

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: P197914

Luminaire Tested: **TT-C6-LED-E1-5WQ-PM-SG-MS/DIM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197914
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-E1-5WQ-PM-SG-MS/DIM
Description: TOPTIER LED AREA/SITE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10485.6 lumens
Efficiency: N/A
Efficacy: 97.1 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

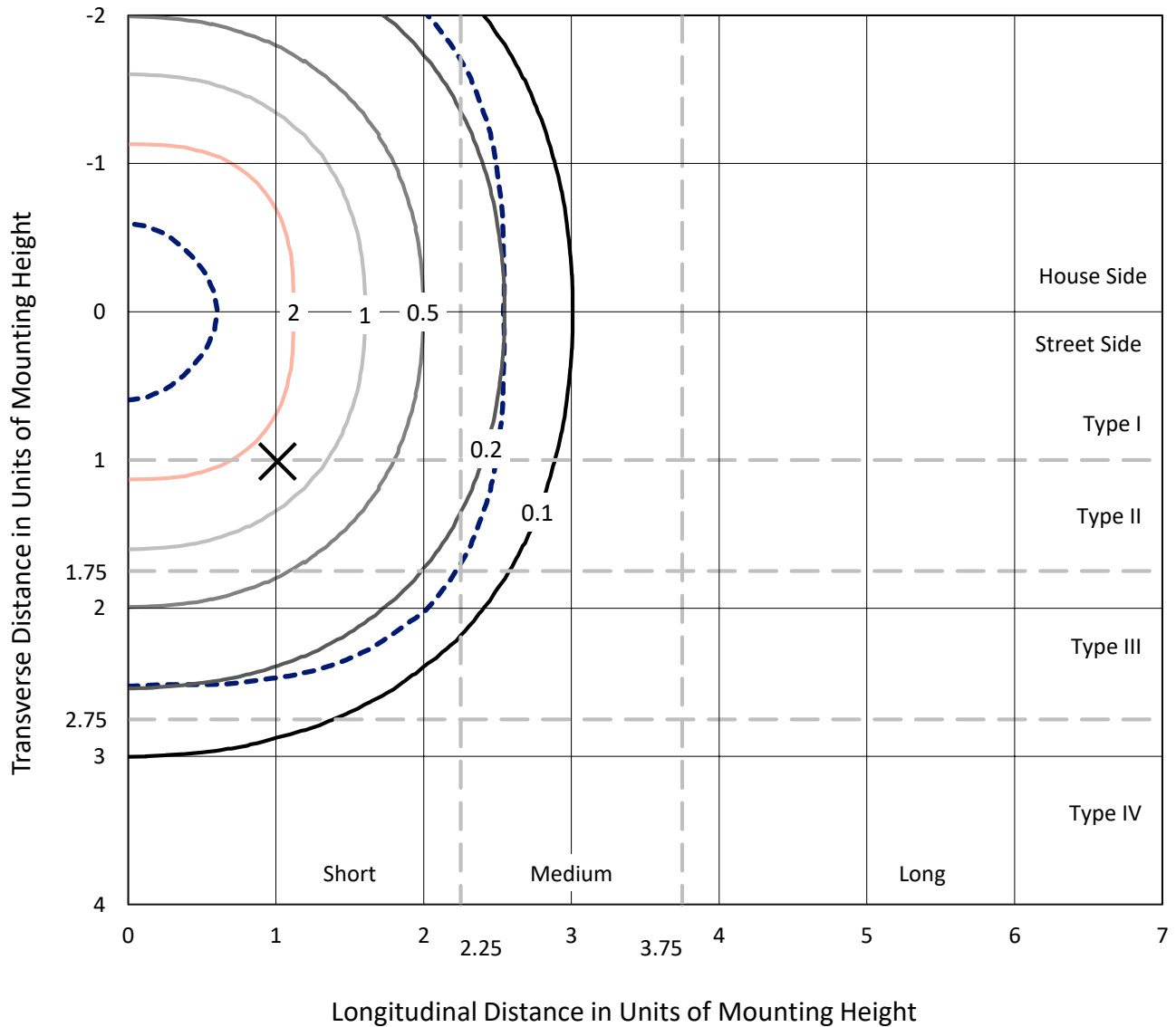


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

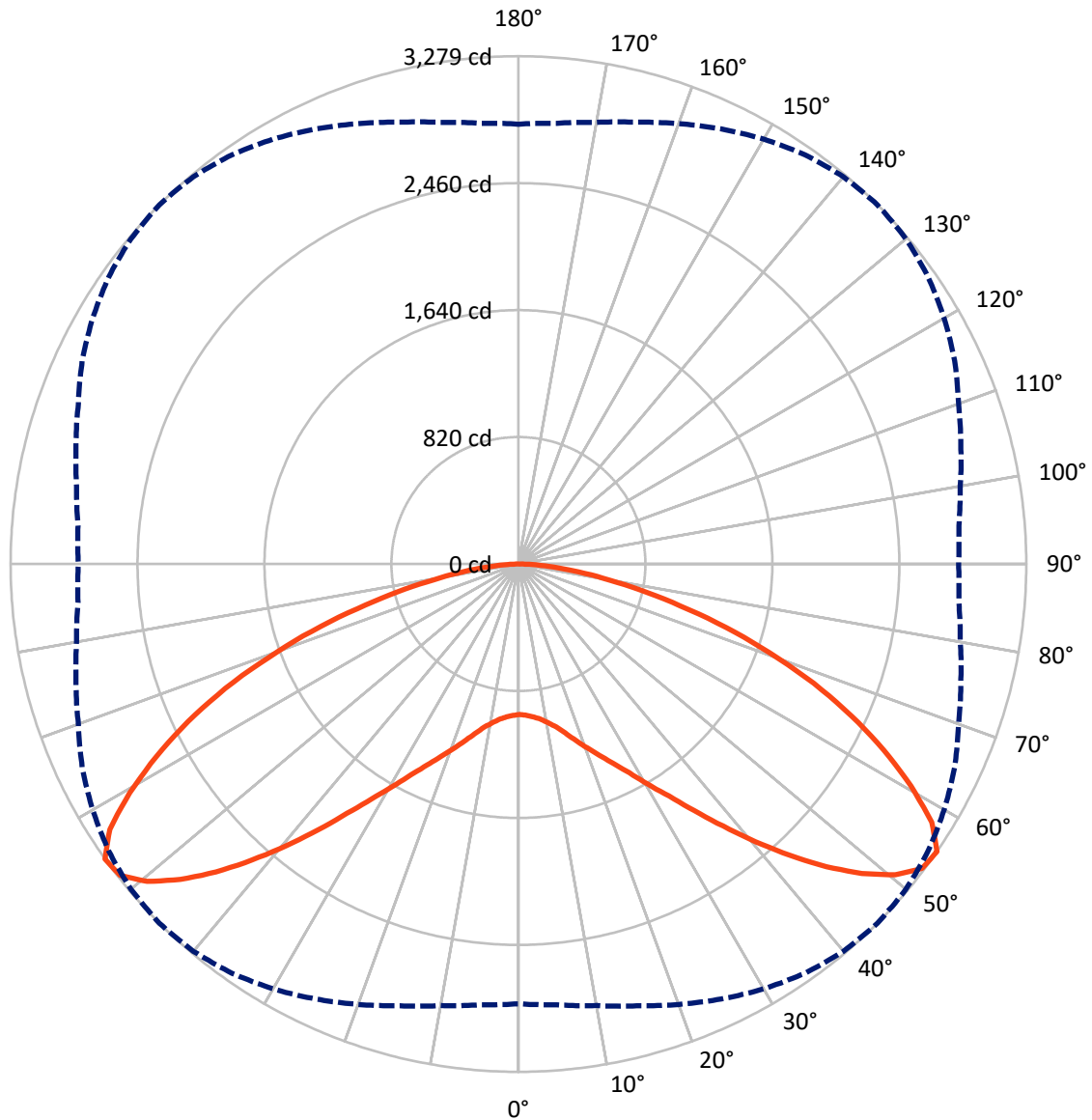


Based on 20 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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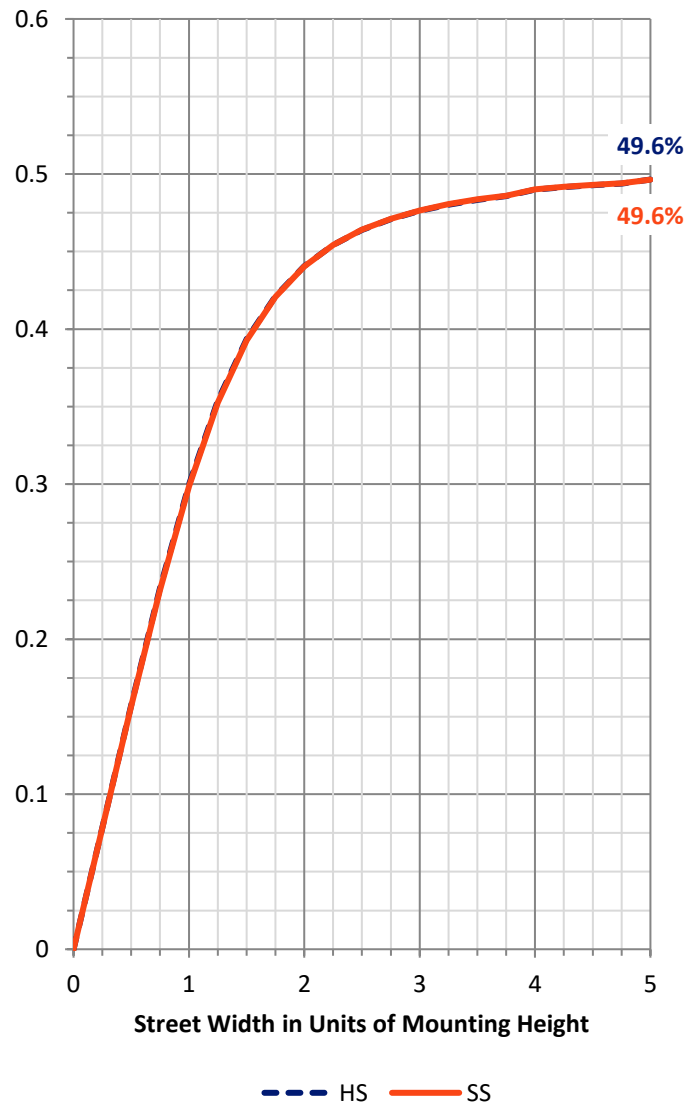
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5242.8 | 0.0 | 5242.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5242.8 | 0.0 | 5242.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10485.6 | 0.0 | 10485.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 96.0 | 0.9 |
| 10°-20° | 325.5 | 3.1 |
| 20°-30° | 662.9 | 6.3 |
| 30°-40° | 1210.5 | 11.5 |
| 40°-50° | 2055.3 | 19.6 |
| 50°-60° | 2676.7 | 25.5 |
| 60°-70° | 2164.8 | 20.6 |
| 70°-80° | 1063.8 | 10.1 |
