

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: INVUE

Report Number: P180087

Luminaire Tested: **ICM-E04-LED-E1-5WQ-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180087
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E04-LED-E1-5WQ-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10820.3 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT

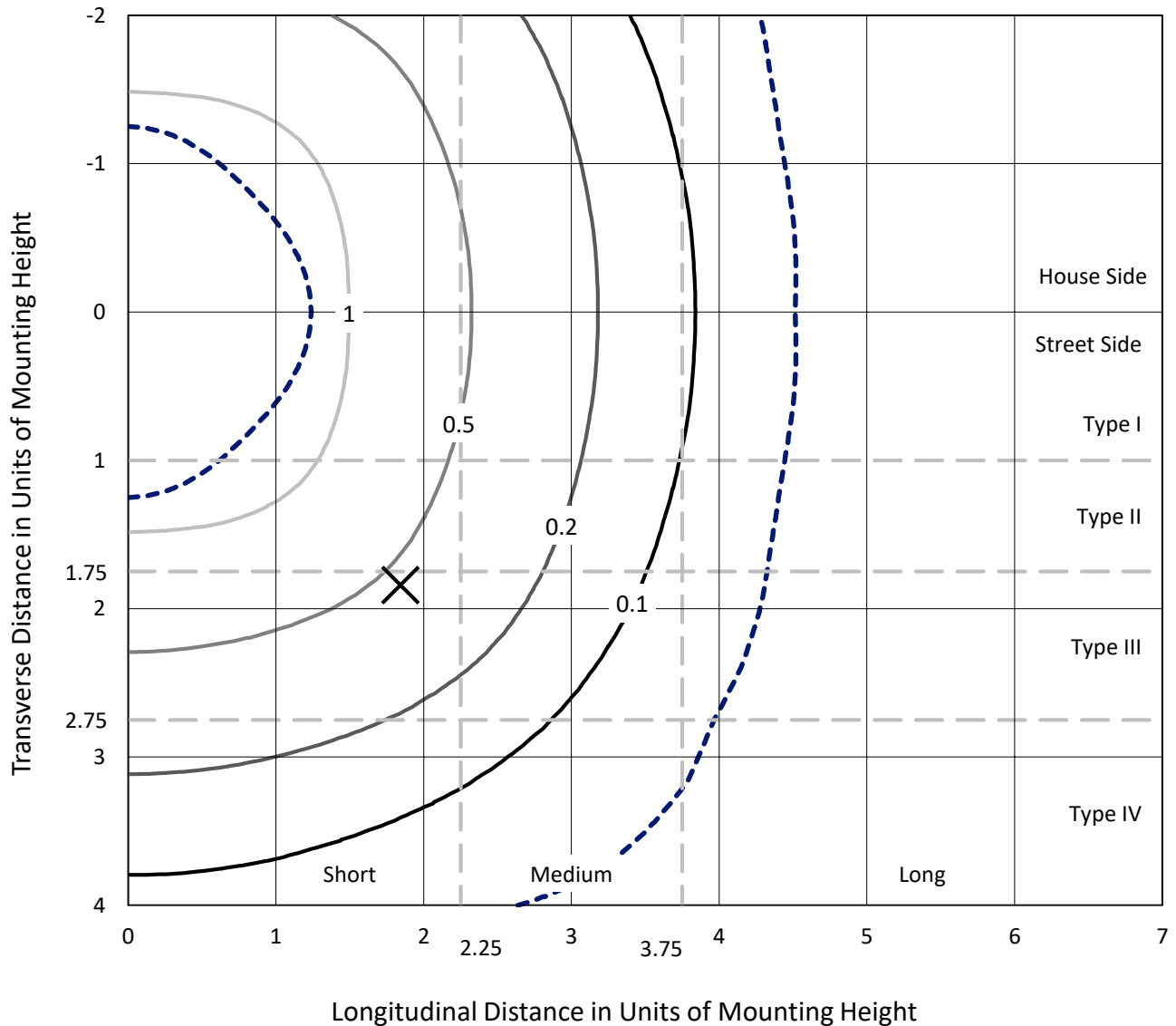


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Iso-Footcandle Lines of Horizontal Illumination

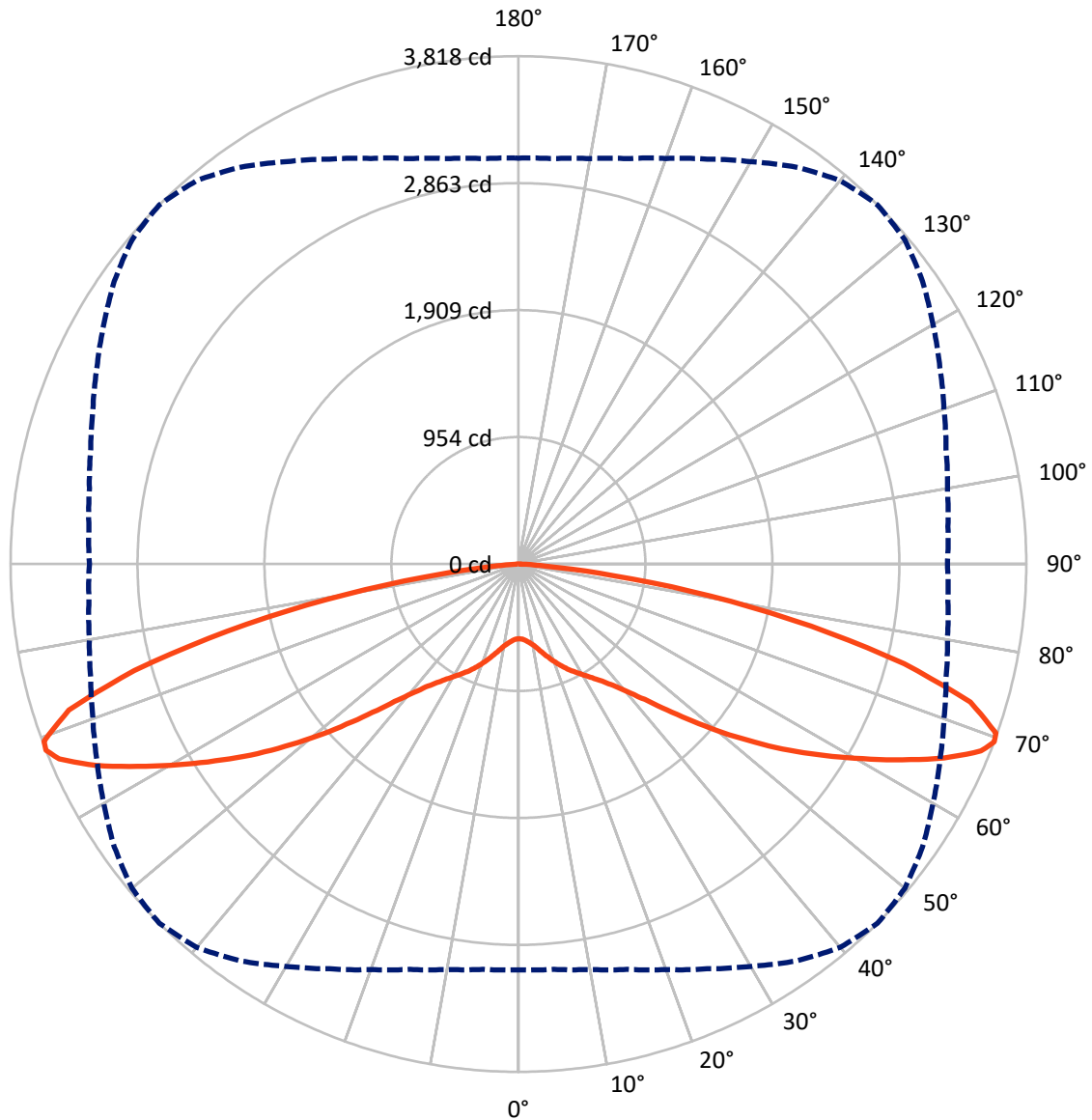
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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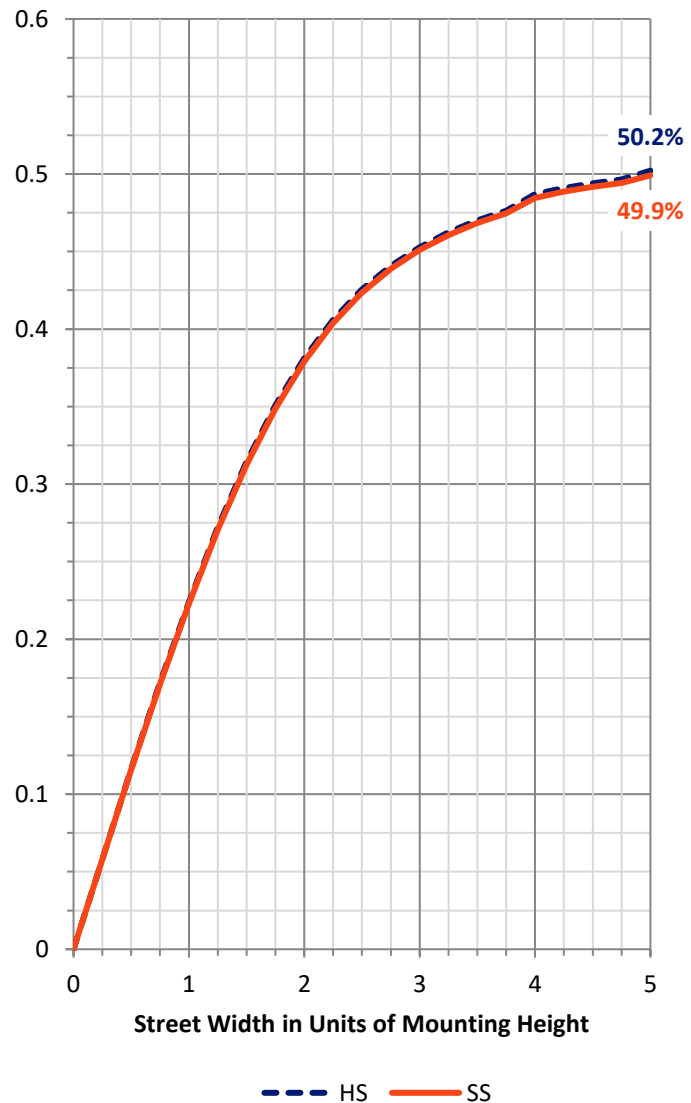
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5410.1 | 0.0 | 5410.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5410.1 | 0.0 | 5410.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10820.3 | 0.0 | 10820.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 56.4 | 0.5 |
| 10°-20° | 199.2 | 1.8 |
| 20°-30° | 403.4 | 3.7 |
| 30°-40° | 676.4 | 6.3 |
| 40°-50° | 1193.1 | 11.0 |
| 50°-60° | 2103.9 | 19.4 |
| 60°-70° | 3212.1 | 29.7 |
| 70°-80° | 2684.1 | 24.8 |
| 80°-90° | 291.7 | 2.7 |
