

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: P285757

Luminaire Tested: **PRV-XL-C125-D-UNV-T2-BZ-7050**

Issue Date: 2/13/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P285757  
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-C125-D-UNV-T2-BZ-7050  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 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: 37166 lumens  
Efficiency: N/A  
Efficacy: 140.8 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

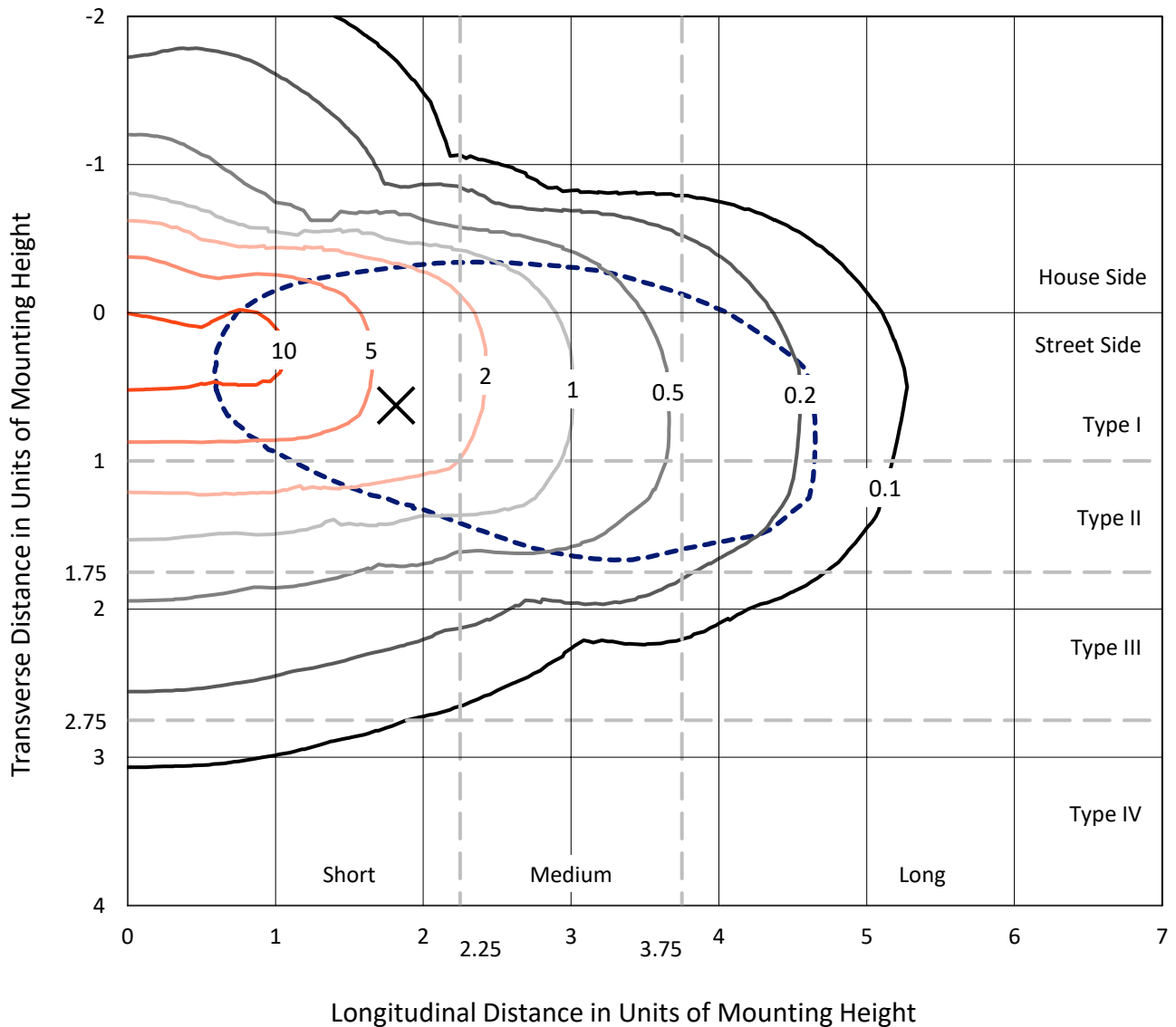
Input Watts (W): 264  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

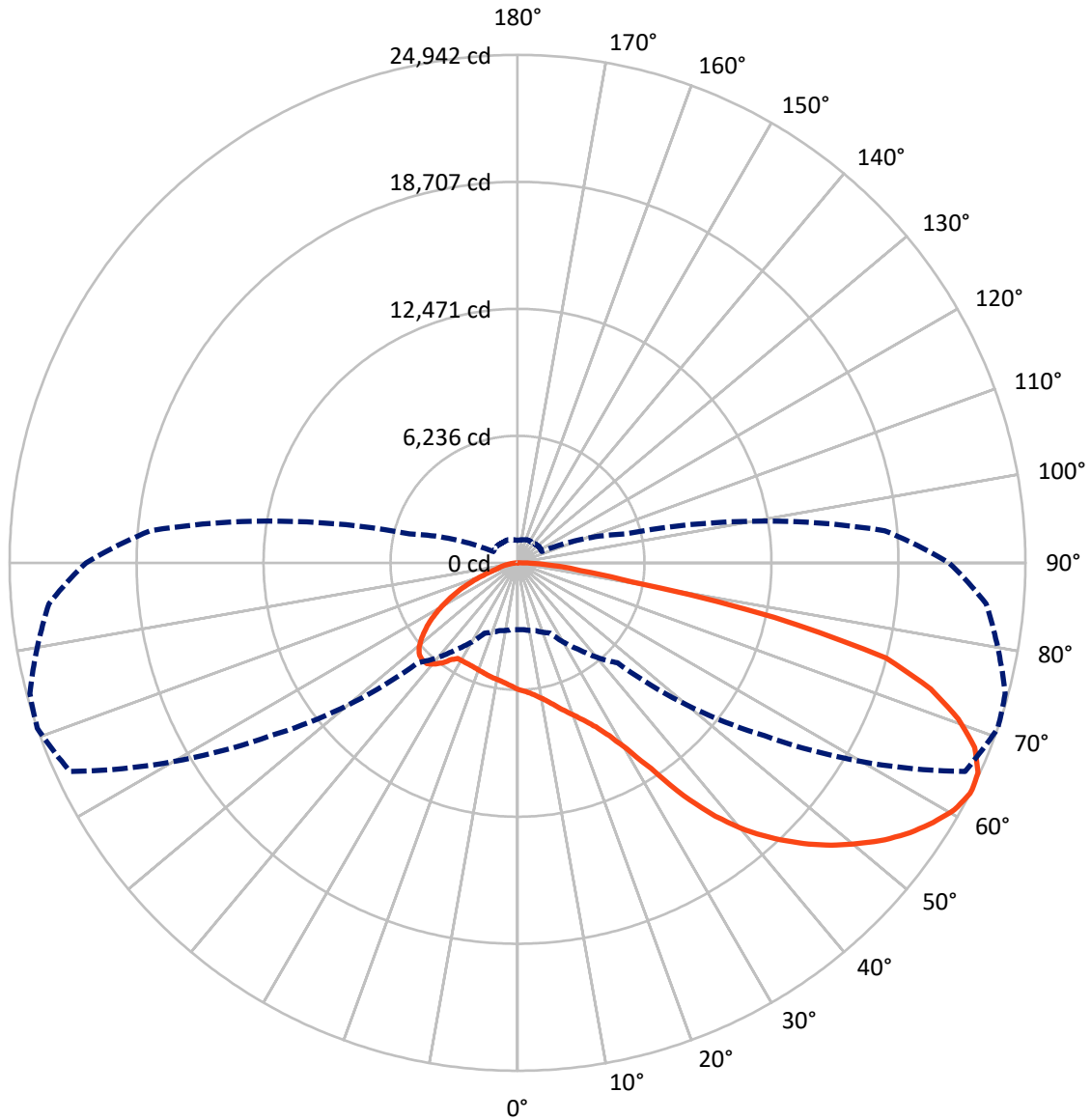
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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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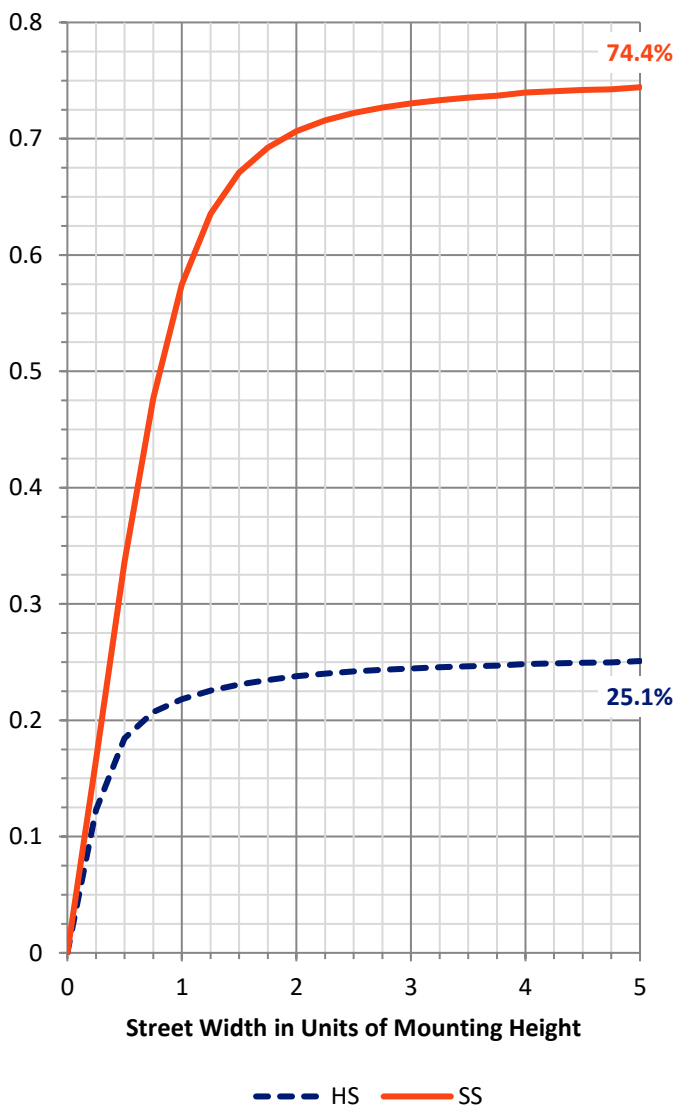
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9491.1   | 0.0    | 9491.1  |
|                    | % Fixture | 25.5     | 0.0    | 25.5    |
| <b>Street Side</b> | Lumens    | 27674.9  | 0.0    | 27674.9 |
|                    | % Fixture | 74.5     | 0.0    | 74.5    |
| <b>Total</b>       | Lumens    | 37166.0  | 0.0    | 37166.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 600.3   | 1.6       |
| 10°-20°   | 1837.3  | 4.9       |
| 20°-30°   | 3114.6  | 8.4       |
| 30°-40°   | 4694.3  | 12.6      |
