

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: P200188

Luminaire Tested: **GAW-AF-02-LED-U-T3-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200188  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAW-AF-02-LED-U-T3-600  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8374.9 lumens  
Efficiency: N/A  
Efficacy: 126.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 66  
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

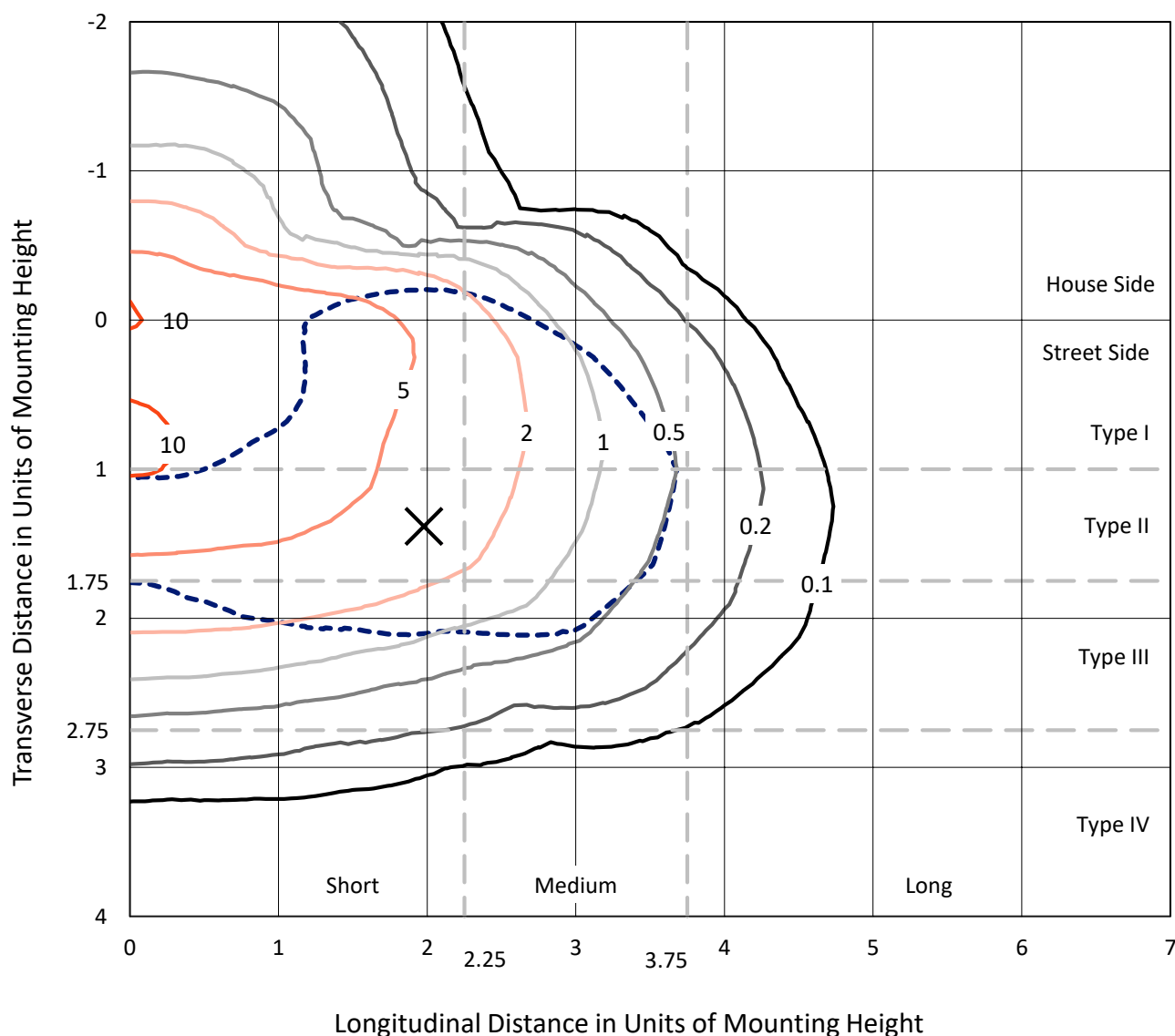


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

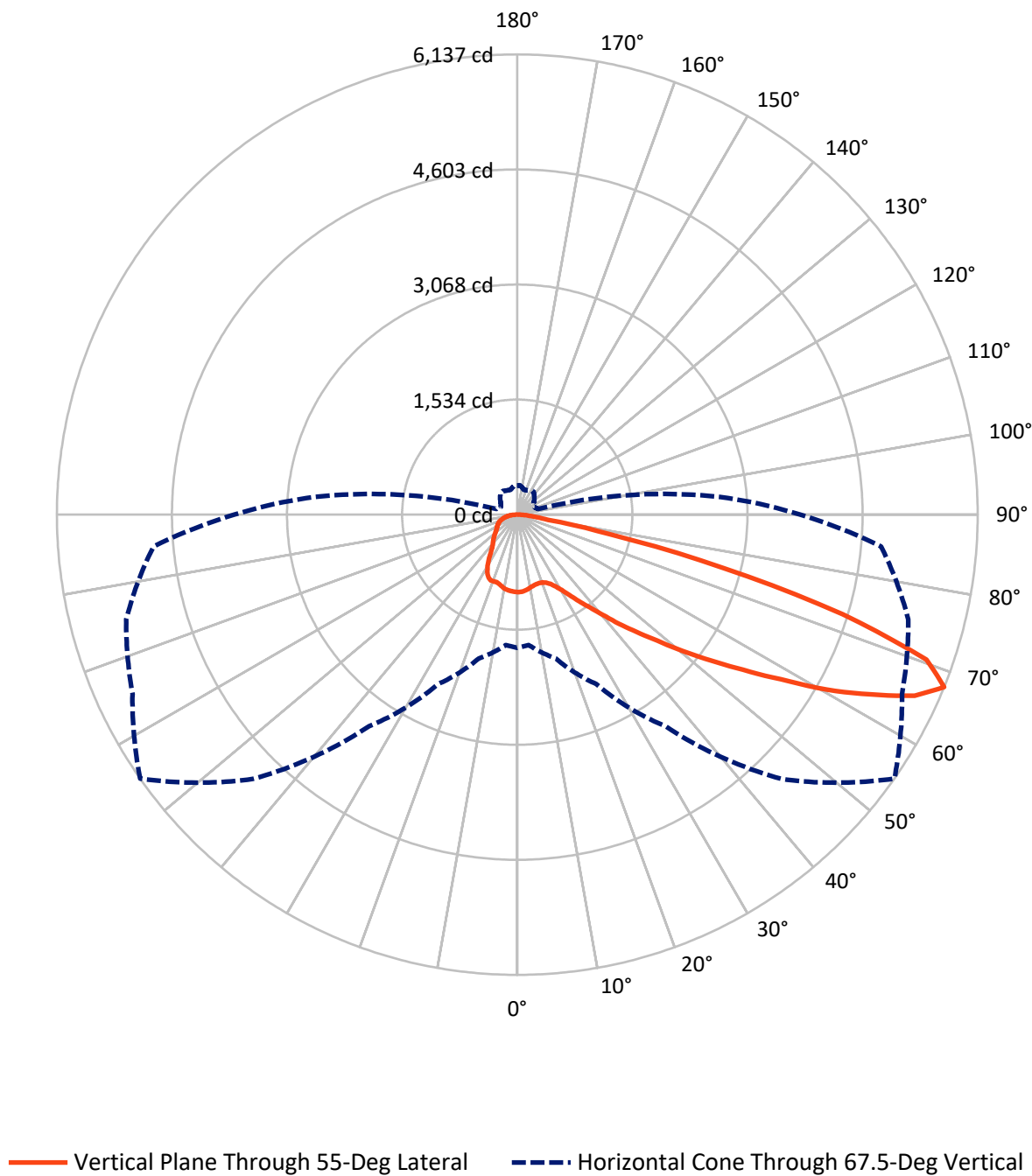


Based on 10 foot mounting height. Maximum calculated value = 10.6 fc  
 Type III - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1809.2   | 0.0    | 1809.2 |
|                    | % Fixture | 21.6     | 0.0    | 21.6   |
| <b>Street Side</b> | Lumens    | 6565.8   | 0.0    | 6565.8 |
|                    | % Fixture | 78.4     | 0.0    | 78.4   |
| <b>Total</b>       | Lumens    | 8374.9   | 0.0    | 8374.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 96.4   | 1.2       |
| 10°-20°   | 273.0  | 3.3       |
| 20°-30°   | 457.3  | 5.5       |
| 30°-40°   | 752.0  | 9.0       |
| 40°-50°   | 1265.9 | 15.1      |
| 50°-60°   | 1992.4 | 23.8      |
| 60°-70°   | 2377.7 | 28.4      |
| 70°-80°   | 1021.0 | 12.2      |
| 80°-90°   | 139.2  | 1.7       |
| 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°    | 8374.9 | 100.0     |
| 0°-180°   | 8374.9 | 100.0     |

**Coefficient of Utilization**



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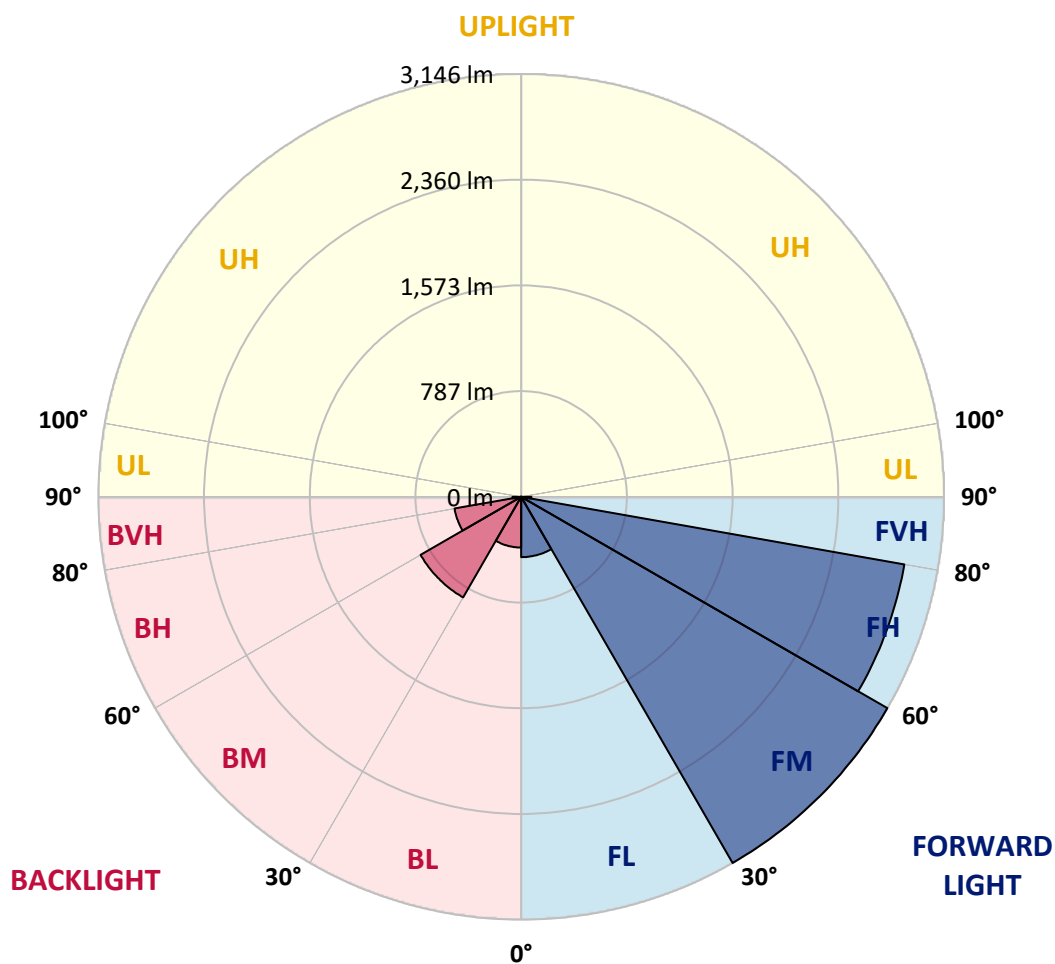
