

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: P287002

Luminaire Tested: **PRV-C15-D-UNV-T2-BZ-7030-HSS**

Issue Date: 3/4/2019

Test Information

Test Method: LM-79-08
Report Number: P287002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-5)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 3/4/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-C15-D-UNV-T2-BZ-7030-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6432 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

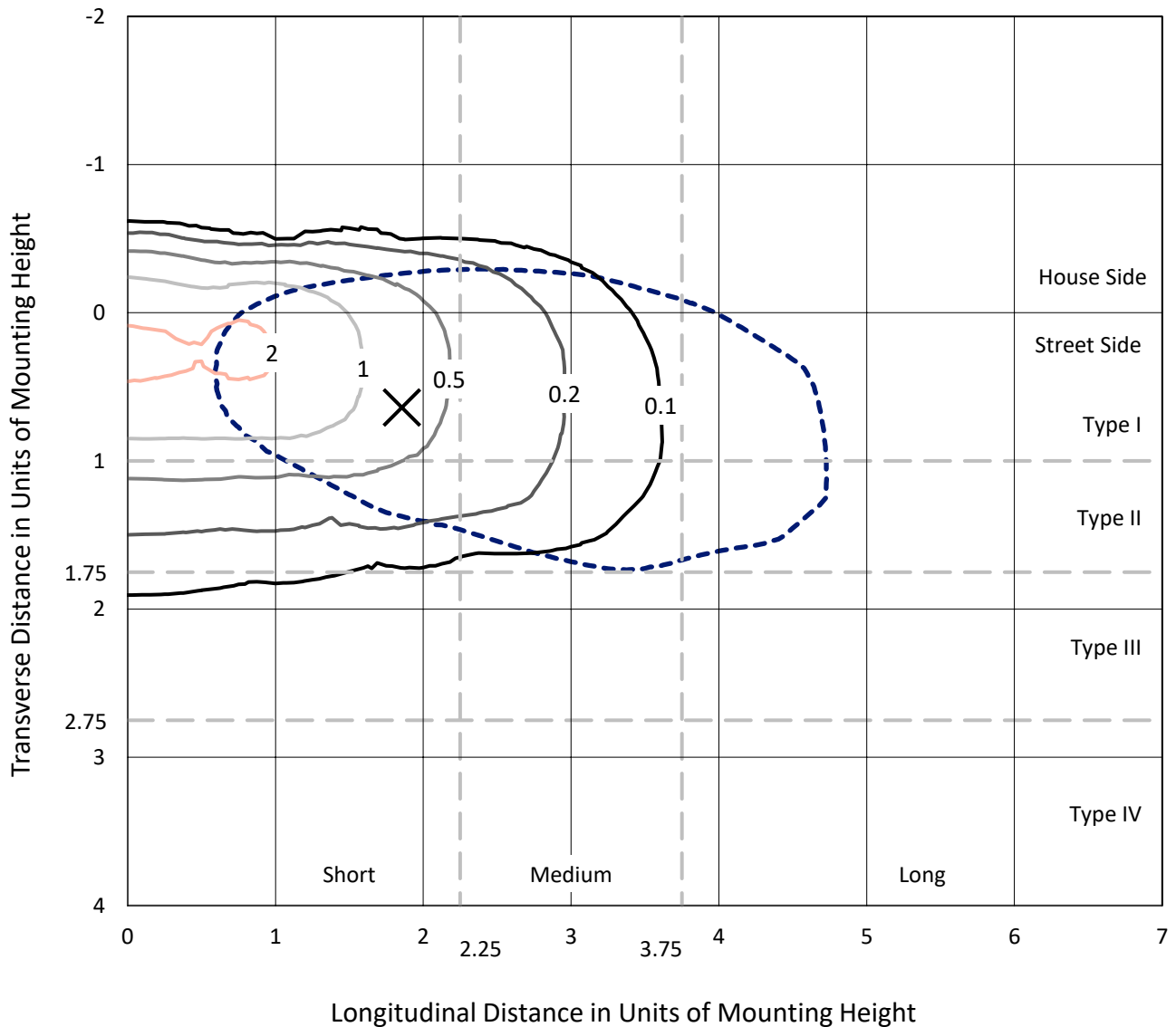
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

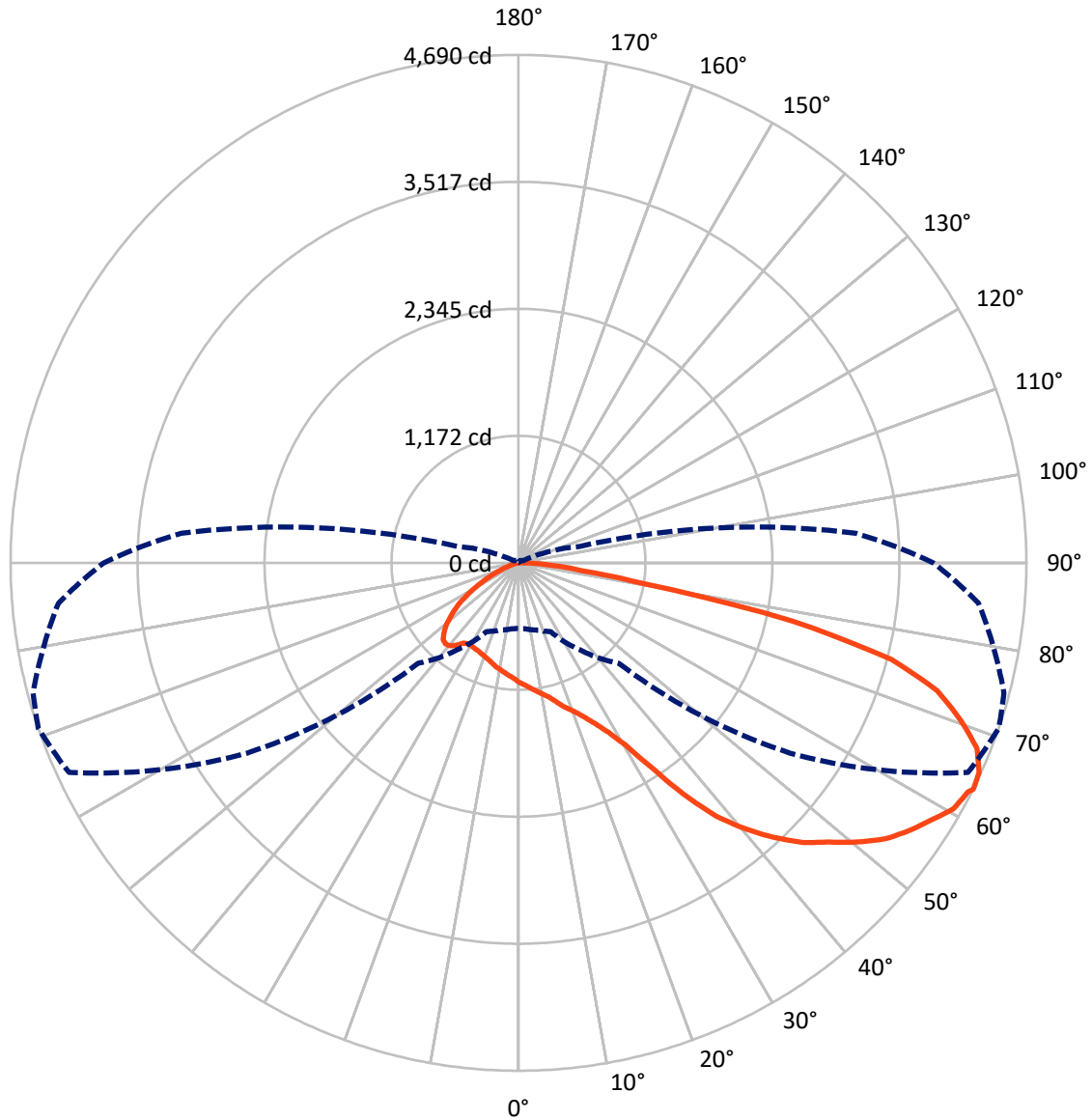
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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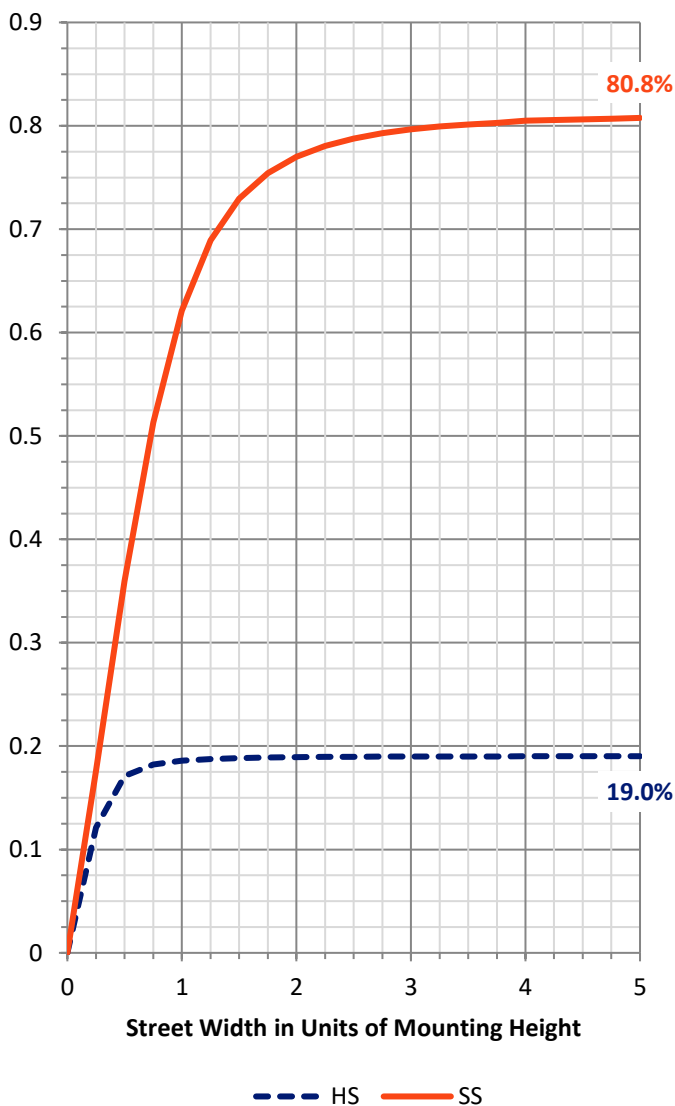
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1237.9 | 0.0 | 1237.9 |
| | % Fixture | 19.2 | 0.0 | 19.2 |
| Street Side | Lumens | 5194.1 | 0.0 | 5194.1 |
| | % Fixture | 80.8 | 0.0 | 80.8 |
| Total | Lumens | 6432.0 | 0.0 | 6432.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 105.3 | 1.6 |
| 10°-20° | 316.2 | 4.9 |
| 20°-30° | 531.8 | 8.3 |
| 30°-40° | 812.7 | 12.6 |
| 40°-50° | 1132.1 | 17.6 |
| 50°-60° | 1311.2 | 20.4 |
| 60°-70° | 1298.5 | 20.2 |
| 70°-80° | 805.0 | 12.5 |
| 80°-90° | 119.2 | 1.9 |
