

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: P595651

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

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595651
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: ISW-PA1C-760-U-T2U-HSS
Description: IMPACT ELITE LED WEDGE 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: 4719 lumens
Efficiency: N/A
Efficacy: 97.7 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): 48.3
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

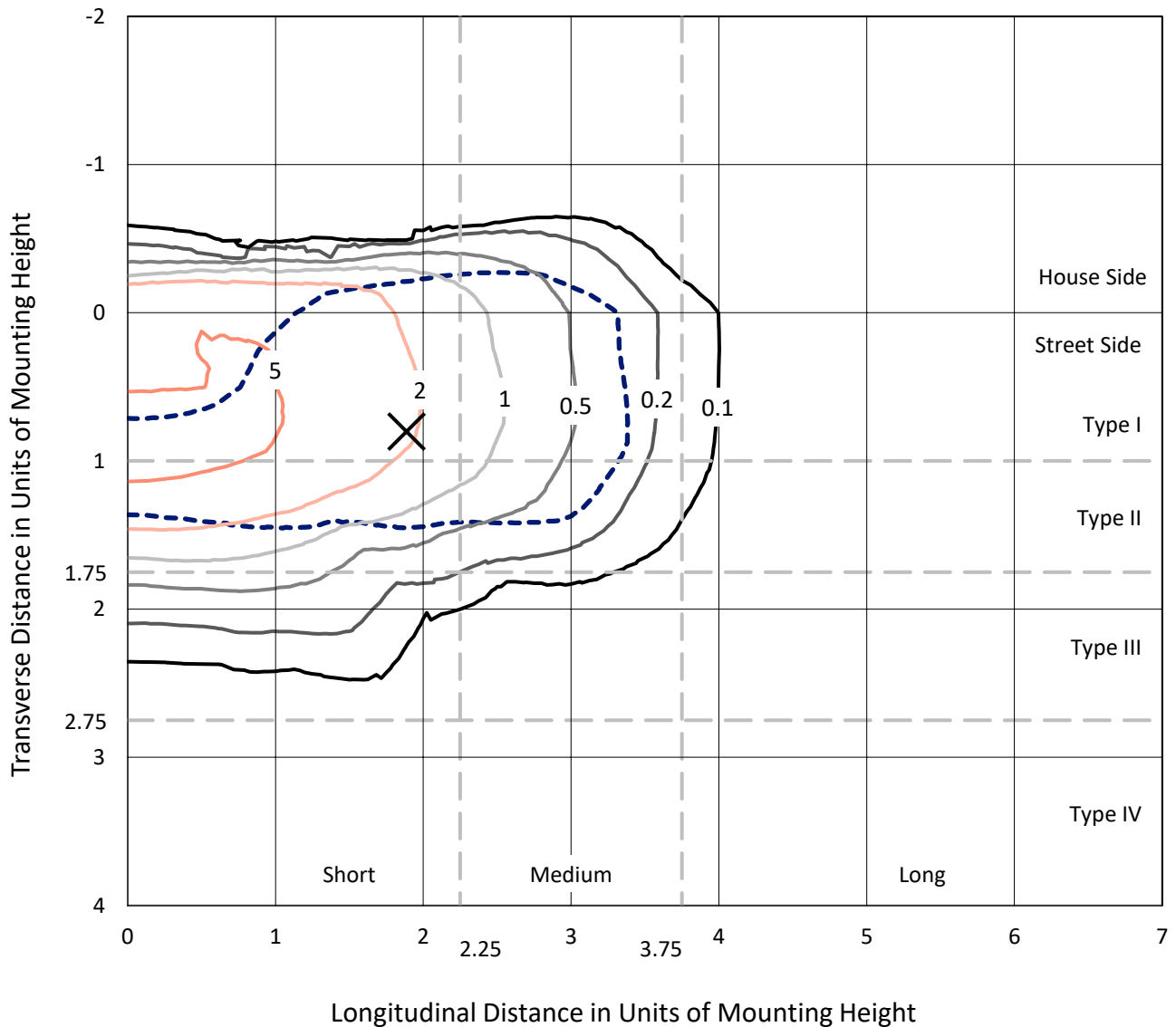




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Iso-Footcandle Lines of Horizontal Illumination

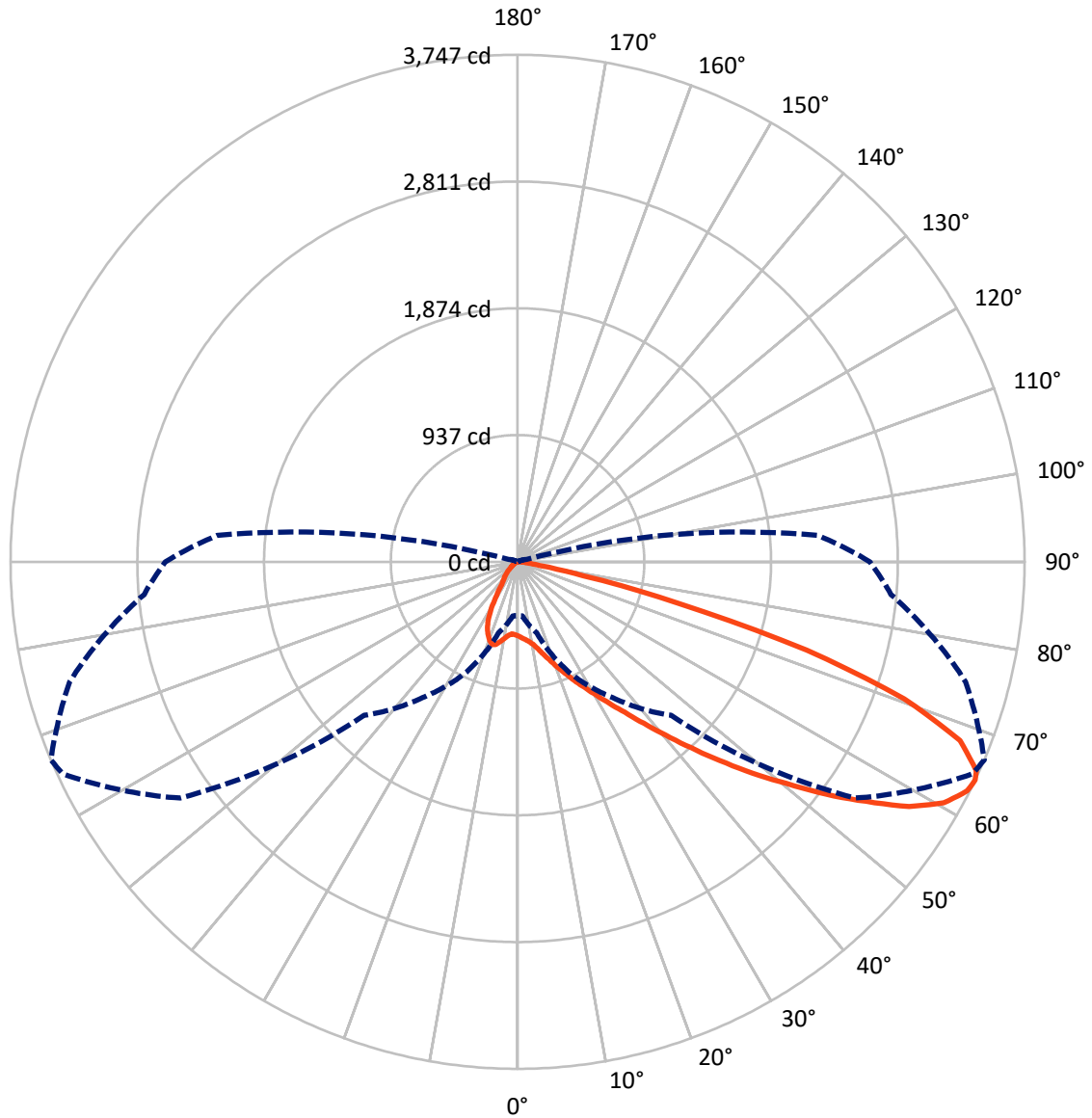
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.3 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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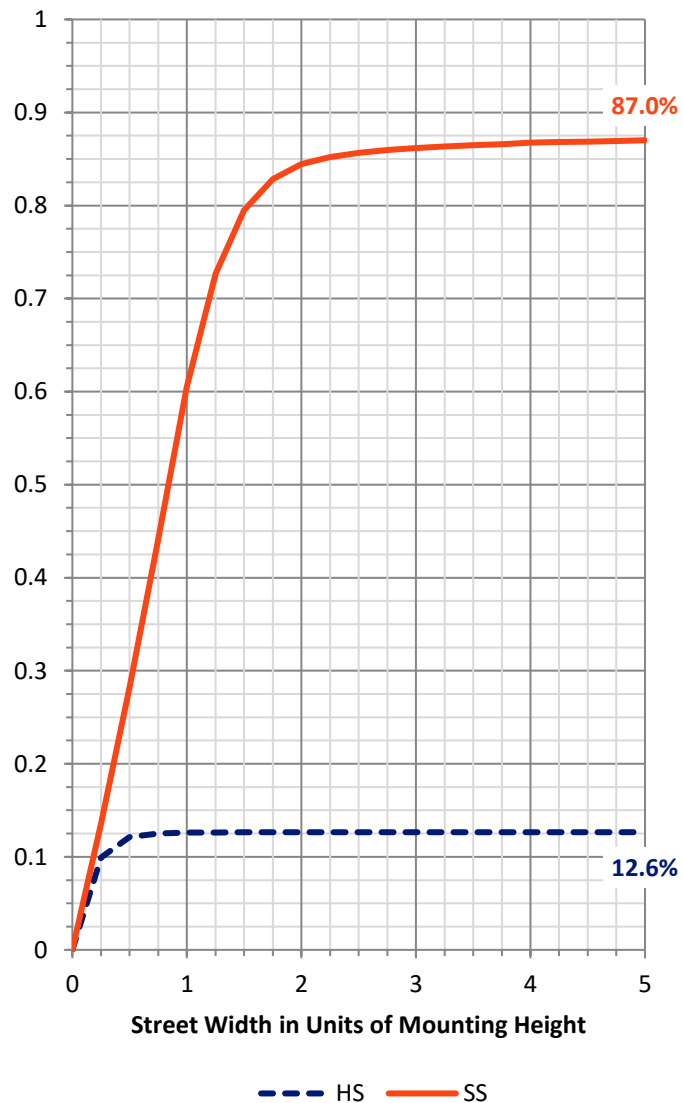
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 603.6 | 0.0 | 603.6 |
| | % Fixture | 12.8 | 0.0 | 12.8 |
| Street Side | Lumens | 4115.3 | 0.0 | 4115.3 |
| | % Fixture | 87.2 | 0.0 | 87.2 |
| Total | Lumens | 4719.0 | 0.0 | 4719.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 52.0 | 1.1 |
| 10°-20° | 153.5 | 3.3 |
| 20°-30° | 278.5 | 5.9 |
| 30°-40° | 533.6 | 11.3 |
| 40°-50° | 983.5 | 20.8 |