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 448.9  | 5.4       |                         |      |         |
| FM   | (30°-60°)   | 3146.2 | 37.6      |                         |      |         |
| FH   | (60°-80°)   | 2895.2 | 34.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 75.4   | 0.9       |                         |      | G1/100  |
| BL   | (0°-30°)    | 377.8  | 4.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 864.0  | 10.3      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 503.5  | 6.0       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 63.9   | 0.8       |                         |      | 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 III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 |
| 2.5°  | 1023.8 | 1024.2 | 1025.0 | 1028.3 | 1031.1 | 1030.3 | 1030.7 | 1029.1 | 1028.7 | 1026.2 | 1028.7 |
| 5°    | 1010.9 | 1012.1 | 1012.5 | 1017.7 | 1021.0 | 1021.8 | 1020.6 | 1018.6 | 1016.1 | 1013.7 | 1014.9 |
| 7.5°  | 981.3  | 984.6  | 985.0  | 992.3  | 997.5  | 1004.4 | 1004.8 | 1005.3 | 1004.0 | 1002.4 | 1004.8 |
| 10°   | 962.7  | 963.5  | 963.1  | 968.4  | 972.4  | 980.1  | 984.6  | 992.3  | 995.5  | 996.4  | 997.9  |
| 12.5° | 961.5  | 960.8  | 959.5  | 959.5  | 958.3  | 961.5  | 969.7  | 980.5  | 988.2  | 990.6  | 992.7  |
| 15°   | 974.5  | 974.1  | 970.1  | 963.9  | 956.3  | 953.8  | 960.8  | 972.8  | 983.0  | 988.2  | 990.2  |
| 17.5° | 1003.6 | 1001.2 | 994.7  | 980.9  | 964.3  | 957.9  | 958.7  | 968.8  | 980.5  | 987.5  | 989.4  |
| 20°   | 1057.0 | 1057.0 | 1043.2 | 1017.3 | 987.9  | 972.4  | 965.2  | 971.2  | 982.5  | 991.9  | 994.7  |
