

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: P595292

Luminaire Tested: **IST-PA1E-735-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595292
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: IST-PA1E-735-U-T2U
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 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: 9550 lumens
Efficiency: N/A
Efficacy: 117.2 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

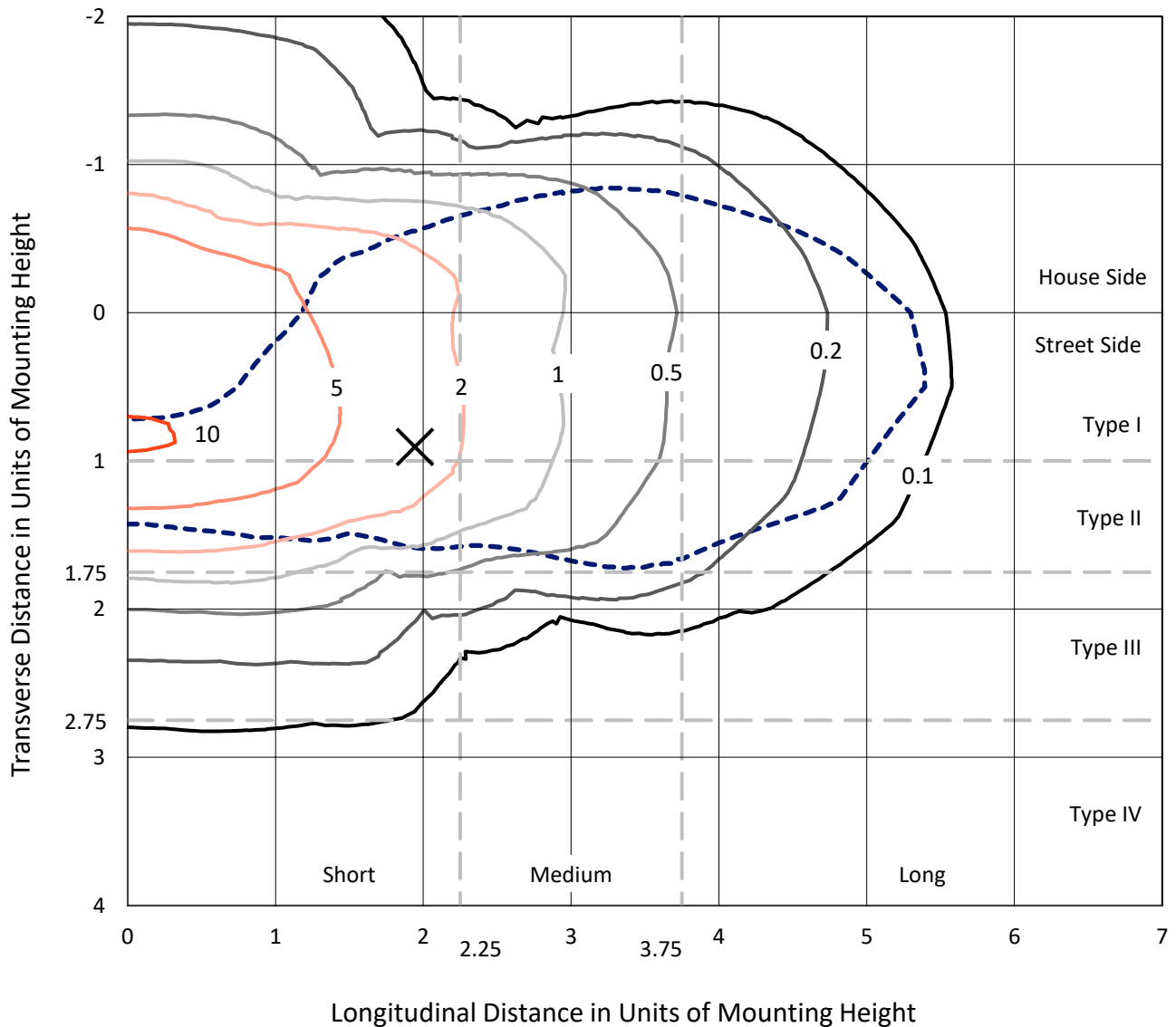
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

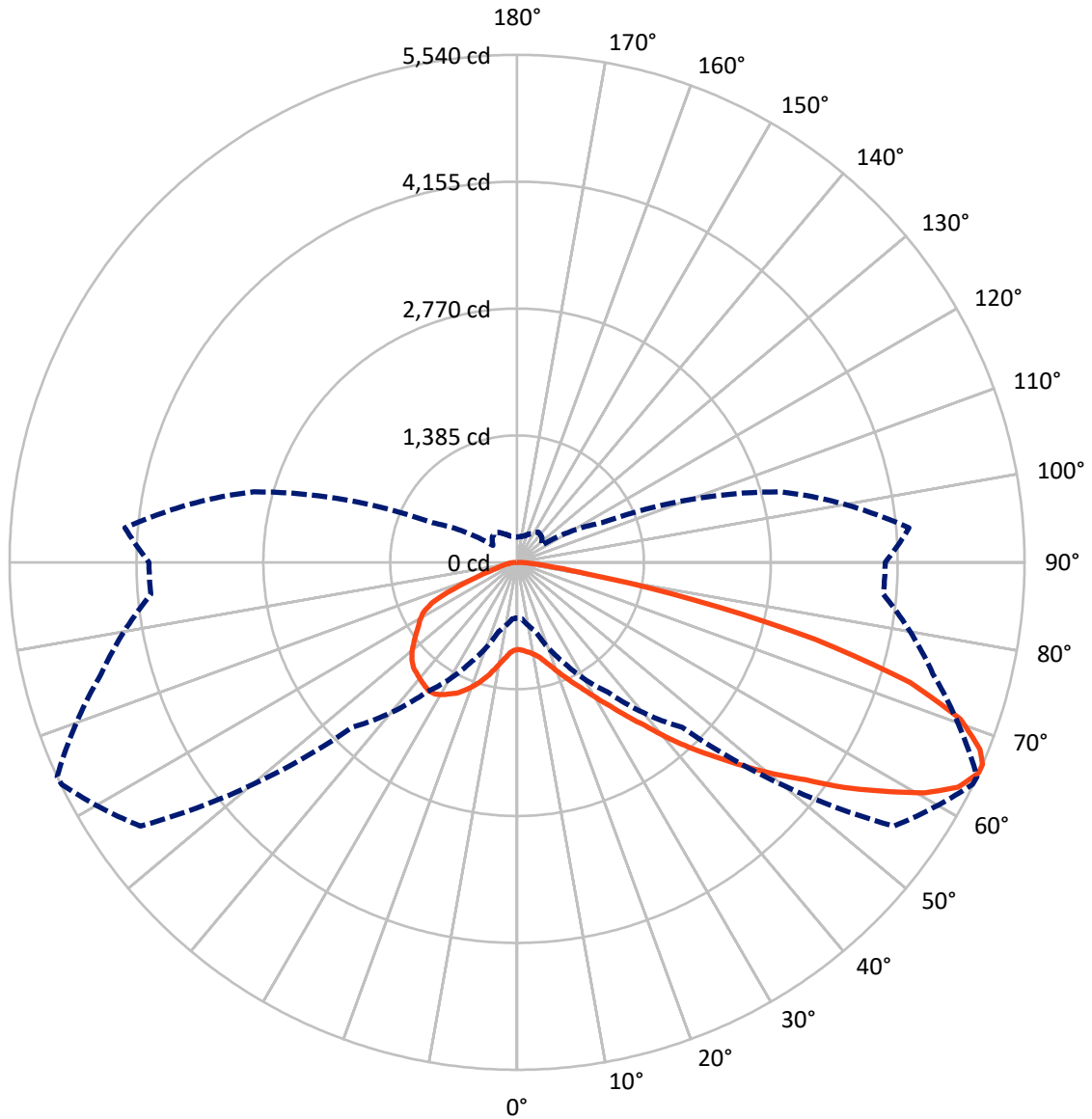
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.6 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 | 2899.8 | 0.0 | 2899.8 |
| | % Fixture | 30.4 | 0.0 | 30.4 |
| Street Side | Lumens | 6650.2 | 0.0 | 6650.2 |
| | % Fixture | 69.6 | 0.0 | 69.6 |
| Total | Lumens | 9550.0 | 0.0 | 9550.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 97.1 | 1.0 |
| 10°-20° | 338.5 | 3.5 |
| 20°-30° | 662.9 | 6.9 |
| 30°-40° | 1083.1 | 11.3 |
| 40°-50° | 1719.2 | 18.0 |
| 50°-60° | 2211.2 | 23.2 |
| 60°-70° | 1994.0 | 20.9 |
| 70°-80° | 1236.8 | 13.0 |
| 80°-90° | 207.2 | 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° | 9550.0 | 100.0 |
| 0°-180° | 9550.0 | 100.0 |

Coefficient of Utilization



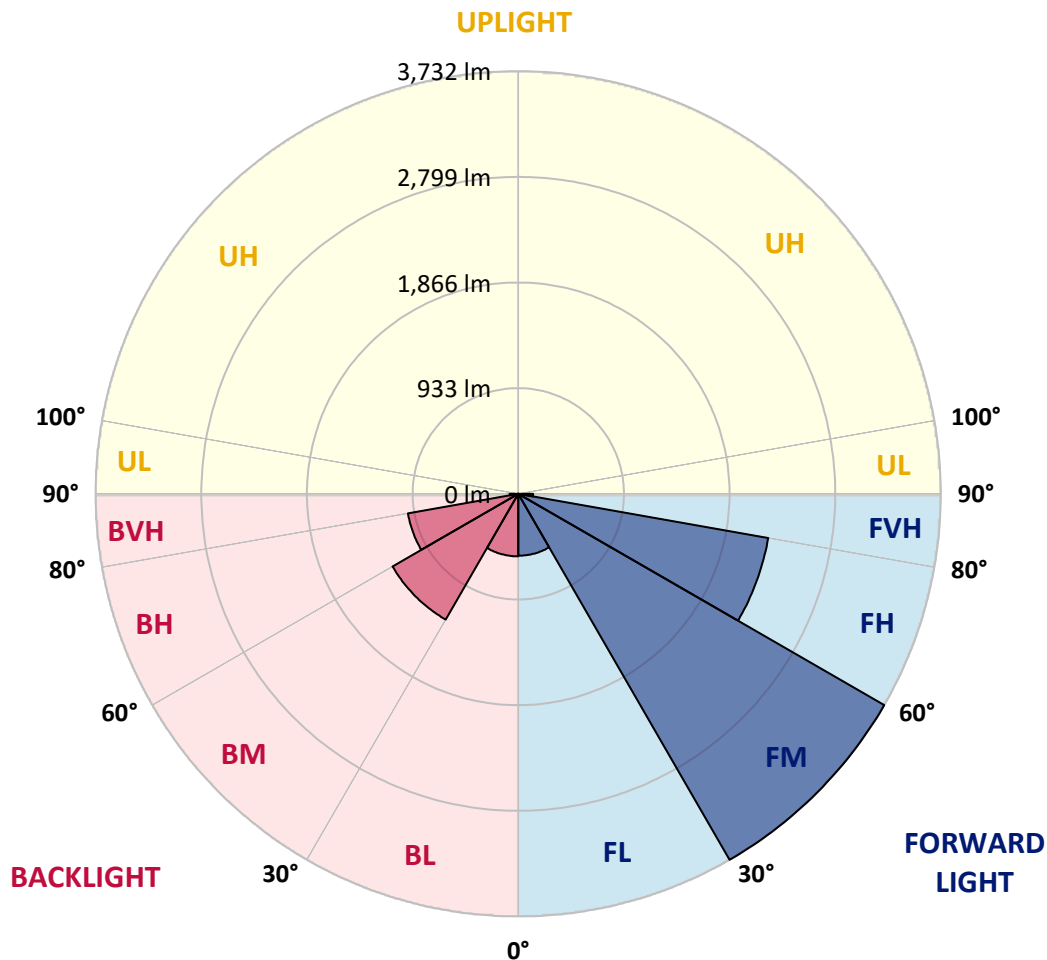
