

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: LUMARK

Report Number: P287042

Luminaire Tested: **PRV-C15-D-UNV-T4-BZ-7050-HSS**

Issue Date: 3/4/2019

Test Information

Test Method: LM-79-08
Report Number: P287042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-9)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 3/4/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-C15-D-UNV-T4-BZ-7050-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6554 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

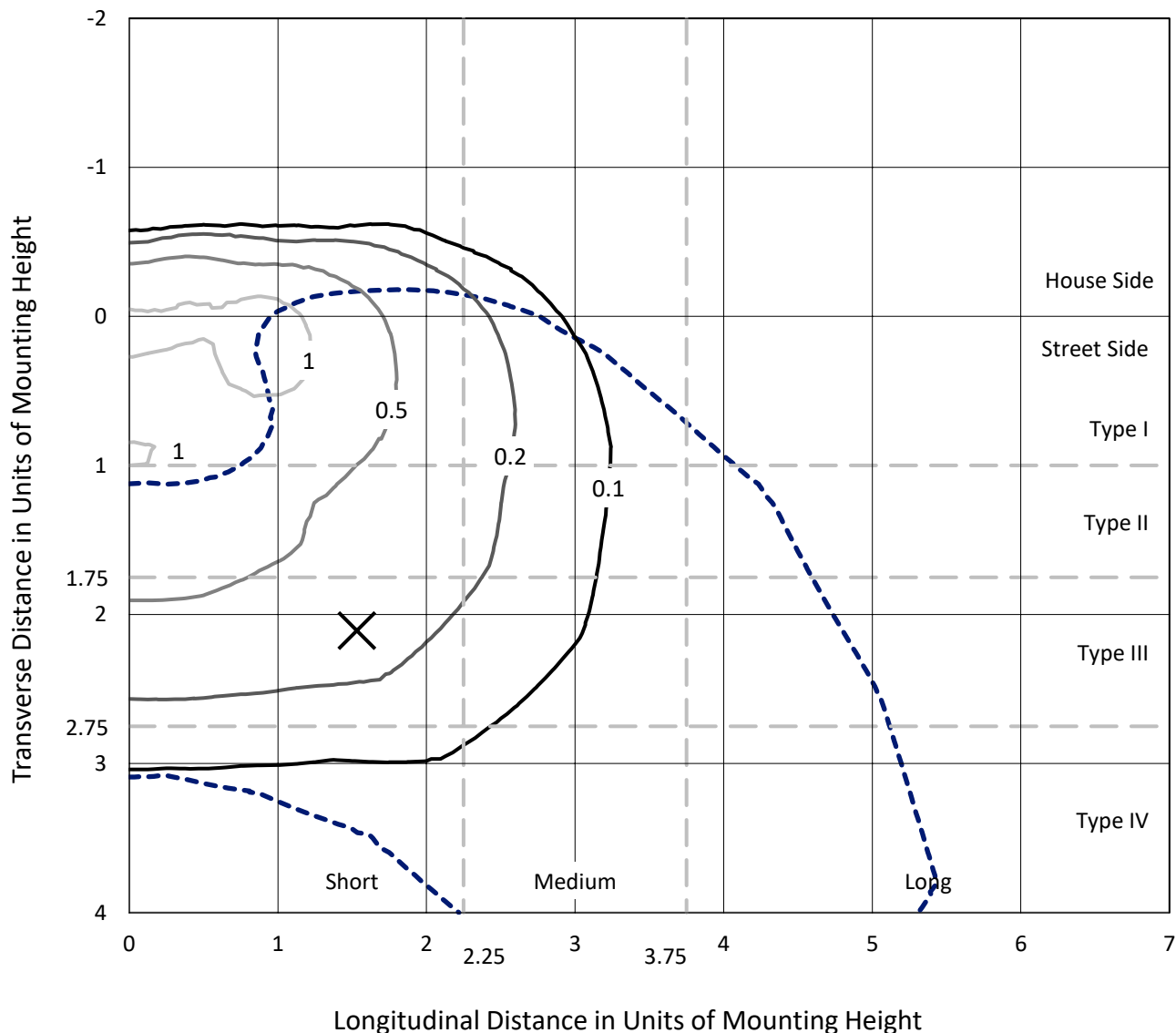
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

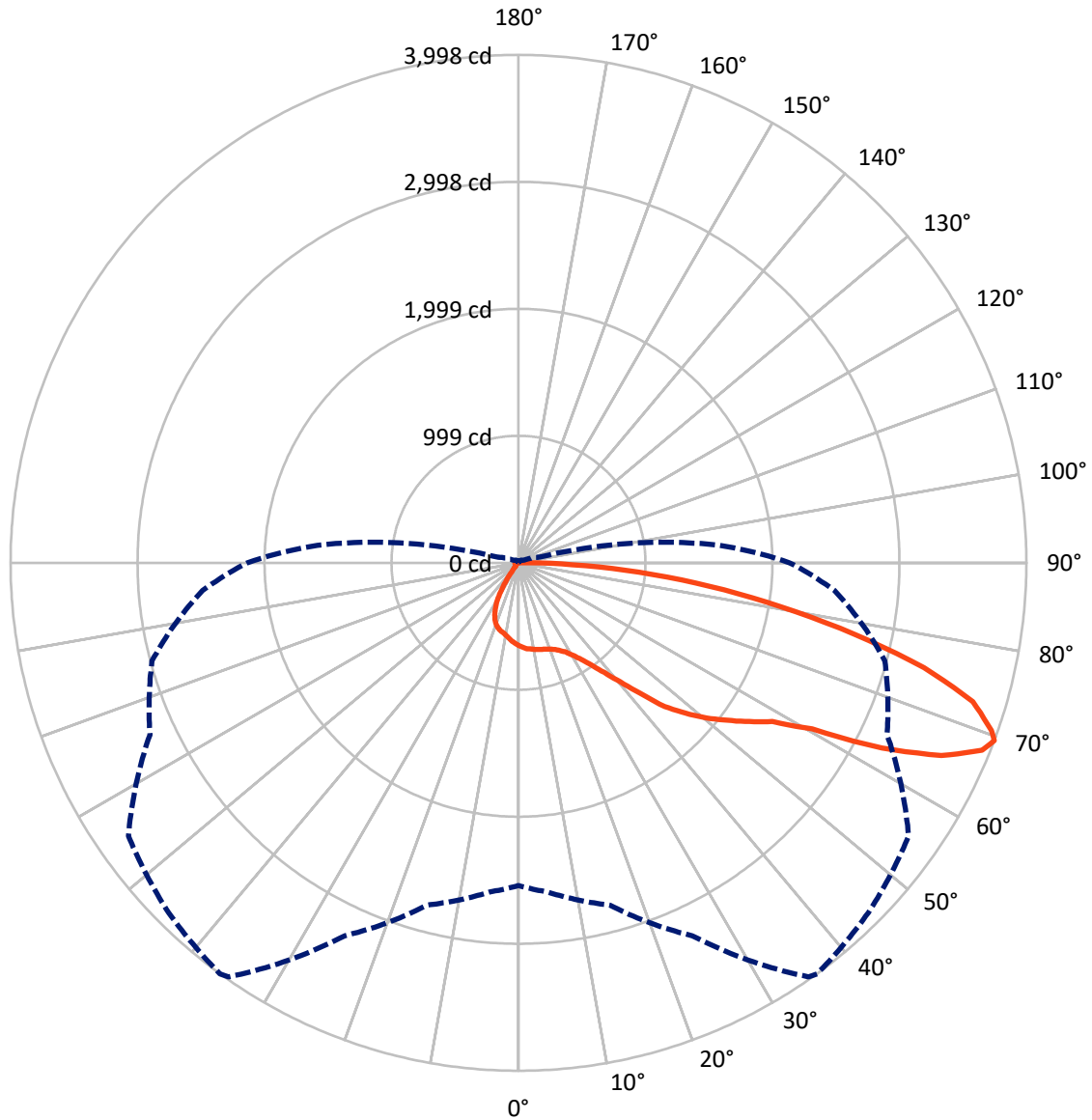
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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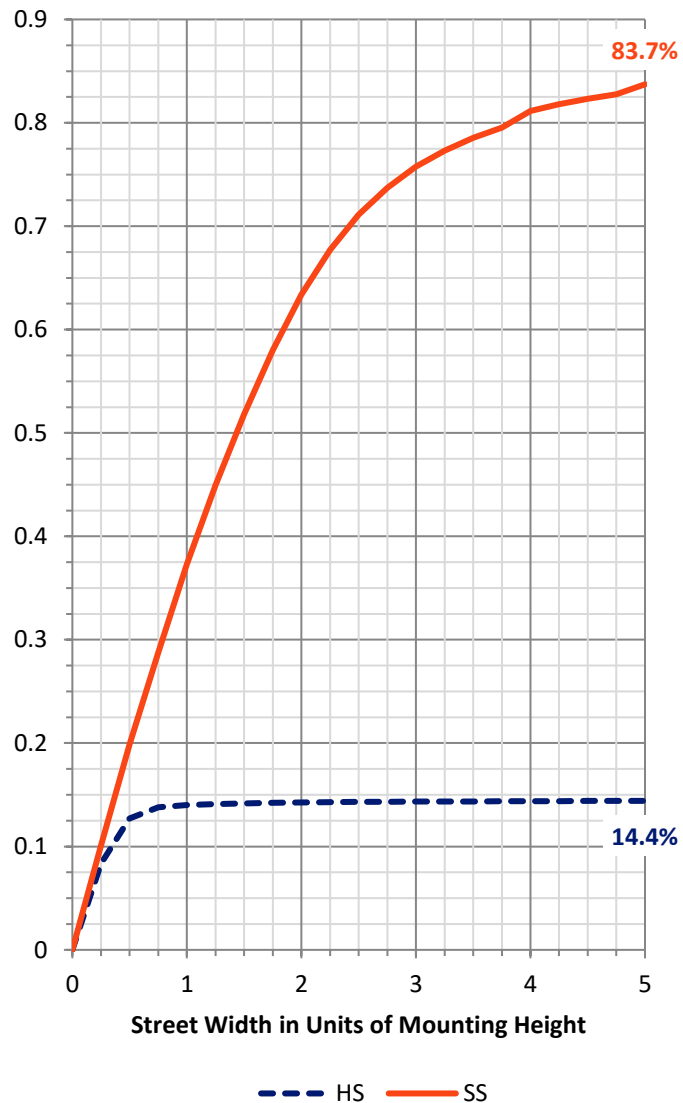
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 955.6 | 0.0 | 955.6 |
| | % Fixture | 14.6 | 0.0 | 14.6 |
| Street Side | Lumens | 5598.4 | 0.0 | 5598.4 |
| | % Fixture | 85.4 | 0.0 | 85.4 |
| Total | Lumens | 6554.0 | 0.0 | 6554.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.0 | 0.9 |
| 10°-20° | 185.1 | 2.8 |
| 20°-30° | 310.1 | 4.7 |
| 30°-40° | 501.5 | 7.7 |
| 40°-50° | 884.5 | 13.5 |
| 50°-60° | 1289.3 | 19.7 |
| 60°-70° | 1702.8 | 26.0 |
| 70°-80° | 1309.3 | 20.0 |
| 80°-90° | 309.5 | 4.7 |