| 40°-50°   | 6449.0  | 17.4      |
| 50°-60°   | 7497.6  | 20.2      |
| 60°-70°   | 7398.0  | 19.9      |
| 70°-80°   | 4730.4  | 12.7      |
| 80°-90°   | 844.4   | 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°    | 37166.0 | 100.0     |
| 0°-180°   | 37166.0 | 100.0     |

**Coefficient of Utilization**

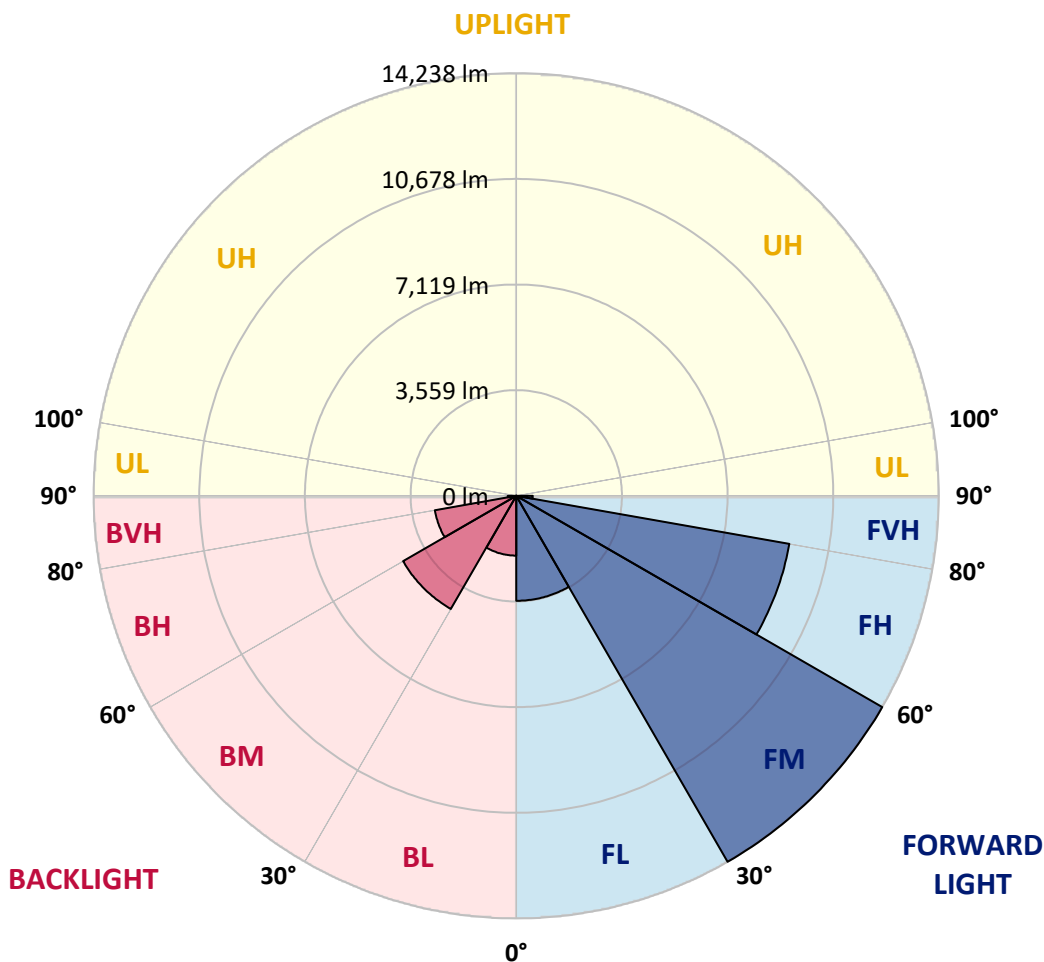


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3537.3  | 9.5       |                         |      |          |
| FM (30°-60°)   | 14237.6 | 38.3      |                         |      |          |
| FH (60°-80°)   | 9341.9  | 25.1      |                         |      | G4/12000 |
| FVH (80°-90°)  | 558.0   | 1.5       |                         |      | G4/750   |
| BL (0°-30°)    | 2014.8  | 5.4       | B3/2500                 |      |          |
| BM (30°-60°)   | 4403.3  | 11.8      | B3/5000                 |      |          |
| BH (60°-80°)   | 2786.6  | 7.5       | B4/5000                 |      | G4/5000  |
| BVH (80°-90°)  | 286.4   | 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-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 65°     | 71°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6230.9 | 6230.9 | 6230.9 | 6230.9 | 6230.9  | 6230.9  | 6230.9  | 6230.9  | 6230.9  | 6230.9  | 6230.9  |
| 2.5°  | 6642.7 | 6630.0 | 6614.4 | 6587.5 | 6556.4  | 6519.6  | 6481.4  | 6395.1  | 6305.9  | 6277.6  | 6216.8  |