| 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° | 10820.3 | 100.0 |
| 0°-180° | 10820.3 | 100.0 |



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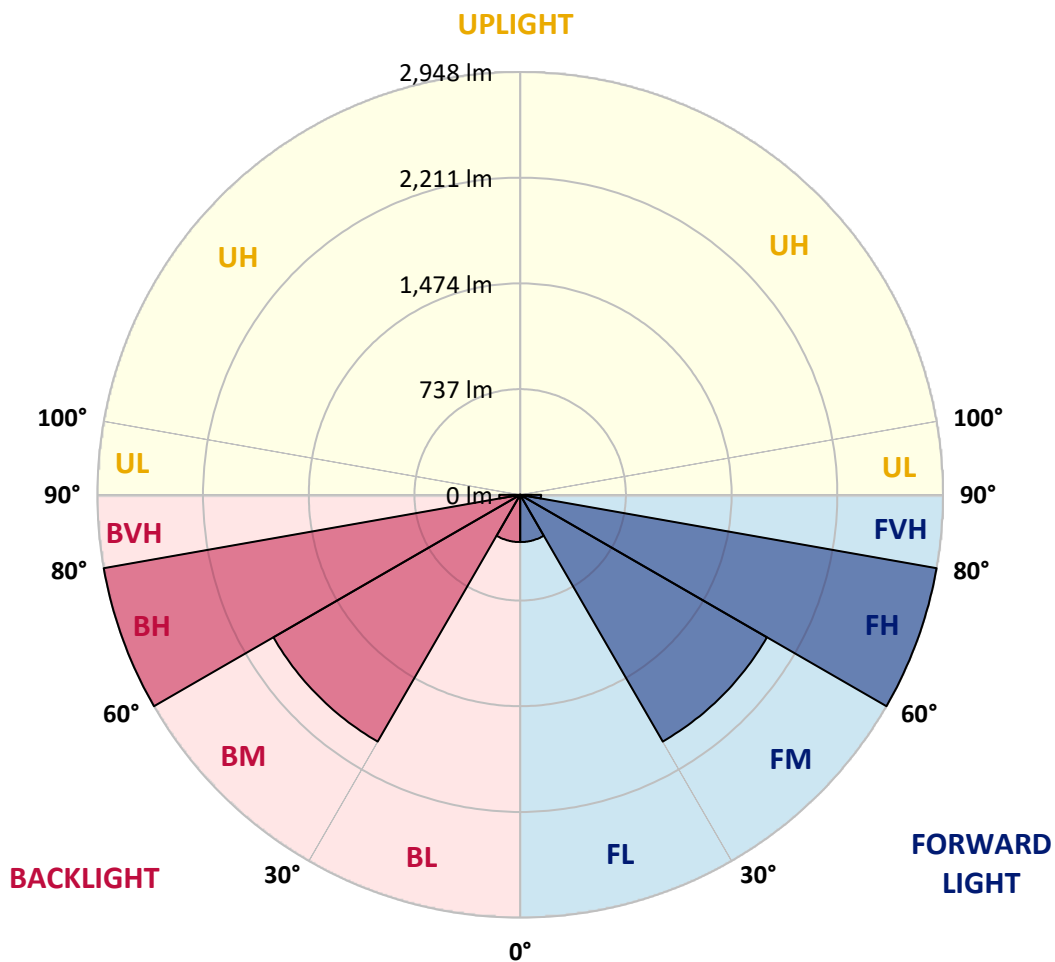
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 329.5 | 3.0 | | | |
| FM | (30°-60°) | 1986.7 | 18.4 | | | |
| FH | (60°-80°) | 2948.1 | 27.2 | | | G2/5000 |
| FVH | (80°-90°) | 145.8 | 1.3 | | | G2/225 |
| BL | (0°-30°) | 329.5 | 3.0 | B1/500 | | |
| BM | (30°-60°) | 1986.7 | 18.4 | B2/2500 | | |
| BH | (60°-80°) | 2948.1 | 27.2 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 145.8 | 1.3 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 561.9 | 561.9 | 561.9 | 561.9 | 561.9 | 561.9 | 561.9 | 561.9 | 561.9 | 561.9 | 561.9 |
| 2.5° | 566.4 | 567.5 | 566.4 | 566.4 | 566.4 | 566.4 | 566.4 | 565.3 | 565.3 | 565.3 | 566.4 |
| 5° | 577.8 | 578.9 | 577.8 | 578.9 | 578.9 | 578.9 | 578.9 | 577.8 | 577.8 | 577.8 | 577.8 |
| 7.5° | 595.9 | 595.9 | 595.9 | 597.0 | 595.9 | 595.9 | 597.0 | 595.9 | 595.9 | 595.9 | 595.9 |
| 10° | 622.0 | 620.8 | 620.8 | 620.8 | 620.8 | 620.8 | 622.0 | 622.0 | 622.0 | 620.8 | 620.8 |
| 12.5° | 653.7 | 652.6 | 653.7 | 653.7 | 654.8 | 654.8 | 654.8 | 654.8 | 654.8 | 654.8 | 653.7 |
