

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: P595749

Luminaire Tested: **ISW-PA1D-830-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISW-PA1D-830-U-T2R
Description: IMPACT ELITE LED WEDGE LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6664 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

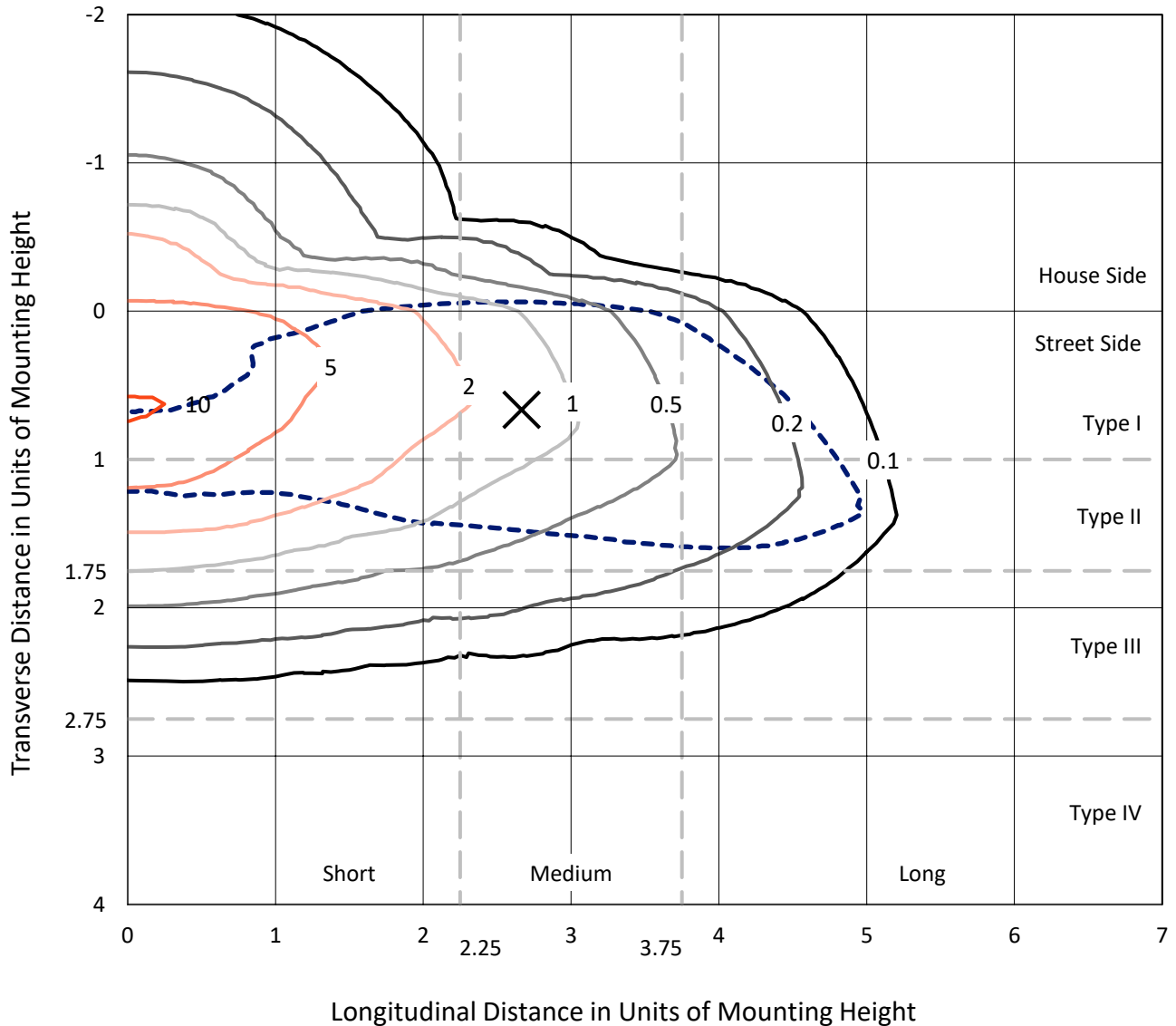
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

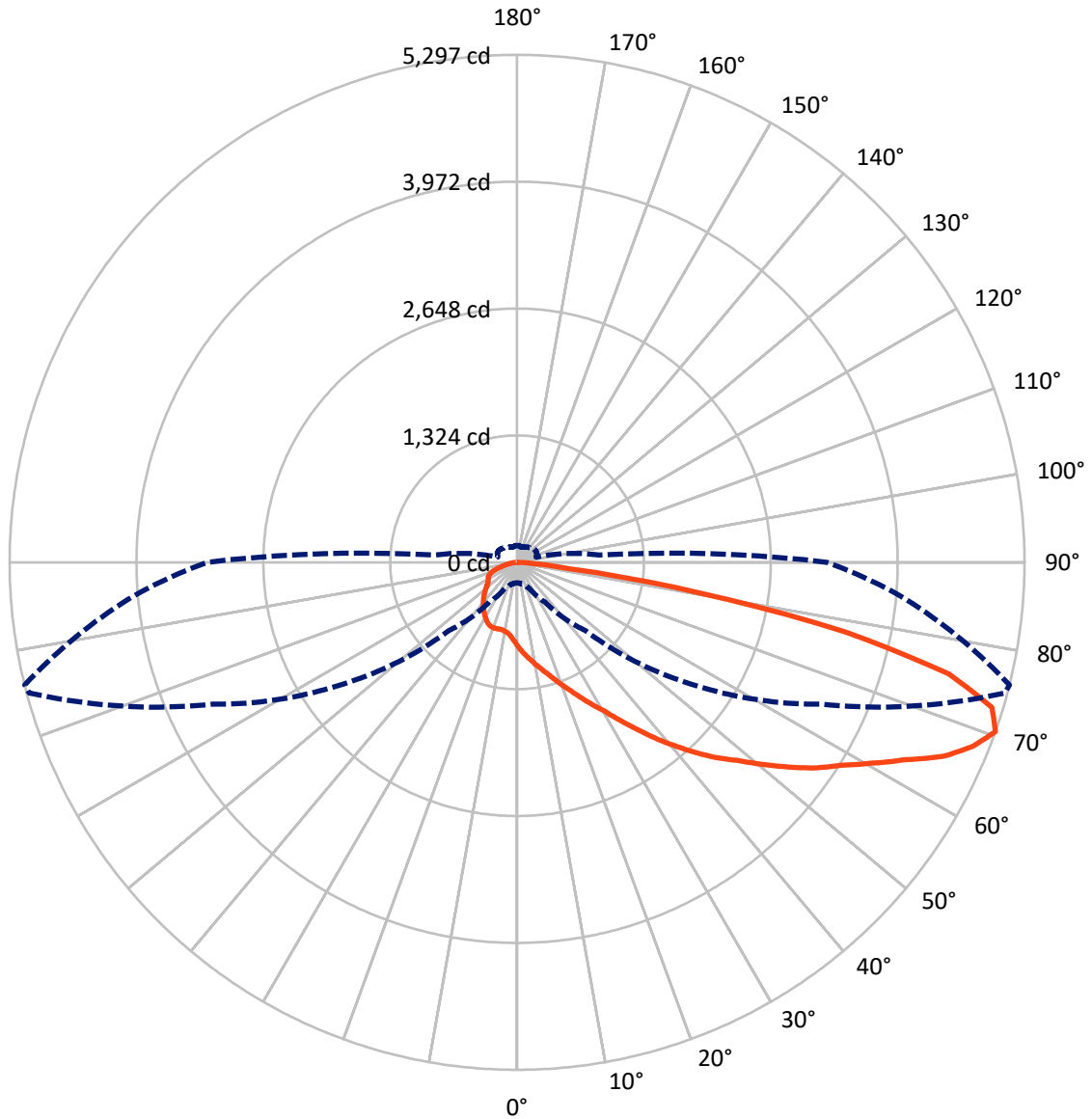
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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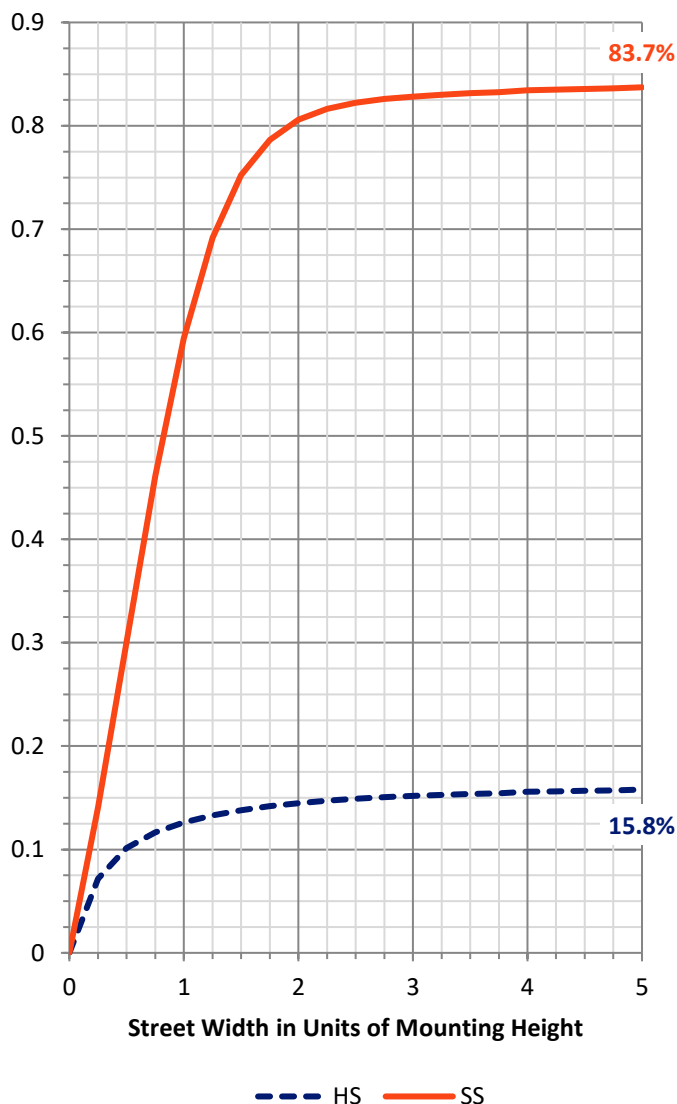
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1068.8 | 0.0 | 1068.8 |
| | % Fixture | 16.0 | 0.0 | 16.0 |
| Street Side | Lumens | 5595.1 | 0.0 | 5595.1 |
| | % Fixture | 84.0 | 0.0 | 84.0 |
| Total | Lumens | 6664.0 | 0.0 | 6664.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 85.2 | 1.3 |
| 10°-20° | 281.2 | 4.2 |
| 20°-30° | 518.1 | 7.8 |
| 30°-40° | 868.1 | 13.0 |
| 40°-50° | 1233.6 | 18.5 |
| 50°-60° | 1424.2 | 21.4 |
| 60°-70° | 1309.3 | 19.6 |
| 70°-80° | 825.5 | 12.4 |
| 80°-90° | 118.7 | 1.8 |
| 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° | 6664.0 | 100.0 |
| 0°-180° | 6664.0 | 100.0 |

Coefficient of Utilization

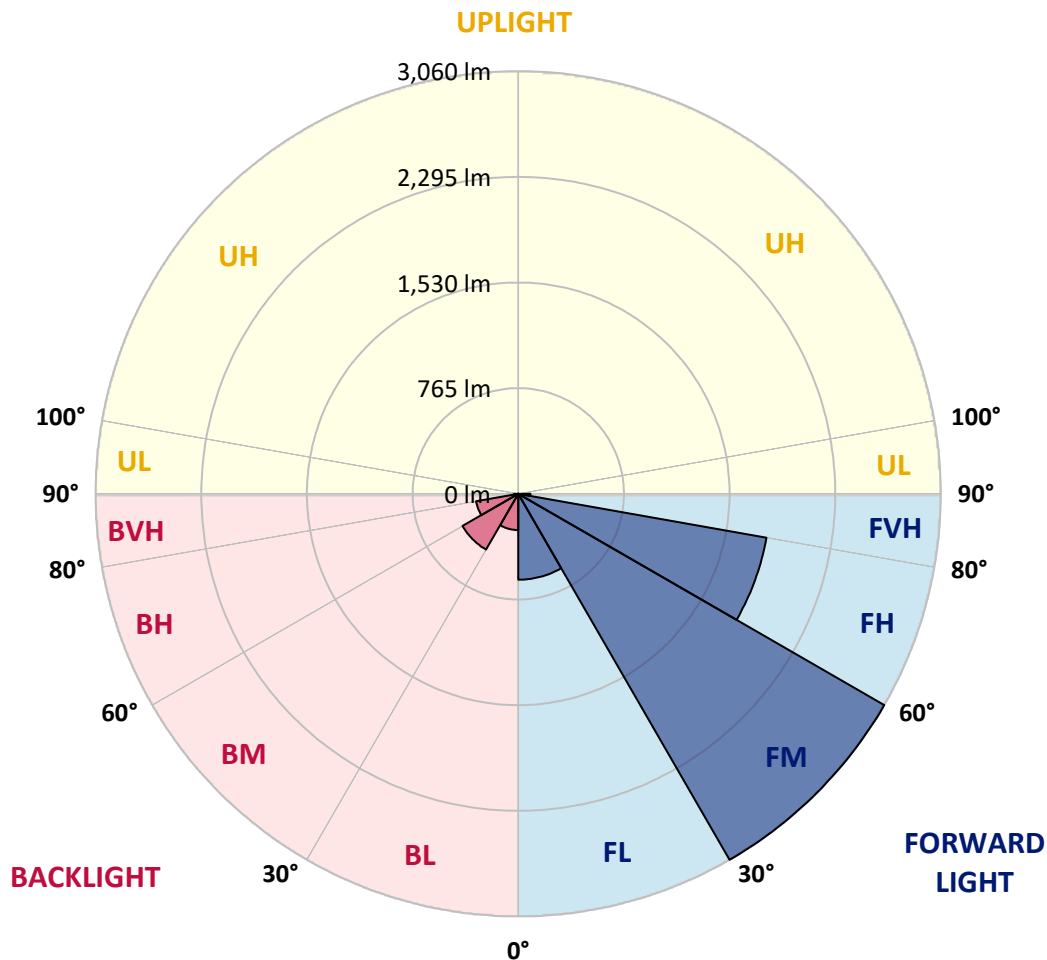


