

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: P946271

Luminaire Tested: **GALN-SB2A-722-U-T2R-HSS**

Issue Date: 1/21/2025

### Test Information

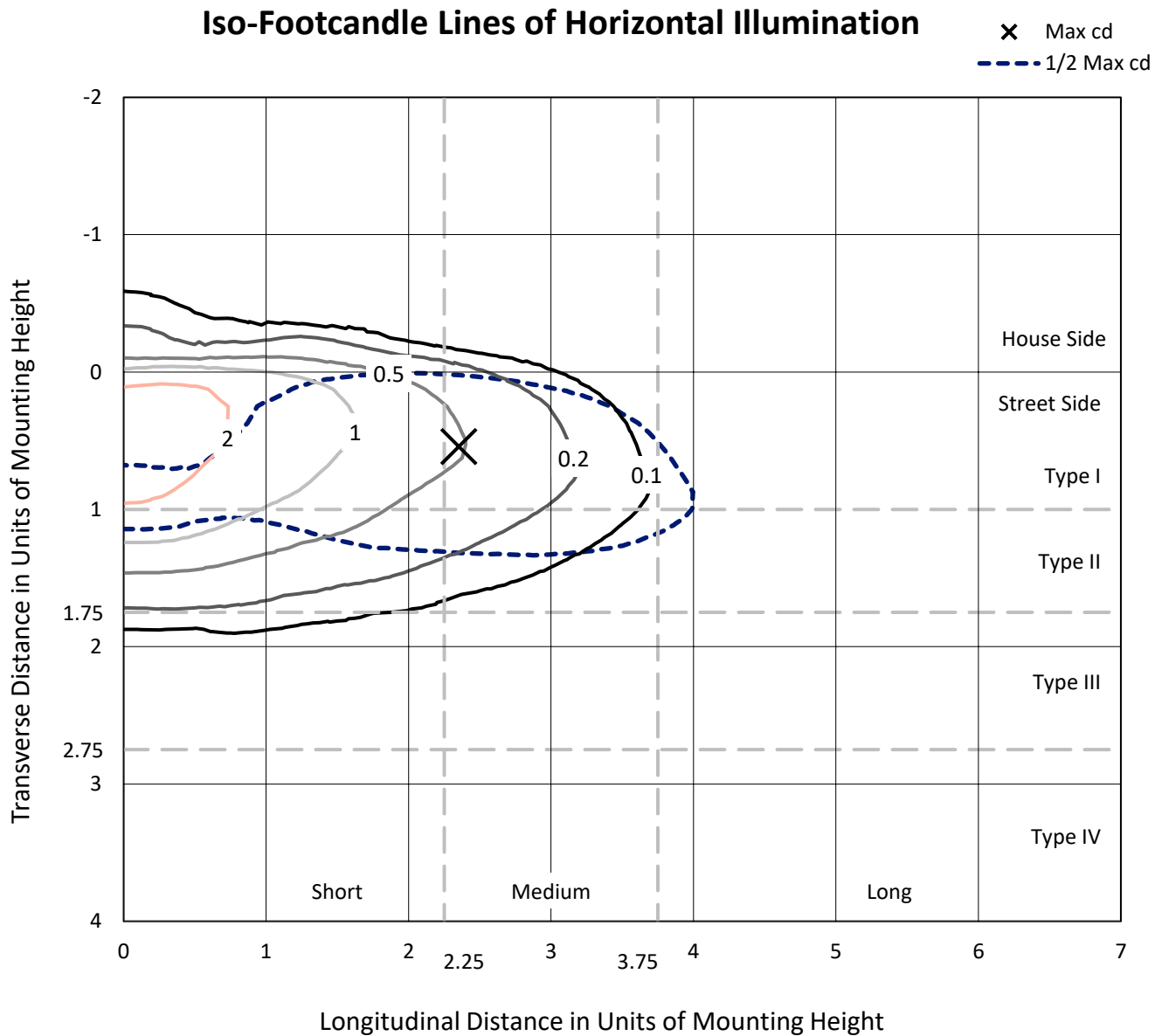
Test Method: LM-79-08  
Report Number: P946271  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-722-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 6274 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
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

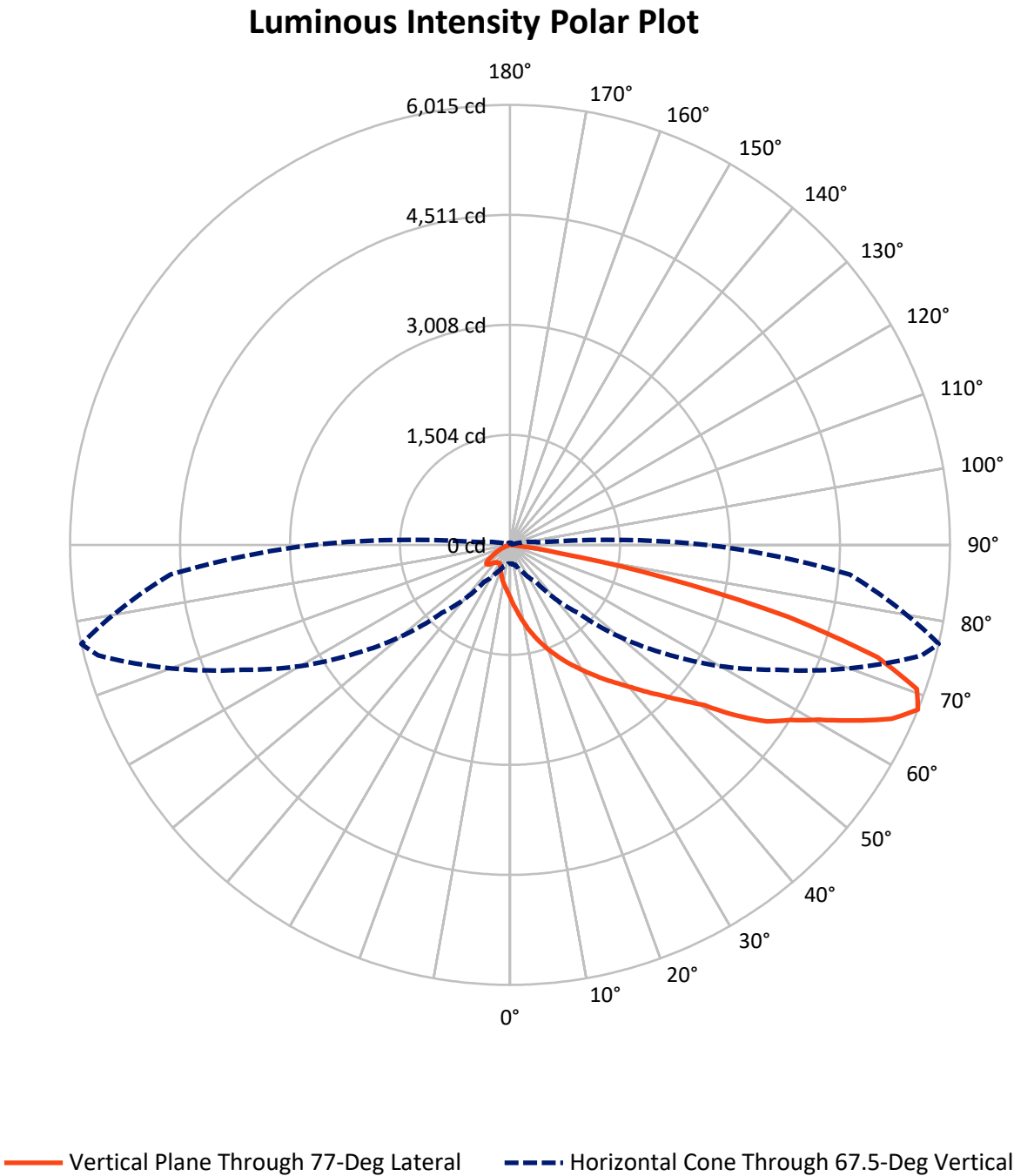


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Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
Type II - Medium - N/A

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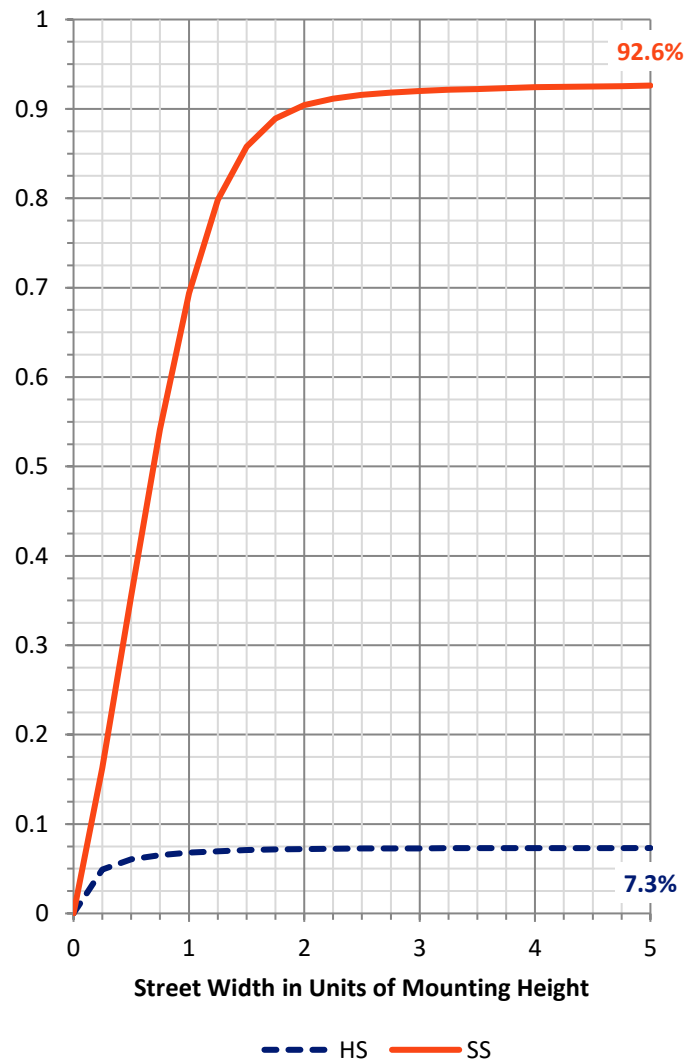
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 461.6    | 0.0    | 461.6  |
|                    | % Fixture | 7.4      | 0.0    | 7.4    |
| <b>Street Side</b> | Lumens    | 5812.4   | 0.0    | 5812.4 |
|                    | % Fixture | 92.6     | 0.0    | 92.6   |
| <b>Total</b>       | Lumens    | 6274.0   | 0.0    | 6274.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 73.8   | 1.2       |
| 10°-20°   | 258.6  | 4.1       |
| 20°-30°   | 499.0  | 8.0       |
| 30°-40°   | 866.3  | 13.8      |
| 40°-50°   | 1257.8 | 20.0      |
| 50°-60°   | 1444.5 | 23.0      |
| 60°-70°   | 1254.1 | 20.0      |
| 70°-80°   | 590.7  | 9.4       |
