

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: McGRAW-EDISON

Report Number: P594917

Luminaire Tested: **ISS-PA1F-827-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594917  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1F-827-U-T4W-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6364 lumens  
Efficiency: N/A  
Efficacy: 67.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

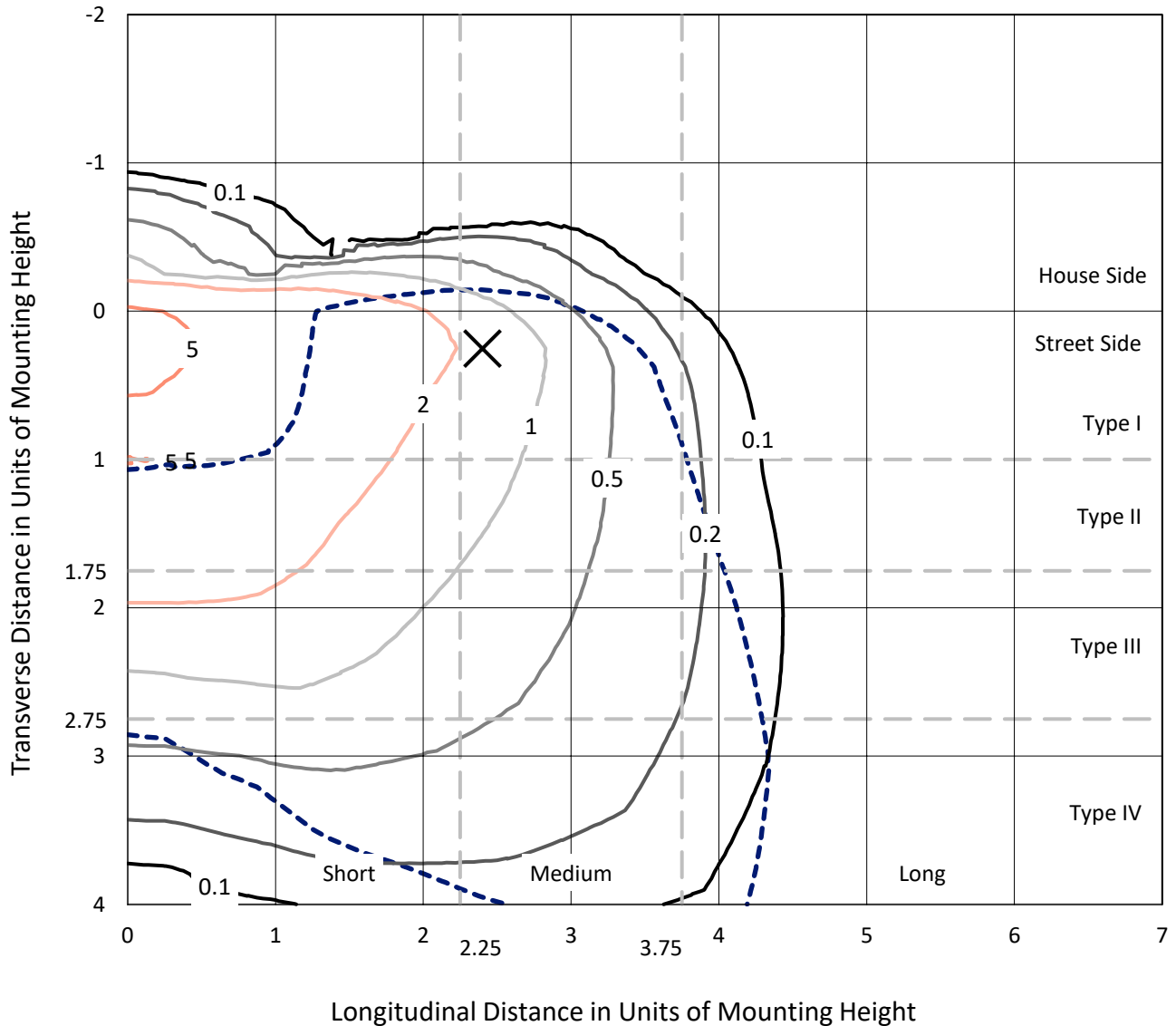
Input Watts (W): 94.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

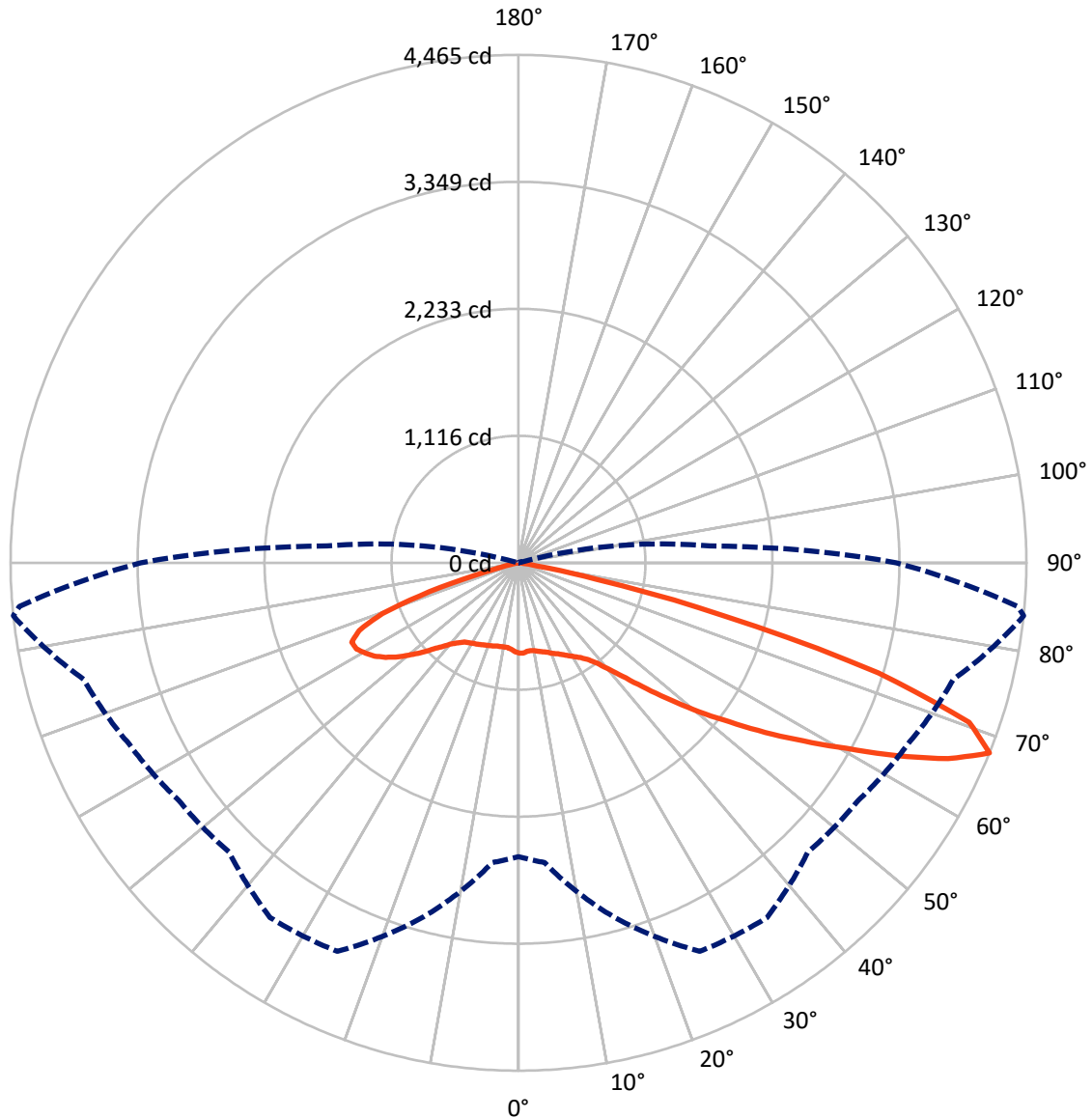
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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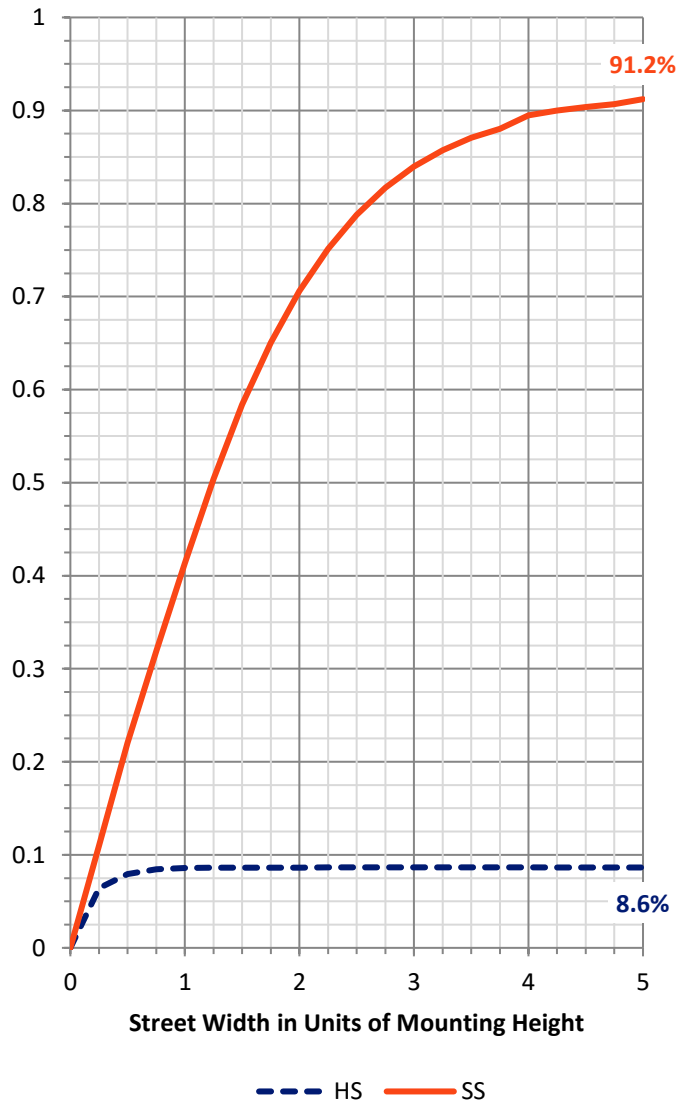
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 554.1    | 0.0    | 554.1  |
|                    | % Fixture | 8.7      | 0.0    | 8.7    |
| <b>Street Side</b> | Lumens    | 5809.9   | 0.0    | 5809.9 |
|                    | % Fixture | 91.3     | 0.0    | 91.3   |
| <b>Total</b>       | Lumens    | 6364.0   | 0.0    | 6364.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 71.1   | 1.1       |
| 10°-20°   | 186.0  | 2.9       |
| 20°-30°   | 297.8  | 4.7       |
| 30°-40°   | 428.6  | 6.7       |
| 40°-50°   | 735.6  | 11.6      |
| 50°-60°   | 1285.3 | 20.2      |
| 60°-70°   | 1840.5 | 28.9      |
| 70°-80°   | 1383.4 | 21.7      |
| 80°-90°   | 135.8  | 2.1       |