| 22.5° | 1149.2 | 1150.0 | 1127.0 | 1084.5 | 1034.7 | 1002.0 | 983.8  | 982.5  | 995.9  | 1006.4 | 1009.7 |
| 25°   | 1279.9 | 1276.6 | 1244.3 | 1183.6 | 1108.0 | 1053.7 | 1022.2 | 1014.9 | 1026.2 | 1038.0 | 1042.0 |
| 27.5° | 1431.9 | 1420.3 | 1381.8 | 1308.6 | 1210.7 | 1131.4 | 1082.9 | 1071.1 | 1082.1 | 1095.4 | 1099.5 |
| 30°   | 1582.4 | 1570.3 | 1524.6 | 1444.5 | 1335.7 | 1235.4 | 1165.8 | 1146.8 | 1162.2 | 1181.2 | 1183.6 |
| 32.5° | 1732.9 | 1732.9 | 1681.9 | 1588.5 | 1470.0 | 1359.6 | 1276.2 | 1253.6 | 1279.1 | 1302.1 | 1307.3 |
| 35°   | 1912.9 | 1913.7 | 1864.4 | 1751.9 | 1624.5 | 1507.6 | 1415.8 | 1399.2 | 1437.7 | 1453.8 | 1466.4 |
| 37.5° | 2134.2 | 2138.7 | 2075.2 | 1939.2 | 1799.7 | 1676.7 | 1567.5 | 1544.9 | 1583.2 | 1627.3 | 1667.8 |
| 40°   | 2373.2 | 2379.0 | 2308.9 | 2141.4 | 2001.9 | 1873.3 | 1755.2 | 1714.4 | 1778.2 | 1862.4 | 1914.6 |
| 42.5° | 2601.4 | 2630.5 | 2563.0 | 2390.6 | 2240.6 | 2107.5 | 1987.8 | 1928.3 | 2008.4 | 2135.4 | 2180.7 |
| 45°   | 2931.1 | 2952.1 | 2834.4 | 2678.3 | 2537.1 | 2388.3 | 2229.6 | 2166.9 | 2279.0 | 2439.2 | 2448.5 |
| 47.5° | 3150.7 | 3134.9 | 3075.1 | 2978.0 | 2888.6 | 2749.5 | 2510.8 | 2442.0 | 2590.9 | 2779.4 | 2727.2 |
| 50°   | 3267.6 | 3272.5 | 3264.4 | 3270.1 | 3273.3 | 3185.9 | 2855.5 | 2761.1 | 2938.7 | 3166.5 | 3046.3 |
| 52.5° | 3376.9 | 3344.5 | 3371.2 | 3503.9 | 3664.1 | 3631.7 | 3230.4 | 3132.2 | 3311.7 | 3596.1 | 3383.7 |
| 55°   | 3374.4 | 3325.1 | 3412.1 | 3646.3 | 3993.7 | 4030.9 | 3651.5 | 3538.3 | 3706.2 | 4056.8 | 3741.3 |
| 57.5° | 3255.1 | 3257.5 | 3391.4 | 3698.1 | 4223.5 | 4406.4 | 4140.2 | 3970.3 | 4124.4 | 4523.7 | 4067.8 |
