

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: P197818

Luminaire Tested: **TT-C6-LED-E1-5WQ-PM-CG-LWR-LW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115528)
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-E1-5WQ-PM-CG-LWR-LW
Description: TOPTIER LED AREA/SITE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9911.3 lumens
Efficiency: N/A
Efficacy: 91.8 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

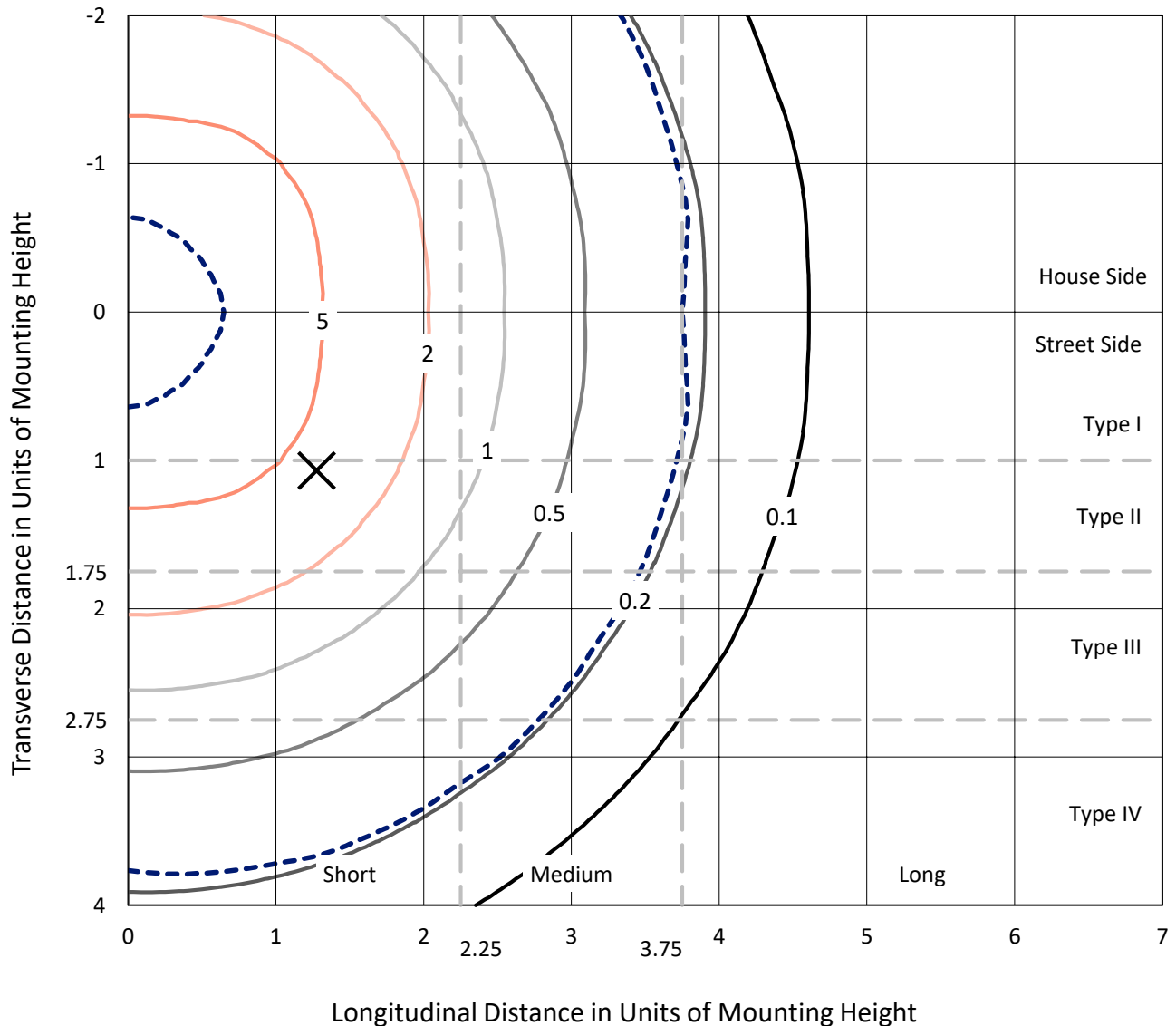


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

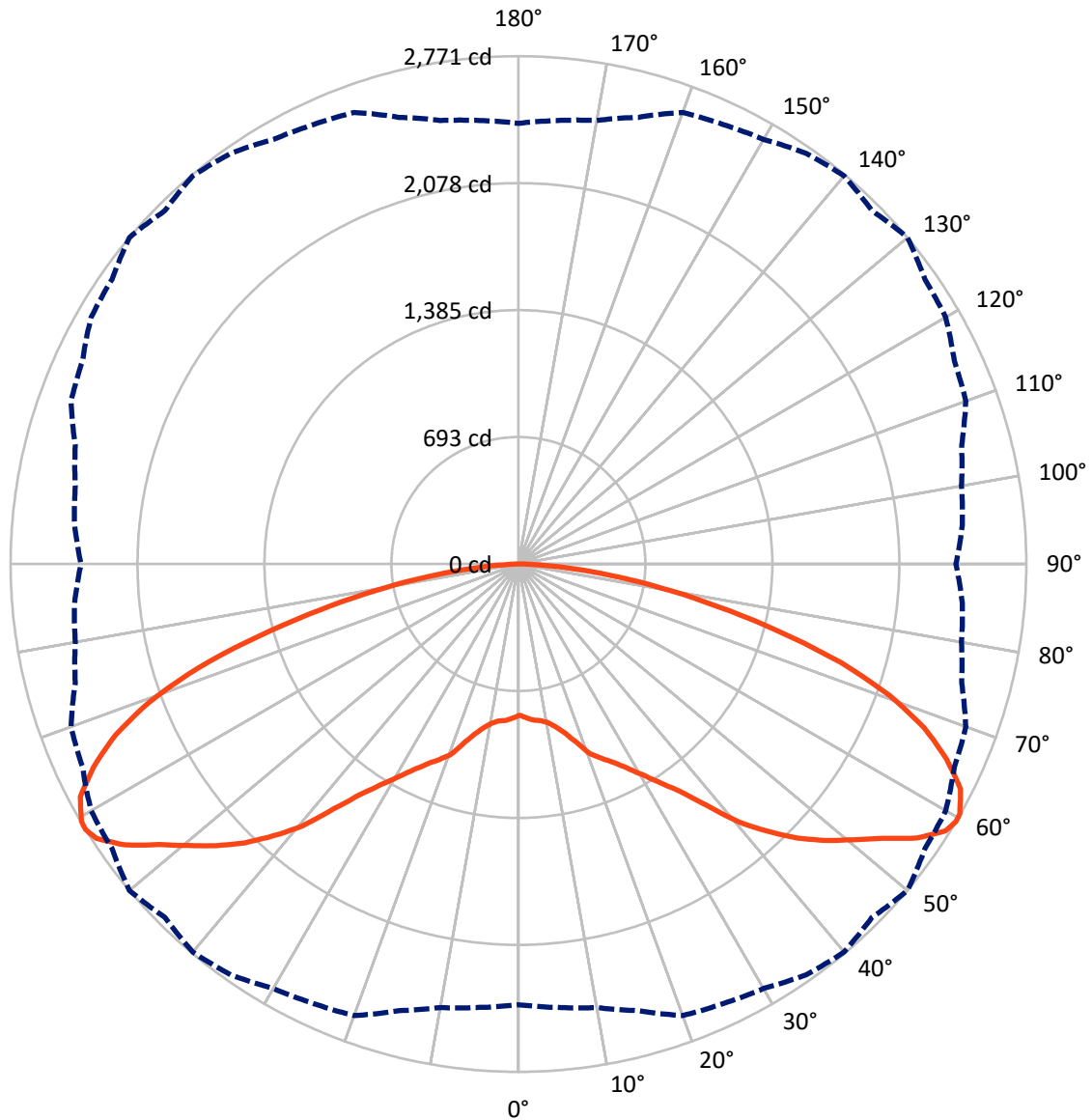


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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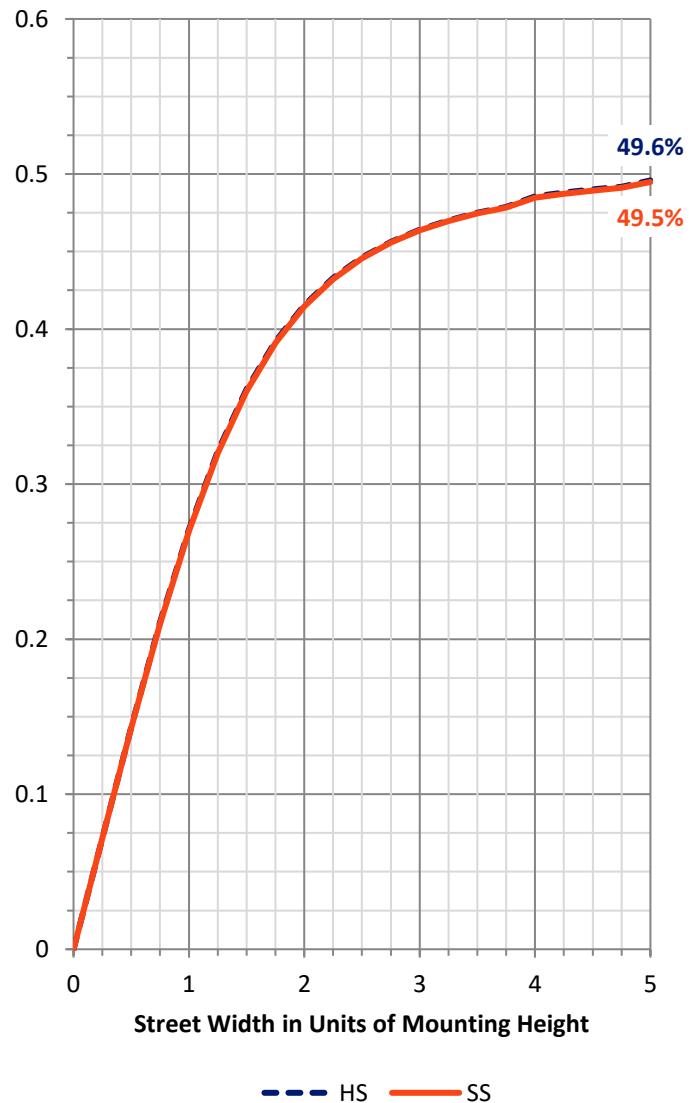
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4955.7 | 0.0 | 4955.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4955.7 | 0.0 | 4955.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9911.3 | 0.0 | 9911.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 82.0 | 0.8 |
| 10°-20° | 276.8 | 2.8 |
| 20°-30° | 557.1 | 5.6 |
| 30°-40° | 958.6 | 9.7 |
| 40°-50° | 1582.6 | 16.0 |
| 50°-60° | 2228.5 | 22.5 |
| 60°-70° | 2384.1 | 24.1 |
| 70°-80° | 1514.3 | 15.3 |
| 80°-90° | 327.3 | 3.3 |
