

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: P194839

Luminaire Tested: **GLEON-AF-01-LED-E1-T3R-7060-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194839  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-01-LED-E1-T3R-7060-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6990 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
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



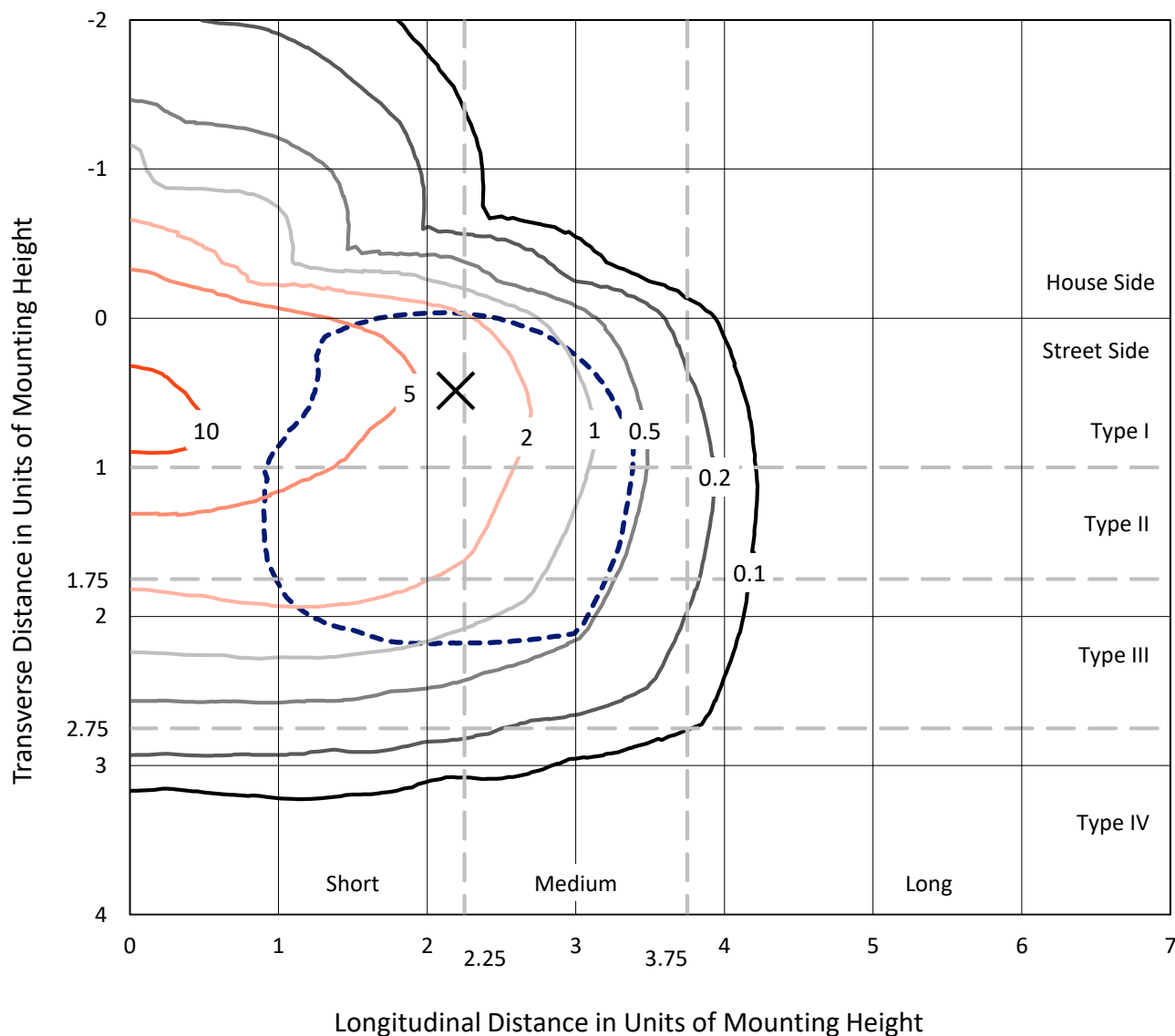
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

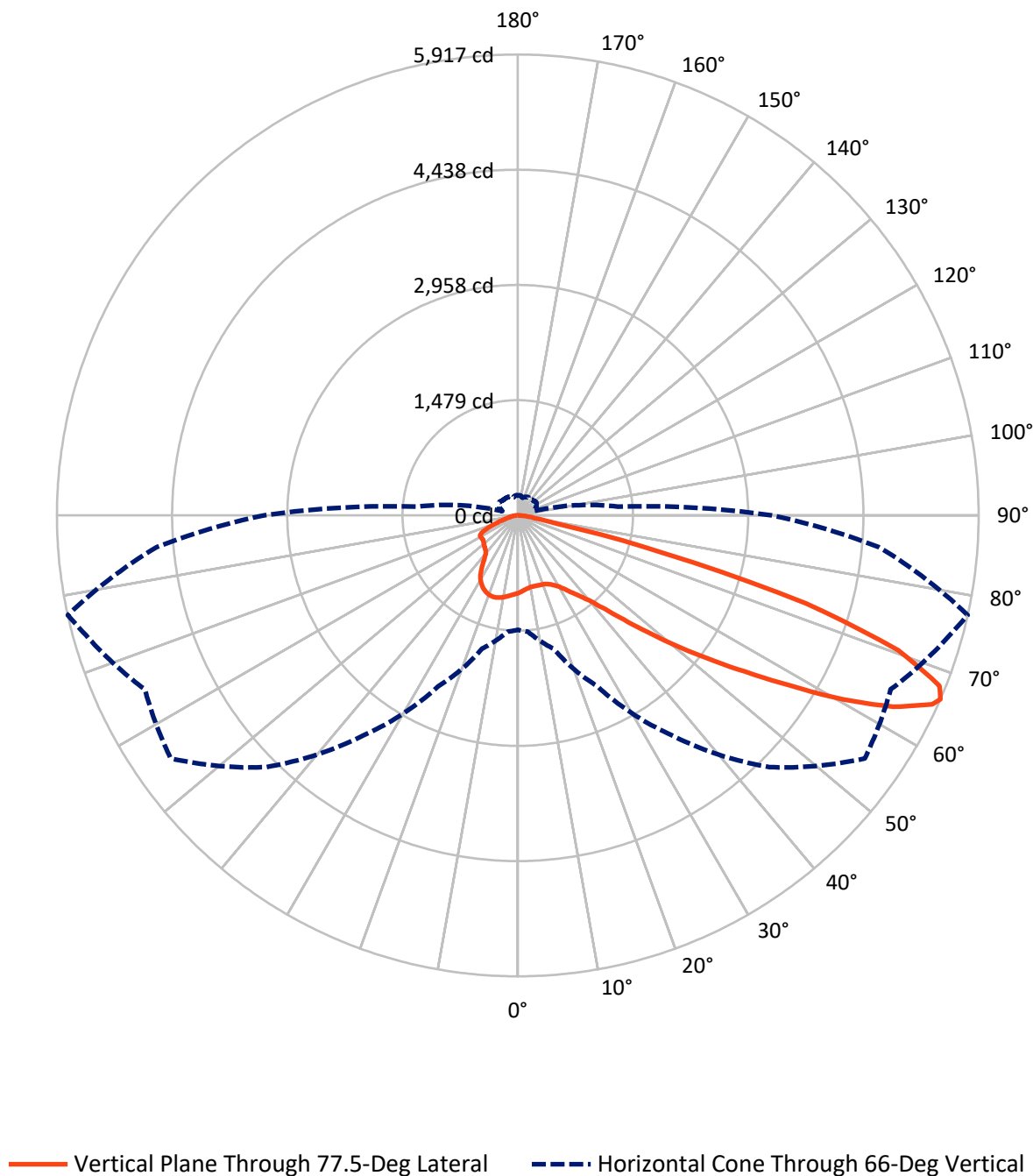


Based on 10 foot mounting height. Maximum calculated value = 12.3 fc  
 Type III - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1194.2   | 0.0    | 1194.2 |
|                    | % Fixture | 17.1     | 0.0    | 17.1   |
| <b>Street Side</b> | Lumens    | 5795.8   | 0.0    | 5795.8 |
|                    | % Fixture | 82.9     | 0.0    | 82.9   |
| <b>Total</b>       | Lumens    | 6990.0   | 0.0    | 6990.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 89.0   | 1.3       |
| 10°-20°   | 251.1  | 3.6       |
| 20°-30°   | 428.5  | 6.1       |
| 30°-40°   | 685.9  | 9.8       |
| 40°-50°   | 1059.7 | 15.2      |
| 50°-60°   | 1503.0 | 21.5      |
| 60°-70°   | 2010.6 | 28.8      |
| 70°-80°   | 873.2  | 12.5      |
| 80°-90°   | 89.0   | 1.3       |
| 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°    | 6990.0 | 100.0     |
| 0°-180°   | 6990.0 | 100.0     |