| 60°   | 3090.8 | 3113.1 | 3306.1 | 3689.6 | 4407.6 | 4714.2 | 4739.6 | 4435.8 | 4534.1 | 4948.0 | 4337.9 |
| 62.5° | 2825.9 | 2849.3 | 3115.5 | 3601.4 | 4379.7 | 5010.7 | 5281.7 | 4964.2 | 4962.5 | 5205.3 | 4417.3 |
| 65°   | 2408.0 | 2401.2 | 2680.7 | 3271.7 | 4145.4 | 5229.9 | 5820.1 | 5420.8 | 5285.4 | 5209.3 | 4257.9 |
| 67.5° | 1775.8 | 1745.1 | 1984.9 | 2491.8 | 3445.6 | 4984.4 | 6136.9 | 5658.7 | 5395.3 | 4866.7 | 3770.8 |
| 70°   | 921.5  | 890.7  | 1084.9 | 1455.0 | 2266.0 | 3890.2 | 5786.1 | 5535.7 | 5152.3 | 4079.5 | 2954.2 |
| 72.5° | 394.0  | 388.7  | 467.6  | 638.3  | 1096.2 | 2243.8 | 4537.0 | 4791.4 | 4420.9 | 3039.5 | 2031.1 |
| 75°   | 264.9  | 263.3  | 292.9  | 347.9  | 493.1  | 910.5  | 2839.3 | 3401.1 | 3234.5 | 1884.6 | 1142.3 |
| 77.5° | 208.0  | 205.9  | 223.3  | 250.0  | 319.6  | 359.2  | 1260.1 | 1826.0 | 1690.0 | 820.3  | 500.0  |
| 80°   | 162.6  | 161.0  | 172.0  | 186.5  | 229.8  | 226.5  | 414.6  | 726.5  | 562.3  | 314.4  | 243.2  |
| 82.5° | 128.3  | 128.3  | 137.2  | 137.5  | 163.1  | 154.6  | 216.5  | 320.0  | 280.7  | 183.2  | 148.8  |
| 85°   | 117.3  | 117.3  | 126.6  | 102.7  | 106.4  | 97.5   | 134.3  | 189.8  | 178.0  | 75.3   | 64.8   |
| 87.5° | 59.0   | 57.5   | 106.4  | 91.0   | 57.8   | 51.8   | 65.6   | 91.9   | 98.7   | 41.6   | 32.3   |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 |
| 2.5°  | 1027.9 | 1027.5 | 1028.3 | 1028.7 | 1032.0 | 1036.4 | 1038.4 | 1041.3 | 1042.8 | 1042.0 |
| 5°    | 1015.7 | 1016.5 | 1019.8 | 1022.2 | 1027.9 | 1035.1 | 1039.2 | 1042.4 | 1045.3 | 1044.0 |
| 7.5°  | 1005.7 | 1007.6 | 1012.5 | 1014.6 | 1017.7 | 1019.8 | 1019.4 | 1020.6 | 1023.1 | 1020.2 |
