

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: P594661

Luminaire Tested: **ISS-PA1C-760-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594661
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: ISS-PA1C-760-U-T2U-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 5700K, 615mA 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: 5031 lumens
Efficiency: N/A
Efficacy: 102.9 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

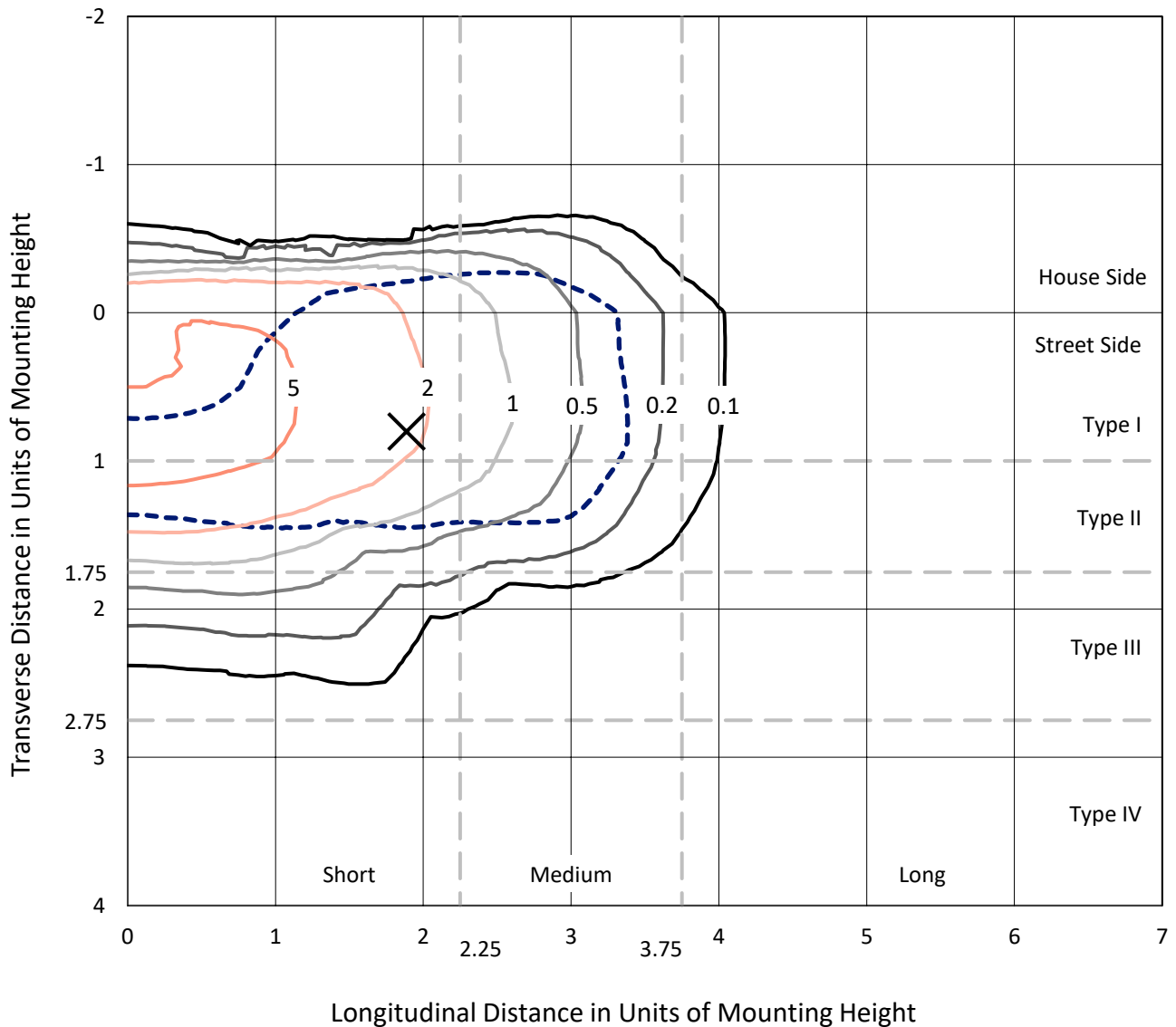
Input Watts (W): 48.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

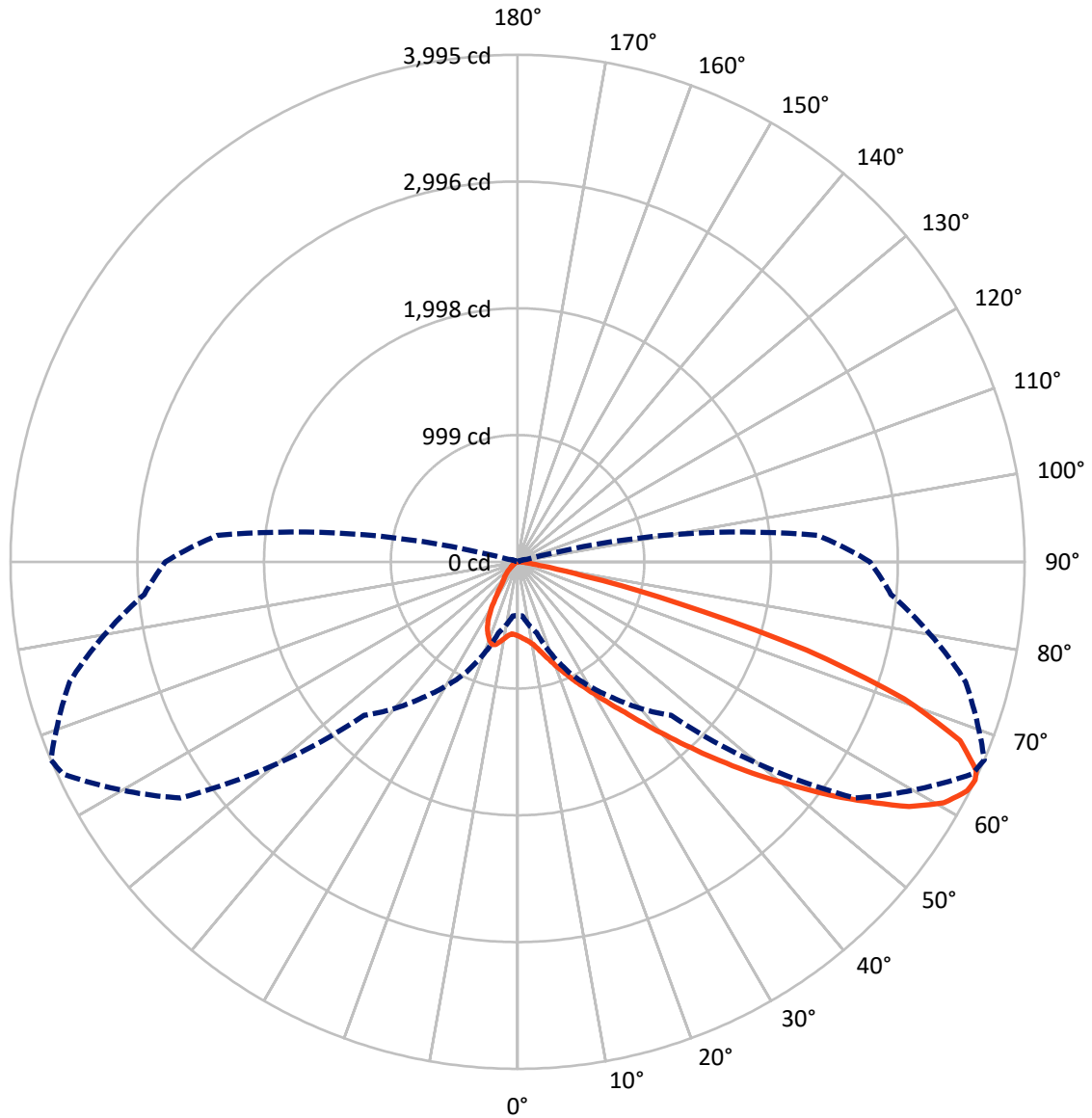
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.7 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 | 643.6 | 0.0 | 643.6 |
| | % Fixture | 12.8 | 0.0 | 12.8 |
| Street Side | Lumens | 4387.4 | 0.0 | 4387.4 |
| | % Fixture | 87.2 | 0.0 | 87.2 |
| Total | Lumens | 5031.0 | 0.0 | 5031.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 55.5 | 1.1 |
| 10°-20° | 163.7 | 3.3 |
| 20°-30° | 297.0 | 5.9 |
| 30°-40° | 568.9 | 11.3 |
| 40°-50° | 1048.5 | 20.8 |
| 50°-60° | 1354.2 | 26.9 |
| 60°-70° | 1109.2 | 22.0 |
| 70°-80° | 407.8 | 8.1 |
| 80°-90° | 26.3 | 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° | 5031.0 | 100.0 |
| 0°-180° | 5031.0 | 100.0 |

Coefficient of Utilization

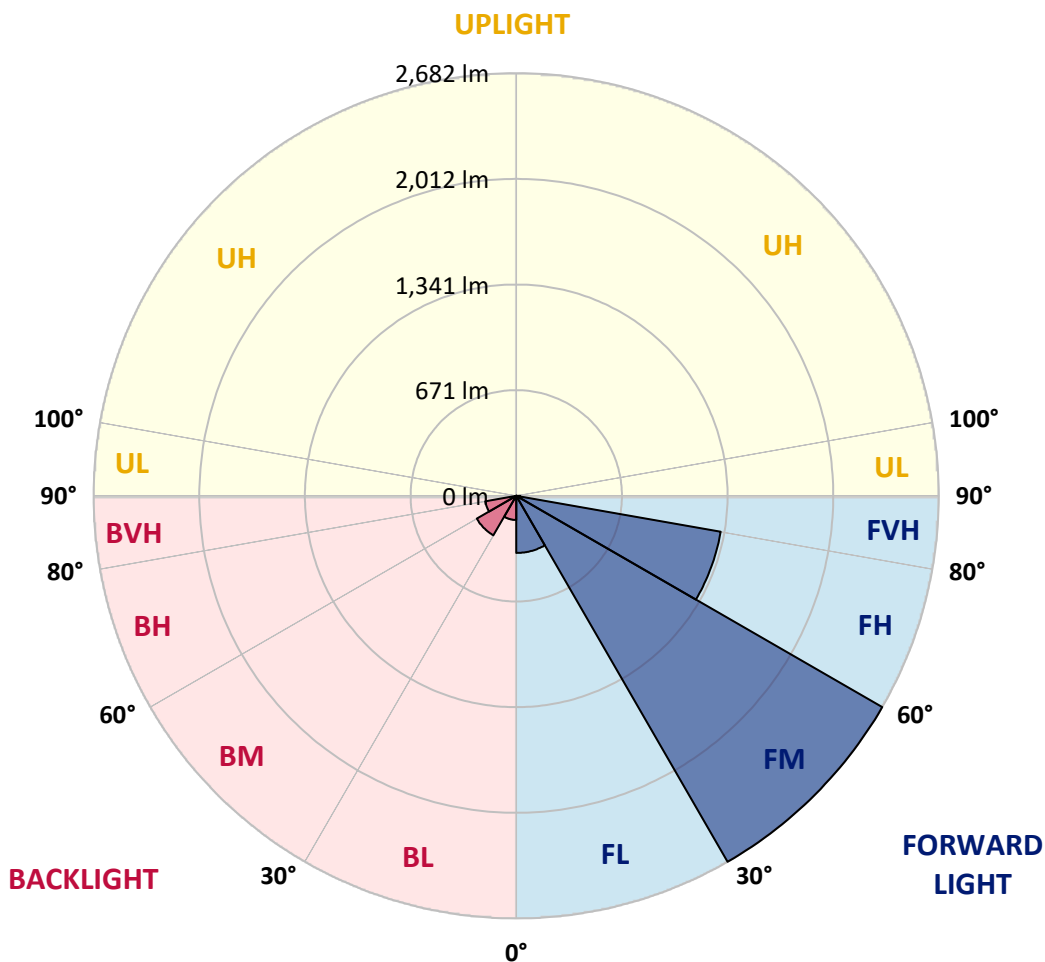


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 362.7 | 7.2 | | | |
| FM (30°-60°) | 2682.2 | 53.3 | | | |
