

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: P285759

Luminaire Tested: **PRV-XL-C175-D-UNV-T2-BZ-7050**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-5)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-C175-D-UNV-T2-BZ-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49763 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

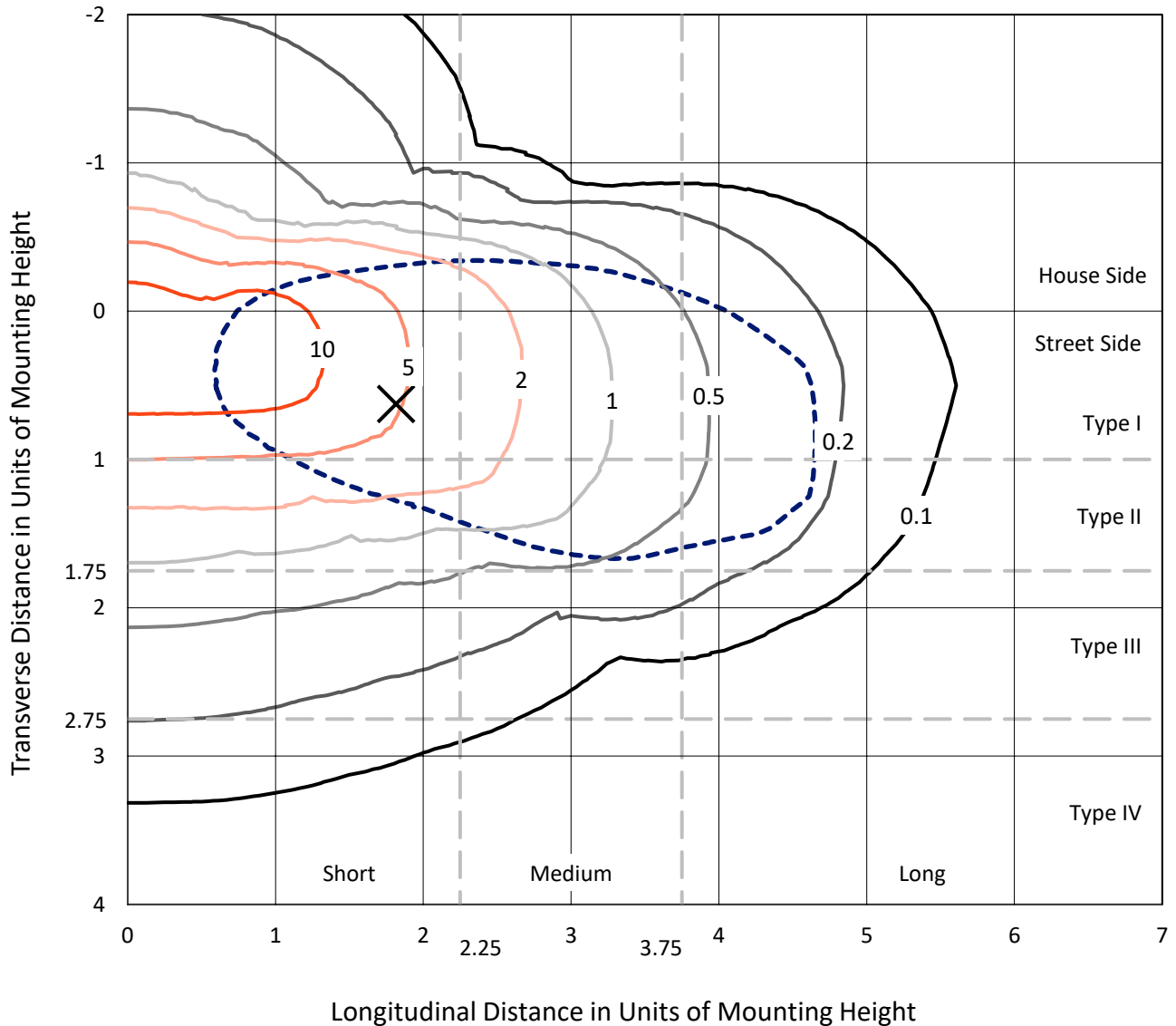
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

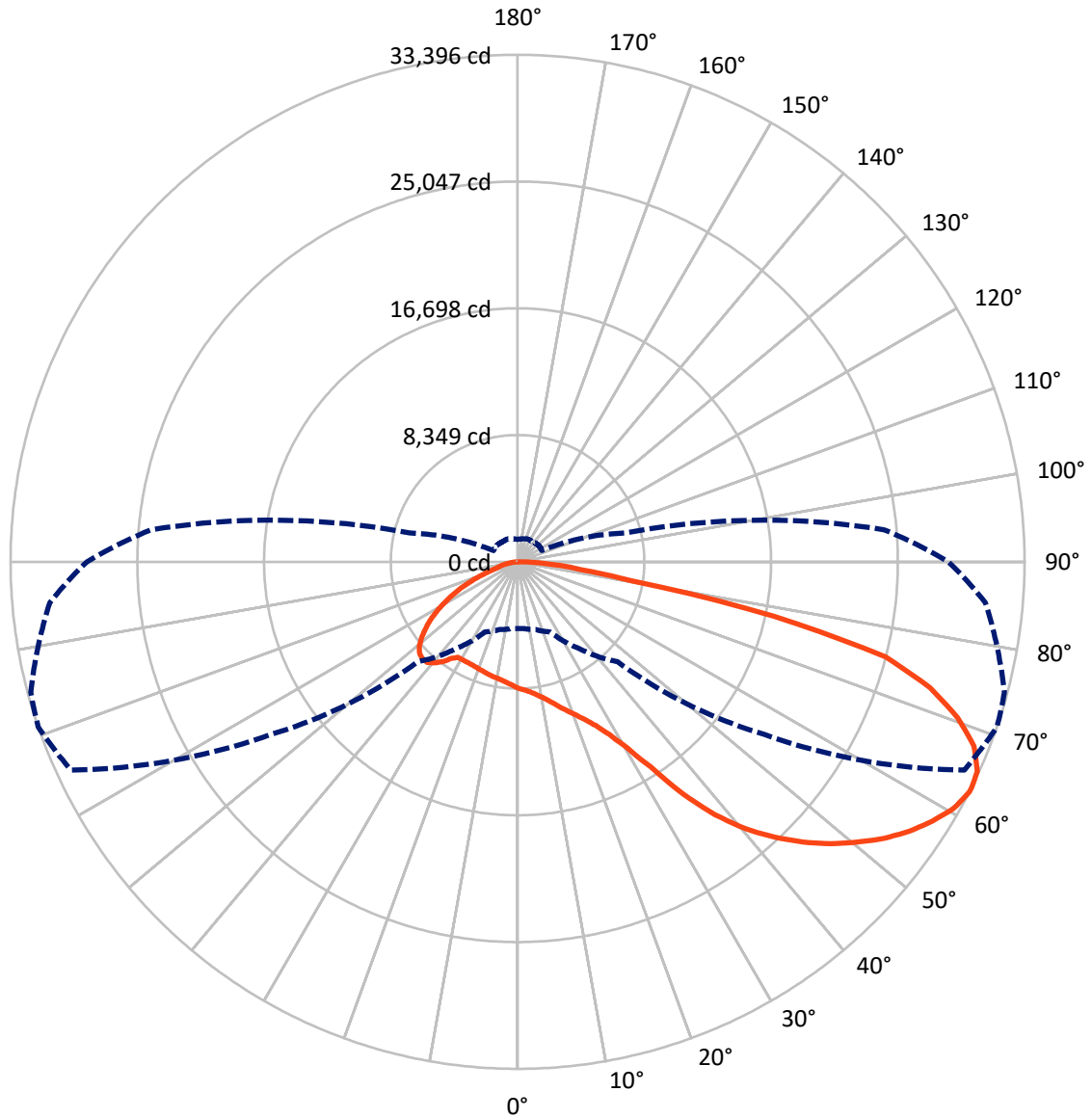
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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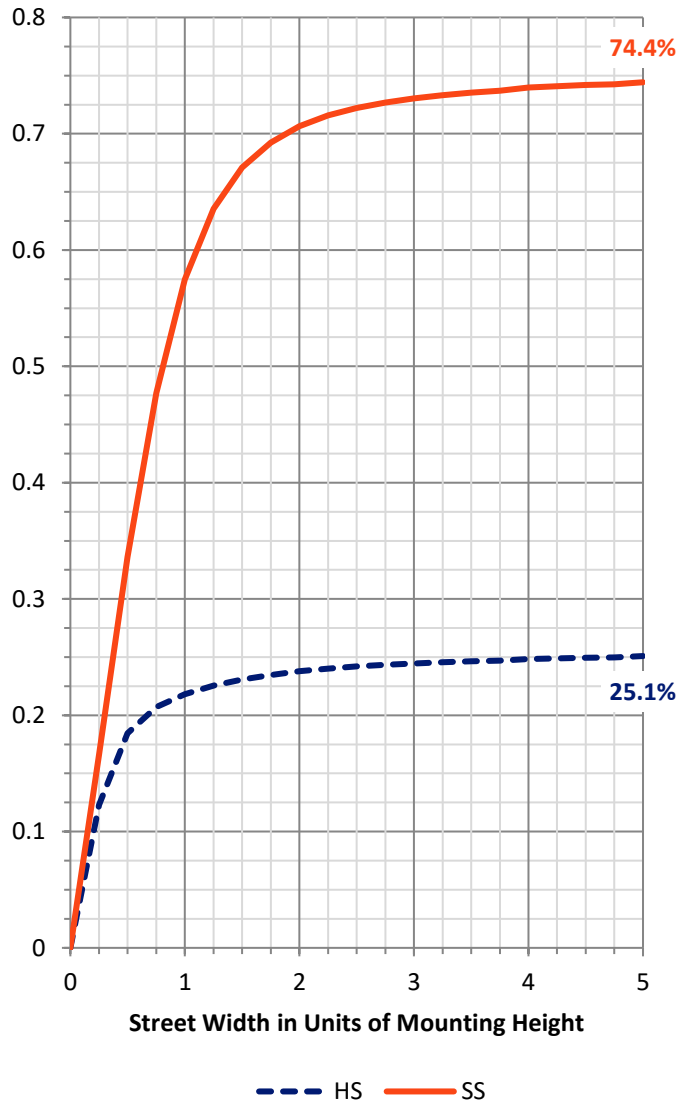
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12708.0 | 0.0 | 12708.0 |
| | % Fixture | 25.5 | 0.0 | 25.5 |
| Street Side | Lumens | 37055.0 | 0.0 | 37055.0 |
| | % Fixture | 74.5 | 0.0 | 74.5 |
| Total | Lumens | 49763.0 | 0.0 | 49763.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 803.8 | 1.6 |
| 10°-20° | 2460.0 | 4.9 |
| 20°-30° | 4170.2 | 8.4 |
| 30°-40° | 6285.4 | 12.6 |
| 40°-50° | 8634.8 | 17.4 |
| 50°-60° | 10038.9 | 20.2 |
| 60°-70° | 9905.5 | 19.9 |
| 70°-80° | 6333.8 | 12.7 |
| 80°-90° | 1130.6 | 2.3 |
| 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° | 49763.0 | 100.0 |
| 0°-180° | 49763.0 | 100.0 |

Coefficient of Utilization

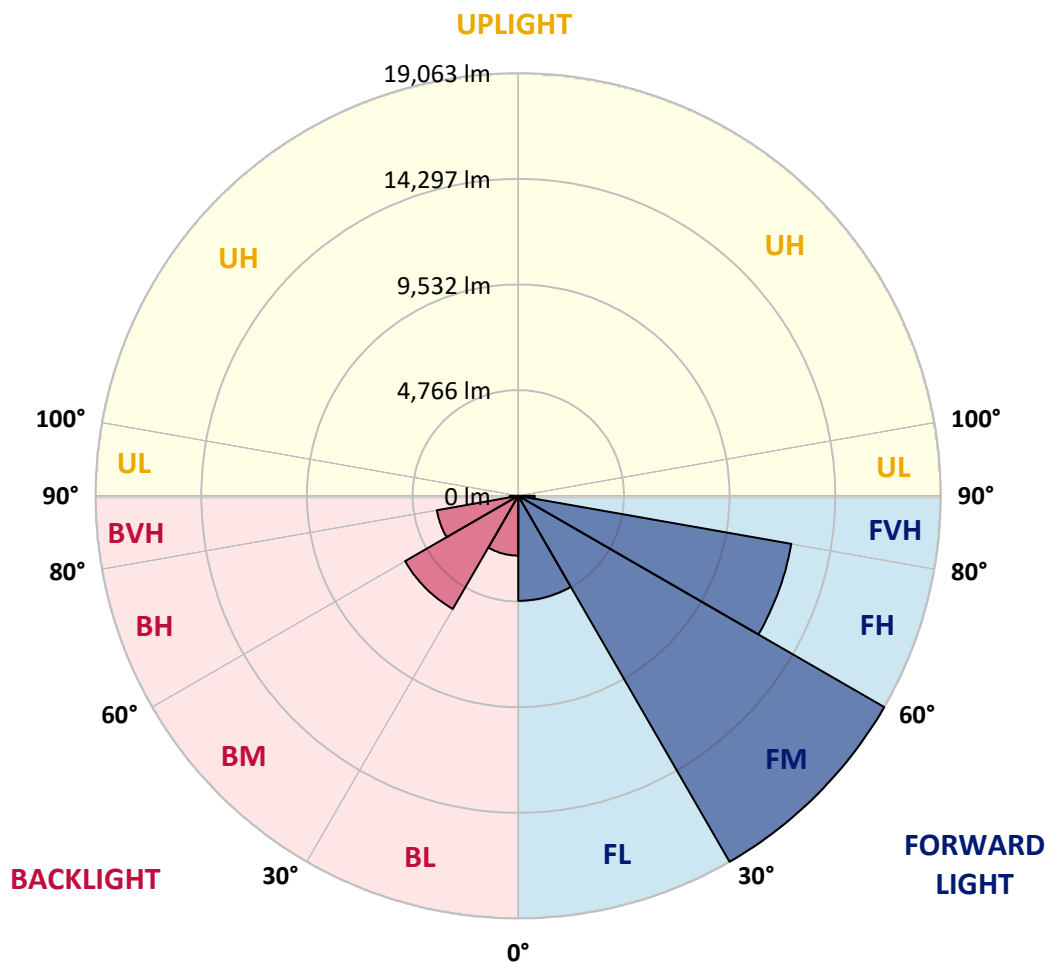


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4736.3 | 9.5 | | | |
| FM (30°-60°) | 19063.3 | 38.3 | | | |
