

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: P595308

Luminaire Tested: **IST-PA1E-750-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595308
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: IST-PA1E-750-U-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10329 lumens
Efficiency: N/A
Efficacy: 126.7 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

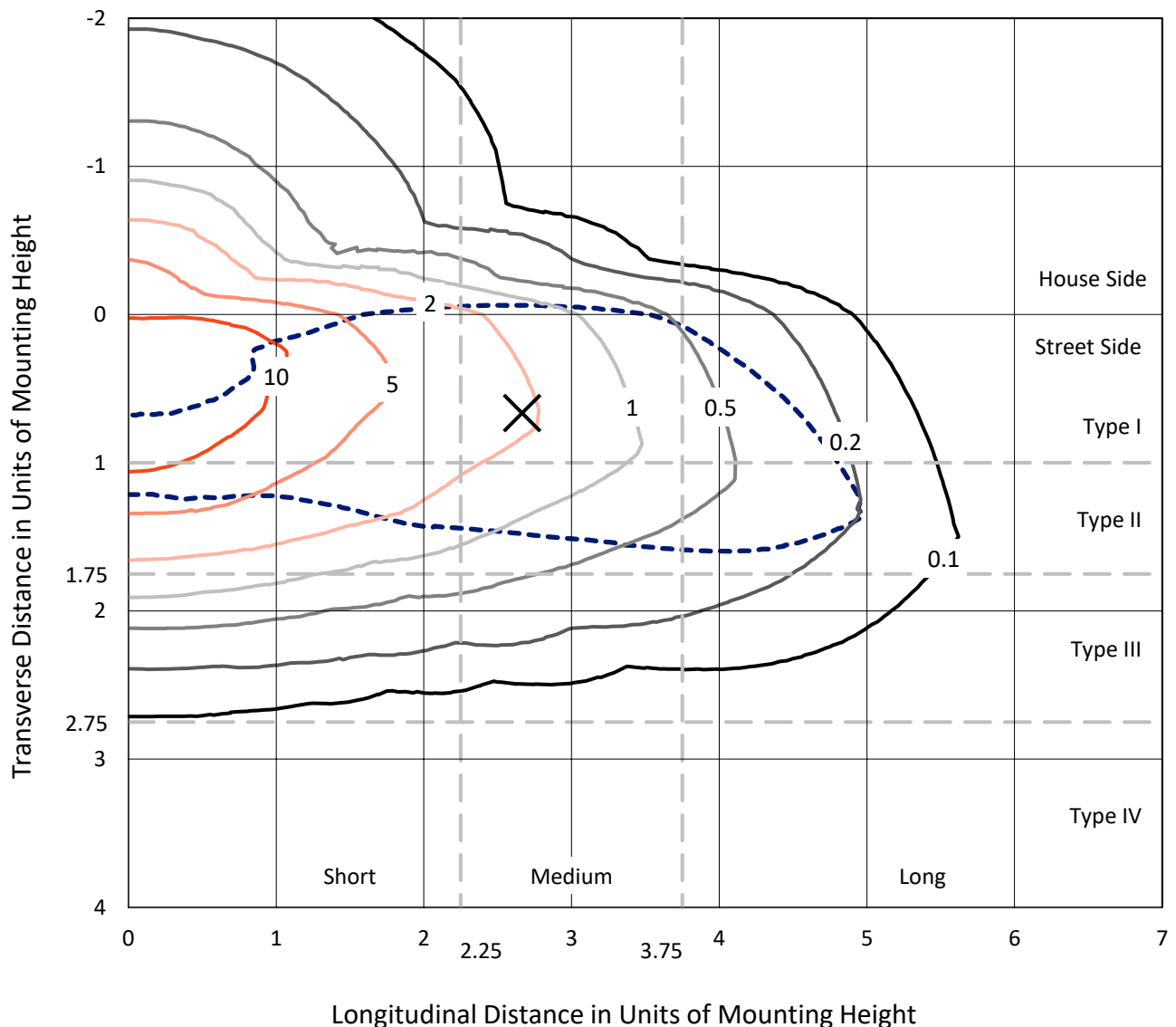
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

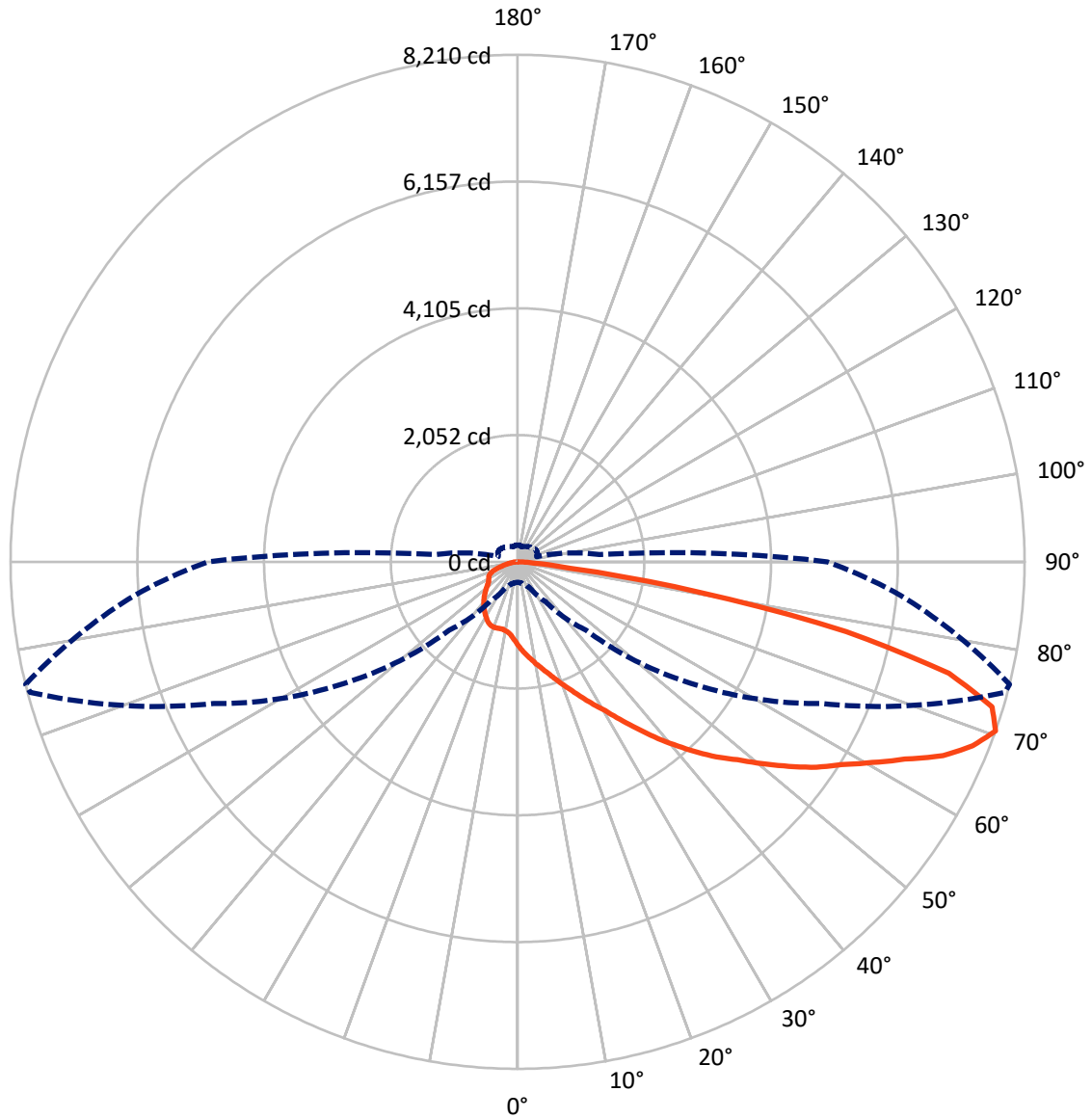
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 16.3 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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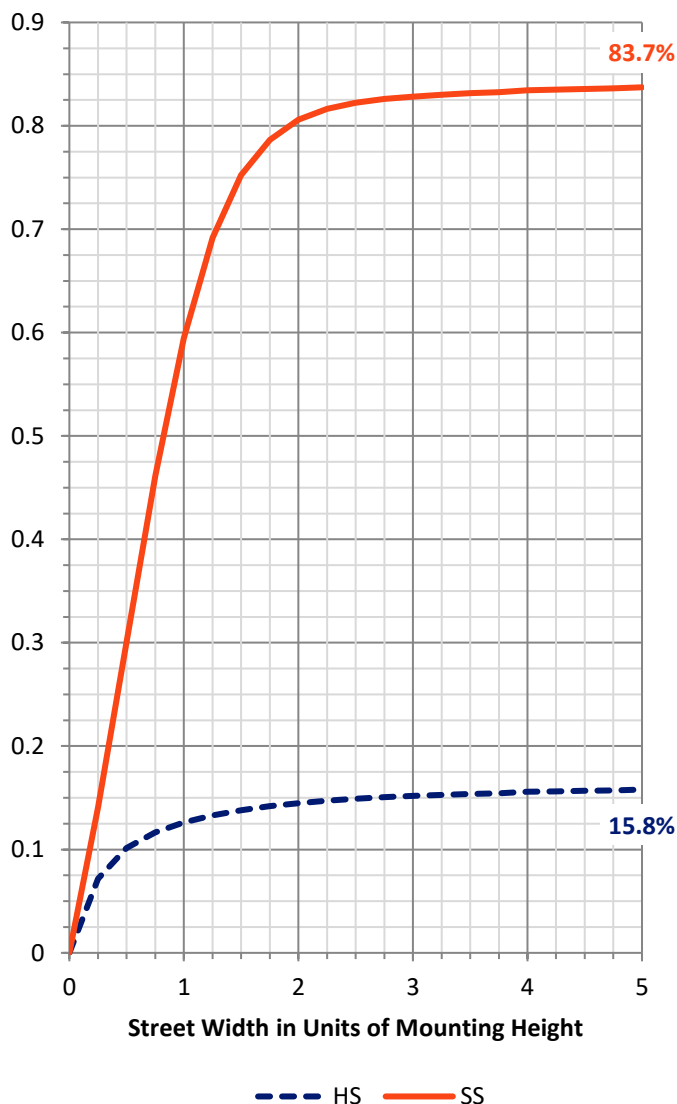
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1656.7 | 0.0 | 1656.7 |
| | % Fixture | 16.0 | 0.0 | 16.0 |
| Street Side | Lumens | 8672.3 | 0.0 | 8672.3 |
| | % Fixture | 84.0 | 0.0 | 84.0 |
| Total | Lumens | 10329.0 | 0.0 | 10329.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 132.1 | 1.3 |
| 10°-20° | 435.8 | 4.2 |
| 20°-30° | 803.1 | 7.8 |
| 30°-40° | 1345.6 | 13.0 |
| 40°-50° | 1912.0 | 18.5 |
| 50°-60° | 2207.5 | 21.4 |
| 60°-70° | 2029.3 | 19.6 |
| 70°-80° | 1279.6 | 12.4 |
| 80°-90° | 184.0 | 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° | 10329.0 | 100.0 |