| FH (60°-80°) | 1317.3 | 26.2 | | | G1/1800 |
| FVH (80°-90°) | 25.1 | 0.5 | | | G1/100 |
| BL (0°-30°) | 153.4 | 3.0 | B1/500 | | |
| BM (30°-60°) | 289.4 | 5.8 | B1/1000 | | |
| BH (60°-80°) | 199.7 | 4.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.2 | 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° | 584.6 | 584.6 | 584.6 | 584.6 | 584.6 | 584.6 | 584.6 | 584.6 | 584.6 | 584.6 | 584.6 |
| 2.5° | 605.3 | 605.3 | 608.8 | 607.1 | 607.1 | 603.6 | 598.4 | 600.1 | 598.4 | 596.7 | 591.5 |
| 5° | 595.0 | 596.7 | 598.4 | 601.9 | 608.8 | 612.2 | 612.2 | 614.0 | 614.0 | 612.2 | 605.3 |
| 7.5° | 589.8 | 593.2 | 596.7 | 600.1 | 608.8 | 614.0 | 622.6 | 633.0 | 633.0 | 634.7 | 627.8 |
| 10° | 608.8 | 612.2 | 617.4 | 622.6 | 631.3 | 639.9 | 646.8 | 658.9 | 658.9 | 662.4 | 660.7 |
| 12.5° | 648.6 | 648.6 | 650.3 | 653.8 | 665.9 | 676.2 | 688.3 | 698.7 | 700.5 | 702.2 | 697.0 |
| 15° | 697.0 | 697.0 | 698.7 | 698.7 | 705.6 | 721.2 | 743.7 | 754.1 | 752.3 | 750.6 | 740.2 |
| 17.5° | 752.3 | 752.3 | 752.3 | 754.1 | 757.5 | 766.2 | 792.1 | 812.9 | 811.1 | 809.4 | 788.7 |
| 20° | 804.2 | 807.7 | 811.1 | 812.9 | 816.3 | 823.3 | 850.9 | 875.1 | 880.3 | 873.4 | 837.1 |
| 22.5° | 863.0 | 864.8 | 866.5 | 871.7 | 880.3 | 883.8 | 911.5 | 947.8 | 953.0 | 944.3 | 895.9 |
| 25° | 921.8 | 925.3 | 930.5 | 937.4 | 946.0 | 963.3 | 982.4 | 1030.8 | 1036.0 | 1025.6 | 959.9 |
| 27.5° | 1051.5 | 1049.8 | 1034.3 | 1022.1 | 1023.9 | 1036.0 | 1061.9 | 1113.8 | 1119.0 | 1108.6 | 1023.9 |
