

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: P594283

Luminaire Tested: **ISC-PA1E-727-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594283
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-PA1E-727-U-T2U-HSS
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 6434 lumens
Efficiency: N/A
Efficacy: 78.1 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

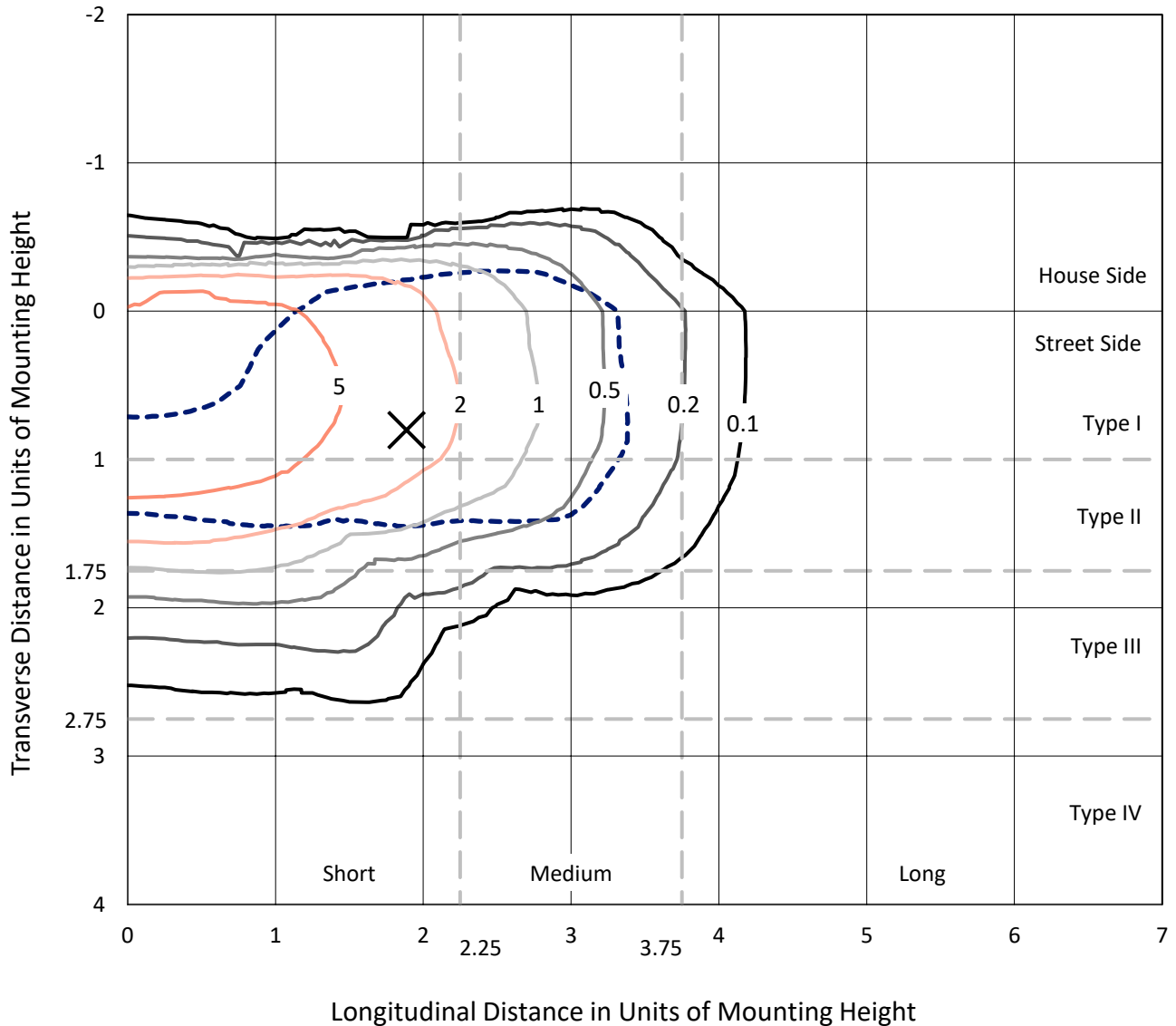
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

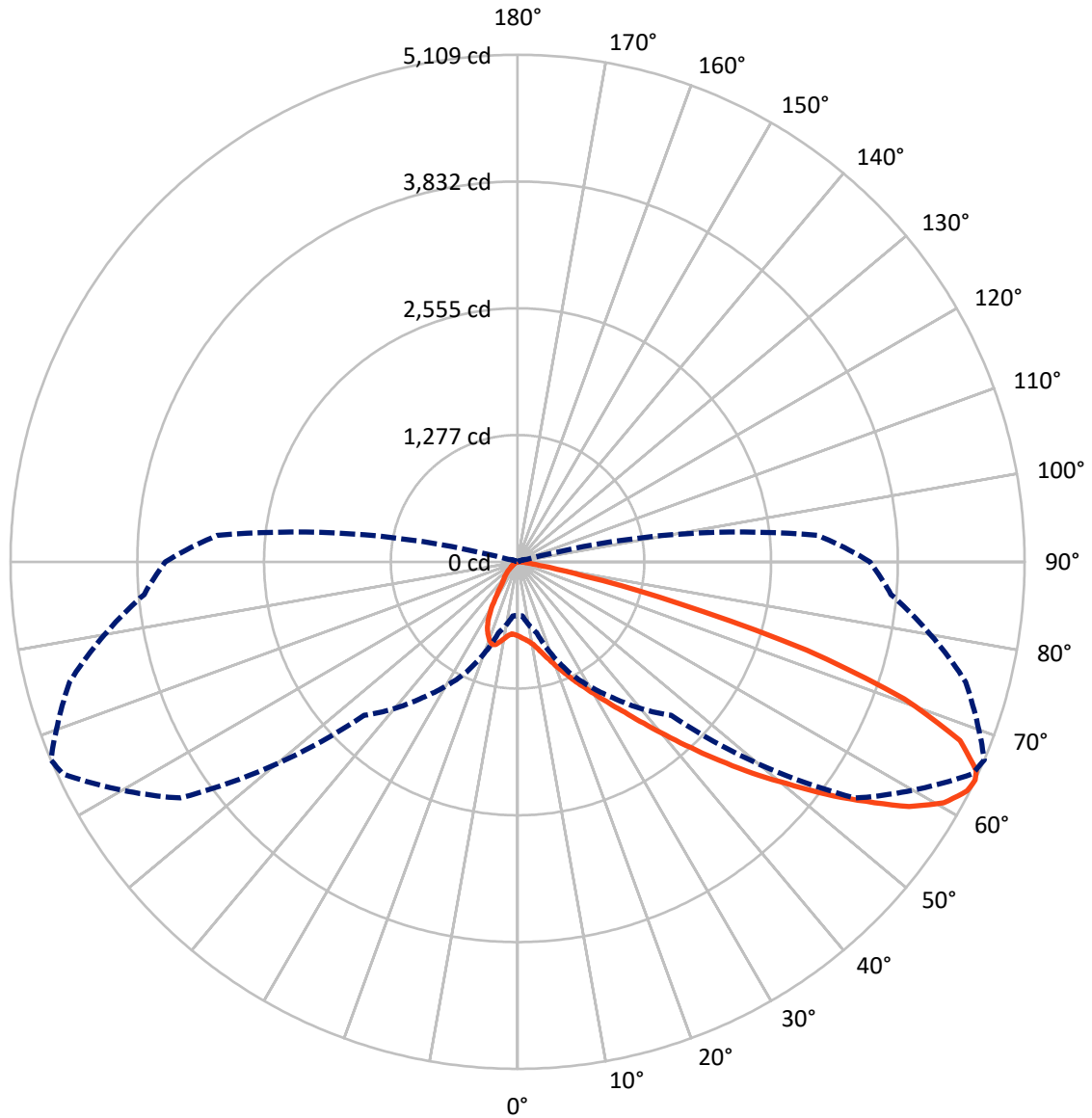
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.9 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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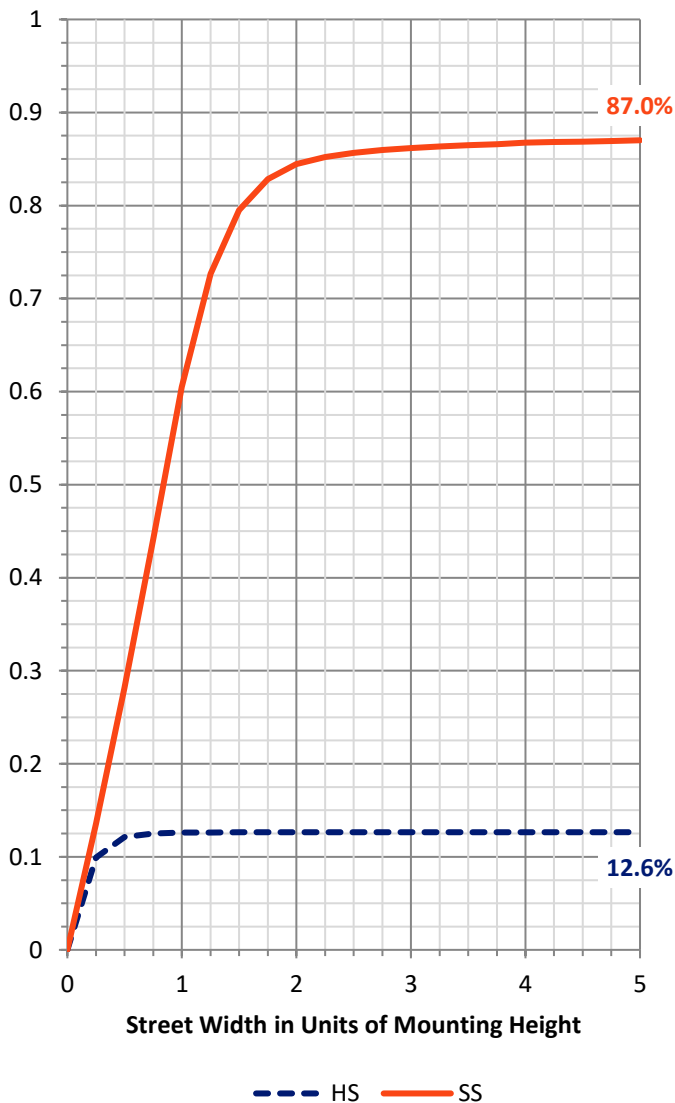
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 823.0 | 0.0 | 823.0 |
| | % Fixture | 12.8 | 0.0 | 12.8 |
| Street Side | Lumens | 5611.0 | 0.0 | 5611.0 |
| | % Fixture | 87.2 | 0.0 | 87.2 |
| Total | Lumens | 6434.0 | 0.0 | 6434.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 70.9 | 1.1 |
| 10°-20° | 209.3 | 3.3 |
| 20°-30° | 379.8 | 5.9 |
| 30°-40° | 727.5 | 11.3 |
| 40°-50° | 1340.9 | 20.8 |
| 50°-60° | 1731.9 | 26.9 |
| 60°-70° | 1418.6 | 22.0 |
| 70°-80° | 521.5 | 8.1 |
| 80°-90° | 33.6 | 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° | 6434.0 | 100.0 |