| FH (60°-80°) | 12508.3 | 25.1 | | | G5 |
| FVH (80°-90°) | 747.1 | 1.5 | | | G4/750 |
| BL (0°-30°) | 2697.8 | 5.4 | B4/5000 | | |
| BM (30°-60°) | 5895.8 | 11.8 | B4/8500 | | |
| BH (60°-80°) | 3731.0 | 7.5 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 383.5 | 0.8 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 71° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8342.8 | 8342.8 | 8342.8 | 8342.8 | 8342.8 | 8342.8 | 8342.8 | 8342.8 | 8342.8 | 8342.8 | 8342.8 |
| 2.5° | 8894.2 | 8877.1 | 8856.3 | 8820.3 | 8778.6 | 8729.3 | 8678.2 | 8562.6 | 8443.2 | 8405.3 | 8323.9 |
| 5° | 9383.0 | 9350.8 | 9324.3 | 9290.2 | 9210.6 | 9110.2 | 8975.7 | 8786.2 | 8600.5 | 8541.8 | 8373.1 |
| 7.5° | 9815.1 | 9779.1 | 9731.7 | 9686.2 | 9599.1 | 9470.2 | 9288.3 | 9047.7 | 8824.1 | 8721.8 | 8447.0 |
| 10° | 10199.7 | 10165.6 | 10141.0 | 10089.8 | 10019.7 | 9864.3 | 9648.3 | 9347.0 | 9087.5 | 8945.4 | 8564.5 |
| 12.5° | 10626.0 | 10597.6 | 10546.5 | 10487.7 | 10394.9 | 10245.2 | 10029.2 | 9701.4 | 9424.7 | 9252.3 | 8744.5 |
| 15° | 11059.9 | 11041.0 | 10950.0 | 10915.9 | 10811.7 | 10639.3 | 10447.9 | 10110.7 | 9828.3 | 9614.2 | 9002.2 |
| 17.5° | 11444.6 | 11431.3 | 11374.5 | 11334.7 | 11249.4 | 11056.2 | 10859.1 | 10550.2 | 10262.2 | 9989.4 | 9288.3 |
| 20° | 11690.9 | 11709.9 | 11698.5 | 11690.9 | 11685.2 | 11526.1 | 11330.9 | 11012.6 | 10722.7 | 10451.7 | 9595.3 |