| 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° | 9911.3 | 100.0 |
| 0°-180° | 9911.3 | 100.0 |



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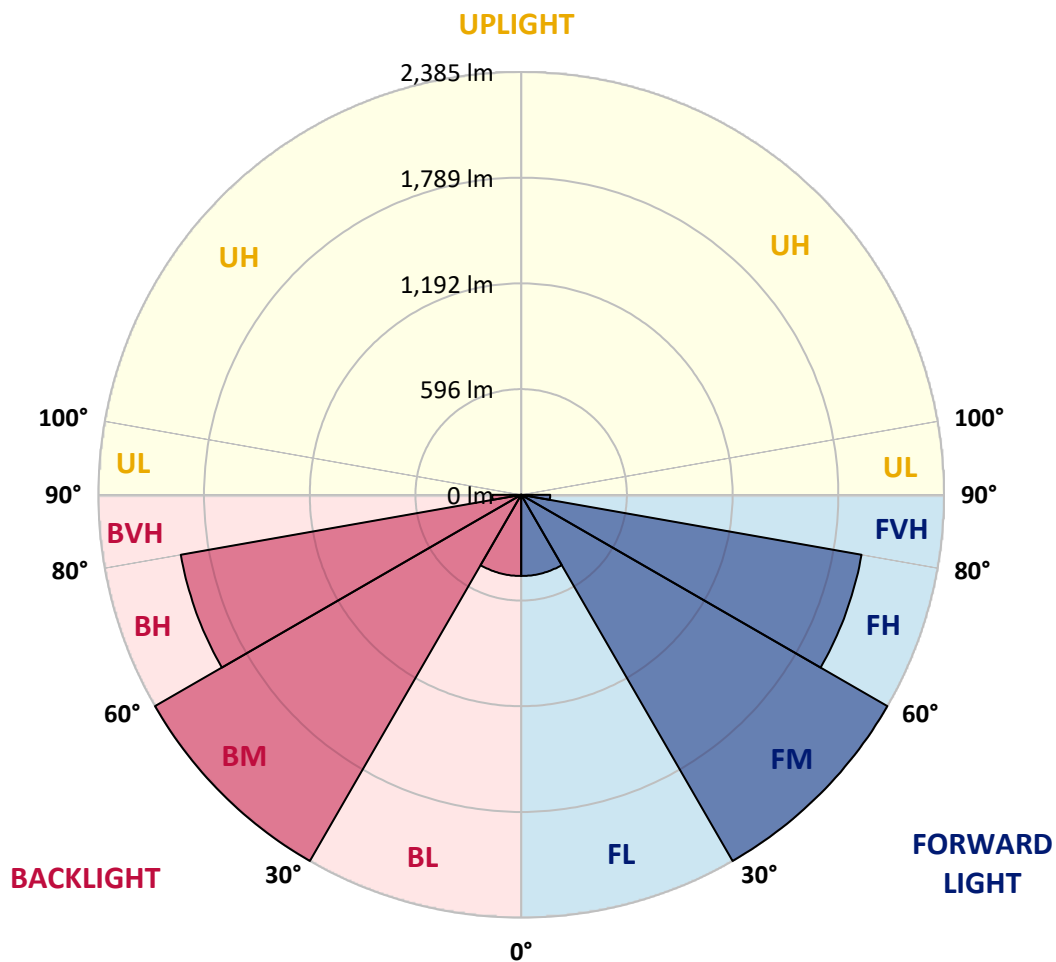
CATALOG NUMBER: TT-C6-LED-E1-5WQ-PM-CG-LWR-LW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 457.9 | 4.6 | | | |
| FM | (30°-60°) | 2384.9 | 24.1 | | | |
| FH | (60°-80°) | 1949.2 | 19.7 | | | G2/5000 |
| FVH | (80°-90°) | 163.6 | 1.7 | | | G2/225 |
| BL | (0°-30°) | 457.9 | 4.6 | B1/500 | | |
| BM | (30°-60°) | 2384.9 | 24.1 | B2/2500 | | |
| BH | (60°-80°) | 1949.2 | 19.7 | B3/2500 | | G2/5000 |
| BVH | (80°-90°) | 163.6 | 1.7 | | | 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° | 824.9 | 824.9 | 824.9 | 824.9 | 824.9 | 824.9 | 824.9 | 824.9 | 824.9 | 824.9 | 824.9 |
| 2.5° | 842.4 | 840.2 | 840.2 | 840.2 | 840.2 | 840.2 | 840.2 | 840.2 | 840.2 | 840.2 | 840.2 |
| 5° | 846.8 | 846.8 | 849.0 | 849.0 | 851.2 | 851.2 | 851.2 | 853.4 | 853.4 | 853.4 | 855.6 |
| 7.5° | 855.6 | 853.4 | 855.6 | 855.6 | 855.6 | 857.8 | 857.8 | 857.8 | 860.0 | 862.2 | 862.2 |
| 10° | 884.1 | 881.9 | 884.1 | 884.1 | 884.1 | 879.7 | 879.7 | 881.9 | 879.7 | 879.7 | 879.7 |
| 12.5° | 917.0 | 917.0 | 919.2 | 921.4 | 921.4 | 919.2 | 917.0 | 914.8 | 912.6 | 912.6 | 912.6 |