| 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° | 6432.0 | 100.0 |
| 0°-180° | 6432.0 | 100.0 |

Coefficient of Utilization



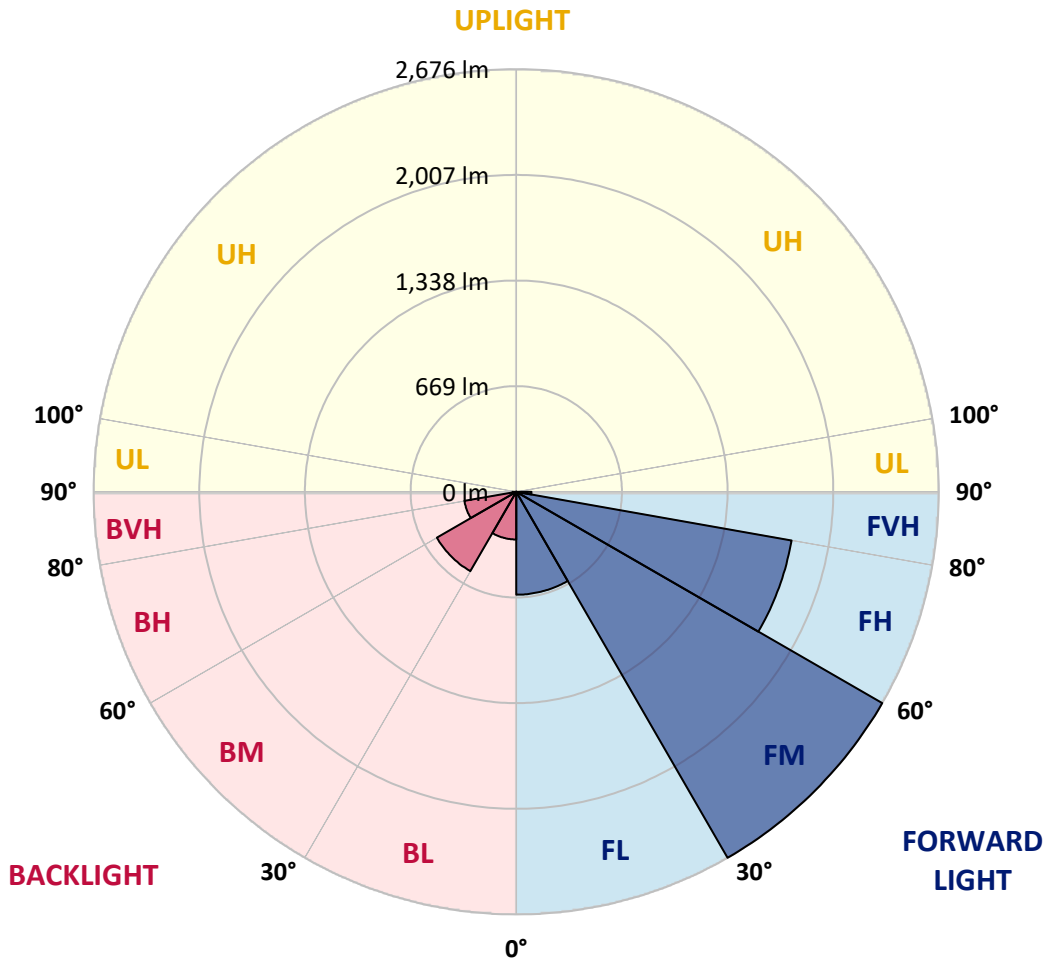
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 651.3 | 10.1 | | | |
| FM (30°-60°) | 2675.8 | 41.6 | | | |
| FH (60°-80°) | 1770.4 | 27.5 | | | G1/1800 |
| FVH (80°-90°) | 96.5 | 1.5 | | | G1/100 |
| BL (0°-30°) | 301.9 | 4.7 | B1/500 | | |
| BM (30°-60°) | 580.3 | 9.0 | B1/1000 | | |
| BH (60°-80°) | 333.1 | 5.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 22.6 | 0.4 | | | G1/100 |
| 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 71° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1105.5 | 1105.5 | 1105.5 | 1105.5 | 1105.5 | 1105.5 | 1105.5 | 1105.5 | 1105.5 | 1105.5 | 1105.5 |
| 2.5° | 1217.4 | 1205.8 | 1205.5 | 1190.8 | 1179.9 | 1173.8 | 1157.0 | 1142.4 | 1129.7 | 1128.4 | 1105.8 |
| 5° | 1283.7 | 1280.9 | 1277.2 | 1254.3 | 1244.1 | 1230.4 | 1212.0 | 1183.7 | 1160.8 | 1155.0 | 1119.1 |
| 7.5° | 1358.4 | 1356.4 | 1348.8 | 1328.4 | 1302.4 | 1286.4 | 1250.5 | 1222.2 | 1198.0 | 1185.7 | 1137.2 |
| 10° | 1401.4 | 1401.1 | 1400.4 | 1383.3 | 1363.2 | 1339.6 | 1301.4 | 1259.8 | 1231.8 | 1218.8 | 1148.8 |
| 12.5° | 1469.7 | 1460.5 | 1457.4 | 1436.6 | 1411.0 | 1393.9 | 1358.7 | 1314.0 | 1276.1 | 1253.3 | 1175.1 |