| 22.5° | 11920.2 | 11927.8 | 11958.1 | 12028.2 | 12128.6 | 12058.5 | 11848.2 | 11554.5 | 11258.9 | 10934.9 | 9993.2 |
| 25° | 11992.2 | 11997.9 | 12115.4 | 12327.6 | 12609.9 | 12640.2 | 12467.8 | 12270.7 | 11948.6 | 11630.3 | 10538.9 |
| 27.5° | 12050.9 | 12066.1 | 12213.9 | 12585.3 | 13081.7 | 13225.7 | 13163.2 | 13098.8 | 12871.4 | 12537.9 | 11272.2 |
| 30° | 12033.9 | 12037.7 | 12282.1 | 12759.6 | 13456.9 | 13845.3 | 13940.0 | 14250.8 | 14193.9 | 13966.6 | 12500.0 |
| 32.5° | 11721.2 | 11692.8 | 12047.1 | 12763.4 | 13750.6 | 14466.8 | 14904.5 | 15789.4 | 16124.7 | 16185.4 | 14955.7 |
| 35° | 11084.6 | 11084.6 | 11615.1 | 12615.6 | 13962.8 | 15080.7 | 16003.5 | 17661.4 | 18792.6 | 18822.9 | 17290.1 |
| 37.5° | 10554.0 | 10588.1 | 11183.1 | 12338.9 | 14061.3 | 15704.1 | 17263.5 | 19950.3 | 21144.1 | 21041.8 | 19239.8 |
| 40° | 10025.4 | 10067.1 | 10677.2 | 11961.9 | 14002.6 | 16242.2 | 18485.7 | 22133.2 | 23126.0 | 22891.1 | 20901.5 |
| 42.5° | 9439.9 | 9472.1 | 10044.3 | 11425.6 | 13799.8 | 16634.4 | 19798.8 | 23995.7 | 24785.9 | 24499.8 | 22417.4 |
| 45° | 8854.4 | 8909.3 | 9424.7 | 10705.6 | 13403.8 | 16869.4 | 20924.3 | 25685.9 | 26326.4 | 25996.7 | 23796.8 |
| 47.5° | 7992.3 | 8204.5 | 8805.1 | 9995.1 | 12685.7 | 16852.4 | 21922.8 | 27203.6 | 27747.5 | 27396.9 | 25039.8 |
| 50° | 6239.6 | 6364.6 | 7689.1 | 9350.8 | 11738.3 | 16513.2 | 22711.1 | 28558.4 | 29024.5 | 28713.8 | 26296.0 |
| 52.5° | 5667.3 | 5701.5 | 6129.7 | 8560.7 | 10688.6 | 15842.4 | 23294.7 | 29810.9 | 30265.6 | 29909.4 | 27432.9 |
