

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: P946276

Luminaire Tested: **GALN-SB2A-722-U-T3R**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P946276  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-722-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 7608 lumens  
Efficiency: N/A  
Efficacy: 132.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
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

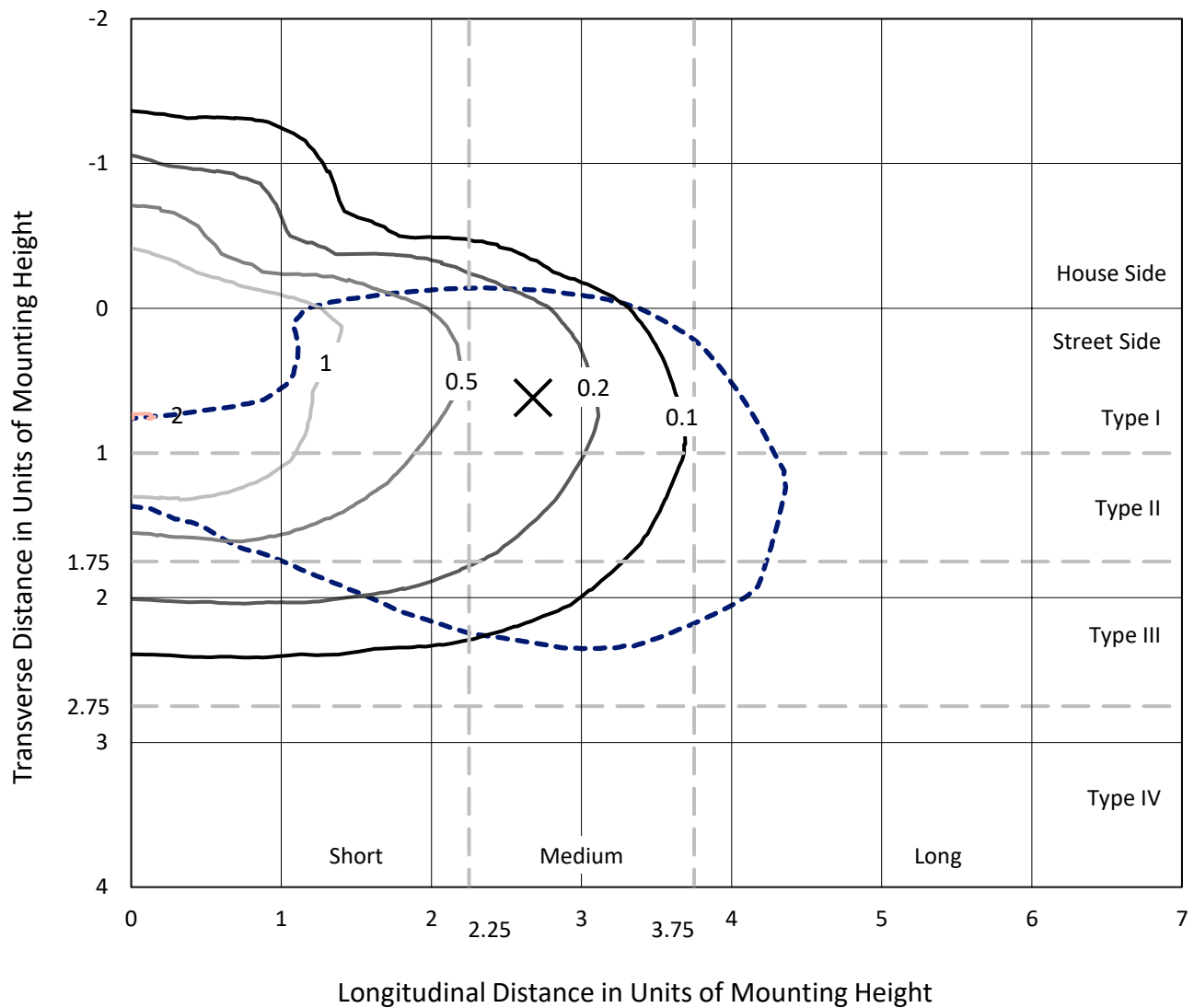


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

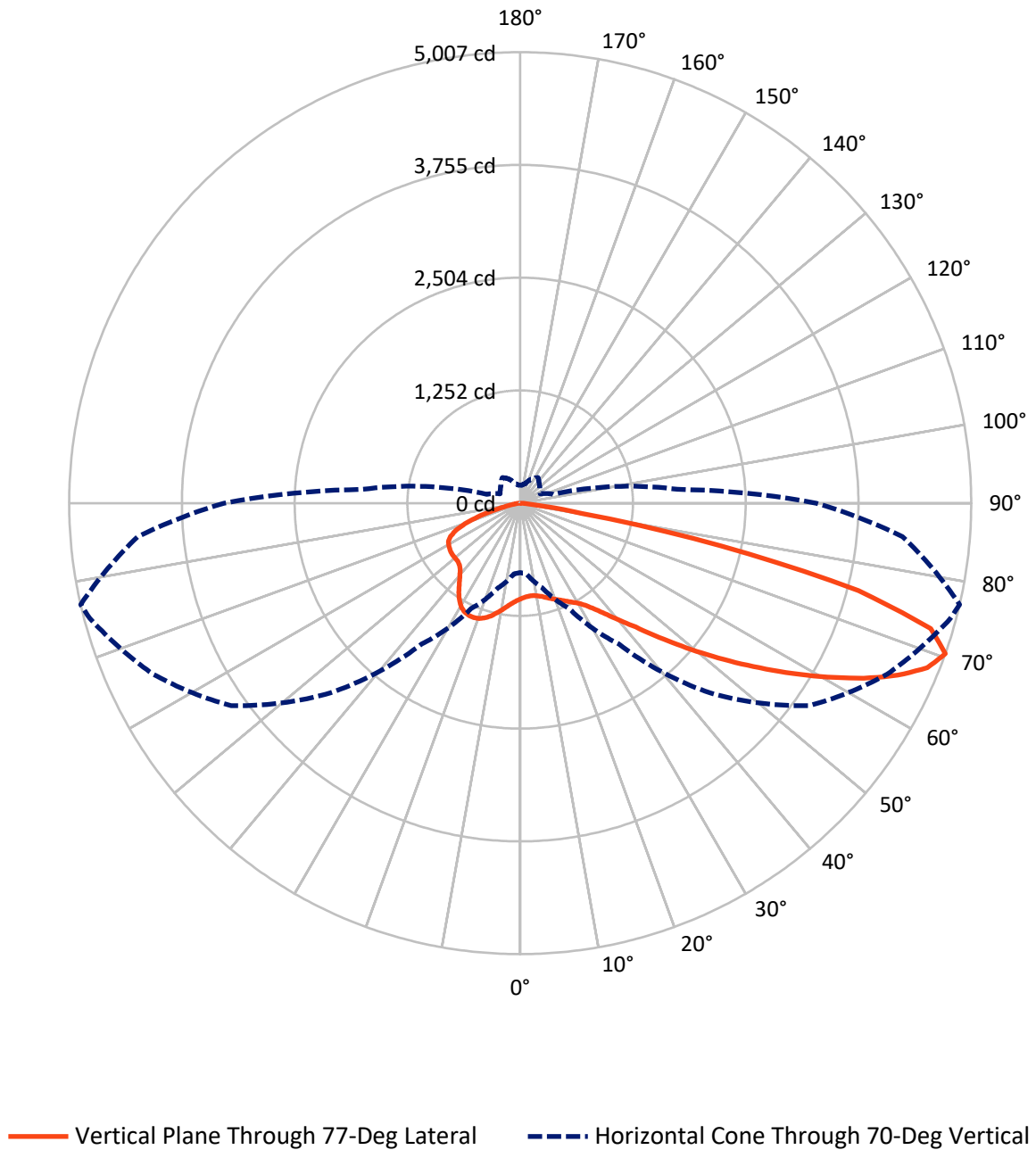


Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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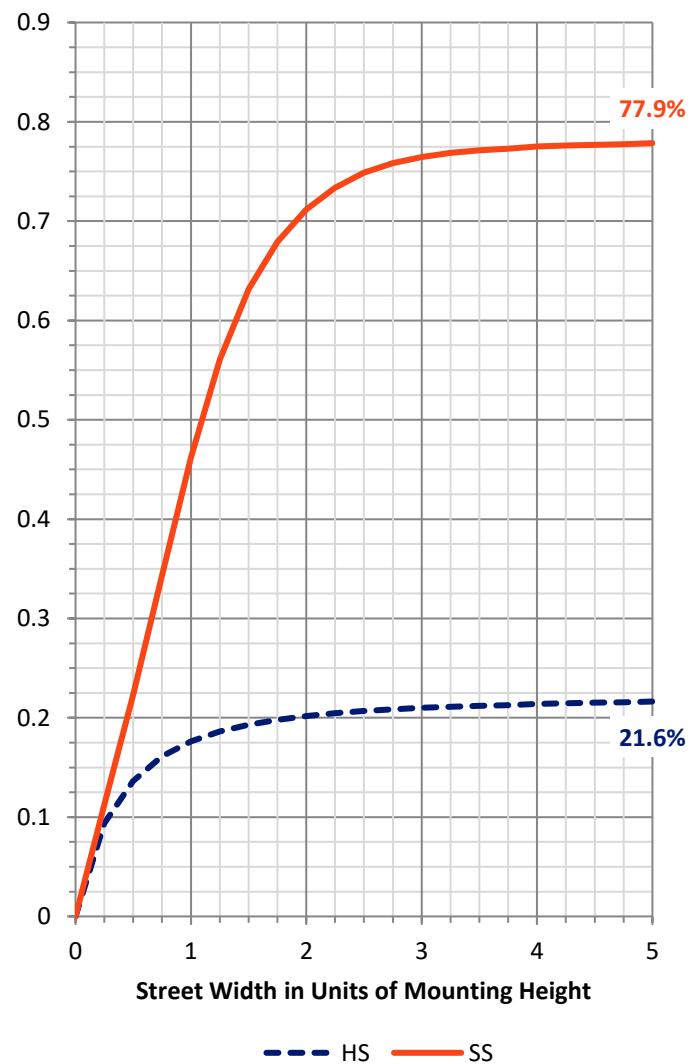
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1666.0   | 0.0    | 1666.0 |
|                    | % Fixture | 21.9     | 0.0    | 21.9   |
| <b>Street Side</b> | Lumens    | 5942.0   | 0.0    | 5942.0 |
|                    | % Fixture | 78.1     | 0.0    | 78.1   |
| <b>Total</b>       | Lumens    | 7608.0   | 0.0    | 7608.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 101.2  | 1.3       |
| 10°-20°   | 292.2  | 3.8       |
| 20°-30°   | 499.6  | 6.6       |
| 30°-40°   | 803.4  | 10.6      |
| 40°-50°   | 1254.4 | 16.5      |
| 50°-60°   | 1675.6 | 22.0      |
| 60°-70°   | 1785.9 | 23.5      |
| 70°-80°   | 1099.4 | 14.5      |
| 80°-90°   | 96.3   | 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°    | 7608.0 | 100.0     |