| 15° | 1524.6 | 1525.0 | 1519.2 | 1500.4 | 1481.3 | 1454.0 | 1424.3 | 1379.6 | 1337.9 | 1320.5 | 1220.2 |
| 17.5° | 1592.9 | 1586.7 | 1579.9 | 1560.1 | 1540.0 | 1511.3 | 1492.9 | 1438.6 | 1404.5 | 1366.3 | 1259.8 |
| 20° | 1636.2 | 1625.6 | 1618.1 | 1605.5 | 1597.3 | 1574.4 | 1557.7 | 1509.6 | 1462.8 | 1430.1 | 1304.1 |
| 22.5° | 1666.3 | 1677.2 | 1674.1 | 1653.6 | 1656.7 | 1649.9 | 1628.7 | 1596.3 | 1543.7 | 1489.8 | 1355.3 |
| 25° | 1684.7 | 1682.3 | 1700.1 | 1713.4 | 1736.6 | 1735.2 | 1719.5 | 1691.2 | 1644.4 | 1586.4 | 1431.8 |
| 27.5° | 1690.2 | 1690.2 | 1718.8 | 1756.4 | 1811.0 | 1822.9 | 1825.0 | 1823.3 | 1771.4 | 1718.8 | 1532.1 |
| 30° | 1698.3 | 1707.6 | 1735.2 | 1782.0 | 1861.1 | 1908.6 | 1931.1 | 1969.0 | 1956.0 | 1910.3 | 1696.0 |
| 32.5° | 1665.9 | 1666.9 | 1707.2 | 1797.3 | 1912.7 | 2011.3 | 2055.7 | 2189.8 | 2246.8 | 2268.0 | 2028.0 |
| 35° | 1561.5 | 1572.1 | 1645.4 | 1769.7 | 1936.6 | 2099.7 | 2220.2 | 2497.3 | 2622.9 | 2625.7 | 2345.8 |
| 37.5° | 1489.1 | 1499.4 | 1578.2 | 1729.7 | 1955.3 | 2188.8 | 2408.3 | 2842.7 | 2969.7 | 2938.3 | 2619.9 |
| 40° | 1409.9 | 1427.0 | 1510.6 | 1675.8 | 1952.6 | 2276.2 | 2609.3 | 3148.6 | 3233.2 | 3191.9 | 2844.1 |
| 42.5° | 1332.8 | 1335.5 | 1417.8 | 1601.1 | 1938.6 | 2347.2 | 2805.9 | 3374.5 | 3468.0 | 3414.8 | 3063.9 |
| 45° | 1239.3 | 1251.6 | 1332.8 | 1501.8 | 1892.2 | 2390.9 | 2978.9 | 3622.3 | 3684.4 | 3625.0 | 3247.5 |
