

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: P511316

Luminaire Tested: **PRV-P-PA1D-8540-U-T3**

Issue Date: 4/7/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511316  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-171-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/7/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-P-PA1D-8540-U-T3  
Description: PREVAIL AREA AND WALL LUMINAIRE  
(1) 85 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8726.5 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 1.04' x L: 0.58' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 93.4  
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

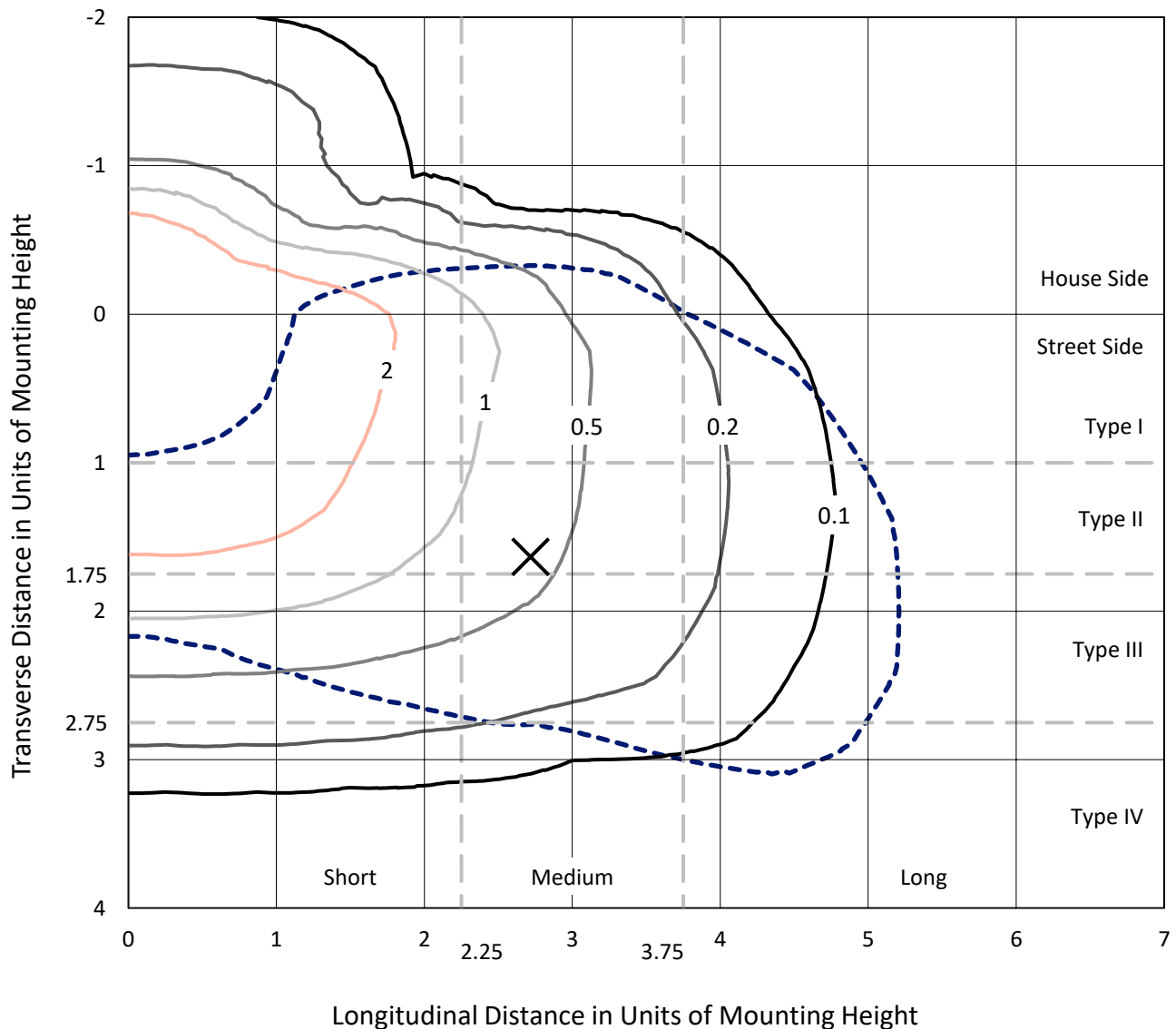


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

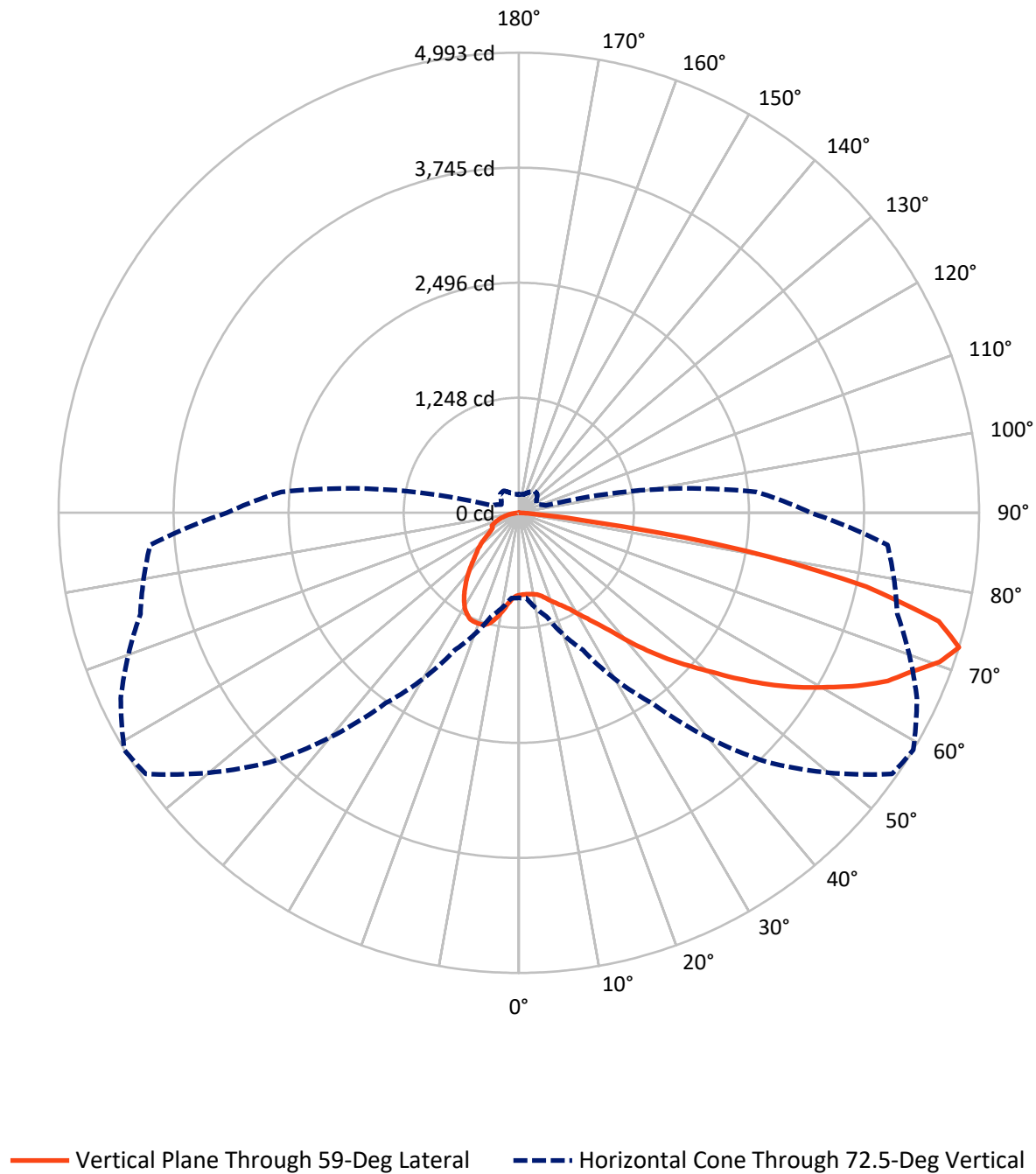


Based on 15 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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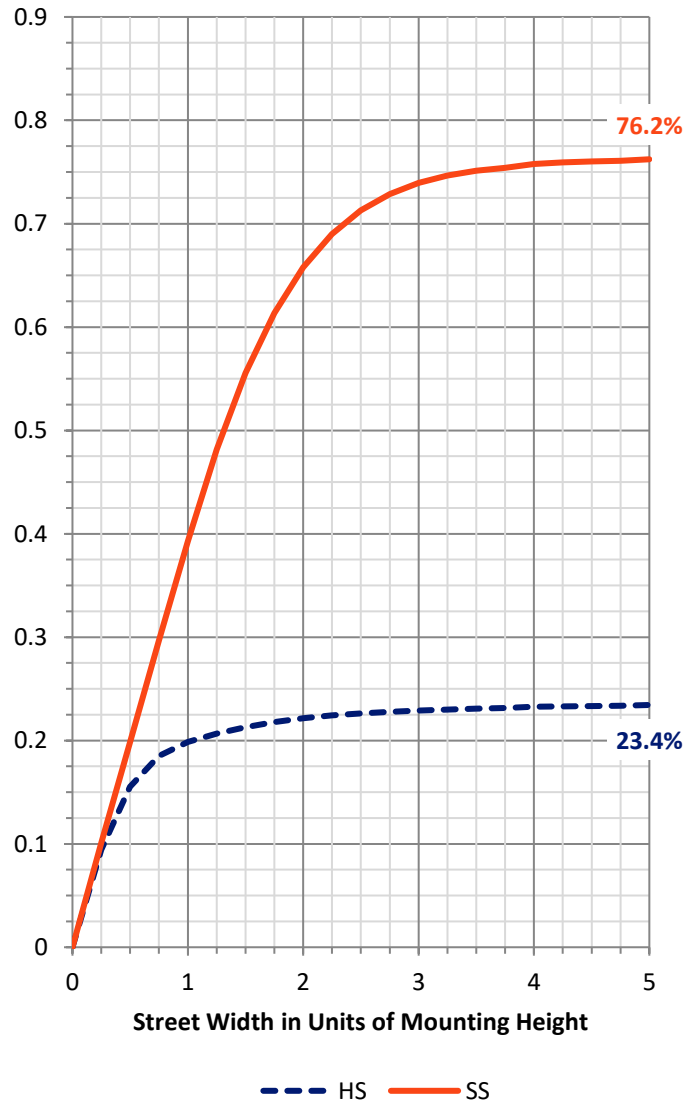
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2064.4   | 0.0    | 2064.4 |
|                    | % Fixture | 23.7     | 0.0    | 23.7   |
| <b>Street Side</b> | Lumens    | 6662.1   | 0.0    | 6662.1 |
|                    | % Fixture | 76.3     | 0.0    | 76.3   |
| <b>Total</b>       | Lumens    | 8726.5   | 0.0    | 8726.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 89.3   | 1.0       |
| 10°-20°   | 294.5  | 3.4       |
| 20°-30°   | 543.8  | 6.2       |
| 30°-40°   | 827.4  | 9.5       |
| 40°-50°   | 1246.9 | 14.3      |