| 0°-180° | 10329.0 | 100.0 |

Coefficient of Utilization

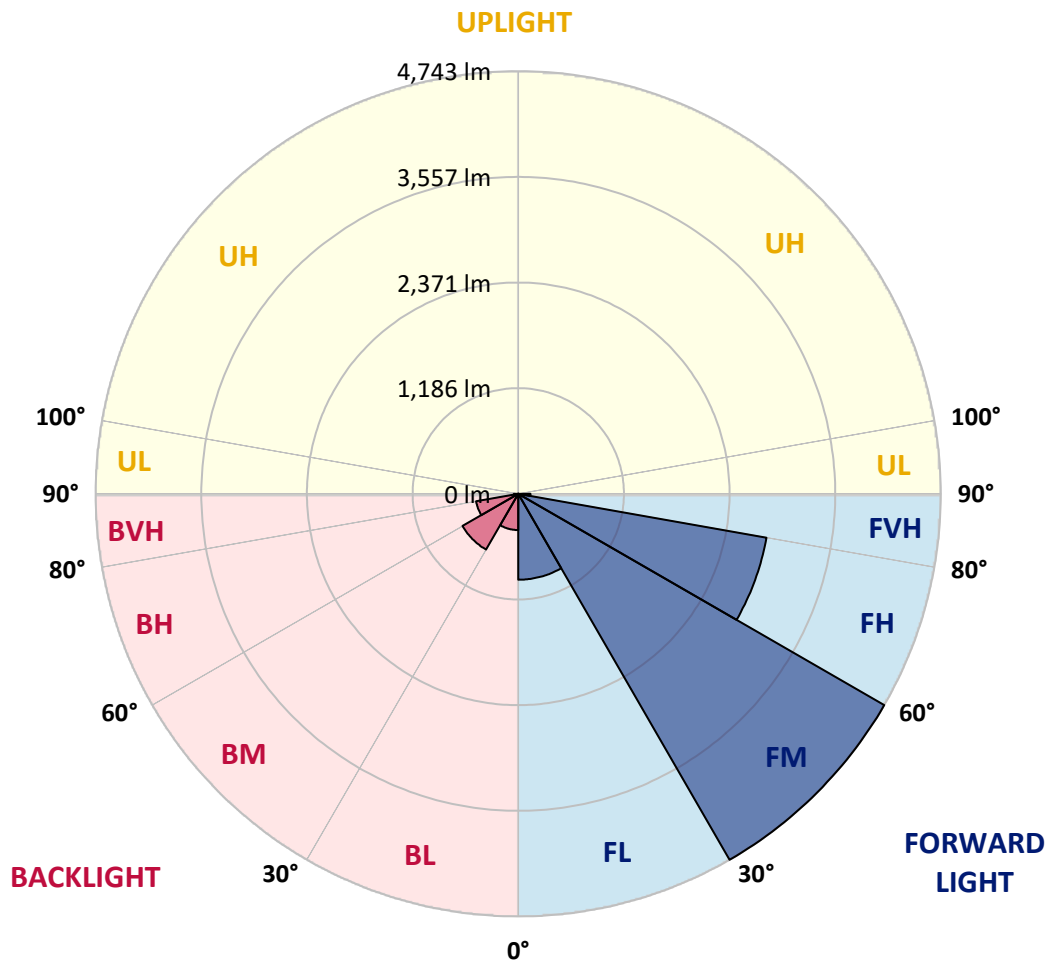


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 964.3 | 9.3 | | | |
| FM (30°-60°) | 4742.8 | 45.9 | | | |
| FH (60°-80°) | 2828.7 | 27.4 | | | G2/5000 |
| FVH (80°-90°) | 136.4 | 1.3 | | | G2/225 |
| BL (0°-30°) | 406.7 | 3.9 | B1/500 | | |
| BM (30°-60°) | 722.2 | 7.0 | B1/1000 | | |
| BH (60°-80°) | 480.2 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 47.6 | 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° | 1355.0 | 1355.0 | 1355.0 | 1355.0 | 1355.0 | 1355.0 | 1355.0 | 1355.0 | 1355.0 | 1355.0 | 1355.0 |
| 2.5° | 1631.0 | 1628.5 | 1621.0 | 1608.6 | 1598.7 | 1568.8 | 1529.0 | 1494.2 | 1442.0 | 1437.1 | 1384.8 |
| 5° | 1777.7 | 1767.7 | 1767.7 | 1755.3 | 1742.9 | 1710.5 | 1660.8 | 1598.7 | 1524.1 | 1519.1 | 1419.7 |
| 7.5° | 1847.3 | 1849.8 | 1844.8 | 1834.9 | 1837.3 | 1810.0 | 1765.2 | 1703.1 | 1601.2 | 1596.2 | 1466.9 |
| 10° | 1946.7 | 1944.3 | 1934.3 | 1926.9 | 1924.4 | 1899.5 | 1859.7 | 1802.5 | 1695.6 | 1685.7 | 1521.6 |
| 12.5° | 2043.7 | 2036.2 | 2038.7 | 2036.2 | 2031.3 | 2006.4 | 1969.1 | 1911.9 | 1780.2 | 1775.2 | 1588.7 |
| 15° | 2098.4 | 2095.9 | 2113.3 | 2118.3 | 2138.2 | 2115.8 | 2083.5 | 2018.8 | 1899.5 | 1879.6 | 1668.3 |
| 17.5° | 2133.2 | 2130.7 | 2148.1 | 2187.9 | 2225.2 | 2225.2 | 2215.3 | 2145.6 | 2013.9 | 1999.0 | 1757.8 |
