

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: P197916

Luminaire Tested: **TT-C6-LED-E1-WQ-SG-MS/DIM-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197916  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115558)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-C6-LED-E1-WQ-SG-MS/DIM-7060  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE  
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND DIMMING OCCUPANCY SENSOR  
Light Source: (160) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10307.9 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 108  
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

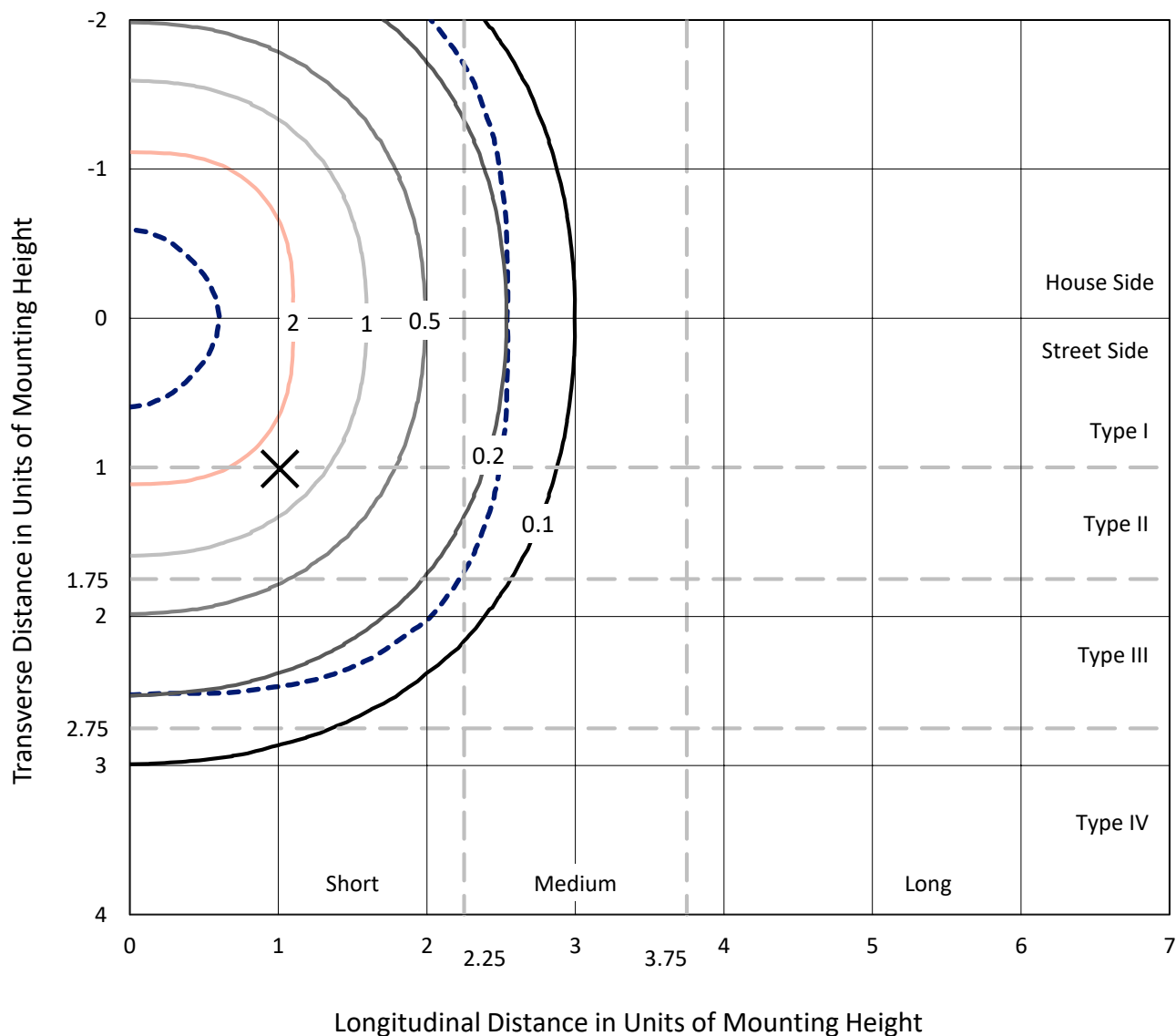


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

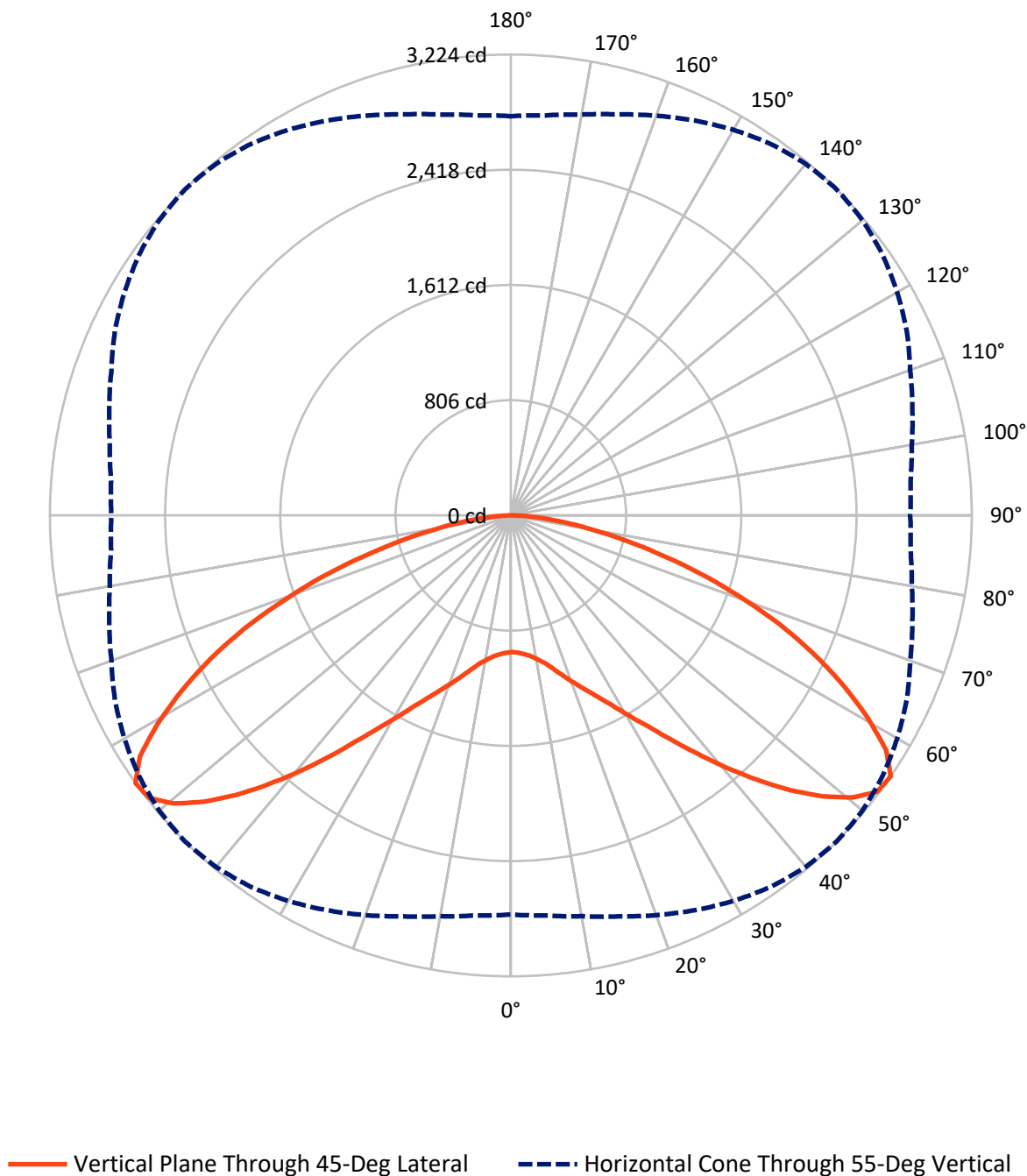


Based on 20 foot mounting height. Maximum calculated value = 2.6 fc  
Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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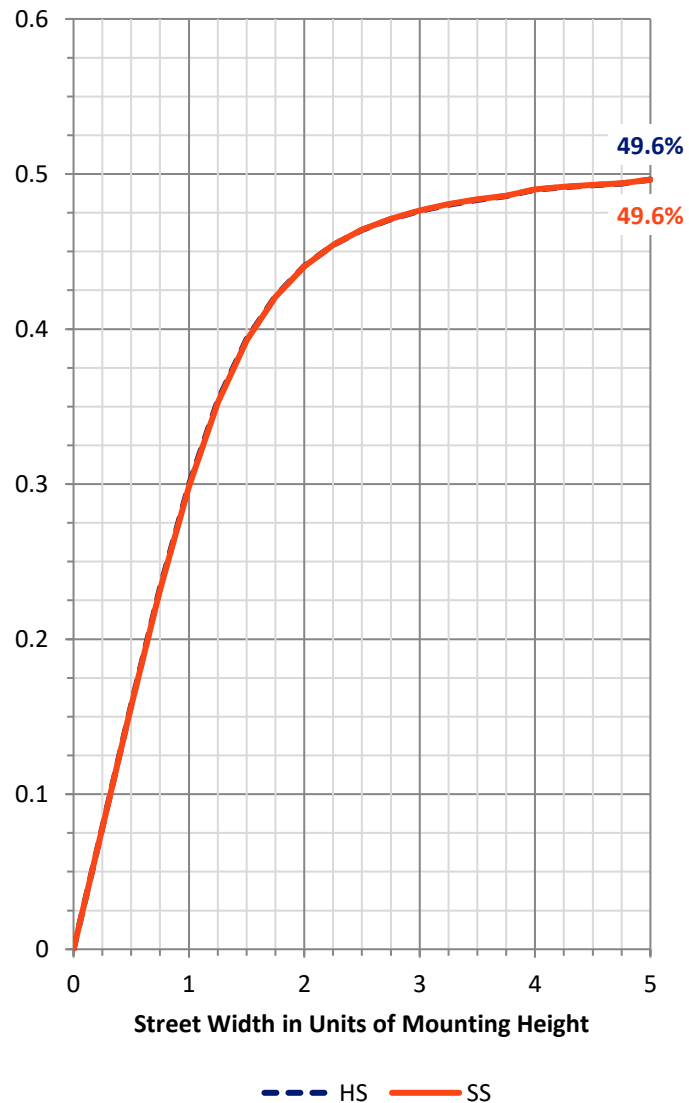
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5154.0   | 0.0    | 5154.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5154.0   | 0.0    | 5154.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 10307.9  | 0.0    | 10307.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 94.4    | 0.9       |
| 10°-20°   | 320.0   | 3.1       |