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 546.1 | 5.7 | | | |
| FM (30°-60°) | 3731.6 | 39.1 | | | |
| FH (60°-80°) | 2241.4 | 23.5 | | | G2/5000 |
| FVH (80°-90°) | 131.1 | 1.4 | | | G2/225 |
| BL (0°-30°) | 552.3 | 5.8 | B2/1000 | | |
| BM (30°-60°) | 1281.9 | 13.4 | B2/2500 | | |
| BH (60°-80°) | 989.4 | 10.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 76.1 | 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° | 951.9 | 951.9 | 951.9 | 951.9 | 951.9 | 951.9 | 951.9 | 951.9 | 951.9 | 951.9 | 951.9 |
| 2.5° | 954.2 | 956.5 | 958.9 | 954.2 | 958.9 | 961.2 | 956.5 | 956.5 | 958.9 | 954.2 | 954.2 |
| 5° | 947.3 | 949.6 | 954.2 | 956.5 | 965.8 | 970.4 | 972.8 | 972.8 | 975.1 | 972.8 | 975.1 |
| 7.5° | 928.7 | 928.7 | 938.0 | 942.6 | 956.5 | 972.8 | 982.0 | 995.9 | 995.9 | 998.2 | 1005.2 |
| 10° | 947.3 | 947.3 | 954.2 | 961.2 | 972.8 | 986.6 | 1000.5 | 1016.8 | 1021.4 | 1037.6 | 1046.9 |
| 12.5° | 975.1 | 979.7 | 989.0 | 998.2 | 1012.1 | 1028.3 | 1039.9 | 1056.1 | 1058.4 | 1074.7 | 1093.2 |
| 15° | 1021.4 | 1026.0 | 1030.7 | 1042.2 | 1060.8 | 1081.6 | 1102.5 | 1114.0 | 1118.7 | 1127.9 | 1141.8 |
| 17.5° | 1090.9 | 1095.5 | 1097.8 | 1104.8 | 1118.7 | 1146.5 | 1176.6 | 1185.8 | 1190.5 | 1190.5 | 1202.0 |
| 20° | 1209.0 | 1206.7 | 1202.0 | 1188.1 | 1188.1 | 1213.6 | 1255.3 | 1271.5 | 1276.2 | 1266.9 | 1259.9 |
