

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: P594690

Luminaire Tested: **ISS-PA1D-722-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1D-722-U-T3-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 2200K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4749 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

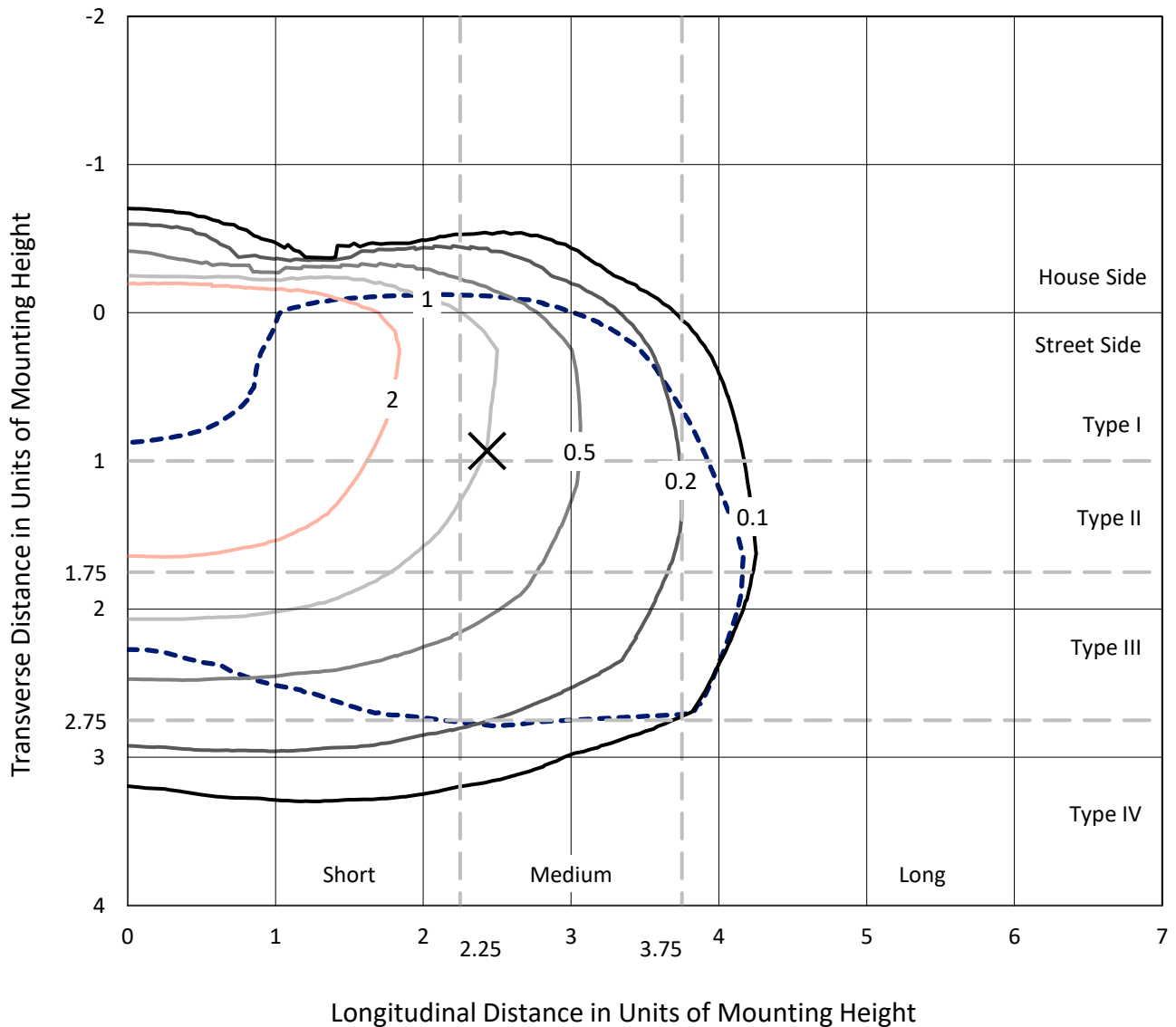
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

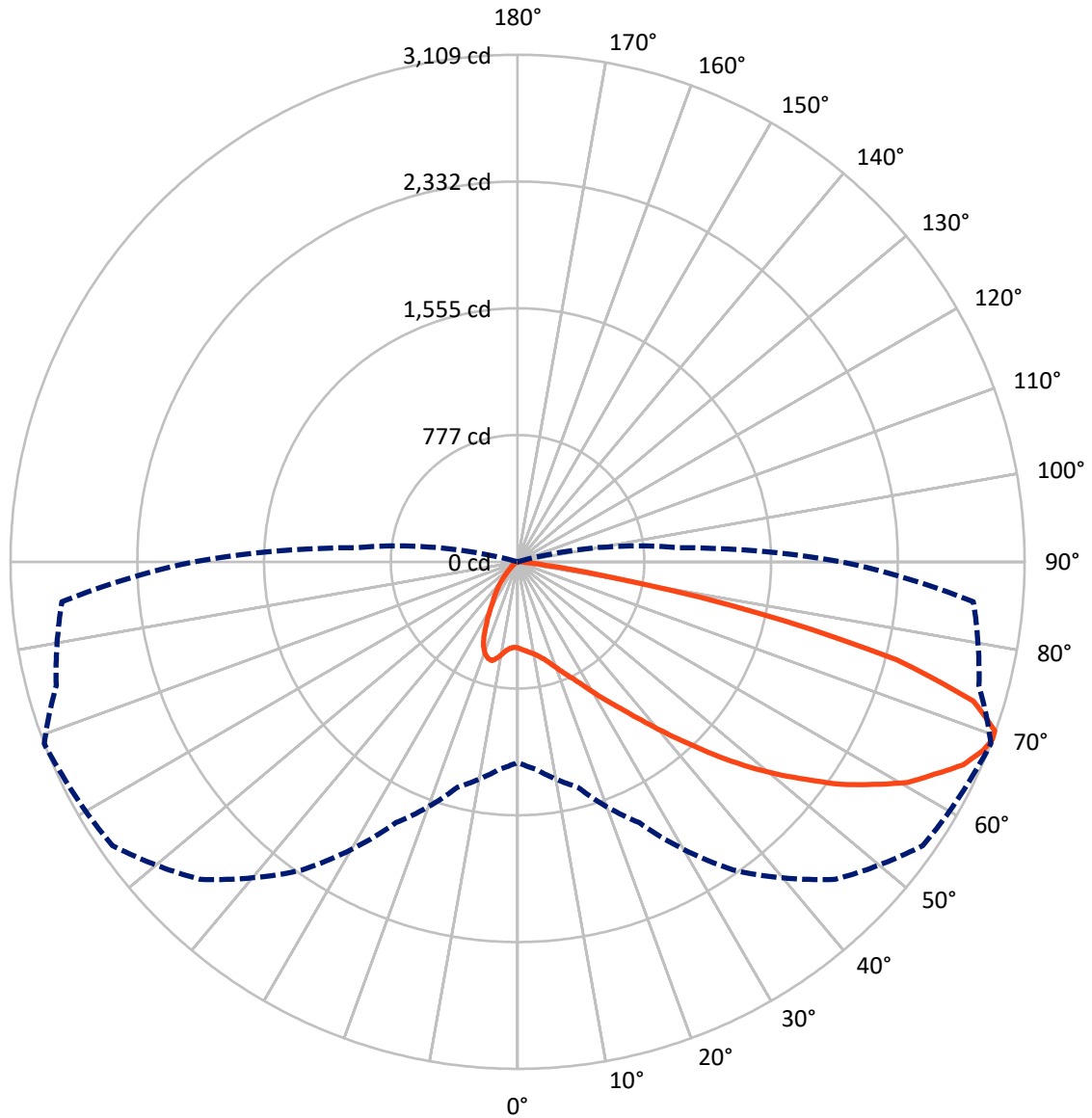
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 462.8 | 0.0 | 462.8 |
| | % Fixture | 9.7 | 0.0 | 9.7 |
| Street Side | Lumens | 4286.3 | 0.0 | 4286.3 |
| | % Fixture | 90.3 | 0.0 | 90.3 |
| Total | Lumens | 4749.0 | 0.0 | 4749.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 50.4 | 1.1 |
| 10°-20° | 133.3 | 2.8 |
| 20°-30° | 221.9 | 4.7 |
| 30°-40° | 399.5 | 8.4 |
| 40°-50° | 724.3 | 15.3 |
| 50°-60° | 1131.9 | 23.8 |
| 60°-70° | 1309.6 | 27.6 |
| 70°-80° | 732.4 | 15.4 |
| 80°-90° | 45.7 | 1.0 |
| 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° | 4749.0 | 100.0 |
| 0°-180° | 4749.0 | 100.0 |

Coefficient of Utilization

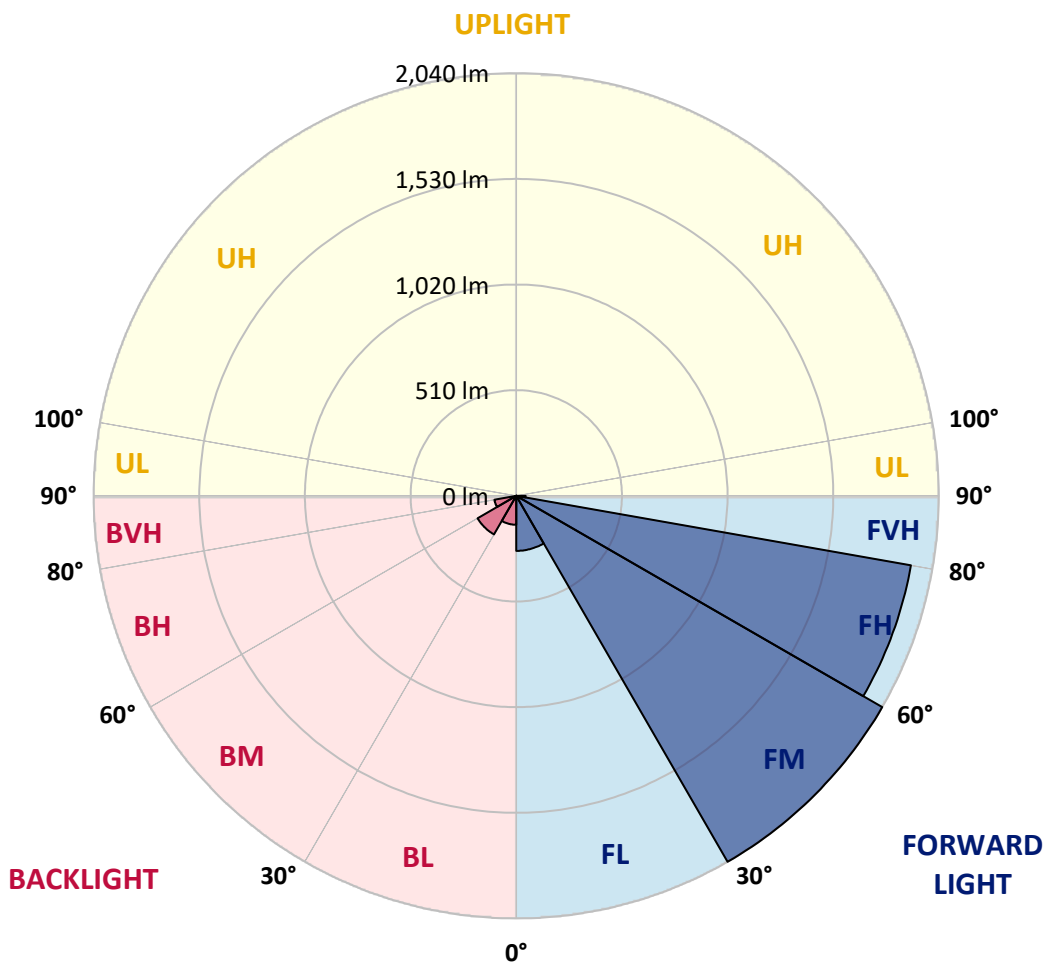


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 265.7 | 5.6 | | | |
| FM (30°-60°) | 2040.3 | 43.0 | | | |
| FH (60°-80°) | 1934.9 | 40.7 | | | G2/5000 |
| FVH (80°-90°) | 45.4 | 1.0 | | | G1/100 |
| BL (0°-30°) | 139.8 | 2.9 | B1/500 | | |
| BM (30°-60°) | 215.4 | 4.5 | B0/220 | | |