| 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° | 6554.0 | 100.0 |
| 0°-180° | 6554.0 | 100.0 |

Coefficient of Utilization

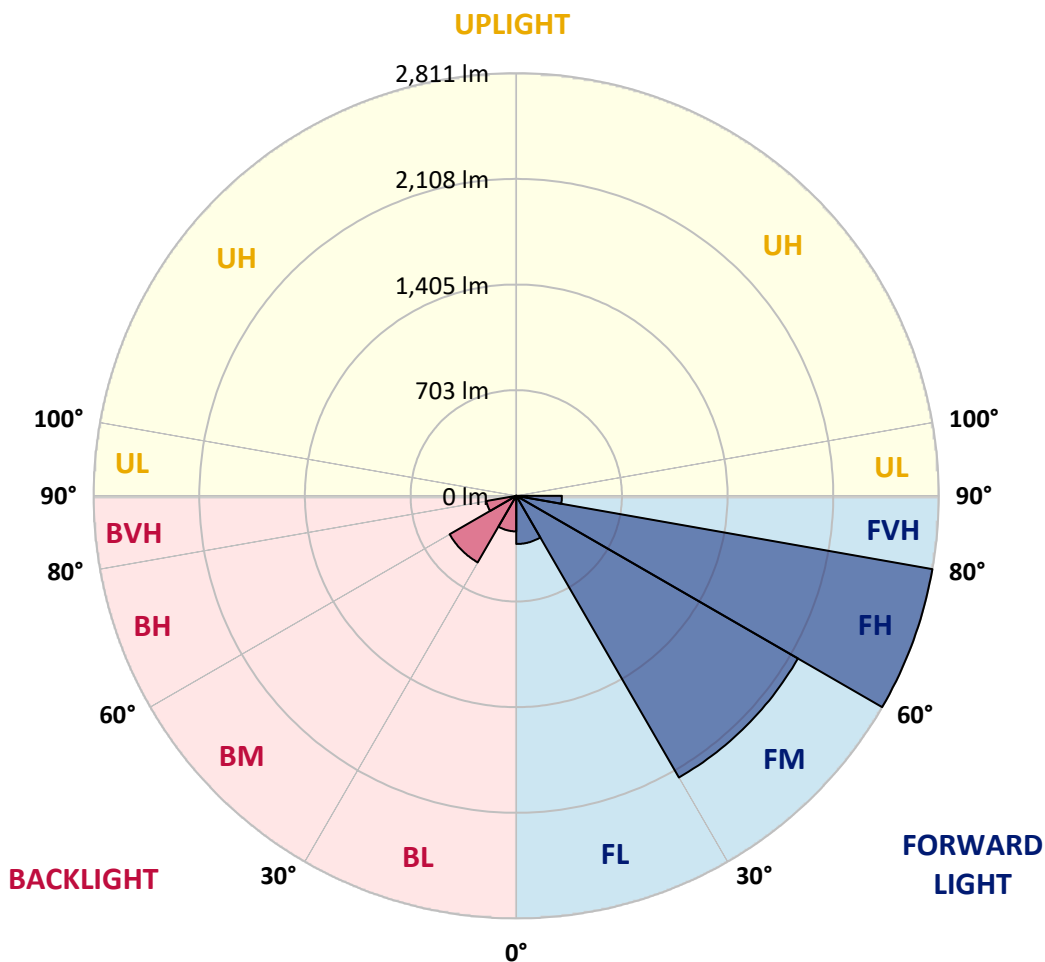


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 320.4 | 4.9 | | | |
| FM (30°-60°) | 2163.5 | 33.0 | | | |
| FH (60°-80°) | 2810.7 | 42.9 | | | G2/5000 |
| FVH (80°-90°) | 303.8 | 4.6 | | | G3/500 |
| BL (0°-30°) | 236.7 | 3.6 | B1/500 | | |
| BM (30°-60°) | 511.7 | 7.8 | B1/1000 | | |
| BH (60°-80°) | 201.5 | 3.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.8 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 653.0 | 653.0 | 653.0 | 653.0 | 653.0 | 653.0 | 653.0 | 653.0 | 653.0 | 653.0 | 653.0 |
| 2.5° | 677.1 | 678.2 | 675.0 | 667.5 | 665.8 | 666.5 | 667.2 | 662.9 | 658.3 | 656.2 | 651.3 |
| 5° | 689.1 | 689.5 | 688.1 | 681.3 | 679.6 | 679.6 | 678.9 | 673.9 | 669.3 | 666.5 | 659.4 |
| 7.5° | 692.3 | 692.0 | 692.7 | 685.6 | 687.4 | 684.2 | 686.3 | 681.3 | 677.1 | 673.2 | 666.8 |
| 10° | 697.3 | 698.0 | 697.3 | 691.6 | 692.3 | 693.0 | 692.7 | 689.1 | 688.8 | 688.4 | 677.4 |
| 12.5° | 694.8 | 694.4 | 696.6 | 693.0 | 698.0 | 698.7 | 706.5 | 708.2 | 710.0 | 710.0 | 698.7 |
| 15° | 693.0 | 689.1 | 698.0 | 695.1 | 705.4 | 706.5 | 718.1 | 728.8 | 730.9 | 731.6 | 727.3 |