| 50°-60° | 1270.2 | 26.9 |
| 60°-70° | 1040.5 | 22.0 |
| 70°-80° | 382.5 | 8.1 |
| 80°-90° | 24.7 | 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° | 4719.0 | 100.0 |
| 0°-180° | 4719.0 | 100.0 |

Coefficient of Utilization

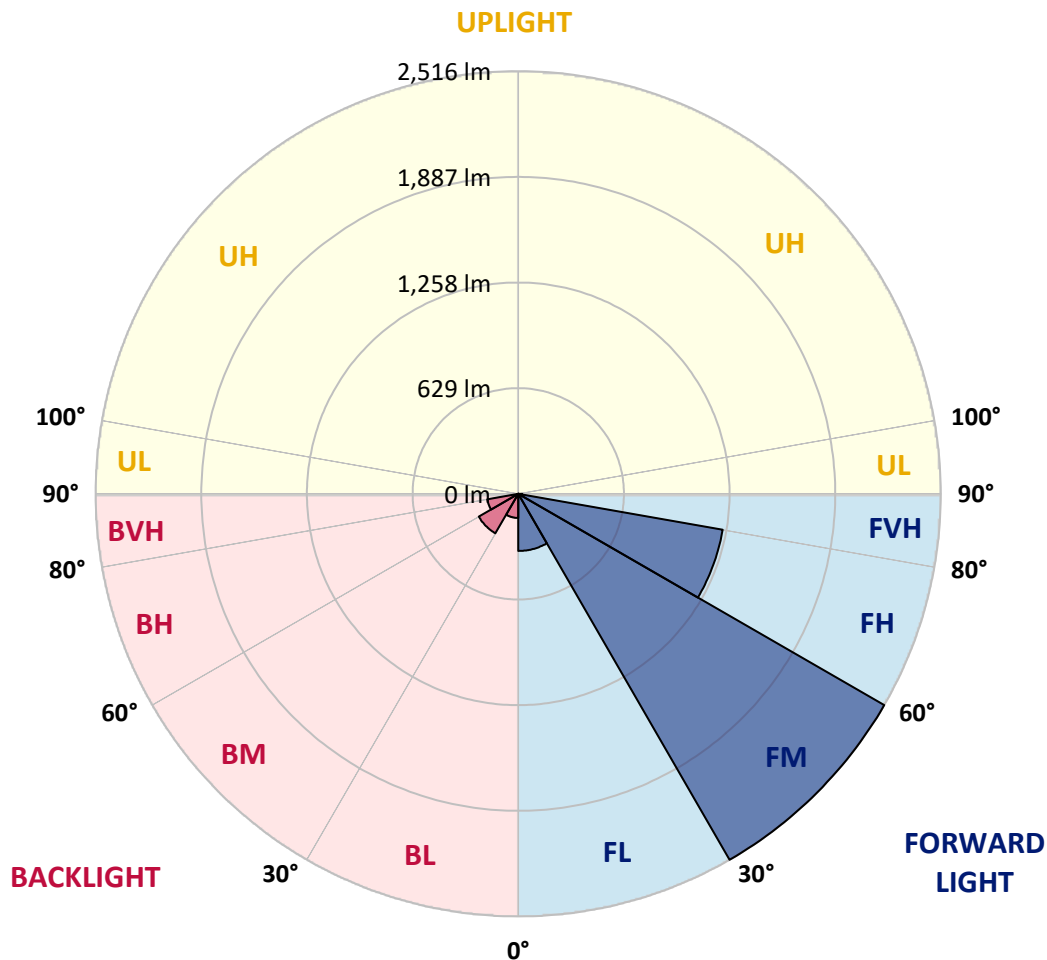


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 340.2 | 7.2 | | | |
| FM (30°-60°) | 2515.9 | 53.3 | | | |
| FH (60°-80°) | 1235.6 | 26.2 | | | G1/1800 |
| FVH (80°-90°) | 23.6 | 0.5 | | | G1/100 |
| BL (0°-30°) | 143.9 | 3.0 | B1/500 | | |
| BM (30°-60°) | 271.4 | 5.8 | B1/1000 | | |
| BH (60°-80°) | 187.3 | 4.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.1 | 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° | 548.3 | 548.3 | 548.3 | 548.3 | 548.3 | 548.3 | 548.3 | 548.3 | 548.3 | 548.3 | 548.3 |
| 2.5° | 567.8 | 567.8 | 571.0 | 569.4 | 569.4 | 566.2 | 561.3 | 562.9 | 561.3 | 559.7 | 554.8 |
| 5° | 558.1 | 559.7 | 561.3 | 564.5 | 571.0 | 574.3 | 574.3 | 575.9 | 575.9 | 574.3 | 567.8 |
| 7.5° | 553.2 | 556.4 | 559.7 | 562.9 | 571.0 | 575.9 | 584.0 | 593.7 | 593.7 | 595.4 | 588.9 |
| 10° | 571.0 | 574.3 | 579.1 | 584.0 | 592.1 | 600.2 | 606.7 | 618.1 | 618.1 | 621.3 | 619.7 |
| 12.5° | 608.3 | 608.3 | 610.0 | 613.2 | 624.6 | 634.3 | 645.7 | 655.4 | 657.0 | 658.6 | 653.8 |
