

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: P200628

Luminaire Tested: **GPC-AF-02-LED-E1-SL4-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200628  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GPC-AF-02-LED-E1-SL4-8030-600  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6345 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

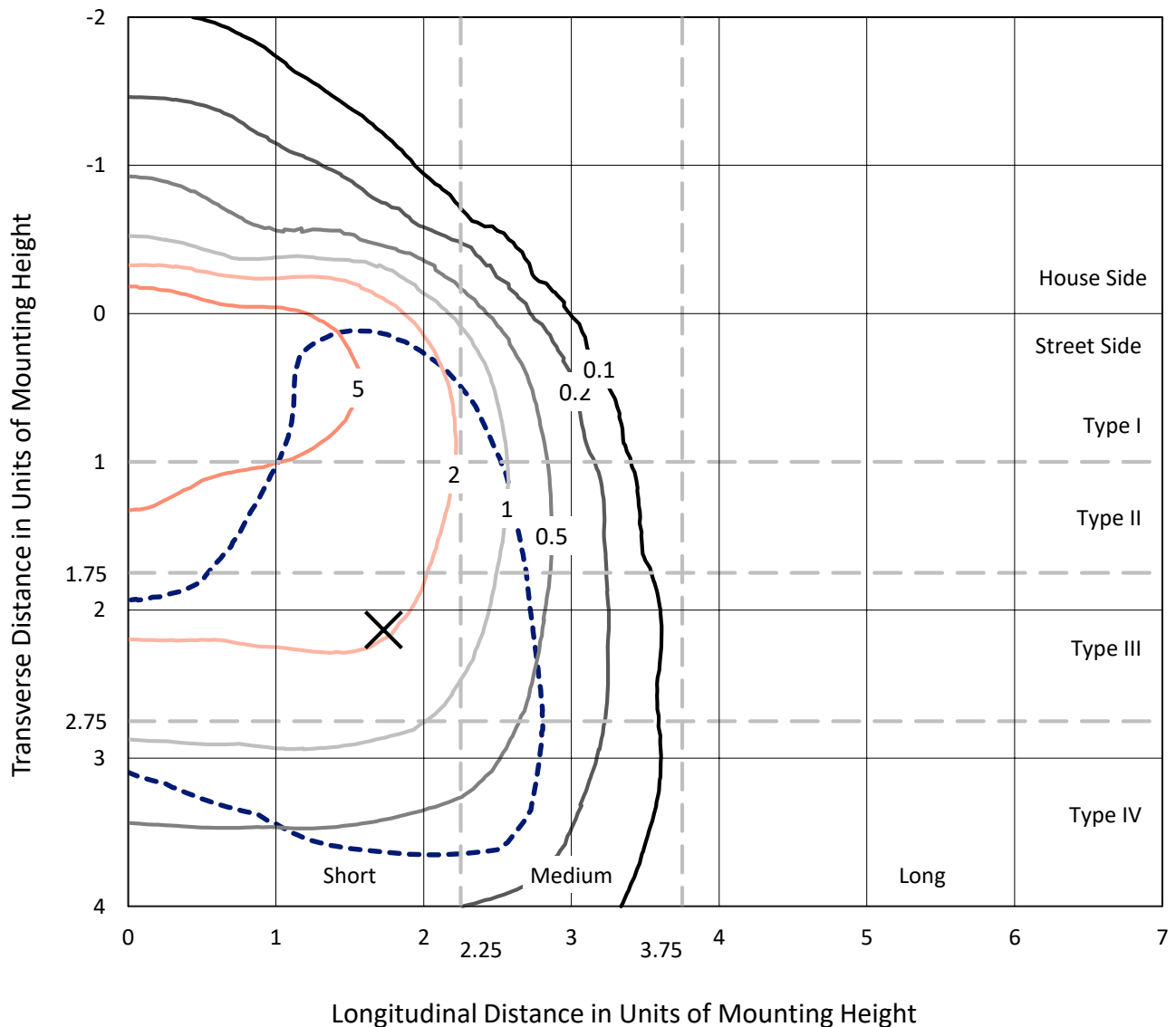
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

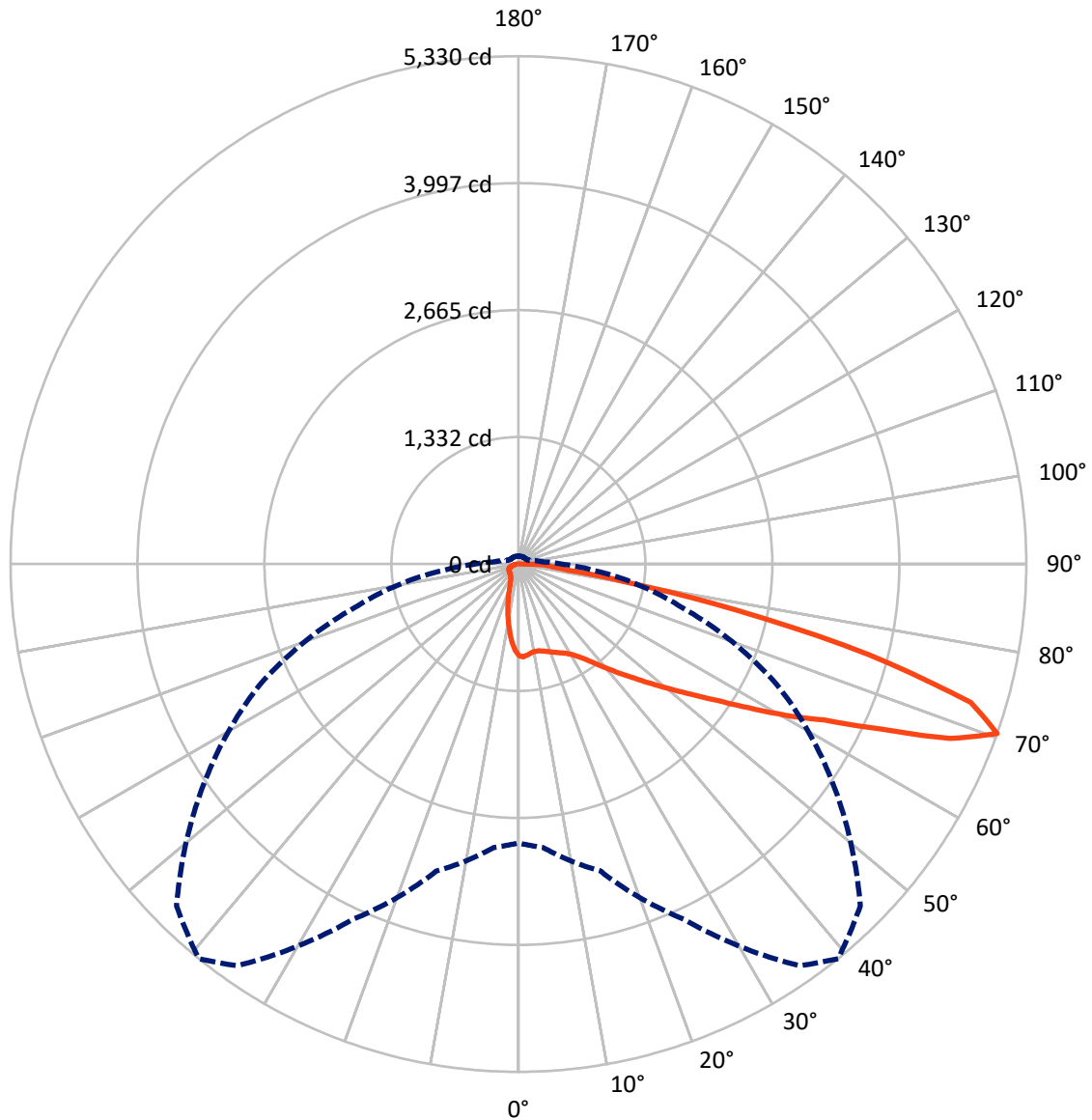
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 721.7    | 0.0    | 721.7  |
|                    | % Fixture | 11.4     | 0.0    | 11.4   |
| <b>Street Side</b> | Lumens    | 5623.4   | 0.0    | 5623.4 |
|                    | % Fixture | 88.6     | 0.0    | 88.6   |
| <b>Total</b>       | Lumens    | 6345.0   | 0.0    | 6345.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 82.7   | 1.3       |
| 10°-20°   | 206.6  | 3.3       |
| 20°-30°   | 321.7  | 5.1       |
| 30°-40°   | 501.2  | 7.9       |
| 40°-50°   | 841.4  | 13.3      |
| 50°-60°   | 1336.7 | 21.1      |
| 60°-70°   | 1783.0 | 28.1      |
| 70°-80°   | 1076.7 | 17.0      |
| 80°-90°   | 194.9  | 3.1       |
| 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°    | 6345.0 | 100.0     |
| 0°-180°   | 6345.0 | 100.0     |



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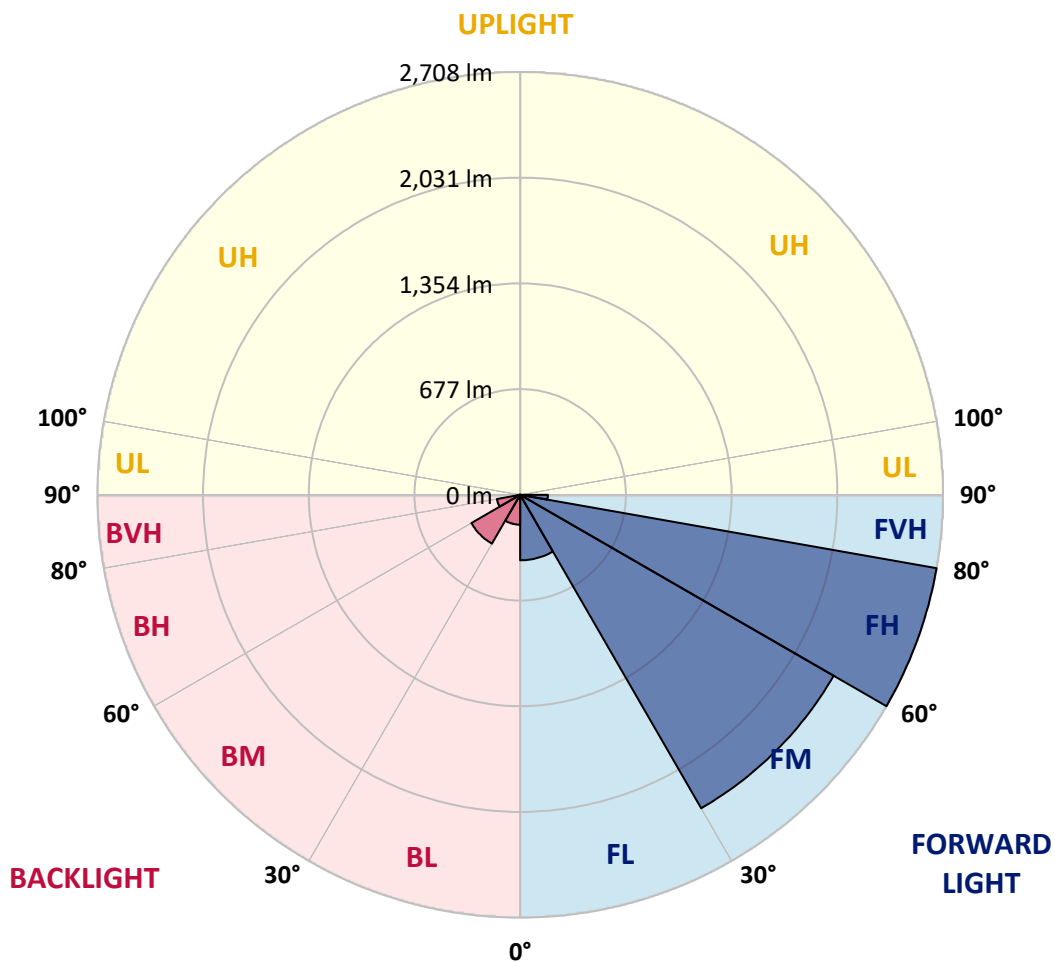
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 419.6  | 6.6       |                         |      |         |
| FM (30°-60°)   | 2318.2 | 36.5      |                         |      |         |