| 80°-90°   | 29.2   | 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°    | 6274.0 | 100.0     |
| 0°-180°   | 6274.0 | 100.0     |

**Coefficient of Utilization**



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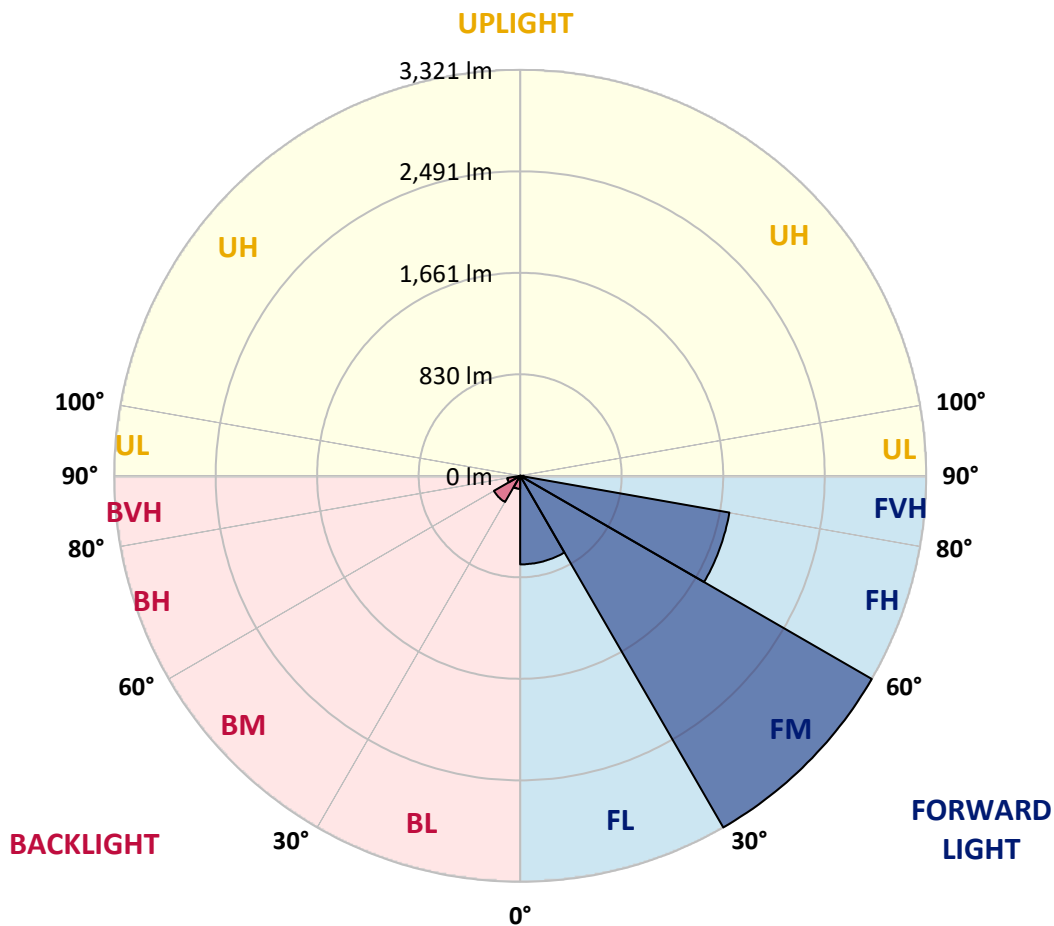
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 724.6  | 11.5      |                         |      |         |
| FM   | (30°-60°)   | 3321.3 | 52.9      |                         |      |         |
| FH   | (60°-80°)   | 1737.9 | 27.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 28.7   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 106.9  | 1.7       | B0/110                  |      |         |
| BM   | (30°-60°)   | 247.3  | 3.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 106.9  | 1.7       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.5    | 0.0       |                         |      | 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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 77°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 723.5  | 723.5  | 723.5  | 723.5  | 723.5  | 723.5  | 723.5  | 723.5  | 723.5  | 723.5  | 723.5  |
| 2.5°  | 1001.7 | 1007.9 | 998.9  | 981.8  | 956.1  | 939.3  | 898.4  | 859.8  | 817.0  | 803.4  | 760.5  |
| 5°    | 1221.0 | 1226.5 | 1216.3 | 1197.6 | 1163.3 | 1130.6 | 1076.9 | 996.2  | 912.4  | 885.6  | 809.6  |
| 7.5°  | 1383.5 | 1386.6 | 1382.7 | 1365.5 | 1332.8 | 1295.8 | 1235.8 | 1140.4 | 1016.1 | 986.5  | 870.0  |
