

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: P193341

Luminaire Tested: **GAN-AF-03-LED-U-5MQ-8030-800**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P193341  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-03-LED-U-5MQ-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 12586 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 124  
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

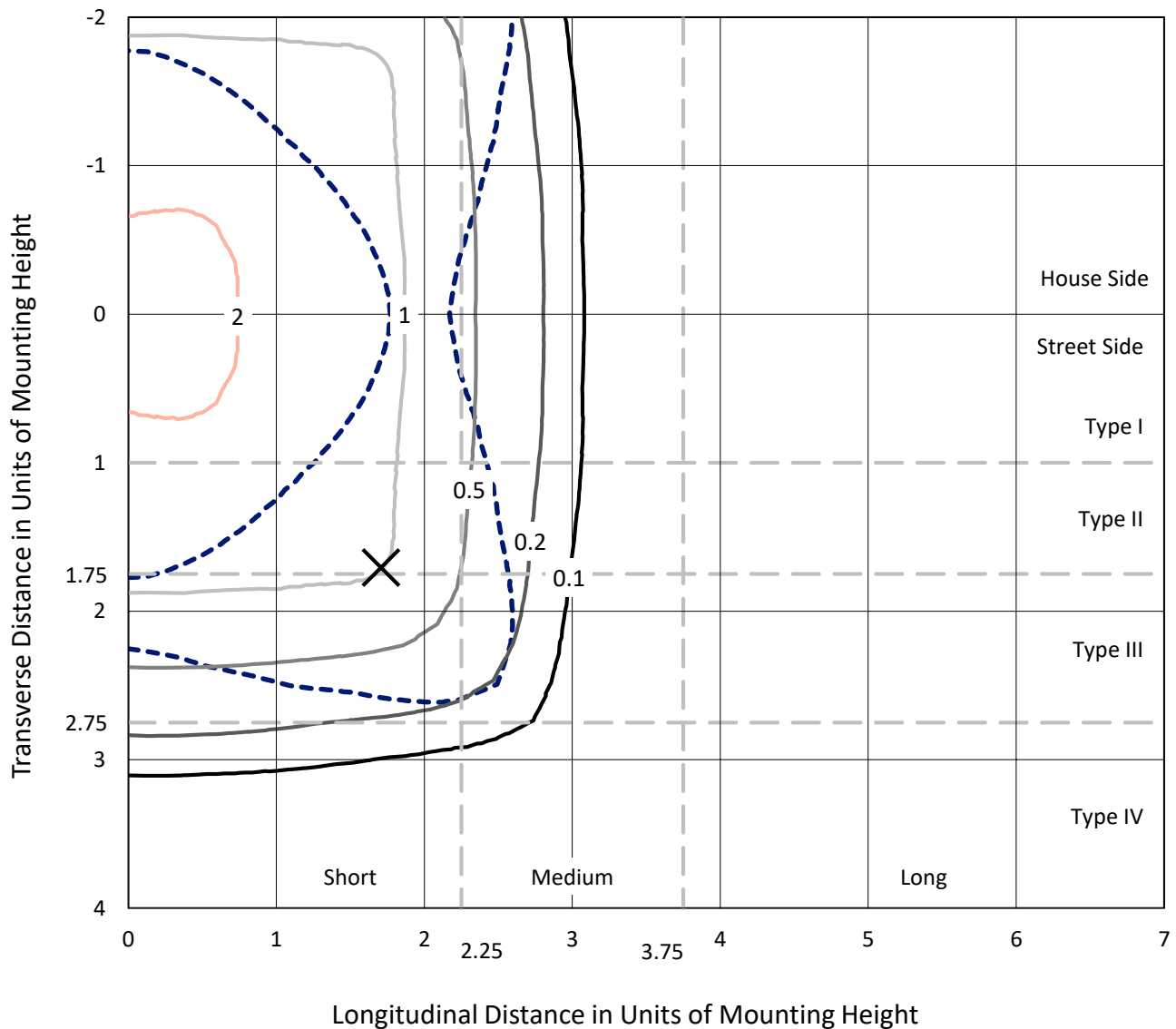


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

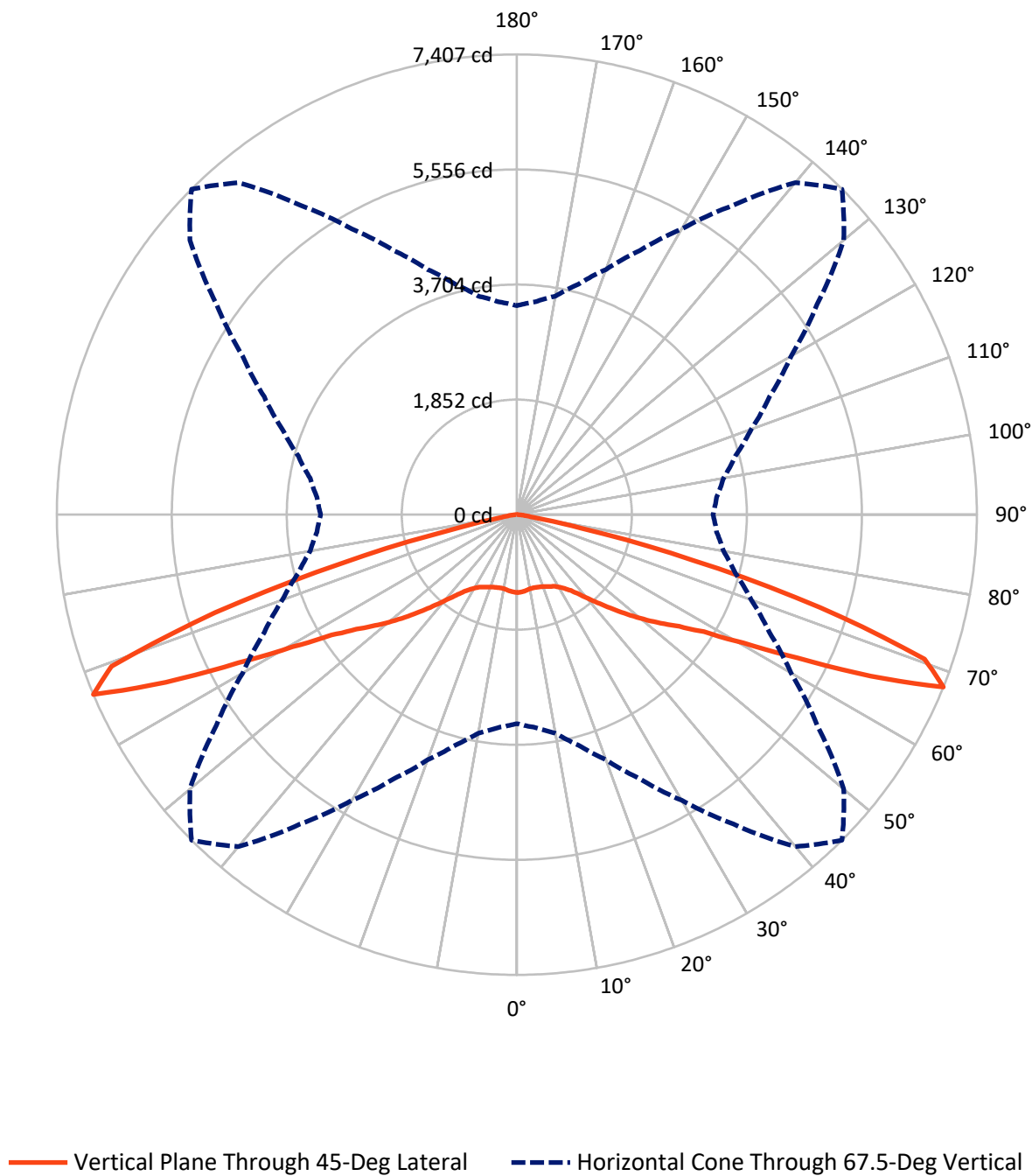


Based on 20 foot mounting height. Maximum calculated value = 3.1 fc  
Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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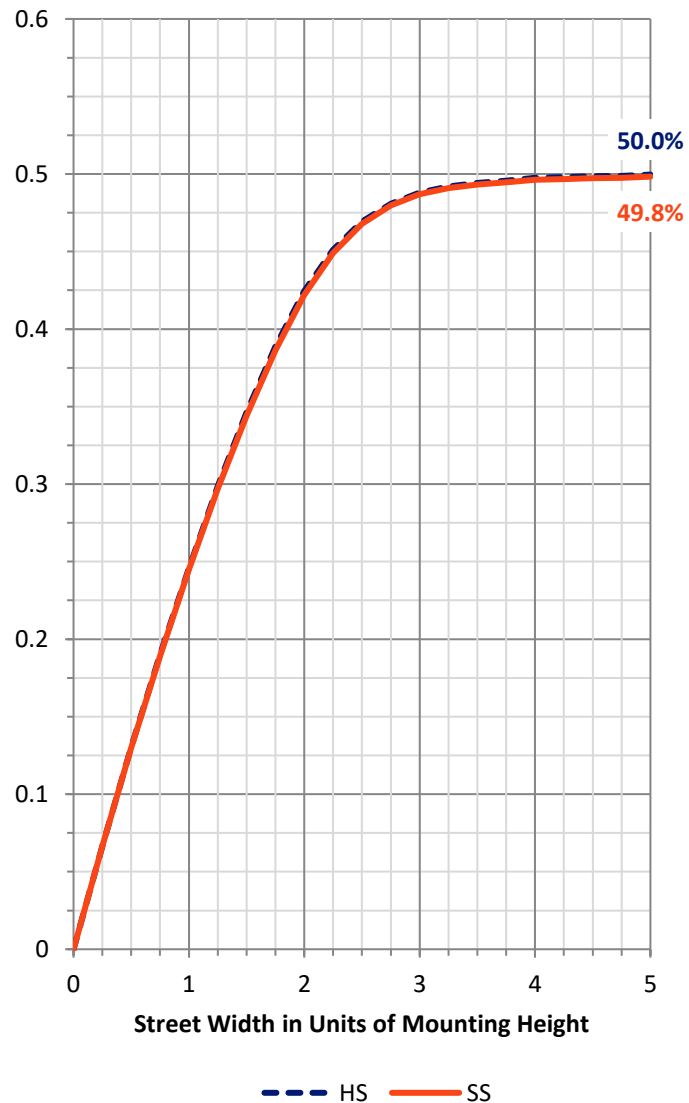
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6293.0   | 0.0    | 6293.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6293.0   | 0.0    | 6293.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 12586.0  | 0.0    | 12586.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 117.4   | 0.9       |
| 10°-20°   | 340.7   | 2.7       |
| 20°-30°   | 579.1   | 4.6       |
| 30°-40°   | 946.6   | 7.5       |
| 40°-50°   | 1689.9  | 13.4      |
| 50°-60°   | 2849.3  | 22.6      |
| 60°-70°   | 4421.6  | 35.1      |