**Coefficient of Utilization**



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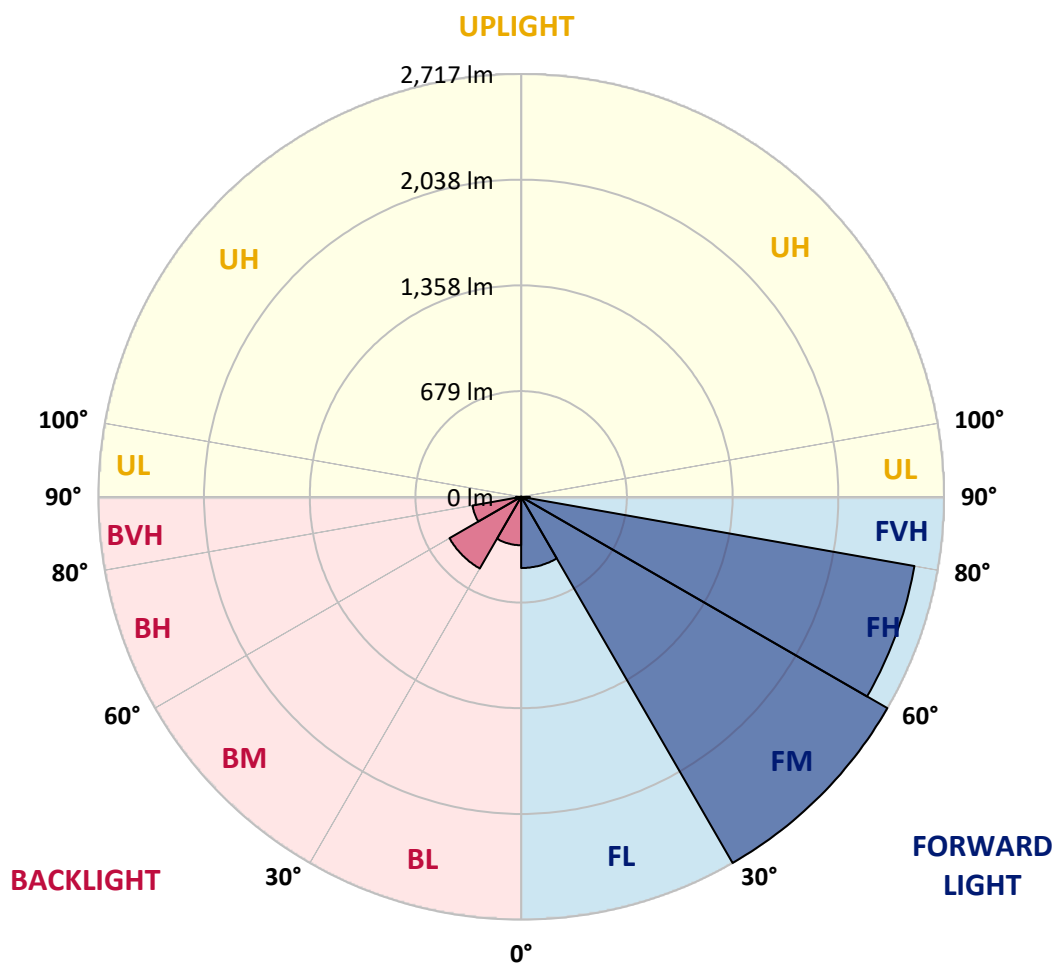
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 457.5  | 6.5       |                         |      |         |
| FM   | (30°-60°)   | 2716.7 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 2565.8 | 36.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 55.8   | 0.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 311.0  | 4.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 531.9  | 7.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 318.0  | 4.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 33.2   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 77.5°  | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 996.1  | 996.1  | 996.1  | 996.1  | 996.1  | 996.1  | 996.1  | 996.1  | 996.1  | 996.1  | 996.1  |
| 2.5°  | 881.2  | 887.1  | 892.1  | 896.7  | 905.9  | 921.1  | 938.6  | 952.8  | 973.3  | 977.3  | 988.2  |
| 5°    | 800.3  | 800.3  | 804.2  | 811.2  | 823.7  | 846.5  | 870.3  | 902.0  | 946.6  | 957.1  | 986.2  |
| 7.5°  | 761.0  | 761.3  | 763.6  | 769.5  | 780.4  | 801.2  | 827.3  | 864.7  | 925.1  | 942.6  | 992.1  |
| 10°   | 775.5  | 772.2  | 767.2  | 764.3  | 765.9  | 778.1  | 802.9  | 844.5  | 911.9  | 934.3  | 1005.4 |
| 12.5° | 856.7  | 850.5  | 833.3  | 810.5  | 788.7  | 779.8  | 794.3  | 834.9  | 906.3  | 932.4  | 1022.9 |
| 15°   | 989.5  | 986.9  | 954.8  | 907.6  | 854.8  | 810.5  | 800.6  | 831.3  | 906.9  | 934.7  | 1043.7 |