| 20° | 2192.9 | 2202.8 | 2232.7 | 2265.0 | 2319.7 | 2329.6 | 2327.1 | 2297.3 | 2145.6 | 2130.7 | 1857.2 |
| 22.5° | 2312.2 | 2307.2 | 2332.1 | 2381.8 | 2431.6 | 2446.5 | 2449.0 | 2449.0 | 2297.3 | 2270.0 | 1959.2 |
| 25° | 2568.3 | 2555.9 | 2536.0 | 2531.0 | 2590.7 | 2588.2 | 2580.7 | 2598.1 | 2456.4 | 2436.5 | 2076.0 |
| 27.5° | 3055.6 | 3028.3 | 2951.2 | 2797.0 | 2762.2 | 2774.7 | 2737.4 | 2739.9 | 2637.9 | 2613.1 | 2175.5 |
| 30° | 3518.1 | 3505.6 | 3433.5 | 3247.1 | 3050.6 | 2981.0 | 2916.4 | 2889.0 | 2839.3 | 2797.0 | 2282.4 |
| 32.5° | 3935.7 | 3938.2 | 3851.2 | 3647.3 | 3446.0 | 3227.2 | 3115.3 | 3058.1 | 3078.0 | 3040.7 | 2429.1 |
| 35° | 4219.2 | 4196.8 | 4142.1 | 4005.4 | 3786.6 | 3577.7 | 3363.9 | 3237.1 | 3344.0 | 3301.8 | 2575.8 |
| 37.5° | 4385.8 | 4368.4 | 4323.6 | 4226.6 | 4117.2 | 3915.9 | 3644.9 | 3450.9 | 3659.8 | 3597.6 | 2762.2 |
| 40° | 4470.3 | 4445.4 | 4400.7 | 4360.9 | 4308.7 | 4199.3 | 3960.6 | 3694.6 | 3948.2 | 3893.5 | 2946.2 |
| 42.5° | 4480.2 | 4462.8 | 4438.0 | 4418.1 | 4435.5 | 4420.6 | 4268.9 | 3978.0 | 4251.5 | 4191.8 | 3157.5 |
| 45° | 4472.8 | 4485.2 | 4455.4 | 4420.6 | 4455.4 | 4582.2 | 4582.2 | 4261.4 | 4552.3 | 4507.6 | 3358.9 |
| 47.5° | 4477.8 | 4465.3 | 4455.4 | 4445.4 | 4450.4 | 4624.4 | 4798.5 | 4527.5 | 4840.7 | 4788.5 | 3595.1 |
