

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: P511167

Luminaire Tested: **PRV-P-PA1B-8540-U-T2R-HSS**

Issue Date: 4/7/2021

### Test Information

Test Method: LM-79-08  
Report Number: P511167  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-171-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/7/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-P-PA1B-8540-U-T2R-HSS  
Description: PREVAIL AREA AND WALL LUMINAIRE  
(1) 85 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 4769.3 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Luminous Opening: Rectangular (W 1.04' x L: 0.58' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 52.8  
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: 28.75 FT

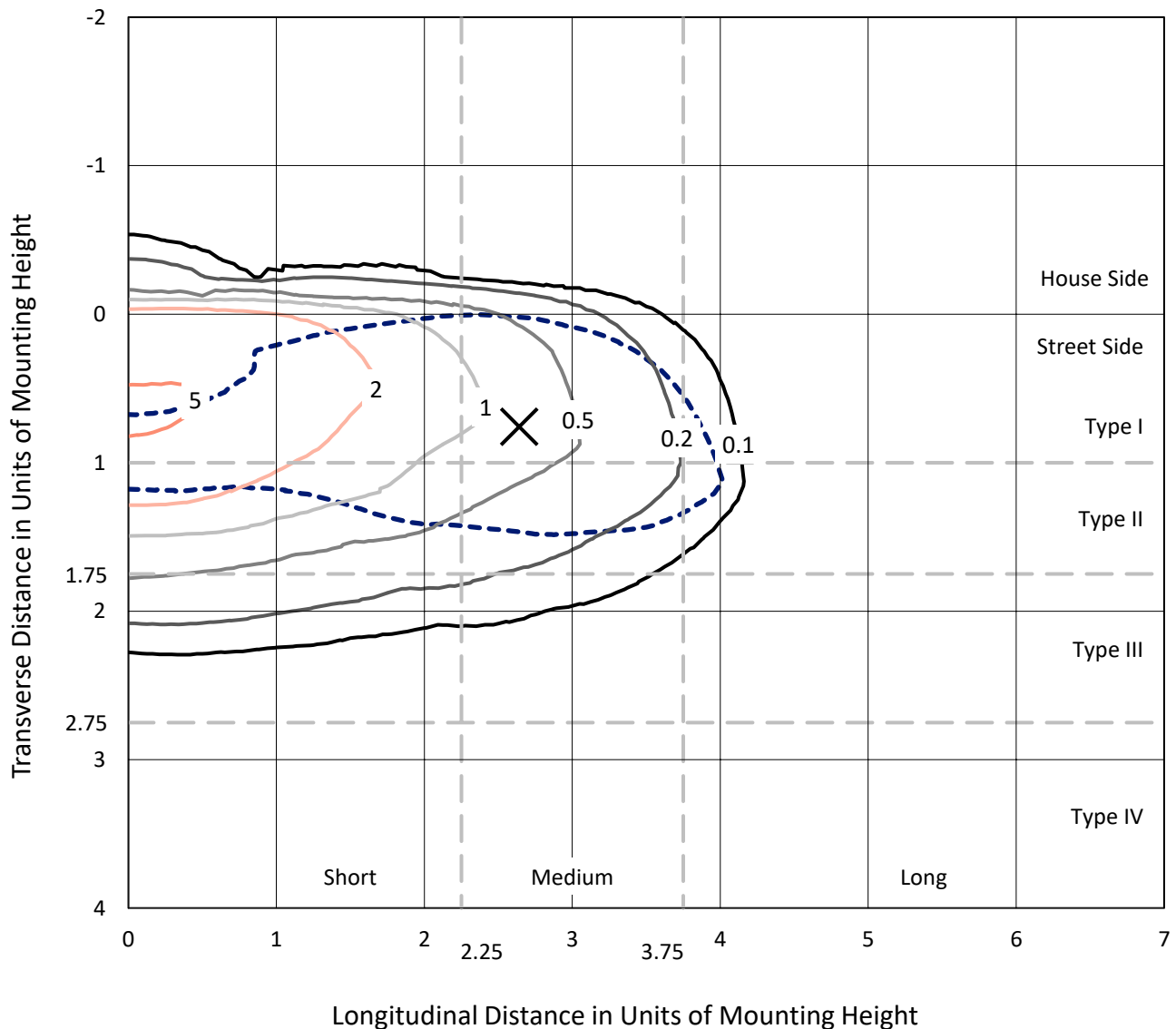


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

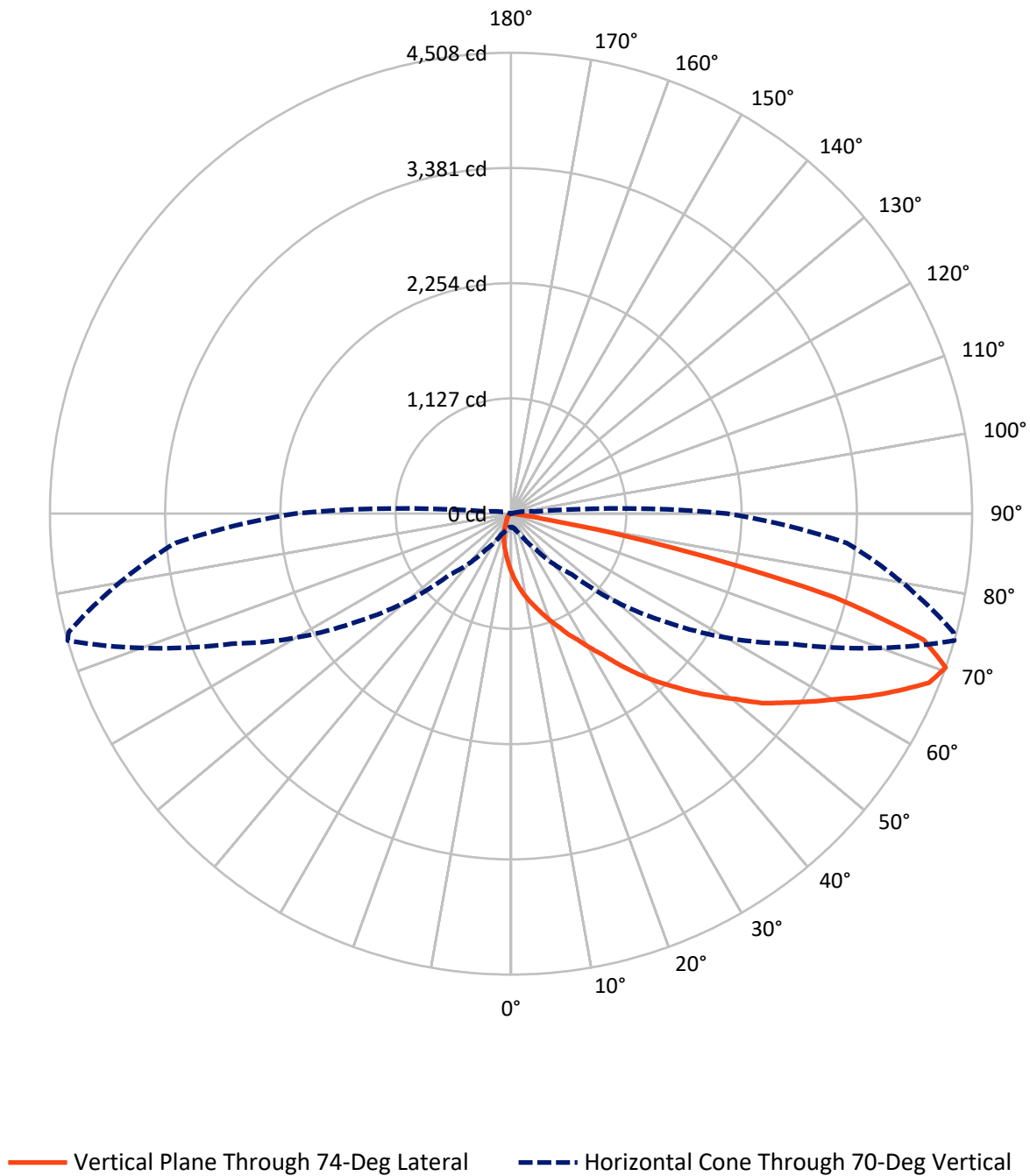


Based on 15 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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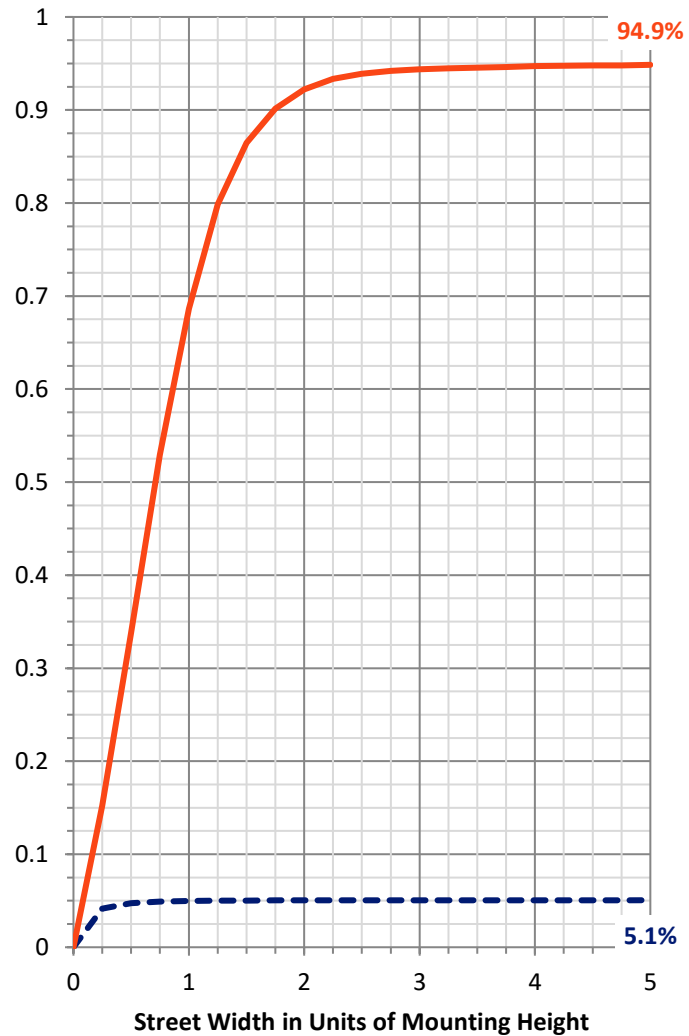
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 242.7    | 0.0    | 242.7  |
|                    | % Fixture | 5.1      | 0.0    | 5.1    |
| <b>Street Side</b> | Lumens    | 4526.6   | 0.0    | 4526.6 |
|                    | % Fixture | 94.9     | 0.0    | 94.9   |
| <b>Total</b>       | Lumens    | 4769.3   | 0.0    | 4769.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 53.7   | 1.1       |