| 47.5° | 1131.4 | 1147.1 | 1251.6 | 1409.9 | 1789.1 | 2397.3 | 3134.6 | 3845.2 | 3851.3 | 3804.2 | 3440.7 |
| 50° | 873.7 | 883.6 | 1098.3 | 1319.5 | 1665.9 | 2371.4 | 3283.0 | 4012.1 | 4052.0 | 3990.6 | 3605.6 |
| 52.5° | 791.1 | 799.3 | 859.4 | 1201.7 | 1501.1 | 2284.7 | 3386.8 | 4203.9 | 4236.3 | 4182.4 | 3766.7 |
| 55° | 758.4 | 762.1 | 783.3 | 974.1 | 1362.8 | 2130.8 | 3452.3 | 4347.2 | 4370.4 | 4303.5 | 3900.1 |
| 57.5° | 701.0 | 704.5 | 749.5 | 830.7 | 1246.8 | 1876.2 | 3444.1 | 4488.5 | 4486.8 | 4412.1 | 4038.3 |
| 60° | 657.7 | 664.9 | 703.1 | 763.8 | 1106.9 | 1569.7 | 3331.8 | 4596.7 | 4613.4 | 4544.8 | 4139.0 |
| 62.5° | 616.7 | 619.5 | 651.9 | 710.6 | 993.2 | 1346.1 | 3120.6 | 4586.8 | 4657.5 | 4606.6 | 4265.7 |
| 63° | 605.1 | 610.3 | 642.3 | 699.3 | 976.8 | 1311.0 | 3063.6 | 4579.0 | 4689.6 | 4639.7 | 4262.6 |
| 65° | 569.3 | 570.0 | 601.4 | 655.3 | 898.7 | 1201.4 | 2874.1 | 4475.2 | 4672.8 | 4642.8 | 4315.5 |
| 67.5° | 501.0 | 506.2 | 534.1 | 586.7 | 768.3 | 1062.1 | 2384.7 | 4406.3 | 4564.3 | 4580.0 | 4229.1 |
| 70° | 425.3 | 428.3 | 462.8 | 514.3 | 645.8 | 901.1 | 1783.7 | 4166.0 | 4324.0 | 4343.5 | 4002.2 |
| 72.5° | 333.5 | 335.2 | 372.7 | 432.8 | 528.3 | 744.0 | 1230.8 | 3747.2 | 4043.8 | 4043.8 | 3614.1 |
| 75° | 104.8 | 123.9 | 261.1 | 348.8 | 427.0 | 575.8 | 808.6 | 2907.3 | 3554.4 | 3642.8 | 3094.3 |