| 20°-30°   | 651.6   | 6.3       |
| 30°-40°   | 1190.0  | 11.5      |
| 40°-50°   | 2020.5  | 19.6      |
| 50°-60°   | 2631.3  | 25.5      |
| 60°-70°   | 2128.1  | 20.6      |
| 70°-80°   | 1045.8  | 10.1      |
| 80°-90°   | 226.4   | 2.2       |
| 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°    | 10307.9 | 100.0     |
| 0°-180°   | 10307.9 | 100.0     |

**Coefficient of Utilization**



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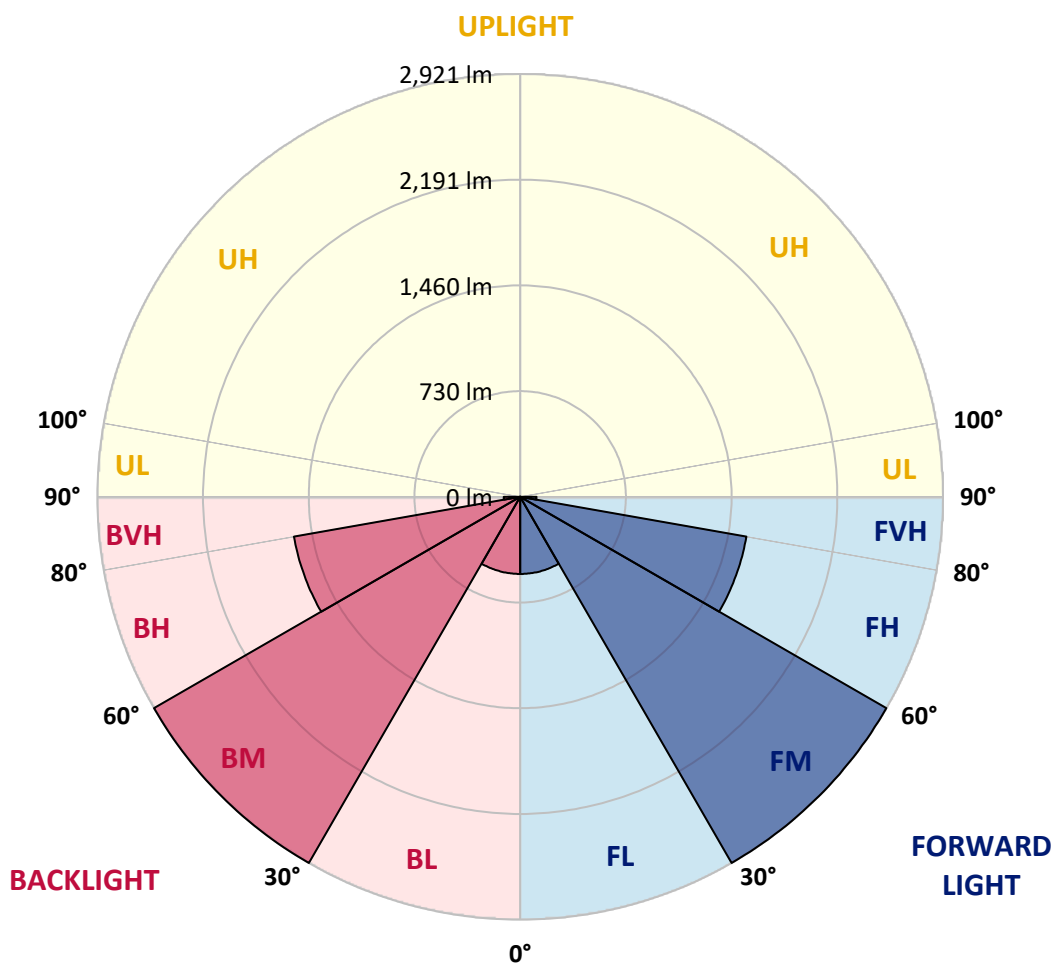
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 533.0  | 5.2       |                         |      |         |
| FM   | (30°-60°)   | 2920.9 | 28.3      |                         |      |         |
| FH   | (60°-80°)   | 1586.9 | 15.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 113.2  | 1.1       |                         |      | G2/225  |
| BL   | (0°-30°)    | 533.0  | 5.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2920.9 | 28.3      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1586.9 | 15.4      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 113.2  | 1.1       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 955.2  | 955.2  | 955.2  | 955.2  | 955.2  | 955.2  | 955.2  | 955.2  | 955.2  | 955.2  | 955.2  |
| 2.5°  | 959.2  | 959.2  | 959.2  | 959.2  | 959.2  | 959.2  | 961.4  | 961.4  | 961.4  | 961.4  | 961.4  |