| 10°-20°   | 172.9  | 3.6       |
| 20°-30°   | 345.7  | 7.2       |
| 30°-40°   | 646.2  | 13.5      |
| 40°-50°   | 957.7  | 20.1      |
| 50°-60°   | 1095.0 | 23.0      |
| 60°-70°   | 991.7  | 20.8      |
| 70°-80°   | 489.7  | 10.3      |
| 80°-90°   | 16.6   | 0.3       |
| 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°    | 4769.3 | 100.0     |
| 0°-180°   | 4769.3 | 100.0     |

**Coefficient of Utilization**



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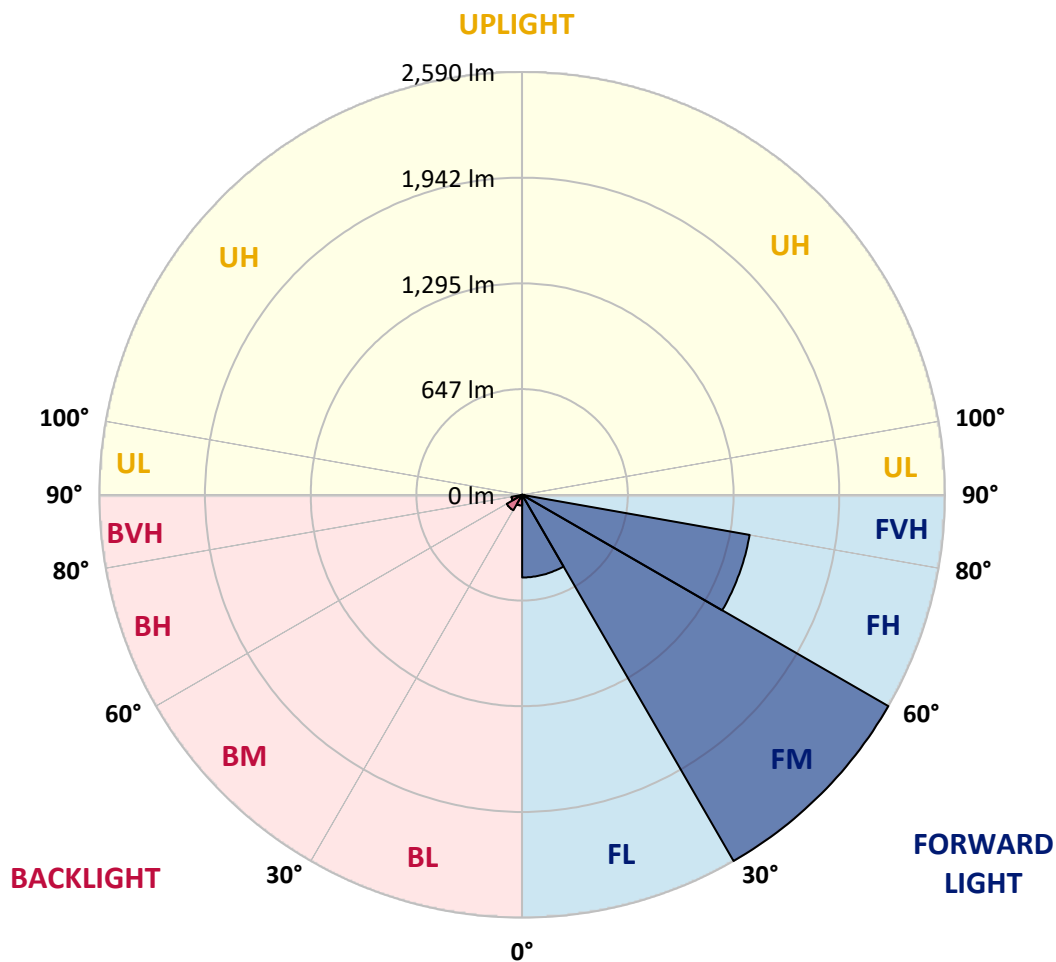
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 506.3  | 10.6      |                         |      |         |
| FM   | (30°-60°)   | 2589.9 | 54.3      |                         |      |         |
| FH   | (60°-80°)   | 1414.9 | 29.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 15.6   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 66.1   | 1.4       | B0/110                  |      |         |
| BM   | (30°-60°)   | 109.1  | 2.3       | B0/220                  |      |         |
| BH   | (60°-80°)   | 66.5   | 1.4       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.0    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 74°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 568.1  | 568.1  | 568.1  | 568.1  | 568.1  | 568.1  | 568.1  | 568.1  | 568.1  | 568.1  | 568.1  |
| 2.5°  | 779.2  | 774.2  | 769.0  | 769.0  | 753.6  | 722.9  | 705.0  | 674.3  | 637.2  | 629.5  | 596.3  |