| 50°-60°   | 1852.6 | 21.2      |
| 60°-70°   | 2204.8 | 25.3      |
| 70°-80°   | 1492.2 | 17.1      |
| 80°-90°   | 175.0  | 2.0       |
| 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°    | 8726.5 | 100.0     |
| 0°-180°   | 8726.5 | 100.0     |

**Coefficient of Utilization**



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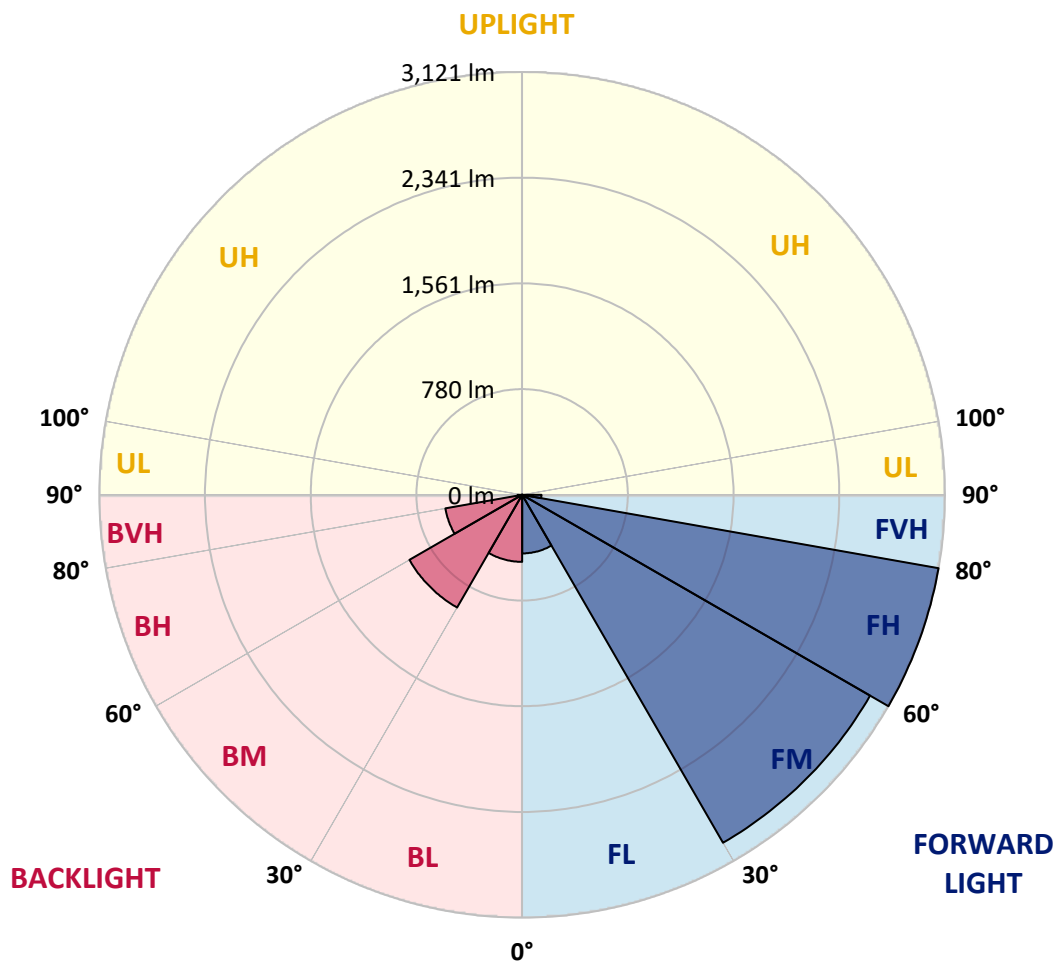
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 432.5  | 5.0       |                         |      |         |
| FM   | (30°-60°)   | 2965.9 | 34.0      |                         |      |         |
| FH   | (60°-80°)   | 3121.5 | 35.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 142.2  | 1.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 495.1  | 5.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 961.0  | 11.0      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 575.6  | 6.6       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 32.7   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 59°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 893.7  | 893.7  | 893.7  | 893.7  | 893.7  | 893.7  | 893.7  | 893.7  | 893.7  | 893.7  | 893.7  |
| 2.5°  | 883.9  | 887.8  | 885.8  | 885.8  | 887.8  | 887.8  | 891.7  | 887.8  | 893.7  | 891.7  | 889.7  |
| 5°    | 848.5  | 846.5  | 850.5  | 856.4  | 864.2  | 878.0  | 885.8  | 887.8  | 891.7  | 897.6  | 897.6  |
| 7.5°  | 781.7  | 783.7  | 791.5  | 805.3  | 826.9  | 858.3  | 889.7  | 891.7  | 903.5  | 917.3  | 925.1  |