| 77.5° | 34.1 | 36.9 | 82.6 | 184.0 | 268.9 | 442.0 | 536.9 | 1545.4 | 2582.0 | 2825.0 | 2440.7 |
| 80° | 24.6 | 28.7 | 51.2 | 137.9 | 169.3 | 188.1 | 332.8 | 842.3 | 1173.4 | 1537.9 | 1630.1 |
| 82.5° | 12.6 | 16.4 | 36.2 | 87.7 | 96.2 | 94.9 | 147.8 | 398.3 | 586.0 | 707.9 | 845.8 |
| 85° | 5.8 | 7.2 | 15.7 | 30.7 | 26.6 | 24.9 | 52.2 | 208.5 | 330.4 | 390.5 | 421.9 |
| 87.5° | 1.4 | 2.0 | 5.8 | 10.9 | 6.8 | 5.5 | 6.1 | 66.2 | 120.5 | 150.2 | 155.3 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1105.5 | 1105.5 | 1105.5 | 1105.5 | 1105.5 | 1105.5 | 1105.5 | 1105.5 | 1105.5 | 1105.5 | 1105.5 |
| 2.5° | 1096.3 | 1101.7 | 1075.8 | 1063.2 | 1041.7 | 1034.8 | 1024.3 | 1011.6 | 1007.5 | 1017.8 | 1011.0 |
| 5° | 1105.8 | 1098.3 | 1060.8 | 1026.7 | 998.0 | 975.5 | 958.4 | 936.9 | 923.9 | 927.0 | 929.0 |
| 7.5° | 1109.6 | 1092.9 | 1039.6 | 997.6 | 949.2 | 920.2 | 889.1 | 858.7 | 845.8 | 847.8 | 849.2 |
| 10° | 1113.3 | 1088.1 | 1025.3 | 963.5 | 905.8 | 861.1 | 825.6 | 785.3 | 765.9 | 766.6 | 773.1 |
| 12.5° | 1135.5 | 1086.4 | 1013.3 | 938.6 | 863.8 | 808.2 | 764.9 | 720.2 | 692.5 | 694.6 | 699.7 |
| 15° | 1166.9 | 1101.1 | 998.0 | 901.7 | 823.2 | 760.1 | 706.2 | 656.7 | 635.5 | 638.6 | 643.4 |
| 17.5° | 1193.9 | 1117.4 | 986.0 | 862.8 | 774.1 | 706.2 | 657.4 | 615.0 | 576.5 | 582.3 | 578.9 |