| 70°-80°   | 1553.6  | 12.3      |
| 80°-90°   | 87.8    | 0.7       |
| 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°    | 12586.0 | 100.0     |
| 0°-180°   | 12586.0 | 100.0     |

**Coefficient of Utilization**



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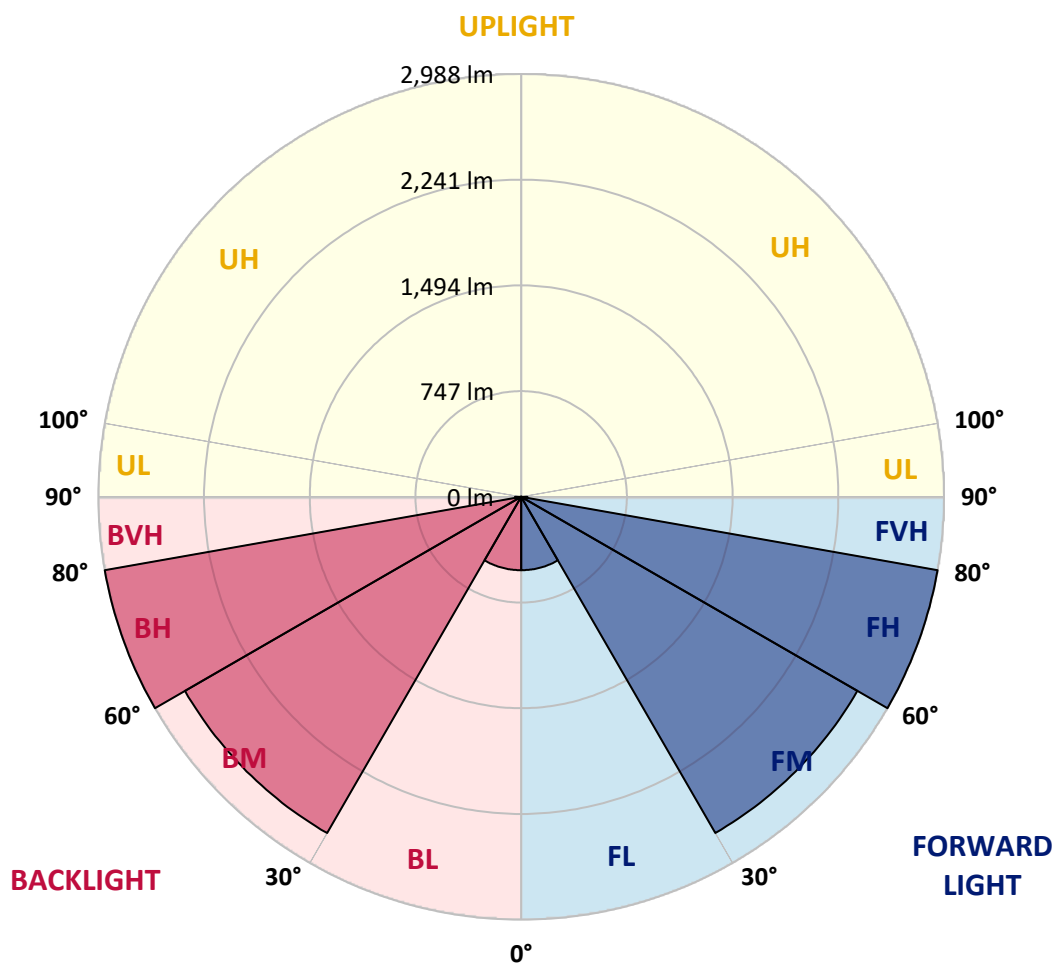
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 518.6  | 4.1       |                         |      |         |
| FM   | (30°-60°)   | 2742.9 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 2987.6 | 23.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 43.9   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 518.6  | 4.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2742.9 | 21.8      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2987.6 | 23.7      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 43.9   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1254.2 | 1254.2 | 1254.2 | 1254.2 | 1254.2 | 1254.2 | 1254.2 | 1254.2 | 1254.2 | 1254.2 | 1254.2 |
| 2.5°  | 1249.6 | 1250.8 | 1250.8 | 1250.8 | 1250.2 | 1250.2 | 1249.0 | 1250.2 | 1249.6 | 1247.9 | 1248.5 |
| 5°    | 1239.2 | 1240.4 | 1240.4 | 1239.8 | 1241.5 | 1240.9 | 1239.2 | 1240.4 | 1239.8 | 1238.6 | 1239.2 |
| 7.5°  | 1224.2 | 1225.9 | 1225.9 | 1225.3 | 1227.0 | 1226.5 | 1225.3 | 1225.9 | 1225.9 | 1224.2 | 1224.2 |
