

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: P594256

Luminaire Tested: **ISC-PA1D-827-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISC-PA1D-827-U-T2U-HSS
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4607 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

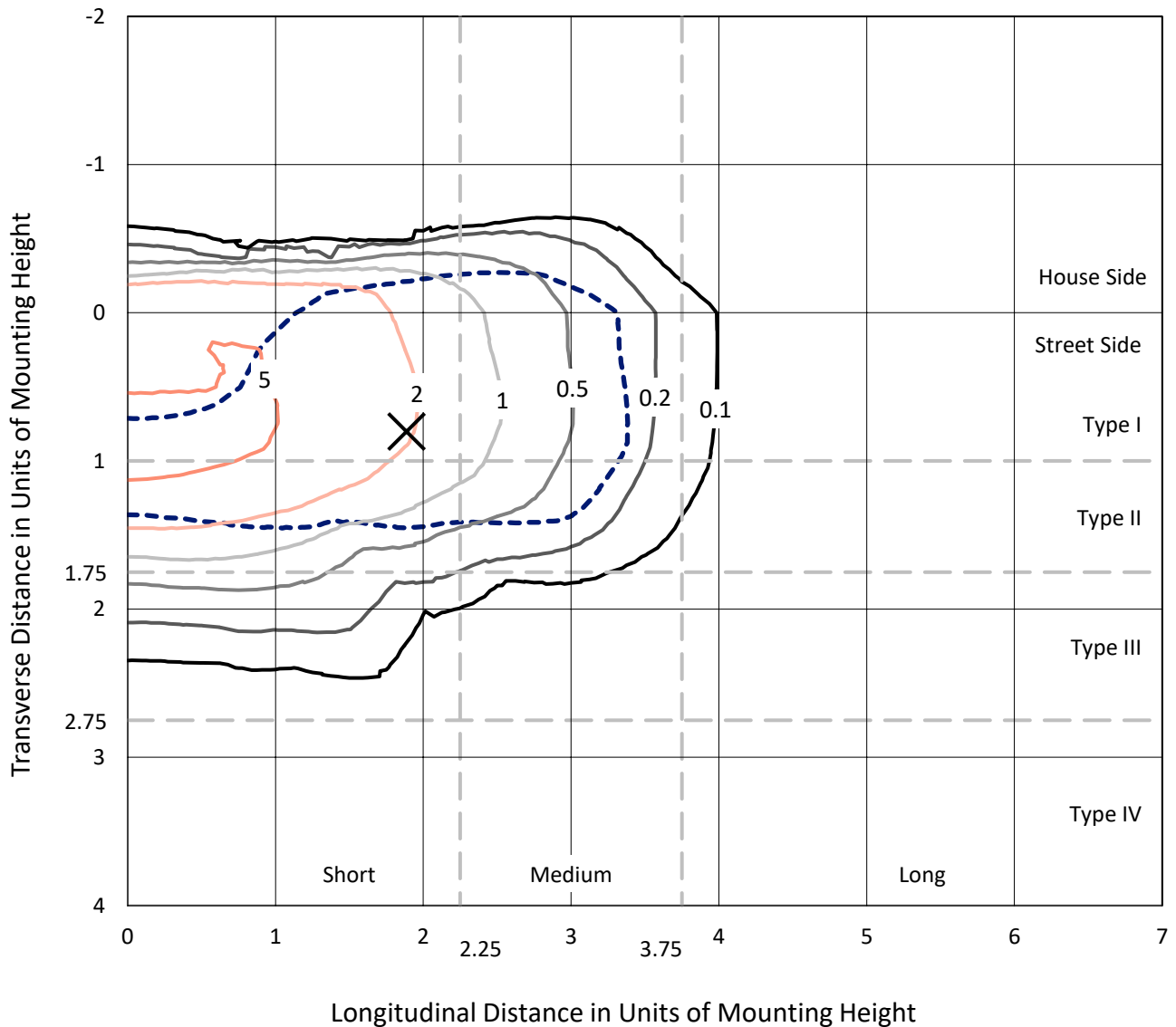
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

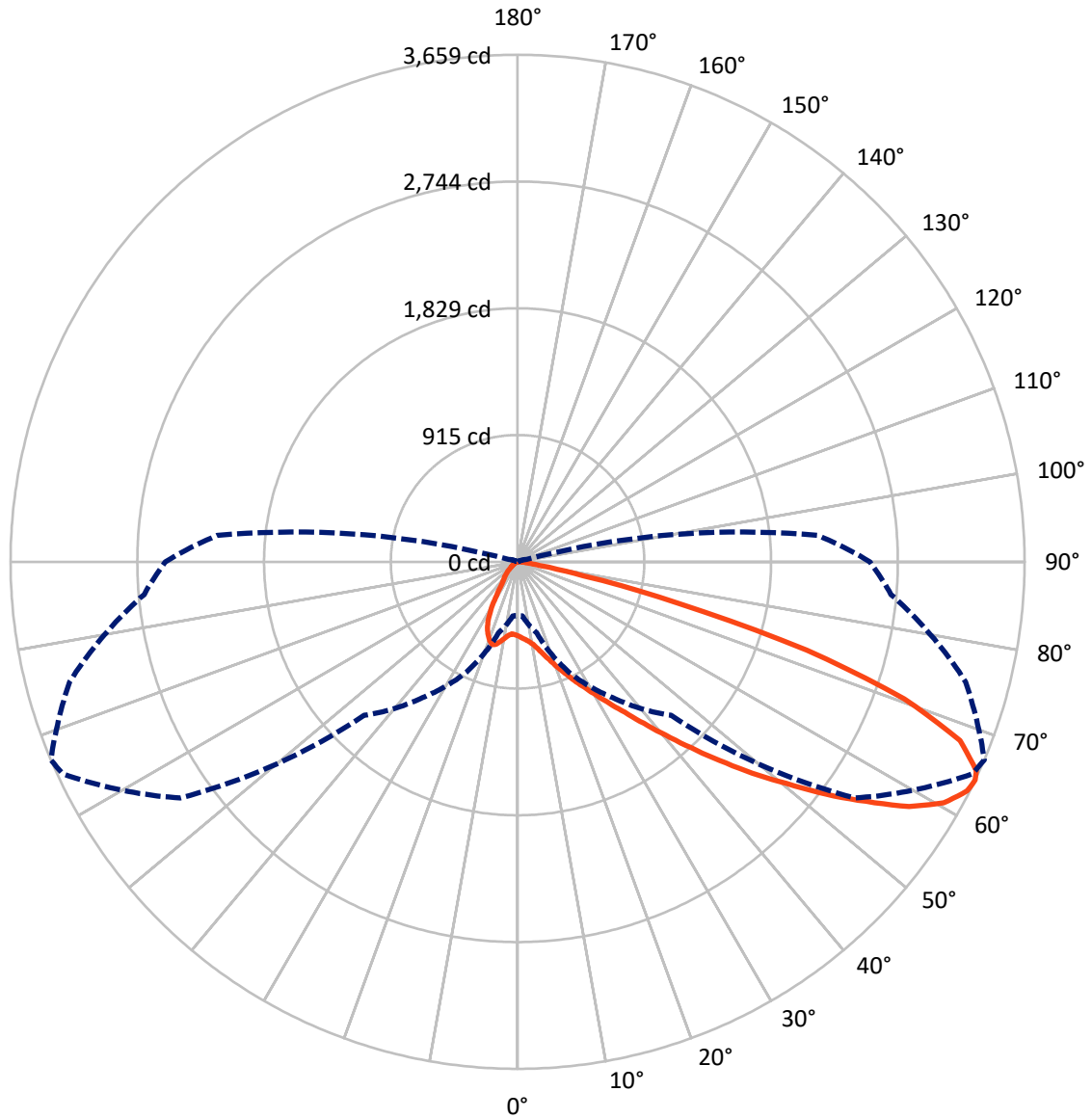
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 589.3 | 0.0 | 589.3 |
| | % Fixture | 12.8 | 0.0 | 12.8 |
| Street Side | Lumens | 4017.7 | 0.0 | 4017.7 |
| | % Fixture | 87.2 | 0.0 | 87.2 |
| Total | Lumens | 4607.0 | 0.0 | 4607.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 50.8 | 1.1 |
| 10°-20° | 149.9 | 3.3 |
| 20°-30° | 271.9 | 5.9 |
| 30°-40° | 520.9 | 11.3 |
| 40°-50° | 960.1 | 20.8 |
| 50°-60° | 1240.1 | 26.9 |
| 60°-70° | 1015.8 | 22.0 |
| 70°-80° | 373.4 | 8.1 |
| 80°-90° | 24.1 | 0.5 |
| 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° | 4607.0 | 100.0 |
| 0°-180° | 4607.0 | 100.0 |

Coefficient of Utilization

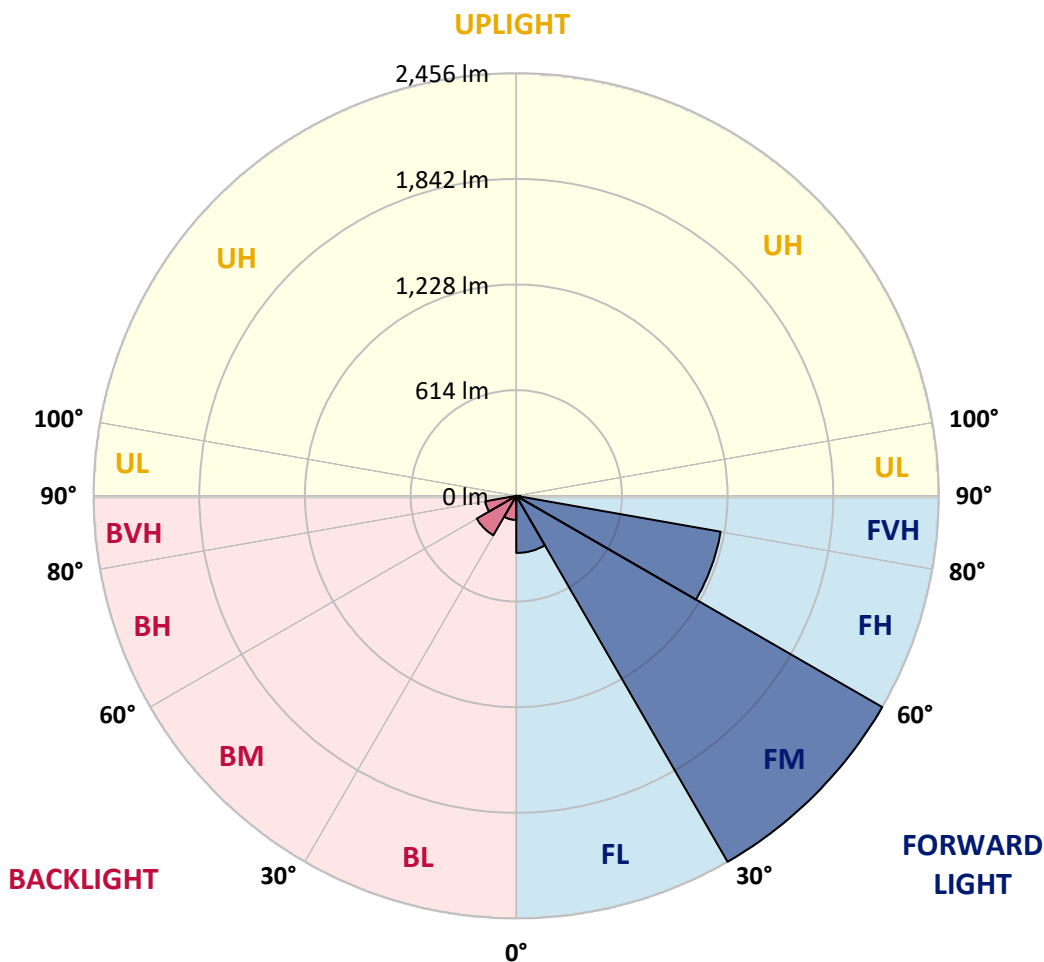


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 332.2 | 7.2 | | | |
| FM (30°-60°) | 2456.2 | 53.3 | | | |
| FH (60°-80°) | 1206.3 | 26.2 | | | G1/1800 |
| FVH (80°-90°) | 23.0 | 0.5 | | | G1/100 |
| BL (0°-30°) | 140.5 | 3.0 | B1/500 | | |
| BM (30°-60°) | 265.0 | 5.8 | B1/1000 | | |