| FH (60°-80°)   | 2708.2 | 42.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 177.3  | 2.8       |                         |      | G2/225  |
| BL (0°-30°)    | 191.4  | 3.0       | B1/500                  |      |         |
| BM (30°-60°)   | 361.1  | 5.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 151.5  | 2.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 17.6   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 39°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 963.3  | 963.3  | 963.3  | 963.3  | 963.3  | 963.3  | 963.3  | 963.3  | 963.3  | 963.3  | 963.3  |
| 2.5°  | 982.0  | 981.7  | 979.1  | 977.1  | 975.5  | 974.9  | 976.2  | 971.3  | 967.1  | 962.0  | 956.5  |
| 5°    | 974.6  | 974.2  | 970.0  | 966.2  | 962.3  | 961.0  | 960.7  | 952.0  | 946.8  | 939.1  | 928.8  |
| 7.5°  | 966.5  | 964.9  | 959.4  | 952.9  | 946.2  | 942.9  | 939.7  | 928.4  | 922.6  | 914.9  | 902.9  |
| 10°   | 958.1  | 956.2  | 951.0  | 944.6  | 938.1  | 933.3  | 927.8  | 916.8  | 910.7  | 904.9  | 891.0  |
| 12.5° | 949.4  | 947.8  | 946.5  | 943.6  | 939.1  | 934.9  | 930.7  | 921.3  | 914.9  | 908.1  | 892.0  |
| 15°   | 948.1  | 947.5  | 950.4  | 952.3  | 949.7  | 947.1  | 942.6  | 934.6  | 927.8  | 921.0  | 900.0  |
| 17.5° | 958.4  | 958.1  | 965.5  | 970.7  | 969.4  | 964.9  | 958.8  | 949.7  | 944.2  | 938.4  | 912.3  |
| 20°   | 981.0  | 982.6  | 991.7  | 998.4  | 992.0  | 985.5  | 975.5  | 962.9  | 960.0  | 957.5  | 924.9  |
| 22.5° | 1023.6 | 1025.2 | 1031.7 | 1034.2 | 1017.5 | 1008.1 | 994.2  | 978.1  | 976.2  | 978.1  | 940.0  |
| 25°   | 1090.0 | 1088.4 | 1087.5 | 1077.8 | 1047.1 | 1032.6 | 1014.9 | 998.1  | 999.1  | 1007.8 | 961.3  |