| 15° | 653.8 | 653.8 | 655.4 | 655.4 | 661.9 | 676.5 | 697.6 | 707.3 | 705.7 | 704.1 | 694.3 |
| 17.5° | 705.7 | 705.7 | 705.7 | 707.3 | 710.6 | 718.7 | 743.0 | 762.5 | 760.8 | 759.2 | 739.8 |
| 20° | 754.4 | 757.6 | 760.8 | 762.5 | 765.7 | 772.2 | 798.2 | 820.9 | 825.7 | 819.2 | 785.2 |
| 22.5° | 809.5 | 811.1 | 812.8 | 817.6 | 825.7 | 829.0 | 854.9 | 889.0 | 893.9 | 885.8 | 840.3 |
| 25° | 864.7 | 867.9 | 872.8 | 879.3 | 887.4 | 903.6 | 921.4 | 966.9 | 971.7 | 962.0 | 900.4 |
| 27.5° | 986.3 | 984.7 | 970.1 | 958.8 | 960.4 | 971.7 | 996.1 | 1044.7 | 1049.6 | 1039.9 | 960.4 |
| 30° | 1194.0 | 1174.5 | 1146.9 | 1096.6 | 1048.0 | 1052.8 | 1086.9 | 1134.0 | 1142.1 | 1129.1 | 1026.9 |
| 32.5° | 1489.2 | 1469.8 | 1401.6 | 1291.3 | 1184.3 | 1148.6 | 1192.4 | 1237.8 | 1247.5 | 1232.9 | 1104.8 |
| 35° | 1776.4 | 1771.5 | 1706.6 | 1573.6 | 1391.9 | 1292.9 | 1304.3 | 1362.7 | 1365.9 | 1348.1 | 1202.1 |
| 37.5° | 2131.7 | 2113.8 | 2024.6 | 1875.3 | 1661.2 | 1484.4 | 1451.9 | 1507.1 | 1515.2 | 1494.1 | 1320.5 |
| 40° | 2366.9 | 2360.4 | 2306.9 | 2201.4 | 1971.0 | 1748.8 | 1632.0 | 1685.5 | 1683.9 | 1653.1 | 1456.8 |
| 42.5° | 2503.1 | 2506.4 | 2503.1 | 2452.9 | 2321.5 | 2066.8 | 1870.5 | 1873.7 | 1878.6 | 1846.1 | 1614.2 |
| 45° | 2595.6 | 2595.6 | 2600.5 | 2641.0 | 2590.8 | 2446.4 | 2160.9 | 2087.9 | 2094.3 | 2044.0 | 1778.0 |
