

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: LUMARK

Report Number: P286964

Luminaire Tested: **PRV-C40-D-UNV-T3-BZ-7050**

Issue Date: 3/4/2019

Test Information

Test Method: LM-79-08
Report Number: P286964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-6)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 3/4/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-C40-D-UNV-T3-BZ-7050
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17455 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

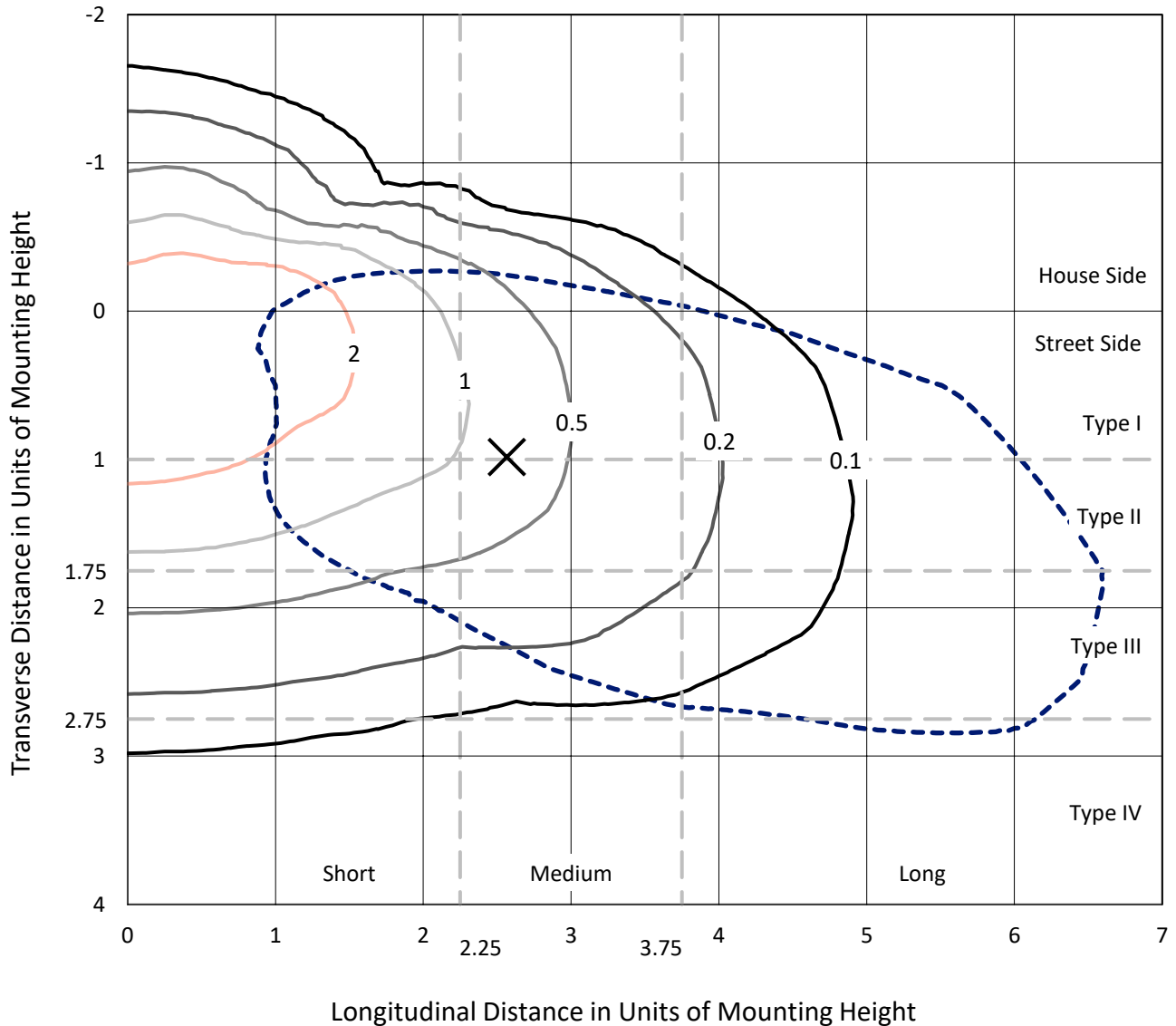
Input Watts (W): 131
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

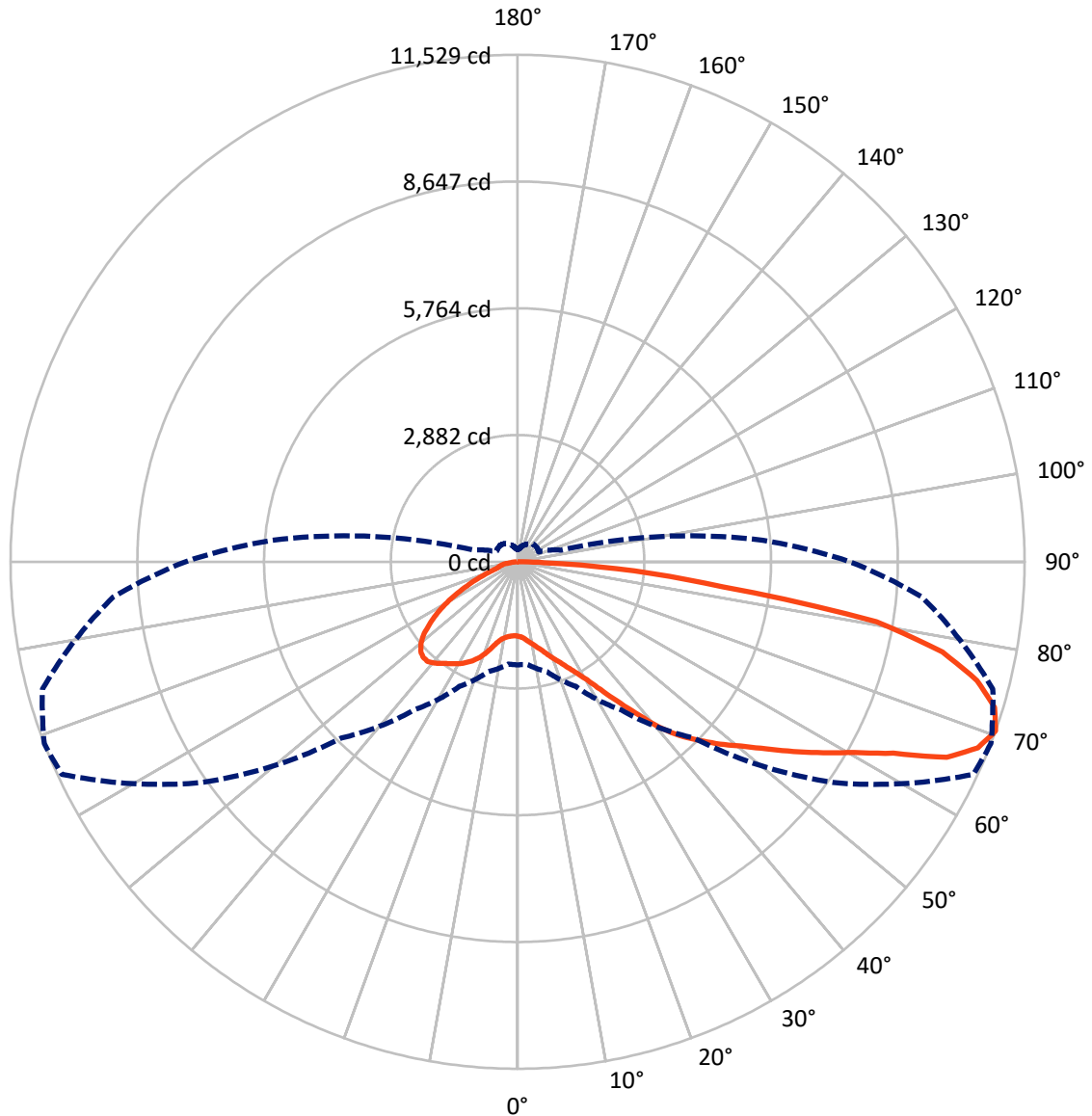
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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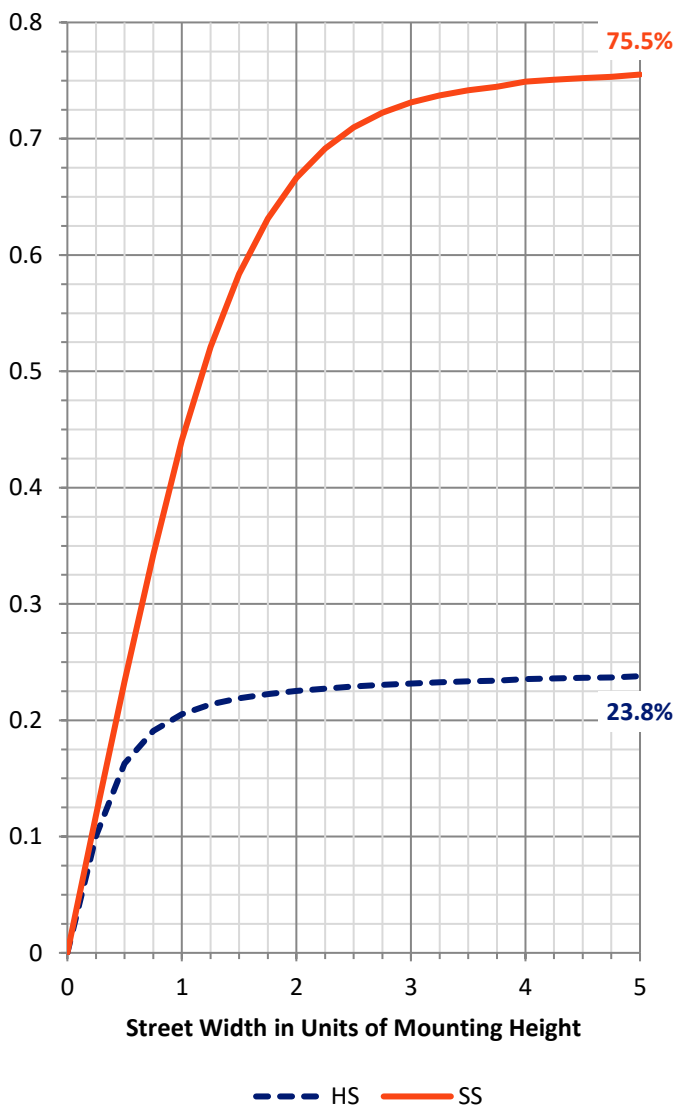
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4233.7 | 0.0 | 4233.7 |
| | % Fixture | 24.3 | 0.0 | 24.3 |
| Street Side | Lumens | 13221.3 | 0.0 | 13221.3 |
| | % Fixture | 75.7 | 0.0 | 75.7 |
| Total | Lumens | 17455.0 | 0.0 | 17455.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 167.9 | 1.0 |
| 10°-20° | 552.0 | 3.2 |
| 20°-30° | 1038.1 | 5.9 |
| 30°-40° | 1777.2 | 10.2 |
| 40°-50° | 2714.4 | 15.6 |
| 50°-60° | 3510.2 | 20.1 |
| 60°-70° | 3992.8 | 22.9 |
| 70°-80° | 3042.4 | 17.4 |
| 80°-90° | 660.0 | 3.8 |