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 622.2 | 9.3 | | | |
| FM (30°-60°) | 3060.0 | 45.9 | | | |
| FH (60°-80°) | 1825.0 | 27.4 | | | G2/5000 |
| FVH (80°-90°) | 88.0 | 1.3 | | | G1/100 |
| BL (0°-30°) | 262.4 | 3.9 | B1/500 | | |
| BM (30°-60°) | 466.0 | 7.0 | B1/1000 | | |
| BH (60°-80°) | 309.8 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 30.7 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 874.2 | 874.2 | 874.2 | 874.2 | 874.2 | 874.2 | 874.2 | 874.2 | 874.2 | 874.2 | 874.2 |
| 2.5° | 1052.3 | 1050.7 | 1045.9 | 1037.8 | 1031.4 | 1012.2 | 986.5 | 964.0 | 930.4 | 927.2 | 893.5 |
| 5° | 1146.9 | 1140.5 | 1140.5 | 1132.5 | 1124.5 | 1103.6 | 1071.5 | 1031.4 | 983.3 | 980.1 | 915.9 |
| 7.5° | 1191.8 | 1193.4 | 1190.2 | 1183.8 | 1185.4 | 1167.8 | 1138.9 | 1098.8 | 1033.0 | 1029.8 | 946.4 |
| 10° | 1256.0 | 1254.4 | 1248.0 | 1243.2 | 1241.5 | 1225.5 | 1199.8 | 1162.9 | 1094.0 | 1087.6 | 981.7 |
| 12.5° | 1318.5 | 1313.7 | 1315.3 | 1313.7 | 1310.5 | 1294.5 | 1270.4 | 1233.5 | 1148.5 | 1145.3 | 1025.0 |
| 15° | 1353.8 | 1352.2 | 1363.5 | 1366.7 | 1379.5 | 1365.1 | 1344.2 | 1302.5 | 1225.5 | 1212.7 | 1076.3 |
| 17.5° | 1376.3 | 1374.7 | 1385.9 | 1411.6 | 1435.6 | 1435.6 | 1429.2 | 1384.3 | 1299.3 | 1289.7 | 1134.1 |