| BH (60°-80°) | 107.2 | 2.3 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.3 | 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-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 69° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 528.2 | 528.2 | 528.2 | 528.2 | 528.2 | 528.2 | 528.2 | 528.2 | 528.2 | 528.2 | 528.2 |
| 2.5° | 547.2 | 547.2 | 547.2 | 544.1 | 545.6 | 544.1 | 542.5 | 537.7 | 539.3 | 537.7 | 533.0 |
| 5° | 528.2 | 529.8 | 534.6 | 537.7 | 545.6 | 548.8 | 550.4 | 550.4 | 548.8 | 545.6 | 542.5 |
| 7.5° | 491.9 | 491.9 | 496.6 | 506.1 | 521.9 | 539.3 | 553.6 | 561.5 | 563.0 | 563.0 | 558.3 |
| 10° | 482.4 | 482.4 | 488.7 | 495.0 | 510.9 | 531.4 | 553.6 | 572.5 | 575.7 | 578.9 | 577.3 |
| 12.5° | 477.6 | 479.2 | 485.5 | 496.6 | 517.2 | 536.2 | 559.9 | 586.8 | 596.3 | 604.2 | 605.7 |
| 15° | 484.0 | 484.0 | 490.3 | 501.4 | 525.1 | 552.0 | 582.0 | 612.1 | 621.6 | 632.6 | 640.5 |
| 17.5° | 493.5 | 496.6 | 499.8 | 510.9 | 533.0 | 566.2 | 605.7 | 645.3 | 656.4 | 670.6 | 676.9 |
| 20° | 509.3 | 509.3 | 512.4 | 521.9 | 545.6 | 585.2 | 640.5 | 688.0 | 697.5 | 707.0 | 714.9 |
| 22.5° | 528.2 | 529.8 | 529.8 | 537.7 | 564.6 | 607.3 | 670.6 | 729.1 | 744.9 | 749.7 | 752.8 |
| 25° | 585.2 | 582.0 | 571.0 | 566.2 | 586.8 | 632.6 | 707.0 | 778.1 | 795.5 | 800.3 | 794.0 |
| 27.5° | 703.8 | 691.2 | 661.1 | 629.5 | 626.3 | 672.2 | 756.0 | 839.8 | 858.8 | 860.4 | 838.2 |