| 17.5° | 1156.0 | 1152.3 | 1110.1 | 1041.4 | 955.2  | 869.0  | 822.7  | 834.3  | 909.2  | 938.6  | 1063.8 |
| 20°   | 1324.1 | 1312.8 | 1267.3 | 1185.4 | 1074.7 | 948.5  | 859.4  | 841.9  | 912.2  | 942.9  | 1085.0 |
| 22.5° | 1449.6 | 1440.3 | 1399.4 | 1319.8 | 1192.3 | 1040.7 | 908.6  | 855.1  | 921.8  | 955.5  | 1111.0 |
| 25°   | 1559.9 | 1560.5 | 1519.9 | 1443.0 | 1311.2 | 1138.5 | 972.0  | 890.4  | 946.2  | 981.2  | 1146.7 |
| 27.5° | 1696.3 | 1688.4 | 1650.4 | 1574.1 | 1428.8 | 1237.2 | 1048.6 | 939.0  | 982.6  | 1017.9 | 1193.6 |
| 30°   | 1859.4 | 1853.8 | 1809.9 | 1723.4 | 1559.2 | 1343.2 | 1136.1 | 995.4  | 1029.5 | 1066.1 | 1255.0 |
| 32.5° | 2051.3 | 2048.7 | 2003.1 | 1891.8 | 1709.8 | 1468.1 | 1238.9 | 1070.1 | 1099.5 | 1137.5 | 1343.2 |
| 35°   | 2276.6 | 2276.9 | 2223.1 | 2089.3 | 1874.6 | 1613.4 | 1355.4 | 1166.2 | 1184.7 | 1224.3 | 1448.3 |
| 37.5° | 2415.3 | 2432.1 | 2412.0 | 2275.6 | 2061.2 | 1775.9 | 1506.7 | 1293.7 | 1281.8 | 1321.8 | 1560.9 |
| 40°   | 2445.0 | 2465.5 | 2529.2 | 2459.9 | 2270.0 | 1954.9 | 1640.8 | 1416.2 | 1401.4 | 1450.2 | 1705.9 |
| 42.5° | 2403.4 | 2431.8 | 2566.6 | 2615.4 | 2491.6 | 2175.5 | 1821.1 | 1598.2 | 1579.4 | 1645.1 | 1886.2 |
| 45°   | 2378.6 | 2399.8 | 2555.7 | 2696.4 | 2683.8 | 2424.9 | 2050.7 | 1826.7 | 1819.8 | 1906.0 | 2094.3 |
| 47.5° | 2335.7 | 2354.9 | 2504.8 | 2715.2 | 2796.8 | 2653.4 | 2326.5 | 2106.2 | 2119.7 | 2232.7 | 2329.1 |
| 50°   | 2358.8 | 2366.7 | 2448.0 | 2667.3 | 2829.5 | 2820.9 | 2634.6 | 2429.8 | 2476.1 | 2617.1 | 2595.0 |