| 30° | 1272.9 | 1252.2 | 1222.8 | 1169.2 | 1117.3 | 1122.5 | 1158.8 | 1208.9 | 1217.6 | 1203.7 | 1094.8 |
| 32.5° | 1587.7 | 1566.9 | 1494.3 | 1376.7 | 1262.5 | 1224.5 | 1271.2 | 1319.6 | 1330.0 | 1314.4 | 1177.8 |
| 35° | 1893.8 | 1888.6 | 1819.5 | 1677.6 | 1483.9 | 1378.4 | 1390.5 | 1452.8 | 1456.3 | 1437.2 | 1281.6 |
| 37.5° | 2272.6 | 2253.6 | 2158.4 | 1999.3 | 1771.0 | 1582.5 | 1547.9 | 1606.7 | 1615.4 | 1592.9 | 1407.8 |
| 40° | 2523.4 | 2516.4 | 2459.4 | 2347.0 | 2101.4 | 1864.4 | 1739.9 | 1797.0 | 1795.2 | 1762.4 | 1553.1 |
| 42.5° | 2668.6 | 2672.1 | 2668.6 | 2615.0 | 2474.9 | 2203.4 | 1994.1 | 1997.6 | 2002.8 | 1968.2 | 1720.9 |
| 45° | 2767.2 | 2767.2 | 2772.4 | 2815.7 | 2762.0 | 2608.1 | 2303.7 | 2225.9 | 2232.8 | 2179.2 | 1895.6 |
| 47.5° | 2765.5 | 2775.9 | 2803.5 | 2903.9 | 2976.5 | 2985.1 | 2691.1 | 2492.2 | 2488.8 | 2407.5 | 2075.4 |
| 50° | 2578.7 | 2571.8 | 2685.9 | 2910.8 | 3128.7 | 3296.5 | 3057.8 | 2774.1 | 2744.7 | 2644.4 | 2262.2 |
| 52.5° | 2158.4 | 2180.9 | 2371.2 | 2701.5 | 3165.0 | 3507.5 | 3374.3 | 3082.0 | 3044.0 | 2879.6 | 2426.5 |
| 55° | 1791.8 | 1816.0 | 2001.1 | 2324.5 | 2967.9 | 3581.8 | 3587.0 | 3408.9 | 3332.8 | 3083.7 | 2596.0 |
| 57.5° | 1345.6 | 1392.3 | 1665.5 | 1969.9 | 2535.5 | 3396.8 | 3663.1 | 3721.9 | 3638.9 | 3280.9 | 2734.4 |
| 60° | 859.6 | 887.2 | 1193.4 | 1568.7 | 2054.7 | 2912.5 | 3647.6 | 3903.5 | 3858.6 | 3460.8 | 2850.2 |
| 62.5° | 562.1 | 577.7 | 788.7 | 1181.3 | 1565.2 | 2194.8 | 3462.5 | 3976.2 | 3976.2 | 3581.8 | 2936.7 |