| 5°    | 891.8  | 897.0  | 890.6  | 877.7  | 863.7  | 839.4  | 804.8  | 753.6  | 701.2  | 697.3  | 619.3  |
| 7.5°  | 949.5  | 952.0  | 948.1  | 949.5  | 941.7  | 916.2  | 889.3  | 834.3  | 766.5  | 760.1  | 653.9  |
| 10°   | 998.1  | 1000.6 | 996.8  | 999.3  | 987.8  | 982.7  | 958.4  | 907.2  | 834.3  | 826.6  | 693.5  |
| 12.5° | 1059.5 | 1058.2 | 1056.9 | 1062.1 | 1048.0 | 1039.0 | 1023.6 | 977.6  | 900.8  | 886.7  | 740.9  |
| 15°   | 1096.6 | 1099.2 | 1096.6 | 1110.7 | 1114.5 | 1105.5 | 1082.5 | 1046.6 | 967.3  | 958.4  | 788.2  |
| 17.5° | 1122.2 | 1122.2 | 1133.7 | 1156.7 | 1167.0 | 1170.8 | 1164.4 | 1117.0 | 1044.1 | 1031.3 | 845.8  |
| 20°   | 1149.1 | 1156.7 | 1167.0 | 1193.8 | 1213.0 | 1232.2 | 1242.5 | 1216.9 | 1123.4 | 1111.9 | 902.1  |
| 22.5° | 1221.9 | 1224.5 | 1225.8 | 1251.4 | 1269.3 | 1294.9 | 1306.4 | 1307.7 | 1206.6 | 1196.3 | 959.6  |
| 25°   | 1439.5 | 1421.6 | 1384.5 | 1353.7 | 1361.5 | 1367.8 | 1367.8 | 1404.9 | 1307.7 | 1288.5 | 1021.1 |
| 27.5° | 1736.4 | 1726.1 | 1678.8 | 1603.3 | 1476.6 | 1466.4 | 1453.6 | 1508.6 | 1399.8 | 1375.5 | 1076.1 |
| 30°   | 2014.0 | 2011.4 | 1944.9 | 1856.6 | 1723.5 | 1590.5 | 1541.9 | 1600.7 | 1521.4 | 1484.3 | 1131.1 |
| 32.5° | 2199.5 | 2203.4 | 2168.8 | 2097.2 | 1978.2 | 1800.4 | 1641.6 | 1689.0 | 1644.2 | 1618.6 | 1198.9 |
| 35°   | 2321.1 | 2321.1 | 2294.3 | 2254.6 | 2172.7 | 2028.1 | 1790.1 | 1799.0 | 1805.4 | 1778.6 | 1291.1 |
| 37.5° | 2403.0 | 2394.0 | 2365.9 | 2342.9 | 2304.4 | 2225.1 | 2008.9 | 1916.8 | 1971.8 | 1919.4 | 1392.2 |
