

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: STREETWORKS

Report Number: P269861

Luminaire Tested: **GAP-AF-02-LED-U-RW-7027**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P269861  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAP-AF-02-LED-U-RW-7027  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 11031.8 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 113  
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

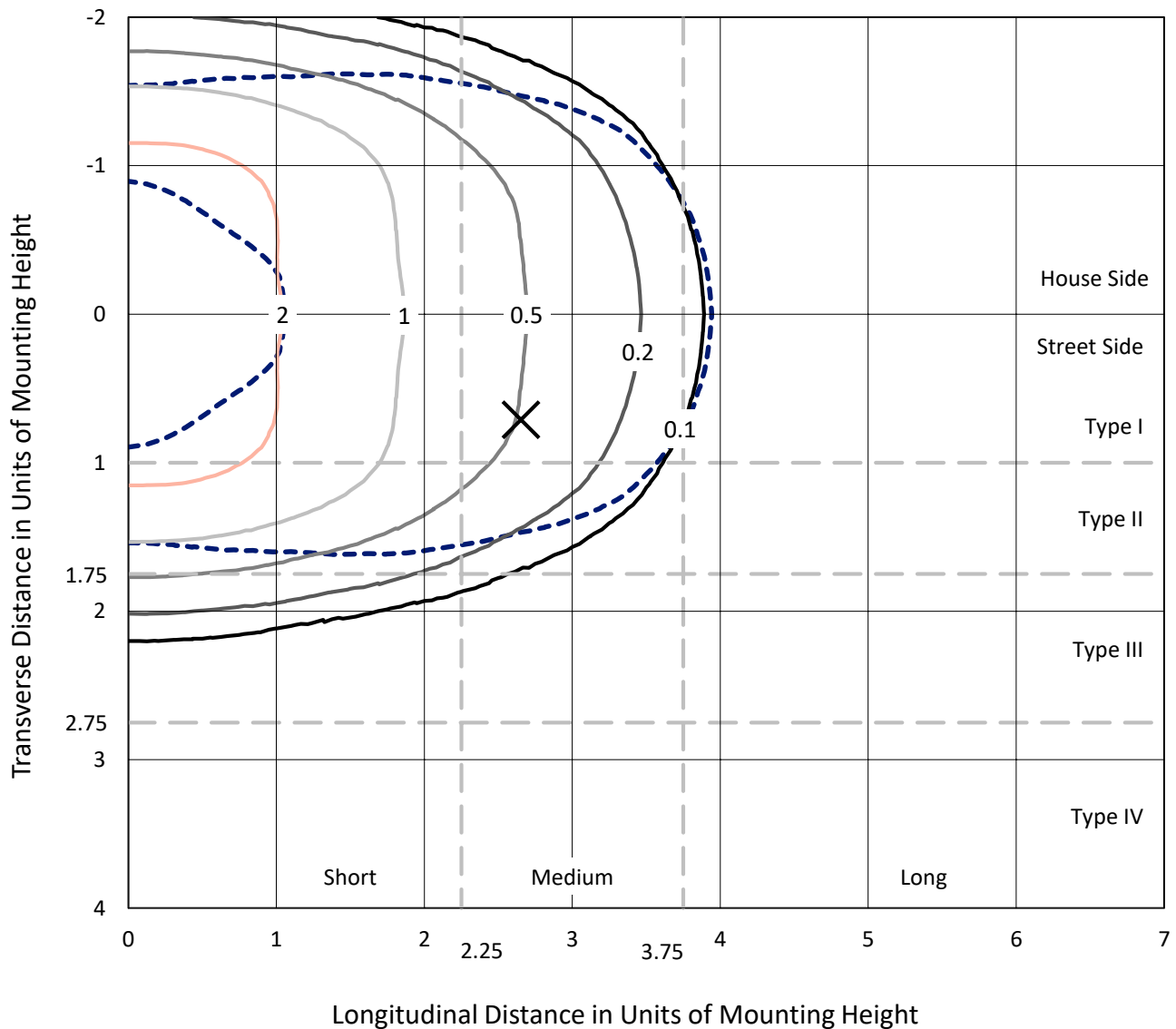


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

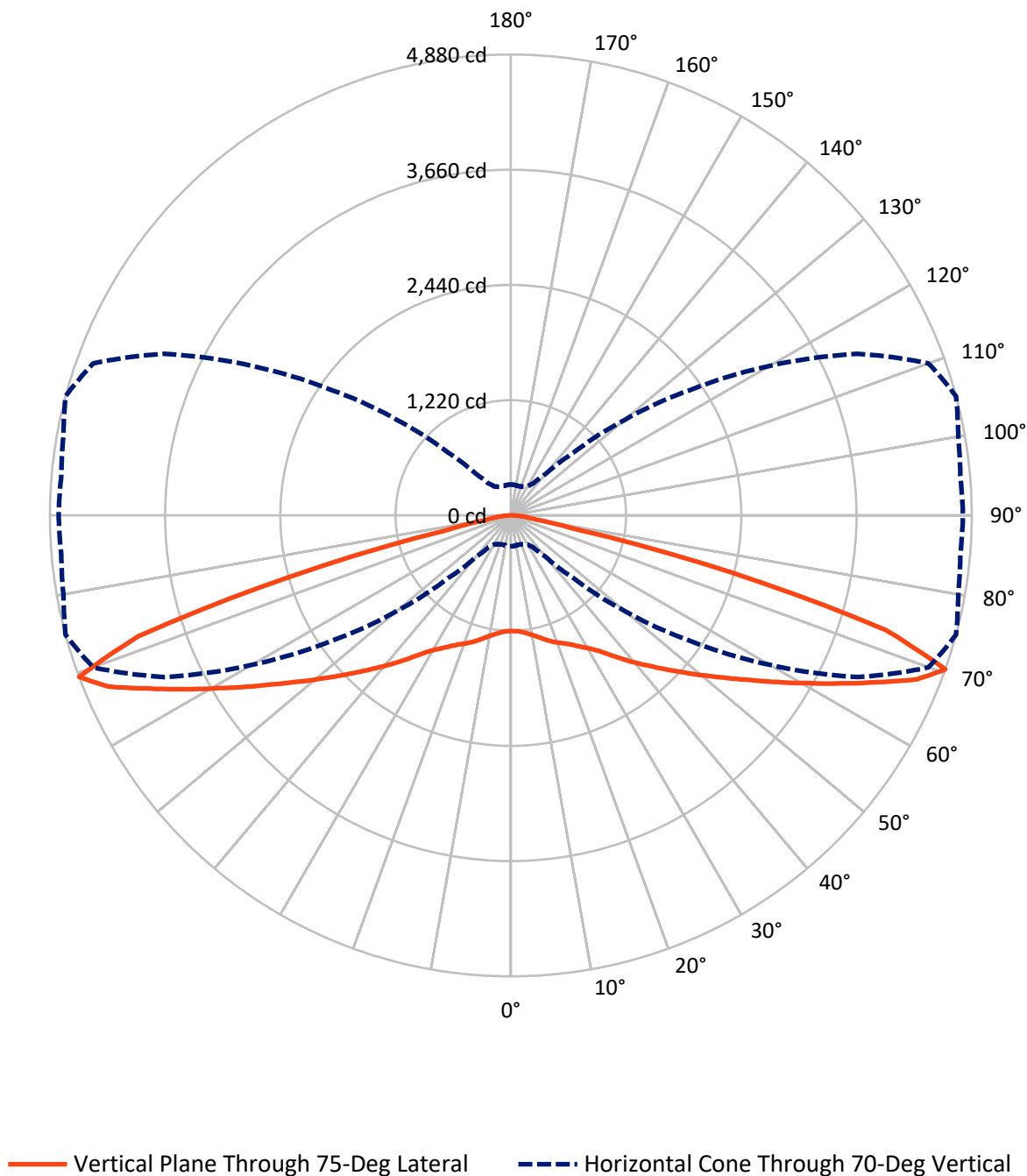


Based on 20 foot mounting height. Maximum calculated value = 3.1 fc  
 Type V - Medium - Full Cutoff

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## Luminous Intensity Polar Plot



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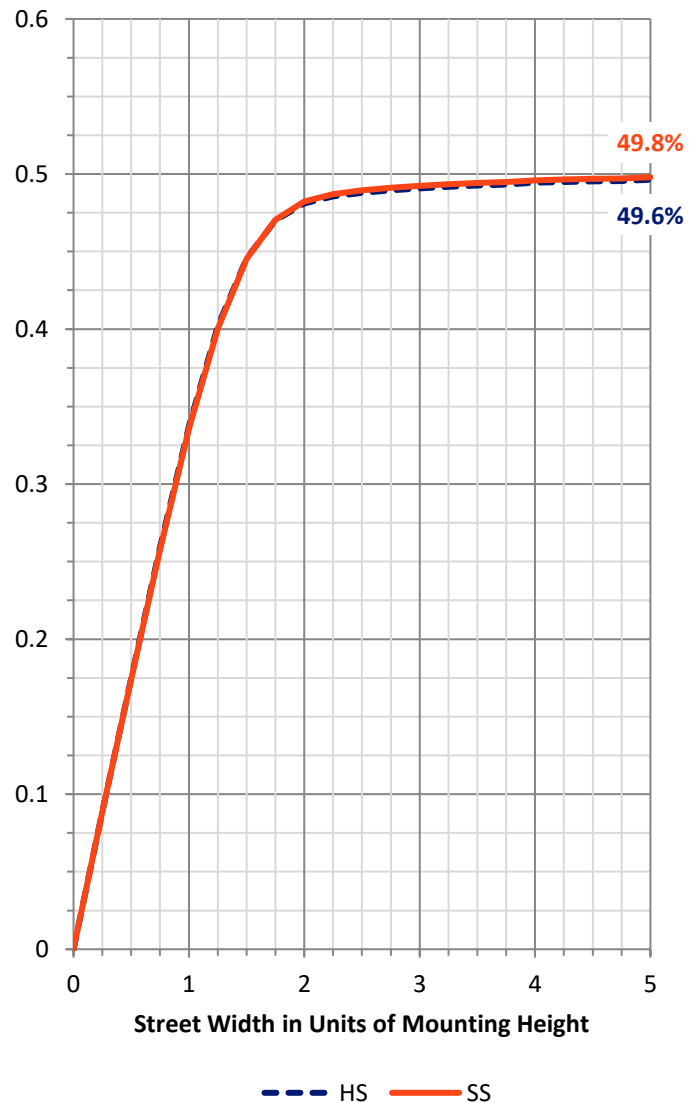
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5515.9   | 0.0    | 5515.9  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5515.9   | 0.0    | 5515.9  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 11031.8  | 0.0    | 11031.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 117.4   | 1.1       |
| 10°-20°   | 364.7   | 3.3       |
| 20°-30°   | 686.3   | 6.2       |
| 30°-40°   | 1215.4  | 11.0      |
| 40°-50°   | 2032.5  | 18.4      |