| 10°   | 1500.3 | 1510.5 | 1509.3 | 1502.7 | 1480.9 | 1450.9 | 1387.0 | 1278.3 | 1132.2 | 1094.0 | 938.2  |
| 12.5° | 1577.9 | 1589.2 | 1595.8 | 1610.6 | 1609.4 | 1590.3 | 1534.2 | 1419.3 | 1247.9 | 1203.1 | 1014.9 |
| 15°   | 1600.5 | 1612.5 | 1637.9 | 1672.2 | 1702.5 | 1712.3 | 1672.9 | 1557.6 | 1375.3 | 1318.0 | 1093.6 |
| 17.5° | 1587.6 | 1606.3 | 1636.7 | 1690.9 | 1757.5 | 1801.5 | 1797.2 | 1691.2 | 1491.0 | 1425.5 | 1170.7 |
| 20°   | 1616.1 | 1634.0 | 1657.7 | 1703.3 | 1780.9 | 1860.7 | 1892.7 | 1819.0 | 1605.9 | 1537.4 | 1251.8 |
| 22.5° | 1773.5 | 1770.3 | 1772.7 | 1780.1 | 1826.4 | 1905.5 | 1971.4 | 1935.1 | 1719.7 | 1649.6 | 1337.5 |
| 25°   | 2022.8 | 2008.8 | 1985.0 | 1944.9 | 1933.2 | 1971.4 | 2039.9 | 2038.0 | 1839.7 | 1764.5 | 1425.2 |
| 27.5° | 2308.8 | 2306.4 | 2250.7 | 2154.1 | 2099.5 | 2084.7 | 2117.5 | 2138.1 | 1958.5 | 1878.3 | 1513.2 |
| 30°   | 2582.6 | 2588.9 | 2513.7 | 2406.2 | 2306.0 | 2248.0 | 2218.4 | 2233.2 | 2079.3 | 2001.0 | 1604.0 |
| 32.5° | 2821.1 | 2827.7 | 2745.9 | 2620.0 | 2496.2 | 2426.0 | 2363.7 | 2327.1 | 2211.0 | 2125.6 | 1703.7 |
| 35°   | 3022.5 | 3029.1 | 2935.2 | 2796.1 | 2664.1 | 2600.6 | 2530.1 | 2429.9 | 2343.4 | 2264.0 | 1814.7 |
| 37.5° | 3202.5 | 3200.6 | 3074.7 | 2934.5 | 2804.7 | 2754.5 | 2717.4 | 2556.5 | 2479.8 | 2403.0 | 1937.9 |
| 40°   | 3308.9 | 3317.0 | 3209.5 | 3054.8 | 2929.0 | 2892.4 | 2890.0 | 2713.6 | 2637.2 | 2562.8 | 2072.7 |