| 17.5° | 695.5 | 694.8 | 707.2 | 701.9 | 716.4 | 713.9 | 725.2 | 744.0 | 753.9 | 758.8 | 761.3 |
| 20° | 706.1 | 708.9 | 719.2 | 713.9 | 725.9 | 725.9 | 738.3 | 758.5 | 777.3 | 789.6 | 792.1 |
| 22.5° | 722.4 | 723.5 | 735.5 | 730.2 | 739.7 | 740.8 | 751.4 | 775.1 | 800.6 | 821.5 | 832.1 |
| 25° | 739.7 | 739.0 | 748.9 | 749.3 | 762.0 | 765.2 | 774.4 | 793.5 | 827.2 | 854.4 | 883.4 |
| 27.5° | 765.2 | 763.8 | 775.5 | 771.9 | 795.7 | 795.3 | 805.9 | 828.6 | 866.4 | 902.2 | 946.4 |
| 30° | 806.6 | 803.1 | 810.2 | 815.8 | 842.7 | 843.8 | 853.4 | 875.6 | 913.9 | 965.9 | 1019.7 |
| 32.5° | 873.5 | 876.4 | 875.6 | 868.6 | 902.5 | 904.7 | 928.0 | 964.1 | 1003.1 | 1065.7 | 1128.7 |
| 35° | 1014.4 | 1014.0 | 994.9 | 976.9 | 980.1 | 986.4 | 1016.9 | 1082.0 | 1161.6 | 1309.6 | 1365.2 |
| 37.5° | 1189.6 | 1198.1 | 1164.5 | 1112.4 | 1095.4 | 1094.4 | 1120.9 | 1217.6 | 1347.8 | 1633.4 | 1655.7 |
| 40° | 1421.4 | 1405.5 | 1364.8 | 1284.8 | 1242.0 | 1229.9 | 1238.8 | 1352.4 | 1552.4 | 1909.5 | 1888.3 |
| 42.5° | 1578.9 | 1586.0 | 1541.4 | 1473.1 | 1409.4 | 1400.2 | 1379.3 | 1500.7 | 1774.0 | 2129.7 | 2070.2 |
| 45° | 1767.9 | 1782.1 | 1732.9 | 1684.4 | 1620.0 | 1614.3 | 1582.8 | 1653.6 | 1987.0 | 2292.8 | 2212.5 |
| 47.5° | 1932.5 | 1942.4 | 1863.9 | 1818.5 | 1772.2 | 1767.6 | 1737.8 | 1807.9 | 2172.1 | 2427.0 | 2328.9 |