| 50°-60°   | 2832.3  | 25.7      |
| 60°-70°   | 2626.5  | 23.8      |
| 70°-80°   | 1046.7  | 9.5       |
| 80°-90°   | 110.0   | 1.0       |
| 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°    | 11031.8 | 100.0     |
| 0°-180°   | 11031.8 | 100.0     |

**Coefficient of Utilization**



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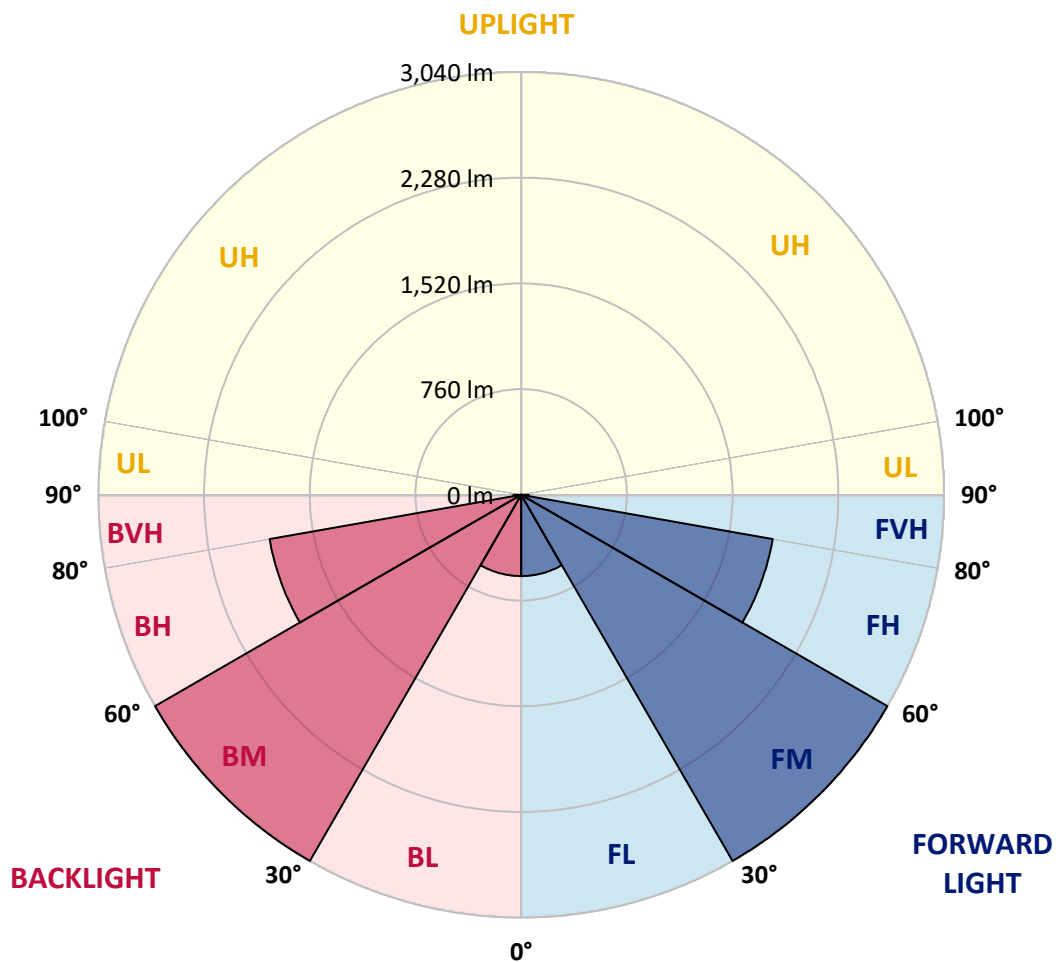
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 584.2  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 3040.1 | 27.6      |                         |      |         |
| FH   | (60°-80°)   | 1836.6 | 16.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 55.0   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 584.2  | 5.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3040.1 | 27.6      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1836.6 | 16.6      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 55.0   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1223.8 | 1223.8 | 1223.8 | 1223.8 | 1223.8 | 1223.8 | 1223.8 | 1223.8 | 1223.8 | 1223.8 | 1223.8 |
| 2.5°  | 1221.7 | 1220.5 | 1221.7 | 1221.1 | 1222.1 | 1222.1 | 1223.1 | 1225.3 | 1225.3 | 1226.8 | 1226.2 |
| 5°    | 1209.6 | 1209.1 | 1210.6 | 1212.3 | 1213.8 | 1216.9 | 1220.1 | 1224.7 | 1228.4 | 1230.9 | 1233.6 |