| 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°    | 6364.0 | 100.0     |
| 0°-180°   | 6364.0 | 100.0     |

**Coefficient of Utilization**

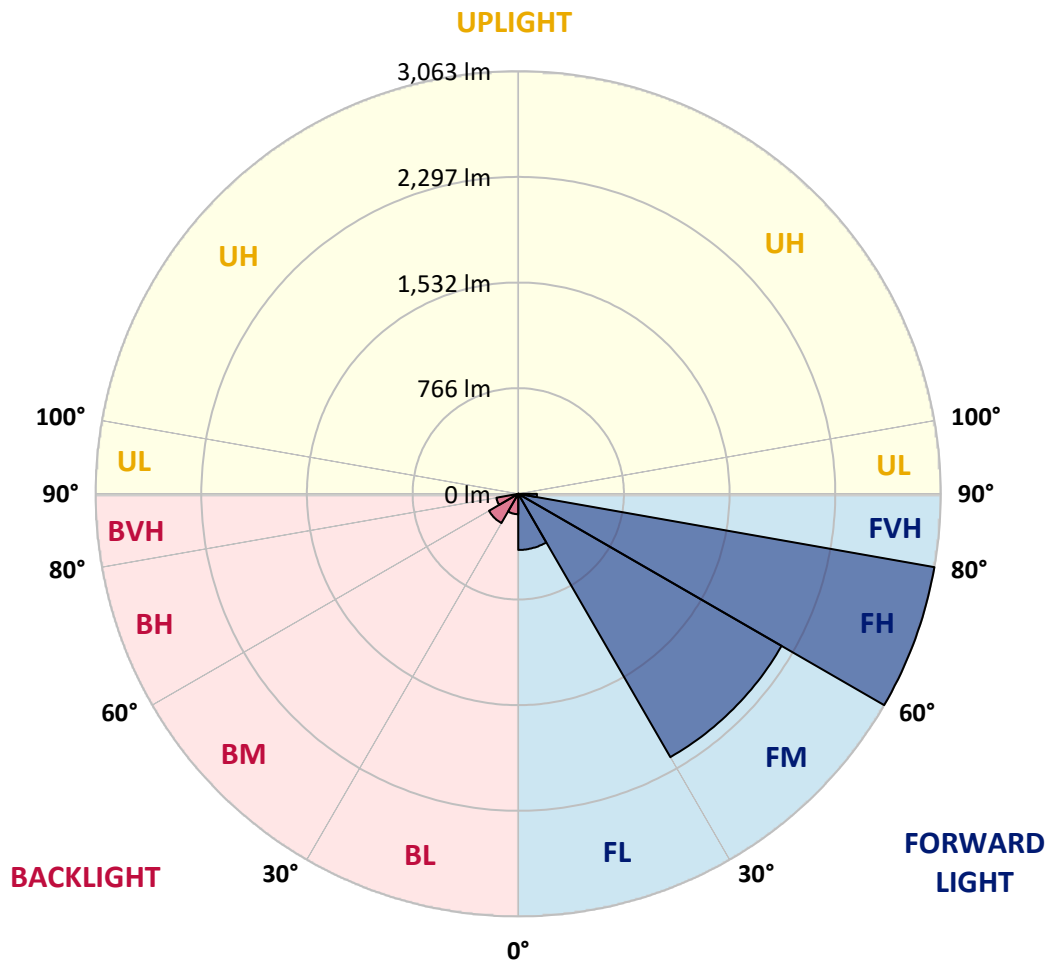


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 406.9  | 6.4       |                         |      |         |
| FM (30°-60°)   | 2204.4 | 34.6      |                         |      |         |
| FH (60°-80°)   | 3063.3 | 48.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 135.3  | 2.1       |                         |      | G2/225  |
| BL (0°-30°)    | 148.0  | 2.3       | B1/500                  |      |         |
| BM (30°-60°)   | 245.0  | 3.9       | B1/1000                 |      |         |
| BH (60°-80°)   | 160.6  | 2.5       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 0.4    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 84°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 792.9  | 792.9  | 792.9  | 792.9  | 792.9  | 792.9  | 792.9  | 792.9  | 792.9  | 792.9  | 792.9  |
| 2.5°  | 838.0  | 842.3  | 844.4  | 833.7  | 833.7  | 825.1  | 812.2  | 807.9  | 801.5  | 795.0  | 792.9  |
| 5°    | 881.0  | 887.4  | 885.3  | 872.4  | 865.9  | 848.7  | 831.6  | 814.4  | 797.2  | 782.1  | 782.1  |
| 7.5°  | 930.4  | 932.5  | 926.1  | 904.6  | 891.7  | 868.1  | 842.3  | 823.0  | 801.5  | 780.0  | 775.7  |
| 10°   | 973.4  | 971.2  | 962.6  | 941.1  | 917.5  | 887.4  | 859.5  | 838.0  | 812.2  | 786.4  | 784.3  |