| 22.5° | 1345.6 | 1343.3 | 1324.8 | 1308.6 | 1297.0 | 1301.6 | 1343.3 | 1371.1 | 1368.8 | 1350.3 | 1322.5 |
| 25° | 1524.0 | 1528.6 | 1498.5 | 1456.8 | 1422.1 | 1412.8 | 1438.3 | 1466.1 | 1470.7 | 1436.0 | 1389.6 |
| 27.5° | 1737.1 | 1730.1 | 1713.9 | 1646.7 | 1579.6 | 1537.9 | 1551.8 | 1581.9 | 1584.2 | 1547.1 | 1473.0 |
| 30° | 1987.2 | 1975.6 | 1933.9 | 1864.4 | 1760.2 | 1702.3 | 1690.7 | 1716.2 | 1723.2 | 1660.6 | 1554.1 |
| 32.5° | 2265.1 | 2253.5 | 2200.3 | 2093.7 | 1980.2 | 1883.0 | 1845.9 | 1880.7 | 1876.0 | 1804.2 | 1656.0 |
| 35° | 2601.0 | 2598.6 | 2501.4 | 2369.3 | 2225.8 | 2096.0 | 2045.1 | 2045.1 | 2059.0 | 1952.5 | 1785.7 |
| 37.5° | 3050.3 | 3068.8 | 2925.2 | 2719.1 | 2517.6 | 2343.9 | 2258.2 | 2253.5 | 2255.9 | 2140.1 | 1931.6 |
| 40° | 3455.6 | 3448.6 | 3365.3 | 3173.0 | 2878.9 | 2656.5 | 2529.2 | 2501.4 | 2508.3 | 2360.1 | 2121.5 |
| 42.5° | 3689.5 | 3696.5 | 3675.6 | 3592.2 | 3335.2 | 3054.9 | 2837.2 | 2763.1 | 2765.4 | 2580.1 | 2302.2 |
| 45° | 3835.4 | 3842.4 | 3840.1 | 3881.7 | 3779.8 | 3515.8 | 3205.5 | 3034.1 | 3024.8 | 2830.2 | 2515.3 |
| 47.5° | 3918.8 | 3923.4 | 3953.5 | 4039.2 | 4122.6 | 4062.4 | 3613.1 | 3335.2 | 3316.6 | 3064.2 | 2728.3 |
| 50° | 3826.2 | 3828.5 | 3948.9 | 4152.7 | 4356.5 | 4539.5 | 4030.0 | 3633.9 | 3629.3 | 3323.6 | 2936.8 |