| 15° | 947.7 | 949.9 | 952.1 | 956.5 | 958.7 | 958.7 | 960.9 | 963.1 | 960.9 | 960.9 | 958.7 |
| 17.5° | 996.0 | 1000.4 | 1002.6 | 1004.8 | 1004.8 | 1004.8 | 1009.2 | 1015.7 | 1022.3 | 1026.7 | 1022.3 |
| 20° | 1077.2 | 1079.4 | 1083.7 | 1083.7 | 1081.6 | 1083.7 | 1088.1 | 1090.3 | 1094.7 | 1099.1 | 1101.3 |
| 22.5° | 1132.0 | 1136.4 | 1143.0 | 1143.0 | 1140.8 | 1143.0 | 1147.4 | 1147.4 | 1143.0 | 1145.2 | 1149.6 |
| 25° | 1178.1 | 1180.3 | 1184.7 | 1186.9 | 1189.1 | 1200.0 | 1208.8 | 1206.6 | 1197.8 | 1200.0 | 1197.8 |
| 27.5° | 1232.9 | 1237.3 | 1241.7 | 1241.7 | 1241.7 | 1248.3 | 1257.1 | 1261.4 | 1268.0 | 1265.8 | 1259.3 |
| 30° | 1305.3 | 1311.9 | 1314.1 | 1311.9 | 1316.3 | 1322.9 | 1320.7 | 1325.1 | 1336.0 | 1347.0 | 1333.8 |
| 32.5° | 1362.4 | 1368.9 | 1375.5 | 1384.3 | 1399.7 | 1408.4 | 1404.0 | 1406.2 | 1412.8 | 1421.6 | 1421.6 |
| 35° | 1447.9 | 1458.9 | 1463.3 | 1465.5 | 1480.8 | 1498.4 | 1511.5 | 1522.5 | 1520.3 | 1513.7 | 1524.7 |
| 37.5° | 1577.4 | 1588.3 | 1592.7 | 1601.5 | 1621.2 | 1625.6 | 1645.4 | 1671.7 | 1680.5 | 1671.7 | 1671.7 |
| 40° | 1715.6 | 1726.5 | 1748.5 | 1768.2 | 1798.9 | 1805.5 | 1829.6 | 1840.6 | 1862.6 | 1864.7 | 1851.6 |
| 42.5° | 1829.6 | 1842.8 | 1847.2 | 1880.1 | 1921.8 | 1952.5 | 1978.8 | 1981.0 | 1996.4 | 2009.5 | 1994.2 |
