

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: P595789

Luminaire Tested: **ISW-PA1E-735-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISW-PA1E-735-U-T3
Description: IMPACT ELITE LED WEDGE LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9448 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

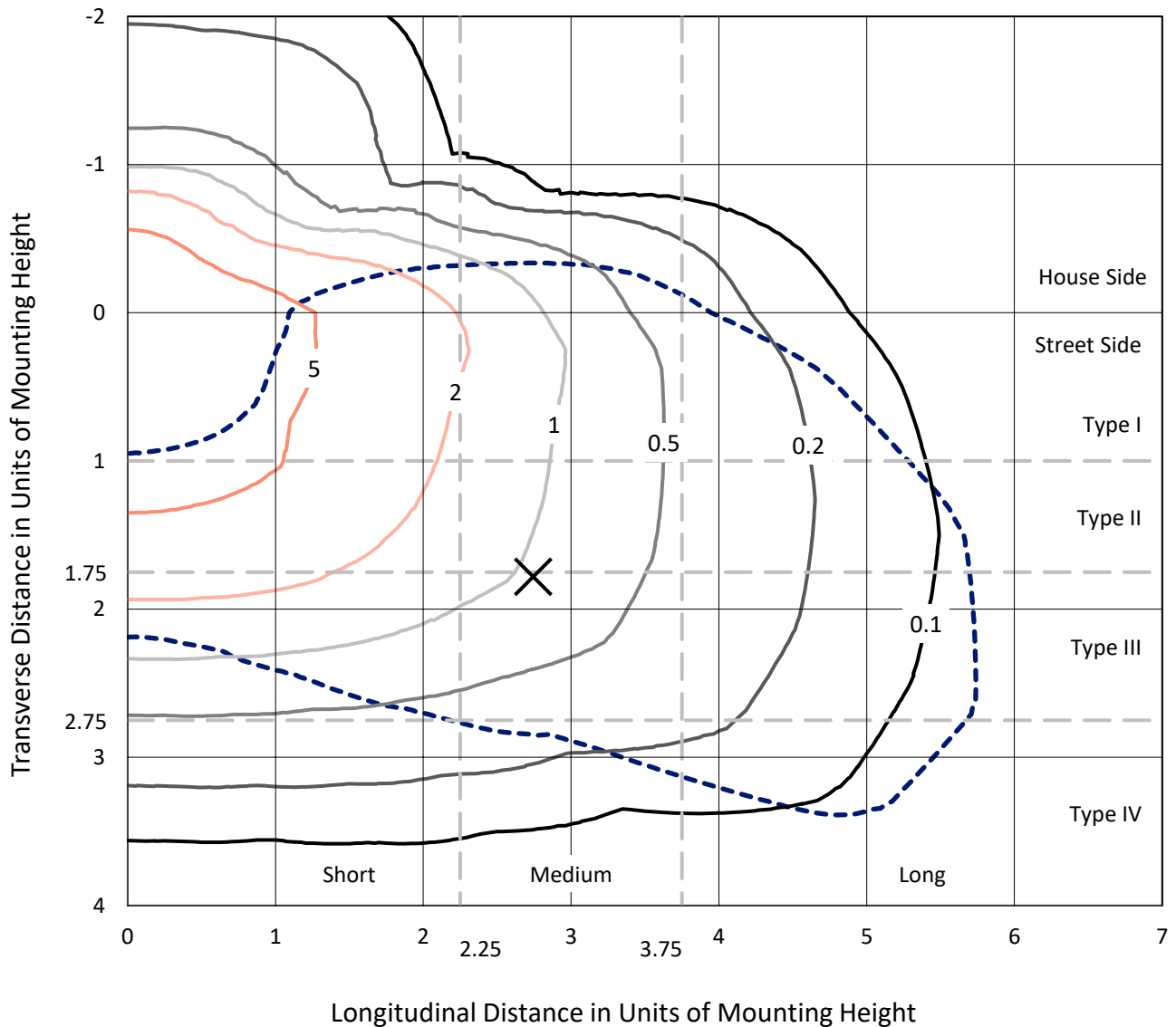
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

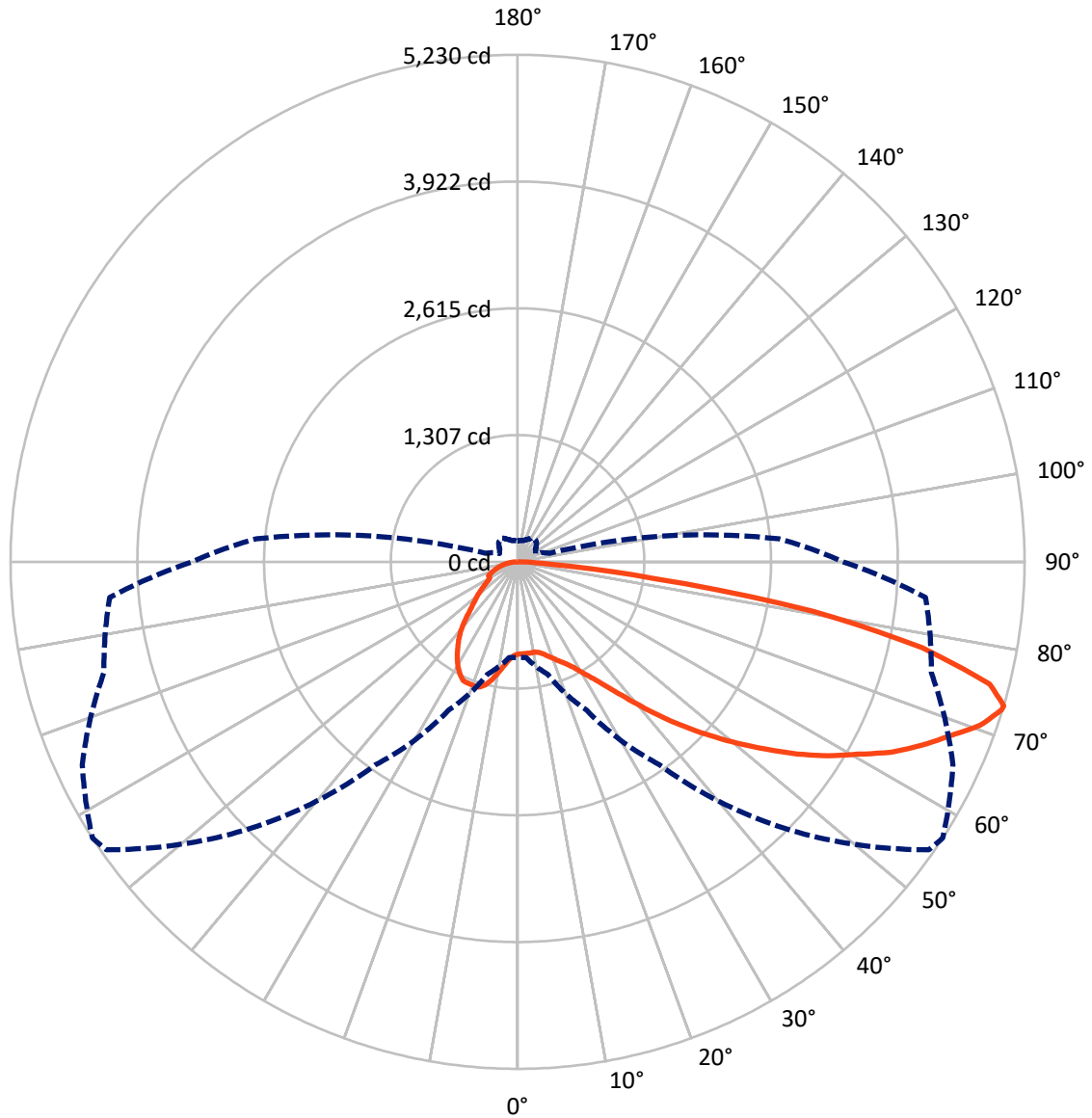
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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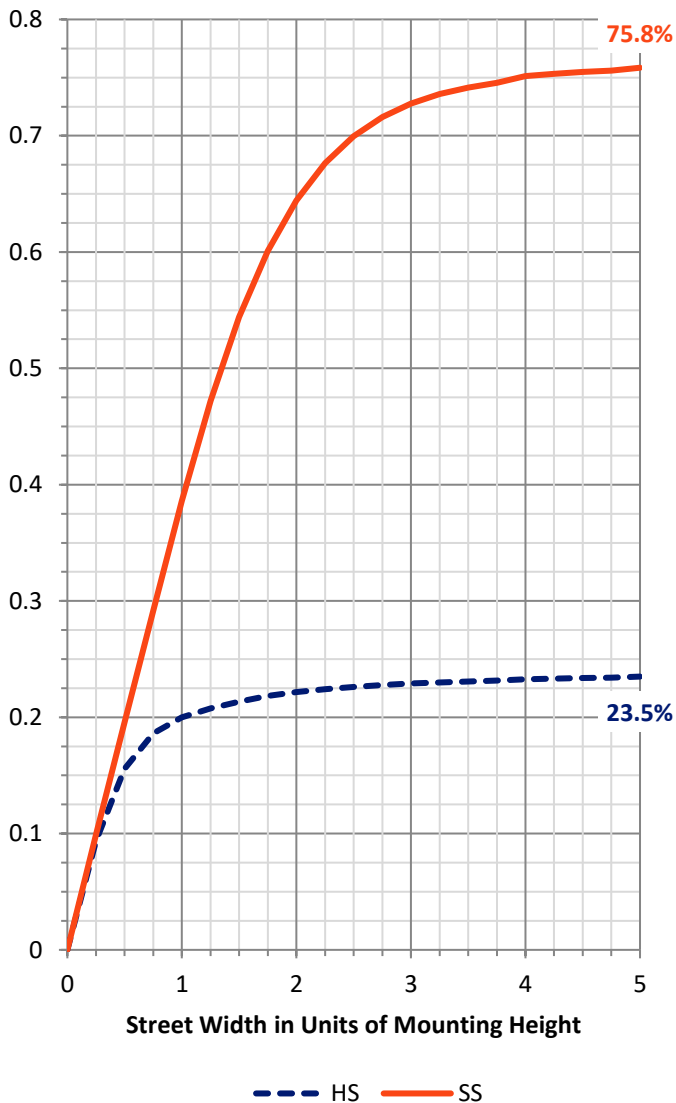
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2254.0 | 0.0 | 2254.0 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 7194.0 | 0.0 | 7194.0 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 9448.0 | 0.0 | 9448.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 95.0 | 1.0 |
| 10°-20° | 312.6 | 3.3 |
| 20°-30° | 577.0 | 6.1 |
| 30°-40° | 891.0 | 9.4 |
| 40°-50° | 1341.1 | 14.2 |
| 50°-60° | 1962.9 | 20.8 |
| 60°-70° | 2318.0 | 24.5 |
| 70°-80° | 1659.6 | 17.6 |
| 80°-90° | 290.8 | 3.1 |
| 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° | 9448.0 | 100.0 |
| 0°-180° | 9448.0 | 100.0 |

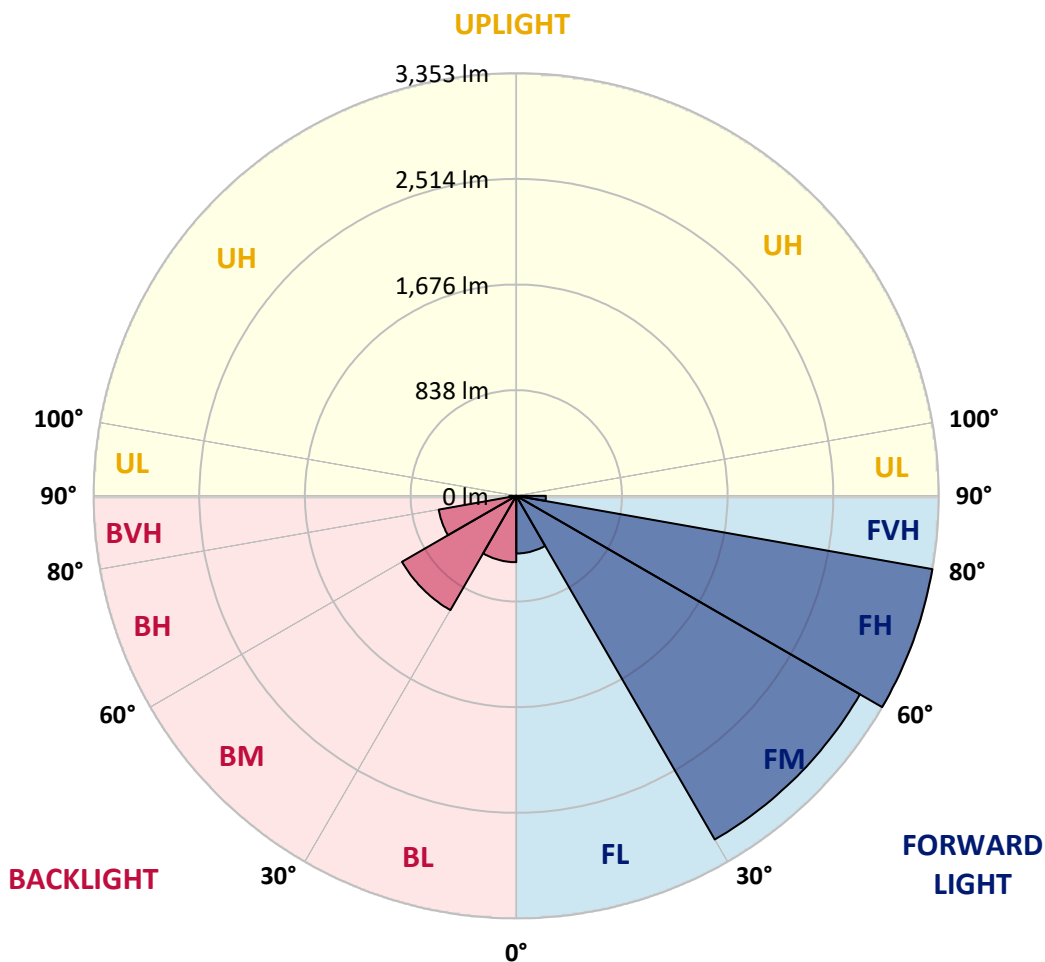


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 457.8 | 4.8 | | | |