| 52.5° | 2355.5 | 2376.0 | 2441.4 | 2588.7 | 2833.8 | 2924.3 | 2938.1 | 2790.8 | 2888.3 | 3050.1 | 2889.9 |
| 55°   | 1904.4 | 1942.0 | 2363.8 | 2568.9 | 2848.9 | 3025.6 | 3208.3 | 3171.3 | 3352.9 | 3541.5 | 3222.8 |
| 57.5° | 1818.5 | 1842.3 | 2076.1 | 2610.5 | 2929.5 | 3219.2 | 3508.8 | 3590.1 | 3893.9 | 4112.9 | 3628.4 |
| 60°   | 1801.6 | 1831.0 | 2073.1 | 2661.4 | 3093.0 | 3534.6 | 3954.4 | 4097.1 | 4552.2 | 4792.0 | 4098.7 |
| 62.5° | 1749.1 | 1780.8 | 2053.6 | 2654.7 | 3325.2 | 3970.9 | 4524.8 | 4636.1 | 5176.4 | 5409.6 | 4492.1 |
| 65°   | 1582.7 | 1612.4 | 1894.8 | 2548.1 | 3481.8 | 4436.6 | 5199.8 | 5130.2 | 5669.2 | 5844.5 | 4688.2 |
| 66°   | 1468.7 | 1497.8 | 1769.6 | 2422.6 | 3445.4 | 4568.7 | 5439.0 | 5283.1 | 5779.5 | 5916.9 | 4649.9 |
| 67.5° | 1260.3 | 1283.1 | 1526.5 | 2141.5 | 3252.2 | 4605.7 | 5640.1 | 5398.0 | 5791.0 | 5839.6 | 4431.0 |
| 70°   | 796.3  | 802.9  | 992.1  | 1478.3 | 2461.9 | 3994.3 | 5333.9 | 5112.7 | 5313.5 | 5182.0 | 3714.6 |
| 72.5° | 345.5  | 343.2  | 476.3  | 752.0  | 1393.8 | 2680.2 | 4314.7 | 4218.6 | 4168.1 | 3868.2 | 2600.3 |
| 75°   | 192.2  | 194.9  | 247.4  | 349.1  | 566.4  | 1316.5 | 2822.5 | 2701.0 | 2280.5 | 1946.0 | 1179.1 |
| 77.5° | 154.2  | 157.9  | 205.1  | 247.7  | 254.3  | 459.1  | 1320.8 | 1074.7 | 647.0  | 519.2  | 327.6  |
| 80°   | 121.9  | 128.5  | 179.0  | 192.9  | 171.4  | 189.2  | 426.7  | 341.2  | 256.0  | 234.8  | 169.8  |
