

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: P595689

Luminaire Tested: **ISW-PA1D-727-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595689
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: ISW-PA1D-727-U-T3-HSS
Description: IMPACT ELITE LED WEDGE LUMINAIRE
(1) 70 CRI, 2700K, 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: 5070 lumens
Efficiency: N/A
Efficacy: 81.3 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

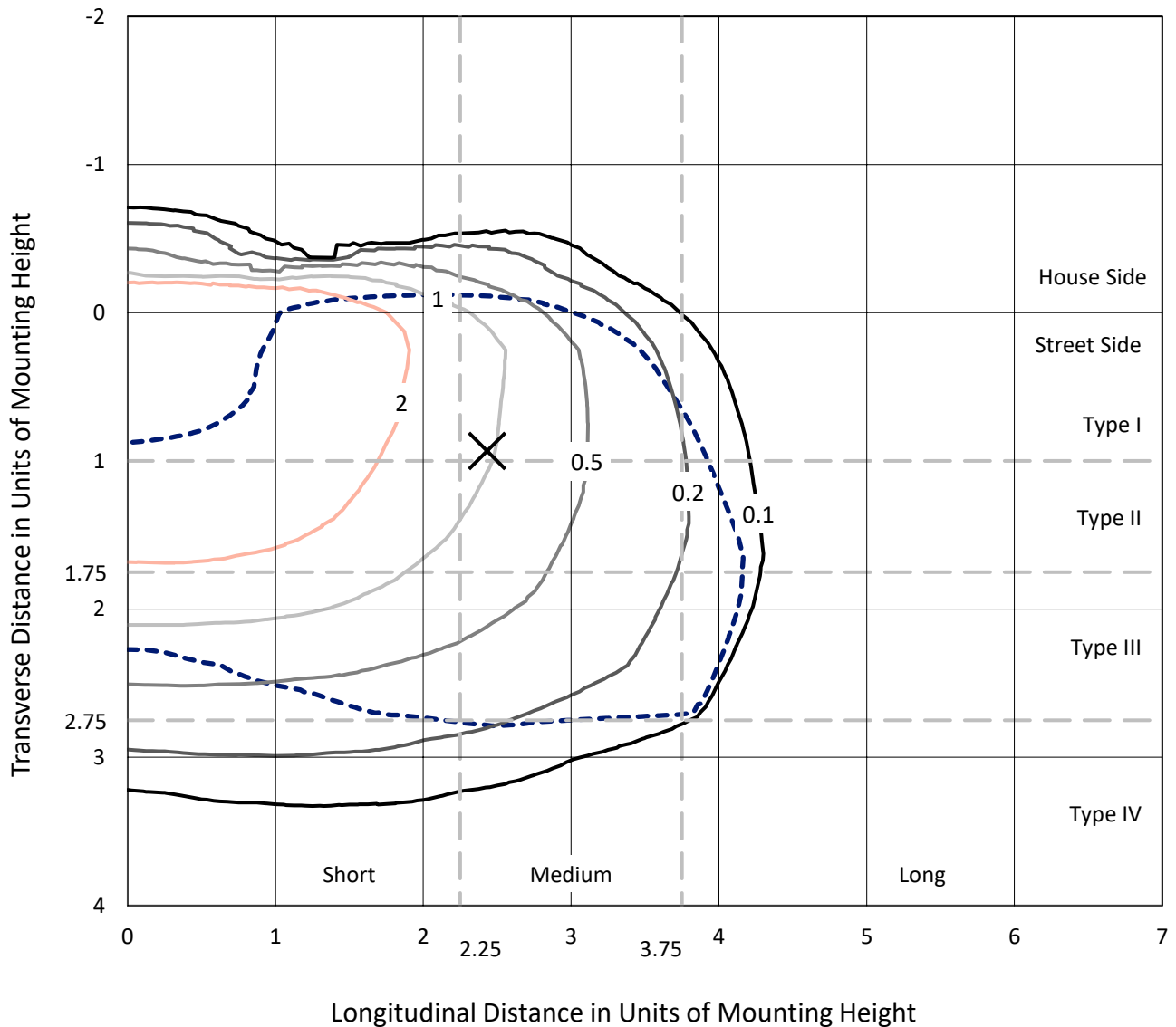
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

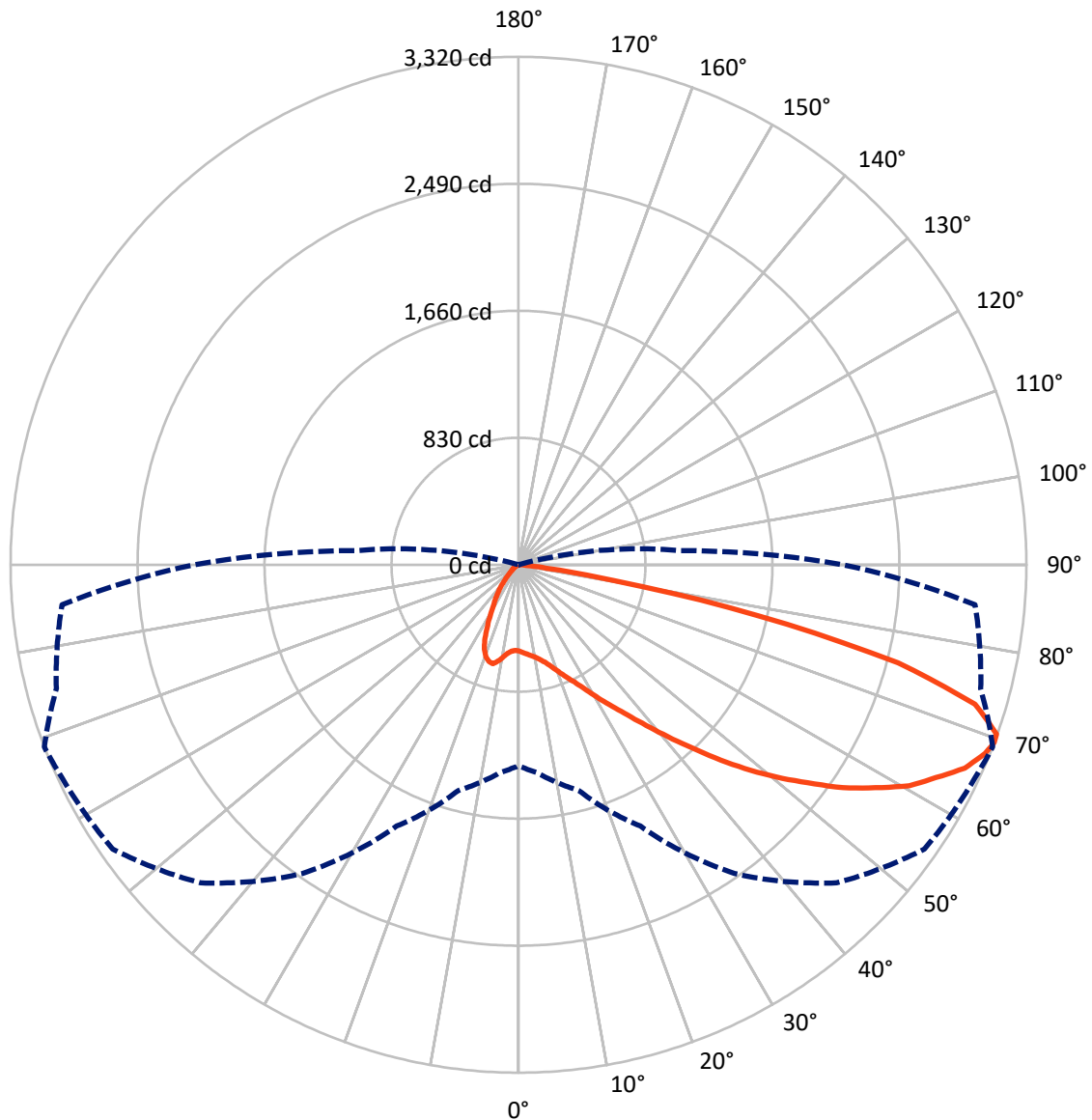
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.9 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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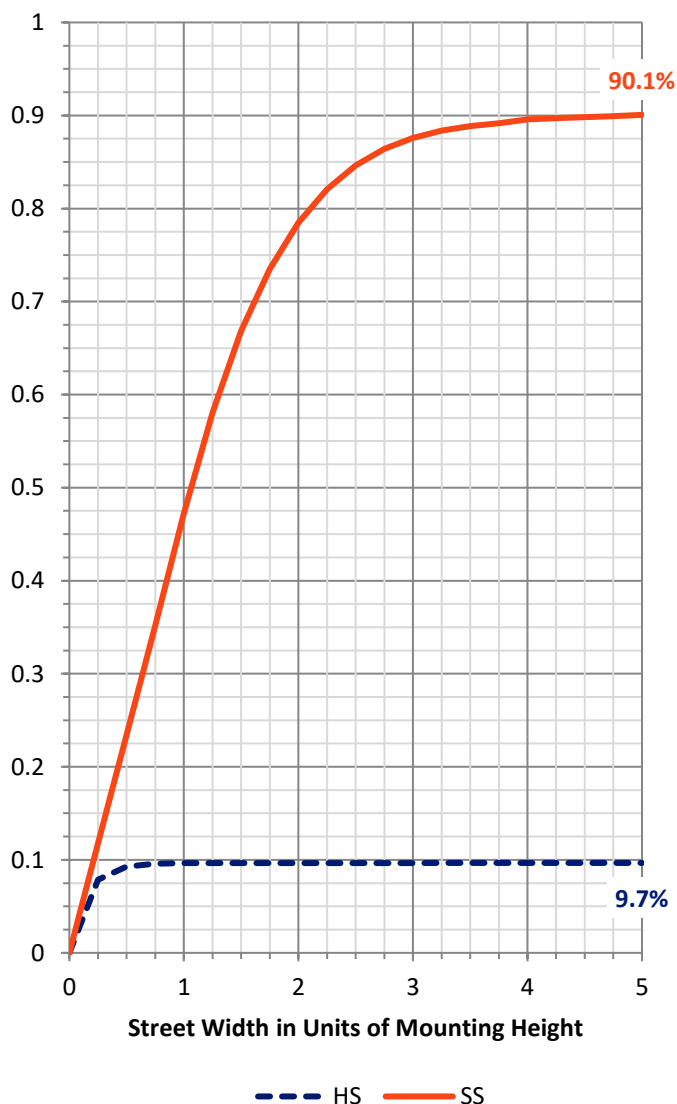
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 494.0 | 0.0 | 494.0 |
| | % Fixture | 9.7 | 0.0 | 9.7 |
| Street Side | Lumens | 4576.0 | 0.0 | 4576.0 |
| | % Fixture | 90.3 | 0.0 | 90.3 |
| Total | Lumens | 5070.0 | 0.0 | 5070.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 53.8 | 1.1 |
| 10°-20° | 142.3 | 2.8 |
| 20°-30° | 236.9 | 4.7 |
| 30°-40° | 426.5 | 8.4 |
| 40°-50° | 773.3 | 15.3 |
| 50°-60° | 1208.5 | 23.8 |
| 60°-70° | 1398.1 | 27.6 |
| 70°-80° | 781.9 | 15.4 |