| 12.5° | 1003.5 | 1005.6 | 994.9  | 964.8  | 941.1  | 906.8  | 878.8  | 857.3  | 827.3  | 799.3  | 792.9  |
| 15°   | 1029.2 | 1035.7 | 1022.8 | 992.7  | 958.3  | 928.2  | 906.8  | 878.8  | 844.4  | 812.2  | 807.9  |
| 17.5° | 1052.9 | 1055.0 | 1044.3 | 1009.9 | 977.7  | 951.9  | 928.2  | 902.5  | 868.1  | 827.3  | 823.0  |
| 20°   | 1065.8 | 1072.2 | 1065.8 | 1022.8 | 992.7  | 973.4  | 954.0  | 928.2  | 889.6  | 850.9  | 846.6  |
| 22.5° | 1074.4 | 1080.8 | 1078.7 | 1031.4 | 1005.6 | 990.6  | 973.4  | 949.7  | 913.2  | 868.1  | 863.8  |
| 25°   | 1078.7 | 1083.0 | 1087.3 | 1040.0 | 1018.5 | 1012.0 | 997.0  | 975.5  | 941.1  | 893.9  | 889.6  |
| 27.5° | 1085.1 | 1089.4 | 1093.7 | 1050.7 | 1042.1 | 1035.7 | 1031.4 | 1014.2 | 973.4  | 923.9  | 917.5  |
| 30°   | 1095.8 | 1102.3 | 1106.6 | 1070.1 | 1070.1 | 1076.5 | 1076.5 | 1052.9 | 1007.7 | 956.2  | 951.9  |
| 32.5° | 1108.7 | 1110.9 | 1119.5 | 1089.4 | 1100.1 | 1115.2 | 1110.9 | 1087.3 | 1040.0 | 992.7  | 986.3  |
| 35°   | 1143.1 | 1143.1 | 1158.2 | 1119.5 | 1132.4 | 1145.3 | 1149.6 | 1132.4 | 1089.4 | 1042.1 | 1040.0 |
| 37.5° | 1226.9 | 1226.9 | 1239.8 | 1177.5 | 1175.3 | 1188.2 | 1203.3 | 1203.3 | 1160.3 | 1117.3 | 1113.0 |
| 40°   | 1416.0 | 1416.0 | 1416.0 | 1272.0 | 1248.4 | 1263.4 | 1287.1 | 1300.0 | 1263.4 | 1233.4 | 1233.4 |
| 42.5° | 1731.9 | 1734.0 | 1701.8 | 1446.1 | 1345.1 | 1370.9 | 1396.7 | 1424.6 | 1405.3 | 1383.8 | 1379.5 |