| 15° | 692.2 | 692.2 | 692.2 | 693.3 | 695.5 | 695.5 | 694.4 | 695.5 | 695.5 | 695.5 | 695.5 |
| 17.5° | 735.3 | 737.5 | 735.3 | 736.4 | 737.5 | 736.4 | 738.6 | 739.7 | 740.8 | 739.7 | 736.4 |
| 20° | 779.4 | 780.6 | 780.6 | 780.6 | 780.6 | 782.8 | 783.9 | 783.9 | 787.4 | 786.2 | 785.0 |
| 22.5° | 821.3 | 823.5 | 823.5 | 824.7 | 824.7 | 828.1 | 828.1 | 828.1 | 830.3 | 832.7 | 830.3 |
| 25° | 865.5 | 864.4 | 864.4 | 866.6 | 867.7 | 872.3 | 872.3 | 874.5 | 878.0 | 879.1 | 876.8 |
| 27.5° | 905.1 | 904.0 | 904.0 | 907.4 | 908.6 | 914.2 | 914.2 | 918.7 | 921.0 | 922.1 | 919.9 |
| 30° | 947.1 | 947.1 | 946.0 | 949.3 | 952.8 | 957.2 | 959.5 | 964.0 | 967.4 | 968.6 | 966.3 |
| 32.5° | 996.9 | 994.6 | 995.7 | 998.1 | 1000.3 | 1004.8 | 1008.2 | 1013.9 | 1018.4 | 1019.5 | 1017.3 |
| 35° | 1053.6 | 1050.1 | 1051.3 | 1053.6 | 1056.9 | 1063.7 | 1069.4 | 1072.8 | 1079.6 | 1081.9 | 1077.3 |
| 37.5° | 1115.8 | 1117.0 | 1115.8 | 1121.5 | 1127.2 | 1135.1 | 1141.9 | 1146.4 | 1153.2 | 1156.7 | 1153.2 |
| 40° | 1204.2 | 1200.8 | 1204.2 | 1209.9 | 1219.0 | 1229.1 | 1242.7 | 1246.1 | 1252.9 | 1259.7 | 1251.8 |
| 42.5° | 1318.6 | 1316.4 | 1324.3 | 1328.8 | 1339.0 | 1350.3 | 1367.4 | 1376.4 | 1386.6 | 1391.2 | 1384.4 |