| 20° | 1414.8 | 1421.2 | 1440.5 | 1461.3 | 1496.6 | 1503.0 | 1501.4 | 1482.2 | 1384.3 | 1374.7 | 1198.2 |
| 22.5° | 1491.8 | 1488.6 | 1504.6 | 1536.7 | 1568.8 | 1578.4 | 1580.0 | 1580.0 | 1482.2 | 1464.5 | 1264.0 |
| 25° | 1657.0 | 1649.0 | 1636.1 | 1632.9 | 1671.4 | 1669.8 | 1665.0 | 1676.3 | 1584.8 | 1572.0 | 1339.4 |
| 27.5° | 1971.4 | 1953.8 | 1904.0 | 1804.6 | 1782.1 | 1790.1 | 1766.1 | 1767.7 | 1701.9 | 1685.9 | 1403.6 |
| 30° | 2269.8 | 2261.7 | 2215.2 | 2094.9 | 1968.2 | 1923.3 | 1881.6 | 1863.9 | 1831.8 | 1804.6 | 1472.5 |
| 32.5° | 2539.2 | 2540.8 | 2484.7 | 2353.2 | 2223.2 | 2082.1 | 2009.9 | 1973.0 | 1985.8 | 1961.8 | 1567.2 |
| 35° | 2722.1 | 2707.7 | 2672.4 | 2584.2 | 2443.0 | 2308.3 | 2170.3 | 2088.5 | 2157.5 | 2130.2 | 1661.8 |
| 37.5° | 2829.6 | 2818.3 | 2789.5 | 2726.9 | 2656.3 | 2526.4 | 2351.6 | 2226.4 | 2361.2 | 2321.1 | 1782.1 |
| 40° | 2884.1 | 2868.1 | 2839.2 | 2813.5 | 2779.9 | 2709.3 | 2555.3 | 2383.6 | 2547.3 | 2512.0 | 1900.8 |
| 42.5° | 2890.5 | 2879.3 | 2863.3 | 2850.4 | 2861.7 | 2852.0 | 2754.2 | 2566.5 | 2743.0 | 2704.5 | 2037.2 |
| 45° | 2885.7 | 2893.7 | 2874.5 | 2852.0 | 2874.5 | 2956.3 | 2956.3 | 2749.4 | 2937.0 | 2908.2 | 2167.1 |
| 47.5° | 2888.9 | 2880.9 | 2874.5 | 2868.1 | 2871.3 | 2983.6 | 3095.9 | 2921.0 | 3123.1 | 3089.4 | 2319.5 |