| 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° | 17455.0 | 100.0 |
| 0°-180° | 17455.0 | 100.0 |

Coefficient of Utilization

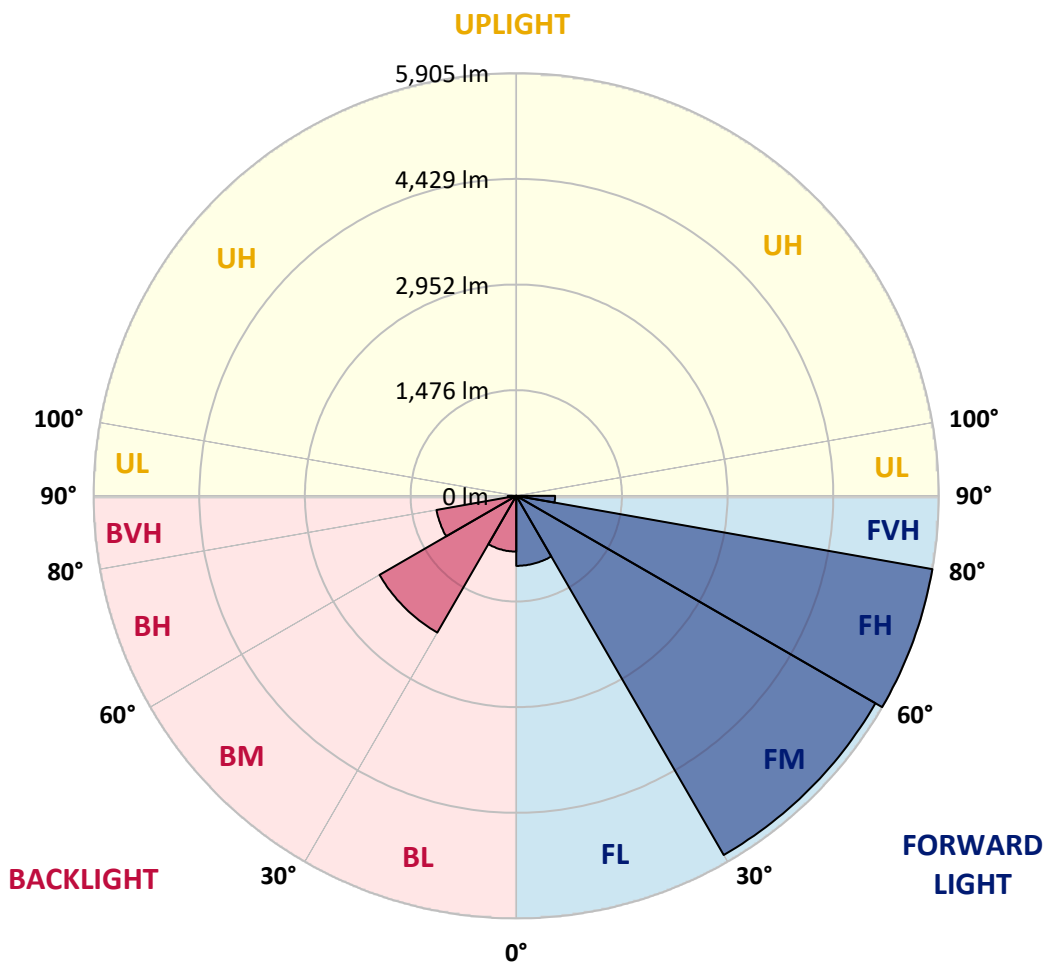


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 978.5 | 5.6 | | | |
| FM (30°-60°) | 5795.5 | 33.2 | | | |
| FH (60°-80°) | 5904.8 | 33.8 | | | G3/7500 |
| FVH (80°-90°) | 542.5 | 3.1 | | | G4/750 |
| BL (0°-30°) | 779.5 | 4.5 | B2/1000 | | |
| BM (30°-60°) | 2206.3 | 12.6 | B2/2500 | | |
| BH (60°-80°) | 1130.5 | 6.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 117.5 | 0.7 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 69° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0° | 1695.5 | 1695.5 | 1695.5 | 1695.5 | 1695.5 | 1695.5 | 1695.5 | 1695.5 | 1695.5 | 1695.5 | 1695.5 |
| 2.5° | 1798.7 | 1786.8 | 1787.6 | 1756.9 | 1757.8 | 1745.8 | 1739.0 | 1728.8 | 1711.7 | 1717.7 | 1689.5 |
| 5° | 1885.8 | 1869.6 | 1874.7 | 1838.0 | 1836.3 | 1820.1 | 1803.0 | 1772.3 | 1764.6 | 1761.2 | 1736.4 |
| 7.5° | 1942.9 | 1939.5 | 1937.0 | 1918.2 | 1916.5 | 1897.7 | 1881.5 | 1848.2 | 1835.4 | 1820.1 | 1788.5 |
| 10° | 1998.4 | 2001.0 | 2003.5 | 1971.1 | 1991.6 | 1969.4 | 1951.5 | 1924.2 | 1907.1 | 1902.0 | 1853.3 |
| 12.5° | 2026.6 | 2029.1 | 2042.8 | 2033.4 | 2045.3 | 2057.3 | 2039.4 | 2011.2 | 1994.1 | 1994.1 | 1937.8 |
| 15° | 2051.3 | 2058.1 | 2081.2 | 2088.8 | 2110.2 | 2120.4 | 2134.1 | 2116.2 | 2090.6 | 2086.3 | 2039.4 |