| 40°   | 2461.8 | 2446.5 | 2427.3 | 2399.2 | 2383.8 | 2371.0 | 2227.7 | 2049.8 | 2142.0 | 2090.8 | 1500.9 |
| 42.5° | 2490.0 | 2487.4 | 2464.4 | 2445.2 | 2437.6 | 2477.2 | 2424.7 | 2208.5 | 2304.4 | 2266.1 | 1610.9 |
| 45°   | 2495.1 | 2496.4 | 2490.0 | 2464.4 | 2468.3 | 2548.9 | 2570.6 | 2390.2 | 2483.6 | 2438.8 | 1738.9 |
| 47.5° | 2456.7 | 2456.7 | 2474.7 | 2478.5 | 2483.6 | 2578.3 | 2711.4 | 2596.2 | 2662.7 | 2612.9 | 1866.9 |
| 50°   | 2292.9 | 2313.5 | 2376.1 | 2431.1 | 2450.3 | 2594.9 | 2806.0 | 2779.2 | 2850.8 | 2795.9 | 2020.5 |
| 52.5° | 1852.8 | 1883.5 | 2092.1 | 2280.2 | 2406.9 | 2583.4 | 2862.3 | 2962.2 | 3077.3 | 3030.0 | 2180.3 |
| 55°   | 1402.4 | 1431.8 | 1595.6 | 1976.9 | 2266.1 | 2547.6 | 2889.3 | 3076.0 | 3262.8 | 3218.1 | 2326.2 |
| 57.5° | 1187.4 | 1175.9 | 1271.9 | 1579.0 | 1997.4 | 2445.2 | 2914.8 | 3161.8 | 3466.3 | 3415.1 | 2484.9 |
| 60°   | 1009.6 | 992.9  | 1054.4 | 1227.1 | 1600.7 | 2245.6 | 2934.0 | 3215.5 | 3677.4 | 3622.4 | 2667.8 |
| 62.5° | 769.0  | 776.7  | 834.3  | 987.8  | 1287.3 | 1903.9 | 2894.4 | 3255.2 | 3928.2 | 3874.5 | 2861.1 |
| 65°   | 464.5  | 499.0  | 596.3  | 749.8  | 1012.1 | 1529.0 | 2717.8 | 3266.7 | 4168.8 | 4120.1 | 3062.0 |
| 67.5° | 227.8  | 245.7  | 313.5  | 467.1  | 735.7  | 1211.8 | 2346.7 | 3211.7 | 4409.3 | 4385.0 | 3252.7 |
| 70°   | 133.1  | 131.8  | 157.4  | 225.2  | 428.6  | 836.8  | 1843.8 | 3007.0 | 4507.9 | 4478.4 | 3293.5 |