| 45° | 1468.2 | 1468.2 | 1477.2 | 1478.3 | 1494.2 | 1508.9 | 1532.8 | 1544.1 | 1563.4 | 1563.4 | 1563.4 |
| 47.5° | 1633.6 | 1640.4 | 1646.1 | 1657.3 | 1668.7 | 1695.8 | 1719.6 | 1744.6 | 1762.7 | 1764.9 | 1761.6 |
| 50° | 1804.7 | 1811.5 | 1828.4 | 1844.3 | 1869.2 | 1903.2 | 1929.2 | 1962.1 | 1978.0 | 1991.5 | 1987.0 |
| 52.5° | 1993.8 | 1994.9 | 2015.4 | 2035.7 | 2072.0 | 2109.3 | 2151.3 | 2185.2 | 2213.6 | 2226.1 | 2215.8 |
| 55° | 2201.1 | 2203.4 | 2221.5 | 2243.0 | 2283.8 | 2326.9 | 2379.0 | 2414.1 | 2450.3 | 2473.0 | 2456.0 |
| 57.5° | 2425.4 | 2426.5 | 2444.7 | 2470.7 | 2519.5 | 2562.5 | 2612.3 | 2662.2 | 2696.2 | 2716.6 | 2705.2 |
| 60° | 2673.5 | 2679.2 | 2692.8 | 2725.6 | 2772.1 | 2817.4 | 2867.3 | 2911.4 | 2951.1 | 2972.6 | 2961.2 |
| 62.5° | 2938.6 | 2944.3 | 2963.6 | 2989.6 | 3030.3 | 3080.2 | 3127.7 | 3184.4 | 3217.3 | 3241.0 | 3224.1 |
| 65° | 3116.5 | 3126.6 | 3157.2 | 3192.4 | 3252.4 | 3317.0 | 3372.5 | 3449.5 | 3489.1 | 3517.5 | 3501.6 |
| 67.5° | 3127.7 | 3133.4 | 3170.8 | 3224.1 | 3304.5 | 3402.0 | 3515.2 | 3635.3 | 3713.4 | 3750.8 | 3723.7 |
| 69° | 3050.7 | 3058.7 | 3094.9 | 3155.0 | 3244.5 | 3357.8 | 3492.6 | 3642.1 | 3762.2 | 3817.7 | 3791.7 |
| 70° | 2963.6 | 2980.5 | 3020.2 | 3085.9 | 3173.1 | 3292.0 | 3431.4 | 3591.1 | 3731.6 | 3807.5 | 3788.2 |