| 17.5° | 2093.1 | 2089.7 | 2110.2 | 2144.3 | 2169.1 | 2188.7 | 2227.1 | 2222.0 | 2220.3 | 2209.2 | 2175.0 |
| 20° | 2149.4 | 2143.5 | 2163.9 | 2178.4 | 2216.8 | 2275.7 | 2327.8 | 2354.2 | 2352.5 | 2346.5 | 2316.7 |
| 22.5° | 2210.9 | 2204.9 | 2205.7 | 2216.8 | 2268.9 | 2357.6 | 2437.8 | 2488.2 | 2489.0 | 2492.5 | 2519.8 |
| 25° | 2315.8 | 2291.1 | 2283.4 | 2292.8 | 2355.1 | 2463.4 | 2566.7 | 2649.5 | 2665.7 | 2685.3 | 2772.3 |
| 27.5° | 2570.1 | 2582.0 | 2477.9 | 2410.5 | 2462.6 | 2595.7 | 2716.9 | 2838.9 | 2864.5 | 2923.4 | 3097.4 |
| 30° | 2965.2 | 2945.5 | 2892.6 | 2745.9 | 2627.3 | 2745.9 | 2916.5 | 3067.6 | 3116.2 | 3266.4 | 3423.4 |
| 32.5° | 3263.8 | 3264.7 | 3239.1 | 3114.5 | 2950.7 | 2921.7 | 3114.5 | 3364.5 | 3460.9 | 3740.0 | 3880.8 |
| 35° | 3566.7 | 3553.9 | 3576.1 | 3458.4 | 3313.3 | 3210.1 | 3330.4 | 3660.6 | 3881.6 | 4294.6 | 4370.5 |
| 37.5° | 3850.9 | 3855.2 | 3860.3 | 3746.8 | 3677.7 | 3641.8 | 3628.2 | 4043.7 | 4361.2 | 4810.0 | 4857.8 |
| 40° | 4061.6 | 4084.7 | 4100.9 | 4038.6 | 4013.9 | 4015.6 | 3956.7 | 4498.5 | 4938.0 | 5380.0 | 5325.4 |
| 42.5° | 4229.7 | 4256.2 | 4374.0 | 4290.3 | 4326.2 | 4397.8 | 4387.6 | 4858.6 | 5405.6 | 5816.9 | 5753.7 |
| 45° | 4370.5 | 4371.4 | 4453.3 | 4486.6 | 4614.6 | 4750.3 | 4761.3 | 5242.6 | 5793.0 | 6211.1 | 6089.9 |
| 47.5° | 4467.8 | 4450.7 | 4514.7 | 4650.4 | 4885.9 | 5045.5 | 5151.3 | 5676.9 | 6193.2 | 6564.3 | 6433.8 |