| 0°-180° | 6434.0 | 100.0 |

Coefficient of Utilization

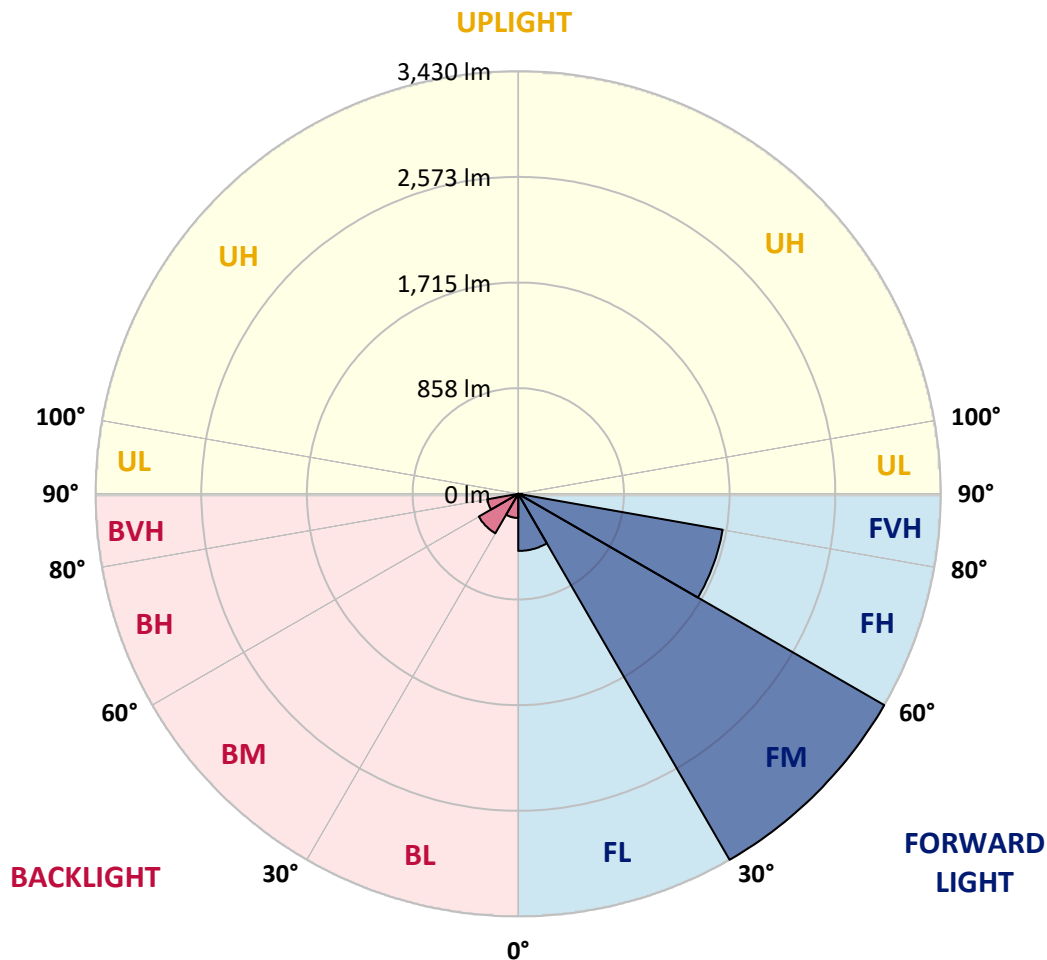


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 463.9 | 7.2 | | | |
| FM (30°-60°) | 3430.3 | 53.3 | | | |
| FH (60°-80°) | 1684.7 | 26.2 | | | G1/1800 |
| FVH (80°-90°) | 32.1 | 0.5 | | | G1/100 |
| BL (0°-30°) | 196.2 | 3.0 | B1/500 | | |
| BM (30°-60°) | 370.0 | 5.8 | B1/1000 | | |
| BH (60°-80°) | 255.3 | 4.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.5 | 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° | 747.6 | 747.6 | 747.6 | 747.6 | 747.6 | 747.6 | 747.6 | 747.6 | 747.6 | 747.6 | 747.6 |
| 2.5° | 774.1 | 774.1 | 778.6 | 776.4 | 776.4 | 771.9 | 765.3 | 767.5 | 765.3 | 763.1 | 756.4 |
| 5° | 760.9 | 763.1 | 765.3 | 769.7 | 778.6 | 783.0 | 783.0 | 785.2 | 785.2 | 783.0 | 774.1 |
| 7.5° | 754.2 | 758.7 | 763.1 | 767.5 | 778.6 | 785.2 | 796.3 | 809.5 | 809.5 | 811.7 | 802.9 |
| 10° | 778.6 | 783.0 | 789.6 | 796.3 | 807.3 | 818.4 | 827.2 | 842.7 | 842.7 | 847.1 | 844.9 |
| 12.5° | 829.4 | 829.4 | 831.6 | 836.1 | 851.6 | 864.8 | 880.3 | 893.6 | 895.8 | 898.0 | 891.4 |
| 15° | 891.4 | 891.4 | 893.6 | 893.6 | 902.4 | 922.3 | 951.1 | 964.4 | 962.1 | 959.9 | 946.7 |
| 17.5° | 962.1 | 962.1 | 962.1 | 964.4 | 968.8 | 979.8 | 1013.0 | 1039.6 | 1037.3 | 1035.1 | 1008.6 |