| 52.5° | 3339.8 | 3381.5 | 3647.8 | 4074.0 | 4530.2 | 4877.7 | 4511.7 | 3986.0 | 3946.6 | 3569.1 | 3145.2 |
| 55° | 2726.0 | 2744.6 | 3050.3 | 3592.2 | 4497.8 | 5086.1 | 4875.3 | 4365.8 | 4338.0 | 3842.4 | 3349.0 |
| 57.5° | 2128.5 | 2147.0 | 2510.6 | 2962.3 | 4002.2 | 5074.5 | 5132.4 | 4775.8 | 4713.2 | 4080.9 | 3552.9 |
| 60° | 1373.4 | 1431.3 | 1852.9 | 2408.7 | 3240.2 | 4722.5 | 5262.1 | 5169.5 | 5111.6 | 4317.2 | 3726.6 |
| 62.5° | 933.4 | 942.6 | 1206.7 | 1785.7 | 2424.9 | 3837.7 | 5252.9 | 5412.7 | 5403.4 | 4553.4 | 3900.3 |
| 65° | 606.8 | 620.7 | 780.5 | 1209.0 | 1734.7 | 2547.7 | 5021.3 | 5530.8 | 5540.1 | 4699.3 | 4013.8 |
| 66° | 514.2 | 523.4 | 646.2 | 1016.8 | 1519.3 | 2019.6 | 4817.4 | 5521.5 | 5540.1 | 4766.5 | 4048.5 |
| 67.5° | 447.0 | 454.0 | 516.5 | 750.4 | 1241.4 | 1452.2 | 4287.1 | 5398.8 | 5452.0 | 4829.0 | 4092.5 |
| 70° | 384.5 | 393.7 | 451.6 | 511.9 | 887.1 | 847.7 | 2714.4 | 5083.8 | 5137.1 | 4859.1 | 4120.3 |
| 72.5° | 317.3 | 324.3 | 382.2 | 463.2 | 643.9 | 569.8 | 1197.4 | 4351.9 | 4486.2 | 4748.0 | 4076.3 |
| 75° | 250.1 | 254.8 | 308.0 | 386.8 | 493.3 | 444.7 | 521.1 | 3191.6 | 3360.6 | 4185.2 | 3904.9 |
| 77.5° | 194.6 | 196.9 | 238.6 | 301.1 | 451.6 | 345.1 | 321.9 | 1554.1 | 1966.3 | 3233.2 | 3439.4 |
| 80° | 134.3 | 139.0 | 176.0 | 227.0 | 331.2 | 273.3 | 215.4 | 606.8 | 771.3 | 2147.0 | 2607.9 |