| 80°-90° | 48.8 | 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° | 5070.0 | 100.0 |
| 0°-180° | 5070.0 | 100.0 |

Coefficient of Utilization

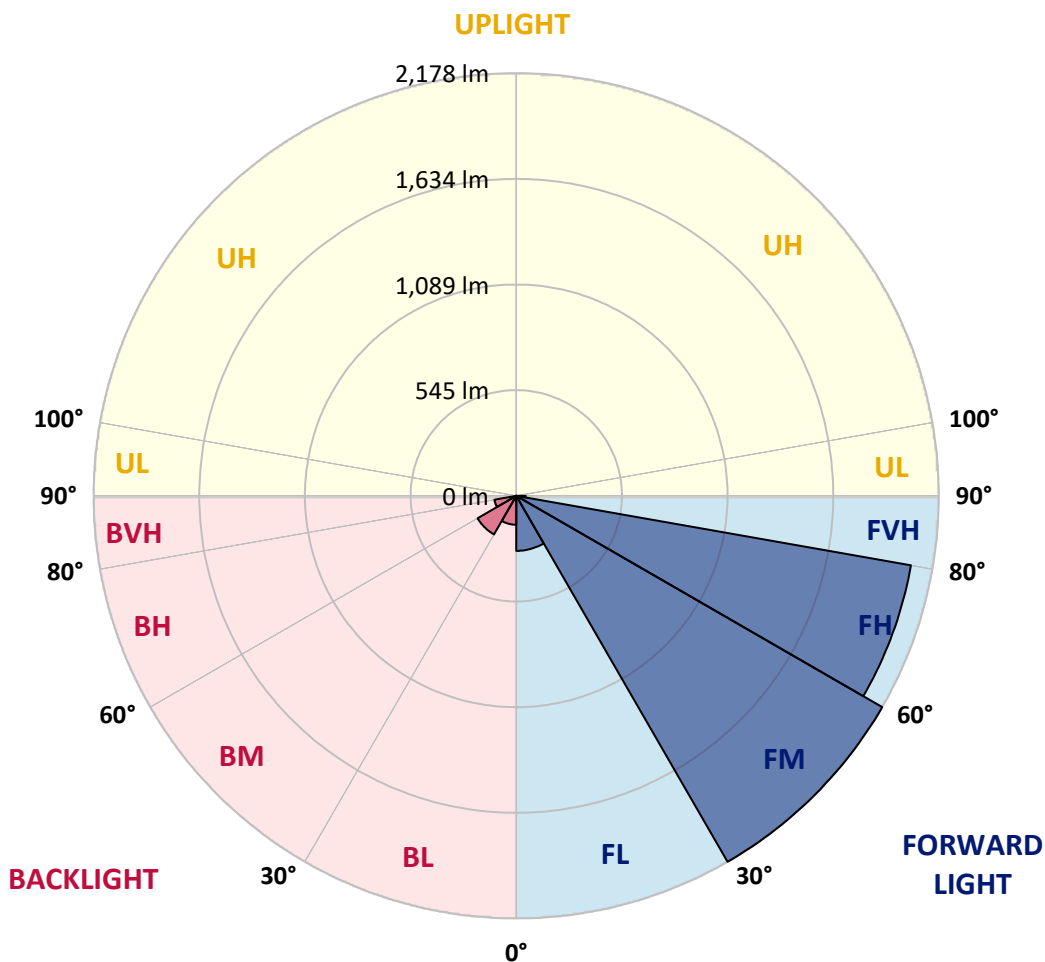


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 283.6 | 5.6 | | | |
| FM (30°-60°) | 2178.2 | 43.0 | | | |
| FH (60°-80°) | 2065.6 | 40.7 | | | G2/5000 |
| FVH (80°-90°) | 48.5 | 1.0 | | | G1/100 |
| BL (0°-30°) | 149.3 | 2.9 | B1/500 | | |
| BM (30°-60°) | 230.0 | 4.5 | B1/1000 | | |
| BH (60°-80°) | 114.4 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.4 | 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° | 564.0 | 564.0 | 564.0 | 564.0 | 564.0 | 564.0 | 564.0 | 564.0 | 564.0 | 564.0 | 564.0 |
| 2.5° | 584.2 | 584.2 | 584.2 | 580.8 | 582.5 | 580.8 | 579.2 | 574.1 | 575.8 | 574.1 | 569.0 |
| 5° | 564.0 | 565.6 | 570.7 | 574.1 | 582.5 | 585.9 | 587.6 | 587.6 | 585.9 | 582.5 | 579.2 |
| 7.5° | 525.1 | 525.1 | 530.2 | 540.3 | 557.2 | 575.8 | 591.0 | 599.4 | 601.1 | 601.1 | 596.0 |
| 10° | 515.0 | 515.0 | 521.7 | 528.5 | 545.4 | 567.3 | 591.0 | 611.2 | 614.6 | 618.0 | 616.3 |
| 12.5° | 509.9 | 511.6 | 518.4 | 530.2 | 552.1 | 572.4 | 597.7 | 626.4 | 636.6 | 645.0 | 646.7 |
| 15° | 516.7 | 516.7 | 523.4 | 535.3 | 560.6 | 589.3 | 621.4 | 653.4 | 663.6 | 675.4 | 683.8 |
