

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: P595619

Luminaire Tested: **ISW-PA1C-730-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595619
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISW-PA1C-730-U-T4W-HSS
Description: IMPACT ELITE LED WEDGE LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4376 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

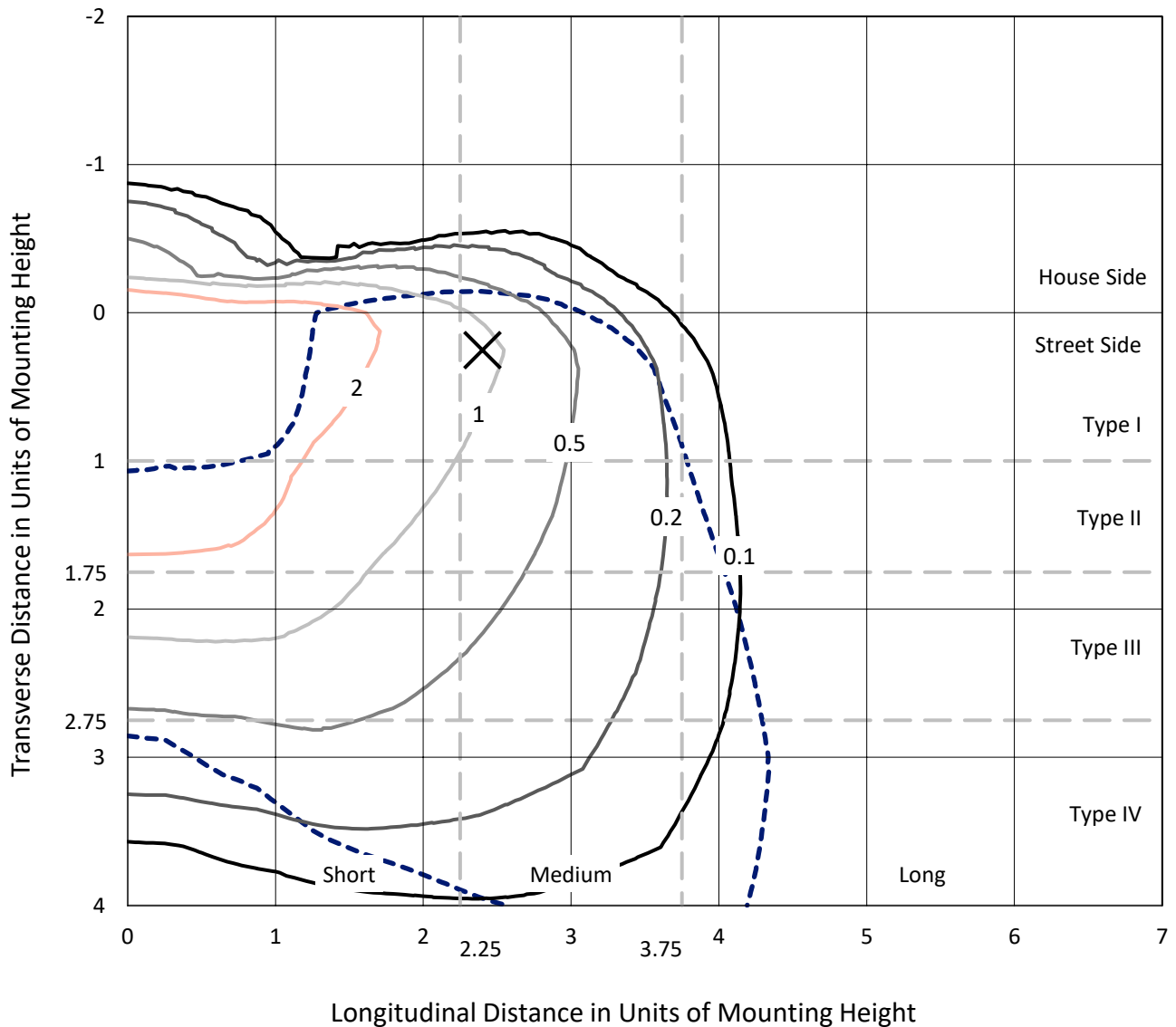
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

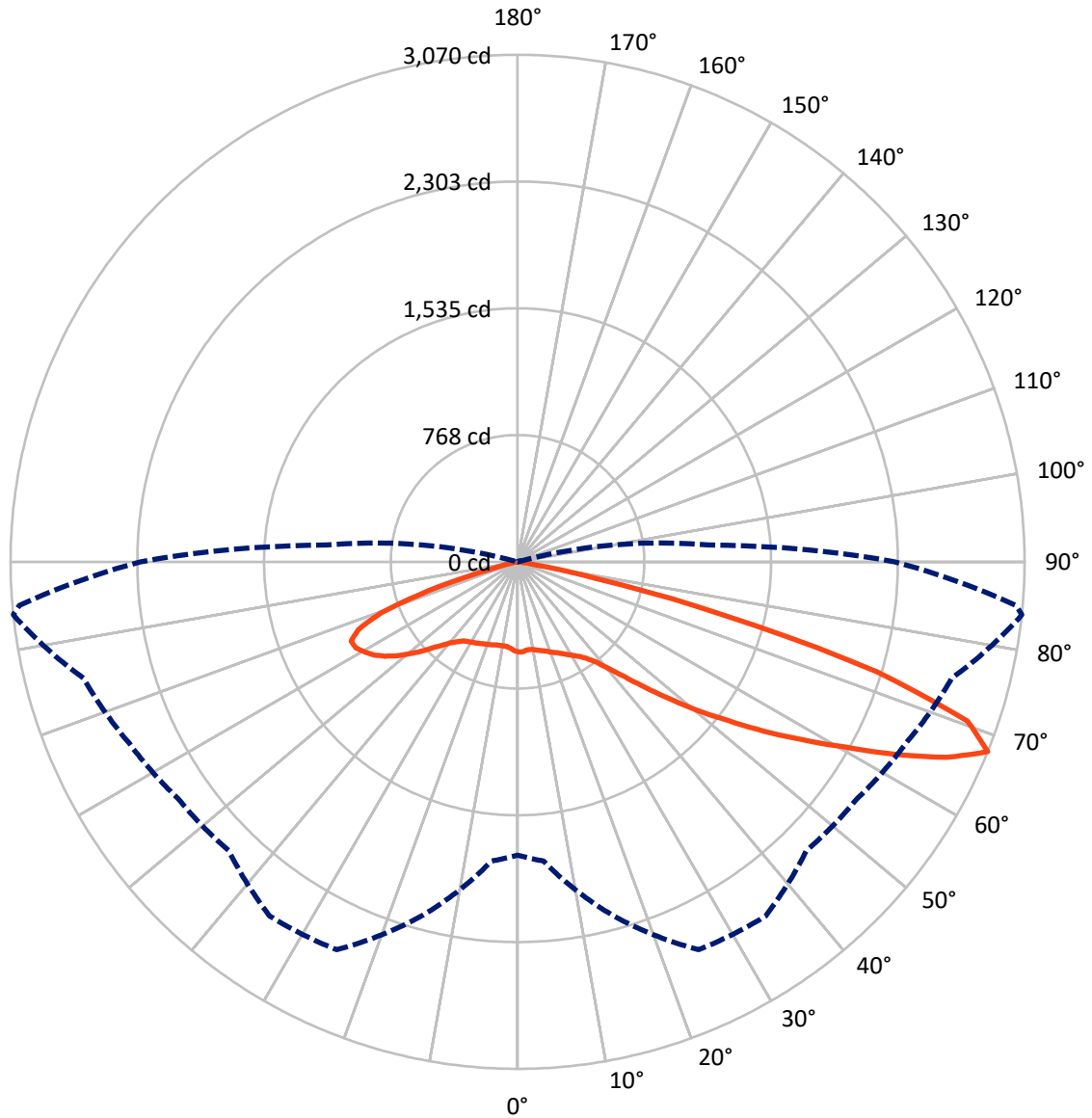
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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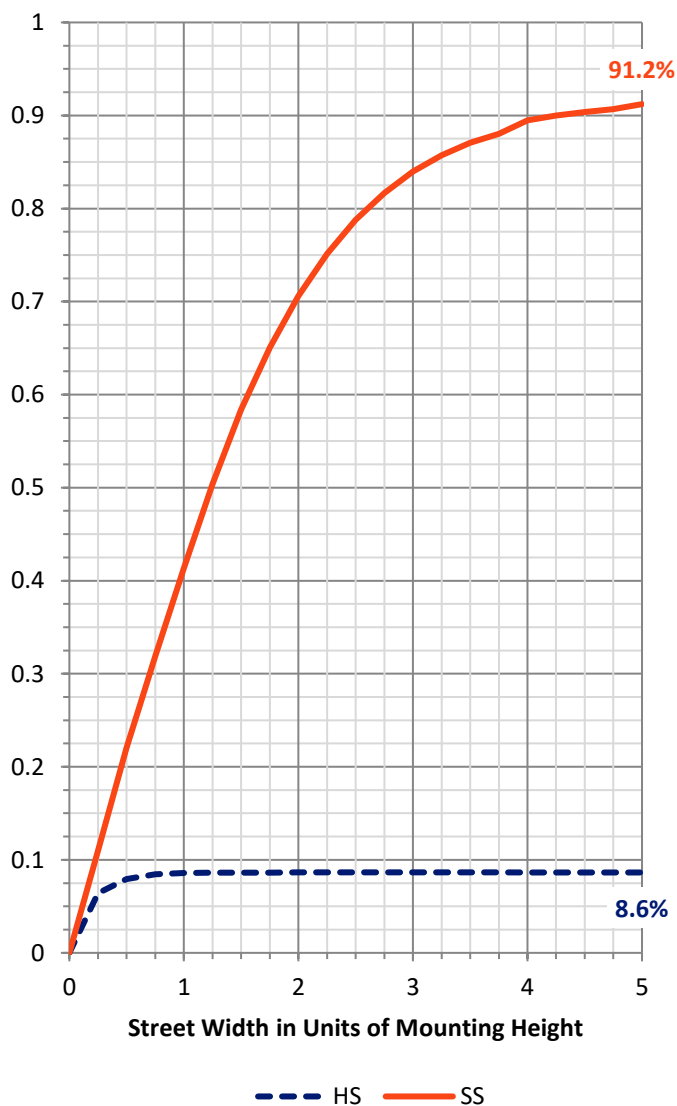
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 381.0 | 0.0 | 381.0 |
| | % Fixture | 8.7 | 0.0 | 8.7 |
| Street Side | Lumens | 3995.0 | 0.0 | 3995.0 |
| | % Fixture | 91.3 | 0.0 | 91.3 |
| Total | Lumens | 4376.0 | 0.0 | 4376.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 48.9 | 1.1 |
| 10°-20° | 127.9 | 2.9 |
| 20°-30° | 204.8 | 4.7 |
| 30°-40° | 294.7 | 6.7 |
| 40°-50° | 505.8 | 11.6 |
| 50°-60° | 883.8 | 20.2 |
| 60°-70° | 1265.6 | 28.9 |
| 70°-80° | 951.2 | 21.7 |
| 80°-90° | 93.4 | 2.1 |
| 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° | 4376.0 | 100.0 |