| 42.5° | 3340.0 | 3354.4 | 3276.5 | 3149.5 | 3035.4 | 2995.6 | 3056.8 | 2883.4 | 2820.3 | 2747.8 | 2225.0 |
| 45°   | 3283.9 | 3298.0 | 3262.5 | 3174.4 | 3107.8 | 3082.1 | 3200.2 | 3059.5 | 3015.9 | 2944.2 | 2396.8 |
| 47.5° | 3120.3 | 3137.8 | 3146.4 | 3127.7 | 3126.9 | 3153.0 | 3328.7 | 3245.0 | 3248.1 | 3174.8 | 2595.9 |
| 50°   | 2803.6 | 2833.2 | 2911.9 | 2978.1 | 3080.6 | 3209.1 | 3453.8 | 3446.0 | 3509.9 | 3446.8 | 2855.4 |
| 52.5° | 2227.7 | 2269.8 | 2541.0 | 2722.1 | 2952.4 | 3198.6 | 3591.3 | 3768.6 | 3969.2 | 3876.9 | 3221.2 |
| 55°   | 1790.2 | 1790.2 | 2010.7 | 2349.7 | 2702.3 | 3129.3 | 3651.3 | 3978.2 | 4282.1 | 4260.3 | 3478.7 |
| 57.5° | 1459.4 | 1477.0 | 1617.6 | 1917.2 | 2340.3 | 2964.1 | 3688.3 | 4109.9 | 4534.1 | 4518.2 | 3730.4 |
| 60°   | 900.8  | 938.5  | 1204.2 | 1500.0 | 1928.5 | 2669.9 | 3665.0 | 4243.1 | 4840.0 | 4852.8 | 4033.5 |
| 62.5° | 507.3  | 521.3  | 639.7  | 1079.2 | 1499.6 | 2274.5 | 3486.1 | 4317.5 | 5231.1 | 5285.7 | 4346.0 |
| 65°   | 350.2  | 357.3  | 402.8  | 671.7  | 1039.4 | 1810.9 | 3136.7 | 4271.2 | 5623.1 | 5733.3 | 4610.9 |
| 67.5° | 254.4  | 257.9  | 286.4  | 410.2  | 616.7  | 1312.9 | 2588.9 | 4037.4 | 5830.7 | 6015.0 | 4661.5 |
| 70°   | 195.6  | 197.9  | 218.6  | 269.6  | 364.3  | 810.4  | 1880.2 | 3572.6 | 5680.3 | 5900.5 | 4402.1 |
| 72.5° | 159.0  | 161.3  | 177.3  | 199.5  | 241.6  | 479.2  | 1139.6 | 2901.3 | 5016.5 | 5254.1 | 3747.5 |