| 72.5° | 2780.0 | 2784.6 | 2810.6 | 2862.7 | 2929.5 | 3028.1 | 3159.5 | 3310.2 | 3443.8 | 3552.6 | 3568.5 |
| 75° | 2467.4 | 2482.1 | 2501.3 | 2536.5 | 2570.4 | 2641.8 | 2730.2 | 2833.2 | 2911.4 | 2995.3 | 2998.6 |
| 77.5° | 1864.7 | 1908.8 | 1923.5 | 1931.5 | 1946.2 | 2002.9 | 2079.9 | 2169.4 | 2234.0 | 2247.5 | 2245.3 |
| 80° | 837.2 | 896.1 | 909.7 | 974.2 | 1013.9 | 1107.9 | 1225.8 | 1362.8 | 1454.6 | 1464.8 | 1439.8 |
| 82.5° | 164.3 | 175.6 | 205.0 | 256.0 | 348.9 | 404.5 | 481.5 | 577.8 | 666.1 | 717.1 | 686.5 |
| 85° | 54.4 | 57.8 | 66.9 | 73.7 | 84.9 | 96.3 | 116.7 | 145.0 | 180.1 | 199.4 | 177.9 |
| 87.5° | 21.5 | 21.5 | 24.9 | 27.2 | 29.5 | 29.5 | 29.5 | 27.2 | 26.0 | 21.5 | 19.3 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 561.9 | 561.9 | 561.9 | 561.9 | 561.9 | 561.9 | 561.9 | 561.9 |
| 2.5° | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 |
| 5° | 577.8 | 576.7 | 576.7 | 575.4 | 575.4 | 575.4 | 575.4 | 575.4 |
| 7.5° | 594.7 | 593.6 | 592.5 | 593.6 | 592.5 | 592.5 | 592.5 | 592.5 |
| 10° | 620.8 | 618.5 | 617.4 | 616.3 | 616.3 | 616.3 | 615.2 | 615.2 |
| 12.5° | 651.4 | 651.4 | 650.2 | 649.1 | 646.9 | 648.0 | 646.9 | 644.6 |