| 0°-180° | 4376.0 | 100.0 |

Coefficient of Utilization



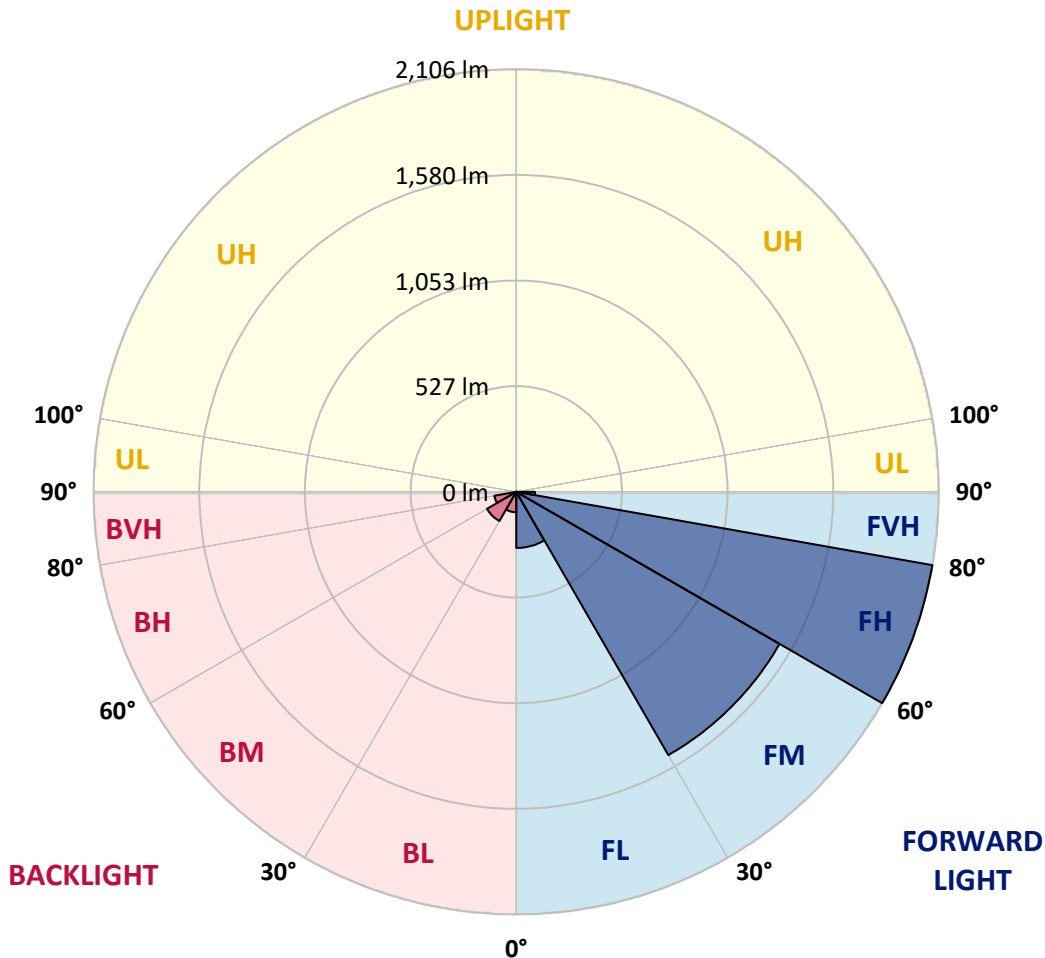
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 279.8 | 6.4 | | | |
| FM (30°-60°) | 1515.8 | 34.6 | | | |
| FH (60°-80°) | 2106.4 | 48.1 | | | G2/5000 |
| FVH (80°-90°) | 93.1 | 2.1 | | | G1/100 |
| BL (0°-30°) | 101.7 | 2.3 | B0/110 | | |
| BM (30°-60°) | 168.5 | 3.9 | B0/220 | | |
| BH (60°-80°) | 110.5 | 2.5 | B1/500 | | G1/500 |
| 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 IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 84° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 545.2 | 545.2 | 545.2 | 545.2 | 545.2 | 545.2 | 545.2 | 545.2 | 545.2 | 545.2 | 545.2 |
| 2.5° | 576.2 | 579.2 | 580.7 | 573.3 | 573.3 | 567.4 | 558.5 | 555.5 | 551.1 | 546.7 | 545.2 |
| 5° | 605.8 | 610.2 | 608.7 | 599.9 | 595.4 | 583.6 | 571.8 | 560.0 | 548.2 | 537.8 | 537.8 |
| 7.5° | 639.8 | 641.2 | 636.8 | 622.0 | 613.2 | 596.9 | 579.2 | 565.9 | 551.1 | 536.3 | 533.4 |
| 10° | 669.3 | 667.8 | 661.9 | 647.1 | 630.9 | 610.2 | 591.0 | 576.2 | 558.5 | 540.8 | 539.3 |
| 12.5° | 690.0 | 691.5 | 684.1 | 663.4 | 647.1 | 623.5 | 604.3 | 589.5 | 568.8 | 549.6 | 545.2 |
