

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: P594833

Luminaire Tested: **ISS-PA1E-827-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1E-827-U-T2U
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7780 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

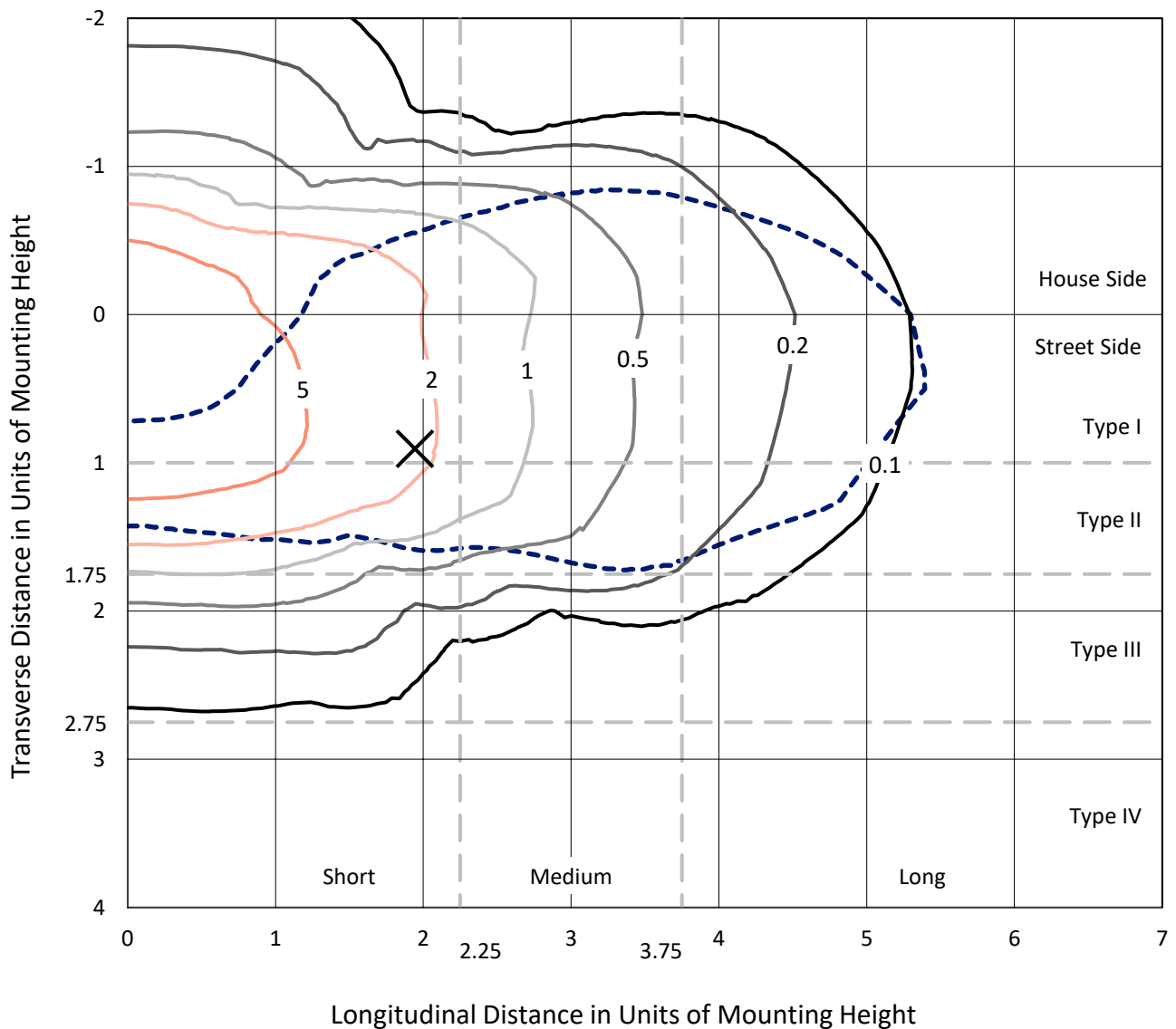
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

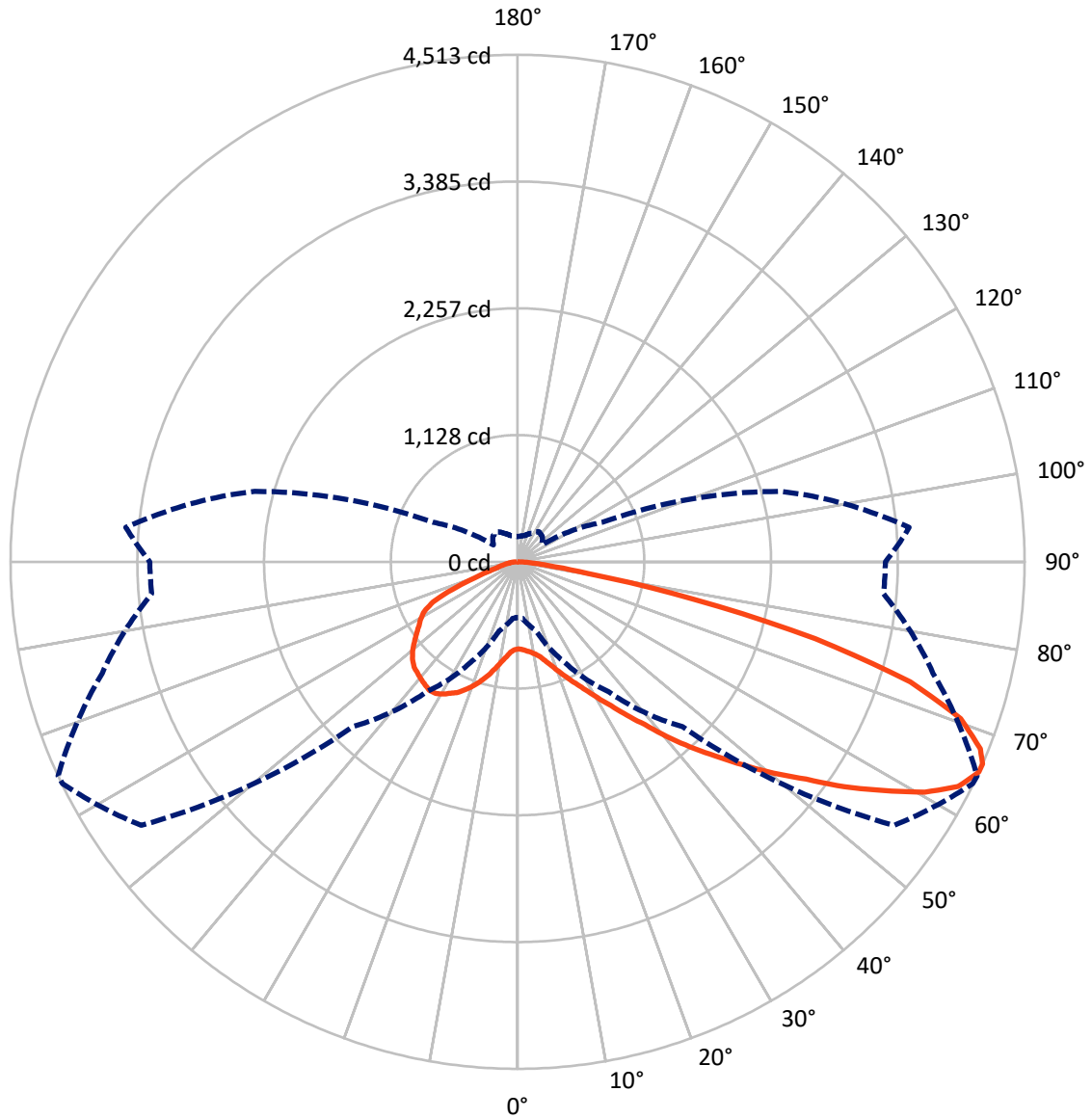
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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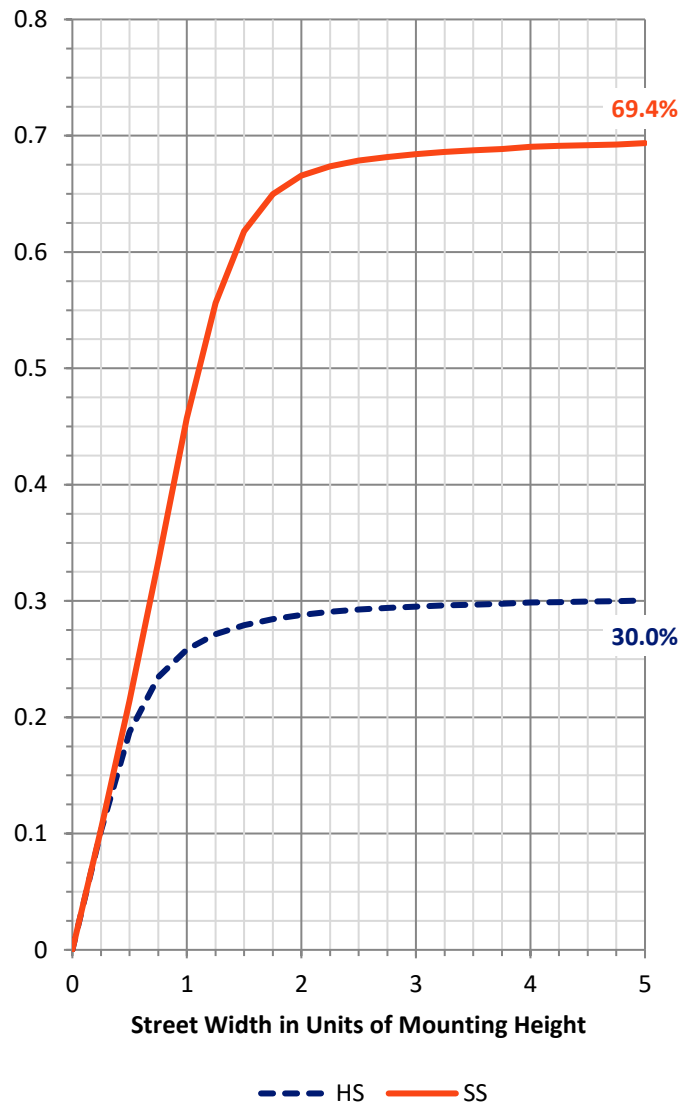
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2362.3 | 0.0 | 2362.3 |
| | % Fixture | 30.4 | 0.0 | 30.4 |
| Street Side | Lumens | 5417.7 | 0.0 | 5417.7 |
| | % Fixture | 69.6 | 0.0 | 69.6 |
| Total | Lumens | 7780.0 | 0.0 | 7780.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.1 | 1.0 |
| 10°-20° | 275.7 | 3.5 |
| 20°-30° | 540.0 | 6.9 |
| 30°-40° | 882.4 | 11.3 |
| 40°-50° | 1400.6 | 18.0 |
| 50°-60° | 1801.4 | 23.2 |
| 60°-70° | 1624.5 | 20.9 |
| 70°-80° | 1007.5 | 13.0 |
| 80°-90° | 168.8 | 2.2 |
| 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° | 7780.0 | 100.0 |
| 0°-180° | 7780.0 | 100.0 |

Coefficient of Utilization



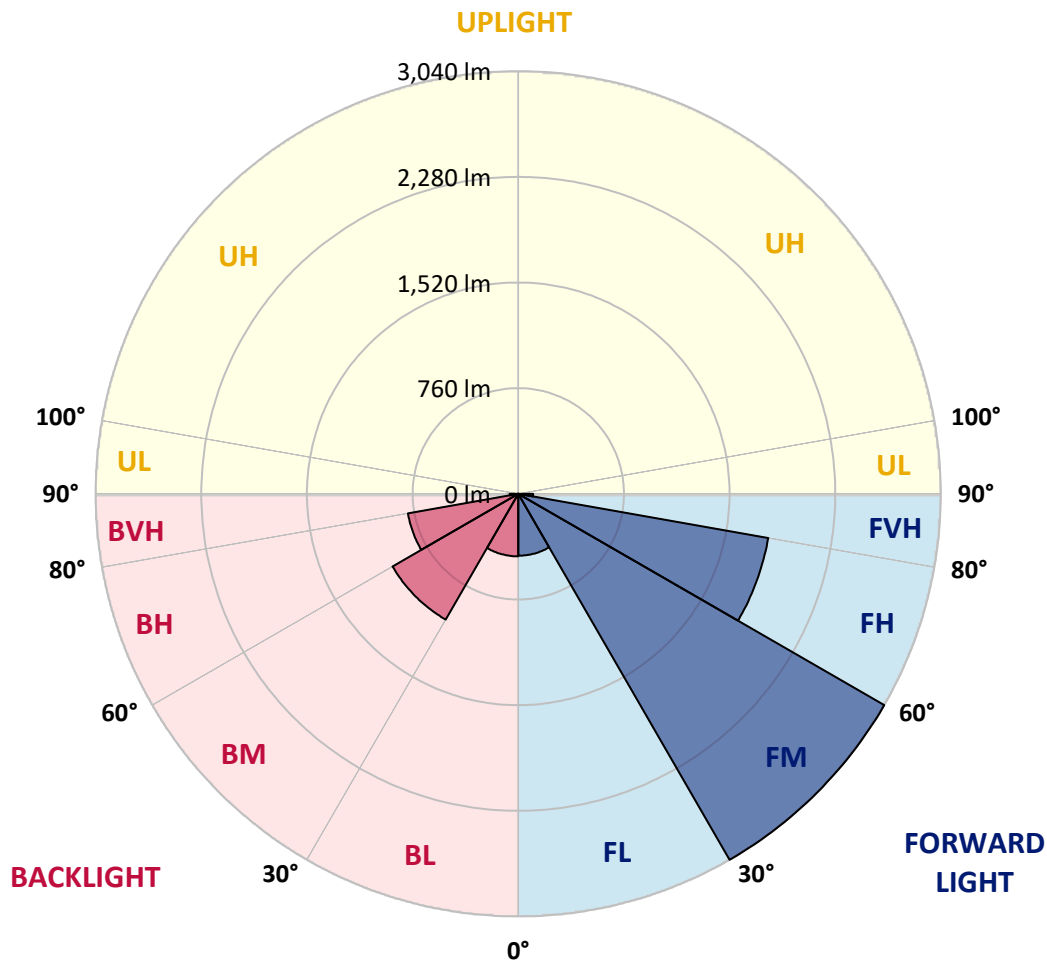
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 444.9 | 5.7 | | | |
