

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: P511012

Luminaire Tested: **PRV-P-C20-D-UNV-T4**

Issue Date: 4/7/2021

Test Information

Test Method: LM-79-08
Report Number: P511012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-170-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/7/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-P-C20-D-UNV-T4
Description: PREVAIL AREA AND WALL LUMINAIRE
(1) 70 CRI, 4000K, 1300mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9752 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Rectangular (W 1.04' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

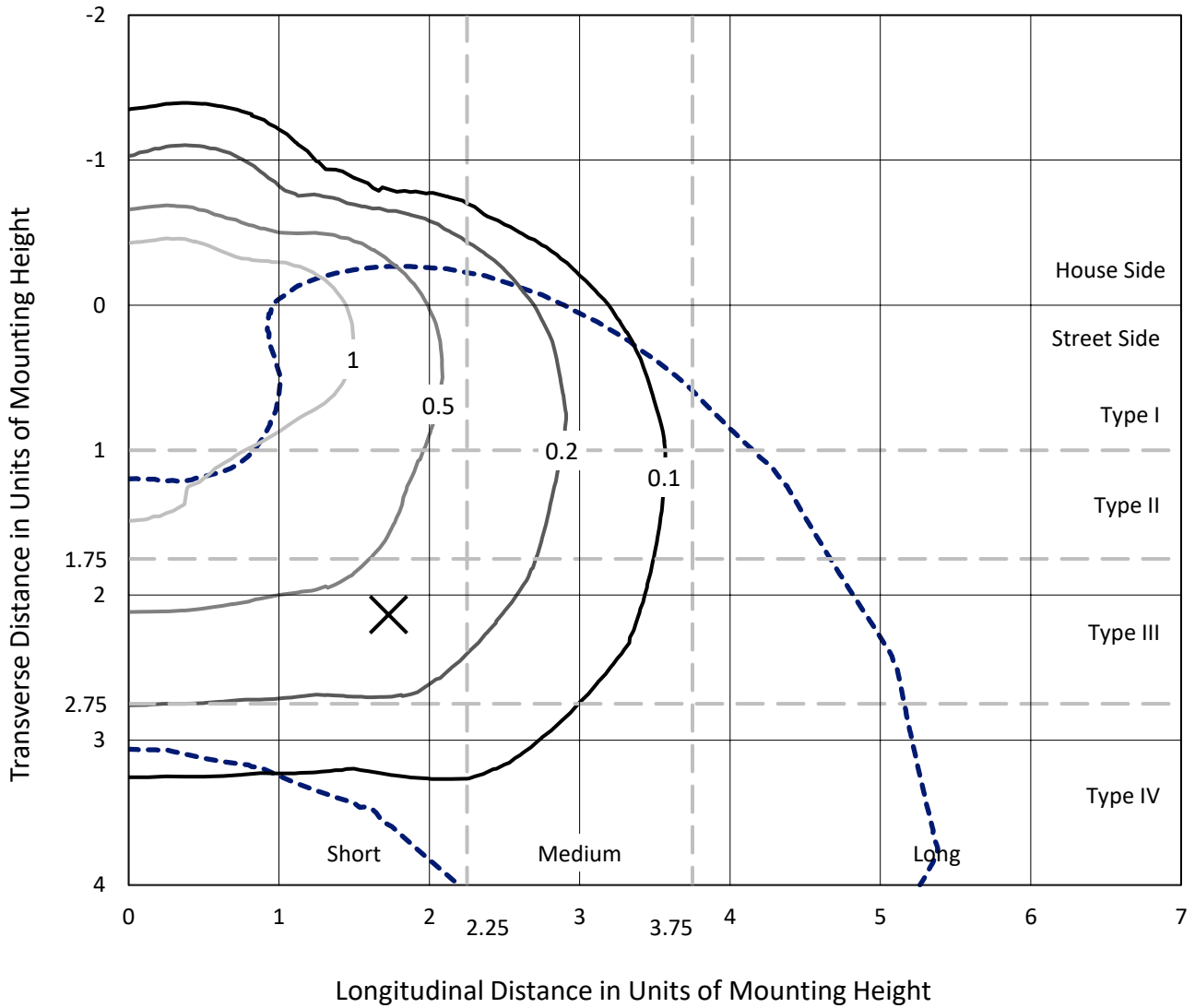
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

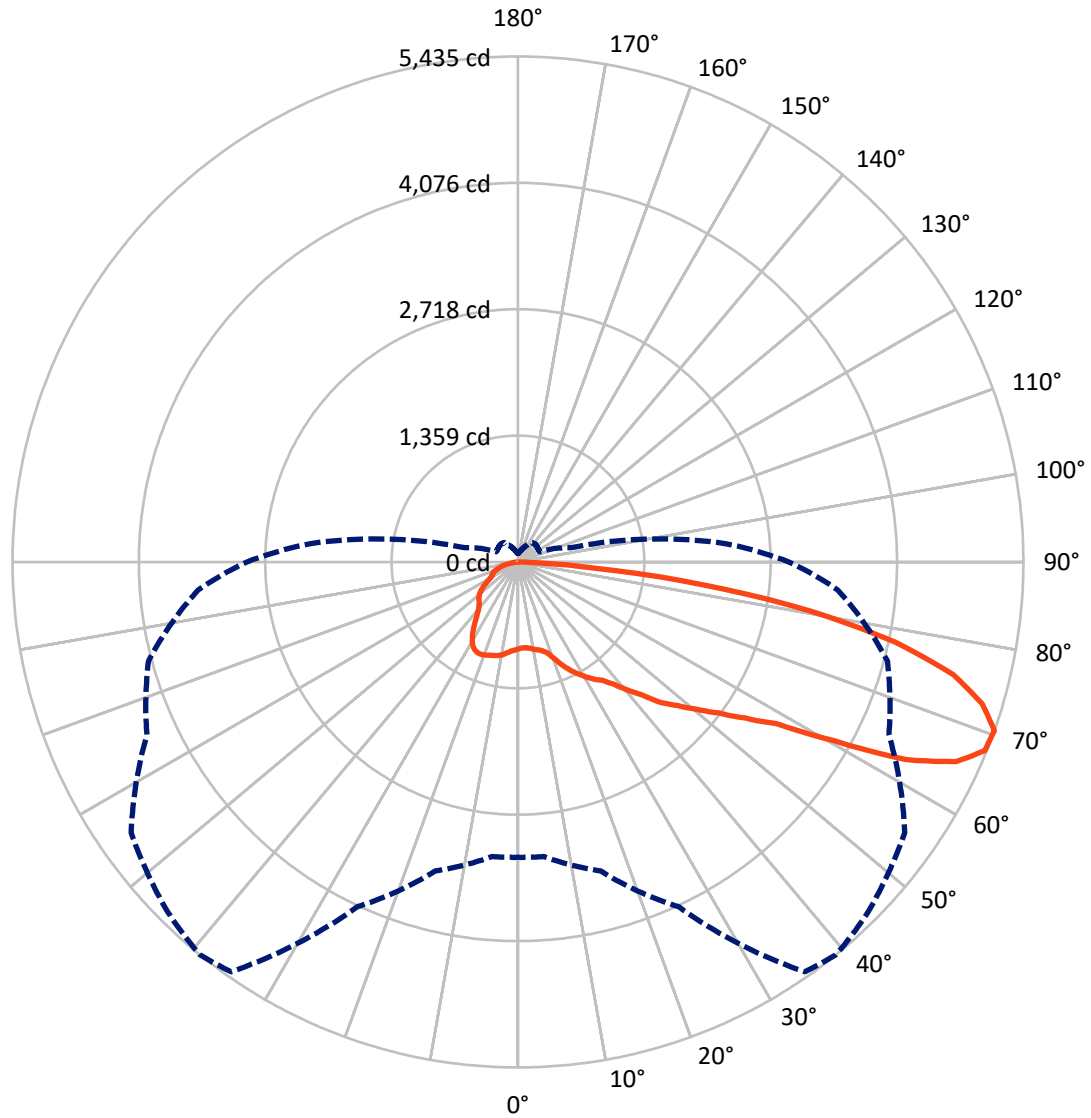
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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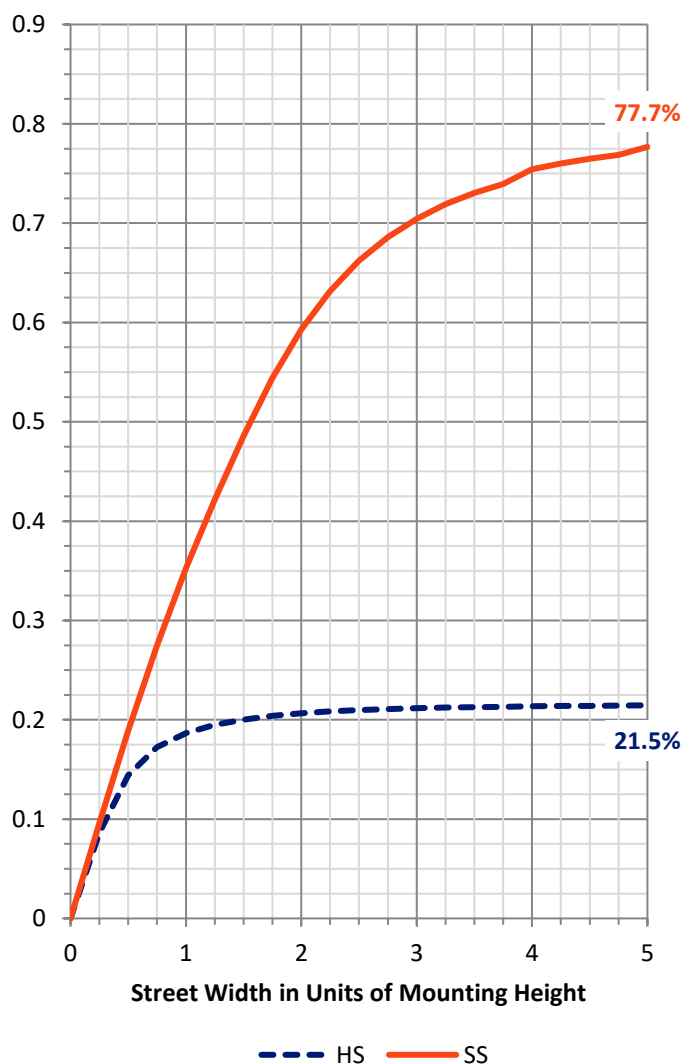
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2109.2 | 0.0 | 2109.2 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 7642.8 | 0.0 | 7642.8 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 9752.0 | 0.0 | 9752.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 91.2 | 0.9 |
| 10°-20° | 292.1 | 3.0 |
| 20°-30° | 554.2 | 5.7 |
| 30°-40° | 866.7 | 8.9 |
| 40°-50° | 1316.1 | 13.5 |
| 50°-60° | 1927.4 | 19.8 |