| 50° | 2755.8 | 2767.0 | 2821.6 | 2845.6 | 2860.1 | 2990.0 | 3208.1 | 3107.1 | 3354.1 | 3312.4 | 2489.5 |
| 52.5° | 2332.3 | 2338.7 | 2587.4 | 2767.0 | 2824.8 | 2964.3 | 3286.7 | 3314.0 | 3581.9 | 3549.8 | 2672.4 |
| 55° | 1796.6 | 1830.2 | 2066.0 | 2505.6 | 2744.6 | 2921.0 | 3310.8 | 3448.7 | 3814.5 | 3788.8 | 2856.8 |
| 57.5° | 1479.0 | 1483.8 | 1620.1 | 2013.1 | 2491.1 | 2880.9 | 3334.9 | 3572.3 | 4023.0 | 3994.1 | 3049.3 |
| 60° | 1227.1 | 1215.9 | 1299.3 | 1552.7 | 2069.2 | 2720.5 | 3339.7 | 3670.1 | 4265.2 | 4255.6 | 3248.2 |
| 62.5° | 901.5 | 914.3 | 994.5 | 1209.5 | 1618.5 | 2394.9 | 3315.6 | 3753.5 | 4554.0 | 4541.1 | 3469.6 |
| 65° | 553.4 | 569.4 | 667.3 | 864.6 | 1225.5 | 1900.8 | 3158.4 | 3796.8 | 4857.1 | 4886.0 | 3708.6 |
| 67.5° | 293.5 | 304.8 | 362.5 | 522.9 | 840.5 | 1448.5 | 2779.9 | 3742.3 | 5113.8 | 5126.6 | 3938.0 |
| 70° | 214.9 | 216.5 | 235.8 | 295.1 | 506.9 | 1007.4 | 2213.6 | 3504.9 | 5271.0 | 5296.6 | 4013.4 |
| 72.5° | 187.7 | 189.3 | 197.3 | 211.7 | 275.9 | 614.4 | 1586.4 | 3091.0 | 5205.2 | 5182.7 | 3886.7 |
| 75° | 170.0 | 170.0 | 176.4 | 181.3 | 202.1 | 340.1 | 972.1 | 2529.6 | 4703.1 | 4653.4 | 3314.0 |
| 77.5° | 146.0 | 146.0 | 152.4 | 158.8 | 174.8 | 219.8 | 508.5 | 1875.2 | 3596.3 | 3511.3 | 2266.5 |
| 80° | 117.1 | 117.1 | 125.1 | 133.1 | 154.0 | 165.2 | 248.6 | 1254.4 | 2056.4 | 1931.3 | 1031.4 |