| 5°    | 972.0  | 972.0  | 972.0  | 974.1  | 974.1  | 974.1  | 974.1  | 974.1  | 974.1  | 974.1  | 974.1  |
| 7.5°  | 991.0  | 988.8  | 991.0  | 991.0  | 991.0  | 993.1  | 993.1  | 991.0  | 993.1  | 993.1  | 993.1  |
| 10°   | 1018.3 | 1016.2 | 1018.3 | 1018.3 | 1018.3 | 1020.5 | 1020.5 | 1020.5 | 1020.5 | 1022.7 | 1022.7 |
| 12.5° | 1058.5 | 1056.3 | 1058.5 | 1060.6 | 1058.5 | 1060.6 | 1060.6 | 1060.6 | 1060.6 | 1060.6 | 1060.6 |
| 15°   | 1109.1 | 1107.0 | 1109.1 | 1111.1 | 1109.1 | 1113.2 | 1113.2 | 1111.1 | 1111.1 | 1113.2 | 1113.2 |
| 17.5° | 1170.2 | 1166.1 | 1168.0 | 1170.2 | 1170.2 | 1174.5 | 1174.5 | 1172.3 | 1174.5 | 1176.4 | 1174.5 |
| 20°   | 1233.4 | 1229.3 | 1231.4 | 1237.7 | 1237.7 | 1239.8 | 1243.9 | 1242.0 | 1243.9 | 1246.1 | 1243.9 |
| 22.5° | 1303.0 | 1300.9 | 1303.0 | 1309.3 | 1309.3 | 1311.4 | 1317.7 | 1317.7 | 1317.7 | 1319.8 | 1317.7 |
| 25°   | 1378.9 | 1376.8 | 1378.9 | 1385.2 | 1385.2 | 1389.5 | 1397.9 | 1397.9 | 1400.1 | 1402.2 | 1400.1 |
| 27.5° | 1467.6 | 1465.4 | 1469.5 | 1476.0 | 1478.1 | 1484.4 | 1494.9 | 1497.1 | 1499.0 | 1501.2 | 1497.1 |
| 30°   | 1570.9 | 1566.5 | 1572.8 | 1583.4 | 1587.7 | 1596.1 | 1608.8 | 1612.9 | 1615.1 | 1621.3 | 1617.2 |
| 32.5° | 1688.8 | 1684.7 | 1693.1 | 1705.6 | 1712.1 | 1724.6 | 1741.7 | 1745.8 | 1752.0 | 1756.3 | 1750.1 |