| 50° | 2109.8 | 2118.0 | 2032.3 | 1967.9 | 1924.0 | 1919.8 | 1903.1 | 1981.0 | 2359.7 | 2553.7 | 2425.2 |
| 52.5° | 2336.0 | 2305.6 | 2201.5 | 2113.7 | 2064.9 | 2059.2 | 2067.4 | 2153.7 | 2537.4 | 2645.0 | 2502.4 |
| 55° | 2600.8 | 2517.9 | 2384.9 | 2275.1 | 2202.2 | 2206.1 | 2215.7 | 2329.3 | 2688.5 | 2733.5 | 2560.4 |
| 57.5° | 2760.4 | 2765.0 | 2665.2 | 2503.4 | 2365.0 | 2357.2 | 2350.2 | 2488.6 | 2811.4 | 2831.5 | 2616.7 |
| 60° | 2973.8 | 2988.3 | 2975.2 | 2875.4 | 2688.9 | 2655.6 | 2540.2 | 2666.2 | 2941.6 | 2910.8 | 2650.3 |
| 62.5° | 3135.9 | 3159.6 | 3236.1 | 3174.5 | 3196.1 | 3210.2 | 2892.8 | 2879.0 | 3061.2 | 2965.0 | 2657.4 |
| 65° | 3098.8 | 3121.4 | 3278.2 | 3399.2 | 3627.2 | 3657.3 | 3577.3 | 3149.7 | 3154.7 | 2989.0 | 2634.7 |
| 67.5° | 2817.4 | 2840.7 | 3031.9 | 3357.8 | 3901.8 | 3935.8 | 3850.5 | 3619.8 | 3201.0 | 2990.1 | 2577.0 |
| 69° | 2540.2 | 2600.4 | 2789.4 | 3238.6 | 3978.6 | 3997.8 | 3894.1 | 3747.9 | 3200.3 | 2985.8 | 2495.6 |
| 70° | 2374.6 | 2422.7 | 2637.2 | 3100.9 | 3938.7 | 3947.9 | 3867.9 | 3799.6 | 3188.3 | 2948.7 | 2419.2 |
| 72.5° | 1909.2 | 1898.5 | 2126.8 | 2628.7 | 3745.0 | 3739.4 | 3748.2 | 3730.2 | 3166.4 | 2812.8 | 2096.7 |
| 75° | 1383.9 | 1387.8 | 1599.1 | 2068.4 | 3256.3 | 3297.7 | 3474.6 | 3581.9 | 2952.9 | 2453.2 | 1542.8 |