| 15° | 707.7 | 712.2 | 703.3 | 682.6 | 659.0 | 638.3 | 623.5 | 604.3 | 580.7 | 558.5 | 555.5 |
| 17.5° | 724.0 | 725.5 | 718.1 | 694.4 | 672.3 | 654.5 | 638.3 | 620.5 | 596.9 | 568.8 | 565.9 |
| 20° | 732.8 | 737.3 | 732.8 | 703.3 | 682.6 | 669.3 | 656.0 | 638.3 | 611.7 | 585.1 | 582.1 |
| 22.5° | 738.7 | 743.2 | 741.7 | 709.2 | 691.5 | 681.1 | 669.3 | 653.1 | 627.9 | 596.9 | 594.0 |
| 25° | 741.7 | 744.7 | 747.6 | 715.1 | 700.3 | 695.9 | 685.6 | 670.8 | 647.1 | 614.6 | 611.7 |
| 27.5° | 746.1 | 749.1 | 752.0 | 722.5 | 716.6 | 712.2 | 709.2 | 697.4 | 669.3 | 635.3 | 630.9 |
| 30° | 753.5 | 758.0 | 760.9 | 735.8 | 735.8 | 740.2 | 740.2 | 724.0 | 692.9 | 657.5 | 654.5 |
| 32.5° | 762.4 | 763.9 | 769.8 | 749.1 | 756.5 | 766.8 | 763.9 | 747.6 | 715.1 | 682.6 | 678.2 |
| 35° | 786.0 | 786.0 | 796.4 | 769.8 | 778.6 | 787.5 | 790.5 | 778.6 | 749.1 | 716.6 | 715.1 |
| 37.5° | 843.7 | 843.7 | 852.5 | 809.7 | 808.2 | 817.1 | 827.4 | 827.4 | 797.8 | 768.3 | 765.3 |
| 40° | 973.7 | 973.7 | 973.7 | 874.7 | 858.4 | 868.8 | 885.0 | 893.9 | 868.8 | 848.1 | 848.1 |
| 42.5° | 1190.9 | 1192.3 | 1170.2 | 994.4 | 924.9 | 942.6 | 960.4 | 979.6 | 966.3 | 951.5 | 948.6 |
| 45° | 1415.4 | 1408.1 | 1405.1 | 1170.2 | 1043.1 | 1034.2 | 1056.4 | 1088.9 | 1093.3 | 1084.5 | 1090.4 |