| 45° | 1952.5 | 1963.5 | 1970.1 | 2000.8 | 2022.7 | 2060.0 | 2101.7 | 2119.2 | 2125.8 | 2123.6 | 2132.4 |
| 47.5° | 2066.6 | 2081.9 | 2088.5 | 2112.7 | 2139.0 | 2169.7 | 2193.8 | 2244.3 | 2255.3 | 2233.3 | 2253.1 |
| 50° | 2136.8 | 2154.3 | 2169.7 | 2222.3 | 2268.4 | 2292.5 | 2312.3 | 2354.0 | 2378.1 | 2358.4 | 2364.9 |
| 52.5° | 2246.5 | 2250.9 | 2264.0 | 2286.0 | 2354.0 | 2435.1 | 2457.1 | 2470.2 | 2505.3 | 2516.3 | 2485.6 |
| 55° | 2395.7 | 2411.0 | 2422.0 | 2450.5 | 2479.0 | 2536.1 | 2632.6 | 2650.1 | 2641.4 | 2694.0 | 2639.2 |
| 57.5° | 2417.6 | 2446.1 | 2479.0 | 2542.6 | 2599.7 | 2617.2 | 2674.3 | 2742.3 | 2735.7 | 2742.3 | 2746.7 |
| 59° | 2404.4 | 2428.6 | 2457.1 | 2522.9 | 2621.6 | 2645.8 | 2674.3 | 2735.7 | 2764.2 | 2726.9 | 2770.8 |
| 60° | 2408.8 | 2426.4 | 2441.7 | 2494.4 | 2599.7 | 2654.5 | 2672.1 | 2709.4 | 2764.2 | 2713.8 | 2766.4 |
| 62.5° | 2391.3 | 2413.2 | 2430.8 | 2461.5 | 2511.9 | 2588.7 | 2656.7 | 2639.2 | 2718.1 | 2678.7 | 2707.2 |
| 65° | 2296.9 | 2321.1 | 2356.2 | 2400.0 | 2459.3 | 2481.2 | 2549.2 | 2586.5 | 2569.0 | 2612.8 | 2566.8 |
| 67.5° | 2139.0 | 2160.9 | 2182.9 | 2235.5 | 2301.3 | 2329.8 | 2347.4 | 2415.4 | 2391.3 | 2441.7 | 2389.1 |