| 64° | 423.7 | 427.2 | 577.7 | 959.9 | 1305.8 | 1710.5 | 3244.6 | 3953.7 | 3995.2 | 3654.5 | 2954.0 |
| 65° | 335.5 | 337.3 | 451.4 | 797.3 | 1172.6 | 1402.6 | 3054.3 | 3905.3 | 3972.7 | 3682.1 | 2964.4 |
| 67.5° | 235.2 | 240.4 | 292.3 | 460.1 | 840.5 | 809.4 | 2263.9 | 3677.0 | 3760.0 | 3690.8 | 2950.6 |
| 70° | 204.1 | 211.0 | 245.6 | 300.9 | 600.1 | 470.4 | 1203.7 | 3133.9 | 3232.5 | 3438.3 | 2746.5 |
| 72.5° | 155.7 | 164.3 | 205.8 | 254.2 | 422.0 | 318.2 | 465.2 | 2225.9 | 2381.5 | 2658.3 | 2267.4 |
| 75° | 112.4 | 115.9 | 152.2 | 207.5 | 295.7 | 245.6 | 200.6 | 1148.4 | 1305.8 | 1568.7 | 1409.6 |
| 77.5° | 70.9 | 76.1 | 103.8 | 155.7 | 264.6 | 186.8 | 119.3 | 418.5 | 527.5 | 683.2 | 615.7 |
| 80° | 41.5 | 43.2 | 62.3 | 107.2 | 178.1 | 138.4 | 76.1 | 148.7 | 179.9 | 254.2 | 164.3 |
| 82.5° | 24.2 | 25.9 | 39.8 | 72.6 | 115.9 | 107.2 | 48.4 | 76.1 | 84.7 | 96.9 | 34.6 |
| 85° | 8.6 | 8.6 | 27.7 | 43.2 | 62.3 | 53.6 | 27.7 | 39.8 | 43.2 | 53.6 | 10.4 |
| 87.5° | 1.7 | 1.7 | 13.8 | 22.5 | 22.5 | 8.6 | 13.8 | 17.3 | 20.8 | 29.4 | 3.5 |
| 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° | 584.6 | 584.6 | 584.6 | 584.6 | 584.6 | 584.6 | 584.6 | 584.6 | 584.6 | 584.6 | 584.6 |
| 2.5° | 589.8 | 584.6 | 579.4 | 572.5 | 567.3 | 556.9 | 551.7 | 544.8 | 543.1 | 539.6 | 537.9 |
| 5° | 603.6 | 595.0 | 582.8 | 565.6 | 555.2 | 539.6 | 529.2 | 518.9 | 517.1 | 513.7 | 511.9 |
| 7.5° | 622.6 | 614.0 | 598.4 | 579.4 | 562.1 | 546.5 | 534.4 | 518.9 | 503.3 | 491.2 | 491.2 |