| 47.5° | 1569.1 | 1576.5 | 1580.9 | 1388.8 | 1208.6 | 1148.0 | 1168.7 | 1214.5 | 1241.1 | 1239.6 | 1248.5 |
| 50° | 1718.3 | 1722.8 | 1727.2 | 1629.7 | 1427.3 | 1291.3 | 1304.6 | 1366.7 | 1403.6 | 1415.4 | 1421.4 |
| 52.5° | 1848.4 | 1836.5 | 1855.7 | 1842.4 | 1659.2 | 1455.3 | 1455.3 | 1526.3 | 1592.7 | 1597.2 | 1595.7 |
| 55° | 1886.8 | 1894.2 | 1951.8 | 1991.7 | 1897.1 | 1656.3 | 1626.7 | 1702.1 | 1773.0 | 1809.9 | 1809.9 |
| 57.5° | 1972.5 | 1979.8 | 2049.3 | 2139.4 | 2070.0 | 1854.3 | 1809.9 | 1883.8 | 1960.6 | 2031.6 | 2041.9 |
| 60° | 2084.8 | 2086.2 | 2160.1 | 2297.5 | 2201.5 | 2033.0 | 1996.1 | 2080.3 | 2157.1 | 2278.3 | 2312.3 |
| 62.5° | 2145.3 | 2151.2 | 2253.2 | 2433.4 | 2367.0 | 2189.7 | 2180.8 | 2257.6 | 2356.6 | 2569.4 | 2600.4 |
| 65° | 2052.2 | 2090.7 | 2312.3 | 2514.7 | 2501.4 | 2335.9 | 2367.0 | 2429.0 | 2542.8 | 2854.5 | 2884.1 |
| 67.5° | 1776.0 | 1818.8 | 2214.8 | 2591.5 | 2618.1 | 2473.3 | 2505.8 | 2596.0 | 2721.6 | 3070.2 | 3028.9 |
| 70° | 1635.6 | 1671.1 | 1978.4 | 2634.4 | 2715.6 | 2627.0 | 2641.8 | 2726.0 | 2762.9 | 2890.0 | 2845.7 |
| 72.5° | 1239.6 | 1276.6 | 1674.0 | 2488.1 | 2799.9 | 2788.0 | 2751.1 | 2681.7 | 2463.0 | 2273.9 | 2166.0 |