| 5°    | 7007.8 | 6983.8 | 6964.0 | 6938.5 | 6879.0  | 6804.0  | 6703.6  | 6562.1  | 6423.4  | 6379.5  | 6253.6  |
| 7.5°  | 7330.5 | 7303.6 | 7268.2 | 7234.2 | 7169.2  | 7072.9  | 6937.1  | 6757.3  | 6590.4  | 6513.9  | 6308.7  |
| 10°   | 7617.8 | 7592.3 | 7573.9 | 7535.7 | 7483.3  | 7367.3  | 7205.9  | 6980.9  | 6787.1  | 6680.9  | 6396.5  |
| 12.5° | 7936.2 | 7914.9 | 7876.7 | 7832.9 | 7763.5  | 7651.7  | 7490.4  | 7245.6  | 7039.0  | 6910.2  | 6530.9  |
| 15°   | 8260.2 | 8246.1 | 8178.2 | 8152.7 | 8074.8  | 7946.1  | 7803.1  | 7551.2  | 7340.4  | 7180.5  | 6723.4  |
| 17.5° | 8547.5 | 8537.6 | 8495.1 | 8465.4 | 8401.7  | 8257.4  | 8110.2  | 7879.6  | 7664.5  | 7460.7  | 6937.1  |
| 20°   | 8731.5 | 8745.6 | 8737.1 | 8731.5 | 8727.2  | 8608.4  | 8462.6  | 8224.9  | 8008.3  | 7806.0  | 7166.3  |
| 22.5° | 8902.7 | 8908.4 | 8931.0 | 8983.4 | 9058.4  | 9006.0  | 8848.9  | 8629.6  | 8408.8  | 8166.8  | 7463.5  |
| 25°   | 8956.5 | 8960.7 | 9048.5 | 9207.0 | 9417.8  | 9440.5  | 9311.7  | 9164.5  | 8923.9  | 8686.2  | 7871.1  |
| 27.5° | 9000.4 | 9011.7 | 9122.1 | 9399.4 | 9770.2  | 9877.8  | 9831.1  | 9782.9  | 9613.1  | 9364.1  | 8418.7  |
| 30°   | 8987.6 | 8990.5 | 9173.0 | 9529.6 | 10050.4 | 10340.5 | 10411.3 | 10643.3 | 10600.9 | 10431.1 | 9335.7  |
| 32.5° | 8754.1 | 8732.9 | 8997.5 | 9532.5 | 10269.7 | 10804.7 | 11131.6 | 11792.4 | 12042.9 | 12088.2 | 11169.8 |