| 60°-70° | 2480.1 | 25.4 |
| 70°-80° | 1885.3 | 19.3 |
| 80°-90° | 338.9 | 3.5 |
| 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° | 9752.0 | 100.0 |
| 0°-180° | 9752.0 | 100.0 |

Coefficient of Utilization



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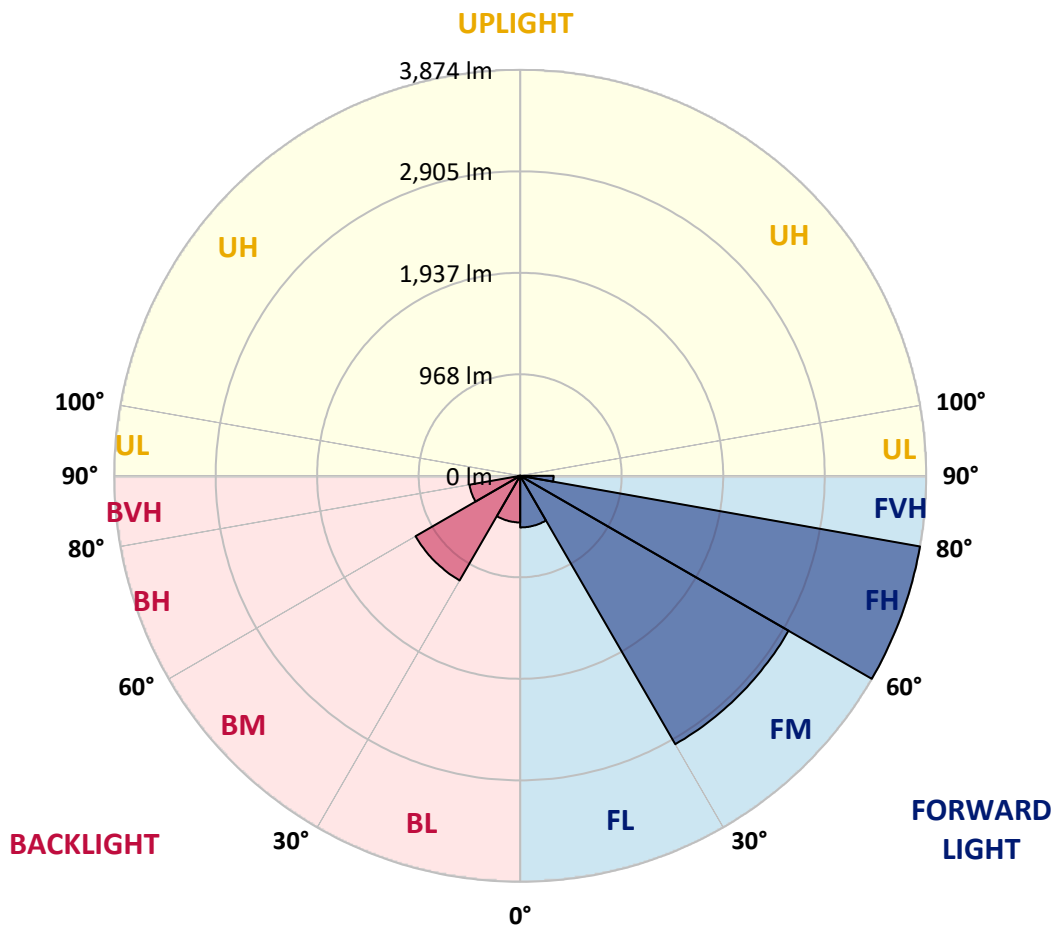
CATALOG NUMBER: PRV-P-C20-D-UNV-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 492.8 | 5.1 | | | |
| FM (30°-60°) | 2957.1 | 30.3 | | | |
| FH (60°-80°) | 3874.0 | 39.7 | | | G2/5000 |
| FVH (80°-90°) | 318.9 | 3.3 | | | G3/500 |
| BL (0°-30°) | 444.7 | 4.6 | B1/500 | | |
| BM (30°-60°) | 1153.1 | 11.8 | B2/2500 | | |
| BH (60°-80°) | 491.4 | 5.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 20.0 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 |
| 2.5° | 923.2 | 921.2 | 921.2 | 923.2 | 923.2 | 925.2 | 925.2 | 927.2 | 929.2 | 935.2 | 937.2 |
| 5° | 919.2 | 921.2 | 921.2 | 923.2 | 925.2 | 925.2 | 925.2 | 927.2 | 927.2 | 933.2 | 935.2 |
| 7.5° | 923.2 | 925.2 | 929.2 | 933.2 | 935.2 | 937.2 | 939.2 | 941.2 | 941.2 | 943.2 | 947.2 |
| 10° | 929.2 | 933.2 | 935.2 | 943.2 | 953.2 | 955.2 | 959.2 | 965.1 | 967.1 | 969.1 | 973.1 |
| 12.5° | 943.2 | 941.2 | 945.2 | 955.2 | 965.1 | 969.1 | 975.1 | 985.1 | 993.1 | 993.1 | 997.1 |
| 15° | 955.2 | 957.2 | 961.2 | 971.1 | 983.1 | 991.1 | 999.1 | 1011.1 | 1021.1 | 1027.1 | 1031.1 |