| 55° | 5373.7 | 5392.6 | 5602.9 | 6999.4 | 9798.0 | 14607.0 | 23559.9 | 30968.6 | 31311.6 | 30909.9 | 28395.5 |
| 57.5° | 4973.9 | 5032.6 | 5326.3 | 5966.7 | 8886.6 | 12860.0 | 23217.0 | 31878.1 | 32221.1 | 31785.3 | 29316.3 |
| 60° | 4678.3 | 4714.3 | 4966.3 | 5462.7 | 7831.2 | 10817.4 | 22030.8 | 32535.6 | 32997.9 | 32596.2 | 30170.9 |
| 62.5° | 4386.5 | 4407.3 | 4619.5 | 5097.0 | 6923.6 | 9297.8 | 19815.8 | 32459.8 | 33395.9 | 33195.0 | 30928.8 |
| 63° | 4325.8 | 4344.8 | 4557.0 | 5030.7 | 6789.1 | 8987.0 | 19349.7 | 32365.1 | 33395.9 | 33255.6 | 31023.6 |
| 65° | 4056.8 | 4079.5 | 4289.8 | 4721.8 | 6226.3 | 8206.4 | 17269.2 | 31775.8 | 33276.5 | 33342.8 | 31158.1 |
| 67.5° | 3657.0 | 3694.9 | 3869.2 | 4246.2 | 5381.2 | 7255.2 | 14182.6 | 31160.0 | 32420.0 | 32562.1 | 30413.4 |
| 70° | 3185.2 | 3192.7 | 3403.1 | 3719.5 | 4536.2 | 6171.4 | 10933.0 | 29291.7 | 30746.9 | 30809.4 | 28672.1 |
| 72.5° | 2683.0 | 2703.9 | 2893.4 | 3160.5 | 3763.1 | 5110.3 | 7816.1 | 25826.1 | 28408.7 | 28761.2 | 25756.0 |
| 75° | 2342.0 | 2359.0 | 2518.2 | 2705.8 | 3124.5 | 4028.3 | 5227.8 | 18832.4 | 25045.5 | 25437.7 | 22279.1 |
| 77.5° | 1961.1 | 1972.5 | 2139.2 | 2268.1 | 2539.0 | 3039.3 | 3609.6 | 9936.3 | 17250.3 | 19338.3 | 17405.6 |
| 80° | 1396.5 | 1398.4 | 1565.1 | 1665.5 | 1839.9 | 1868.3 | 2294.6 | 5288.4 | 7590.6 | 9809.4 | 11503.3 |
| 82.5° | 303.2 | 435.8 | 655.6 | 824.2 | 922.8 | 776.9 | 1129.3 | 2897.1 | 4193.2 | 5006.1 | 6235.8 |