| 0°-180°   | 7608.0 | 100.0     |

**Coefficient of Utilization**



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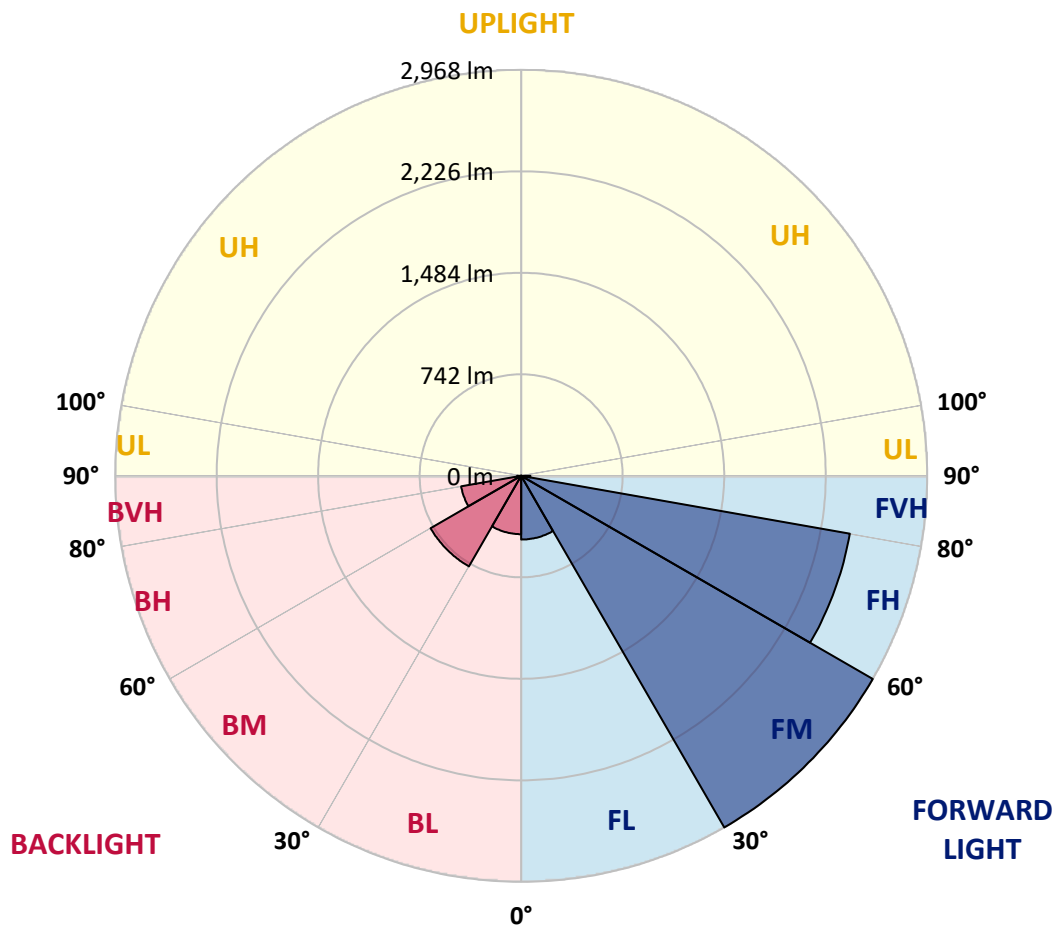
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 466.1  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 2968.5 | 39.0      |                         |      |         |
| FH   | (60°-80°)   | 2440.0 | 32.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 67.4   | 0.9       |                         |      | G1/100  |
| BL   | (0°-30°)    | 426.9  | 5.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 764.9  | 10.1      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 445.3  | 5.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 29.0   | 0.4       |                         |      | 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 Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 77°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1061.4 | 1061.4 | 1061.4 | 1061.4 | 1061.4 | 1061.4 | 1061.4 | 1061.4 | 1061.4 | 1061.4 | 1061.4 |
| 2.5°  | 978.4  | 978.0  | 983.1  | 984.6  | 994.0  | 1000.6 | 1013.1 | 1026.3 | 1043.5 | 1045.4 | 1055.9 |
| 5°    | 921.9  | 921.9  | 927.7  | 934.0  | 946.1  | 959.3  | 978.4  | 1001.4 | 1031.0 | 1035.7 | 1061.8 |
| 7.5°  | 874.0  | 877.1  | 882.1  | 894.2  | 908.3  | 927.3  | 956.6  | 989.3  | 1028.3 | 1035.7 | 1077.8 |
| 10°   | 835.4  | 838.9  | 845.1  | 854.9  | 875.9  | 902.4  | 940.6  | 982.7  | 1034.9 | 1046.6 | 1101.1 |