| 70° | 1928.4 | 1952.5 | 1983.2 | 2011.7 | 2071.0 | 2095.1 | 2114.8 | 2145.6 | 2154.3 | 2154.3 | 2149.9 |
| 72.5° | 1676.1 | 1695.8 | 1715.6 | 1744.1 | 1779.2 | 1801.1 | 1809.9 | 1816.5 | 1851.6 | 1838.4 | 1840.6 |
| 75° | 1390.9 | 1410.6 | 1419.4 | 1430.4 | 1454.5 | 1452.3 | 1461.1 | 1456.7 | 1478.6 | 1469.9 | 1465.5 |
| 77.5° | 1088.1 | 1094.7 | 1118.8 | 1118.8 | 1112.3 | 1123.2 | 1112.3 | 1105.7 | 1101.3 | 1105.7 | 1105.7 |
| 80° | 754.7 | 774.4 | 789.8 | 800.7 | 805.1 | 800.7 | 802.9 | 794.2 | 794.2 | 787.6 | 789.8 |
| 82.5° | 465.1 | 484.8 | 491.4 | 502.4 | 504.6 | 504.6 | 504.6 | 498.0 | 500.2 | 493.6 | 498.0 |
| 85° | 228.2 | 228.2 | 236.9 | 247.9 | 250.1 | 254.5 | 254.5 | 254.5 | 254.5 | 254.5 | 256.7 |
| 87.5° | 57.0 | 57.0 | 61.4 | 68.0 | 68.0 | 70.2 | 72.4 | 74.6 | 74.6 | 76.8 | 76.8 |
| 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° | 824.9 | 824.9 | 824.9 | 824.9 | 824.9 | 824.9 | 824.9 | 824.9 |
| 2.5° | 840.2 | 840.2 | 840.2 | 840.2 | 840.2 | 840.2 | 840.2 | 840.2 |
| 5° | 855.6 | 853.4 | 853.4 | 851.2 | 851.2 | 849.0 | 849.0 | 849.0 |
| 7.5° | 864.4 | 864.4 | 862.2 | 860.0 | 857.8 | 857.8 | 860.0 | 860.0 |
| 10° | 881.9 | 886.3 | 888.5 | 888.5 | 886.3 | 886.3 | 884.1 | 884.1 |
| 12.5° | 910.4 | 914.8 | 919.2 | 923.6 | 923.6 | 921.4 | 917.0 | 914.8 |