| 80°-90° | 230.3 | 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° | 10485.6 | 100.0 |
| 0°-180° | 10485.6 | 100.0 |

Coefficient of Utilization



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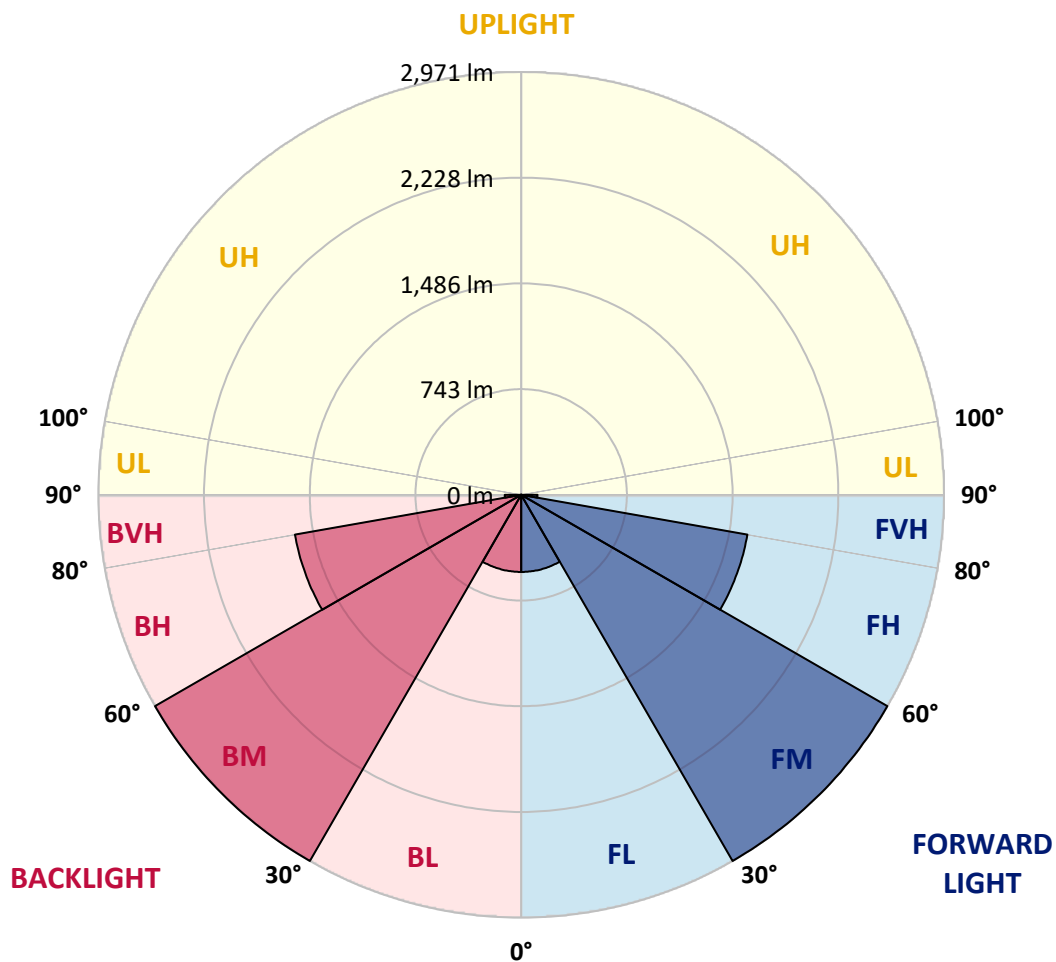
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 542.2 | 5.2 | | | |
| FM | (30°-60°) | 2971.2 | 28.3 | | | |
| FH | (60°-80°) | 1614.3 | 15.4 | | | G1/1800 |
| FVH | (80°-90°) | 115.1 | 1.1 | | | G2/225 |
| BL | (0°-30°) | 542.2 | 5.2 | B2/1000 | | |
| BM | (30°-60°) | 2971.2 | 28.3 | B3/5000 | | |
| BH | (60°-80°) | 1614.3 | 15.4 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 115.1 | 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° | 971.6 | 971.6 | 971.6 | 971.6 | 971.6 | 971.6 | 971.6 | 971.6 | 971.6 | 971.6 | 971.6 |
| 2.5° | 975.8 | 975.8 | 975.8 | 975.8 | 975.8 | 975.8 | 978.0 | 978.0 | 978.0 | 978.0 | 978.0 |
| 5° | 988.7 | 988.7 | 988.7 | 990.9 | 990.9 | 990.9 | 990.9 | 990.9 | 990.9 | 990.9 | 990.9 |
| 7.5° | 1008.0 | 1005.8 | 1008.0 | 1008.0 | 1008.0 | 1010.2 | 1010.2 | 1008.0 | 1010.2 | 1010.2 | 1010.2 |
| 10° | 1035.9 | 1033.7 | 1035.9 | 1035.9 | 1035.9 | 1038.1 | 1038.1 | 1038.1 | 1038.1 | 1040.3 | 1040.3 |