| 12.5° | 823.3  | 826.8  | 830.3  | 837.7  | 857.2  | 888.4  | 934.0  | 985.8  | 1050.9 | 1062.6 | 1133.1 |
| 15°   | 851.4  | 855.7  | 852.9  | 851.0  | 861.1  | 889.6  | 937.1  | 997.1  | 1070.7 | 1087.5 | 1172.4 |
| 17.5° | 916.0  | 917.6  | 911.4  | 893.1  | 891.5  | 906.7  | 951.9  | 1012.7 | 1095.7 | 1114.0 | 1212.2 |
| 20°   | 1020.5 | 1017.7 | 1004.9 | 968.7  | 948.0  | 944.9  | 977.2  | 1036.1 | 1121.4 | 1140.9 | 1255.0 |
| 22.5° | 1162.3 | 1159.2 | 1133.5 | 1076.2 | 1030.2 | 999.8  | 1013.8 | 1066.5 | 1150.2 | 1172.0 | 1296.7 |
| 25°   | 1339.2 | 1334.9 | 1297.1 | 1219.2 | 1147.9 | 1072.7 | 1063.7 | 1106.6 | 1185.7 | 1205.9 | 1340.4 |
| 27.5° | 1545.7 | 1542.2 | 1501.3 | 1398.4 | 1295.6 | 1172.4 | 1125.7 | 1153.7 | 1222.7 | 1245.7 | 1389.5 |
| 30°   | 1767.8 | 1777.9 | 1705.5 | 1594.8 | 1464.7 | 1302.6 | 1209.1 | 1211.8 | 1270.6 | 1291.3 | 1449.1 |
| 32.5° | 2028.9 | 2046.4 | 1959.1 | 1818.8 | 1641.2 | 1444.0 | 1314.3 | 1292.8 | 1340.4 | 1357.5 | 1524.3 |
| 35°   | 2287.6 | 2307.5 | 2235.0 | 2079.9 | 1875.3 | 1610.8 | 1424.1 | 1386.0 | 1433.1 | 1451.8 | 1624.0 |
| 37.5° | 2511.2 | 2537.7 | 2500.3 | 2365.5 | 2125.9 | 1811.8 | 1567.5 | 1495.4 | 1547.3 | 1570.6 | 1758.1 |
| 40°   | 2687.8 | 2728.3 | 2725.5 | 2641.4 | 2421.2 | 2055.8 | 1749.5 | 1630.7 | 1689.1 | 1714.4 | 1920.5 |
| 42.5° | 2831.1 | 2866.2 | 2896.6 | 2892.3 | 2729.4 | 2332.8 | 1963.4 | 1806.4 | 1850.8 | 1880.0 | 2103.3 |
| 45°   | 2930.1 | 2967.5 | 3033.0 | 3103.5 | 3026.0 | 2629.3 | 2208.5 | 2014.8 | 2055.4 | 2099.4 | 2321.1 |