| 50° | 4497.7 | 4521.6 | 4628.2 | 4800.6 | 5114.6 | 5366.3 | 5589.0 | 6227.3 | 6583.1 | 6909.9 | 6712.8 |
| 52.5° | 4553.1 | 4563.4 | 4712.7 | 4938.0 | 5346.7 | 5682.0 | 5903.9 | 6795.6 | 7062.7 | 7264.0 | 7054.1 |
| 55° | 4600.1 | 4629.1 | 4771.6 | 5010.5 | 5493.5 | 5938.0 | 6237.5 | 7313.5 | 7614.7 | 7654.0 | 7411.7 |
| 57.5° | 4432.0 | 4460.1 | 4713.6 | 5031.0 | 5615.5 | 6144.5 | 6603.6 | 7817.0 | 8191.6 | 8125.0 | 7724.0 |
| 60° | 4121.4 | 4153.8 | 4457.6 | 4974.7 | 5635.1 | 6374.9 | 7083.1 | 8485.9 | 8800.8 | 8720.6 | 8075.5 |
| 62.5° | 3839.8 | 3841.5 | 4170.0 | 4733.2 | 5542.1 | 6532.8 | 7665.9 | 9351.2 | 9588.4 | 9447.6 | 8465.5 |
| 65° | 3468.6 | 3465.2 | 3762.1 | 4344.9 | 5279.3 | 6484.1 | 8120.7 | 10407.5 | 10721.6 | 10322.2 | 8838.3 |
| 67.5° | 2966.9 | 2956.6 | 3257.0 | 3797.1 | 4791.2 | 6234.1 | 8506.4 | 11126.0 | 11288.1 | 10960.5 | 9136.1 |
| 70° | 2345.7 | 2334.6 | 2588.9 | 3124.7 | 4111.1 | 5663.3 | 8749.6 | 11433.2 | 11528.8 | 11186.6 | 9230.0 |
| 72.5° | 1645.1 | 1638.3 | 1790.2 | 2214.3 | 3145.2 | 4764.8 | 8697.6 | 11279.6 | 11340.2 | 10950.2 | 8954.4 |
| 75° | 973.6 | 971.0 | 1112.7 | 1355.0 | 1859.3 | 3550.5 | 8109.6 | 10716.4 | 10789.0 | 10434.9 | 8277.7 |
| 77.5° | 375.4 | 348.1 | 543.5 | 659.6 | 1057.2 | 1663.1 | 6203.4 | 9705.3 | 9873.4 | 9540.6 | 7293.0 |