| 12.5° | 1076.7 | 1074.5 | 1076.7 | 1078.9 | 1076.7 | 1078.9 | 1078.9 | 1078.9 | 1078.9 | 1078.9 | 1078.9 |
| 15° | 1128.2 | 1126.1 | 1128.2 | 1130.2 | 1128.2 | 1132.4 | 1132.4 | 1130.2 | 1130.2 | 1132.4 | 1132.4 |
| 17.5° | 1190.3 | 1186.2 | 1188.1 | 1190.3 | 1190.3 | 1194.7 | 1194.7 | 1192.5 | 1194.7 | 1196.7 | 1194.7 |
| 20° | 1254.6 | 1250.4 | 1252.6 | 1259.0 | 1259.0 | 1261.2 | 1265.4 | 1263.4 | 1265.4 | 1267.5 | 1265.4 |
| 22.5° | 1325.5 | 1323.3 | 1325.5 | 1331.8 | 1331.8 | 1334.0 | 1340.4 | 1340.4 | 1340.4 | 1342.6 | 1340.4 |
| 25° | 1402.7 | 1400.5 | 1402.7 | 1409.0 | 1409.0 | 1413.4 | 1422.0 | 1422.0 | 1424.2 | 1426.4 | 1424.2 |
| 27.5° | 1492.8 | 1490.7 | 1494.8 | 1501.4 | 1503.6 | 1510.0 | 1520.7 | 1522.9 | 1524.9 | 1527.1 | 1522.9 |
| 30° | 1597.9 | 1593.5 | 1599.9 | 1610.7 | 1615.0 | 1623.6 | 1636.5 | 1640.7 | 1642.9 | 1649.3 | 1645.1 |
| 32.5° | 1717.9 | 1713.8 | 1722.3 | 1735.0 | 1741.6 | 1754.3 | 1771.7 | 1775.8 | 1782.2 | 1786.6 | 1780.2 |
| 35° | 1859.4 | 1857.4 | 1866.0 | 1885.3 | 1896.1 | 1911.0 | 1934.7 | 1941.0 | 1945.4 | 1954.0 | 1945.4 |
| 37.5° | 2016.1 | 2013.9 | 2029.0 | 2050.5 | 2069.8 | 2093.3 | 2118.9 | 2129.7 | 2136.3 | 2147.0 | 2136.3 |
| 40° | 2189.8 | 2187.6 | 2206.9 | 2232.8 | 2256.3 | 2286.3 | 2318.6 | 2333.5 | 2346.4 | 2357.2 | 2344.2 |