| 27.5° | 1178.1 | 1169.4 | 1155.9 | 1126.8 | 1078.1 | 1062.0 | 1040.4 | 1024.9 | 1031.0 | 1047.8 | 993.3  |
| 30°   | 1269.4 | 1259.7 | 1228.4 | 1181.0 | 1118.8 | 1101.0 | 1076.8 | 1059.4 | 1075.5 | 1102.0 | 1035.9 |
| 32.5° | 1353.9 | 1352.6 | 1306.8 | 1245.9 | 1174.9 | 1159.4 | 1135.2 | 1115.5 | 1141.7 | 1182.0 | 1099.7 |
| 35°   | 1446.2 | 1449.1 | 1394.3 | 1321.0 | 1250.7 | 1234.6 | 1217.2 | 1202.3 | 1237.2 | 1292.6 | 1192.3 |
| 37.5° | 1544.9 | 1550.7 | 1485.9 | 1403.3 | 1337.2 | 1330.4 | 1320.1 | 1313.6 | 1367.5 | 1444.3 | 1321.7 |
| 40°   | 1676.8 | 1671.0 | 1581.0 | 1496.2 | 1443.3 | 1443.0 | 1439.7 | 1447.5 | 1537.2 | 1642.3 | 1487.8 |
| 42.5° | 1818.1 | 1801.0 | 1682.0 | 1595.9 | 1559.7 | 1570.7 | 1577.2 | 1608.8 | 1741.4 | 1883.0 | 1690.4 |
| 45°   | 1970.4 | 1932.0 | 1786.9 | 1701.4 | 1689.1 | 1712.3 | 1734.3 | 1803.0 | 1981.7 | 2156.9 | 1912.3 |
| 47.5° | 2092.0 | 2054.9 | 1895.2 | 1812.0 | 1838.8 | 1874.0 | 1916.2 | 2024.9 | 2250.7 | 2439.8 | 2131.4 |
| 50°   | 2187.8 | 2163.6 | 2004.6 | 1941.1 | 2003.6 | 2057.8 | 2126.9 | 2276.2 | 2530.8 | 2715.3 | 2334.3 |
| 52.5° | 2280.7 | 2262.7 | 2114.9 | 2073.3 | 2197.2 | 2272.0 | 2365.9 | 2545.9 | 2817.9 | 2986.3 | 2505.0 |
| 55°   | 2364.6 | 2351.7 | 2233.6 | 2238.2 | 2424.9 | 2522.4 | 2640.4 | 2853.0 | 3130.8 | 3227.9 | 2649.5 |
| 57.5° | 2459.1 | 2442.7 | 2369.1 | 2444.9 | 2717.5 | 2844.0 | 2997.6 | 3198.2 | 3424.3 | 3442.7 | 2759.5 |
| 60°   | 2554.3 | 2540.1 | 2519.5 | 2683.7 | 3089.2 | 3222.1 | 3367.6 | 3532.7 | 3722.1 | 3609.5 | 2753.0 |
| 62.5° | 2636.9 | 2638.5 | 2675.0 | 2934.3 | 3453.1 | 3606.9 | 3784.4 | 3947.6 | 3991.5 | 3638.6 | 2549.5 |