| 47.5° | 3018.6 | 3061.0 | 3146.0 | 3257.8 | 3277.7 | 2927.0 | 2477.0 | 2257.6 | 2294.6 | 2340.2 | 2539.7 |
| 50°   | 3026.4 | 3063.0 | 3194.7 | 3353.3 | 3456.5 | 3213.0 | 2765.3 | 2529.9 | 2564.6 | 2613.3 | 2773.9 |
| 52.5° | 2838.2 | 2895.8 | 3125.7 | 3350.5 | 3538.7 | 3452.2 | 3051.7 | 2813.2 | 2852.2 | 2910.6 | 3016.2 |
| 55°   | 2203.0 | 2287.6 | 2923.5 | 3246.1 | 3509.5 | 3606.9 | 3324.0 | 3114.4 | 3164.3 | 3225.5 | 3260.1 |
| 57.5° | 1897.6 | 1934.6 | 2320.7 | 3056.0 | 3376.2 | 3647.1 | 3553.9 | 3418.7 | 3499.0 | 3566.0 | 3518.1 |
| 60°   | 1705.5 | 1736.2 | 1964.6 | 2760.2 | 3200.9 | 3583.5 | 3731.6 | 3702.4 | 3841.1 | 3921.0 | 3781.9 |
| 62.5° | 1499.7 | 1529.0 | 1736.6 | 2304.7 | 2976.5 | 3477.9 | 3843.8 | 3964.2 | 4191.8 | 4279.1 | 4030.5 |
| 65°   | 1295.6 | 1320.5 | 1519.6 | 1936.5 | 2691.3 | 3372.4 | 3901.9 | 4190.6 | 4516.3 | 4606.7 | 4237.0 |
| 67.5° | 1068.0 | 1088.7 | 1276.9 | 1633.8 | 2344.5 | 3227.8 | 3930.7 | 4368.7 | 4798.8 | 4876.4 | 4339.1 |
| 70°   | 770.7  | 786.7  | 981.1  | 1292.1 | 1909.2 | 2979.2 | 3919.0 | 4494.9 | 4945.3 | 5007.3 | 4261.9 |
| 72.5° | 364.3  | 378.7  | 607.1  | 838.9  | 1348.6 | 2495.3 | 3682.5 | 4394.8 | 4796.5 | 4765.7 | 3789.7 |
| 75°   | 194.4  | 206.9  | 348.7  | 460.2  | 712.3  | 1710.5 | 3013.5 | 3785.8 | 4027.7 | 3878.1 | 2800.7 |
| 77.5° | 131.7  | 141.4  | 215.9  | 276.3  | 325.4  | 812.0  | 1936.9 | 2621.1 | 2521.8 | 2274.7 | 1402.7 |