| FM (30°-60°) | 3148.3 | 33.3 | | | |
| FH (60°-80°) | 3352.6 | 35.5 | | | G2/5000 |
| FVH (80°-90°) | 235.3 | 2.5 | | | G3/500 |
| BL (0°-30°) | 526.8 | 5.6 | B2/1000 | | |
| BM (30°-60°) | 1046.7 | 11.1 | B2/2500 | | |
| BH (60°-80°) | 624.9 | 6.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 55.5 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 951.9 | 951.9 | 951.9 | 951.9 | 951.9 | 951.9 | 951.9 | 951.9 | 951.9 | 951.9 | 951.9 |
| 2.5° | 940.3 | 944.9 | 942.6 | 944.9 | 951.9 | 947.3 | 947.3 | 949.6 | 951.9 | 949.6 | 954.2 |
| 5° | 900.9 | 903.3 | 907.9 | 917.1 | 933.4 | 938.0 | 949.6 | 949.6 | 954.2 | 958.8 | 965.8 |
| 7.5° | 836.1 | 840.7 | 850.0 | 859.2 | 887.0 | 914.8 | 944.9 | 949.6 | 965.8 | 977.4 | 982.0 |
| 10° | 824.5 | 829.1 | 831.5 | 845.4 | 873.1 | 900.9 | 938.0 | 947.3 | 977.4 | 995.9 | 1016.7 |
| 12.5° | 812.9 | 817.6 | 824.5 | 843.0 | 877.8 | 907.9 | 947.3 | 956.5 | 993.6 | 1030.6 | 1056.1 |
| 15° | 822.2 | 824.5 | 831.5 | 850.0 | 884.7 | 926.4 | 977.4 | 984.3 | 1026.0 | 1072.3 | 1111.7 |
| 17.5° | 845.4 | 847.7 | 845.4 | 861.6 | 894.0 | 942.6 | 1012.1 | 1023.7 | 1074.6 | 1121.0 | 1160.3 |
| 20° | 898.6 | 900.9 | 891.7 | 891.7 | 914.8 | 963.5 | 1049.2 | 1065.4 | 1127.9 | 1178.9 | 1218.2 |
| 22.5° | 1014.4 | 1009.8 | 986.6 | 956.5 | 956.5 | 995.9 | 1090.9 | 1114.0 | 1192.8 | 1234.4 | 1269.2 |