| 77.5° | 983.6 | 991.7 | 1173.3 | 1583.5 | 2683.9 | 2703.4 | 3028.0 | 3141.9 | 2484.7 | 1930.0 | 841.0 |
| 80° | 658.3 | 665.4 | 835.3 | 1167.7 | 2050.0 | 2094.3 | 2448.2 | 2473.7 | 1880.5 | 1194.6 | 152.2 |
| 82.5° | 411.6 | 415.2 | 546.8 | 831.8 | 1495.8 | 1517.3 | 1681.2 | 1632.0 | 977.6 | 266.2 | 45.3 |
| 85° | 236.1 | 240.3 | 335.2 | 526.7 | 944.7 | 952.8 | 1062.2 | 807.3 | 234.3 | 35.7 | 24.8 |
| 87.5° | 67.6 | 72.6 | 138.7 | 227.2 | 426.1 | 423.0 | 396.4 | 264.4 | 37.9 | 16.3 | 11.7 |
| 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° | 653.0 | 653.0 | 653.0 | 653.0 | 653.0 | 653.0 | 653.0 | 653.0 | 653.0 | 653.0 | 653.0 |
| 2.5° | 647.4 | 652.7 | 646.3 | 641.7 | 636.4 | 637.1 | 637.1 | 631.1 | 631.1 | 639.6 | 640.6 |
| 5° | 655.5 | 659.4 | 648.4 | 639.6 | 628.2 | 625.8 | 618.7 | 611.6 | 609.1 | 616.6 | 617.6 |
| 7.5° | 662.9 | 660.8 | 647.7 | 633.6 | 618.7 | 607.0 | 598.2 | 586.5 | 581.2 | 589.7 | 591.1 |
| 10° | 670.4 | 664.0 | 650.5 | 633.6 | 609.8 | 592.9 | 579.8 | 558.9 | 553.2 | 557.5 | 559.6 |
| 12.5° | 690.9 | 682.4 | 666.8 | 637.4 | 610.5 | 587.5 | 562.1 | 535.9 | 522.4 | 527.4 | 530.2 |
| 15° | 721.3 | 708.6 | 692.3 | 656.2 | 619.0 | 585.8 | 551.1 | 509.7 | 485.3 | 482.4 | 483.1 |
| 17.5° | 757.4 | 744.0 | 722.4 | 678.5 | 631.1 | 585.8 | 534.5 | 482.4 | 442.1 | 430.4 | 431.8 |