| 85° | 130.7 | 180.0 | 346.7 | 380.9 | 253.9 | 280.4 | 458.5 | 1544.3 | 2396.9 | 2853.6 | 3209.8 |
| 87.5° | 24.6 | 32.2 | 89.1 | 119.4 | 73.9 | 77.7 | 92.8 | 494.5 | 839.4 | 985.3 | 1099.0 |
| 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° | 8342.8 | 8342.8 | 8342.8 | 8342.8 | 8342.8 | 8342.8 | 8342.8 | 8342.8 | 8342.8 | 8342.8 | 8342.8 |
| 2.5° | 8274.6 | 8251.9 | 8176.1 | 8124.9 | 8092.7 | 8051.0 | 7998.0 | 7927.8 | 7907.0 | 7857.7 | 7897.5 |
| 5° | 8280.3 | 8219.6 | 8060.5 | 7944.9 | 7840.7 | 7749.7 | 7643.6 | 7543.2 | 7505.3 | 7439.0 | 7465.5 |
| 7.5° | 8306.8 | 8204.5 | 7958.2 | 7781.9 | 7626.6 | 7503.4 | 7355.6 | 7232.5 | 7188.9 | 7113.1 | 7126.3 |
| 10° | 8376.9 | 8217.7 | 7878.6 | 7664.5 | 7450.4 | 7270.3 | 7097.9 | 6929.3 | 6853.5 | 6787.2 | 6819.4 |
| 12.5° | 8500.1 | 8267.0 | 7842.6 | 7567.8 | 7283.6 | 7063.8 | 6811.8 | 6595.8 | 6489.7 | 6404.4 | 6432.8 |
| 15° | 8685.8 | 8361.8 | 7800.9 | 7429.5 | 7086.6 | 6800.4 | 6491.6 | 6218.7 | 6099.4 | 6033.0 | 6065.3 |
| 17.5° | 8875.2 | 8500.1 | 7776.3 | 7260.9 | 6849.7 | 6478.3 | 6180.8 | 5923.1 | 5705.2 | 5656.0 | 5674.9 |
| 20° | 9098.8 | 8642.2 | 7795.2 | 7082.8 | 6571.2 | 6131.6 | 5779.1 | 5606.7 | 5324.4 | 5225.9 | 5231.5 |
| 22.5° | 9394.4 | 8863.9 | 7812.3 | 6908.4 | 6239.6 | 5748.8 | 5337.7 | 5167.1 | 4896.2 | 4721.8 | 4729.4 |
| 25° | 9818.9 | 9138.6 | 7852.1 | 6747.4 | 5913.7 | 5328.2 | 4852.6 | 4568.4 | 4399.7 | 4178.0 | 4179.9 |