| 75°   | 134.0  | 137.1  | 151.6  | 166.0  | 189.3  | 307.8  | 534.5  | 2020.5 | 3772.5 | 3928.3 | 2606.0 |
| 77.5° | 74.4   | 68.6   | 123.1  | 137.5  | 159.7  | 194.8  | 250.1  | 1189.1 | 2112.8 | 2156.0 | 1156.3 |
| 80°   | 46.4   | 47.9   | 97.8   | 110.6  | 122.7  | 98.2   | 114.5  | 457.8  | 732.4  | 695.8  | 224.0  |
| 82.5° | 2.7    | 6.2    | 75.2   | 79.9   | 84.2   | 42.1   | 43.2   | 155.4  | 176.5  | 162.1  | 39.7   |
| 85°   | 0.0    | 0.0    | 34.3   | 27.7   | 29.2   | 12.1   | 12.5   | 36.2   | 23.8   | 25.7   | 7.8    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.8    | 0.0    | 1.2    | 2.3    | 3.1    | 1.2    | 1.6    | 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 723.5  | 723.5  | 723.5 | 723.5 | 723.5 | 723.5 | 723.5 | 723.5 | 723.5 | 723.5 | 723.5 |
| 2.5°  | 733.2  | 706.0  | 650.6 | 596.5 | 552.5 | 511.5 | 482.3 | 454.7 | 440.6 | 439.9 | 439.1 |
| 5°    | 755.4  | 698.2  | 587.5 | 489.7 | 411.0 | 347.9 | 307.0 | 277.8 | 263.0 | 257.9 | 257.1 |
| 7.5°  | 786.6  | 700.5  | 532.2 | 396.2 | 303.5 | 249.3 | 226.0 | 216.6 | 213.5 | 210.0 | 209.2 |
| 10°   | 825.9  | 706.0  | 482.7 | 319.1 | 239.2 | 211.9 | 202.6 | 198.7 | 196.4 | 194.0 | 193.2 |
| 12.5° | 870.0  | 711.0  | 433.6 | 264.9 | 210.4 | 196.4 | 189.7 | 185.1 | 181.9 | 179.2 | 178.4 |
| 15°   | 912.8  | 714.1  | 382.6 | 227.1 | 195.6 | 184.3 | 177.3 | 172.2 | 167.9 | 164.8 | 164.4 |