| 82.5° | 80.2 | 86.6 | 101.1 | 110.7 | 128.3 | 117.1 | 146.0 | 542.2 | 648.0 | 561.4 | 232.6 |
| 85° | 48.1 | 51.3 | 72.2 | 83.4 | 96.2 | 62.6 | 89.8 | 208.5 | 194.1 | 170.0 | 52.9 |
| 87.5° | 4.8 | 8.0 | 28.9 | 33.7 | 33.7 | 17.6 | 38.5 | 49.7 | 56.1 | 57.7 | 12.8 |
| 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° | 874.2 | 874.2 | 874.2 | 874.2 | 874.2 | 874.2 | 874.2 | 874.2 | 874.2 | 874.2 | 874.2 |
| 2.5° | 874.2 | 855.0 | 818.1 | 784.4 | 750.7 | 728.2 | 705.8 | 697.8 | 686.5 | 678.5 | 684.9 |
| 5° | 882.2 | 842.1 | 771.6 | 712.2 | 672.1 | 641.6 | 627.2 | 619.2 | 612.8 | 611.2 | 609.5 |
| 7.5° | 891.9 | 832.5 | 737.9 | 672.1 | 633.6 | 619.2 | 616.0 | 616.0 | 616.0 | 617.6 | 619.2 |
| 10° | 912.7 | 835.7 | 720.2 | 649.6 | 628.8 | 625.6 | 627.2 | 633.6 | 633.6 | 635.2 | 635.2 |
| 12.5° | 936.8 | 843.7 | 707.4 | 646.4 | 633.6 | 635.2 | 636.8 | 640.0 | 640.0 | 644.8 | 643.2 |
| 15° | 972.1 | 859.8 | 705.8 | 649.6 | 638.4 | 635.2 | 635.2 | 633.6 | 633.6 | 633.6 | 636.8 |
| 17.5° | 1017.0 | 882.2 | 707.4 | 649.6 | 633.6 | 627.2 | 622.4 | 617.6 | 611.2 | 614.4 | 611.2 |
| 20° | 1061.9 | 909.5 | 707.4 | 641.6 | 620.8 | 604.7 | 590.3 | 582.3 | 574.3 | 572.7 | 574.3 |
| 22.5° | 1118.0 | 941.6 | 699.4 | 624.0 | 593.5 | 571.0 | 550.2 | 539.0 | 526.1 | 521.3 | 518.1 |