| 10° | 653.8 | 643.4 | 622.6 | 605.3 | 584.6 | 551.7 | 494.6 | 442.8 | 409.9 | 389.1 | 382.2 |
| 12.5° | 691.8 | 678.0 | 655.5 | 634.7 | 595.0 | 491.2 | 403.0 | 335.5 | 280.2 | 254.2 | 249.1 |
| 15° | 731.6 | 719.5 | 697.0 | 665.9 | 546.5 | 409.9 | 294.0 | 190.2 | 136.6 | 112.4 | 115.9 |
| 17.5° | 774.8 | 757.5 | 731.6 | 669.3 | 480.8 | 306.1 | 157.4 | 96.9 | 83.0 | 79.6 | 79.6 |
| 20° | 819.8 | 797.3 | 771.4 | 631.3 | 396.1 | 176.4 | 89.9 | 72.6 | 67.5 | 62.3 | 64.0 |
| 22.5° | 868.2 | 840.5 | 800.8 | 574.2 | 283.6 | 95.1 | 69.2 | 58.8 | 51.9 | 50.2 | 50.2 |
| 25° | 920.1 | 880.3 | 830.2 | 508.5 | 164.3 | 72.6 | 57.1 | 46.7 | 41.5 | 39.8 | 38.0 |
| 27.5° | 975.4 | 925.3 | 837.1 | 422.0 | 93.4 | 60.5 | 45.0 | 36.3 | 31.1 | 29.4 | 29.4 |
| 30° | 1025.6 | 970.3 | 821.5 | 313.0 | 70.9 | 50.2 | 36.3 | 27.7 | 24.2 | 24.2 | 24.2 |
| 32.5° | 1093.1 | 1020.4 | 773.1 | 195.4 | 57.1 | 39.8 | 27.7 | 22.5 | 19.0 | 19.0 | 19.0 |
| 35° | 1181.3 | 1094.8 | 724.7 | 103.8 | 46.7 | 32.9 | 22.5 | 17.3 | 15.6 | 15.6 | 15.6 |
| 37.5° | 1302.3 | 1193.4 | 681.4 | 65.7 | 38.0 | 25.9 | 17.3 | 13.8 | 12.1 | 12.1 | 12.1 |
| 40° | 1426.9 | 1311.0 | 620.9 | 50.2 | 31.1 | 20.8 | 13.8 | 10.4 | 8.6 | 8.6 | 10.4 |
| 42.5° | 1582.5 | 1447.6 | 551.7 | 43.2 | 25.9 | 17.3 | 10.4 | 6.9 | 5.2 | 6.9 | 6.9 |
| 45° | 1739.9 | 1591.2 | 454.9 | 36.3 | 22.5 | 13.8 | 6.9 | 3.5 | 3.5 | 5.2 | 5.2 |
| 47.5° | 1902.5 | 1743.4 | 352.8 | 31.1 | 19.0 | 10.4 | 5.2 | 1.7 | 1.7 | 3.5 | 3.5 |