| 20° | 1028.5 | 1032.9 | 1037.3 | 1039.6 | 1044.0 | 1052.8 | 1088.2 | 1119.2 | 1125.8 | 1117.0 | 1070.5 |
| 22.5° | 1103.7 | 1105.9 | 1108.1 | 1114.8 | 1125.8 | 1130.2 | 1165.6 | 1212.1 | 1218.7 | 1207.7 | 1145.7 |
| 25° | 1178.9 | 1183.3 | 1190.0 | 1198.8 | 1209.9 | 1232.0 | 1256.3 | 1318.3 | 1324.9 | 1311.6 | 1227.6 |
| 27.5° | 1344.8 | 1342.6 | 1322.7 | 1307.2 | 1309.4 | 1324.9 | 1358.1 | 1424.4 | 1431.1 | 1417.8 | 1309.4 |
| 30° | 1627.9 | 1601.4 | 1563.8 | 1495.2 | 1428.8 | 1435.5 | 1481.9 | 1546.1 | 1557.1 | 1539.4 | 1400.1 |
| 32.5° | 2030.5 | 2003.9 | 1911.0 | 1760.6 | 1614.6 | 1566.0 | 1625.7 | 1687.6 | 1700.9 | 1681.0 | 1506.3 |
| 35° | 2422.0 | 2415.3 | 2326.8 | 2145.5 | 1897.8 | 1762.8 | 1778.3 | 1857.9 | 1862.4 | 1838.0 | 1639.0 |
| 37.5° | 2906.3 | 2882.0 | 2760.4 | 2556.9 | 2264.9 | 2023.8 | 1979.6 | 2054.8 | 2065.9 | 2037.1 | 1800.4 |
| 40° | 3227.1 | 3218.2 | 3145.2 | 3001.5 | 2687.4 | 2384.4 | 2225.1 | 2298.1 | 2295.9 | 2253.9 | 1986.2 |
| 42.5° | 3412.9 | 3417.3 | 3412.9 | 3344.3 | 3165.1 | 2817.9 | 2550.2 | 2554.7 | 2561.3 | 2517.1 | 2200.8 |
| 45° | 3538.9 | 3538.9 | 3545.6 | 3600.9 | 3532.3 | 3335.4 | 2946.2 | 2846.6 | 2855.5 | 2786.9 | 2424.2 |
| 47.5° | 3536.7 | 3550.0 | 3585.4 | 3713.7 | 3806.6 | 3817.6 | 3441.6 | 3187.2 | 3182.8 | 3078.9 | 2654.2 |