| 50° | 4271.4 | 4288.8 | 4373.3 | 4410.6 | 4433.0 | 4634.4 | 4972.5 | 4815.9 | 5198.8 | 5134.1 | 3858.7 |
| 52.5° | 3615.0 | 3625.0 | 4010.3 | 4288.8 | 4378.3 | 4594.6 | 5094.3 | 5136.6 | 5551.8 | 5502.1 | 4142.1 |
| 55° | 2784.6 | 2836.8 | 3202.3 | 3883.5 | 4254.0 | 4527.5 | 5131.6 | 5345.5 | 5912.3 | 5872.5 | 4428.0 |
| 57.5° | 2292.3 | 2299.8 | 2511.1 | 3120.3 | 3861.2 | 4465.3 | 5168.9 | 5536.9 | 6235.5 | 6190.8 | 4726.4 |
| 60° | 1902.0 | 1884.6 | 2013.9 | 2406.7 | 3207.3 | 4216.7 | 5176.4 | 5688.6 | 6611.0 | 6596.0 | 5034.7 |
| 62.5° | 1397.3 | 1417.2 | 1541.5 | 1874.6 | 2508.6 | 3712.0 | 5139.1 | 5817.8 | 7058.5 | 7038.6 | 5377.8 |
| 65° | 857.8 | 882.6 | 1034.3 | 1340.1 | 1899.5 | 2946.2 | 4895.4 | 5885.0 | 7528.4 | 7573.1 | 5748.2 |
| 67.5° | 455.0 | 472.4 | 561.9 | 810.5 | 1302.8 | 2245.1 | 4308.7 | 5800.4 | 7926.2 | 7946.1 | 6103.8 |
| 70° | 333.2 | 335.6 | 365.5 | 457.5 | 785.7 | 1561.4 | 3431.0 | 5432.5 | 8169.8 | 8209.6 | 6220.6 |
| 72.5° | 290.9 | 293.4 | 305.8 | 328.2 | 427.6 | 952.2 | 2458.9 | 4791.0 | 8067.9 | 8033.1 | 6024.2 |
| 75° | 263.5 | 263.5 | 273.5 | 280.9 | 313.3 | 527.1 | 1506.7 | 3920.8 | 7289.7 | 7212.6 | 5136.6 |
| 77.5° | 226.2 | 226.2 | 236.2 | 246.1 | 271.0 | 340.6 | 788.1 | 2906.4 | 5574.2 | 5442.4 | 3513.1 |
| 80° | 181.5 | 181.5 | 193.9 | 206.4 | 238.7 | 256.1 | 385.4 | 1944.3 | 3187.4 | 2993.5 | 1598.7 |