| 42.5° | 2367.9 | 2367.9 | 2391.4 | 2419.3 | 2453.7 | 2490.1 | 2526.5 | 2543.7 | 2565.2 | 2571.5 | 2556.6 |
| 45° | 2539.5 | 2541.5 | 2565.2 | 2599.4 | 2648.7 | 2695.9 | 2736.7 | 2758.2 | 2781.7 | 2788.3 | 2769.0 |
| 47.5° | 2702.5 | 2704.7 | 2726.0 | 2771.1 | 2826.9 | 2880.4 | 2929.8 | 2959.8 | 2983.3 | 2985.5 | 2970.6 |
| 50° | 2835.4 | 2844.0 | 2871.8 | 2912.6 | 2970.6 | 3026.3 | 3086.4 | 3125.0 | 3148.5 | 3155.1 | 3139.9 |
| 52.5° | 2887.0 | 2901.9 | 2934.1 | 2985.5 | 3051.9 | 3109.9 | 3176.3 | 3225.7 | 3253.6 | 3264.3 | 3251.6 |
| 55° | 2839.6 | 2856.9 | 2895.5 | 2953.4 | 3026.3 | 3099.1 | 3167.8 | 3225.7 | 3264.3 | 3279.4 | 3266.5 |
| 57.5° | 2734.5 | 2736.7 | 2775.3 | 2833.2 | 2899.7 | 2974.7 | 3041.2 | 3094.9 | 3131.4 | 3146.5 | 3144.3 |
| 60° | 2552.2 | 2552.2 | 2588.8 | 2644.6 | 2695.9 | 2773.1 | 2829.1 | 2869.6 | 2895.5 | 2912.6 | 2908.3 |
| 62.5° | 2307.8 | 2307.8 | 2339.9 | 2397.8 | 2449.3 | 2515.8 | 2569.5 | 2612.3 | 2629.4 | 2648.7 | 2653.1 |
| 65° | 2035.4 | 2035.4 | 2065.4 | 2123.3 | 2170.5 | 2230.6 | 2281.9 | 2322.7 | 2339.9 | 2363.5 | 2359.2 |
| 67.5° | 1745.8 | 1743.8 | 1771.7 | 1820.8 | 1866.0 | 1921.7 | 1971.1 | 2009.7 | 2029.0 | 2056.9 | 2037.6 |