| FM (30°-60°) | 3040.0 | 39.1 | | | |
| FH (60°-80°) | 1826.0 | 23.5 | | | G2/5000 |
| FVH (80°-90°) | 106.8 | 1.4 | | | G2/225 |
| BL (0°-30°) | 449.9 | 5.8 | B1/500 | | |
| BM (30°-60°) | 1044.3 | 13.4 | B2/2500 | | |
| BH (60°-80°) | 806.0 | 10.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 62.0 | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 775.5 | 775.5 | 775.5 | 775.5 | 775.5 | 775.5 | 775.5 | 775.5 | 775.5 | 775.5 | 775.5 |
| 2.5° | 777.4 | 779.3 | 781.1 | 777.4 | 781.1 | 783.0 | 779.3 | 779.3 | 781.1 | 777.4 | 777.4 |
| 5° | 771.7 | 773.6 | 777.4 | 779.3 | 786.8 | 790.6 | 792.5 | 792.5 | 794.3 | 792.5 | 794.3 |
| 7.5° | 756.6 | 756.6 | 764.2 | 767.9 | 779.3 | 792.5 | 800.0 | 811.3 | 811.3 | 813.2 | 818.9 |
| 10° | 771.7 | 771.7 | 777.4 | 783.0 | 792.5 | 803.8 | 815.1 | 828.3 | 832.1 | 845.3 | 852.8 |
| 12.5° | 794.3 | 798.1 | 805.7 | 813.2 | 824.5 | 837.7 | 847.2 | 860.4 | 862.3 | 875.5 | 890.6 |
| 15° | 832.1 | 835.9 | 839.6 | 849.1 | 864.2 | 881.1 | 898.1 | 907.6 | 911.3 | 918.9 | 930.2 |
| 17.5° | 888.7 | 892.5 | 894.4 | 900.0 | 911.3 | 934.0 | 958.5 | 966.0 | 969.8 | 969.8 | 979.3 |
| 20° | 984.9 | 983.0 | 979.3 | 967.9 | 967.9 | 988.7 | 1022.7 | 1035.9 | 1039.6 | 1032.1 | 1026.4 |
| 22.5° | 1096.2 | 1094.4 | 1079.3 | 1066.1 | 1056.6 | 1060.4 | 1094.4 | 1117.0 | 1115.1 | 1100.0 | 1077.4 |