| 10°   | 1207.4 | 1208.5 | 1208.5 | 1207.9 | 1210.8 | 1210.8 | 1210.3 | 1212.0 | 1212.6 | 1210.8 | 1209.7 |
| 12.5° | 1191.7 | 1193.5 | 1193.5 | 1195.8 | 1198.7 | 1199.8 | 1202.7 | 1205.1 | 1207.4 | 1206.8 | 1204.5 |
| 15°   | 1182.5 | 1183.6 | 1186.0 | 1188.8 | 1193.5 | 1197.5 | 1202.2 | 1207.4 | 1212.0 | 1213.2 | 1209.7 |
| 17.5° | 1176.7 | 1178.4 | 1181.9 | 1186.0 | 1192.3 | 1199.3 | 1206.2 | 1213.2 | 1219.5 | 1221.8 | 1217.8 |
| 20°   | 1175.0 | 1176.1 | 1179.6 | 1186.5 | 1195.2 | 1205.6 | 1215.5 | 1223.6 | 1232.3 | 1235.1 | 1232.3 |
| 22.5° | 1178.4 | 1180.7 | 1184.8 | 1192.9 | 1204.5 | 1217.8 | 1229.4 | 1240.4 | 1251.4 | 1256.6 | 1252.5 |
| 25°   | 1194.1 | 1196.4 | 1201.6 | 1212.0 | 1224.7 | 1238.6 | 1251.9 | 1264.7 | 1274.5 | 1279.7 | 1276.8 |
| 27.5° | 1223.0 | 1225.9 | 1232.3 | 1242.7 | 1256.6 | 1271.6 | 1286.1 | 1296.5 | 1304.6 | 1306.3 | 1302.9 |
| 30°   | 1266.4 | 1272.8 | 1280.3 | 1291.9 | 1308.1 | 1320.8 | 1335.3 | 1344.5 | 1354.4 | 1354.4 | 1351.5 |
| 32.5° | 1334.1 | 1340.5 | 1348.6 | 1359.6 | 1372.3 | 1386.2 | 1398.9 | 1407.0 | 1417.5 | 1418.0 | 1411.1 |
| 35°   | 1435.4 | 1438.3 | 1445.3 | 1452.2 | 1463.8 | 1475.9 | 1486.9 | 1492.1 | 1500.8 | 1501.4 | 1495.0 |
| 37.5° | 1569.1 | 1569.7 | 1574.3 | 1576.6 | 1587.1 | 1600.4 | 1610.8 | 1614.3 | 1622.4 | 1621.2 | 1614.8 |