| 30° | 852.5 | 854.1 | 805.0 | 737.0 | 691.2 | 714.9 | 809.8 | 917.3 | 936.3 | 928.4 | 893.6 |
| 32.5° | 1035.9 | 1028.0 | 991.7 | 893.6 | 801.9 | 781.3 | 868.3 | 998.0 | 1020.1 | 1007.5 | 961.6 |
| 35° | 1192.5 | 1197.3 | 1153.0 | 1066.0 | 950.5 | 884.1 | 939.5 | 1088.1 | 1115.0 | 1092.9 | 1035.9 |
| 37.5° | 1323.8 | 1330.1 | 1303.2 | 1232.1 | 1129.3 | 1024.9 | 1032.8 | 1194.1 | 1230.5 | 1208.3 | 1137.2 |
| 40° | 1469.3 | 1474.0 | 1463.0 | 1385.5 | 1293.7 | 1192.5 | 1157.7 | 1315.9 | 1364.9 | 1334.9 | 1260.5 |
| 42.5° | 1629.0 | 1646.4 | 1627.5 | 1565.8 | 1470.9 | 1383.9 | 1331.7 | 1464.5 | 1513.6 | 1494.6 | 1395.0 |
| 45° | 1847.3 | 1848.9 | 1826.7 | 1765.1 | 1667.0 | 1595.8 | 1532.6 | 1622.7 | 1686.0 | 1662.2 | 1545.2 |
| 47.5° | 2008.6 | 2019.7 | 2007.0 | 1964.3 | 1885.3 | 1837.8 | 1750.8 | 1796.7 | 1863.1 | 1833.1 | 1700.2 |
| 50° | 2132.0 | 2162.0 | 2151.0 | 2163.6 | 2124.1 | 2103.5 | 1970.7 | 1977.0 | 2041.8 | 2016.5 | 1858.4 |
| 52.5° | 2200.0 | 2237.9 | 2241.1 | 2306.0 | 2339.2 | 2389.8 | 2184.2 | 2174.7 | 2215.8 | 2193.7 | 2019.7 |
| 55° | 2190.5 | 2200.0 | 2279.1 | 2397.7 | 2527.4 | 2642.8 | 2392.9 | 2353.4 | 2410.3 | 2348.7 | 2190.5 |
| 57.5° | 2098.8 | 2122.5 | 2261.7 | 2408.8 | 2638.1 | 2805.7 | 2573.2 | 2529.0 | 2576.4 | 2494.2 | 2366.1 |
| 60° | 1967.5 | 2002.3 | 2181.0 | 2391.4 | 2702.9 | 2903.8 | 2748.8 | 2704.5 | 2747.2 | 2647.6 | 2565.3 |
| 62.5° | 1848.9 | 1864.7 | 2029.2 | 2318.6 | 2665.0 | 2899.0 | 2884.8 | 2843.7 | 2869.0 | 2764.6 | 2736.1 |