| 25° | 1241.5 | 1245.3 | 1220.8 | 1186.8 | 1158.5 | 1151.0 | 1171.7 | 1194.4 | 1198.1 | 1169.8 | 1132.1 |
| 27.5° | 1415.1 | 1409.5 | 1396.2 | 1341.5 | 1286.8 | 1252.8 | 1264.2 | 1288.7 | 1290.6 | 1260.4 | 1200.0 |
| 30° | 1618.9 | 1609.5 | 1575.5 | 1518.9 | 1434.0 | 1386.8 | 1377.4 | 1398.1 | 1403.8 | 1352.8 | 1266.1 |
| 32.5° | 1845.3 | 1835.9 | 1792.5 | 1705.7 | 1613.2 | 1534.0 | 1503.8 | 1532.1 | 1528.3 | 1469.8 | 1349.1 |
| 35° | 2118.9 | 2117.0 | 2037.8 | 1930.2 | 1813.2 | 1707.6 | 1666.1 | 1666.1 | 1677.4 | 1590.6 | 1454.7 |
| 37.5° | 2484.9 | 2500.0 | 2383.0 | 2215.1 | 2051.0 | 1909.5 | 1839.6 | 1835.9 | 1837.8 | 1743.4 | 1573.6 |
| 40° | 2815.1 | 2809.5 | 2741.5 | 2584.9 | 2345.3 | 2164.2 | 2060.4 | 2037.8 | 2043.4 | 1922.7 | 1728.3 |
| 42.5° | 3005.7 | 3011.4 | 2994.4 | 2926.4 | 2717.0 | 2488.7 | 2311.3 | 2251.0 | 2252.9 | 2101.9 | 1875.5 |
| 45° | 3124.6 | 3130.2 | 3128.3 | 3162.3 | 3079.3 | 2864.2 | 2611.4 | 2471.7 | 2464.2 | 2305.7 | 2049.1 |
| 47.5° | 3192.5 | 3196.3 | 3220.8 | 3290.6 | 3358.5 | 3309.5 | 2943.4 | 2717.0 | 2701.9 | 2496.3 | 2222.7 |
| 50° | 3117.0 | 3118.9 | 3217.0 | 3383.1 | 3549.1 | 3698.2 | 3283.1 | 2960.4 | 2956.6 | 2707.6 | 2392.5 |
| 52.5° | 2720.8 | 2754.7 | 2971.7 | 3318.9 | 3690.6 | 3973.6 | 3675.5 | 3247.2 | 3215.1 | 2907.6 | 2562.3 |