| 7.5°  | 1186.1 | 1186.1 | 1188.3 | 1192.0 | 1195.6 | 1202.3 | 1209.6 | 1219.0 | 1228.4 | 1236.2 | 1243.0 |
| 10°   | 1166.9 | 1167.8 | 1170.5 | 1176.8 | 1183.0 | 1193.5 | 1203.4 | 1216.9 | 1230.0 | 1243.0 | 1253.5 |
| 12.5° | 1155.4 | 1156.9 | 1161.7 | 1171.0 | 1181.5 | 1195.6 | 1210.6 | 1227.9 | 1242.4 | 1258.0 | 1268.5 |
| 15°   | 1159.1 | 1160.2 | 1166.9 | 1178.3 | 1192.0 | 1209.6 | 1230.0 | 1250.4 | 1267.5 | 1284.1 | 1298.2 |
| 17.5° | 1179.4 | 1180.9 | 1188.7 | 1201.8 | 1215.9 | 1236.7 | 1258.6 | 1281.5 | 1302.9 | 1321.6 | 1339.0 |
| 20°   | 1215.9 | 1217.5 | 1227.4 | 1241.4 | 1258.0 | 1279.5 | 1301.4 | 1325.4 | 1349.3 | 1369.1 | 1388.4 |
| 22.5° | 1267.5 | 1270.2 | 1279.5 | 1293.6 | 1312.3 | 1335.3 | 1361.3 | 1387.0 | 1409.8 | 1428.0 | 1445.3 |
| 25°   | 1335.3 | 1341.0 | 1349.9 | 1365.6 | 1385.4 | 1406.1 | 1434.4 | 1460.5 | 1482.4 | 1499.5 | 1511.9 |
| 27.5° | 1431.2 | 1439.1 | 1445.8 | 1461.0 | 1480.1 | 1500.0 | 1528.1 | 1551.2 | 1571.9 | 1588.7 | 1598.1 |
| 30°   | 1558.4 | 1566.3 | 1573.0 | 1587.7 | 1605.4 | 1624.1 | 1650.6 | 1671.0 | 1684.1 | 1697.1 | 1696.5 |
| 32.5° | 1712.8 | 1721.2 | 1723.7 | 1739.4 | 1757.5 | 1777.9 | 1801.9 | 1813.4 | 1823.7 | 1825.4 | 1816.0 |
| 35°   | 1885.4 | 1889.4 | 1899.9 | 1920.8 | 1941.6 | 1958.3 | 1981.2 | 1987.1 | 1987.1 | 1979.1 | 1958.3 |