| 35°   | 8278.6 | 8278.6 | 8674.9 | 9422.1 | 10428.2 | 11263.2 | 11952.4 | 13190.6 | 14035.5 | 14058.1 | 12913.2 |
| 37.5° | 7882.4 | 7907.9 | 8352.2 | 9215.5 | 10501.8 | 11728.8 | 12893.4 | 14900.1 | 15791.7 | 15715.2 | 14369.4 |
| 40°   | 7487.6 | 7518.7 | 7974.4 | 8933.8 | 10458.0 | 12130.7 | 13806.2 | 16530.4 | 17271.9 | 17096.4 | 15610.5 |
| 42.5° | 7050.3 | 7074.3 | 7501.7 | 8533.4 | 10306.5 | 12423.6 | 14786.9 | 17921.5 | 18511.6 | 18297.9 | 16742.6 |
| 45°   | 6613.0 | 6654.0 | 7039.0 | 7995.6 | 10010.8 | 12599.1 | 15627.5 | 19183.8 | 19662.1 | 19415.9 | 17772.9 |
| 47.5° | 5969.1 | 6127.6 | 6576.2 | 7464.9 | 9474.4  | 12586.3 | 16373.3 | 20317.3 | 20723.5 | 20461.7 | 18701.2 |
| 50°   | 4660.1 | 4753.5 | 5742.7 | 6983.8 | 8766.9  | 12333.0 | 16962.0 | 21329.1 | 21677.3 | 21445.2 | 19639.5 |
| 52.5° | 4232.7 | 4258.2 | 4578.0 | 6393.7 | 7982.9  | 11832.1 | 17397.9 | 22264.6 | 22604.2 | 22338.2 | 20488.6 |
| 55°   | 4013.4 | 4027.5 | 4184.6 | 5227.6 | 7317.7  | 10909.4 | 17596.0 | 23129.2 | 23385.4 | 23085.4 | 21207.4 |
| 57.5° | 3714.8 | 3758.6 | 3978.0 | 4456.3 | 6637.1  | 9604.6  | 17339.8 | 23808.5 | 24064.6 | 23739.2 | 21895.2 |
| 60°   | 3494.0 | 3520.9 | 3709.1 | 4079.9 | 5848.8  | 8079.1  | 16454.0 | 24299.6 | 24644.8 | 24344.8 | 22533.4 |
| 62.5° | 3276.1 | 3291.6 | 3450.1 | 3806.8 | 5171.0  | 6944.1  | 14799.6 | 24242.9 | 24942.0 | 24792.0 | 23099.5 |