| 15° | 954.3 | 954.3 | 956.5 | 958.7 | 958.7 | 954.3 | 945.5 | 945.5 |
| 17.5° | 1013.5 | 1009.2 | 1002.6 | 1004.8 | 1007.0 | 1004.8 | 996.0 | 1000.4 |
| 20° | 1094.7 | 1085.9 | 1081.6 | 1077.2 | 1085.9 | 1085.9 | 1072.8 | 1072.8 |
| 22.5° | 1154.0 | 1147.4 | 1136.4 | 1134.2 | 1140.8 | 1145.2 | 1134.2 | 1127.6 |
| 25° | 1204.4 | 1206.6 | 1193.4 | 1186.9 | 1189.1 | 1191.2 | 1175.9 | 1178.1 |
| 27.5° | 1259.3 | 1261.4 | 1254.9 | 1243.9 | 1239.5 | 1246.1 | 1235.1 | 1230.7 |
| 30° | 1325.1 | 1322.9 | 1327.3 | 1314.1 | 1303.1 | 1309.7 | 1309.7 | 1298.7 |
| 32.5° | 1410.6 | 1404.0 | 1406.2 | 1390.9 | 1377.7 | 1375.5 | 1366.8 | 1353.6 |
| 35° | 1526.9 | 1509.4 | 1496.2 | 1487.4 | 1463.3 | 1458.9 | 1458.9 | 1443.5 |
| 37.5° | 1678.3 | 1651.9 | 1627.8 | 1627.8 | 1590.5 | 1579.6 | 1586.1 | 1566.4 |
| 40° | 1847.2 | 1838.4 | 1801.1 | 1794.5 | 1755.1 | 1728.7 | 1728.7 | 1704.6 |
| 42.5° | 1970.1 | 1981.0 | 1937.1 | 1910.8 | 1884.5 | 1842.8 | 1847.2 | 1816.5 |
| 45° | 2103.9 | 2097.3 | 2060.0 | 2013.9 | 2005.2 | 1961.3 | 1965.7 | 1935.0 |
| 47.5° | 2231.1 | 2191.6 | 2174.1 | 2128.0 | 2108.3 | 2057.8 | 2073.2 | 2049.0 |
| 50° | 2354.0 | 2310.1 | 2292.5 | 2237.7 | 2211.4 | 2156.5 | 2158.7 | 2114.8 |
| 52.5° | 2481.2 | 2441.7 | 2415.4 | 2345.2 | 2299.1 | 2259.6 | 2250.9 | 2231.1 |