| 50° | 2070.2 | 1893.8 | 262.9 | 27.7 | 15.6 | 8.6 | 3.5 | 1.7 | 0.0 | 1.7 | 1.7 |
| 52.5° | 2238.0 | 2039.1 | 204.1 | 24.2 | 13.8 | 6.9 | 1.7 | 0.0 | 0.0 | 0.0 | 1.7 |
| 55° | 2393.7 | 2170.5 | 162.6 | 20.8 | 12.1 | 5.2 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 2525.1 | 2267.4 | 129.7 | 19.0 | 10.4 | 3.5 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 2649.6 | 2343.5 | 100.3 | 15.6 | 8.6 | 3.5 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 2737.8 | 2372.9 | 81.3 | 13.8 | 6.9 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 64° | 2775.9 | 2376.4 | 70.9 | 12.1 | 6.9 | 3.5 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 2798.4 | 2366.0 | 65.7 | 12.1 | 6.9 | 3.5 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 2803.5 | 2308.9 | 50.2 | 10.4 | 5.2 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 2651.4 | 2110.0 | 36.3 | 6.9 | 3.5 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2215.5 | 1611.9 | 24.2 | 5.2 | 3.5 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1383.6 | 697.0 | 13.8 | 5.2 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 572.5 | 211.0 | 8.6 | 3.5 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 131.4 | 50.2 | 3.5 | 1.7 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 31.1 | 8.6 | 1.7 | 1.7 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 6.9 | 1.7 | 1.7 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.5 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 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)