| 65°   | 2776.9 | 2802.4 | 2911.1 | 3289.2 | 3965.3 | 4171.2 | 4388.9 | 4362.8 | 4066.0 | 3367.2 | 2113.0 |
| 67.5° | 2943.4 | 2988.2 | 3208.5 | 3762.1 | 4612.8 | 4886.0 | 4970.2 | 4456.7 | 3767.6 | 2737.2 | 1506.2 |
| 70°   | 2926.6 | 2988.2 | 3336.9 | 4114.7 | 5146.4 | 5329.6 | 5074.1 | 4033.4 | 2991.7 | 1788.1 | 800.0  |
| 72.5° | 2598.8 | 2686.9 | 3075.3 | 3953.1 | 4978.3 | 4962.2 | 4405.0 | 3006.9 | 1777.5 | 718.1  | 312.6  |
| 75°   | 1980.7 | 2069.8 | 2404.0 | 3123.0 | 3934.7 | 3799.2 | 3125.6 | 1661.0 | 674.5  | 285.2  | 197.1  |
| 77.5° | 1139.4 | 1208.4 | 1466.5 | 1915.2 | 2496.2 | 2357.2 | 1739.8 | 738.7  | 328.4  | 198.7  | 153.9  |
| 80°   | 636.2  | 674.5  | 831.3  | 971.7  | 1223.3 | 1121.3 | 778.4  | 459.1  | 245.2  | 144.2  | 118.7  |
| 82.5° | 502.9  | 537.1  | 672.3  | 612.9  | 558.7  | 515.5  | 447.1  | 408.7  | 195.8  | 91.0   | 71.0   |
| 85°   | 439.4  | 472.0  | 569.1  | 482.6  | 381.6  | 350.0  | 363.2  | 402.3  | 152.3  | 54.8   | 60.6   |
| 87.5° | 407.1  | 450.7  | 507.1  | 372.0  | 297.1  | 263.2  | 335.2  | 441.0  | 49.0   | 34.2   | 24.5   |
| 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):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 963.3  | 963.3  | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 |
| 2.5°  | 951.7  | 946.5  | 938.1 | 930.7 | 919.1 | 912.9 | 906.2 | 901.3 | 897.5 | 894.2 | 899.4 |
| 5°    | 922.3  | 912.6  | 894.9 | 875.8 | 853.3 | 835.5 | 820.7 | 806.8 | 797.1 | 790.7 | 795.2 |
| 7.5°  | 894.6  | 878.7  | 851.0 | 816.5 | 777.8 | 744.9 | 717.8 | 693.9 | 677.4 | 666.8 | 671.0 |