| 37.5° | 2074.5 | 2077.2 | 2091.9 | 2115.2 | 2136.6 | 2153.9 | 2169.4 | 2180.9 | 2175.2 | 2158.5 | 2123.7 |
| 40°   | 2282.1 | 2286.7 | 2307.7 | 2328.4 | 2352.5 | 2368.7 | 2385.3 | 2387.4 | 2381.6 | 2357.2 | 2309.7 |
| 42.5° | 2480.2 | 2484.4 | 2505.3 | 2538.2 | 2569.4 | 2591.8 | 2607.4 | 2610.6 | 2592.2 | 2570.0 | 2511.0 |
| 45°   | 2650.7 | 2661.7 | 2688.7 | 2727.3 | 2772.7 | 2804.5 | 2825.9 | 2834.8 | 2818.6 | 2789.3 | 2721.1 |
| 47.5° | 2785.7 | 2796.8 | 2835.3 | 2881.1 | 2937.5 | 2989.1 | 3024.6 | 3043.3 | 3039.1 | 3017.2 | 2942.7 |
| 50°   | 2884.8 | 2895.2 | 2937.0 | 2993.2 | 3059.0 | 3123.0 | 3183.6 | 3228.4 | 3244.0 | 3234.2 | 3165.8 |
| 52.5° | 2896.2 | 2913.6 | 2962.5 | 3038.1 | 3123.6 | 3211.3 | 3297.1 | 3373.3 | 3425.0 | 3432.9 | 3382.2 |
| 55°   | 2736.2 | 2753.5 | 2821.1 | 2933.3 | 3060.5 | 3203.4 | 3341.1 | 3469.3 | 3570.9 | 3623.1 | 3596.5 |
| 57.5° | 2358.7 | 2389.5 | 2460.9 | 2592.2 | 2779.4 | 2993.2 | 3212.8 | 3440.6 | 3647.6 | 3785.7 | 3812.3 |
| 60°   | 1807.6 | 1844.1 | 1916.1 | 2055.9 | 2264.4 | 2519.3 | 2812.4 | 3149.2 | 3514.7 | 3825.4 | 4011.0 |
| 62.5° | 1159.5 | 1193.9 | 1269.6 | 1391.0 | 1561.1 | 1837.4 | 2151.8 | 2551.6 | 3042.7 | 3533.5 | 3975.5 |
| 65°   | 595.9  | 614.7  | 654.3  | 727.8  | 860.2  | 1066.7 | 1348.8 | 1747.7 | 2309.3 | 2914.6 | 3553.8 |