| 10°   | 766.0  | 768.0  | 771.9  | 791.5  | 813.1  | 848.5  | 889.7  | 899.6  | 921.2  | 942.8  | 962.4  |
| 12.5° | 758.2  | 762.1  | 766.0  | 789.6  | 821.0  | 856.4  | 899.6  | 911.3  | 942.8  | 978.1  | 1007.6 |
| 15°   | 764.1  | 766.0  | 771.9  | 791.5  | 825.0  | 872.1  | 919.2  | 938.8  | 970.3  | 1015.5 | 1052.7 |
| 17.5° | 787.6  | 787.6  | 783.7  | 801.4  | 830.8  | 889.7  | 950.6  | 978.1  | 1011.6 | 1058.7 | 1105.8 |
| 20°   | 844.5  | 844.5  | 836.7  | 826.9  | 846.5  | 905.5  | 989.9  | 1025.3 | 1064.6 | 1113.7 | 1158.8 |
| 22.5° | 962.4  | 960.4  | 936.9  | 901.5  | 893.7  | 934.9  | 1031.1 | 1070.4 | 1123.4 | 1174.6 | 1213.8 |
| 25°   | 1135.3 | 1135.3 | 1094.0 | 1035.1 | 993.9  | 989.9  | 1074.4 | 1123.4 | 1190.2 | 1239.3 | 1264.9 |
| 27.5° | 1333.6 | 1325.8 | 1270.8 | 1204.0 | 1125.4 | 1082.3 | 1141.1 | 1186.3 | 1262.9 | 1312.1 | 1317.9 |
| 30°   | 1488.8 | 1496.6 | 1445.6 | 1353.3 | 1260.9 | 1204.0 | 1225.6 | 1274.7 | 1357.2 | 1394.5 | 1380.8 |
| 32.5° | 1679.3 | 1659.7 | 1616.5 | 1530.1 | 1424.0 | 1343.5 | 1339.6 | 1369.0 | 1439.7 | 1484.9 | 1447.5 |
| 35°   | 1807.0 | 1801.1 | 1771.6 | 1695.0 | 1583.1 | 1498.7 | 1455.4 | 1488.8 | 1555.6 | 1577.2 | 1532.0 |
| 37.5° | 1940.6 | 1944.5 | 1924.8 | 1854.1 | 1759.9 | 1645.9 | 1614.5 | 1632.2 | 1700.9 | 1712.7 | 1653.8 |
| 40°   | 2123.2 | 2127.2 | 2115.4 | 2044.6 | 1928.8 | 1842.3 | 1814.8 | 1832.5 | 1895.4 | 1893.5 | 1805.0 |
| 42.5° | 2353.0 | 2355.0 | 2360.9 | 2254.8 | 2131.1 | 2046.6 | 2028.9 | 2040.7 | 2111.4 | 2087.9 | 1993.6 |