| 82.5° | 88.0 | 90.3 | 120.4 | 171.4 | 220.0 | 261.7 | 141.3 | 294.1 | 324.3 | 989.0 | 1130.2 |
| 85° | 60.2 | 60.2 | 85.7 | 106.5 | 150.5 | 173.7 | 92.6 | 155.2 | 169.1 | 375.2 | 136.6 |
| 87.5° | 30.1 | 30.1 | 41.7 | 55.6 | 71.8 | 67.2 | 55.6 | 55.6 | 55.6 | 122.8 | 39.4 |
| 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 | 958.9 | 961.2 | 963.5 | 963.5 | 965.8 | 965.8 | 963.5 | 965.8 | 968.1 |
| 5° | 977.4 | 979.7 | 984.3 | 991.3 | 1002.9 | 1014.4 | 1026.0 | 1033.0 | 1039.9 | 1042.2 | 1037.6 |
| 7.5° | 1009.8 | 1014.4 | 1030.7 | 1049.2 | 1067.7 | 1095.5 | 1111.7 | 1121.0 | 1125.6 | 1130.2 | 1125.6 |
| 10° | 1051.5 | 1060.8 | 1083.9 | 1116.3 | 1148.8 | 1183.5 | 1202.0 | 1215.9 | 1218.3 | 1222.9 | 1218.3 |
| 12.5° | 1100.1 | 1116.3 | 1151.1 | 1197.4 | 1236.8 | 1271.5 | 1285.4 | 1276.2 | 1255.3 | 1246.0 | 1243.7 |
| 15° | 1158.0 | 1174.3 | 1222.9 | 1280.8 | 1327.1 | 1343.3 | 1322.5 | 1292.4 | 1269.2 | 1266.9 | 1264.6 |
| 17.5° | 1209.0 | 1232.2 | 1299.3 | 1359.5 | 1403.5 | 1387.3 | 1331.7 | 1313.2 | 1306.3 | 1315.5 | 1313.2 |
| 20° | 1273.8 | 1292.4 | 1359.5 | 1433.7 | 1456.8 | 1394.3 | 1354.9 | 1343.3 | 1336.4 | 1336.4 | 1331.7 |
| 22.5° | 1327.1 | 1341.0 | 1422.1 | 1503.1 | 1489.2 | 1398.9 | 1371.1 | 1348.0 | 1324.8 | 1322.5 | 1315.5 |
| 25° | 1389.6 | 1394.3 | 1480.0 | 1568.0 | 1493.9 | 1403.5 | 1354.9 | 1315.5 | 1292.4 | 1285.4 | 1287.7 |