| 40°   | 1724.8 | 1727.7 | 1729.4 | 1732.9 | 1743.9 | 1756.6 | 1767.6 | 1769.4 | 1778.1 | 1776.3 | 1768.2 |
| 42.5° | 1904.8 | 1906.0 | 1915.8 | 1921.0 | 1931.4 | 1937.8 | 1951.7 | 1953.4 | 1963.9 | 1959.2 | 1950.0 |
| 45°   | 2106.8 | 2117.2 | 2126.5 | 2136.9 | 2147.9 | 2155.4 | 2166.4 | 2164.1 | 2171.1 | 2164.1 | 2158.9 |
| 47.5° | 2319.2 | 2326.8 | 2347.6 | 2363.8 | 2381.7 | 2388.1 | 2403.7 | 2396.8 | 2403.7 | 2393.9 | 2392.2 |
| 50°   | 2553.1 | 2566.4 | 2584.3 | 2602.8 | 2621.9 | 2632.4 | 2652.6 | 2643.9 | 2653.2 | 2643.9 | 2638.7 |
| 52.5° | 2783.4 | 2786.9 | 2826.3 | 2853.5 | 2880.1 | 2892.2 | 2904.4 | 2900.3 | 2900.9 | 2900.3 | 2895.1 |
| 55°   | 3002.2 | 3010.3 | 3049.7 | 3086.7 | 3133.0 | 3167.2 | 3188.0 | 3185.7 | 3180.5 | 3175.3 | 3166.6 |
| 57.5° | 3248.8 | 3256.9 | 3302.0 | 3347.7 | 3400.4 | 3449.0 | 3491.3 | 3534.7 | 3551.5 | 3556.1 | 3537.0 |
| 60°   | 3582.2 | 3581.6 | 3641.8 | 3697.3 | 3772.6 | 3844.9 | 3937.5 | 4031.9 | 4140.1 | 4190.5 | 4123.9 |
| 62.5° | 3921.3 | 3935.2 | 4022.0 | 4120.4 | 4275.6 | 4426.6 | 4597.4 | 4765.2 | 4936.5 | 5076.0 | 4927.9 |
| 65°   | 3880.8 | 3934.1 | 4063.1 | 4286.0 | 4572.5 | 4912.8 | 5280.9 | 5670.5 | 6022.4 | 6264.3 | 5992.8 |
| 67.5° | 3363.4 | 3439.2 | 3570.6 | 3841.5 | 4199.7 | 4690.6 | 5308.7 | 6079.1 | 6974.5 | 7407.4 | 6870.9 |
