.4   | 49.9   |
| 60°   | 851.0  | 682.8  | 404.8  | 176.3  | 75.5   | 58.0   | 51.8   | 48.5   | 45.6   | 43.7   | 43.2   |
| 62.5° | 726.0  | 568.3  | 313.1  | 106.0  | 60.3   | 48.9   | 45.6   | 42.3   | 39.9   | 38.0   | 38.0   |
| 65°   | 604.4  | 460.4  | 228.5  | 69.8   | 48.9   | 41.8   | 39.0   | 36.6   | 34.7   | 33.3   | 33.3   |
| 67.5° | 486.1  | 354.9  | 154.9  | 53.2   | 39.4   | 35.6   | 33.7   | 31.8   | 29.9   | 29.0   | 29.0   |
| 70°   | 374.9  | 264.2  | 93.1   | 39.9   | 32.3   | 29.9   | 29.0   | 27.1   | 26.1   | 24.7   | 24.7   |
| 72.5° | 274.2  | 183.4  | 50.8   | 30.9   | 26.1   | 24.7   | 24.2   | 22.8   | 21.9   | 20.9   | 20.9   |
| 75°   | 192.4  | 116.4  | 31.8   | 23.8   | 20.4   | 20.0   | 20.0   | 19.0   | 18.1   | 17.1   | 17.1   |
| 77.5° | 119.3  | 64.6   | 21.9   | 17.1   | 15.7   | 15.7   | 15.7   | 14.7   | 13.8   | 13.3   | 12.8   |
| 80°   | 63.7   | 30.9   | 14.7   | 12.4   | 11.4   | 11.4   | 11.4   | 10.9   | 10.0   | 9.5    | 9.0    |
| 82.5° | 26.6   | 14.3   | 9.5    | 8.1    | 7.1    | 7.6    | 7.6    | 6.7    | 5.7    | 4.8    | 4.8    |
| 85°   | 10.0   | 8.1    | 6.7    | 5.7    | 5.2    | 4.8    | 4.3    | 3.3    | 2.4    | 1.9    | 1.9    |
| 87.5° | 6.2    | 5.7    | 5.2    | 4.8    | 4.3    | 3.3    | 2.9    | 1.9    | 1.0    | 0.5    | 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    |

(END OF REPORT)