| 10°   | 999.9  | 1002.4 | 1006.0 | 1003.2 | 995.5  | 984.6  | 974.5  | 969.2  | 970.8  | 968.8  |
| 12.5° | 994.3  | 997.5  | 994.7  | 981.3  | 959.9  | 945.7  | 938.0  | 938.9  | 942.5  | 943.4  |
| 15°   | 991.0  | 992.3  | 980.1  | 955.0  | 933.2  | 931.2  | 935.2  | 934.5  | 934.9  | 934.9  |
| 17.5° | 991.0  | 987.9  | 965.2  | 940.1  | 930.8  | 927.1  | 914.6  | 898.9  | 891.9  | 889.6  |
| 20°   | 996.4  | 987.9  | 960.3  | 943.8  | 923.5  | 892.3  | 859.2  | 830.0  | 817.1  | 813.5  |
| 22.5° | 1012.1 | 997.5  | 974.1  | 945.3  | 887.9  | 835.8  | 783.2  | 748.4  | 724.9  | 720.9  |
| 25°   | 1044.0 | 1027.9 | 1001.2 | 923.9  | 831.2  | 756.9  | 696.9  | 658.2  | 634.6  | 631.5  |
| 27.5° | 1099.9 | 1089.3 | 1015.7 | 876.6  | 756.1  | 676.4  | 620.9  | 591.0  | 573.6  | 572.3  |
| 30°   | 1184.0 | 1178.7 | 1008.4 | 806.6  | 663.4  | 598.2  | 571.6  | 554.1  | 541.2  | 540.8  |
| 32.5° | 1318.3 | 1275.8 | 984.6  | 721.3  | 578.9  | 542.9  | 531.9  | 521.4  | 511.3  | 511.3  |
| 35°   | 1491.1 | 1354.3 | 939.3  | 629.8  | 527.4  | 512.1  | 498.4  | 481.8  | 468.4  | 467.6  |
| 37.5° | 1694.1 | 1402.9 | 857.9  | 556.2  | 503.2  | 491.5  | 471.3  | 446.6  | 423.1  | 419.1  |
| 40°   | 1899.2 | 1417.4 | 743.5  | 510.9  | 487.8  | 470.9  | 446.2  | 417.1  | 394.3  | 393.2  |
| 42.5° | 2087.2 | 1389.5 | 622.2  | 479.8  | 472.5  | 449.8  | 423.9  | 398.0  | 380.2  | 379.8  |
| 45°   | 2245.1 | 1317.0 | 520.2  | 450.2  | 456.3  | 430.8  | 407.7  | 386.7  | 373.0  | 370.1  |
| 47.5° | 2393.5 | 1214.8 | 448.6  | 419.1  | 440.1  | 420.3  | 400.9  | 381.0  | 367.8  | 365.7  |