| 17.5° | 1019.1 | 1015.1 | 1021.1 | 1013.1 | 1021.1 | 1027.1 | 1037.1 | 1051.1 | 1067.1 | 1073.1 | 1081.0 |
| 20° | 1115.0 | 1119.0 | 1109.0 | 1111.0 | 1105.0 | 1103.0 | 1099.0 | 1101.0 | 1117.0 | 1135.0 | 1149.0 |
| 22.5° | 1224.9 | 1232.9 | 1228.9 | 1212.9 | 1198.9 | 1196.9 | 1188.9 | 1185.0 | 1188.9 | 1210.9 | 1230.9 |
| 25° | 1322.8 | 1324.8 | 1322.8 | 1302.8 | 1286.9 | 1282.9 | 1282.9 | 1290.9 | 1292.9 | 1300.9 | 1318.8 |
| 27.5° | 1396.8 | 1396.8 | 1390.8 | 1378.8 | 1362.8 | 1356.8 | 1362.8 | 1382.8 | 1400.8 | 1412.8 | 1432.7 |
| 30° | 1454.7 | 1454.7 | 1448.7 | 1442.7 | 1436.7 | 1430.7 | 1434.7 | 1476.7 | 1518.7 | 1546.6 | 1592.6 |
| 32.5° | 1572.6 | 1564.6 | 1550.6 | 1496.7 | 1502.7 | 1502.7 | 1506.7 | 1554.6 | 1626.6 | 1696.5 | 1760.4 |
| 35° | 1690.5 | 1684.5 | 1668.5 | 1630.6 | 1564.6 | 1562.6 | 1584.6 | 1638.6 | 1730.5 | 1858.4 | 1968.3 |
| 37.5° | 1840.4 | 1834.4 | 1816.4 | 1758.4 | 1696.5 | 1664.5 | 1646.5 | 1724.5 | 1854.4 | 2060.2 | 2214.0 |
| 40° | 2014.2 | 2012.2 | 1980.3 | 1906.3 | 1826.4 | 1808.4 | 1766.4 | 1820.4 | 2004.2 | 2298.0 | 2467.8 |
| 42.5° | 2146.1 | 2146.1 | 2122.1 | 2044.2 | 1984.2 | 1954.3 | 1928.3 | 1950.3 | 2182.1 | 2571.7 | 2707.6 |
| 45° | 2238.0 | 2250.0 | 2234.0 | 2196.1 | 2160.1 | 2158.1 | 2136.1 | 2186.1 | 2411.9 | 2859.5 | 2937.4 |