| BH (60°-80°) | 182.8 | 4.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 535.3 | 535.3 | 535.3 | 535.3 | 535.3 | 535.3 | 535.3 | 535.3 | 535.3 | 535.3 | 535.3 |
| 2.5° | 554.3 | 554.3 | 557.5 | 555.9 | 555.9 | 552.7 | 548.0 | 549.6 | 548.0 | 546.4 | 541.6 |
| 5° | 544.8 | 546.4 | 548.0 | 551.1 | 557.5 | 560.7 | 560.7 | 562.2 | 562.2 | 560.7 | 554.3 |
| 7.5° | 540.1 | 543.2 | 546.4 | 549.6 | 557.5 | 562.2 | 570.2 | 579.7 | 579.7 | 581.2 | 574.9 |
| 10° | 557.5 | 560.7 | 565.4 | 570.2 | 578.1 | 586.0 | 592.3 | 603.4 | 603.4 | 606.6 | 605.0 |
| 12.5° | 593.9 | 593.9 | 595.5 | 598.7 | 609.7 | 619.2 | 630.3 | 639.8 | 641.4 | 643.0 | 638.3 |
| 15° | 638.3 | 638.3 | 639.8 | 639.8 | 646.2 | 660.4 | 681.0 | 690.5 | 688.9 | 687.4 | 677.8 |
| 17.5° | 688.9 | 688.9 | 688.9 | 690.5 | 693.7 | 701.6 | 725.4 | 744.4 | 742.8 | 741.2 | 722.2 |
| 20° | 736.4 | 739.6 | 742.8 | 744.4 | 747.5 | 753.9 | 779.2 | 801.4 | 806.1 | 799.8 | 766.5 |
| 22.5° | 790.3 | 791.9 | 793.5 | 798.2 | 806.1 | 809.3 | 834.6 | 867.9 | 872.7 | 864.7 | 820.4 |
| 25° | 844.1 | 847.3 | 852.1 | 858.4 | 866.3 | 882.2 | 899.6 | 943.9 | 948.7 | 939.2 | 879.0 |
| 27.5° | 962.9 | 961.3 | 947.1 | 936.0 | 937.6 | 948.7 | 972.4 | 1019.9 | 1024.7 | 1015.2 | 937.6 |
| 30° | 1165.6 | 1146.6 | 1119.7 | 1070.6 | 1023.1 | 1027.9 | 1061.1 | 1107.0 | 1115.0 | 1102.3 | 1002.5 |
| 32.5° | 1453.9 | 1434.9 | 1368.4 | 1260.7 | 1156.1 | 1121.3 | 1164.1 | 1208.4 | 1217.9 | 1203.7 | 1078.5 |