| 47.5° | 2594.0 | 2603.7 | 2629.7 | 2723.8 | 2791.9 | 2800.0 | 2524.2 | 2337.7 | 2334.4 | 2258.2 | 1946.7 |
| 50° | 2418.8 | 2412.3 | 2519.4 | 2730.3 | 2934.7 | 3092.0 | 2868.2 | 2602.1 | 2574.5 | 2480.4 | 2121.9 |
| 52.5° | 2024.6 | 2045.7 | 2224.1 | 2534.0 | 2968.7 | 3289.9 | 3165.0 | 2890.9 | 2855.2 | 2701.1 | 2276.0 |
| 55° | 1680.7 | 1703.4 | 1877.0 | 2180.3 | 2783.8 | 3359.7 | 3364.6 | 3197.5 | 3126.1 | 2892.5 | 2435.0 |
| 57.5° | 1262.1 | 1305.9 | 1562.2 | 1847.8 | 2378.2 | 3186.1 | 3436.0 | 3491.1 | 3413.2 | 3077.4 | 2564.8 |
| 60° | 806.3 | 832.2 | 1119.4 | 1471.4 | 1927.2 | 2731.9 | 3421.4 | 3661.4 | 3619.3 | 3246.1 | 2673.5 |
| 62.5° | 527.2 | 541.8 | 739.8 | 1108.0 | 1468.1 | 2058.7 | 3247.8 | 3729.6 | 3729.6 | 3359.7 | 2754.6 |
| 64° | 397.5 | 400.7 | 541.8 | 900.4 | 1224.8 | 1604.4 | 3043.4 | 3708.5 | 3747.4 | 3427.8 | 2770.8 |
| 65° | 314.7 | 316.3 | 423.4 | 747.9 | 1099.9 | 1315.7 | 2864.9 | 3663.1 | 3726.3 | 3453.8 | 2780.6 |
| 67.5° | 220.6 | 225.5 | 274.2 | 431.5 | 788.4 | 759.2 | 2123.5 | 3448.9 | 3526.8 | 3461.9 | 2767.6 |
| 70° | 191.4 | 197.9 | 230.4 | 282.3 | 562.9 | 441.3 | 1129.1 | 2939.5 | 3032.0 | 3225.1 | 2576.2 |
| 72.5° | 146.0 | 154.1 | 193.0 | 238.5 | 395.8 | 298.5 | 436.4 | 2087.9 | 2233.9 | 2493.4 | 2126.8 |