| 50° | 3297.8 | 3289.0 | 3435.0 | 3722.5 | 4001.2 | 4215.8 | 3910.5 | 3547.8 | 3510.2 | 3381.9 | 2893.1 |
| 52.5° | 2760.4 | 2789.1 | 3032.4 | 3454.9 | 4047.7 | 4485.6 | 4315.3 | 3941.5 | 3892.8 | 3682.7 | 3103.2 |
| 55° | 2291.5 | 2322.4 | 2559.1 | 2972.7 | 3795.5 | 4580.7 | 4587.3 | 4359.5 | 4262.2 | 3943.7 | 3320.0 |
| 57.5° | 1720.8 | 1780.5 | 2130.0 | 2519.3 | 3242.5 | 4344.0 | 4684.7 | 4759.9 | 4653.7 | 4195.8 | 3496.9 |
| 60° | 1099.3 | 1134.7 | 1526.2 | 2006.1 | 2627.7 | 3724.7 | 4664.8 | 4992.1 | 4934.6 | 4425.9 | 3645.1 |
| 62.5° | 718.8 | 738.8 | 1008.6 | 1510.7 | 2001.7 | 2806.8 | 4428.1 | 5085.0 | 5085.0 | 4580.7 | 3755.7 |
| 64° | 541.9 | 546.3 | 738.8 | 1227.6 | 1669.9 | 2187.5 | 4149.4 | 5056.2 | 5109.3 | 4673.6 | 3777.8 |
| 65° | 429.1 | 431.3 | 577.3 | 1019.7 | 1499.6 | 1793.8 | 3906.1 | 4994.3 | 5080.6 | 4709.0 | 3791.1 |
| 67.5° | 300.8 | 307.4 | 373.8 | 588.3 | 1075.0 | 1035.1 | 2895.3 | 4702.4 | 4808.5 | 4720.0 | 3773.4 |
| 70° | 261.0 | 269.8 | 314.1 | 384.9 | 767.5 | 601.6 | 1539.4 | 4007.8 | 4133.9 | 4397.1 | 3512.4 |
| 72.5° | 199.1 | 210.1 | 263.2 | 325.1 | 539.7 | 407.0 | 595.0 | 2846.6 | 3045.7 | 3399.6 | 2899.7 |
| 75° | 143.8 | 148.2 | 194.6 | 265.4 | 378.2 | 314.1 | 256.6 | 1468.7 | 1669.9 | 2006.1 | 1802.6 |