| 65° | 1679.6 | 1686.0 | 1848.9 | 2187.3 | 2581.1 | 2867.4 | 2959.1 | 2975.0 | 3001.9 | 2862.7 | 2857.9 |
| 67.5° | 1418.7 | 1432.9 | 1594.2 | 1958.0 | 2442.0 | 2805.7 | 3017.7 | 3049.3 | 3080.9 | 2914.9 | 2880.1 |
| 69° | 1230.5 | 1276.3 | 1431.3 | 1765.1 | 2307.5 | 2753.5 | 3033.5 | 3084.1 | 3109.4 | 2929.1 | 2805.7 |
| 70° | 1077.1 | 1116.6 | 1295.3 | 1616.4 | 2188.9 | 2695.0 | 3044.6 | 3079.3 | 3104.7 | 2899.0 | 2684.0 |
| 72.5° | 540.9 | 591.5 | 836.7 | 1179.9 | 1739.7 | 2427.7 | 2987.6 | 2949.7 | 2922.8 | 2666.6 | 2171.5 |
| 75° | 208.8 | 216.7 | 359.0 | 672.2 | 1088.1 | 1782.4 | 2551.1 | 2479.9 | 2400.8 | 2022.8 | 1287.4 |
| 77.5° | 115.5 | 113.9 | 156.6 | 297.3 | 463.4 | 871.5 | 1725.5 | 1611.6 | 1502.5 | 1086.5 | 521.9 |
| 80° | 49.0 | 52.2 | 68.0 | 142.3 | 243.6 | 302.1 | 838.2 | 744.9 | 593.1 | 344.8 | 124.9 |
| 82.5° | 30.1 | 31.6 | 47.4 | 87.0 | 169.2 | 115.5 | 272.0 | 232.5 | 170.8 | 93.3 | 30.1 |
| 85° | 9.5 | 11.1 | 33.2 | 58.5 | 82.2 | 47.4 | 61.7 | 53.8 | 47.4 | 39.5 | 9.5 |
| 87.5° | 1.6 | 1.6 | 12.7 | 31.6 | 22.1 | 7.9 | 6.3 | 11.1 | 17.4 | 19.0 | 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° | 528.2 | 528.2 | 528.2 | 528.2 | 528.2 | 528.2 | 528.2 | 528.2 | 528.2 | 528.2 | 528.2 |
| 2.5° | 531.4 | 528.2 | 525.1 | 523.5 | 523.5 | 520.3 | 518.8 | 517.2 | 517.2 | 515.6 | 515.6 |
| 5° | 537.7 | 534.6 | 531.4 | 529.8 | 526.7 | 525.1 | 525.1 | 525.1 | 523.5 | 525.1 | 526.7 |