| 25° | 1166.2 | 967.3 | 683.3 | 598.3 | 563.0 | 530.9 | 503.7 | 484.4 | 468.4 | 465.2 | 465.2 |
| 27.5° | 1215.9 | 989.7 | 659.3 | 566.2 | 519.7 | 484.4 | 454.0 | 429.9 | 413.8 | 412.2 | 410.6 |
| 30° | 1262.4 | 1009.0 | 627.2 | 530.9 | 481.2 | 439.5 | 404.2 | 383.4 | 368.9 | 360.9 | 356.1 |
| 32.5° | 1323.4 | 1034.6 | 596.7 | 495.7 | 436.3 | 394.6 | 362.5 | 344.9 | 325.6 | 312.8 | 308.0 |
| 35° | 1400.4 | 1065.1 | 563.0 | 457.2 | 396.2 | 354.5 | 335.3 | 309.6 | 285.5 | 271.1 | 266.3 |
| 37.5° | 1487.0 | 1108.4 | 527.7 | 417.1 | 356.1 | 325.6 | 314.4 | 274.3 | 248.6 | 243.8 | 242.2 |
| 40° | 1594.4 | 1150.1 | 487.6 | 375.4 | 317.6 | 309.6 | 290.3 | 248.6 | 235.8 | 234.2 | 232.6 |
| 42.5° | 1701.9 | 1195.0 | 449.1 | 333.6 | 287.1 | 290.3 | 263.1 | 242.2 | 231.0 | 227.8 | 226.2 |
| 45° | 1827.0 | 1239.9 | 410.6 | 296.8 | 263.1 | 263.1 | 248.6 | 235.8 | 226.2 | 223.0 | 223.0 |
| 47.5° | 1958.6 | 1284.9 | 368.9 | 264.7 | 245.4 | 235.8 | 237.4 | 227.8 | 221.4 | 218.2 | 216.5 |
| 50° | 2123.8 | 1328.2 | 330.4 | 242.2 | 234.2 | 221.4 | 226.2 | 219.8 | 216.5 | 213.3 | 211.7 |
| 52.5° | 2279.4 | 1347.4 | 295.1 | 229.4 | 227.8 | 214.9 | 216.5 | 213.3 | 211.7 | 206.9 | 205.3 |
| 55° | 2431.8 | 1342.6 | 267.9 | 223.0 | 219.8 | 213.3 | 210.1 | 208.5 | 206.9 | 202.1 | 200.5 |