| 35° | 1734.2 | 1729.5 | 1666.1 | 1536.2 | 1358.9 | 1262.3 | 1273.3 | 1330.4 | 1333.5 | 1316.1 | 1173.6 |
| 37.5° | 2081.1 | 2063.6 | 1976.5 | 1830.8 | 1621.8 | 1449.1 | 1417.5 | 1471.3 | 1479.2 | 1458.6 | 1289.2 |
| 40° | 2310.7 | 2304.4 | 2252.1 | 2149.2 | 1924.3 | 1707.3 | 1593.3 | 1645.5 | 1643.9 | 1613.9 | 1422.2 |
| 42.5° | 2443.7 | 2446.9 | 2443.7 | 2394.6 | 2266.4 | 2017.7 | 1826.1 | 1829.2 | 1834.0 | 1802.3 | 1575.8 |
| 45° | 2534.0 | 2534.0 | 2538.8 | 2578.4 | 2529.3 | 2388.3 | 2109.6 | 2038.3 | 2044.6 | 1995.5 | 1735.8 |
| 47.5° | 2532.4 | 2541.9 | 2567.3 | 2659.1 | 2725.6 | 2733.6 | 2464.3 | 2282.2 | 2279.0 | 2204.6 | 1900.5 |
| 50° | 2361.4 | 2355.0 | 2459.6 | 2665.5 | 2865.0 | 3018.6 | 2800.1 | 2540.3 | 2513.4 | 2421.6 | 2071.6 |
| 52.5° | 1976.5 | 1997.1 | 2171.3 | 2473.8 | 2898.3 | 3211.9 | 3089.9 | 2822.3 | 2787.4 | 2637.0 | 2222.0 |
| 55° | 1640.8 | 1662.9 | 1832.4 | 2128.6 | 2717.7 | 3280.0 | 3284.7 | 3121.6 | 3051.9 | 2823.8 | 2377.2 |
| 57.5° | 1232.2 | 1274.9 | 1525.2 | 1803.9 | 2321.8 | 3110.5 | 3354.4 | 3408.2 | 3332.2 | 3004.4 | 2503.9 |
| 60° | 787.1 | 812.5 | 1092.8 | 1436.5 | 1881.5 | 2667.1 | 3340.1 | 3574.5 | 3533.4 | 3169.1 | 2610.0 |
| 62.5° | 514.7 | 529.0 | 722.2 | 1081.7 | 1433.3 | 2009.8 | 3170.7 | 3641.1 | 3641.1 | 3280.0 | 2689.2 |
| 64° | 388.0 | 391.2 | 529.0 | 879.0 | 1195.7 | 1566.3 | 2971.1 | 3620.5 | 3658.5 | 3346.5 | 2705.1 |