| 35°   | 1827.9 | 1826.0 | 1834.4 | 1853.4 | 1863.9 | 1878.6 | 1901.9 | 1908.1 | 1912.5 | 1920.9 | 1912.5 |
| 37.5° | 1981.9 | 1979.7 | 1994.6 | 2015.8 | 2034.7 | 2057.8 | 2083.0 | 2093.6 | 2100.1 | 2110.7 | 2100.1 |
| 40°   | 2152.7 | 2150.5 | 2169.5 | 2195.0 | 2218.0 | 2247.6 | 2279.3 | 2294.0 | 2306.7 | 2317.3 | 2304.5 |
| 42.5° | 2327.8 | 2327.8 | 2350.9 | 2378.3 | 2412.1 | 2447.9 | 2483.7 | 2500.6 | 2521.7 | 2528.0 | 2513.3 |
| 45°   | 2496.5 | 2498.4 | 2521.7 | 2555.3 | 2603.9 | 2650.2 | 2690.3 | 2711.5 | 2734.6 | 2741.0 | 2722.0 |
| 47.5° | 2656.7 | 2658.9 | 2679.8 | 2724.2 | 2779.0 | 2831.6 | 2880.1 | 2909.7 | 2932.7 | 2934.9 | 2920.2 |
| 50°   | 2787.4 | 2795.8 | 2823.2 | 2863.3 | 2920.2 | 2975.0 | 3034.1 | 3072.1 | 3095.1 | 3101.6 | 3086.7 |
| 52.5° | 2838.1 | 2852.7 | 2884.4 | 2934.9 | 3000.2 | 3057.2 | 3122.5 | 3171.0 | 3198.4 | 3209.0 | 3196.5 |
| 55°   | 2791.5 | 2808.5 | 2846.5 | 2903.4 | 2975.0 | 3046.6 | 3114.1 | 3171.0 | 3209.0 | 3223.9 | 3211.2 |
| 57.5° | 2688.2 | 2690.3 | 2728.3 | 2785.2 | 2850.6 | 2924.3 | 2989.7 | 3042.5 | 3078.3 | 3093.2 | 3091.0 |
| 60°   | 2509.0 | 2509.0 | 2545.0 | 2599.8 | 2650.2 | 2726.1 | 2781.1 | 2821.0 | 2846.5 | 2863.3 | 2859.0 |
| 62.5° | 2268.7 | 2268.7 | 2300.2 | 2357.1 | 2407.8 | 2473.2 | 2526.0 | 2568.1 | 2584.9 | 2603.9 | 2608.2 |
| 65°   | 2000.9 | 2000.9 | 2030.4 | 2087.4 | 2133.7 | 2192.8 | 2243.3 | 2283.4 | 2300.2 | 2323.5 | 2319.2 |