| 72.5° | 98.5   | 103.7  | 116.4  | 134.4  | 209.8  | 533.5  | 1334.5 | 2639.7 | 4217.4 | 4162.3 | 2927.6 |
| 75°   | 69.1   | 71.6   | 89.6   | 102.3  | 124.1  | 267.4  | 840.6  | 1929.5 | 3262.8 | 3179.7 | 1959.0 |
| 77.5° | 52.5   | 55.0   | 64.0   | 84.5   | 97.2   | 130.5  | 304.5  | 1045.4 | 1637.8 | 1566.2 | 790.8  |
| 80°   | 24.3   | 25.6   | 39.7   | 55.0   | 70.4   | 76.8   | 81.9   | 314.8  | 367.2  | 322.4  | 119.0  |
| 82.5° | 15.3   | 17.9   | 23.0   | 41.0   | 49.9   | 34.5   | 33.3   | 69.1   | 61.4   | 56.3   | 28.2   |
| 85°   | 1.3    | 1.3    | 10.3   | 15.3   | 10.3   | 5.1    | 16.6   | 16.6   | 19.2   | 20.4   | 10.3   |
| 87.5° | 0.0    | 0.0    | 0.0    | 1.3    | 2.6    | 2.6    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 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°    | 568.1  | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 |
| 2.5°  | 574.5  | 552.8 | 511.8 | 472.1 | 437.6 | 401.8 | 376.2 | 368.5 | 354.5 | 344.2 | 351.9 |
| 5°    | 579.7  | 538.7 | 454.2 | 382.6 | 321.2 | 278.9 | 249.5 | 226.4 | 204.8 | 197.1 | 200.9 |
| 7.5°  | 592.4  | 527.2 | 404.3 | 313.5 | 241.9 | 189.4 | 158.6 | 140.8 | 129.3 | 124.1 | 121.5 |
| 10°   | 612.9  | 524.6 | 364.6 | 254.6 | 175.3 | 130.5 | 111.3 | 103.7 | 101.1 | 99.8  | 99.8  |
| 12.5° | 632.1  | 514.4 | 322.4 | 198.3 | 130.5 | 103.7 | 96.0  | 92.2  | 90.8  | 89.6  | 88.3  |
| 15°   | 657.7  | 511.8 | 286.7 | 154.8 | 104.9 | 93.4  | 85.7  | 81.9  | 79.3  | 78.1  | 78.1  |