| 50°   | 2565.8 | 1104.3 | 398.4  | 388.7  | 426.0  | 416.6  | 406.5  | 385.9  | 363.7  | 361.2  |
| 52.5° | 2774.5 | 1008.8 | 359.2  | 362.0  | 415.0  | 421.5  | 421.0  | 399.7  | 360.8  | 357.6  |
| 55°   | 3007.6 | 902.9  | 329.7  | 340.2  | 410.6  | 430.4  | 424.7  | 412.6  | 363.2  | 358.4  |
| 57.5° | 3236.9 | 779.1  | 309.0  | 323.6  | 404.1  | 429.6  | 407.3  | 389.9  | 368.9  | 362.0  |
| 60°   | 3408.8 | 612.8  | 293.3  | 309.0  | 389.9  | 416.2  | 388.3  | 365.3  | 367.8  | 362.4  |
| 62.5° | 3420.1 | 473.7  | 274.3  | 296.6  | 368.5  | 402.9  | 375.8  | 354.4  | 373.0  | 368.1  |
| 65°   | 3219.1 | 358.0  | 256.0  | 281.5  | 345.5  | 394.3  | 363.7  | 348.3  | 383.9  | 378.6  |
| 67.5° | 2710.2 | 288.0  | 240.7  | 266.2  | 322.4  | 376.7  | 352.7  | 342.6  | 393.6  | 384.3  |
| 70°   | 1956.6 | 245.5  | 225.8  | 247.6  | 301.8  | 356.4  | 343.0  | 332.5  | 367.3  | 352.7  |
| 72.5° | 1204.6 | 212.8  | 208.7  | 222.9  | 286.0  | 335.3  | 328.5  | 313.5  | 330.9  | 319.2  |
| 75°   | 601.5  | 184.4  | 189.8  | 198.7  | 263.7  | 311.5  | 304.2  | 289.2  | 291.6  | 289.2  |
| 77.5° | 288.0  | 157.7  | 167.5  | 174.3  | 235.0  | 284.4  | 276.7  | 261.4  | 258.5  | 258.9  |
| 80°   | 182.4  | 131.9  | 141.2  | 146.1  | 209.9  | 252.8  | 245.1  | 229.8  | 262.1  | 243.2  |
| 82.5° | 114.1  | 107.2  | 109.7  | 118.6  | 182.8  | 220.0  | 209.9  | 196.2  | 236.2  | 186.9  |
| 85°   | 63.1   | 74.9   | 78.1   | 85.7   | 140.8  | 184.0  | 173.9  | 156.5  | 140.3  | 137.9  |
| 87.5° | 37.6   | 44.5   | 45.7   | 51.4   | 94.6   | 133.1  | 117.7  | 111.6  | 92.7   | 92.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)