| 67.5° | 1716.2 | 1714.3 | 1741.7 | 1790.0 | 1834.4 | 1889.2 | 1937.7 | 1975.6 | 1994.6 | 2022.0 | 2003.0 |
| 70°   | 1423.1 | 1423.1 | 1446.4 | 1484.4 | 1515.9 | 1570.9 | 1617.2 | 1655.2 | 1669.8 | 1693.1 | 1682.6 |
| 72.5° | 1144.9 | 1142.8 | 1161.8 | 1191.3 | 1216.5 | 1265.1 | 1292.4 | 1334.7 | 1347.2 | 1378.9 | 1362.1 |
| 75°   | 893.9  | 889.8  | 904.5  | 925.6  | 942.4  | 974.1  | 995.3  | 1028.9 | 1039.5 | 1060.6 | 1052.2 |
| 77.5° | 672.6  | 670.5  | 676.7  | 691.6  | 704.1  | 729.6  | 738.0  | 754.8  | 763.2  | 784.4  | 767.5  |
| 80°   | 482.9  | 476.6  | 482.9  | 491.3  | 495.6  | 514.6  | 516.5  | 523.0  | 527.1  | 542.0  | 524.9  |
| 82.5° | 324.8  | 316.4  | 320.5  | 326.7  | 326.7  | 337.3  | 339.4  | 337.3  | 345.7  | 350.0  | 341.6  |
| 85°   | 185.5  | 179.2  | 181.4  | 185.5  | 183.5  | 189.8  | 189.8  | 187.6  | 193.9  | 193.9  | 189.8  |
| 87.5° | 61.2   | 56.9   | 59.1   | 61.2   | 61.2   | 63.2   | 65.3   | 63.2   | 67.5   | 67.5   | 63.2   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 955.2  | 955.2  | 955.2  | 955.2  | 955.2  | 955.2  | 955.2  | 955.2  |
| 2.5°  | 961.4  | 961.4  | 961.4  | 961.4  | 961.4  | 961.4  | 961.4  | 961.4  |
| 5°    | 974.1  | 974.1  | 974.1  | 974.1  | 974.1  | 972.0  | 972.0  | 972.0  |
| 7.5°  | 993.1  | 993.1  | 993.1  | 993.1  | 993.1  | 991.0  | 991.0  | 991.0  |