| 70°   | 2437.9 | 2523.5 | 2661.3 | 2925.8 | 3280.6 | 3747.1 | 4418.5 | 5343.4 | 6528.8 | 6965.2 | 6374.3 |
| 72.5° | 1213.2 | 1259.5 | 1344.5 | 1513.0 | 1781.5 | 2160.1 | 2769.0 | 3658.0 | 4706.8 | 5107.3 | 4567.3 |
| 75°   | 412.1  | 433.5  | 448.0  | 503.0  | 588.1  | 736.8  | 1039.5 | 1599.2 | 2439.6 | 2924.6 | 2404.9 |
| 77.5° | 237.9  | 238.5  | 248.3  | 258.1  | 272.6  | 288.8  | 329.3  | 432.4  | 747.8  | 1062.1 | 773.8  |
| 80°   | 154.0  | 153.4  | 161.5  | 169.0  | 178.8  | 187.0  | 189.3  | 200.3  | 230.9  | 273.8  | 244.8  |
| 82.5° | 79.9   | 89.7   | 107.7  | 117.5  | 136.0  | 139.5  | 134.9  | 130.8  | 138.3  | 143.5  | 147.0  |
| 85°   | 44.0   | 38.2   | 57.3   | 74.1   | 82.2   | 83.3   | 83.3   | 78.7   | 81.6   | 79.9   | 86.8   |
| 87.5° | 20.3   | 18.5   | 22.6   | 36.5   | 38.8   | 33.0   | 34.7   | 30.7   | 22.0   | 21.4   | 24.3   |
| 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°    | 1254.2 | 1254.2 | 1254.2 | 1254.2 | 1254.2 | 1254.2 | 1254.2 | 1254.2 |
| 2.5°  | 1248.5 | 1249.0 | 1249.0 | 1250.8 | 1251.4 | 1252.5 | 1253.7 | 1254.2 |
| 5°    | 1238.6 | 1240.4 | 1239.2 | 1240.9 | 1240.9 | 1242.1 | 1242.1 | 1242.7 |
| 7.5°  | 1224.2 | 1225.9 | 1225.9 | 1225.9 | 1225.3 | 1227.0 | 1227.0 | 1227.0 |
| 10°   | 1209.1 | 1210.3 | 1209.7 | 1208.5 | 1207.4 | 1209.1 | 1208.5 | 1207.9 |