| 80° | 122.9 | 127.1 | 381.4 | 465.9 | 613.5 | 744.9 | 3319.3 | 7876.7 | 8275.2 | 8061.9 | 5524.2 |
| 82.5° | 89.6 | 92.2 | 237.2 | 314.9 | 406.2 | 505.1 | 1256.0 | 4281.8 | 4701.6 | 4629.1 | 2711.7 |
| 85° | 58.9 | 58.9 | 81.1 | 111.8 | 151.9 | 202.2 | 352.4 | 2173.3 | 2664.0 | 2584.6 | 1175.0 |
| 87.5° | 31.6 | 32.4 | 46.9 | 67.4 | 91.3 | 106.7 | 112.6 | 444.6 | 606.7 | 528.2 | 234.7 |
| 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° | 1695.5 | 1695.5 | 1695.5 | 1695.5 | 1695.5 | 1695.5 | 1695.5 | 1695.5 | 1695.5 | 1695.5 | 1695.5 |
| 2.5° | 1681.0 | 1698.0 | 1685.2 | 1675.0 | 1657.9 | 1648.6 | 1651.1 | 1642.6 | 1634.9 | 1654.5 | 1645.1 |
| 5° | 1727.9 | 1739.0 | 1705.7 | 1686.1 | 1658.8 | 1635.8 | 1634.0 | 1615.3 | 1605.9 | 1613.6 | 1617.0 |
| 7.5° | 1768.0 | 1776.5 | 1732.2 | 1697.2 | 1669.9 | 1642.6 | 1623.8 | 1591.4 | 1578.6 | 1592.2 | 1597.4 |
| 10° | 1837.1 | 1826.9 | 1773.1 | 1733.9 | 1693.8 | 1660.5 | 1628.9 | 1598.2 | 1575.2 | 1576.0 | 1577.7 |
| 12.5° | 1915.6 | 1887.5 | 1839.7 | 1784.2 | 1740.7 | 1707.4 | 1663.9 | 1611.9 | 1575.2 | 1574.3 | 1580.3 |
| 15° | 2024.9 | 1990.7 | 1948.9 | 1883.2 | 1834.6 | 1786.8 | 1716.8 | 1626.4 | 1568.3 | 1547.9 | 1539.3 |
| 17.5° | 2161.4 | 2116.2 | 2101.6 | 2025.7 | 1945.5 | 1854.2 | 1742.4 | 1632.3 | 1529.9 | 1491.5 | 1493.3 |
| 20° | 2325.2 | 2310.7 | 2291.9 | 2167.3 | 2052.2 | 1898.6 | 1754.4 | 1605.0 | 1467.7 | 1400.2 | 1393.4 |