| 67.5° | 377.5  | 381.2  | 390.0  | 400.5  | 434.3  | 505.7  | 637.2  | 885.8  | 1347.7 | 1979.1 | 2727.3 |
| 70°   | 326.4  | 326.4  | 322.2  | 320.6  | 324.8  | 334.7  | 355.1  | 413.0  | 568.8  | 939.5  | 1573.0 |
| 72.5° | 298.7  | 295.6  | 288.4  | 282.5  | 281.6  | 281.6  | 285.8  | 294.6  | 319.5  | 382.7  | 615.8  |
| 75°   | 275.3  | 266.4  | 256.6  | 249.8  | 247.2  | 244.5  | 244.0  | 245.5  | 250.7  | 260.7  | 294.0  |
| 77.5° | 246.7  | 235.1  | 223.7  | 216.9  | 213.7  | 210.2  | 207.0  | 203.3  | 200.7  | 203.8  | 218.5  |
| 80°   | 212.2  | 199.2  | 190.4  | 186.0  | 183.1  | 177.8  | 170.9  | 164.7  | 159.0  | 158.0  | 166.8  |
| 82.5° | 170.9  | 155.9  | 156.5  | 158.0  | 152.3  | 144.9  | 137.6  | 130.9  | 120.9  | 115.7  | 120.9  |
| 85°   | 138.2  | 130.3  | 126.8  | 136.6  | 128.3  | 117.3  | 105.8  | 93.9   | 78.2   | 65.7   | 71.4   |
| 87.5° | 53.7   | 53.7   | 80.3   | 123.5  | 111.1  | 90.6   | 77.8   | 66.3   | 41.2   | 31.8   | 32.2   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1223.8 | 1223.8 | 1223.8 | 1223.8 | 1223.8 | 1223.8 | 1223.8 | 1223.8 |
| 2.5°  | 1225.7 | 1226.8 | 1226.2 | 1225.7 | 1225.7 | 1225.3 | 1225.7 | 1225.7 |
| 5°    | 1235.2 | 1237.8 | 1237.8 | 1238.9 | 1238.9 | 1239.3 | 1239.8 | 1239.3 |
| 7.5°  | 1249.3 | 1253.9 | 1257.1 | 1260.7 | 1261.2 | 1261.8 | 1262.7 | 1261.8 |