| 55° | 2220.8 | 2235.9 | 2484.9 | 2926.4 | 3664.2 | 4143.4 | 3971.7 | 3556.6 | 3534.0 | 3130.2 | 2728.3 |
| 57.5° | 1734.0 | 1749.1 | 2045.3 | 2413.2 | 3260.4 | 4134.0 | 4181.2 | 3890.6 | 3839.7 | 3324.6 | 2894.4 |
| 60° | 1118.9 | 1166.1 | 1509.5 | 1962.3 | 2639.7 | 3847.2 | 4286.8 | 4211.4 | 4164.2 | 3517.0 | 3035.9 |
| 62.5° | 760.4 | 767.9 | 983.0 | 1454.7 | 1975.5 | 3126.5 | 4279.3 | 4409.5 | 4401.9 | 3709.5 | 3177.4 |
| 65° | 494.3 | 505.7 | 635.9 | 984.9 | 1413.2 | 2075.5 | 4090.6 | 4505.7 | 4513.3 | 3828.3 | 3269.8 |
| 66° | 418.9 | 426.4 | 526.4 | 828.3 | 1237.8 | 1645.3 | 3924.6 | 4498.2 | 4513.3 | 3883.1 | 3298.2 |
| 67.5° | 364.2 | 369.8 | 420.8 | 611.3 | 1011.3 | 1183.0 | 3492.5 | 4398.2 | 4441.6 | 3934.0 | 3334.0 |
| 70° | 313.2 | 320.8 | 367.9 | 417.0 | 722.6 | 690.6 | 2211.3 | 4141.6 | 4185.0 | 3958.5 | 3356.6 |
| 72.5° | 258.5 | 264.2 | 311.3 | 377.4 | 524.5 | 464.2 | 975.5 | 3545.3 | 3654.8 | 3868.0 | 3320.8 |
| 75° | 203.8 | 207.5 | 250.9 | 315.1 | 401.9 | 362.3 | 424.5 | 2600.0 | 2737.8 | 3409.5 | 3181.2 |
| 77.5° | 158.5 | 160.4 | 194.3 | 245.3 | 367.9 | 281.1 | 262.3 | 1266.1 | 1601.9 | 2634.0 | 2801.9 |
| 80° | 109.4 | 113.2 | 143.4 | 184.9 | 269.8 | 222.6 | 175.5 | 494.3 | 628.3 | 1749.1 | 2124.6 |
| 82.5° | 71.7 | 73.6 | 98.1 | 139.6 | 179.2 | 213.2 | 115.1 | 239.6 | 264.2 | 805.7 | 920.8 |