| 70° | 1447.7 | 1447.7 | 1471.3 | 1510.0 | 1542.0 | 1597.9 | 1645.1 | 1683.7 | 1698.6 | 1722.3 | 1711.6 |
| 72.5° | 1164.7 | 1162.5 | 1181.8 | 1211.8 | 1237.5 | 1286.9 | 1314.7 | 1357.7 | 1370.4 | 1402.7 | 1385.6 |
| 75° | 909.3 | 905.1 | 920.1 | 941.6 | 958.7 | 990.9 | 1012.4 | 1046.6 | 1057.4 | 1078.9 | 1070.3 |
| 77.5° | 684.2 | 682.0 | 688.4 | 703.5 | 716.3 | 742.1 | 750.7 | 767.8 | 776.4 | 797.9 | 780.8 |
| 80° | 491.2 | 484.8 | 491.2 | 499.7 | 504.1 | 523.4 | 525.4 | 532.0 | 536.2 | 551.3 | 534.0 |
| 82.5° | 330.4 | 321.8 | 326.0 | 332.4 | 332.4 | 343.1 | 345.3 | 343.1 | 351.7 | 356.0 | 347.5 |
| 85° | 188.7 | 182.3 | 184.5 | 188.7 | 186.7 | 193.1 | 193.1 | 190.9 | 197.2 | 197.2 | 193.1 |
| 87.5° | 62.3 | 57.9 | 60.1 | 62.3 | 62.3 | 64.3 | 66.5 | 64.3 | 68.7 | 68.7 | 64.3 |
| 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° | 971.6 | 971.6 | 971.6 | 971.6 | 971.6 | 971.6 | 971.6 | 971.6 |
| 2.5° | 978.0 | 978.0 | 978.0 | 978.0 | 978.0 | 978.0 | 978.0 | 978.0 |
| 5° | 990.9 | 990.9 | 990.9 | 990.9 | 990.9 | 988.7 | 988.7 | 988.7 |
| 7.5° | 1010.2 | 1010.2 | 1010.2 | 1010.2 | 1010.2 | 1008.0 | 1008.0 | 1008.0 |
| 10° | 1040.3 | 1038.1 | 1038.1 | 1038.1 | 1038.1 | 1035.9 | 1038.1 | 1035.9 |
| 12.5° | 1078.9 | 1080.9 | 1080.9 | 1078.9 | 1080.9 | 1076.7 | 1076.7 | 1076.7 |