| 17.5° | 678.2  | 508.0 | 247.0 | 122.9 | 94.7  | 84.5  | 76.8  | 71.6  | 69.1  | 67.8  | 66.6  |
| 20°   | 710.2  | 508.0 | 212.4 | 104.9 | 87.0  | 76.8  | 67.8  | 62.7  | 58.9  | 56.3  | 56.3  |
| 22.5° | 744.7  | 511.8 | 176.6 | 94.7  | 80.6  | 67.8  | 58.9  | 52.5  | 48.6  | 47.4  | 46.0  |
| 25°   | 781.8  | 510.5 | 145.9 | 85.7  | 71.6  | 58.9  | 49.9  | 43.5  | 41.0  | 39.7  | 39.7  |
| 27.5° | 812.5  | 502.8 | 119.0 | 78.1  | 62.7  | 49.9  | 41.0  | 35.9  | 34.5  | 33.3  | 33.3  |
| 30°   | 847.0  | 495.2 | 97.2  | 69.1  | 53.7  | 42.2  | 34.5  | 30.7  | 28.2  | 28.2  | 28.2  |
| 32.5° | 890.6  | 490.1 | 83.2  | 60.1  | 46.0  | 35.9  | 29.4  | 25.6  | 25.6  | 24.3  | 24.3  |
| 35°   | 950.7  | 483.7 | 74.2  | 52.5  | 38.4  | 29.4  | 24.3  | 21.8  | 20.4  | 21.8  | 21.8  |
| 37.5° | 1022.4 | 474.7 | 66.6  | 46.0  | 33.3  | 25.6  | 20.4  | 19.2  | 19.2  | 19.2  | 19.2  |
| 40°   | 1097.8 | 473.4 | 58.9  | 39.7  | 28.2  | 20.4  | 17.9  | 15.3  | 15.3  | 16.6  | 17.9  |
| 42.5° | 1188.7 | 468.3 | 53.7  | 35.9  | 24.3  | 17.9  | 14.1  | 12.8  | 14.1  | 15.3  | 15.3  |
| 45°   | 1271.9 | 458.1 | 48.6  | 30.7  | 21.8  | 15.3  | 12.8  | 11.5  | 11.5  | 12.8  | 14.1  |
| 47.5° | 1374.2 | 453.0 | 44.8  | 26.9  | 17.9  | 12.8  | 10.3  | 8.9   | 8.9   | 10.3  | 11.5  |
| 50°   | 1497.1 | 455.5 | 39.7  | 23.0  | 15.3  | 11.5  | 8.9   | 6.4   | 7.7   | 8.9   | 8.9   |
| 52.5° | 1607.1 | 451.7 | 35.9  | 19.2  | 12.8  | 8.9   | 6.4   | 5.1   | 5.1   | 7.7   | 7.7   |