| 10°   | 1263.3 | 1272.7 | 1279.5 | 1286.3 | 1289.3 | 1290.4 | 1291.5 | 1291.5 |
| 12.5° | 1281.1 | 1294.1 | 1306.0 | 1318.1 | 1323.8 | 1326.9 | 1326.9 | 1329.0 |
| 15°   | 1310.3 | 1323.3 | 1337.3 | 1353.6 | 1363.4 | 1368.7 | 1370.3 | 1370.3 |
| 17.5° | 1351.4 | 1362.9 | 1374.9 | 1390.5 | 1403.1 | 1409.8 | 1411.3 | 1410.9 |
| 20°   | 1399.4 | 1410.3 | 1417.2 | 1427.0 | 1437.9 | 1445.8 | 1447.9 | 1447.9 |
| 22.5° | 1454.1 | 1460.5 | 1461.5 | 1464.5 | 1473.4 | 1483.9 | 1488.5 | 1489.6 |
| 25°   | 1514.6 | 1516.2 | 1511.9 | 1511.9 | 1517.7 | 1527.7 | 1532.4 | 1532.9 |
| 27.5° | 1592.9 | 1585.0 | 1574.5 | 1571.0 | 1574.5 | 1586.0 | 1591.7 | 1593.9 |
| 30°   | 1690.3 | 1671.6 | 1647.6 | 1634.6 | 1632.5 | 1647.6 | 1658.0 | 1659.6 |
| 32.5° | 1801.9 | 1774.8 | 1743.0 | 1716.4 | 1709.7 | 1718.9 | 1731.6 | 1731.0 |
| 35°   | 1934.3 | 1902.0 | 1863.4 | 1829.6 | 1813.9 | 1823.3 | 1840.9 | 1843.1 |
| 37.5° | 2087.1 | 2044.9 | 2000.5 | 1957.8 | 1933.3 | 1935.8 | 1954.7 | 1960.9 |
| 40°   | 2257.6 | 2202.9 | 2147.0 | 2089.6 | 2054.8 | 2048.0 | 2071.0 | 2074.5 |
| 42.5° | 2440.1 | 2369.6 | 2299.3 | 2228.3 | 2183.6 | 2173.1 | 2199.7 | 2198.2 |
| 45°   | 2634.5 | 2544.9 | 2462.6 | 2384.3 | 2331.1 | 2315.6 | 2337.4 | 2337.4 |
| 47.5° | 2843.7 | 2733.2 | 2635.1 | 2546.4 | 2488.6 | 2466.1 | 2487.0 | 2488.6 |