| 12.5° | 1204.5 | 1201.6 | 1199.3 | 1198.1 | 1195.8 | 1196.4 | 1194.6 | 1194.6 |
| 15°   | 1207.4 | 1202.2 | 1198.1 | 1196.4 | 1194.1 | 1192.9 | 1191.7 | 1192.3 |
| 17.5° | 1214.9 | 1208.5 | 1203.3 | 1200.4 | 1197.5 | 1195.8 | 1193.5 | 1194.1 |
| 20°   | 1228.2 | 1220.7 | 1213.2 | 1207.4 | 1202.2 | 1199.3 | 1197.5 | 1196.9 |
| 22.5° | 1247.9 | 1236.9 | 1225.9 | 1217.2 | 1210.3 | 1206.2 | 1204.5 | 1203.3 |
| 25°   | 1270.5 | 1258.3 | 1245.6 | 1235.7 | 1228.8 | 1223.6 | 1220.1 | 1220.1 |
| 27.5° | 1298.8 | 1289.0 | 1277.4 | 1265.8 | 1259.5 | 1254.2 | 1251.9 | 1250.8 |
| 30°   | 1346.3 | 1337.0 | 1327.8 | 1316.8 | 1308.7 | 1303.4 | 1299.4 | 1295.9 |
| 32.5° | 1407.0 | 1399.5 | 1392.0 | 1383.9 | 1376.4 | 1369.4 | 1363.1 | 1360.2 |
| 35°   | 1492.7 | 1486.9 | 1481.7 | 1472.5 | 1469.6 | 1465.5 | 1462.0 | 1459.1 |
| 37.5° | 1610.8 | 1608.5 | 1608.5 | 1598.6 | 1596.3 | 1594.6 | 1591.1 | 1591.7 |
| 40°   | 1765.9 | 1768.2 | 1765.3 | 1761.9 | 1760.1 | 1755.5 | 1755.5 | 1759.5 |
| 42.5° | 1949.4 | 1951.1 | 1957.5 | 1951.7 | 1958.1 | 1952.3 | 1948.8 | 1951.7 |
| 45°   | 2162.4 | 2168.7 | 2181.5 | 2175.7 | 2179.7 | 2169.9 | 2157.7 | 2158.3 |
| 47.5° | 2401.4 | 2407.2 | 2412.4 | 2408.4 | 2408.9 | 2392.7 | 2376.5 | 2372.5 |
| 50°   | 2649.7 | 2652.0 | 2654.9 | 2649.1 | 2650.3 | 2632.4 | 2613.8 | 2614.4 |