| 77.5° | 90.7 | 97.3 | 132.7 | 199.1 | 338.4 | 238.9 | 152.6 | 535.3 | 674.6 | 873.7 | 787.4 |
| 80° | 53.1 | 55.3 | 79.6 | 137.1 | 227.8 | 176.9 | 97.3 | 190.2 | 230.0 | 325.1 | 210.1 |
| 82.5° | 31.0 | 33.2 | 50.9 | 92.9 | 148.2 | 137.1 | 61.9 | 97.3 | 108.4 | 123.9 | 44.2 |
| 85° | 11.1 | 11.1 | 35.4 | 55.3 | 79.6 | 68.6 | 35.4 | 50.9 | 55.3 | 68.6 | 13.3 |
| 87.5° | 2.2 | 2.2 | 17.7 | 28.8 | 28.8 | 11.1 | 17.7 | 22.1 | 26.5 | 37.6 | 4.4 |
| 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° | 747.6 | 747.6 | 747.6 | 747.6 | 747.6 | 747.6 | 747.6 | 747.6 | 747.6 | 747.6 | 747.6 |
| 2.5° | 754.2 | 747.6 | 741.0 | 732.1 | 725.5 | 712.2 | 705.6 | 696.7 | 694.5 | 690.1 | 687.9 |
| 5° | 771.9 | 760.9 | 745.4 | 723.3 | 710.0 | 690.1 | 676.8 | 663.5 | 661.3 | 656.9 | 654.7 |
| 7.5° | 796.3 | 785.2 | 765.3 | 741.0 | 718.8 | 698.9 | 683.5 | 663.5 | 643.6 | 628.2 | 628.2 |
| 10° | 836.1 | 822.8 | 796.3 | 774.1 | 747.6 | 705.6 | 632.6 | 566.2 | 524.2 | 497.7 | 488.8 |
| 12.5° | 884.7 | 867.0 | 838.3 | 811.7 | 760.9 | 628.2 | 515.4 | 429.1 | 358.3 | 325.1 | 318.5 |
| 15° | 935.6 | 920.1 | 891.4 | 851.6 | 698.9 | 524.2 | 376.0 | 243.3 | 174.7 | 143.8 | 148.2 |
| 17.5° | 990.9 | 968.8 | 935.6 | 856.0 | 614.9 | 391.5 | 201.3 | 123.9 | 106.2 | 101.7 | 101.7 |