| 27.5° | 1447.5 | 1459.1 | 1533.2 | 1612.0 | 1482.3 | 1378.1 | 1299.3 | 1248.4 | 1213.6 | 1211.3 | 1211.3 |
| 30° | 1521.7 | 1521.7 | 1588.8 | 1660.6 | 1456.8 | 1313.2 | 1209.0 | 1134.9 | 1107.1 | 1104.8 | 1100.1 |
| 32.5° | 1605.0 | 1591.1 | 1656.0 | 1695.4 | 1401.2 | 1225.2 | 1086.2 | 1002.9 | 958.9 | 949.6 | 942.6 |
| 35° | 1720.8 | 1690.7 | 1737.1 | 1702.3 | 1345.6 | 1100.1 | 931.1 | 836.1 | 803.7 | 789.8 | 789.8 |
| 37.5° | 1855.2 | 1811.2 | 1859.8 | 1681.5 | 1259.9 | 954.2 | 768.9 | 697.1 | 662.4 | 641.6 | 648.5 |
| 40° | 2012.7 | 1957.1 | 1984.9 | 1658.3 | 1167.3 | 792.1 | 634.6 | 590.6 | 548.9 | 521.1 | 521.1 |
| 42.5° | 2198.0 | 2105.3 | 2126.2 | 1635.2 | 1035.3 | 650.8 | 548.9 | 518.8 | 486.4 | 458.6 | 465.5 |
| 45° | 2376.3 | 2286.0 | 2265.1 | 1612.0 | 896.3 | 555.9 | 514.2 | 493.3 | 463.2 | 430.8 | 430.8 |
| 47.5° | 2582.4 | 2466.6 | 2387.9 | 1570.3 | 759.7 | 525.7 | 523.4 | 493.3 | 435.4 | 389.1 | 384.5 |
| 50° | 2777.0 | 2670.4 | 2499.0 | 1507.8 | 683.2 | 551.2 | 521.1 | 449.3 | 393.7 | 363.6 | 361.3 |
| 52.5° | 2983.1 | 2871.9 | 2589.4 | 1431.3 | 643.9 | 539.6 | 479.4 | 412.3 | 370.6 | 340.5 | 333.5 |
| 55° | 3186.9 | 3129.0 | 2670.4 | 1357.2 | 581.3 | 502.6 | 444.7 | 389.1 | 345.1 | 317.3 | 312.7 |
| 57.5° | 3418.5 | 3395.4 | 2739.9 | 1283.1 | 484.1 | 456.3 | 419.2 | 372.9 | 331.2 | 310.4 | 308.0 |