| 10°   | 1022.7 | 1020.5 | 1020.5 | 1020.5 | 1020.5 | 1018.3 | 1020.5 | 1018.3 |
| 12.5° | 1060.6 | 1062.6 | 1062.6 | 1060.6 | 1062.6 | 1058.5 | 1058.5 | 1058.5 |
| 15°   | 1113.2 | 1111.1 | 1111.1 | 1111.1 | 1111.1 | 1109.1 | 1109.1 | 1109.1 |
| 17.5° | 1172.3 | 1172.3 | 1170.2 | 1170.2 | 1168.0 | 1166.1 | 1166.1 | 1166.1 |
| 20°   | 1242.0 | 1239.8 | 1237.7 | 1235.5 | 1233.4 | 1229.3 | 1227.1 | 1227.1 |
| 22.5° | 1313.6 | 1311.4 | 1309.3 | 1307.3 | 1305.2 | 1300.9 | 1296.8 | 1296.8 |
| 25°   | 1393.6 | 1389.5 | 1387.3 | 1383.2 | 1378.9 | 1374.6 | 1372.7 | 1370.5 |
| 27.5° | 1490.6 | 1486.5 | 1480.1 | 1473.8 | 1465.4 | 1463.2 | 1459.1 | 1459.1 |
| 30°   | 1606.7 | 1600.4 | 1591.8 | 1581.4 | 1572.8 | 1564.4 | 1560.3 | 1558.1 |
| 32.5° | 1741.7 | 1733.2 | 1718.4 | 1705.6 | 1691.0 | 1682.6 | 1676.3 | 1672.0 |
| 35°   | 1899.7 | 1887.0 | 1870.2 | 1851.2 | 1832.2 | 1817.6 | 1807.0 | 1807.0 |
| 37.5° | 2085.2 | 2066.2 | 2041.0 | 2017.7 | 1990.3 | 1973.5 | 1960.8 | 1952.4 |
| 40°   | 2287.7 | 2260.3 | 2228.6 | 2199.1 | 2167.6 | 2144.3 | 2125.3 | 2127.5 |
| 42.5° | 2488.1 | 2464.8 | 2426.8 | 2391.0 | 2350.9 | 2319.2 | 2296.1 | 2294.0 |
| 45°   | 2698.8 | 2669.2 | 2622.8 | 2576.5 | 2530.1 | 2492.2 | 2464.8 | 2460.4 |
| 47.5° | 2894.8 | 2863.3 | 2808.5 | 2751.6 | 2700.9 | 2658.9 | 2629.3 | 2625.0 |
