

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: P401642

Luminaire Tested: **ENC-SA1E-730-U-T3**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENC-SA1E-730-U-T3
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6523 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

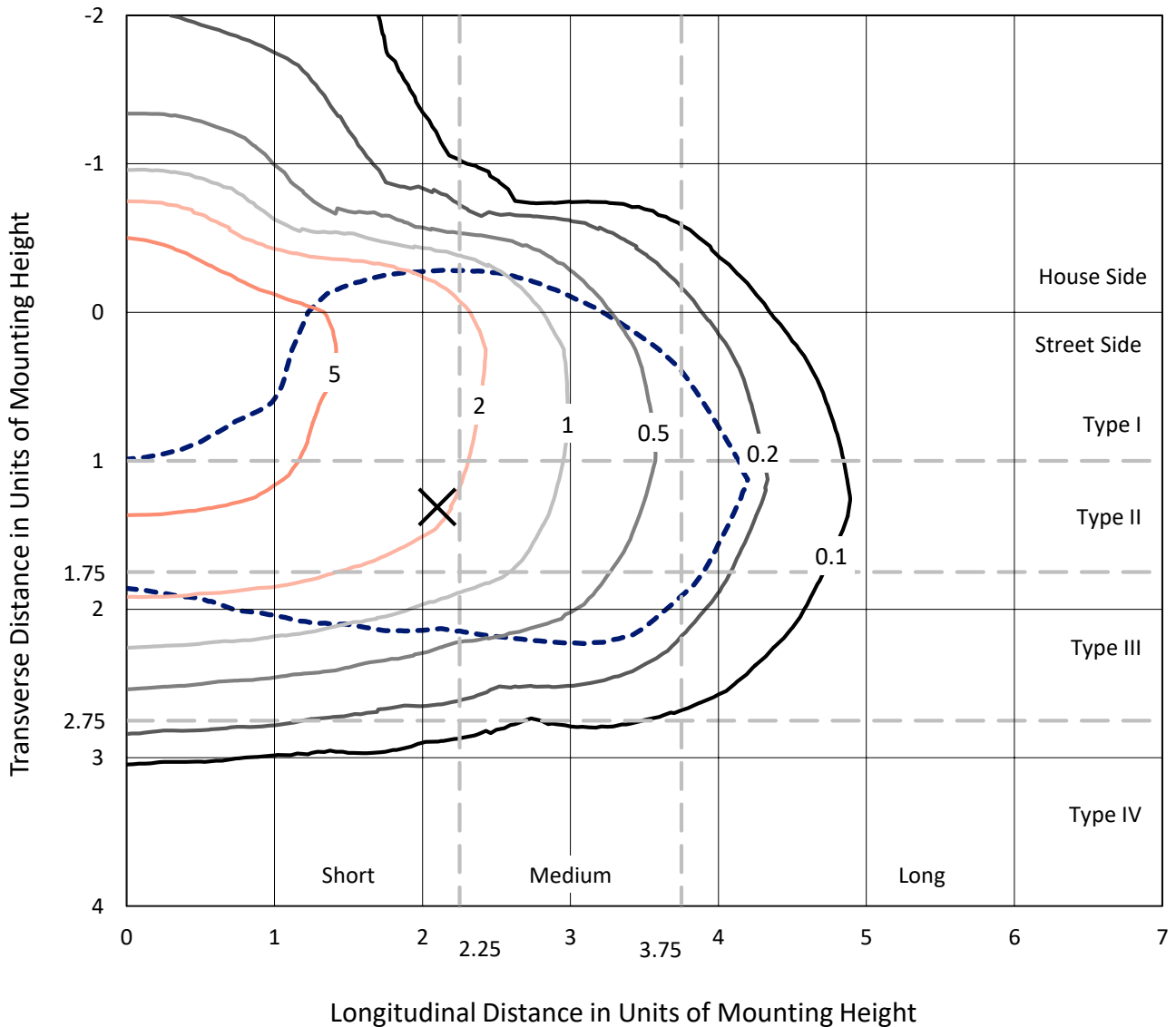
Input Watts (W): 57.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