| 63°   | 3230.8 | 3244.9 | 3403.4 | 3757.2 | 5070.5  | 6712.1  | 14451.5 | 24172.2 | 24942.0 | 24837.3 | 23170.3 |
| 65°   | 3029.8 | 3046.8 | 3203.9 | 3526.6 | 4650.2  | 6129.0  | 12897.7 | 23732.1 | 24852.9 | 24902.4 | 23270.7 |
| 67.5° | 2731.2 | 2759.5 | 2889.7 | 3171.4 | 4019.0  | 5418.6  | 10592.4 | 23272.2 | 24213.2 | 24319.4 | 22714.6 |
| 70°   | 2378.9 | 2384.5 | 2541.6 | 2777.9 | 3387.9  | 4609.1  | 8165.4  | 21876.8 | 22963.6 | 23010.3 | 21414.1 |
| 72.5° | 2003.9 | 2019.4 | 2160.9 | 2360.5 | 2810.5  | 3816.7  | 5837.5  | 19288.5 | 21217.4 | 21480.6 | 19236.1 |
| 75°   | 1749.1 | 1761.9 | 1880.7 | 2020.8 | 2333.6  | 3008.6  | 3904.4  | 14065.2 | 18705.5 | 18998.4 | 16639.3 |
| 77.5° | 1464.7 | 1473.2 | 1597.7 | 1693.9 | 1896.3  | 2269.9  | 2695.9  | 7421.0  | 12883.5 | 14443.0 | 12999.6 |
| 80°   | 1043.0 | 1044.4 | 1168.9 | 1243.9 | 1374.1  | 1395.3  | 1713.7  | 3949.7  | 5669.1  | 7326.2  | 8591.4  |
| 82.5° | 226.4  | 325.5  | 489.6  | 615.6  | 689.2   | 580.2   | 843.4   | 2163.8  | 3131.7  | 3738.8  | 4657.3  |
| 85°   | 97.6   | 134.4  | 259.0  | 284.4  | 189.6   | 209.4   | 342.5   | 1153.3  | 1790.2  | 2131.2  | 2397.3  |
| 87.5° | 18.4   | 24.1   | 66.5   | 89.2   | 55.2    | 58.0    | 69.3    | 369.4   | 626.9   | 735.9   | 820.8   |