| 22.5° | 2555.6 | 2548.8 | 2460.0 | 2289.4 | 2112.7 | 1927.6 | 1744.1 | 1547.0 | 1381.5 | 1297.8 | 1280.8 |
| 25° | 2821.8 | 2766.4 | 2601.7 | 2392.6 | 2160.5 | 1935.3 | 1703.2 | 1462.5 | 1279.9 | 1175.8 | 1170.7 |
| 27.5° | 3086.3 | 2988.2 | 2745.9 | 2457.5 | 2164.8 | 1905.4 | 1617.0 | 1347.3 | 1179.2 | 1082.0 | 1069.2 |
| 30° | 3394.4 | 3262.1 | 2891.8 | 2504.4 | 2155.4 | 1830.3 | 1496.7 | 1250.9 | 1112.7 | 1016.3 | 1001.8 |
| 32.5° | 3783.5 | 3559.1 | 3036.0 | 2525.7 | 2092.3 | 1729.6 | 1368.7 | 1209.1 | 1064.0 | 953.1 | 936.1 |
| 35° | 4249.4 | 3950.7 | 3231.4 | 2524.9 | 2009.5 | 1573.5 | 1303.8 | 1185.2 | 1029.9 | 893.4 | 867.8 |
| 37.5° | 4695.6 | 4389.3 | 3452.4 | 2514.6 | 1877.2 | 1410.5 | 1258.6 | 1146.8 | 1006.9 | 881.4 | 866.9 |
| 40° | 5106.9 | 4749.4 | 3720.3 | 2495.9 | 1721.9 | 1311.5 | 1208.3 | 1087.1 | 979.6 | 892.5 | 876.3 |
| 42.5° | 5490.1 | 5089.0 | 3960.1 | 2448.9 | 1551.3 | 1241.5 | 1140.0 | 1047.0 | 950.6 | 840.5 | 815.7 |
| 45° | 5836.5 | 5375.7 | 4125.6 | 2338.0 | 1364.4 | 1163.9 | 1063.2 | 993.2 | 897.7 | 785.0 | 765.4 |
| 47.5° | 6125.7 | 5636.8 | 4242.5 | 2188.7 | 1213.4 | 1082.0 | 974.5 | 917.3 | 832.8 | 729.6 | 704.0 |
| 50° | 6379.2 | 5895.4 | 4321.9 | 1934.4 | 1081.1 | 998.3 | 886.6 | 824.3 | 748.3 | 675.0 | 657.0 |
| 52.5° | 6626.6 | 6157.3 | 4414.1 | 1594.8 | 956.5 | 901.1 | 785.9 | 716.8 | 659.6 | 625.5 | 613.5 |