| 65° | 307.2 | 308.8 | 413.4 | 730.1 | 1073.8 | 1284.4 | 2796.9 | 3576.1 | 3637.9 | 3371.8 | 2714.6 |
| 67.5° | 215.4 | 220.1 | 267.7 | 421.3 | 769.7 | 741.2 | 2073.1 | 3367.1 | 3443.1 | 3379.7 | 2701.9 |
| 70° | 186.9 | 193.2 | 224.9 | 275.6 | 549.6 | 430.8 | 1102.3 | 2869.8 | 2960.0 | 3148.5 | 2515.0 |
| 72.5° | 142.5 | 150.5 | 188.5 | 232.8 | 386.4 | 291.4 | 426.0 | 2038.3 | 2180.8 | 2434.2 | 2076.3 |
| 75° | 102.9 | 106.1 | 139.4 | 190.1 | 270.8 | 224.9 | 183.7 | 1051.6 | 1195.7 | 1436.5 | 1290.8 |
| 77.5° | 64.9 | 69.7 | 95.0 | 142.5 | 242.3 | 171.0 | 109.3 | 383.3 | 483.0 | 625.6 | 563.8 |
| 80° | 38.0 | 39.6 | 57.0 | 98.2 | 163.1 | 126.7 | 69.7 | 136.2 | 164.7 | 232.8 | 150.5 |
| 82.5° | 22.2 | 23.8 | 36.4 | 66.5 | 106.1 | 98.2 | 44.3 | 69.7 | 77.6 | 88.7 | 31.7 |
| 85° | 7.9 | 7.9 | 25.3 | 39.6 | 57.0 | 49.1 | 25.3 | 36.4 | 39.6 | 49.1 | 9.5 |
| 87.5° | 1.6 | 1.6 | 12.7 | 20.6 | 20.6 | 7.9 | 12.7 | 15.8 | 19.0 | 26.9 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 535.3 | 535.3 | 535.3 | 535.3 | 535.3 | 535.3 | 535.3 | 535.3 | 535.3 | 535.3 | 535.3 |
| 2.5° | 540.1 | 535.3 | 530.6 | 524.2 | 519.5 | 510.0 | 505.2 | 498.9 | 497.3 | 494.1 | 492.5 |
| 5° | 552.7 | 544.8 | 533.7 | 517.9 | 508.4 | 494.1 | 484.6 | 475.1 | 473.5 | 470.4 | 468.8 |
| 7.5° | 570.2 | 562.2 | 548.0 | 530.6 | 514.7 | 500.5 | 489.4 | 475.1 | 460.9 | 449.8 | 449.8 |