| 85° | 49.1 | 49.1 | 69.8 | 86.8 | 122.6 | 141.5 | 75.5 | 126.4 | 137.7 | 305.7 | 111.3 |
| 87.5° | 24.5 | 24.5 | 34.0 | 45.3 | 58.5 | 54.7 | 45.3 | 45.3 | 45.3 | 100.0 | 32.1 |
| 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° | 775.5 | 775.5 | 775.5 | 775.5 | 775.5 | 775.5 | 775.5 | 775.5 | 775.5 | 775.5 | 775.5 |
| 2.5° | 779.3 | 779.3 | 781.1 | 783.0 | 784.9 | 784.9 | 786.8 | 786.8 | 784.9 | 786.8 | 788.7 |
| 5° | 796.2 | 798.1 | 801.9 | 807.6 | 817.0 | 826.4 | 835.9 | 841.5 | 847.2 | 849.1 | 845.3 |
| 7.5° | 822.7 | 826.4 | 839.6 | 854.7 | 869.8 | 892.5 | 905.7 | 913.2 | 917.0 | 920.8 | 917.0 |
| 10° | 856.6 | 864.2 | 883.0 | 909.4 | 935.9 | 964.2 | 979.3 | 990.6 | 992.5 | 996.2 | 992.5 |
| 12.5° | 896.2 | 909.4 | 937.7 | 975.5 | 1007.6 | 1035.9 | 1047.2 | 1039.6 | 1022.7 | 1015.1 | 1013.2 |
| 15° | 943.4 | 956.6 | 996.2 | 1043.4 | 1081.1 | 1094.4 | 1077.4 | 1052.8 | 1034.0 | 1032.1 | 1030.2 |
| 17.5° | 984.9 | 1003.8 | 1058.5 | 1107.6 | 1143.4 | 1130.2 | 1084.9 | 1069.8 | 1064.2 | 1071.7 | 1069.8 |
| 20° | 1037.7 | 1052.8 | 1107.6 | 1167.9 | 1186.8 | 1135.9 | 1103.8 | 1094.4 | 1088.7 | 1088.7 | 1084.9 |
| 22.5° | 1081.1 | 1092.5 | 1158.5 | 1224.5 | 1213.2 | 1139.6 | 1117.0 | 1098.1 | 1079.3 | 1077.4 | 1071.7 |
| 25° | 1132.1 | 1135.9 | 1205.7 | 1277.4 | 1217.0 | 1143.4 | 1103.8 | 1071.7 | 1052.8 | 1047.2 | 1049.1 |