| 25° | 1178.9 | 1178.9 | 1141.8 | 1086.2 | 1049.2 | 1044.5 | 1139.5 | 1165.0 | 1257.6 | 1308.6 | 1329.4 |
| 27.5° | 1378.0 | 1380.4 | 1320.1 | 1246.0 | 1174.2 | 1139.5 | 1209.0 | 1234.4 | 1338.7 | 1391.9 | 1398.9 |
| 30° | 1554.1 | 1556.4 | 1496.2 | 1426.7 | 1338.7 | 1262.2 | 1301.6 | 1329.4 | 1449.8 | 1491.5 | 1468.4 |
| 32.5° | 1730.1 | 1732.4 | 1690.7 | 1595.7 | 1503.1 | 1408.1 | 1419.7 | 1435.9 | 1558.7 | 1598.1 | 1561.0 |
| 35° | 1882.9 | 1889.9 | 1848.2 | 1776.4 | 1679.1 | 1593.4 | 1572.6 | 1574.9 | 1686.1 | 1711.5 | 1662.9 |
| 37.5° | 2038.1 | 2038.1 | 2012.6 | 1945.5 | 1862.1 | 1767.1 | 1739.3 | 1746.3 | 1845.9 | 1871.4 | 1801.9 |
| 40° | 2235.0 | 2244.2 | 2230.3 | 2147.0 | 2052.0 | 1973.3 | 1945.5 | 1954.7 | 2063.6 | 2049.7 | 1975.6 |
| 42.5° | 2473.5 | 2494.4 | 2471.2 | 2380.9 | 2279.0 | 2191.0 | 2191.0 | 2191.0 | 2283.6 | 2285.9 | 2174.8 |
| 45° | 2779.2 | 2779.2 | 2756.1 | 2677.3 | 2543.0 | 2455.0 | 2424.9 | 2431.8 | 2512.9 | 2522.2 | 2392.5 |
| 47.5° | 3034.0 | 3057.2 | 3031.7 | 2973.8 | 2867.3 | 2783.9 | 2688.9 | 2677.3 | 2744.5 | 2744.5 | 2633.3 |
| 50° | 3240.1 | 3281.8 | 3261.0 | 3286.5 | 3210.0 | 3168.3 | 2973.8 | 2941.4 | 2964.5 | 2987.7 | 2864.9 |
| 52.5° | 3411.5 | 3443.9 | 3437.0 | 3511.1 | 3548.2 | 3571.3 | 3263.3 | 3212.3 | 3230.9 | 3228.6 | 3117.4 |