| 50°   | 3065.2 | 2947.9 | 2832.6 | 2734.1 | 2664.8 | 2636.2 | 2663.3 | 2667.3 |
| 52.5° | 3285.8 | 3171.6 | 3055.3 | 2942.7 | 2858.8 | 2823.8 | 2855.2 | 2868.6 |
| 55°   | 3509.5 | 3397.3 | 3286.3 | 3176.2 | 3076.7 | 3035.6 | 3068.9 | 3086.0 |
| 57.5° | 3745.7 | 3641.9 | 3536.0 | 3425.0 | 3329.1 | 3264.9 | 3300.4 | 3323.3 |
| 60°   | 4022.5 | 3933.9 | 3823.8 | 3701.2 | 3604.3 | 3539.1 | 3559.5 | 3579.8 |
| 62.5° | 4241.4 | 4275.9 | 4182.6 | 4040.8 | 3916.2 | 3832.7 | 3852.6 | 3873.9 |
| 65°   | 4135.6 | 4488.7 | 4571.6 | 4428.1 | 4255.5 | 4125.7 | 4117.4 | 4128.3 |
| 67.5° | 3456.8 | 4142.4 | 4642.4 | 4779.1 | 4634.5 | 4454.2 | 4420.7 | 4437.0 |
| 70°   | 2312.3 | 3166.3 | 4048.5 | 4705.5 | 4880.1 | 4810.3 | 4777.5 | 4787.3 |
| 72.5° | 1110.6 | 1844.1 | 2746.7 | 3620.0 | 4151.7 | 4395.8 | 4474.0 | 4512.0 |
| 75°   | 406.2  | 731.9  | 1323.8 | 1994.9 | 2408.3 | 2787.8 | 3035.6 | 3136.6 |
| 77.5° | 245.1  | 295.6  | 422.8  | 636.5  | 721.1  | 807.0  | 773.7  | 790.4  |
| 80°   | 181.5  | 205.0  | 232.0  | 260.7  | 270.1  | 270.1  | 259.6  | 251.3  |
| 82.5° | 127.2  | 142.3  | 155.3  | 170.9  | 175.2  | 167.4  | 137.6  | 109.6  |
| 85°   | 81.8   | 88.7   | 94.4   | 104.3  | 101.7  | 96.9   | 65.1   | 57.9   |
| 87.5° | 37.5   | 42.8   | 44.8   | 49.5   | 47.4   | 45.4   | 32.2   | 27.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)