| 27.5° | 1179.3 | 1188.7 | 1249.1 | 1313.2 | 1207.6 | 1122.7 | 1058.5 | 1017.0 | 988.7 | 986.8 | 986.8 |
| 30° | 1239.6 | 1239.6 | 1294.4 | 1352.8 | 1186.8 | 1069.8 | 984.9 | 924.5 | 901.9 | 900.0 | 896.2 |
| 32.5° | 1307.6 | 1296.2 | 1349.1 | 1381.1 | 1141.5 | 998.1 | 884.9 | 817.0 | 781.1 | 773.6 | 767.9 |
| 35° | 1401.9 | 1377.4 | 1415.1 | 1386.8 | 1096.2 | 896.2 | 758.5 | 681.1 | 654.7 | 643.4 | 643.4 |
| 37.5° | 1511.3 | 1475.5 | 1515.1 | 1369.8 | 1026.4 | 777.4 | 626.4 | 567.9 | 539.6 | 522.6 | 528.3 |
| 40° | 1639.6 | 1594.4 | 1617.0 | 1351.0 | 951.0 | 645.3 | 517.0 | 481.1 | 447.2 | 424.5 | 424.5 |
| 42.5° | 1790.6 | 1715.1 | 1732.1 | 1332.1 | 843.4 | 530.2 | 447.2 | 422.6 | 396.2 | 373.6 | 379.2 |
| 45° | 1935.9 | 1862.3 | 1845.3 | 1313.2 | 730.2 | 452.8 | 418.9 | 401.9 | 377.4 | 350.9 | 350.9 |
| 47.5° | 2103.8 | 2009.5 | 1945.3 | 1279.3 | 618.9 | 428.3 | 426.4 | 401.9 | 354.7 | 317.0 | 313.2 |
| 50° | 2262.3 | 2175.5 | 2035.9 | 1228.3 | 556.6 | 449.1 | 424.5 | 366.0 | 320.8 | 296.2 | 294.3 |
| 52.5° | 2430.2 | 2339.7 | 2109.5 | 1166.1 | 524.5 | 439.6 | 390.6 | 335.9 | 301.9 | 277.4 | 271.7 |
| 55° | 2596.3 | 2549.1 | 2175.5 | 1105.7 | 473.6 | 409.4 | 362.3 | 317.0 | 281.1 | 258.5 | 254.7 |
| 57.5° | 2784.9 | 2766.1 | 2232.1 | 1045.3 | 394.3 | 371.7 | 341.5 | 303.8 | 269.8 | 252.8 | 250.9 |