| 45°   | 2058.5 | 2047.7 | 2043.4 | 1701.8 | 1517.0 | 1504.1 | 1536.3 | 1583.6 | 1590.1 | 1577.2 | 1585.8 |
| 47.5° | 2281.9 | 2292.7 | 2299.1 | 2019.8 | 1757.7 | 1669.6 | 1699.6 | 1766.2 | 1804.9 | 1802.8 | 1815.7 |
| 50°   | 2499.0 | 2505.4 | 2511.9 | 2370.0 | 2075.7 | 1878.0 | 1897.3 | 1987.6 | 2041.3 | 2058.5 | 2067.1 |
| 52.5° | 2688.0 | 2670.9 | 2698.8 | 2679.5 | 2413.0 | 2116.5 | 2116.5 | 2219.6 | 2316.3 | 2322.8 | 2320.6 |
| 55°   | 2743.9 | 2754.7 | 2838.5 | 2896.5 | 2759.0 | 2408.7 | 2365.7 | 2475.3 | 2578.5 | 2632.2 | 2632.2 |
| 57.5° | 2868.5 | 2879.3 | 2980.3 | 3111.3 | 3010.4 | 2696.6 | 2632.2 | 2739.6 | 2851.4 | 2954.5 | 2969.5 |
| 60°   | 3031.8 | 3034.0 | 3141.4 | 3341.3 | 3201.6 | 2956.6 | 2902.9 | 3025.4 | 3137.1 | 3313.3 | 3362.7 |
| 62.5° | 3119.9 | 3128.5 | 3276.8 | 3538.9 | 3442.2 | 3184.4 | 3171.5 | 3283.2 | 3427.2 | 3736.6 | 3781.7 |
| 65°   | 2984.6 | 3040.4 | 3362.7 | 3657.1 | 3637.8 | 3397.1 | 3442.2 | 3532.5 | 3697.9 | 4151.3 | 4194.3 |
| 67.5° | 2582.8 | 2645.1 | 3220.9 | 3768.9 | 3807.5 | 3597.0 | 3644.2 | 3775.3 | 3957.9 | 4465.0 | 4404.9 |
| 70°   | 2378.6 | 2430.2 | 2877.1 | 3831.2 | 3949.3 | 3820.4 | 3841.9 | 3964.4 | 4018.1 | 4202.9 | 4138.4 |
| 72.5° | 1802.8 | 1856.5 | 2434.5 | 3618.4 | 4071.8 | 4054.6 | 4000.9 | 3899.9 | 3581.9 | 3306.9 | 3150.0 |
| 75°   | 797.2  | 859.5  | 1620.1 | 2827.7 | 3768.9 | 4187.9 | 3904.2 | 3339.1 | 2572.0 | 1878.0 | 1740.5 |