| 27.5° | 10400.6 | 9515.7 | 7931.6 | 6595.8 | 5566.9 | 4845.0 | 4263.3 | 3945.0 | 3797.2 | 3651.3 | 3632.3 |
| 30° | 11393.4 | 10139.1 | 8049.1 | 6429.1 | 5155.8 | 4261.4 | 3641.8 | 3363.3 | 3238.2 | 3118.8 | 3105.6 |
| 32.5° | 13489.1 | 11653.0 | 8212.1 | 6218.7 | 4712.4 | 3598.2 | 3092.3 | 2872.5 | 2696.3 | 2578.8 | 2595.9 |
| 35° | 15639.7 | 13549.7 | 8901.8 | 5968.6 | 4212.1 | 3018.4 | 2679.2 | 2406.4 | 2180.9 | 2090.0 | 2095.6 |
| 37.5° | 17481.4 | 15268.3 | 9938.2 | 5697.7 | 3658.9 | 2645.1 | 2264.3 | 2000.9 | 1820.9 | 1775.4 | 1832.3 |
| 40° | 19014.3 | 16679.9 | 10770.0 | 5411.5 | 3077.2 | 2330.6 | 1845.5 | 1701.5 | 1585.9 | 1572.7 | 1623.8 |
| 42.5° | 20463.8 | 17955.1 | 11469.2 | 5081.9 | 2535.2 | 1925.1 | 1532.9 | 1567.0 | 1549.9 | 1548.1 | 1555.6 |
| 45° | 21780.7 | 19137.5 | 11859.6 | 4591.1 | 2152.5 | 1576.5 | 1447.6 | 1576.5 | 1604.9 | 1601.1 | 1580.3 |
| 47.5° | 22980.1 | 20217.5 | 12124.8 | 3880.6 | 1822.8 | 1477.9 | 1495.0 | 1582.2 | 1635.2 | 1644.7 | 1621.9 |
| 50° | 24225.0 | 21272.9 | 12166.5 | 3020.3 | 1692.1 | 1555.6 | 1536.7 | 1525.3 | 1621.9 | 1620.1 | 1621.9 |
| 52.5° | 25337.3 | 22178.6 | 11711.8 | 2347.7 | 1760.3 | 1637.1 | 1570.8 | 1504.5 | 1559.4 | 1561.3 | 1523.4 |
| 55° | 26174.8 | 22921.4 | 10933.0 | 2057.8 | 1817.1 | 1705.3 | 1669.3 | 1536.7 | 1502.6 | 1479.8 | 1493.1 |
| 57.5° | 27038.8 | 23584.6 | 9875.7 | 1927.0 | 1834.2 | 1720.5 | 1756.5 | 1544.3 | 1493.1 | 1388.9 | 1381.3 |