| 15° | 1132.4 | 1130.2 | 1130.2 | 1130.2 | 1130.2 | 1128.2 | 1128.2 | 1128.2 |
| 17.5° | 1192.5 | 1192.5 | 1190.3 | 1190.3 | 1188.1 | 1186.2 | 1186.2 | 1186.2 |
| 20° | 1263.4 | 1261.2 | 1259.0 | 1256.8 | 1254.6 | 1250.4 | 1248.2 | 1248.2 |
| 22.5° | 1336.2 | 1334.0 | 1331.8 | 1329.9 | 1327.7 | 1323.3 | 1319.1 | 1319.1 |
| 25° | 1417.6 | 1413.4 | 1411.2 | 1407.1 | 1402.7 | 1398.3 | 1396.3 | 1394.1 |
| 27.5° | 1516.3 | 1512.2 | 1505.6 | 1499.2 | 1490.7 | 1488.5 | 1484.3 | 1484.3 |
| 30° | 1634.3 | 1628.0 | 1619.2 | 1608.7 | 1599.9 | 1591.3 | 1587.2 | 1585.0 |
| 32.5° | 1771.7 | 1763.1 | 1748.0 | 1735.0 | 1720.1 | 1711.6 | 1705.2 | 1700.8 |
| 35° | 1932.5 | 1919.5 | 1902.4 | 1883.1 | 1863.8 | 1848.9 | 1838.1 | 1838.1 |
| 37.5° | 2121.1 | 2101.8 | 2076.2 | 2052.5 | 2024.6 | 2007.5 | 1994.6 | 1986.0 |
| 40° | 2327.1 | 2299.3 | 2267.0 | 2237.0 | 2204.9 | 2181.2 | 2161.9 | 2164.1 |
| 42.5° | 2530.9 | 2507.2 | 2468.6 | 2432.2 | 2391.4 | 2359.2 | 2335.7 | 2333.5 |
| 45° | 2745.3 | 2715.2 | 2668.0 | 2620.9 | 2573.7 | 2535.1 | 2507.2 | 2502.9 |
| 47.5° | 2944.7 | 2912.6 | 2856.9 | 2799.0 | 2747.5 | 2704.7 | 2674.6 | 2670.2 |
| 50° | 3107.9 | 3069.3 | 3011.4 | 2949.1 | 2893.3 | 2846.2 | 2813.9 | 2805.4 |