| 47.5° | 2351.9 | 2355.9 | 2321.9 | 2310.0 | 2304.0 | 2306.0 | 2337.9 | 2433.9 | 2639.7 | 3117.2 | 3139.2 |
| 50° | 2675.6 | 2671.6 | 2543.8 | 2483.8 | 2451.8 | 2491.8 | 2545.8 | 2677.6 | 2911.4 | 3349.0 | 3313.1 |
| 52.5° | 3077.3 | 3019.3 | 2805.5 | 2693.6 | 2669.6 | 2697.6 | 2765.6 | 2911.4 | 3227.1 | 3552.9 | 3451.0 |
| 55° | 3494.9 | 3453.0 | 3311.1 | 3063.3 | 2925.4 | 2963.4 | 2999.4 | 3135.2 | 3520.9 | 3734.7 | 3574.8 |
| 57.5° | 3764.7 | 3768.7 | 3760.7 | 3634.8 | 3329.1 | 3283.1 | 3285.1 | 3381.0 | 3766.7 | 3930.5 | 3680.7 |
| 60° | 3986.5 | 4022.4 | 4120.4 | 4092.4 | 4036.4 | 3904.6 | 3660.8 | 3638.8 | 3994.5 | 4068.4 | 3760.7 |
| 62.5° | 4104.4 | 4122.4 | 4282.2 | 4422.1 | 4665.9 | 4681.9 | 4400.1 | 3930.5 | 4208.3 | 4164.3 | 3798.6 |
| 65° | 3994.5 | 4006.5 | 4222.3 | 4506.0 | 5091.5 | 5177.4 | 5079.5 | 4392.1 | 4370.1 | 4212.3 | 3780.7 |
| 67.5° | 3632.8 | 3652.8 | 3878.6 | 4416.1 | 5349.3 | 5413.2 | 5331.3 | 4987.6 | 4436.1 | 4192.3 | 3674.8 |
| 70° | 3175.2 | 3179.2 | 3439.0 | 4090.4 | 5379.2 | 5435.2 | 5325.3 | 5077.5 | 4402.1 | 4112.4 | 3451.0 |
| 72.5° | 2569.7 | 2595.7 | 2863.5 | 3534.9 | 5165.4 | 5219.4 | 5153.4 | 4961.6 | 4324.2 | 3948.5 | 3037.3 |
| 75° | 1974.3 | 1952.3 | 2208.0 | 2811.5 | 4625.9 | 4835.7 | 4809.8 | 4747.8 | 4118.4 | 3480.9 | 2361.9 |
| 77.5° | 1228.9 | 1262.9 | 1510.7 | 2112.1 | 3806.6 | 4148.3 | 4316.2 | 4384.1 | 3572.8 | 2677.6 | 1356.8 |