| 75° | 105.4 | 108.7 | 142.8 | 194.7 | 277.4 | 230.4 | 188.2 | 1077.2 | 1224.8 | 1471.4 | 1322.1 |
| 77.5° | 66.5 | 71.4 | 97.3 | 146.0 | 248.2 | 175.2 | 111.9 | 392.6 | 494.8 | 640.8 | 577.5 |
| 80° | 38.9 | 40.6 | 58.4 | 100.6 | 167.1 | 129.8 | 71.4 | 139.5 | 168.7 | 238.5 | 154.1 |
| 82.5° | 22.7 | 24.3 | 37.3 | 68.1 | 108.7 | 100.6 | 45.4 | 71.4 | 79.5 | 90.8 | 32.4 |
| 85° | 8.1 | 8.1 | 26.0 | 40.6 | 58.4 | 50.3 | 26.0 | 37.3 | 40.6 | 50.3 | 9.7 |
| 87.5° | 1.6 | 1.6 | 13.0 | 21.1 | 21.1 | 8.1 | 13.0 | 16.2 | 19.5 | 27.6 | 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° | 548.3 | 548.3 | 548.3 | 548.3 | 548.3 | 548.3 | 548.3 | 548.3 | 548.3 | 548.3 | 548.3 |
| 2.5° | 553.2 | 548.3 | 543.5 | 537.0 | 532.1 | 522.4 | 517.5 | 511.0 | 509.4 | 506.1 | 504.5 |
| 5° | 566.2 | 558.1 | 546.7 | 530.5 | 520.7 | 506.1 | 496.4 | 486.7 | 485.1 | 481.8 | 480.2 |
| 7.5° | 584.0 | 575.9 | 561.3 | 543.5 | 527.2 | 512.6 | 501.3 | 486.7 | 472.1 | 460.7 | 460.7 |
| 10° | 613.2 | 603.5 | 584.0 | 567.8 | 548.3 | 517.5 | 464.0 | 415.3 | 384.5 | 365.0 | 358.5 |
| 12.5° | 648.9 | 635.9 | 614.8 | 595.4 | 558.1 | 460.7 | 378.0 | 314.7 | 262.8 | 238.5 | 233.6 |
| 15° | 686.2 | 674.9 | 653.8 | 624.6 | 512.6 | 384.5 | 275.8 | 178.4 | 128.2 | 105.4 | 108.7 |
| 17.5° | 726.8 | 710.6 | 686.2 | 627.8 | 451.0 | 287.1 | 147.6 | 90.8 | 77.9 | 74.6 | 74.6 |