| 55° | 3423.1 | 3434.7 | 3538.9 | 3705.7 | 3851.6 | 3960.4 | 3555.1 | 3499.5 | 3481.0 | 3471.7 | 3386.0 |
| 57.5° | 3355.9 | 3362.9 | 3571.3 | 3768.2 | 4085.5 | 4210.6 | 3830.7 | 3775.1 | 3749.7 | 3717.2 | 3682.5 |
| 60° | 3193.8 | 3228.6 | 3501.8 | 3805.2 | 4224.4 | 4405.1 | 4087.8 | 4029.9 | 4011.4 | 3941.9 | 4020.6 |
| 62.5° | 2987.7 | 3003.9 | 3277.2 | 3728.8 | 4243.0 | 4488.5 | 4358.8 | 4324.0 | 4266.1 | 4166.5 | 4321.7 |
| 65° | 2695.9 | 2693.5 | 2934.4 | 3504.2 | 4148.0 | 4530.2 | 4588.1 | 4569.5 | 4497.7 | 4326.4 | 4590.4 |
| 67.5° | 2214.1 | 2267.4 | 2503.6 | 3105.8 | 3918.7 | 4571.9 | 4822.0 | 4798.8 | 4685.3 | 4469.9 | 4717.8 |
| 70° | 1688.4 | 1720.8 | 1989.5 | 2508.3 | 3462.5 | 4458.4 | 5051.3 | 5058.2 | 4852.1 | 4500.1 | 4662.2 |
| 72.5° | 1077.0 | 1132.5 | 1345.6 | 1827.4 | 2772.3 | 4036.8 | 5187.9 | 5220.3 | 4944.7 | 4458.4 | 4317.1 |
| 73° | 986.6 | 991.3 | 1199.7 | 1690.7 | 2556.9 | 3886.3 | 5178.7 | 5229.6 | 4954.0 | 4416.7 | 4222.1 |
| 75° | 588.3 | 613.7 | 738.8 | 1123.3 | 1825.0 | 3122.0 | 4928.5 | 5030.4 | 4905.4 | 4231.4 | 3701.0 |
| 77.5° | 275.6 | 294.1 | 363.6 | 592.9 | 993.6 | 1878.3 | 4143.4 | 4263.8 | 4347.2 | 3703.3 | 2820.9 |
| 80° | 145.9 | 148.2 | 178.3 | 298.8 | 532.7 | 773.6 | 2888.1 | 3087.3 | 3205.4 | 2788.5 | 1896.8 |
| 82.5° | 122.7 | 122.7 | 139.0 | 192.2 | 340.5 | 301.1 | 1190.4 | 1417.4 | 1737.0 | 1373.4 | 745.8 |