| 50°   | 3055.2 | 3017.3 | 2960.3 | 2899.1 | 2844.3 | 2798.0 | 2766.3 | 2757.8 |
| 52.5° | 3158.5 | 3116.3 | 3055.2 | 2981.3 | 2922.4 | 2869.6 | 2831.6 | 2821.0 |
| 55°   | 3175.4 | 3120.6 | 3055.2 | 2972.9 | 2907.5 | 2848.4 | 2806.4 | 2793.6 |
| 57.5° | 3059.3 | 3000.2 | 2941.4 | 2869.6 | 2804.2 | 2741.0 | 2707.2 | 2690.3 |
| 60°   | 2833.8 | 2787.4 | 2738.9 | 2673.5 | 2620.9 | 2561.8 | 2534.4 | 2526.0 |
| 62.5° | 2574.3 | 2534.4 | 2490.0 | 2422.7 | 2378.3 | 2325.7 | 2300.2 | 2289.9 |
| 65°   | 2296.1 | 2249.8 | 2207.5 | 2152.7 | 2104.2 | 2060.0 | 2024.2 | 2019.9 |
| 67.5° | 1988.2 | 1939.8 | 1903.8 | 1855.5 | 1807.0 | 1764.7 | 1741.7 | 1728.9 |
| 70°   | 1663.6 | 1623.5 | 1587.7 | 1534.8 | 1503.4 | 1463.2 | 1446.4 | 1433.7 |
| 72.5° | 1341.0 | 1317.7 | 1273.5 | 1239.8 | 1204.0 | 1172.3 | 1161.8 | 1149.0 |
| 75°   | 1037.3 | 1009.9 | 976.3  | 955.2  | 927.8  | 910.9  | 902.3  | 893.9  |
| 77.5° | 761.1  | 738.0  | 719.0  | 710.6  | 697.9  | 681.1  | 674.8  | 668.3  |
| 80°   | 527.1  | 516.5  | 504.0  | 501.8  | 493.4  | 480.7  | 478.5  | 476.6  |
| 82.5° | 341.6  | 335.3  | 331.0  | 331.0  | 326.7  | 318.3  | 316.4  | 316.4  |
| 85°   | 189.8  | 187.6  | 189.8  | 187.6  | 183.5  | 179.2  | 179.2  | 179.2  |
| 87.5° | 63.2   | 63.2   | 65.3   | 67.5   | 61.2   | 61.2   | 59.1   | 59.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)