| 80°   | 104.4  | 114.6  | 176.9  | 187.0  | 157.4  | 293.4  | 800.3  | 1213.3 | 871.6  | 697.1  | 399.0  |
| 82.5° | 80.3   | 91.6   | 148.8  | 135.6  | 85.7   | 120.4  | 233.0  | 383.8  | 223.3  | 169.9  | 96.6   |
| 85°   | 49.1   | 61.2   | 116.9  | 86.5   | 48.3   | 54.9   | 79.1   | 106.8  | 68.2   | 56.9   | 34.7   |
| 87.5° | 24.9   | 35.1   | 59.2   | 31.6   | 21.8   | 12.9   | 21.0   | 21.0   | 17.9   | 15.6   | 9.0    |
| 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°    | 1061.4 | 1061.4 | 1061.4 | 1061.4 | 1061.4 | 1061.4 | 1061.4 | 1061.4 | 1061.4 | 1061.4 | 1061.4 |
| 2.5°  | 1065.3 | 1073.1 | 1086.3 | 1098.8 | 1108.5 | 1117.9 | 1127.2 | 1132.3 | 1133.9 | 1140.1 | 1143.6 |
| 5°    | 1077.8 | 1092.2 | 1117.9 | 1142.0 | 1157.2 | 1166.6 | 1173.2 | 1177.1 | 1177.9 | 1179.8 | 1183.0 |
| 7.5°  | 1100.7 | 1123.7 | 1159.6 | 1183.7 | 1195.0 | 1194.3 | 1191.5 | 1181.8 | 1177.9 | 1174.4 | 1175.2 |
| 10°   | 1133.1 | 1163.5 | 1207.5 | 1224.3 | 1217.2 | 1198.5 | 1174.4 | 1145.9 | 1132.7 | 1119.8 | 1115.9 |
| 12.5° | 1173.2 | 1211.8 | 1255.0 | 1254.3 | 1219.6 | 1171.7 | 1115.5 | 1071.9 | 1044.2 | 1024.4 | 1019.7 |
| 15°   | 1221.9 | 1266.3 | 1299.5 | 1273.0 | 1197.0 | 1110.9 | 1028.7 | 971.8  | 946.8  | 925.0  | 922.7  |
| 17.5° | 1272.2 | 1319.7 | 1334.9 | 1267.1 | 1140.1 | 1020.9 | 927.7  | 882.9  | 858.4  | 846.7  | 850.2  |
| 20°   | 1321.3 | 1368.4 | 1356.0 | 1233.6 | 1053.6 | 918.8  | 835.8  | 811.2  | 806.2  | 808.9  | 807.7  |