| 20° | 1221.2 | 1140.6 | 982.3 | 830.1 | 731.8 | 653.6 | 598.3 | 564.2 | 516.4 | 503.4 | 499.3 |
| 22.5° | 1264.9 | 1166.6 | 978.9 | 800.0 | 681.6 | 607.5 | 538.6 | 488.4 | 419.8 | 396.3 | 387.0 |
| 25° | 1322.2 | 1203.8 | 973.7 | 773.1 | 640.0 | 552.6 | 459.1 | 369.0 | 318.1 | 288.1 | 274.1 |
| 27.5° | 1399.7 | 1257.0 | 981.3 | 749.2 | 598.0 | 487.4 | 348.5 | 267.9 | 222.5 | 196.6 | 181.9 |
| 30° | 1529.4 | 1326.7 | 983.0 | 727.7 | 546.8 | 388.7 | 248.1 | 186.4 | 147.8 | 130.0 | 121.2 |
| 32.5° | 1814.4 | 1537.9 | 998.3 | 703.1 | 491.8 | 286.0 | 172.7 | 124.9 | 94.2 | 82.9 | 88.1 |
| 35° | 2114.1 | 1797.3 | 1053.6 | 668.3 | 405.8 | 193.5 | 114.0 | 80.9 | 60.4 | 62.1 | 63.8 |
| 37.5° | 2341.4 | 1998.7 | 1169.7 | 625.6 | 305.1 | 132.4 | 68.6 | 55.3 | 53.2 | 58.0 | 66.9 |
| 40° | 2564.9 | 2199.0 | 1273.1 | 574.1 | 206.8 | 79.5 | 46.4 | 50.9 | 47.8 | 49.8 | 50.5 |
| 42.5° | 2760.8 | 2358.8 | 1347.1 | 498.0 | 128.0 | 46.8 | 40.6 | 47.1 | 43.7 | 42.7 | 37.5 |
| 45° | 2950.3 | 2497.0 | 1392.9 | 392.8 | 73.4 | 37.2 | 37.2 | 45.1 | 42.3 | 39.9 | 34.1 |
| 47.5° | 3117.8 | 2651.6 | 1381.6 | 271.3 | 44.7 | 33.4 | 34.8 | 40.6 | 39.6 | 36.5 | 33.4 |
| 50° | 3272.1 | 2763.6 | 1352.3 | 153.9 | 39.3 | 31.7 | 33.8 | 33.8 | 35.5 | 27.6 | 25.3 |
| 52.5° | 3406.6 | 2862.9 | 1257.7 | 82.3 | 36.5 | 30.4 | 30.4 | 27.0 | 28.7 | 21.2 | 20.1 |