| 20° | 769.0 | 747.9 | 723.5 | 592.1 | 371.5 | 165.5 | 84.4 | 68.1 | 63.3 | 58.4 | 60.0 |
| 22.5° | 814.4 | 788.4 | 751.1 | 538.6 | 266.1 | 89.2 | 64.9 | 55.2 | 48.7 | 47.0 | 47.0 |
| 25° | 863.0 | 825.7 | 778.7 | 476.9 | 154.1 | 68.1 | 53.5 | 43.8 | 38.9 | 37.3 | 35.7 |
| 27.5° | 915.0 | 867.9 | 785.2 | 395.8 | 87.6 | 56.8 | 42.2 | 34.1 | 29.2 | 27.6 | 27.6 |
| 30° | 962.0 | 910.1 | 770.6 | 293.6 | 66.5 | 47.0 | 34.1 | 26.0 | 22.7 | 22.7 | 22.7 |
| 32.5° | 1025.3 | 957.1 | 725.2 | 183.3 | 53.5 | 37.3 | 26.0 | 21.1 | 17.8 | 17.8 | 17.8 |
| 35° | 1108.0 | 1026.9 | 679.7 | 97.3 | 43.8 | 30.8 | 21.1 | 16.2 | 14.6 | 14.6 | 14.6 |
| 37.5° | 1221.6 | 1119.4 | 639.2 | 61.6 | 35.7 | 24.3 | 16.2 | 13.0 | 11.4 | 11.4 | 11.4 |
| 40° | 1338.4 | 1229.7 | 582.4 | 47.0 | 29.2 | 19.5 | 13.0 | 9.7 | 8.1 | 8.1 | 9.7 |
| 42.5° | 1484.4 | 1357.8 | 517.5 | 40.6 | 24.3 | 16.2 | 9.7 | 6.5 | 4.9 | 6.5 | 6.5 |
| 45° | 1632.0 | 1492.5 | 426.7 | 34.1 | 21.1 | 13.0 | 6.5 | 3.2 | 3.2 | 4.9 | 4.9 |
| 47.5° | 1784.5 | 1635.2 | 330.9 | 29.2 | 17.8 | 9.7 | 4.9 | 1.6 | 1.6 | 3.2 | 3.2 |
| 50° | 1941.8 | 1776.4 | 246.6 | 26.0 | 14.6 | 8.1 | 3.2 | 1.6 | 0.0 | 1.6 | 1.6 |
| 52.5° | 2099.2 | 1912.6 | 191.4 | 22.7 | 13.0 | 6.5 | 1.6 | 0.0 | 0.0 | 0.0 | 1.6 |
| 55° | 2245.2 | 2035.9 | 152.5 | 19.5 | 11.4 | 4.9 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 2368.5 | 2126.8 | 121.7 | 17.8 | 9.7 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 2485.3 | 2198.2 | 94.1 | 14.6 | 8.1 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 2568.0 | 2225.7 | 76.2 | 13.0 | 6.5 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 64° | 2603.7 | 2229.0 | 66.5 | 11.4 | 6.5 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 2624.8 | 2219.3 | 61.6 | 11.4 | 6.5 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 2629.7 | 2165.7 | 47.0 | 9.7 | 4.9 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 2486.9 | 1979.2 | 34.1 | 6.5 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2078.1 | 1511.9 | 22.7 | 4.9 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1297.8 | 653.8 | 13.0 | 4.9 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 537.0 | 197.9 | 8.1 | 3.2 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 123.3 | 47.0 | 3.2 | 1.6 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 29.2 | 8.1 | 1.6 | 1.6 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 6.5 | 1.6 | 1.6 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.2 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 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)