| 10° | 598.7 | 589.2 | 570.2 | 554.3 | 535.3 | 505.2 | 453.0 | 405.4 | 375.4 | 356.3 | 350.0 |
| 12.5° | 633.5 | 620.8 | 600.2 | 581.2 | 544.8 | 449.8 | 369.0 | 307.2 | 256.6 | 232.8 | 228.1 |
| 15° | 669.9 | 658.8 | 638.3 | 609.7 | 500.5 | 375.4 | 269.2 | 174.2 | 125.1 | 102.9 | 106.1 |
| 17.5° | 709.5 | 693.7 | 669.9 | 612.9 | 440.3 | 280.3 | 144.1 | 88.7 | 76.0 | 72.9 | 72.9 |
| 20° | 750.7 | 730.1 | 706.4 | 578.1 | 362.7 | 161.5 | 82.4 | 66.5 | 61.8 | 57.0 | 58.6 |
| 22.5° | 795.0 | 769.7 | 733.3 | 525.8 | 259.7 | 87.1 | 63.4 | 53.8 | 47.5 | 45.9 | 45.9 |
| 25° | 842.6 | 806.1 | 760.2 | 465.6 | 150.5 | 66.5 | 52.3 | 42.8 | 38.0 | 36.4 | 34.8 |
| 27.5° | 893.2 | 847.3 | 766.5 | 386.4 | 85.5 | 55.4 | 41.2 | 33.3 | 28.5 | 26.9 | 26.9 |
| 30° | 939.2 | 888.5 | 752.3 | 286.7 | 64.9 | 45.9 | 33.3 | 25.3 | 22.2 | 22.2 | 22.2 |
| 32.5° | 1000.9 | 934.4 | 707.9 | 179.0 | 52.3 | 36.4 | 25.3 | 20.6 | 17.4 | 17.4 | 17.4 |
| 35° | 1081.7 | 1002.5 | 663.6 | 95.0 | 42.8 | 30.1 | 20.6 | 15.8 | 14.3 | 14.3 | 14.3 |
| 37.5° | 1192.6 | 1092.8 | 624.0 | 60.2 | 34.8 | 23.8 | 15.8 | 12.7 | 11.1 | 11.1 | 11.1 |
| 40° | 1306.6 | 1200.5 | 568.6 | 45.9 | 28.5 | 19.0 | 12.7 | 9.5 | 7.9 | 7.9 | 9.5 |
| 42.5° | 1449.1 | 1325.6 | 505.2 | 39.6 | 23.8 | 15.8 | 9.5 | 6.3 | 4.8 | 6.3 | 6.3 |
| 45° | 1593.3 | 1457.1 | 416.5 | 33.3 | 20.6 | 12.7 | 6.3 | 3.2 | 3.2 | 4.8 | 4.8 |
| 47.5° | 1742.1 | 1596.4 | 323.1 | 28.5 | 17.4 | 9.5 | 4.8 | 1.6 | 1.6 | 3.2 | 3.2 |