| 80° | 569.5 | 585.5 | 861.2 | 1412.8 | 2817.5 | 3187.2 | 3508.9 | 3504.9 | 2639.7 | 1592.6 | 399.6 |
| 82.5° | 179.8 | 187.8 | 345.7 | 799.3 | 1780.4 | 2004.2 | 2248.0 | 2040.2 | 917.2 | 195.8 | 63.9 |
| 85° | 75.9 | 81.9 | 141.9 | 299.7 | 687.4 | 825.3 | 957.2 | 947.2 | 99.9 | 52.0 | 36.0 |
| 87.5° | 42.0 | 44.0 | 54.0 | 79.9 | 105.9 | 111.9 | 123.9 | 109.9 | 22.0 | 22.0 | 12.0 |
| 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° | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 | 933.2 |
| 2.5° | 937.2 | 937.2 | 941.2 | 945.2 | 945.2 | 947.2 | 947.2 | 947.2 | 947.2 | 943.2 | 941.2 |
| 5° | 937.2 | 939.2 | 945.2 | 951.2 | 957.2 | 959.2 | 963.1 | 963.1 | 965.1 | 967.1 | 965.1 |
| 7.5° | 951.2 | 955.2 | 963.1 | 973.1 | 979.1 | 983.1 | 987.1 | 989.1 | 989.1 | 991.1 | 991.1 |
| 10° | 975.1 | 979.1 | 993.1 | 1003.1 | 1009.1 | 1013.1 | 1011.1 | 1011.1 | 1013.1 | 1011.1 | 1011.1 |
| 12.5° | 999.1 | 1005.1 | 1021.1 | 1035.1 | 1035.1 | 1029.1 | 1025.1 | 1021.1 | 1019.1 | 1017.1 | 1015.1 |
| 15° | 1035.1 | 1039.1 | 1061.1 | 1069.1 | 1061.1 | 1047.1 | 1033.1 | 1019.1 | 1009.1 | 1003.1 | 1003.1 |
| 17.5° | 1089.0 | 1099.0 | 1123.0 | 1115.0 | 1095.0 | 1065.1 | 1037.1 | 1007.1 | 983.1 | 969.1 | 969.1 |
| 20° | 1159.0 | 1171.0 | 1192.9 | 1175.0 | 1137.0 | 1091.0 | 1041.1 | 987.1 | 939.2 | 911.2 | 905.2 |