| 60° | 27870.6 | 24120.8 | 8623.2 | 1839.9 | 1813.3 | 1712.9 | 1701.5 | 1603.0 | 1504.5 | 1349.1 | 1296.0 |
| 62.5° | 28376.5 | 24238.3 | 7342.4 | 1754.6 | 1773.5 | 1701.5 | 1640.9 | 1646.6 | 1578.4 | 1493.1 | 1481.7 |
| 63° | 28435.3 | 24198.5 | 7097.9 | 1733.7 | 1764.1 | 1699.6 | 1640.9 | 1650.4 | 1578.4 | 1527.2 | 1529.1 |
| 65° | 28361.4 | 23736.2 | 6139.2 | 1644.7 | 1730.0 | 1669.3 | 1616.3 | 1568.9 | 1451.4 | 1483.6 | 1521.5 |
| 67.5° | 27531.4 | 22224.1 | 4719.9 | 1500.7 | 1654.2 | 1620.1 | 1542.4 | 1424.9 | 1318.8 | 1297.9 | 1320.7 |
| 70° | 25289.9 | 19747.6 | 3344.3 | 1279.0 | 1517.7 | 1557.5 | 1523.4 | 1347.2 | 1241.1 | 1222.1 | 1267.6 |
| 72.5° | 22178.6 | 17146.0 | 2296.5 | 1023.2 | 1271.4 | 1449.5 | 1440.0 | 1297.9 | 1203.2 | 1148.2 | 1171.0 |
| 75° | 18669.5 | 13830.1 | 1604.9 | 862.1 | 979.6 | 1305.5 | 1366.2 | 1256.3 | 1184.3 | 1133.1 | 1125.5 |
| 77.5° | 14374.0 | 10446.0 | 1261.9 | 737.1 | 809.1 | 1057.3 | 1256.3 | 1246.8 | 1335.8 | 1576.5 | 1523.4 |
| 80° | 9792.3 | 6946.3 | 909.5 | 553.3 | 644.2 | 740.9 | 1081.9 | 1286.6 | 1690.2 | 992.9 | 973.9 |
| 82.5° | 5692.0 | 4081.4 | 568.4 | 367.6 | 384.6 | 504.0 | 678.3 | 1358.6 | 1131.2 | 447.2 | 564.7 |
| 85° | 2749.4 | 1777.3 | 284.2 | 253.9 | 176.2 | 189.5 | 314.5 | 1265.7 | 801.5 | 199.0 | 39.8 |
| 87.5° | 877.3 | 432.0 | 30.3 | 22.7 | 26.5 | 37.9 | 149.7 | 773.1 | 471.8 | 170.5 | 24.6 |
| 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)