| 45°   | 2649.6 | 2635.9 | 2641.8 | 2539.6 | 2390.3 | 2298.0 | 2268.6 | 2260.7 | 2309.8 | 2309.8 | 2207.7 |
| 47.5° | 2875.5 | 2885.3 | 2899.1 | 2828.4 | 2700.6 | 2622.1 | 2508.2 | 2478.7 | 2523.9 | 2537.6 | 2433.6 |
| 50°   | 3073.8 | 3103.3 | 3095.4 | 3113.1 | 3009.1 | 2977.6 | 2777.3 | 2714.4 | 2771.4 | 2779.3 | 2681.1 |
| 52.5° | 3201.5 | 3256.5 | 3266.4 | 3333.2 | 3360.6 | 3401.9 | 3052.3 | 2997.2 | 3020.8 | 3022.8 | 2942.3 |
| 55°   | 3199.6 | 3244.8 | 3356.7 | 3509.9 | 3653.2 | 3761.3 | 3348.8 | 3286.0 | 3284.1 | 3284.1 | 3229.0 |
| 57.5° | 3142.6 | 3172.1 | 3380.3 | 3576.7 | 3851.7 | 4024.5 | 3651.3 | 3570.8 | 3537.4 | 3541.4 | 3535.4 |
| 60°   | 2985.5 | 3036.6 | 3325.2 | 3594.4 | 4004.9 | 4201.3 | 3896.8 | 3843.8 | 3814.3 | 3753.5 | 3898.8 |
| 62.5° | 2838.1 | 2853.9 | 3121.0 | 3549.2 | 4030.4 | 4277.8 | 4181.6 | 4132.5 | 4099.2 | 3979.3 | 4191.5 |
| 65°   | 2529.8 | 2539.6 | 2793.0 | 3303.6 | 3936.1 | 4326.9 | 4425.2 | 4397.7 | 4326.9 | 4187.5 | 4433.0 |
| 67.5° | 2095.7 | 2127.2 | 2339.3 | 2928.5 | 3684.7 | 4348.5 | 4617.7 | 4598.0 | 4509.6 | 4279.8 | 4541.1 |
| 70°   | 1547.8 | 1573.3 | 1834.5 | 2358.9 | 3250.6 | 4234.6 | 4865.2 | 4843.6 | 4662.8 | 4323.0 | 4415.3 |
| 72.5° | 923.2  | 929.0  | 1164.7 | 1642.0 | 2522.0 | 3832.0 | 4941.7 | 4992.8 | 4764.9 | 4250.4 | 4014.7 |
| 75°   | 377.1  | 353.5  | 459.6  | 789.6  | 1541.8 | 2834.2 | 4586.3 | 4704.1 | 4651.0 | 3983.3 | 3315.5 |
| 77.5° | 176.8  | 174.8  | 233.7  | 406.6  | 652.1  | 1459.4 | 3696.5 | 3853.6 | 3942.0 | 3425.5 | 2516.0 |