| 50° | 1895.8 | 1734.2 | 240.7 | 25.3 | 14.3 | 7.9 | 3.2 | 1.6 | 0.0 | 1.6 | 1.6 |
| 52.5° | 2049.4 | 1867.3 | 186.9 | 22.2 | 12.7 | 6.3 | 1.6 | 0.0 | 0.0 | 0.0 | 1.6 |
| 55° | 2191.9 | 1987.6 | 148.9 | 19.0 | 11.1 | 4.8 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 2312.3 | 2076.3 | 118.8 | 17.4 | 9.5 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 2426.3 | 2146.0 | 91.9 | 14.3 | 7.9 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 2507.1 | 2172.9 | 74.4 | 12.7 | 6.3 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 64° | 2541.9 | 2176.1 | 64.9 | 11.1 | 6.3 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 2562.5 | 2166.6 | 60.2 | 11.1 | 6.3 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 2567.3 | 2114.3 | 45.9 | 9.5 | 4.8 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 2427.9 | 1932.2 | 33.3 | 6.3 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2028.8 | 1476.1 | 22.2 | 4.8 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1267.0 | 638.3 | 12.7 | 4.8 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 524.2 | 193.2 | 7.9 | 3.2 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 120.4 | 45.9 | 3.2 | 1.6 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 28.5 | 7.9 | 1.6 | 1.6 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 6.3 | 1.6 | 1.6 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.2 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)