| 20° | 793.9 | 779.0 | 761.7 | 704.3 | 642.4 | 576.9 | 513.9 | 446.0 | 388.3 | 361.7 | 361.7 |
| 22.5° | 835.7 | 825.0 | 796.0 | 724.9 | 646.3 | 563.1 | 482.4 | 396.8 | 326.0 | 287.0 | 285.6 |
| 25° | 889.8 | 880.3 | 826.8 | 741.2 | 643.1 | 545.8 | 441.7 | 338.7 | 250.9 | 211.3 | 209.2 |
| 27.5° | 950.3 | 931.6 | 856.9 | 753.2 | 632.1 | 517.8 | 387.6 | 265.1 | 174.8 | 137.3 | 135.6 |
| 30° | 1017.6 | 990.3 | 879.9 | 751.1 | 612.0 | 470.7 | 323.9 | 178.0 | 101.9 | 77.2 | 77.2 |
| 32.5° | 1114.2 | 1064.7 | 907.2 | 746.1 | 584.0 | 414.5 | 237.8 | 105.5 | 51.0 | 39.3 | 39.3 |
| 35° | 1302.9 | 1209.8 | 948.6 | 732.7 | 538.7 | 340.1 | 149.7 | 47.4 | 28.0 | 27.6 | 27.6 |
| 37.5° | 1555.9 | 1397.0 | 1015.1 | 712.8 | 476.4 | 247.4 | 74.7 | 26.2 | 26.2 | 26.9 | 26.5 |
| 40° | 1777.8 | 1598.8 | 1103.9 | 682.8 | 408.1 | 156.1 | 34.0 | 25.1 | 26.5 | 27.6 | 27.6 |
| 42.5° | 1942.8 | 1754.5 | 1189.9 | 638.9 | 326.0 | 79.6 | 28.3 | 24.4 | 25.5 | 25.8 | 26.2 |
| 45° | 2082.6 | 1885.4 | 1258.6 | 583.3 | 238.6 | 37.9 | 28.3 | 24.1 | 24.1 | 24.1 | 24.4 |
| 47.5° | 2189.8 | 1981.4 | 1305.7 | 517.8 | 148.3 | 31.9 | 29.7 | 23.7 | 22.3 | 21.6 | 21.9 |
| 50° | 2273.7 | 2048.3 | 1322.3 | 444.9 | 73.3 | 32.2 | 29.0 | 22.3 | 19.5 | 19.8 | 20.2 |
| 52.5° | 2332.8 | 2102.4 | 1304.6 | 353.9 | 37.9 | 34.0 | 29.4 | 21.6 | 17.3 | 18.4 | 18.4 |