| 20° | 1048.4 | 1019.7 | 986.5 | 807.3 | 506.5 | 225.6 | 115.0 | 92.9 | 86.3 | 79.6 | 81.8 |
| 22.5° | 1110.3 | 1075.0 | 1024.1 | 734.3 | 362.7 | 121.7 | 88.5 | 75.2 | 66.4 | 64.1 | 64.1 |
| 25° | 1176.7 | 1125.8 | 1061.7 | 650.3 | 210.1 | 92.9 | 73.0 | 59.7 | 53.1 | 50.9 | 48.7 |
| 27.5° | 1247.5 | 1183.3 | 1070.5 | 539.7 | 119.4 | 77.4 | 57.5 | 46.4 | 39.8 | 37.6 | 37.6 |
| 30° | 1311.6 | 1240.8 | 1050.6 | 400.3 | 90.7 | 64.1 | 46.4 | 35.4 | 31.0 | 31.0 | 31.0 |
| 32.5° | 1397.9 | 1305.0 | 988.7 | 249.9 | 73.0 | 50.9 | 35.4 | 28.8 | 24.3 | 24.3 | 24.3 |
| 35° | 1510.7 | 1400.1 | 926.8 | 132.7 | 59.7 | 42.0 | 28.8 | 22.1 | 19.9 | 19.9 | 19.9 |
| 37.5° | 1665.5 | 1526.2 | 871.5 | 84.0 | 48.7 | 33.2 | 22.1 | 17.7 | 15.5 | 15.5 | 15.5 |
| 40° | 1824.8 | 1676.6 | 794.0 | 64.1 | 39.8 | 26.5 | 17.7 | 13.3 | 11.1 | 11.1 | 13.3 |
| 42.5° | 2023.8 | 1851.3 | 705.6 | 55.3 | 33.2 | 22.1 | 13.3 | 8.8 | 6.6 | 8.8 | 8.8 |
| 45° | 2225.1 | 2034.9 | 581.7 | 46.4 | 28.8 | 17.7 | 8.8 | 4.4 | 4.4 | 6.6 | 6.6 |
| 47.5° | 2433.0 | 2229.5 | 451.2 | 39.8 | 24.3 | 13.3 | 6.6 | 2.2 | 2.2 | 4.4 | 4.4 |
| 50° | 2647.6 | 2422.0 | 336.2 | 35.4 | 19.9 | 11.1 | 4.4 | 2.2 | 0.0 | 2.2 | 2.2 |
| 52.5° | 2862.1 | 2607.7 | 261.0 | 31.0 | 17.7 | 8.8 | 2.2 | 0.0 | 0.0 | 0.0 | 2.2 |
| 55° | 3061.2 | 2775.8 | 207.9 | 26.5 | 15.5 | 6.6 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 3229.3 | 2899.7 | 165.9 | 24.3 | 13.3 | 4.4 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 3388.5 | 2997.0 | 128.3 | 19.9 | 11.1 | 4.4 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 3501.3 | 3034.6 | 104.0 | 17.7 | 8.8 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 64° | 3550.0 | 3039.1 | 90.7 | 15.5 | 8.8 | 4.4 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 3578.7 | 3025.8 | 84.0 | 15.5 | 8.8 | 4.4 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 3585.4 | 2952.8 | 64.1 | 13.3 | 6.6 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 3390.7 | 2698.4 | 46.4 | 8.8 | 4.4 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2833.4 | 2061.4 | 31.0 | 6.6 | 4.4 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1769.5 | 891.4 | 17.7 | 6.6 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 732.1 | 269.8 | 11.1 | 4.4 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 168.1 | 64.1 | 4.4 | 2.2 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 39.8 | 11.1 | 2.2 | 2.2 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 8.8 | 2.2 | 2.2 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.4 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 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)