| 57.5° | 2601.8 | 1336.2 | 250.2 | 221.4 | 214.9 | 208.5 | 208.5 | 203.7 | 197.3 | 197.3 | 197.3 |
| 60° | 2778.2 | 1315.3 | 242.2 | 221.4 | 213.3 | 208.5 | 205.3 | 200.5 | 194.1 | 195.7 | 194.1 |
| 62.5° | 2977.2 | 1275.2 | 237.4 | 226.2 | 214.9 | 206.9 | 203.7 | 197.3 | 189.3 | 190.9 | 189.3 |
| 65° | 3152.0 | 1193.4 | 234.2 | 231.0 | 218.2 | 208.5 | 200.5 | 192.5 | 182.9 | 184.5 | 182.9 |
| 67.5° | 3270.7 | 1055.5 | 224.6 | 234.2 | 223.0 | 206.9 | 197.3 | 186.1 | 173.2 | 179.7 | 178.1 |
| 70° | 3237.0 | 858.2 | 206.9 | 227.8 | 227.8 | 208.5 | 192.5 | 178.1 | 163.6 | 176.4 | 171.6 |
| 72.5° | 2975.5 | 644.8 | 173.2 | 205.3 | 224.6 | 208.5 | 182.9 | 165.2 | 152.4 | 160.4 | 150.8 |
| 75° | 2443.0 | 437.9 | 137.9 | 163.6 | 210.1 | 210.1 | 174.8 | 152.4 | 136.3 | 131.5 | 128.3 |
| 77.5° | 1523.9 | 272.7 | 107.5 | 120.3 | 176.4 | 208.5 | 166.8 | 136.3 | 113.9 | 110.7 | 107.5 |
| 80° | 603.1 | 146.0 | 85.0 | 86.6 | 129.9 | 190.9 | 155.6 | 115.5 | 91.4 | 88.2 | 81.8 |
| 82.5° | 137.9 | 73.8 | 59.4 | 57.7 | 80.2 | 155.6 | 141.2 | 91.4 | 70.6 | 70.6 | 59.4 |
| 85° | 41.7 | 38.5 | 38.5 | 36.9 | 40.1 | 80.2 | 109.1 | 62.6 | 48.1 | 33.7 | 28.9 |
| 87.5° | 11.2 | 16.0 | 14.4 | 12.8 | 12.8 | 11.2 | 35.3 | 16.0 | 9.6 | 4.8 | 3.2 |
| 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)