| 82.5° | 96.4   | 101.1  | 153.6  | 146.0  | 119.9  | 127.5  | 204.4  | 199.2  | 166.5  | 151.6  | 98.1   |
| 85°   | 69.4   | 77.9   | 126.2  | 110.0  | 78.6   | 85.9   | 135.7  | 130.1  | 95.4   | 77.9   | 43.3   |
| 87.5° | 28.4   | 37.0   | 89.2   | 73.0   | 43.9   | 40.0   | 67.7   | 63.7   | 45.2   | 33.0   | 21.5   |
| 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°    | 996.1  | 996.1  | 996.1  | 996.1  | 996.1  | 996.1  | 996.1  | 996.1  | 996.1  | 996.1  | 996.1  |
| 2.5°  | 995.1  | 1003.0 | 1013.3 | 1019.6 | 1022.9 | 1025.2 | 1028.8 | 1028.5 | 1029.5 | 1029.8 | 1031.1 |
| 5°    | 1001.7 | 1014.9 | 1029.8 | 1033.8 | 1033.8 | 1030.1 | 1026.5 | 1020.5 | 1018.2 | 1017.6 | 1018.2 |
| 7.5°  | 1018.9 | 1033.4 | 1046.3 | 1041.7 | 1031.8 | 1017.2 | 998.4  | 981.9  | 973.0  | 970.0  | 969.4  |
| 10°   | 1040.7 | 1058.2 | 1063.5 | 1046.0 | 1016.9 | 981.9  | 944.6  | 917.5  | 902.0  | 897.7  | 896.4  |
| 12.5° | 1067.1 | 1083.6 | 1076.4 | 1039.4 | 985.5  | 929.1  | 877.5  | 834.3  | 801.9  | 791.7  | 791.0  |
| 15°   | 1096.2 | 1109.1 | 1083.6 | 1018.9 | 938.6  | 855.4  | 763.6  | 689.0  | 648.7  | 635.8  | 634.8  |
| 17.5° | 1123.3 | 1129.9 | 1079.3 | 983.2  | 869.6  | 734.9  | 613.0  | 555.5  | 541.7  | 545.0  | 545.6  |
| 20°   | 1146.4 | 1146.4 | 1064.8 | 932.0  | 761.0  | 576.0  | 499.0  | 498.1  | 508.0  | 517.9  | 519.9  |
| 22.5° | 1171.8 | 1156.6 | 1039.4 | 859.7  | 607.0  | 471.3  | 460.1  | 469.3  | 480.5  | 491.4  | 493.1  |