| 22.5° | 1373.1 | 1415.2 | 1360.2 | 1168.9 | 943.3  | 814.4  | 768.8  | 769.5  | 780.8  | 789.0  | 791.0  |
| 25°   | 1426.1 | 1454.5 | 1348.9 | 1075.4 | 824.9  | 737.6  | 726.3  | 738.8  | 761.0  | 776.9  | 781.2  |
| 27.5° | 1477.1 | 1489.6 | 1324.4 | 959.7  | 723.2  | 682.7  | 684.6  | 710.3  | 743.8  | 766.0  | 771.5  |
| 30°   | 1534.8 | 1520.8 | 1277.2 | 829.5  | 652.7  | 635.5  | 651.9  | 681.9  | 715.4  | 735.3  | 739.9  |
| 32.5° | 1599.9 | 1547.7 | 1202.4 | 709.1  | 602.8  | 597.7  | 624.6  | 644.1  | 658.9  | 664.7  | 667.8  |
| 35°   | 1680.9 | 1585.5 | 1106.6 | 624.6  | 558.0  | 570.0  | 595.8  | 586.0  | 580.2  | 577.1  | 580.2  |
| 37.5° | 1786.1 | 1636.5 | 994.4  | 569.7  | 521.7  | 550.2  | 560.7  | 530.3  | 507.3  | 496.0  | 498.7  |
| 40°   | 1912.8 | 1711.3 | 886.4  | 527.2  | 498.7  | 533.0  | 514.7  | 478.1  | 448.9  | 432.9  | 434.1  |
| 42.5° | 2053.4 | 1789.6 | 795.6  | 495.2  | 485.9  | 519.0  | 480.8  | 437.2  | 390.0  | 385.0  | 390.0  |
| 45°   | 2201.1 | 1870.3 | 733.7  | 470.7  | 479.6  | 506.9  | 461.3  | 390.8  | 357.3  | 378.0  | 388.9  |
| 47.5° | 2348.8 | 1944.3 | 696.3  | 452.4  | 476.5  | 493.3  | 444.2  | 365.1  | 341.3  | 371.3  | 385.4  |
| 50°   | 2513.2 | 2010.6 | 679.5  | 439.1  | 473.0  | 487.8  | 418.5  | 358.5  | 324.6  | 344.4  | 359.3  |
| 52.5° | 2676.5 | 2062.0 | 667.1  | 425.9  | 468.0  | 483.5  | 406.0  | 350.7  | 304.3  | 305.5  | 313.7  |
| 55°   | 2839.3 | 2095.5 | 653.4  | 408.3  | 456.7  | 474.2  | 404.8  | 342.1  | 289.1  | 283.7  | 287.6  |