| 10°   | 878.7  | 859.1  | 816.2 | 762.0 | 704.9 | 653.6 | 611.0 | 574.2 | 548.7 | 534.2 | 536.5 |
| 12.5° | 874.9  | 849.4  | 790.0 | 715.5 | 637.4 | 566.2 | 506.2 | 455.2 | 419.4 | 400.7 | 401.3 |
| 15°   | 877.8  | 845.2  | 765.5 | 671.0 | 572.3 | 482.3 | 407.4 | 345.5 | 303.9 | 282.6 | 282.3 |
| 17.5° | 882.6  | 842.0  | 739.7 | 622.9 | 506.2 | 401.6 | 318.1 | 257.4 | 220.7 | 203.6 | 202.3 |
| 20°   | 887.8  | 836.8  | 710.7 | 571.0 | 437.4 | 326.8 | 249.0 | 201.6 | 178.4 | 169.0 | 168.4 |
| 22.5° | 895.2  | 832.3  | 680.7 | 516.2 | 370.0 | 266.1 | 204.8 | 172.9 | 160.7 | 155.8 | 155.2 |
| 25°   | 907.1  | 830.0  | 648.7 | 459.1 | 309.4 | 222.6 | 178.4 | 158.7 | 151.6 | 148.4 | 148.1 |
| 27.5° | 927.1  | 833.3  | 618.7 | 403.6 | 260.0 | 193.2 | 163.6 | 151.6 | 146.5 | 143.6 | 143.2 |
| 30°   | 952.9  | 843.3  | 587.1 | 351.0 | 221.6 | 173.2 | 154.5 | 146.8 | 142.6 | 139.7 | 139.7 |
| 32.5° | 995.9  | 860.0  | 553.9 | 305.5 | 194.2 | 159.4 | 147.7 | 142.6 | 139.0 | 136.8 | 136.5 |
| 35°   | 1059.1 | 891.7  | 522.9 | 267.8 | 174.5 | 149.4 | 141.9 | 138.1 | 135.5 | 134.2 | 134.2 |
| 37.5° | 1151.0 | 941.7  | 495.5 | 240.7 | 162.6 | 142.6 | 136.5 | 133.6 | 131.9 | 131.9 | 131.9 |
| 40°   | 1274.6 | 1010.7 | 473.2 | 222.6 | 155.8 | 137.7 | 132.3 | 130.0 | 129.0 | 129.4 | 129.4 |
| 42.5° | 1427.2 | 1100.4 | 458.4 | 210.0 | 152.6 | 134.8 | 129.4 | 127.4 | 126.5 | 126.1 | 126.5 |
| 45°   | 1601.0 | 1202.3 | 456.8 | 200.7 | 149.4 | 132.9 | 127.4 | 125.5 | 123.6 | 122.3 | 122.3 |
| 47.5° | 1770.1 | 1305.9 | 470.0 | 197.4 | 145.8 | 130.7 | 125.8 | 123.9 | 121.0 | 118.1 | 118.1 |