| 17.5° | 526.8 | 530.2 | 533.6 | 545.4 | 569.0 | 604.5 | 646.7 | 688.9 | 700.7 | 715.9 | 722.7 |
| 20° | 543.7 | 543.7 | 547.1 | 557.2 | 582.5 | 624.7 | 683.8 | 734.5 | 744.6 | 754.8 | 763.2 |
| 22.5° | 564.0 | 565.6 | 565.6 | 574.1 | 602.8 | 648.4 | 715.9 | 778.4 | 795.3 | 800.3 | 803.7 |
| 25° | 624.7 | 621.4 | 609.5 | 604.5 | 626.4 | 675.4 | 754.8 | 830.7 | 849.3 | 854.4 | 847.6 |
| 27.5° | 751.4 | 737.9 | 705.8 | 672.0 | 668.6 | 717.6 | 807.1 | 896.6 | 916.9 | 918.5 | 894.9 |
| 30° | 910.1 | 911.8 | 859.4 | 786.8 | 737.9 | 763.2 | 864.5 | 979.3 | 999.6 | 991.1 | 954.0 |
| 32.5° | 1106.0 | 1097.5 | 1058.7 | 954.0 | 856.1 | 834.1 | 927.0 | 1065.4 | 1089.1 | 1075.6 | 1026.6 |
| 35° | 1273.1 | 1278.2 | 1230.9 | 1138.0 | 1014.8 | 943.9 | 1003.0 | 1161.7 | 1190.4 | 1166.7 | 1106.0 |
| 37.5° | 1413.3 | 1420.0 | 1391.3 | 1315.3 | 1205.6 | 1094.1 | 1102.6 | 1274.8 | 1313.6 | 1290.0 | 1214.0 |
| 40° | 1568.6 | 1573.7 | 1561.9 | 1479.1 | 1381.2 | 1273.1 | 1236.0 | 1404.8 | 1457.2 | 1425.1 | 1345.7 |
| 42.5° | 1739.1 | 1757.7 | 1737.5 | 1671.6 | 1570.3 | 1477.4 | 1421.7 | 1563.5 | 1615.9 | 1595.6 | 1489.2 |
| 45° | 1972.2 | 1973.8 | 1950.2 | 1884.4 | 1779.7 | 1703.7 | 1636.1 | 1732.4 | 1799.9 | 1774.6 | 1649.7 |