| 80°   | 100.1  | 102.1  | 133.6  | 206.2  | 373.2  | 390.9  | 2203.8 | 2490.5 | 2531.8 | 2186.1 | 1447.5 |
| 82.5° | 82.5   | 82.5   | 90.4   | 113.9  | 210.2  | 174.8  | 400.7  | 791.5  | 1125.4 | 991.9  | 522.5  |
| 85°   | 31.4   | 33.4   | 39.3   | 47.1   | 98.2   | 66.8   | 86.4   | 119.8  | 200.4  | 278.9  | 47.1   |
| 87.5° | 2.0    | 2.0    | 2.0    | 3.9    | 3.9    | 5.9    | 7.8    | 9.8    | 7.8    | 9.8    | 7.8    |
| 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°    | 893.7  | 893.7  | 893.7  | 893.7  | 893.7  | 893.7  | 893.7  | 893.7  | 893.7  | 893.7  | 893.7  |
| 2.5°  | 895.7  | 897.6  | 899.6  | 901.5  | 905.5  | 911.3  | 915.2  | 915.2  | 919.2  | 925.1  | 927.1  |
| 5°    | 901.5  | 907.4  | 915.2  | 927.1  | 942.8  | 958.5  | 976.2  | 986.0  | 993.9  | 1001.7 | 1001.7 |
| 7.5°  | 929.0  | 936.9  | 958.5  | 982.0  | 1013.5 | 1039.0 | 1054.7 | 1074.4 | 1084.2 | 1092.1 | 1092.1 |
| 10°   | 976.2  | 984.0  | 1023.3 | 1064.6 | 1099.9 | 1129.4 | 1137.2 | 1143.1 | 1151.0 | 1158.8 | 1149.1 |
| 12.5° | 1019.4 | 1046.9 | 1092.1 | 1137.2 | 1184.4 | 1194.2 | 1182.4 | 1151.0 | 1135.3 | 1133.3 | 1125.4 |
| 15°   | 1070.4 | 1103.9 | 1166.7 | 1211.8 | 1249.2 | 1217.7 | 1153.0 | 1145.1 | 1153.0 | 1168.6 | 1170.6 |
| 17.5° | 1129.4 | 1154.9 | 1227.6 | 1282.6 | 1264.9 | 1194.2 | 1192.2 | 1192.2 | 1196.2 | 1198.1 | 1192.2 |
| 20°   | 1176.5 | 1219.8 | 1298.3 | 1329.7 | 1245.3 | 1219.8 | 1206.0 | 1190.2 | 1184.4 | 1184.4 | 1182.4 |