| 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°    | 6230.9  | 6230.9  | 6230.9 | 6230.9 | 6230.9 | 6230.9 | 6230.9 | 6230.9 | 6230.9 | 6230.9 | 6230.9 |
| 2.5°  | 6180.0  | 6163.0  | 6106.4 | 6068.2 | 6044.1 | 6013.0 | 5973.4 | 5921.0 | 5905.4 | 5868.6 | 5898.3 |
| 5°    | 6184.2  | 6138.9  | 6020.1 | 5933.7 | 5855.9 | 5788.0 | 5708.7 | 5633.7 | 5605.4 | 5555.9 | 5575.7 |
| 7.5°  | 6204.0  | 6127.6  | 5943.6 | 5812.0 | 5696.0 | 5604.0 | 5493.6 | 5401.6 | 5369.1 | 5312.5 | 5322.4 |
| 10°   | 6256.4  | 6137.5  | 5884.2 | 5724.3 | 5564.4 | 5429.9 | 5301.2 | 5175.2 | 5118.6 | 5069.1 | 5093.1 |
| 12.5° | 6348.4  | 6174.3  | 5857.3 | 5652.1 | 5439.8 | 5275.7 | 5087.5 | 4926.1 | 4846.9 | 4783.2 | 4804.4 |
| 15°   | 6487.1  | 6245.1  | 5826.2 | 5548.8 | 5292.7 | 5079.0 | 4848.3 | 4644.5 | 4555.4 | 4505.8 | 4529.9 |
| 17.5° | 6628.6  | 6348.4  | 5807.8 | 5422.9 | 5115.8 | 4838.4 | 4616.2 | 4423.8 | 4261.0 | 4224.2 | 4238.4 |
| 20°   | 6795.6  | 6454.5  | 5821.9 | 5289.8 | 4907.7 | 4579.4 | 4316.2 | 4187.4 | 3976.6 | 3903.0 | 3907.2 |
| 22.5° | 7016.3  | 6620.1  | 5834.7 | 5159.6 | 4660.1 | 4293.6 | 3986.5 | 3859.1 | 3656.7 | 3526.6 | 3532.2 |
| 25°   | 7333.3  | 6825.3  | 5864.4 | 5039.4 | 4416.7 | 3979.4 | 3624.2 | 3411.9 | 3286.0 | 3120.4 | 3121.8 |
| 27.5° | 7767.8  | 7106.9  | 5923.8 | 4926.1 | 4157.7 | 3618.5 | 3184.1 | 2946.3 | 2836.0 | 2727.0 | 2712.8 |
| 30°   | 8509.3  | 7572.5  | 6011.6 | 4801.6 | 3850.6 | 3182.7 | 2719.9 | 2511.9 | 2418.5 | 2329.3 | 2319.4 |