| 55° | 2387.7 | 2115.9 | 1259.7 | 251.7 | 34.0 | 34.3 | 29.4 | 19.8 | 14.9 | 17.0 | 18.1 |
| 57.5° | 2401.5 | 2115.5 | 1189.2 | 158.2 | 36.5 | 32.6 | 28.0 | 19.5 | 14.2 | 17.0 | 17.7 |
| 60° | 2422.0 | 2098.2 | 1092.6 | 96.6 | 38.2 | 30.1 | 26.2 | 18.4 | 13.4 | 14.2 | 14.9 |
| 62.5° | 2399.7 | 2068.4 | 947.9 | 64.1 | 36.8 | 28.0 | 25.5 | 17.7 | 11.7 | 10.6 | 10.3 |
| 65° | 2356.2 | 1969.0 | 715.3 | 51.7 | 34.3 | 27.3 | 23.0 | 15.6 | 9.6 | 6.7 | 6.4 |
| 67.5° | 2254.6 | 1780.0 | 378.4 | 48.8 | 32.2 | 26.9 | 20.5 | 14.5 | 7.8 | 3.9 | 3.5 |
| 69° | 2135.0 | 1588.5 | 171.7 | 49.6 | 37.5 | 26.9 | 20.9 | 12.7 | 7.1 | 2.8 | 2.5 |
| 70° | 2010.0 | 1413.6 | 78.2 | 48.1 | 40.7 | 28.3 | 20.5 | 11.7 | 6.4 | 2.5 | 2.1 |
| 72.5° | 1550.3 | 878.8 | 53.4 | 42.8 | 45.3 | 27.6 | 20.5 | 11.0 | 6.0 | 1.4 | 1.1 |
| 75° | 920.2 | 218.0 | 48.1 | 34.0 | 43.2 | 33.6 | 24.8 | 12.0 | 5.3 | 0.7 | 0.0 |
| 77.5° | 238.6 | 60.9 | 40.7 | 25.8 | 38.2 | 37.9 | 28.7 | 12.0 | 5.3 | 0.0 | 0.0 |
| 80° | 61.6 | 46.7 | 35.0 | 16.6 | 30.1 | 36.8 | 23.4 | 13.4 | 4.2 | 0.0 | 0.0 |
| 82.5° | 36.8 | 34.0 | 38.2 | 10.3 | 24.1 | 24.8 | 13.8 | 9.6 | 4.6 | 0.0 | 0.0 |
| 85° | 21.2 | 29.4 | 26.9 | 7.8 | 4.6 | 2.5 | 5.7 | 10.6 | 4.6 | 0.0 | 0.0 |
| 87.5° | 12.4 | 15.9 | 6.0 | 1.1 | 1.1 | 0.7 | 0.4 | 1.4 | 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)