| 85° | 99.6 | 101.9 | 139.0 | 143.6 | 243.2 | 155.2 | 284.9 | 356.7 | 674.0 | 606.8 | 83.4 |
| 87.5° | 32.4 | 37.1 | 78.7 | 101.9 | 129.7 | 60.2 | 71.8 | 78.7 | 78.7 | 115.8 | 27.8 |
| 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° | 951.9 | 951.9 | 951.9 | 951.9 | 951.9 | 951.9 | 951.9 | 951.9 | 951.9 | 951.9 | 951.9 |
| 2.5° | 956.5 | 956.5 | 958.8 | 961.2 | 965.8 | 965.8 | 970.4 | 972.7 | 977.4 | 979.7 | 972.7 |
| 5° | 965.8 | 970.4 | 975.1 | 988.9 | 1005.2 | 1019.1 | 1033.0 | 1044.5 | 1056.1 | 1063.1 | 1060.7 |
| 7.5° | 991.3 | 998.2 | 1016.7 | 1042.2 | 1074.6 | 1095.5 | 1116.3 | 1137.2 | 1146.4 | 1151.1 | 1151.1 |
| 10° | 1026.0 | 1039.9 | 1074.6 | 1116.3 | 1153.4 | 1185.8 | 1202.0 | 1215.9 | 1220.6 | 1225.2 | 1220.6 |
| 12.5° | 1074.6 | 1093.2 | 1146.4 | 1199.7 | 1241.4 | 1257.6 | 1255.3 | 1236.8 | 1211.3 | 1206.7 | 1202.0 |
| 15° | 1137.2 | 1160.3 | 1220.6 | 1283.1 | 1315.5 | 1294.7 | 1241.4 | 1222.9 | 1218.2 | 1232.1 | 1227.5 |
| 17.5° | 1190.4 | 1218.2 | 1292.3 | 1357.2 | 1350.2 | 1278.5 | 1262.2 | 1271.5 | 1266.9 | 1269.2 | 1269.2 |
| 20° | 1241.4 | 1280.8 | 1359.5 | 1403.5 | 1343.3 | 1297.0 | 1283.1 | 1271.5 | 1257.6 | 1262.2 | 1257.6 |
| 22.5° | 1306.2 | 1334.0 | 1424.4 | 1426.7 | 1334.0 | 1297.0 | 1266.9 | 1243.7 | 1239.1 | 1241.4 | 1243.7 |
| 25° | 1357.2 | 1401.2 | 1479.9 | 1410.5 | 1334.0 | 1259.9 | 1218.2 | 1213.6 | 1215.9 | 1229.8 | 1225.2 |