| 77.5° | 352.4  | 388.9  | 627.4  | 1570.7 | 2832.0 | 3624.9 | 3087.7 | 2226.1 | 1291.4 | 698.3  | 648.9  |
| 80°   | 113.9  | 118.2  | 197.7  | 550.1  | 1448.2 | 2400.1 | 1890.9 | 1070.1 | 397.5  | 163.3  | 152.6  |
| 82.5° | 45.1   | 49.4   | 94.5   | 232.1  | 599.5  | 954.0  | 928.2  | 386.8  | 116.0  | 43.0   | 43.0   |
| 85°   | 12.9   | 15.0   | 47.3   | 122.5  | 212.7  | 268.6  | 328.8  | 128.9  | 62.3   | 12.9   | 12.9   |
| 87.5° | 4.3    | 4.3    | 17.2   | 38.7   | 40.8   | 27.9   | 62.3   | 49.4   | 38.7   | 4.3    | 4.3    |
| 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):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 792.9  | 792.9  | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 |
| 2.5°  | 788.6  | 784.3  | 773.5 | 764.9 | 760.6 | 754.2 | 745.6 | 741.3 | 741.3 | 739.2 | 732.7 |
| 5°    | 773.5  | 767.1  | 747.8 | 734.9 | 724.1 | 700.5 | 683.3 | 661.8 | 640.3 | 633.9 | 640.3 |
| 7.5°  | 767.1  | 754.2  | 728.4 | 702.6 | 657.5 | 595.2 | 554.4 | 509.2 | 494.2 | 474.9 | 477.0 |
| 10°   | 769.2  | 754.2  | 717.7 | 659.7 | 571.6 | 479.2 | 414.7 | 354.5 | 324.5 | 309.4 | 311.6 |
| 12.5° | 775.7  | 758.5  | 706.9 | 601.6 | 474.9 | 363.1 | 264.3 | 217.0 | 208.4 | 208.4 | 208.4 |
| 15°   | 788.6  | 762.8  | 689.7 | 532.9 | 371.7 | 240.7 | 186.9 | 182.6 | 189.1 | 195.5 | 197.7 |