| 22.5° | 1233.5 | 1268.9 | 1353.3 | 1333.6 | 1241.3 | 1217.7 | 1184.4 | 1164.7 | 1164.7 | 1174.6 | 1170.6 |
| 25°   | 1282.6 | 1333.6 | 1408.3 | 1317.9 | 1239.3 | 1184.4 | 1147.0 | 1139.2 | 1143.1 | 1158.8 | 1154.9 |
| 27.5° | 1331.6 | 1390.6 | 1439.7 | 1298.3 | 1194.2 | 1125.4 | 1101.8 | 1099.9 | 1080.3 | 1084.2 | 1080.3 |
| 30°   | 1398.4 | 1445.6 | 1441.7 | 1290.5 | 1123.4 | 1066.5 | 1043.0 | 986.0  | 956.5  | 972.3  | 972.3  |
| 32.5° | 1453.5 | 1504.5 | 1425.9 | 1229.5 | 1046.9 | 1009.6 | 919.2  | 862.2  | 852.5  | 862.2  | 874.1  |
| 35°   | 1537.9 | 1581.1 | 1416.1 | 1147.0 | 968.3  | 901.5  | 791.5  | 754.3  | 744.4  | 750.3  | 756.2  |
| 37.5° | 1657.7 | 1673.4 | 1453.5 | 1043.0 | 897.6  | 764.1  | 685.5  | 658.0  | 632.4  | 608.9  | 616.8  |
| 40°   | 1809.0 | 1791.3 | 1496.6 | 964.4  | 801.4  | 650.1  | 606.9  | 573.5  | 526.4  | 491.0  | 489.1  |
| 42.5° | 1975.9 | 1901.3 | 1500.6 | 897.6  | 691.4  | 573.5  | 534.2  | 493.0  | 443.9  | 404.6  | 400.7  |
| 45°   | 2170.4 | 2046.6 | 1469.1 | 838.7  | 585.3  | 520.5  | 477.3  | 428.1  | 381.0  | 349.6  | 351.6  |
| 47.5° | 2400.1 | 2197.9 | 1425.9 | 771.9  | 520.5  | 471.4  | 422.3  | 379.1  | 341.8  | 316.3  | 318.2  |
| 50°   | 2647.6 | 2343.2 | 1376.8 | 693.3  | 467.5  | 422.3  | 379.1  | 343.7  | 314.3  | 296.6  | 294.6  |
| 52.5° | 2914.8 | 2508.2 | 1355.2 | 595.2  | 420.3  | 387.0  | 349.6  | 324.1  | 296.6  | 271.1  | 265.1  |
| 55°   | 3205.4 | 2663.4 | 1369.0 | 479.3  | 375.1  | 355.5  | 333.9  | 302.5  | 302.5  | 294.6  | 288.7  |