| 82.5° | 124.3 | 134.3 | 156.6 | 171.6 | 198.9 | 181.5 | 226.2 | 840.4 | 1004.4 | 870.2 | 360.5 |
| 85° | 74.6 | 79.6 | 111.9 | 129.3 | 149.2 | 97.0 | 139.2 | 323.2 | 300.8 | 263.5 | 82.0 |
| 87.5° | 7.5 | 12.4 | 44.8 | 52.2 | 52.2 | 27.3 | 59.7 | 77.1 | 87.0 | 89.5 | 19.9 |
| 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° | 1355.0 | 1355.0 | 1355.0 | 1355.0 | 1355.0 | 1355.0 | 1355.0 | 1355.0 | 1355.0 | 1355.0 | 1355.0 |
| 2.5° | 1355.0 | 1325.2 | 1268.0 | 1215.8 | 1163.6 | 1128.8 | 1094.0 | 1081.5 | 1064.1 | 1051.7 | 1061.6 |
| 5° | 1367.4 | 1305.3 | 1195.9 | 1103.9 | 1041.7 | 994.5 | 972.1 | 959.7 | 949.8 | 947.3 | 944.8 |
| 7.5° | 1382.4 | 1290.4 | 1143.7 | 1041.7 | 982.1 | 959.7 | 954.7 | 954.7 | 954.7 | 957.2 | 959.7 |
| 10° | 1414.7 | 1295.3 | 1116.3 | 1006.9 | 974.6 | 969.6 | 972.1 | 982.1 | 982.1 | 984.6 | 984.6 |
| 12.5° | 1452.0 | 1307.8 | 1096.4 | 1002.0 | 982.1 | 984.6 | 987.0 | 992.0 | 992.0 | 999.5 | 997.0 |
| 15° | 1506.7 | 1332.6 | 1094.0 | 1006.9 | 989.5 | 984.6 | 984.6 | 982.1 | 982.1 | 982.1 | 987.0 |
| 17.5° | 1576.3 | 1367.4 | 1096.4 | 1006.9 | 982.1 | 972.1 | 964.7 | 957.2 | 947.3 | 952.2 | 947.3 |
| 20° | 1645.9 | 1409.7 | 1096.4 | 994.5 | 962.2 | 937.3 | 914.9 | 902.5 | 890.1 | 887.6 | 890.1 |