| 7.5° | 553.6 | 548.8 | 547.2 | 545.6 | 545.6 | 540.9 | 533.0 | 512.4 | 491.9 | 485.5 | 479.2 |
| 10° | 575.7 | 574.1 | 574.1 | 574.1 | 563.0 | 521.9 | 465.0 | 414.4 | 387.5 | 365.3 | 365.3 |
| 12.5° | 607.3 | 607.3 | 605.7 | 601.0 | 544.1 | 444.4 | 355.9 | 279.9 | 235.7 | 210.4 | 213.5 |
| 15° | 642.1 | 640.5 | 643.7 | 613.7 | 479.2 | 343.2 | 215.1 | 151.8 | 128.1 | 124.9 | 124.9 |
| 17.5° | 678.5 | 681.7 | 678.5 | 580.4 | 393.8 | 211.9 | 128.1 | 115.5 | 112.3 | 112.3 | 112.3 |
| 20° | 716.5 | 713.3 | 708.6 | 523.5 | 286.3 | 132.9 | 110.7 | 107.5 | 104.4 | 102.8 | 102.8 |
| 22.5° | 754.4 | 751.3 | 719.6 | 450.8 | 178.7 | 109.1 | 104.4 | 98.1 | 93.3 | 91.7 | 91.7 |
| 25° | 790.8 | 790.8 | 699.1 | 357.4 | 121.8 | 102.8 | 94.9 | 88.6 | 83.8 | 79.1 | 79.1 |
| 27.5° | 836.7 | 839.8 | 665.8 | 249.9 | 102.8 | 94.9 | 85.4 | 75.9 | 69.6 | 66.4 | 66.4 |
| 30° | 888.9 | 893.6 | 612.1 | 162.9 | 93.3 | 83.8 | 74.3 | 63.3 | 53.8 | 50.6 | 49.0 |
| 32.5° | 950.5 | 955.3 | 550.4 | 107.5 | 83.8 | 72.8 | 61.7 | 47.4 | 38.0 | 36.4 | 34.8 |
| 35° | 1029.6 | 1018.5 | 476.1 | 85.4 | 72.8 | 61.7 | 47.4 | 33.2 | 26.9 | 25.3 | 25.3 |
| 37.5° | 1127.7 | 1103.9 | 390.7 | 74.3 | 61.7 | 49.0 | 34.8 | 22.1 | 17.4 | 17.4 | 15.8 |
| 40° | 1240.0 | 1173.5 | 302.1 | 66.4 | 52.2 | 38.0 | 22.1 | 14.2 | 11.1 | 11.1 | 11.1 |
| 42.5° | 1363.3 | 1232.1 | 215.1 | 58.5 | 42.7 | 26.9 | 14.2 | 7.9 | 6.3 | 6.3 | 6.3 |