| 55° | 6953.4 | 6491.0 | 4414.1 | 1169.0 | 842.2 | 823.4 | 698.8 | 607.5 | 567.4 | 543.5 | 549.5 |
| 57.5° | 7248.7 | 6695.7 | 4228.0 | 870.4 | 769.7 | 743.2 | 604.1 | 514.5 | 471.9 | 477.8 | 495.8 |
| 60° | 7575.5 | 6891.1 | 3709.2 | 720.2 | 708.2 | 633.1 | 515.4 | 452.2 | 430.1 | 408.7 | 406.2 |
| 62.5° | 7799.9 | 6919.3 | 3042.8 | 635.7 | 646.8 | 558.9 | 482.1 | 416.4 | 391.7 | 360.9 | 354.1 |
| 65° | 8050.8 | 6768.3 | 2289.4 | 596.4 | 592.2 | 530.7 | 475.3 | 411.3 | 377.2 | 326.8 | 318.3 |
| 67.5° | 7958.6 | 6322.0 | 1625.5 | 552.1 | 553.8 | 534.2 | 486.4 | 410.4 | 369.5 | 314.9 | 308.9 |
| 70° | 7558.4 | 5599.3 | 1018.8 | 531.6 | 546.1 | 541.0 | 506.0 | 431.8 | 366.9 | 285.9 | 277.3 |
| 72.5° | 6994.4 | 4669.2 | 570.0 | 493.2 | 541.8 | 545.3 | 529.9 | 451.4 | 336.2 | 233.8 | 228.7 |
| 75° | 6069.4 | 3563.3 | 407.9 | 456.5 | 521.4 | 544.4 | 519.7 | 434.3 | 308.0 | 220.1 | 213.3 |
| 77.5° | 4745.1 | 2088.8 | 359.2 | 420.7 | 483.0 | 486.4 | 515.4 | 451.4 | 320.0 | 223.6 | 215.9 |
| 80° | 2565.8 | 864.4 | 302.1 | 370.3 | 396.8 | 459.9 | 500.0 | 421.5 | 296.1 | 180.0 | 169.0 |
| 82.5° | 1041.0 | 244.0 | 175.8 | 235.5 | 321.7 | 379.7 | 445.4 | 372.9 | 271.3 | 150.2 | 141.6 |
| 85° | 266.2 | 83.6 | 81.9 | 120.3 | 192.8 | 284.1 | 361.8 | 319.1 | 221.0 | 66.6 | 4.3 |
| 87.5° | 33.3 | 27.3 | 32.4 | 66.6 | 125.4 | 203.9 | 265.4 | 230.4 | 157.0 | 0.9 | 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)