| 50°   | 1919.4 | 1393.9 | 487.8 | 198.7 | 144.5 | 127.4 | 123.2 | 122.3 | 117.7 | 114.5 | 114.2 |
| 52.5° | 2038.2 | 1461.7 | 502.3 | 202.6 | 145.8 | 125.2 | 120.0 | 120.3 | 115.5 | 111.9 | 111.6 |
| 55°   | 2133.3 | 1506.2 | 498.4 | 206.5 | 148.7 | 123.9 | 117.1 | 117.7 | 113.9 | 110.3 | 110.3 |
| 57.5° | 2174.9 | 1489.7 | 455.5 | 203.2 | 151.0 | 124.2 | 114.8 | 117.4 | 114.2 | 111.0 | 111.0 |
| 60°   | 2085.6 | 1343.6 | 375.2 | 189.0 | 148.1 | 123.2 | 113.9 | 118.7 | 118.4 | 115.2 | 114.8 |
| 62.5° | 1815.2 | 1082.0 | 291.0 | 168.1 | 138.1 | 118.4 | 111.3 | 118.4 | 121.9 | 121.0 | 120.7 |
| 65°   | 1399.1 | 770.7  | 222.3 | 145.5 | 124.5 | 110.3 | 104.5 | 111.0 | 115.8 | 117.1 | 116.8 |
| 67.5° | 908.1  | 472.3  | 171.3 | 124.2 | 109.4 | 101.0 | 95.8  | 98.7  | 99.7  | 99.7  | 99.0  |
| 70°   | 446.5  | 254.2  | 136.5 | 104.5 | 93.9  | 91.0  | 88.1  | 86.5  | 84.8  | 83.6  | 83.6  |
| 72.5° | 220.3  | 166.1  | 112.3 | 88.4  | 81.0  | 79.7  | 79.0  | 77.1  | 75.8  | 74.2  | 73.6  |
| 75°   | 162.9  | 135.2  | 95.5  | 74.5  | 69.7  | 68.4  | 69.7  | 68.1  | 67.7  | 66.5  | 65.8  |
| 77.5° | 133.9  | 115.2  | 82.3  | 63.9  | 59.7  | 57.4  | 59.4  | 59.7  | 60.0  | 58.1  | 57.4  |
| 80°   | 108.7  | 97.4   | 68.7  | 52.9  | 49.0  | 47.4  | 48.7  | 51.3  | 51.9  | 49.0  | 47.7  |
| 82.5° | 78.4   | 79.7   | 55.5  | 41.3  | 38.1  | 36.8  | 39.4  | 42.6  | 43.2  | 39.0  | 38.1  |
| 85°   | 65.8   | 66.5   | 42.6  | 29.4  | 26.1  | 24.2  | 28.4  | 31.6  | 33.9  | 29.7  | 28.7  |
| 87.5° | 27.4   | 39.0   | 24.5  | 16.5  | 14.5  | 12.6  | 15.2  | 16.8  | 20.3  | 18.7  | 18.4  |
| 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)