| 22.5° | 1242.9 | 1260.9 | 1268.9 | 1232.9 | 1177.0 | 1115.0 | 1041.1 | 967.1 | 891.2 | 827.3 | 813.3 |
| 25° | 1344.8 | 1358.8 | 1338.8 | 1276.9 | 1202.9 | 1119.0 | 1031.1 | 935.2 | 821.3 | 733.4 | 723.4 |
| 27.5° | 1458.7 | 1458.7 | 1404.8 | 1310.8 | 1208.9 | 1103.0 | 1003.1 | 875.2 | 733.4 | 669.4 | 661.4 |
| 30° | 1598.6 | 1568.6 | 1462.7 | 1330.8 | 1192.9 | 1071.1 | 947.2 | 781.3 | 667.4 | 611.5 | 605.5 |
| 32.5° | 1748.5 | 1686.5 | 1518.7 | 1336.8 | 1161.0 | 1015.1 | 861.2 | 707.4 | 619.5 | 561.5 | 553.5 |
| 35° | 1930.3 | 1832.4 | 1576.6 | 1322.8 | 1101.0 | 935.2 | 759.3 | 647.4 | 569.5 | 505.6 | 497.6 |
| 37.5° | 2158.1 | 2018.2 | 1640.6 | 1292.9 | 1025.1 | 833.3 | 679.4 | 589.5 | 521.5 | 451.6 | 439.6 |
| 40° | 2393.9 | 2232.0 | 1736.5 | 1252.9 | 937.2 | 741.3 | 615.5 | 549.5 | 485.6 | 411.6 | 395.7 |
| 42.5° | 2627.7 | 2433.9 | 1858.4 | 1216.9 | 859.2 | 679.4 | 589.5 | 543.5 | 473.6 | 395.7 | 381.7 |
| 45° | 2833.5 | 2611.7 | 1972.3 | 1175.0 | 773.3 | 623.4 | 577.5 | 537.5 | 467.6 | 387.7 | 371.7 |
| 47.5° | 2999.4 | 2775.5 | 2082.2 | 1139.0 | 693.4 | 585.5 | 565.5 | 521.5 | 451.6 | 375.7 | 359.7 |
| 50° | 3155.2 | 2909.4 | 2158.1 | 1109.0 | 621.5 | 555.5 | 539.5 | 485.6 | 415.6 | 343.7 | 333.7 |
| 52.5° | 3283.1 | 3015.3 | 2206.1 | 1121.0 | 551.5 | 523.5 | 497.6 | 437.6 | 367.7 | 313.7 | 299.7 |