| 17.5° | 801.5  | 775.7  | 664.0 | 462.0 | 270.7 | 180.5 | 174.0 | 174.0 | 180.5 | 186.9 | 189.1 |
| 20°   | 816.5  | 788.6  | 627.4 | 386.8 | 193.4 | 169.7 | 167.6 | 165.5 | 169.7 | 176.2 | 178.3 |
| 22.5° | 840.1  | 801.5  | 584.5 | 298.7 | 167.6 | 163.3 | 159.0 | 156.9 | 159.0 | 165.5 | 167.6 |
| 25°   | 861.6  | 818.7  | 539.3 | 221.3 | 156.9 | 152.6 | 150.4 | 148.3 | 148.3 | 152.6 | 154.7 |
| 27.5° | 887.4  | 838.0  | 489.9 | 165.5 | 144.0 | 141.8 | 139.7 | 137.5 | 135.4 | 139.7 | 141.8 |
| 30°   | 919.7  | 855.2  | 436.2 | 139.7 | 131.1 | 128.9 | 126.8 | 124.6 | 122.5 | 124.6 | 126.8 |
| 32.5° | 960.5  | 878.8  | 373.9 | 126.8 | 120.3 | 113.9 | 111.7 | 111.7 | 109.6 | 109.6 | 111.7 |
| 35°   | 1014.2 | 904.6  | 307.3 | 118.2 | 109.6 | 103.1 | 96.7  | 94.5  | 94.5  | 94.5  | 96.7  |
| 37.5° | 1093.7 | 951.9  | 242.8 | 109.6 | 101.0 | 90.2  | 83.8  | 77.4  | 77.4  | 77.4  | 77.4  |
| 40°   | 1203.3 | 1003.5 | 189.1 | 103.1 | 94.5  | 79.5  | 70.9  | 62.3  | 58.0  | 55.9  | 58.0  |
| 42.5° | 1373.0 | 1080.8 | 146.1 | 94.5  | 90.2  | 70.9  | 58.0  | 47.3  | 38.7  | 36.5  | 38.7  |
| 45°   | 1560.0 | 1164.6 | 116.0 | 88.1  | 81.7  | 60.2  | 45.1  | 32.2  | 23.6  | 21.5  | 23.6  |
| 47.5° | 1796.3 | 1269.9 | 98.8  | 79.5  | 70.9  | 49.4  | 32.2  | 17.2  | 10.7  | 12.9  | 12.9  |
| 50°   | 2024.1 | 1373.0 | 90.2  | 73.1  | 62.3  | 40.8  | 19.3  | 8.6   | 4.3   | 6.4   | 6.4   |