| 25°   | 1203.2 | 1164.9 | 1004.0 | 750.1  | 477.2  | 428.0  | 432.3  | 439.9  | 445.5  | 452.5  | 453.5  |
| 27.5° | 1238.2 | 1175.4 | 957.5  | 599.1  | 414.2  | 401.0  | 404.3  | 406.9  | 406.2  | 408.9  | 409.5  |
| 30°   | 1280.1 | 1187.7 | 893.7  | 468.3  | 388.1  | 377.8  | 371.9  | 369.6  | 369.6  | 373.9  | 375.5  |
| 32.5° | 1336.3 | 1205.8 | 802.2  | 401.3  | 375.5  | 361.3  | 342.2  | 333.6  | 336.9  | 351.4  | 354.7  |
| 35°   | 1398.1 | 1225.3 | 678.4  | 378.5  | 372.9  | 353.7  | 324.0  | 308.1  | 308.5  | 322.0  | 326.3  |
| 37.5° | 1465.4 | 1250.1 | 542.6  | 374.2  | 378.8  | 354.1  | 314.4  | 292.6  | 283.7  | 283.7  | 285.4  |
| 40°   | 1551.6 | 1275.5 | 439.3  | 377.2  | 391.4  | 358.0  | 309.5  | 280.4  | 255.3  | 256.0  | 257.3  |
| 42.5° | 1663.9 | 1297.3 | 383.8  | 383.4  | 406.6  | 363.3  | 309.1  | 264.2  | 242.4  | 257.3  | 270.8  |
| 45°   | 1788.8 | 1308.2 | 359.3  | 389.1  | 418.8  | 366.6  | 303.9  | 261.6  | 244.1  | 288.3  | 314.1  |
| 47.5° | 1932.4 | 1301.9 | 345.8  | 391.0  | 421.8  | 366.6  | 297.9  | 267.9  | 255.6  | 333.9  | 364.0  |
| 50°   | 2090.0 | 1283.8 | 332.6  | 387.1  | 420.8  | 365.9  | 303.5  | 274.1  | 259.9  | 341.8  | 362.6  |
| 52.5° | 2275.3 | 1268.6 | 318.7  | 378.5  | 413.8  | 362.3  | 310.1  | 271.5  | 246.4  | 310.8  | 325.3  |
| 55°   | 2486.6 | 1272.9 | 303.2  | 366.3  | 402.9  | 355.4  | 307.8  | 260.9  | 232.2  | 273.8  | 282.7  |
| 57.5° | 2756.8 | 1324.1 | 284.7  | 350.8  | 388.1  | 343.8  | 299.6  | 256.0  | 227.9  | 248.4  | 253.7  |