| 52.5° | 2895.1 | 2906.1 | 2917.7 | 2902.1 | 2898.6 | 2878.3 | 2852.3 | 2841.9 |
| 55°   | 3175.8 | 3191.5 | 3178.2 | 3151.0 | 3123.8 | 3096.6 | 3062.4 | 3056.6 |
| 57.5° | 3522.0 | 3495.3 | 3453.7 | 3402.2 | 3364.5 | 3326.3 | 3291.6 | 3277.1 |
| 60°   | 4003.5 | 3903.4 | 3828.1 | 3751.7 | 3703.7 | 3656.8 | 3611.1 | 3604.2 |
| 62.5° | 4684.2 | 4511.1 | 4361.2 | 4203.2 | 4074.1 | 3973.4 | 3893.0 | 3870.4 |
| 65°   | 5537.3 | 5128.1 | 4773.3 | 4442.2 | 4154.6 | 3937.5 | 3800.9 | 3740.7 |
| 67.5° | 5904.3 | 5096.3 | 4488.0 | 4018.0 | 3641.8 | 3379.0 | 3231.4 | 3157.9 |
| 70°   | 5188.3 | 4226.4 | 3564.8 | 3094.2 | 2751.6 | 2471.5 | 2337.8 | 2259.0 |
| 72.5° | 3569.4 | 2688.5 | 2125.9 | 1735.2 | 1461.5 | 1227.0 | 1134.4 | 1127.5 |
| 75°   | 1602.7 | 1061.5 | 731.6  | 563.7  | 474.6  | 412.7  | 393.6  | 379.1  |
| 77.5° | 448.6  | 331.6  | 295.8  | 276.7  | 258.1  | 236.7  | 228.6  | 230.4  |
| 80°   | 218.2  | 206.1  | 197.9  | 185.8  | 169.0  | 151.1  | 143.0  | 146.4  |
| 82.5° | 144.7  | 143.0  | 148.2  | 139.5  | 115.2  | 97.8   | 82.2   | 75.2   |
| 85°   | 88.0   | 89.1   | 90.9   | 91.4   | 77.6   | 54.4   | 37.0   | 41.7   |
| 87.5° | 34.7   | 39.9   | 43.4   | 45.1   | 42.3   | 26.0   | 20.8   | 21.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)