| 55° | 3379.0 | 3075.3 | 2214.0 | 1101.0 | 489.6 | 473.6 | 443.6 | 391.7 | 341.7 | 295.7 | 283.7 |
| 57.5° | 3458.9 | 3103.3 | 2184.1 | 929.2 | 435.6 | 413.6 | 389.7 | 355.7 | 307.7 | 263.8 | 255.8 |
| 60° | 3484.9 | 3101.3 | 2108.1 | 659.4 | 375.7 | 341.7 | 349.7 | 323.7 | 273.8 | 231.8 | 223.8 |
| 62.5° | 3470.9 | 3053.3 | 1912.3 | 459.6 | 319.7 | 309.7 | 321.7 | 295.7 | 245.8 | 207.8 | 201.8 |
| 65° | 3397.0 | 2933.4 | 1616.6 | 319.7 | 289.7 | 295.7 | 307.7 | 279.8 | 227.8 | 191.8 | 187.8 |
| 67.5° | 3227.1 | 2701.6 | 1183.0 | 275.8 | 275.8 | 285.7 | 291.7 | 255.8 | 157.9 | 111.9 | 103.9 |
| 70° | 2915.4 | 2248.0 | 591.5 | 257.8 | 259.8 | 267.8 | 253.8 | 183.8 | 133.9 | 95.9 | 91.9 |
| 72.5° | 2377.9 | 1584.6 | 209.8 | 237.8 | 239.8 | 229.8 | 205.8 | 161.9 | 115.9 | 83.9 | 77.9 |
| 75° | 1544.6 | 775.3 | 181.8 | 221.8 | 207.8 | 193.8 | 181.8 | 135.9 | 97.9 | 59.9 | 56.0 |
| 77.5° | 673.4 | 177.8 | 169.8 | 191.8 | 177.8 | 171.8 | 129.9 | 99.9 | 65.9 | 42.0 | 40.0 |
| 80° | 113.9 | 105.9 | 159.9 | 141.9 | 141.9 | 105.9 | 79.9 | 59.9 | 40.0 | 26.0 | 24.0 |
| 82.5° | 54.0 | 75.9 | 123.9 | 91.9 | 77.9 | 52.0 | 46.0 | 42.0 | 30.0 | 20.0 | 20.0 |
| 85° | 40.0 | 59.9 | 48.0 | 42.0 | 30.0 | 30.0 | 34.0 | 24.0 | 20.0 | 10.0 | 10.0 |
| 87.5° | 12.0 | 10.0 | 10.0 | 8.0 | 10.0 | 4.0 | 4.0 | 2.0 | 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)