| 17.5° | 955.3  | 718.4  | 334.7 | 204.5 | 183.5 | 172.2 | 165.2 | 159.0 | 155.4 | 151.9 | 151.6 |
| 20°   | 1002.4 | 717.6  | 289.5 | 188.6 | 171.4 | 160.1 | 152.7 | 146.9 | 143.4 | 139.5 | 139.1 |
| 22.5° | 1046.1 | 713.7  | 249.7 | 174.9 | 159.0 | 148.0 | 139.9 | 134.0 | 130.5 | 127.4 | 127.0 |
| 25°   | 1096.3 | 710.6  | 216.6 | 162.5 | 147.3 | 136.4 | 127.4 | 121.9 | 118.0 | 115.3 | 114.9 |
| 27.5° | 1144.6 | 706.0  | 192.5 | 151.2 | 136.0 | 125.5 | 116.9 | 110.6 | 107.1 | 105.2 | 105.2 |
| 30°   | 1192.2 | 704.8  | 183.5 | 140.3 | 125.8 | 115.3 | 106.7 | 100.9 | 98.2  | 97.4  | 97.0  |
| 32.5° | 1249.4 | 707.9  | 187.4 | 136.4 | 116.5 | 106.0 | 97.8  | 93.5  | 90.8  | 90.8  | 90.8  |
| 35°   | 1310.6 | 707.1  | 193.2 | 139.9 | 110.3 | 96.6  | 90.4  | 87.7  | 84.9  | 84.9  | 84.9  |
| 37.5° | 1387.4 | 708.3  | 197.9 | 145.7 | 107.9 | 88.8  | 85.3  | 81.8  | 80.3  | 80.3  | 80.3  |
| 40°   | 1501.9 | 746.9  | 195.6 | 150.8 | 107.1 | 83.4  | 76.4  | 75.2  | 74.0  | 74.0  | 74.0  |
| 42.5° | 1642.2 | 830.6  | 198.7 | 151.2 | 106.7 | 79.5  | 70.1  | 72.5  | 69.7  | 69.3  | 69.0  |
| 45°   | 1795.7 | 922.2  | 218.6 | 143.0 | 106.4 | 77.5  | 67.0  | 69.7  | 65.5  | 65.5  | 65.5  |
| 47.5° | 1948.0 | 1013.0 | 238.8 | 131.3 | 105.2 | 77.1  | 64.3  | 62.7  | 61.6  | 61.9  | 61.9  |
| 50°   | 2158.0 | 1087.0 | 246.6 | 115.3 | 102.5 | 76.4  | 59.2  | 59.6  | 58.8  | 59.6  | 59.6  |