| 27.5° | 1426.7 | 1470.7 | 1524.0 | 1401.2 | 1278.5 | 1199.7 | 1183.5 | 1181.2 | 1165.0 | 1169.6 | 1169.6 |
| 30° | 1491.5 | 1544.8 | 1547.1 | 1401.2 | 1209.0 | 1148.8 | 1125.6 | 1083.9 | 1049.2 | 1056.1 | 1053.8 |
| 32.5° | 1579.5 | 1625.9 | 1551.7 | 1345.6 | 1130.2 | 1081.6 | 1019.1 | 954.2 | 938.0 | 947.3 | 949.6 |
| 35° | 1681.4 | 1718.5 | 1556.4 | 1253.0 | 1051.5 | 986.6 | 873.1 | 836.1 | 833.8 | 840.7 | 847.7 |
| 37.5° | 1815.8 | 1836.6 | 1591.1 | 1146.4 | 975.1 | 838.4 | 750.4 | 741.1 | 720.3 | 706.4 | 708.7 |
| 40° | 1980.2 | 1954.7 | 1658.3 | 1051.5 | 884.7 | 704.1 | 667.0 | 641.5 | 602.2 | 562.8 | 569.7 |
| 42.5° | 2163.2 | 2091.4 | 1679.1 | 975.1 | 762.0 | 620.7 | 586.0 | 546.6 | 497.9 | 456.3 | 453.9 |
| 45° | 2360.0 | 2244.2 | 1660.6 | 914.8 | 639.2 | 558.2 | 521.1 | 474.8 | 416.9 | 382.1 | 382.1 |
| 47.5° | 2594.0 | 2390.1 | 1602.7 | 866.2 | 553.5 | 502.6 | 456.3 | 409.9 | 370.6 | 338.1 | 338.1 |
| 50° | 2851.0 | 2559.2 | 1561.0 | 780.5 | 493.3 | 449.3 | 403.0 | 365.9 | 335.8 | 310.3 | 310.3 |
| 52.5° | 3122.0 | 2719.0 | 1526.3 | 655.4 | 440.0 | 400.7 | 368.2 | 338.1 | 312.7 | 280.2 | 275.6 |
| 55° | 3397.6 | 2871.9 | 1542.5 | 535.0 | 391.4 | 365.9 | 345.1 | 315.0 | 305.7 | 298.8 | 294.1 |
| 57.5° | 3684.8 | 3038.6 | 1581.9 | 437.7 | 349.7 | 347.4 | 338.1 | 359.0 | 379.8 | 365.9 | 359.0 |