| 75° | 548.2 | 591.0 | 1114.0 | 1944.4 | 2591.5 | 2879.6 | 2684.6 | 2296.0 | 1768.6 | 1291.3 | 1196.8 |
| 77.5° | 242.3 | 267.4 | 431.4 | 1080.1 | 1947.3 | 2492.5 | 2123.2 | 1530.7 | 888.0 | 480.2 | 446.2 |
| 80° | 78.3 | 81.3 | 135.9 | 378.2 | 995.8 | 1650.4 | 1300.2 | 735.8 | 273.3 | 112.3 | 104.9 |
| 82.5° | 31.0 | 34.0 | 65.0 | 159.6 | 412.2 | 656.0 | 638.3 | 265.9 | 79.8 | 29.5 | 29.5 |
| 85° | 8.9 | 10.3 | 32.5 | 84.2 | 146.3 | 184.7 | 226.1 | 88.6 | 42.8 | 8.9 | 8.9 |
| 87.5° | 3.0 | 3.0 | 11.8 | 26.6 | 28.1 | 19.2 | 42.8 | 34.0 | 26.6 | 3.0 | 3.0 |
| 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° | 545.2 | 545.2 | 545.2 | 545.2 | 545.2 | 545.2 | 545.2 | 545.2 | 545.2 | 545.2 | 545.2 |
| 2.5° | 542.2 | 539.3 | 531.9 | 526.0 | 523.0 | 518.6 | 512.7 | 509.7 | 509.7 | 508.3 | 503.8 |
| 5° | 531.9 | 527.5 | 514.2 | 505.3 | 497.9 | 481.7 | 469.8 | 455.1 | 440.3 | 435.9 | 440.3 |
| 7.5° | 527.5 | 518.6 | 500.9 | 483.1 | 452.1 | 409.3 | 381.2 | 350.2 | 339.8 | 326.5 | 328.0 |
| 10° | 528.9 | 518.6 | 493.5 | 453.6 | 393.0 | 329.5 | 285.2 | 243.8 | 223.1 | 212.8 | 214.2 |
| 12.5° | 533.4 | 521.6 | 486.1 | 413.7 | 326.5 | 249.7 | 181.7 | 149.2 | 143.3 | 143.3 | 143.3 |
| 15° | 542.2 | 524.5 | 474.3 | 366.4 | 255.6 | 165.5 | 128.5 | 125.6 | 130.0 | 134.5 | 135.9 |