| 52.5° | 2386.7 | 1102.6 | 237.3 | 97.4  | 94.7  | 74.0  | 55.7  | 57.3  | 56.9  | 57.7  | 57.7  |
| 55°   | 2529.3 | 1085.8 | 196.0 | 81.0  | 82.6  | 64.7  | 52.2  | 55.3  | 55.3  | 55.3  | 55.3  |
| 57.5° | 2676.5 | 1014.5 | 139.1 | 65.8  | 68.6  | 53.0  | 49.1  | 53.4  | 53.0  | 52.6  | 52.6  |
| 60°   | 2782.5 | 899.2  | 91.6  | 54.2  | 54.5  | 43.6  | 45.6  | 50.3  | 49.9  | 47.9  | 47.9  |
| 62.5° | 2861.6 | 771.8  | 58.8  | 46.0  | 41.7  | 39.3  | 41.7  | 45.6  | 44.0  | 39.7  | 39.0  |
| 65°   | 2852.6 | 595.3  | 45.2  | 39.3  | 34.3  | 34.3  | 36.2  | 39.7  | 35.1  | 28.1  | 27.3  |
| 67.5° | 2686.3 | 402.8  | 37.4  | 33.1  | 28.8  | 28.4  | 30.0  | 33.1  | 30.0  | 23.8  | 23.0  |
| 70°   | 2389.0 | 263.4  | 30.0  | 25.7  | 23.0  | 21.0  | 24.2  | 28.4  | 25.3  | 19.1  | 18.3  |
| 72.5° | 1939.0 | 160.5  | 22.6  | 18.7  | 16.8  | 13.6  | 19.1  | 23.4  | 20.3  | 14.0  | 13.2  |
| 75°   | 1254.5 | 81.8   | 15.6  | 12.1  | 9.0   | 8.2   | 14.0  | 17.5  | 14.0  | 8.6   | 7.4   |
| 77.5° | 480.0  | 34.3   | 8.6   | 5.5   | 4.7   | 3.9   | 7.8   | 10.5  | 5.8   | 1.9   | 1.6   |
| 80°   | 92.3   | 14.4   | 4.3   | 2.7   | 2.3   | 1.6   | 1.2   | 0.8   | 0.0   | 0.0   | 0.0   |
| 82.5° | 16.0   | 4.7    | 1.6   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 5.5    | 0.8    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.9    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 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)