| 60° | 3620.0 | 3701.1 | 2823.3 | 1227.5 | 412.3 | 421.5 | 407.6 | 370.6 | 340.5 | 317.3 | 317.3 |
| 62.5° | 3833.1 | 3995.2 | 2897.4 | 1155.7 | 359.0 | 400.7 | 409.9 | 368.3 | 328.9 | 308.0 | 308.0 |
| 65° | 4018.4 | 4296.3 | 2973.8 | 1023.7 | 321.9 | 384.5 | 403.0 | 342.8 | 296.5 | 280.2 | 275.6 |
| 66° | 4097.1 | 4382.0 | 2997.0 | 942.6 | 308.0 | 372.9 | 391.4 | 328.9 | 282.6 | 268.7 | 266.3 |
| 67.5° | 4189.8 | 4516.4 | 3024.8 | 768.9 | 287.2 | 347.4 | 365.9 | 308.0 | 259.4 | 250.1 | 245.5 |
| 70° | 4319.5 | 4544.1 | 3008.6 | 502.6 | 250.1 | 298.8 | 326.6 | 275.6 | 231.6 | 224.7 | 217.7 |
| 72.5° | 4333.4 | 4354.2 | 2846.5 | 317.3 | 217.7 | 257.1 | 287.2 | 247.8 | 203.8 | 196.9 | 192.2 |
| 75° | 4104.1 | 3858.6 | 2408.7 | 227.0 | 192.2 | 227.0 | 252.5 | 215.4 | 169.1 | 159.8 | 155.2 |
| 77.5° | 3504.2 | 3061.9 | 1732.4 | 169.1 | 166.8 | 194.6 | 210.8 | 187.6 | 141.3 | 134.3 | 132.0 |
| 80° | 2459.7 | 2077.5 | 868.5 | 127.4 | 132.0 | 162.1 | 176.0 | 157.5 | 118.1 | 108.9 | 104.2 |
| 82.5° | 995.9 | 882.4 | 298.8 | 95.0 | 99.6 | 122.8 | 150.5 | 129.7 | 90.3 | 78.7 | 69.5 |
| 85° | 113.5 | 192.2 | 129.7 | 64.9 | 67.2 | 83.4 | 101.9 | 78.7 | 53.3 | 44.0 | 37.1 |
| 87.5° | 23.2 | 41.7 | 46.3 | 25.5 | 23.2 | 32.4 | 46.3 | 27.8 | 18.5 | 6.9 | 9.3 |
| 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)