| 52.5° | 3213.0 | 3170.0 | 3107.9 | 3032.6 | 2972.8 | 2919.0 | 2880.4 | 2869.6 |
| 55° | 3230.1 | 3174.4 | 3107.9 | 3024.1 | 2957.6 | 2897.5 | 2854.7 | 2841.8 |
| 57.5° | 3112.1 | 3051.9 | 2992.1 | 2919.0 | 2852.5 | 2788.3 | 2753.8 | 2736.7 |
| 60° | 2882.6 | 2835.4 | 2786.1 | 2719.6 | 2666.1 | 2606.0 | 2578.1 | 2569.5 |
| 62.5° | 2618.7 | 2578.1 | 2532.9 | 2464.5 | 2419.3 | 2365.7 | 2339.9 | 2329.3 |
| 65° | 2335.7 | 2288.5 | 2245.5 | 2189.8 | 2140.4 | 2095.5 | 2059.1 | 2054.7 |
| 67.5° | 2022.4 | 1973.3 | 1936.6 | 1887.5 | 1838.1 | 1795.1 | 1771.7 | 1758.7 |
| 70° | 1692.3 | 1651.5 | 1615.0 | 1561.3 | 1529.3 | 1488.5 | 1471.3 | 1458.4 |
| 72.5° | 1364.1 | 1340.4 | 1295.4 | 1261.2 | 1224.8 | 1192.5 | 1181.8 | 1168.8 |
| 75° | 1055.2 | 1027.3 | 993.1 | 971.6 | 943.8 | 926.6 | 917.9 | 909.3 |
| 77.5° | 774.2 | 750.7 | 731.4 | 722.8 | 709.9 | 692.8 | 686.4 | 679.8 |
| 80° | 536.2 | 525.4 | 512.7 | 510.5 | 501.9 | 489.0 | 486.8 | 484.8 |
| 82.5° | 347.5 | 341.1 | 336.7 | 336.7 | 332.4 | 323.8 | 321.8 | 321.8 |
| 85° | 193.1 | 190.9 | 193.1 | 190.9 | 186.7 | 182.3 | 182.3 | 182.3 |
| 87.5° | 64.3 | 64.3 | 66.5 | 68.7 | 62.3 | 62.3 | 60.1 | 60.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)