| 60° | 3909.5 | 3168.3 | 1586.5 | 368.2 | 324.2 | 365.9 | 412.3 | 419.2 | 363.6 | 331.2 | 328.9 |
| 62.5° | 4087.8 | 3291.1 | 1477.6 | 319.6 | 331.2 | 430.8 | 440.0 | 370.6 | 315.0 | 301.1 | 301.1 |
| 65° | 4180.4 | 3335.1 | 1188.1 | 291.8 | 345.1 | 412.3 | 398.4 | 333.5 | 294.1 | 291.8 | 291.8 |
| 67.5° | 4134.1 | 3300.3 | 831.5 | 261.7 | 305.7 | 356.7 | 356.7 | 305.7 | 271.0 | 282.6 | 277.9 |
| 70° | 3911.8 | 3129.0 | 548.9 | 236.2 | 268.7 | 321.9 | 331.2 | 284.9 | 252.4 | 259.4 | 252.4 |
| 72.5° | 3448.6 | 2823.2 | 361.3 | 208.4 | 231.6 | 284.9 | 308.0 | 261.7 | 231.6 | 229.3 | 222.3 |
| 73° | 3358.2 | 2707.4 | 340.5 | 203.8 | 224.7 | 275.6 | 301.1 | 257.1 | 227.0 | 220.0 | 215.4 |
| 75° | 2848.7 | 2258.1 | 257.1 | 183.0 | 199.2 | 247.8 | 280.2 | 240.9 | 208.4 | 199.2 | 194.5 |
| 77.5° | 2075.2 | 1565.6 | 192.2 | 155.2 | 166.8 | 215.4 | 247.8 | 220.0 | 185.3 | 173.7 | 171.4 |
| 80° | 1294.7 | 852.3 | 143.6 | 125.1 | 132.0 | 180.7 | 217.7 | 196.9 | 159.8 | 145.9 | 143.6 |
| 82.5° | 507.2 | 277.9 | 99.6 | 92.6 | 97.3 | 136.6 | 183.0 | 171.4 | 134.3 | 122.7 | 115.8 |
| 85° | 83.4 | 95.0 | 64.8 | 62.5 | 62.5 | 97.3 | 139.0 | 132.0 | 90.3 | 78.7 | 69.5 |
| 87.5° | 23.2 | 44.0 | 25.5 | 23.2 | 23.2 | 41.7 | 76.4 | 60.2 | 37.1 | 30.1 | 27.8 |
| 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)