| 47.5° | 2144.4 | 2156.2 | 2142.7 | 2097.1 | 2012.7 | 1962.0 | 1869.2 | 1918.1 | 1989.0 | 1957.0 | 1815.1 |
| 50° | 2276.1 | 2308.2 | 2296.3 | 2309.9 | 2267.6 | 2245.7 | 2103.9 | 2110.6 | 2179.8 | 2152.8 | 1984.0 |
| 52.5° | 2348.7 | 2389.2 | 2392.6 | 2461.8 | 2497.3 | 2551.3 | 2331.8 | 2321.7 | 2365.6 | 2341.9 | 2156.2 |
| 55° | 2338.6 | 2348.7 | 2433.1 | 2559.8 | 2698.2 | 2821.5 | 2554.7 | 2512.5 | 2573.3 | 2507.4 | 2338.6 |
| 57.5° | 2240.6 | 2266.0 | 2414.5 | 2571.6 | 2816.4 | 2995.4 | 2747.2 | 2699.9 | 2750.6 | 2662.7 | 2526.0 |
| 60° | 2100.5 | 2137.6 | 2328.4 | 2553.0 | 2885.6 | 3100.1 | 2934.6 | 2887.3 | 2932.9 | 2826.5 | 2738.7 |
| 62.5° | 1973.8 | 1990.7 | 2166.3 | 2475.3 | 2845.1 | 3095.0 | 3079.8 | 3035.9 | 3062.9 | 2951.5 | 2921.1 |
| 65° | 1793.2 | 1799.9 | 1973.8 | 2335.2 | 2755.6 | 3061.2 | 3159.2 | 3176.1 | 3204.8 | 3056.2 | 3051.1 |
| 67.5° | 1514.6 | 1529.8 | 1702.0 | 2090.4 | 2607.0 | 2995.4 | 3221.6 | 3255.4 | 3289.2 | 3111.9 | 3074.7 |
| 69° | 1313.6 | 1362.6 | 1528.1 | 1884.4 | 2463.5 | 2939.7 | 3238.5 | 3292.6 | 3319.6 | 3127.1 | 2995.4 |
| 70° | 1149.9 | 1192.1 | 1382.9 | 1725.6 | 2336.9 | 2877.2 | 3250.3 | 3287.5 | 3314.5 | 3095.0 | 2865.4 |
| 72.5° | 577.5 | 631.5 | 893.2 | 1259.6 | 1857.3 | 2591.8 | 3189.6 | 3149.0 | 3120.3 | 2846.8 | 2318.3 |