| 55° | 2645.8 | 2604.1 | 2540.4 | 2474.6 | 2439.5 | 2382.5 | 2389.1 | 2358.4 |
| 57.5° | 2709.4 | 2683.0 | 2615.0 | 2575.5 | 2509.7 | 2452.7 | 2439.5 | 2384.7 |
| 59° | 2707.2 | 2691.8 | 2623.8 | 2597.5 | 2503.2 | 2454.9 | 2430.8 | 2386.9 |
| 60° | 2691.8 | 2687.4 | 2619.4 | 2586.5 | 2487.8 | 2443.9 | 2422.0 | 2393.5 |
| 62.5° | 2645.8 | 2643.6 | 2566.8 | 2527.3 | 2446.1 | 2411.0 | 2397.8 | 2360.6 |
| 65° | 2577.7 | 2540.4 | 2481.2 | 2454.9 | 2371.5 | 2345.2 | 2307.9 | 2270.6 |
| 67.5° | 2415.4 | 2332.0 | 2323.3 | 2290.4 | 2218.0 | 2185.0 | 2160.9 | 2125.8 |
| 70° | 2147.8 | 2092.9 | 2092.9 | 2051.2 | 2000.8 | 1985.4 | 1952.5 | 1913.0 |
| 72.5° | 1814.3 | 1801.1 | 1807.7 | 1759.4 | 1735.3 | 1726.5 | 1698.0 | 1662.9 |
| 75° | 1450.1 | 1452.3 | 1445.7 | 1434.8 | 1428.2 | 1430.4 | 1399.7 | 1384.3 |
| 77.5° | 1099.1 | 1118.8 | 1114.5 | 1099.1 | 1114.5 | 1112.3 | 1085.9 | 1079.4 |
| 80° | 783.2 | 792.0 | 796.4 | 787.6 | 796.4 | 789.8 | 767.8 | 765.6 |
| 82.5° | 493.6 | 495.8 | 500.2 | 491.4 | 493.6 | 491.4 | 476.1 | 476.1 |
| 85° | 252.3 | 261.1 | 250.1 | 241.3 | 241.3 | 232.5 | 228.2 | 230.4 |
| 87.5° | 74.6 | 79.0 | 70.2 | 70.2 | 65.8 | 61.4 | 59.2 | 59.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)