| 60° | 2949.1 | 3015.1 | 2300.0 | 1000.0 | 335.9 | 343.4 | 332.1 | 301.9 | 277.4 | 258.5 | 258.5 |
| 62.5° | 3122.7 | 3254.8 | 2360.4 | 941.5 | 292.5 | 326.4 | 334.0 | 300.0 | 267.9 | 250.9 | 250.9 |
| 65° | 3273.6 | 3500.0 | 2422.7 | 834.0 | 262.3 | 313.2 | 328.3 | 279.2 | 241.5 | 228.3 | 224.5 |
| 66° | 3337.8 | 3569.9 | 2441.5 | 767.9 | 250.9 | 303.8 | 318.9 | 267.9 | 230.2 | 218.9 | 217.0 |
| 67.5° | 3413.2 | 3679.3 | 2464.2 | 626.4 | 234.0 | 283.0 | 298.1 | 250.9 | 211.3 | 203.8 | 200.0 |
| 70° | 3518.9 | 3701.9 | 2451.0 | 409.4 | 203.8 | 243.4 | 266.0 | 224.5 | 188.7 | 183.0 | 177.4 |
| 72.5° | 3530.2 | 3547.2 | 2318.9 | 258.5 | 177.4 | 209.4 | 234.0 | 201.9 | 166.0 | 160.4 | 156.6 |
| 75° | 3343.4 | 3143.4 | 1962.3 | 184.9 | 156.6 | 184.9 | 205.7 | 175.5 | 137.7 | 130.2 | 126.4 |
| 77.5° | 2854.8 | 2494.4 | 1411.3 | 137.7 | 135.9 | 158.5 | 171.7 | 152.8 | 115.1 | 109.4 | 107.5 |
| 80° | 2003.8 | 1692.5 | 707.6 | 103.8 | 107.5 | 132.1 | 143.4 | 128.3 | 96.2 | 88.7 | 84.9 |
| 82.5° | 811.3 | 718.9 | 243.4 | 77.4 | 81.1 | 100.0 | 122.6 | 105.7 | 73.6 | 64.2 | 56.6 |
| 85° | 92.5 | 156.6 | 105.7 | 52.8 | 54.7 | 67.9 | 83.0 | 64.2 | 43.4 | 35.8 | 30.2 |
| 87.5° | 18.9 | 34.0 | 37.7 | 20.8 | 18.9 | 26.4 | 37.7 | 22.6 | 15.1 | 5.7 | 7.5 |
| 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)