| 15° | 693.3 | 691.1 | 689.9 | 688.7 | 686.5 | 686.5 | 686.5 | 685.4 |
| 17.5° | 735.3 | 732.9 | 732.9 | 729.6 | 728.4 | 728.4 | 728.4 | 729.6 |
| 20° | 781.7 | 778.2 | 776.0 | 773.8 | 771.4 | 772.6 | 770.3 | 772.6 |
| 22.5° | 828.1 | 823.5 | 821.3 | 818.0 | 814.5 | 814.5 | 813.4 | 811.1 |
| 25° | 873.4 | 867.7 | 865.5 | 862.1 | 857.6 | 857.6 | 855.3 | 853.0 |
| 27.5° | 916.5 | 910.8 | 908.6 | 901.8 | 897.2 | 896.1 | 893.8 | 892.7 |
| 30° | 964.0 | 957.2 | 953.9 | 947.1 | 940.3 | 939.2 | 935.7 | 935.7 |
| 32.5° | 1013.9 | 1007.1 | 1004.8 | 994.6 | 988.9 | 988.9 | 986.7 | 984.5 |
| 35° | 1076.2 | 1066.1 | 1063.7 | 1053.6 | 1045.6 | 1045.6 | 1043.4 | 1044.5 |
| 37.5° | 1149.9 | 1141.9 | 1134.0 | 1126.1 | 1117.0 | 1115.8 | 1113.6 | 1111.4 |
| 40° | 1248.4 | 1239.4 | 1230.2 | 1219.0 | 1211.0 | 1208.8 | 1205.3 | 1204.2 |
| 42.5° | 1379.8 | 1370.7 | 1352.7 | 1343.5 | 1335.6 | 1328.8 | 1327.7 | 1326.5 |
| 45° | 1547.5 | 1536.1 | 1523.6 | 1506.7 | 1496.5 | 1481.8 | 1479.5 | 1473.9 |
| 47.5° | 1749.1 | 1727.5 | 1706.1 | 1691.4 | 1675.5 | 1658.5 | 1655.1 | 1646.1 |
| 50° | 1963.2 | 1946.2 | 1910.0 | 1886.2 | 1861.2 | 1844.3 | 1832.9 | 1829.5 |
| 52.5° | 2193.2 | 2161.5 | 2125.2 | 2093.5 | 2057.2 | 2034.6 | 2014.2 | 2008.6 |