| 22.5° | 1732.9 | 1459.4 | 1084.0 | 967.2 | 919.9 | 885.1 | 852.8 | 835.4 | 815.5 | 808.0 | 803.1 |
| 25° | 1807.5 | 1499.2 | 1059.1 | 927.4 | 872.7 | 823.0 | 780.7 | 750.8 | 726.0 | 721.0 | 721.0 |
| 27.5° | 1884.6 | 1534.0 | 1021.9 | 877.6 | 805.5 | 750.8 | 703.6 | 666.3 | 641.5 | 639.0 | 636.5 |
| 30° | 1956.7 | 1563.9 | 972.1 | 823.0 | 745.9 | 681.2 | 626.5 | 594.2 | 571.8 | 559.4 | 551.9 |
| 32.5° | 2051.2 | 1603.6 | 924.9 | 768.3 | 676.3 | 611.6 | 561.9 | 534.5 | 504.7 | 484.8 | 477.4 |
| 35° | 2170.5 | 1650.9 | 872.7 | 708.6 | 614.1 | 549.5 | 519.6 | 479.8 | 442.6 | 420.2 | 412.7 |
| 37.5° | 2304.8 | 1718.0 | 818.0 | 646.4 | 551.9 | 504.7 | 487.3 | 425.2 | 385.4 | 377.9 | 375.4 |
| 40° | 2471.3 | 1782.6 | 755.8 | 581.8 | 492.3 | 479.8 | 450.0 | 385.4 | 365.5 | 363.0 | 360.5 |
| 42.5° | 2637.9 | 1852.3 | 696.2 | 517.1 | 445.0 | 450.0 | 407.7 | 375.4 | 358.0 | 353.0 | 350.6 |
| 45° | 2831.8 | 1921.9 | 636.5 | 460.0 | 407.7 | 407.7 | 385.4 | 365.5 | 350.6 | 345.6 | 345.6 |
| 47.5° | 3035.7 | 1991.5 | 571.8 | 410.2 | 380.4 | 365.5 | 368.0 | 353.0 | 343.1 | 338.1 | 335.6 |
| 50° | 3291.8 | 2058.6 | 512.2 | 375.4 | 363.0 | 343.1 | 350.6 | 340.6 | 335.6 | 330.7 | 328.2 |
| 52.5° | 3533.0 | 2088.5 | 457.5 | 355.5 | 353.0 | 333.2 | 335.6 | 330.7 | 328.2 | 320.7 | 318.2 |
| 55° | 3769.2 | 2081.0 | 415.2 | 345.6 | 340.6 | 330.7 | 325.7 | 323.2 | 320.7 | 313.3 | 310.8 |