| 55° | 3544.8 | 2967.0 | 1124.6 | 64.5 | 34.8 | 30.4 | 27.0 | 23.6 | 21.5 | 15.4 | 16.4 |
| 57.5° | 3658.5 | 3043.8 | 952.2 | 58.0 | 35.8 | 29.0 | 24.6 | 20.5 | 17.1 | 11.9 | 11.6 |
| 60° | 3763.6 | 3107.3 | 785.0 | 51.5 | 38.6 | 29.4 | 20.5 | 17.1 | 11.9 | 9.6 | 8.5 |
| 62.5° | 3827.1 | 3121.6 | 608.9 | 46.8 | 38.6 | 27.0 | 18.4 | 14.3 | 9.2 | 6.5 | 6.1 |
| 63° | 3829.1 | 3126.0 | 581.2 | 46.4 | 39.3 | 27.0 | 18.4 | 14.0 | 8.5 | 6.1 | 5.8 |
| 65° | 3859.2 | 3033.5 | 458.7 | 45.4 | 39.9 | 25.6 | 17.4 | 11.3 | 7.2 | 4.8 | 4.4 |
| 67.5° | 3744.5 | 2855.4 | 301.7 | 44.7 | 39.9 | 24.9 | 15.4 | 9.6 | 6.1 | 3.8 | 3.1 |
| 70° | 3441.4 | 2550.6 | 184.6 | 43.0 | 40.6 | 24.6 | 19.1 | 8.2 | 5.5 | 2.7 | 2.4 |
| 72.5° | 3023.6 | 2253.0 | 106.1 | 38.2 | 39.9 | 20.1 | 10.9 | 7.2 | 4.8 | 2.0 | 1.7 |
| 75° | 2559.5 | 1811.0 | 66.9 | 29.7 | 31.1 | 16.7 | 9.2 | 6.5 | 4.1 | 1.0 | 1.0 |
| 77.5° | 1944.8 | 1303.1 | 57.3 | 22.9 | 18.4 | 14.7 | 7.9 | 5.1 | 2.7 | 0.3 | 0.3 |
| 80° | 1373.4 | 920.8 | 41.3 | 14.3 | 10.2 | 9.2 | 5.8 | 3.4 | 1.0 | 0.0 | 0.0 |
| 82.5° | 773.1 | 503.1 | 22.5 | 5.1 | 3.1 | 3.4 | 2.7 | 1.4 | 0.0 | 0.0 | 0.0 |
| 85° | 364.5 | 196.6 | 11.3 | 3.4 | 1.7 | 1.4 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 135.5 | 47.4 | 2.7 | 1.4 | 1.0 | 0.3 | 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)