| 55°   | 1706.9 | 447.9 | 30.7  | 16.6  | 10.3  | 7.7   | 5.1   | 3.8   | 3.8   | 6.4   | 6.4   |
| 57.5° | 1813.1 | 436.4 | 26.9  | 14.1  | 8.9   | 6.4   | 3.8   | 2.6   | 3.8   | 5.1   | 5.1   |
| 60°   | 1938.6 | 418.4 | 23.0  | 11.5  | 7.7   | 6.4   | 2.6   | 2.6   | 2.6   | 3.8   | 3.8   |
| 62.5° | 2060.1 | 396.7 | 20.4  | 11.5  | 6.4   | 5.1   | 2.6   | 1.3   | 1.3   | 2.6   | 2.6   |
| 65°   | 2199.5 | 358.3 | 17.9  | 10.3  | 6.4   | 3.8   | 2.6   | 1.3   | 1.3   | 1.3   | 1.3   |
| 67.5° | 2239.2 | 303.3 | 16.6  | 7.7   | 5.1   | 3.8   | 2.6   | 1.3   | 0.0   | 1.3   | 1.3   |
| 70°   | 2110.0 | 227.8 | 15.3  | 6.4   | 3.8   | 2.6   | 1.3   | 1.3   | 0.0   | 1.3   | 1.3   |
| 72.5° | 1686.4 | 140.8 | 12.8  | 5.1   | 3.8   | 2.6   | 1.3   | 0.0   | 0.0   | 0.0   | 1.3   |
| 75°   | 1042.8 | 61.4  | 8.9   | 3.8   | 2.6   | 2.6   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 387.7  | 32.0  | 6.4   | 3.8   | 2.6   | 1.3   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 55.0   | 14.1  | 3.8   | 2.6   | 2.6   | 1.3   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 14.1   | 6.4   | 2.6   | 2.6   | 1.3   | 1.3   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 6.4    | 3.8   | 2.6   | 2.6   | 2.6   | 1.3   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 3.8    | 3.8   | 3.8   | 2.6   | 2.6   | 1.3   | 1.3   | 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)