| 57.5° | 4032.7 | 2071.1 | 387.9 | 343.1 | 333.2 | 323.2 | 323.2 | 315.8 | 305.8 | 305.8 | 305.8 |
| 60° | 4306.2 | 2038.7 | 375.4 | 343.1 | 330.7 | 323.2 | 318.2 | 310.8 | 300.8 | 303.3 | 300.8 |
| 62.5° | 4614.5 | 1976.6 | 368.0 | 350.6 | 333.2 | 320.7 | 315.8 | 305.8 | 293.4 | 295.9 | 293.4 |
| 65° | 4885.5 | 1849.8 | 363.0 | 358.0 | 338.1 | 323.2 | 310.8 | 298.4 | 283.4 | 285.9 | 283.4 |
| 67.5° | 5069.5 | 1636.0 | 348.1 | 363.0 | 345.6 | 320.7 | 305.8 | 288.4 | 268.5 | 278.5 | 276.0 |
| 70° | 5017.3 | 1330.1 | 320.7 | 353.0 | 353.0 | 323.2 | 298.4 | 276.0 | 253.6 | 273.5 | 266.0 |
| 72.5° | 4612.0 | 999.5 | 268.5 | 318.2 | 348.1 | 323.2 | 283.4 | 256.1 | 236.2 | 248.6 | 233.7 |
| 75° | 3786.6 | 678.7 | 213.8 | 253.6 | 325.7 | 325.7 | 271.0 | 236.2 | 211.3 | 203.9 | 198.9 |
| 77.5° | 2361.9 | 422.7 | 166.6 | 186.5 | 273.5 | 323.2 | 258.6 | 211.3 | 176.5 | 171.6 | 166.6 |
| 80° | 934.8 | 226.2 | 131.8 | 134.3 | 201.4 | 295.9 | 241.2 | 179.0 | 141.7 | 136.7 | 126.8 |
| 82.5° | 213.8 | 114.4 | 92.0 | 89.5 | 124.3 | 241.2 | 218.8 | 141.7 | 109.4 | 109.4 | 92.0 |
| 85° | 64.6 | 59.7 | 59.7 | 57.2 | 62.2 | 124.3 | 169.1 | 97.0 | 74.6 | 52.2 | 44.8 |
| 87.5° | 17.4 | 24.9 | 22.4 | 19.9 | 19.9 | 17.4 | 54.7 | 24.9 | 14.9 | 7.5 | 5.0 |
| 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)