| 60°   | 3058.3 | 1413.2 | 261.6  | 335.2  | 369.6  | 325.3  | 293.3  | 258.3  | 229.9  | 246.4  | 249.0  |
| 62.5° | 3279.6 | 1465.1 | 241.8  | 312.4  | 344.5  | 304.8  | 285.4  | 261.2  | 235.2  | 253.3  | 252.7  |
| 65°   | 3339.7 | 1379.9 | 217.0  | 279.1  | 310.5  | 283.4  | 275.4  | 264.5  | 237.5  | 258.9  | 256.0  |
| 66°   | 3255.5 | 1288.1 | 206.1  | 263.6  | 293.3  | 272.8  | 270.5  | 264.2  | 236.5  | 259.6  | 254.6  |
| 67.5° | 3051.1 | 1099.8 | 187.3  | 240.8  | 265.9  | 257.0  | 262.6  | 261.2  | 233.8  | 258.9  | 252.0  |
| 70°   | 2488.3 | 750.4  | 160.2  | 200.5  | 221.3  | 226.2  | 247.4  | 250.7  | 225.2  | 247.4  | 232.2  |
| 72.5° | 1738.6 | 457.1  | 141.7  | 155.6  | 179.0  | 192.9  | 226.6  | 236.1  | 213.7  | 216.0  | 201.5  |
| 75°   | 840.2  | 242.8  | 128.5  | 120.6  | 139.0  | 161.2  | 201.5  | 216.3  | 195.5  | 180.7  | 175.4  |
| 77.5° | 261.9  | 148.3  | 109.0  | 97.1   | 109.0  | 130.1  | 168.4  | 189.6  | 174.1  | 151.3  | 149.3  |
| 80°   | 140.7  | 109.0  | 83.9   | 77.9   | 86.2   | 102.1  | 132.4  | 158.2  | 149.6  | 135.7  | 121.2  |
| 82.5° | 92.8   | 70.7   | 62.1   | 60.4   | 65.7   | 77.9   | 98.4   | 131.1  | 131.1  | 116.3  | 84.6   |
| 85°   | 47.9   | 43.3   | 42.6   | 42.6   | 45.9   | 51.9   | 67.0   | 101.1  | 107.7  | 61.4   | 50.9   |
| 87.5° | 23.8   | 24.8   | 23.1   | 24.1   | 25.8   | 25.4   | 32.0   | 50.9   | 60.8   | 37.3   | 31.0   |
| 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)