| 32.5° | 10074.5 | 8703.2  | 6133.3 | 4644.5 | 3519.5 | 2687.4 | 2309.5 | 2145.4 | 2013.8 | 1926.0 | 1938.8 |
| 35°   | 11680.7 | 10119.7 | 6648.4 | 4457.7 | 3145.9 | 2254.3 | 2001.0 | 1797.2 | 1628.8 | 1560.9 | 1565.2 |
| 37.5° | 13056.2 | 11403.3 | 7422.5 | 4255.4 | 2732.7 | 1975.6 | 1691.1 | 1494.4 | 1360.0 | 1326.0 | 1368.5 |
| 40°   | 14201.0 | 12457.6 | 8043.7 | 4041.7 | 2298.2 | 1740.6 | 1378.4 | 1270.8 | 1184.5 | 1174.6 | 1212.8 |
| 42.5° | 15283.6 | 13410.0 | 8565.9 | 3795.4 | 1893.5 | 1437.8 | 1144.9 | 1170.3 | 1157.6 | 1156.2 | 1161.8 |
| 45°   | 16267.2 | 14293.0 | 8857.4 | 3428.9 | 1607.6 | 1177.4 | 1081.2 | 1177.4 | 1198.6 | 1195.8 | 1180.2 |
| 47.5° | 17162.9 | 15099.7 | 9055.5 | 2898.2 | 1361.4 | 1103.8 | 1116.6 | 1181.7 | 1221.3 | 1228.4 | 1211.4 |
| 50°   | 18092.7 | 15887.9 | 9086.7 | 2255.8 | 1263.7 | 1161.8 | 1147.7 | 1139.2 | 1211.4 | 1210.0 | 1211.4 |
| 52.5° | 18923.4 | 16564.3 | 8747.0 | 1753.4 | 1314.7 | 1222.7 | 1173.2 | 1123.6 | 1164.7 | 1166.1 | 1137.8 |
| 55°   | 19548.9 | 17119.1 | 8165.4 | 1536.9 | 1357.1 | 1273.6 | 1246.7 | 1147.7 | 1122.2 | 1105.2 | 1115.1 |
| 57.5° | 20194.2 | 17614.4 | 7375.8 | 1439.2 | 1369.9 | 1285.0 | 1311.8 | 1153.3 | 1115.1 | 1037.3 | 1031.6 |
| 60°   | 20815.5 | 18014.9 | 6440.4 | 1374.1 | 1354.3 | 1279.3 | 1270.8 | 1197.2 | 1123.6 | 1007.6 | 968.0  |