| 55° | 2433.3 | 2388.0 | 2342.7 | 2305.3 | 2269.1 | 2241.9 | 2222.6 | 2213.6 |
| 57.5° | 2673.5 | 2623.6 | 2573.8 | 2533.0 | 2502.4 | 2467.4 | 2448.1 | 2443.5 |
| 60° | 2923.8 | 2876.3 | 2825.3 | 2784.6 | 2747.2 | 2716.6 | 2705.2 | 2683.7 |
| 62.5° | 3188.9 | 3139.1 | 3091.6 | 3051.9 | 3004.3 | 2982.8 | 2963.6 | 2951.1 |
| 65° | 3449.5 | 3391.7 | 3331.7 | 3289.8 | 3242.2 | 3211.6 | 3187.8 | 3170.8 |
| 67.5° | 3651.2 | 3563.9 | 3483.5 | 3413.2 | 3348.7 | 3301.1 | 3270.5 | 3254.6 |
| 69° | 3707.8 | 3599.1 | 3495.9 | 3404.2 | 3328.3 | 3275.1 | 3241.0 | 3225.2 |
| 70° | 3701.0 | 3581.0 | 3467.6 | 3366.8 | 3284.1 | 3227.5 | 3194.6 | 3165.1 |
| 72.5° | 3491.5 | 3381.5 | 3255.8 | 3145.9 | 3071.2 | 3016.8 | 2983.9 | 2968.0 |
| 75° | 2979.4 | 2905.8 | 2815.1 | 2730.2 | 2675.7 | 2644.0 | 2603.3 | 2604.4 |
| 77.5° | 2169.4 | 2171.6 | 2110.5 | 2023.3 | 1962.1 | 1950.8 | 1932.7 | 1914.5 |
| 80° | 1345.8 | 1238.2 | 1168.0 | 1074.0 | 1004.8 | 944.7 | 918.7 | 862.1 |
| 82.5° | 620.8 | 484.8 | 376.1 | 284.4 | 218.6 | 171.1 | 149.5 | 122.3 |
| 85° | 138.2 | 105.4 | 87.3 | 70.2 | 60.0 | 55.5 | 45.3 | 42.0 |
| 87.5° | 19.3 | 17.0 | 15.8 | 14.7 | 12.5 | 9.0 | 6.8 | 5.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)