| 52.5° | 2275.5 | 1482.6 | 83.8  | 64.5  | 53.7  | 30.1  | 10.7  | 2.1   | 0.0   | 2.1   | 2.1   |
| 55°   | 2529.0 | 1581.5 | 77.4  | 58.0  | 43.0  | 21.5  | 4.3   | 0.0   | 0.0   | 0.0   | 2.1   |
| 57.5° | 2804.1 | 1665.3 | 70.9  | 49.4  | 32.2  | 12.9  | 2.1   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°   | 3034.0 | 1729.7 | 64.5  | 43.0  | 21.5  | 6.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5° | 3244.6 | 1787.7 | 49.4  | 32.2  | 12.9  | 4.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°   | 3384.2 | 1800.6 | 34.4  | 21.5  | 8.6   | 2.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5° | 3321.9 | 1688.9 | 21.5  | 15.0  | 4.3   | 2.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°   | 2920.1 | 1418.2 | 15.0  | 8.6   | 2.1   | 2.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 2043.4 | 915.4  | 12.9  | 6.4   | 2.1   | 2.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 1078.7 | 330.9  | 8.6   | 4.3   | 2.1   | 2.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 382.5  | 73.1   | 4.3   | 2.1   | 0.0   | 2.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 83.8   | 15.0   | 2.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 23.6   | 4.3    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 6.4    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 2.1    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 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)