| 17.5° | 551.1 | 533.4 | 456.5 | 317.7 | 186.2 | 124.1 | 119.7 | 119.7 | 124.1 | 128.5 | 130.0 |
| 20° | 561.4 | 542.2 | 431.4 | 265.9 | 133.0 | 116.7 | 115.2 | 113.8 | 116.7 | 121.2 | 122.6 |
| 22.5° | 577.7 | 551.1 | 401.9 | 205.4 | 115.2 | 112.3 | 109.3 | 107.9 | 109.3 | 113.8 | 115.2 |
| 25° | 592.5 | 562.9 | 370.9 | 152.2 | 107.9 | 104.9 | 103.4 | 101.9 | 101.9 | 104.9 | 106.4 |
| 27.5° | 610.2 | 576.2 | 336.9 | 113.8 | 99.0 | 97.5 | 96.0 | 94.6 | 93.1 | 96.0 | 97.5 |
| 30° | 632.4 | 588.0 | 299.9 | 96.0 | 90.1 | 88.6 | 87.2 | 85.7 | 84.2 | 85.7 | 87.2 |
| 32.5° | 660.4 | 604.3 | 257.1 | 87.2 | 82.7 | 78.3 | 76.8 | 76.8 | 75.4 | 75.4 | 76.8 |
| 35° | 697.4 | 622.0 | 211.3 | 81.3 | 75.4 | 70.9 | 66.5 | 65.0 | 65.0 | 65.0 | 66.5 |
| 37.5° | 752.0 | 654.5 | 167.0 | 75.4 | 69.4 | 62.1 | 57.6 | 53.2 | 53.2 | 53.2 | 53.2 |
| 40° | 827.4 | 690.0 | 130.0 | 70.9 | 65.0 | 54.7 | 48.8 | 42.8 | 39.9 | 38.4 | 39.9 |
| 42.5° | 944.1 | 743.2 | 100.5 | 65.0 | 62.1 | 48.8 | 39.9 | 32.5 | 26.6 | 25.1 | 26.6 |
| 45° | 1072.7 | 800.8 | 79.8 | 60.6 | 56.1 | 41.4 | 31.0 | 22.2 | 16.3 | 14.8 | 16.3 |
| 47.5° | 1235.2 | 873.2 | 68.0 | 54.7 | 48.8 | 34.0 | 22.2 | 11.8 | 7.4 | 8.9 | 8.9 |