| 75° | 222.9 | 231.3 | 383.3 | 717.6 | 1161.7 | 1902.9 | 2723.5 | 2647.6 | 2563.1 | 2159.6 | 1374.4 |
| 77.5° | 123.3 | 121.6 | 167.2 | 317.4 | 494.7 | 930.4 | 1842.1 | 1720.6 | 1604.1 | 1160.0 | 557.2 |
| 80° | 52.3 | 55.7 | 72.6 | 152.0 | 260.0 | 322.5 | 894.9 | 795.3 | 633.2 | 368.1 | 133.4 |
| 82.5° | 32.1 | 33.8 | 50.7 | 92.9 | 180.7 | 123.3 | 290.4 | 248.2 | 182.4 | 99.6 | 32.1 |
| 85° | 10.1 | 11.8 | 35.5 | 62.5 | 87.8 | 50.7 | 65.9 | 57.4 | 50.7 | 42.2 | 10.1 |
| 87.5° | 1.7 | 1.7 | 13.5 | 33.8 | 23.6 | 8.4 | 6.8 | 11.8 | 18.6 | 20.3 | 3.4 |
| 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° | 564.0 | 564.0 | 564.0 | 564.0 | 564.0 | 564.0 | 564.0 | 564.0 | 564.0 | 564.0 | 564.0 |
| 2.5° | 567.3 | 564.0 | 560.6 | 558.9 | 558.9 | 555.5 | 553.8 | 552.1 | 552.1 | 550.4 | 550.4 |
| 5° | 574.1 | 570.7 | 567.3 | 565.6 | 562.3 | 560.6 | 560.6 | 560.6 | 558.9 | 560.6 | 562.3 |
| 7.5° | 591.0 | 585.9 | 584.2 | 582.5 | 582.5 | 577.5 | 569.0 | 547.1 | 525.1 | 518.4 | 511.6 |
| 10° | 614.6 | 612.9 | 612.9 | 612.9 | 601.1 | 557.2 | 496.4 | 442.4 | 413.7 | 390.0 | 390.0 |
| 12.5° | 648.4 | 648.4 | 646.7 | 641.6 | 580.8 | 474.5 | 379.9 | 298.9 | 251.6 | 224.6 | 227.9 |
| 15° | 685.5 | 683.8 | 687.2 | 655.1 | 511.6 | 366.4 | 229.6 | 162.1 | 136.8 | 133.4 | 133.4 |