| 62.5° | 21193.3 | 18102.6 | 5483.7 | 1310.4 | 1324.6 | 1270.8 | 1225.5 | 1229.8 | 1178.8 | 1115.1 | 1106.6 |
| 63°   | 21237.2 | 18072.9 | 5301.2 | 1294.9 | 1317.5 | 1269.4 | 1225.5 | 1232.6 | 1178.8 | 1140.6 | 1142.0 |
| 65°   | 21182.0 | 17727.6 | 4585.1 | 1228.4 | 1292.0 | 1246.7 | 1207.1 | 1171.7 | 1084.0 | 1108.1 | 1136.4 |
| 67.5° | 20562.1 | 16598.3 | 3525.1 | 1120.8 | 1235.4 | 1210.0 | 1151.9 | 1064.2 | 984.9  | 969.4  | 986.4  |
| 70°   | 18888.0 | 14748.7 | 2497.7 | 955.2  | 1133.5 | 1163.3 | 1137.8 | 1006.2 | 926.9  | 912.8  | 946.7  |
| 72.5° | 16564.3 | 12805.7 | 1715.2 | 764.2  | 949.6  | 1082.6 | 1075.5 | 969.4  | 898.6  | 857.6  | 874.6  |
| 75°   | 13943.5 | 10329.2 | 1198.6 | 643.9  | 731.6  | 975.0  | 1020.3 | 938.2  | 884.5  | 846.3  | 840.6  |
| 77.5° | 10735.3 | 7801.7  | 942.5  | 550.5  | 604.3  | 789.7  | 938.2  | 931.2  | 997.7  | 1177.4 | 1137.8 |
| 80°   | 7313.5  | 5187.9  | 679.3  | 413.2  | 481.2  | 553.3  | 808.1  | 960.9  | 1262.3 | 741.5  | 727.4  |
| 82.5° | 4251.1  | 3048.2  | 424.5  | 274.5  | 287.3  | 376.4  | 506.6  | 1014.7 | 844.8  | 334.0  | 421.7  |
| 85°   | 2053.4  | 1327.4  | 212.3  | 189.6  | 131.6  | 141.5  | 234.9  | 945.3  | 598.6  | 148.6  | 29.7   |
| 87.5° | 655.2   | 322.7   | 22.6   | 17.0   | 19.8   | 28.3   | 111.8  | 577.4  | 352.4  | 127.4  | 18.4   |
| 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)