| 50° | 1391.8 | 944.1 | 62.1 | 50.2 | 42.8 | 28.1 | 13.3 | 5.9 | 3.0 | 4.4 | 4.4 |
| 52.5° | 1564.7 | 1019.5 | 57.6 | 44.3 | 36.9 | 20.7 | 7.4 | 1.5 | 0.0 | 1.5 | 1.5 |
| 55° | 1739.0 | 1087.4 | 53.2 | 39.9 | 29.5 | 14.8 | 3.0 | 0.0 | 0.0 | 0.0 | 1.5 |
| 57.5° | 1928.1 | 1145.1 | 48.8 | 34.0 | 22.2 | 8.9 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 2086.2 | 1189.4 | 44.3 | 29.5 | 14.8 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 2231.0 | 1229.3 | 34.0 | 22.2 | 8.9 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 2327.1 | 1238.1 | 23.6 | 14.8 | 5.9 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 2284.2 | 1161.3 | 14.8 | 10.3 | 3.0 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 2007.9 | 975.1 | 10.3 | 5.9 | 1.5 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1405.1 | 629.4 | 8.9 | 4.4 | 1.5 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 741.7 | 227.5 | 5.9 | 3.0 | 1.5 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 263.0 | 50.2 | 3.0 | 1.5 | 0.0 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 57.6 | 10.3 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 16.3 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.5 | 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)