| 17.5° | 724.4 | 727.7 | 724.4 | 619.7 | 420.4 | 226.3 | 136.8 | 123.3 | 119.9 | 119.9 | 119.9 |
| 20° | 764.9 | 761.5 | 756.4 | 558.9 | 305.6 | 141.8 | 118.2 | 114.8 | 111.4 | 109.8 | 109.8 |
| 22.5° | 805.4 | 802.0 | 768.3 | 481.2 | 190.8 | 116.5 | 111.4 | 104.7 | 99.6 | 97.9 | 97.9 |
| 25° | 844.2 | 844.2 | 746.3 | 381.6 | 130.0 | 109.8 | 101.3 | 94.6 | 89.5 | 84.4 | 84.4 |
| 27.5° | 893.2 | 896.6 | 710.9 | 266.8 | 109.8 | 101.3 | 91.2 | 81.0 | 74.3 | 70.9 | 70.9 |
| 30° | 948.9 | 954.0 | 653.4 | 173.9 | 99.6 | 89.5 | 79.4 | 67.5 | 57.4 | 54.0 | 52.3 |
| 32.5° | 1014.8 | 1019.8 | 587.6 | 114.8 | 89.5 | 77.7 | 65.9 | 50.7 | 40.5 | 38.8 | 37.1 |
| 35° | 1099.2 | 1087.4 | 508.2 | 91.2 | 77.7 | 65.9 | 50.7 | 35.5 | 28.7 | 27.0 | 27.0 |
| 37.5° | 1203.9 | 1178.6 | 417.1 | 79.4 | 65.9 | 52.3 | 37.1 | 23.6 | 18.6 | 18.6 | 16.9 |
| 40° | 1323.8 | 1252.9 | 322.5 | 70.9 | 55.7 | 40.5 | 23.6 | 15.2 | 11.8 | 11.8 | 11.8 |
| 42.5° | 1455.5 | 1315.3 | 229.6 | 62.5 | 45.6 | 28.7 | 15.2 | 8.4 | 6.8 | 6.8 | 6.8 |
| 45° | 1607.4 | 1372.7 | 157.0 | 54.0 | 38.8 | 20.3 | 8.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 47.5° | 1759.4 | 1409.9 | 104.7 | 47.3 | 28.7 | 11.8 | 5.1 | 1.7 | 1.7 | 1.7 | 1.7 |
| 50° | 1913.1 | 1438.6 | 81.0 | 40.5 | 20.3 | 6.8 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 2049.8 | 1458.9 | 65.9 | 33.8 | 13.5 | 5.1 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 2168.0 | 1460.5 | 57.4 | 27.0 | 10.1 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 2287.9 | 1447.0 | 49.0 | 20.3 | 6.8 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 2360.5 | 1411.6 | 38.8 | 15.2 | 5.1 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 2404.4 | 1352.5 | 30.4 | 10.1 | 3.4 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 2379.1 | 1278.2 | 22.0 | 6.8 | 3.4 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 2260.9 | 1163.4 | 15.2 | 5.1 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 69° | 2120.7 | 1058.7 | 13.5 | 3.4 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 1997.5 | 977.6 | 11.8 | 3.4 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1487.6 | 629.8 | 10.1 | 3.4 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 835.8 | 211.1 | 6.8 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 314.1 | 54.0 | 3.4 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 69.2 | 13.5 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 15.2 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 5.1 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.7 | 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)