| 57.5° | 3013.1 | 2114.6 | 636.7  | 388.9  | 437.2  | 450.4  | 403.7  | 335.5  | 284.4  | 275.5  | 276.6  |
| 60°   | 3190.0 | 2142.6 | 614.9  | 365.1  | 411.1  | 422.0  | 400.9  | 333.1  | 281.7  | 266.5  | 267.7  |
| 62.5° | 3348.6 | 2152.4 | 588.7  | 342.5  | 377.6  | 393.9  | 395.1  | 331.2  | 274.3  | 248.2  | 248.2  |
| 65°   | 3452.6 | 2110.3 | 543.2  | 316.8  | 341.3  | 365.1  | 383.8  | 324.6  | 261.1  | 235.0  | 235.0  |
| 67.5° | 3448.3 | 1990.3 | 471.9  | 283.7  | 306.3  | 333.1  | 367.4  | 313.3  | 245.1  | 218.6  | 219.8  |
| 70°   | 3287.8 | 1753.4 | 381.5  | 245.1  | 267.7  | 298.9  | 346.4  | 296.5  | 226.0  | 200.7  | 203.0  |
| 72.5° | 2819.8 | 1372.3 | 277.0  | 199.9  | 222.9  | 263.4  | 319.1  | 276.3  | 206.5  | 184.7  | 183.5  |
| 75°   | 2014.5 | 868.5  | 187.8  | 153.5  | 173.4  | 223.3  | 285.2  | 252.5  | 188.6  | 185.5  | 174.9  |
| 77.5° | 1029.0 | 415.0  | 124.3  | 112.2  | 120.8  | 176.1  | 239.6  | 225.6  | 191.3  | 153.1  | 136.4  |
| 80°   | 334.7  | 153.1  | 78.3   | 76.4   | 80.3   | 117.3  | 185.5  | 185.1  | 144.9  | 104.0  | 92.0   |
| 82.5° | 106.8  | 65.8   | 51.0   | 49.1   | 47.1   | 73.6   | 129.4  | 146.5  | 97.8   | 65.8   | 65.5   |
| 85°   | 42.5   | 39.4   | 30.0   | 27.7   | 19.9   | 34.7   | 67.8   | 97.4   | 72.9   | 47.5   | 48.7   |
| 87.5° | 15.6   | 15.6   | 8.2    | 5.8    | 4.3    | 11.7   | 18.3   | 29.2   | 41.7   | 24.5   | 24.2   |
| 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)