| 45° | 1505.7 | 1285.8 | 147.1 | 50.6 | 36.4 | 19.0 | 7.9 | 3.2 | 3.2 | 3.2 | 3.2 |
| 47.5° | 1648.0 | 1320.6 | 98.1 | 44.3 | 26.9 | 11.1 | 4.7 | 1.6 | 1.6 | 1.6 | 1.6 |
| 50° | 1791.9 | 1347.5 | 75.9 | 38.0 | 19.0 | 6.3 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 1920.0 | 1366.5 | 61.7 | 31.6 | 12.7 | 4.7 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 2030.8 | 1368.1 | 53.8 | 25.3 | 9.5 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 2143.0 | 1355.4 | 45.9 | 19.0 | 6.3 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 2211.1 | 1322.2 | 36.4 | 14.2 | 4.7 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 2252.2 | 1266.9 | 28.5 | 9.5 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 2228.5 | 1197.3 | 20.6 | 6.3 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 2117.7 | 1089.7 | 14.2 | 4.7 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 69° | 1986.5 | 991.7 | 12.7 | 3.2 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 1871.0 | 915.7 | 11.1 | 3.2 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1393.4 | 589.9 | 9.5 | 3.2 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 782.9 | 197.7 | 6.3 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 294.2 | 50.6 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 64.8 | 12.7 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 14.2 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 4.7 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)