| 57.5° | 3468.6 | 2814.6 | 1422.0 | 404.6  | 339.8  | 343.7  | 330.0  | 363.4  | 373.2  | 361.4  | 355.5  |
| 60°   | 3712.2 | 2969.8 | 1420.0 | 349.6  | 322.1  | 373.2  | 416.4  | 404.6  | 347.7  | 324.1  | 316.3  |
| 62.5° | 3879.1 | 3101.4 | 1259.0 | 310.3  | 335.8  | 445.8  | 428.1  | 359.4  | 308.3  | 298.6  | 292.7  |
| 65°   | 3985.2 | 3160.3 | 944.8  | 288.7  | 347.7  | 420.3  | 383.0  | 320.2  | 284.8  | 286.7  | 284.8  |
| 67.5° | 3938.1 | 3115.1 | 642.3  | 259.3  | 308.3  | 361.4  | 347.7  | 294.6  | 259.3  | 275.0  | 269.1  |
| 70°   | 3674.9 | 2948.2 | 422.3  | 235.7  | 273.0  | 324.1  | 320.2  | 267.2  | 235.7  | 241.6  | 233.7  |
| 72.5° | 3164.2 | 2586.7 | 304.4  | 208.2  | 231.8  | 282.8  | 290.7  | 241.6  | 206.2  | 202.3  | 196.4  |
| 75°   | 2531.8 | 1995.6 | 223.9  | 180.7  | 192.5  | 237.6  | 255.3  | 212.1  | 180.7  | 170.9  | 166.9  |
| 77.5° | 1820.7 | 1292.4 | 170.9  | 149.2  | 155.2  | 194.4  | 222.0  | 176.8  | 145.3  | 133.6  | 129.7  |
| 80°   | 1005.6 | 626.6  | 127.7  | 115.9  | 112.0  | 145.3  | 163.0  | 147.3  | 112.0  | 104.1  | 100.1  |
| 82.5° | 351.6  | 186.6  | 88.4   | 74.6   | 70.7   | 102.1  | 117.8  | 108.1  | 76.6   | 64.8   | 66.8   |
| 85°   | 41.3   | 53.0   | 37.3   | 35.4   | 31.4   | 41.3   | 53.0   | 41.3   | 23.6   | 21.6   | 21.6   |
| 87.5° | 5.9    | 5.9    | 5.9    | 3.9    | 3.9    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 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)