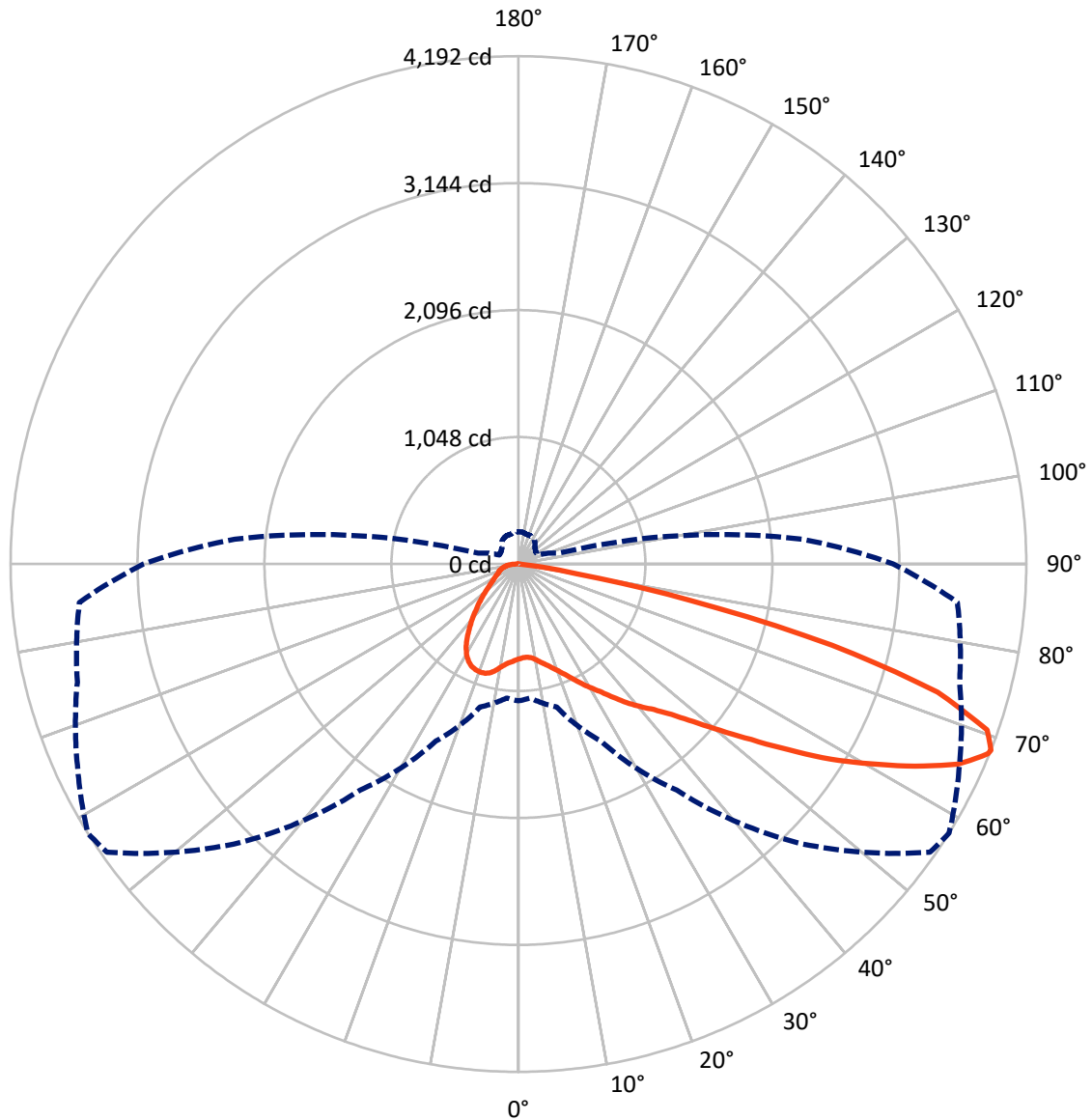
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1527.3 | 0.0 | 1527.3 |
| | % Fixture | 23.4 | 0.0 | 23.4 |
| Street Side | Lumens | 4995.7 | 0.0 | 4995.7 |
| | % Fixture | 76.6 | 0.0 | 76.6 |
| Total | Lumens | 6523.0 | 0.0 | 6523.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 77.1 | 1.2 |
| 10°-20° | 252.4 | 3.9 |
| 20°-30° | 453.8 | 7.0 |
| 30°-40° | 666.7 | 10.2 |
| 40°-50° | 977.7 | 15.0 |
| 50°-60° | 1461.5 | 22.4 |
| 60°-70° | 1709.0 | 26.2 |
| 70°-80° | 842.6 | 12.9 |
| 80°-90° | 82.2 | 1.3 |
| 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° | 6523.0 | 100.0 |
| 0°-180° | 6523.0 | 100.0 |



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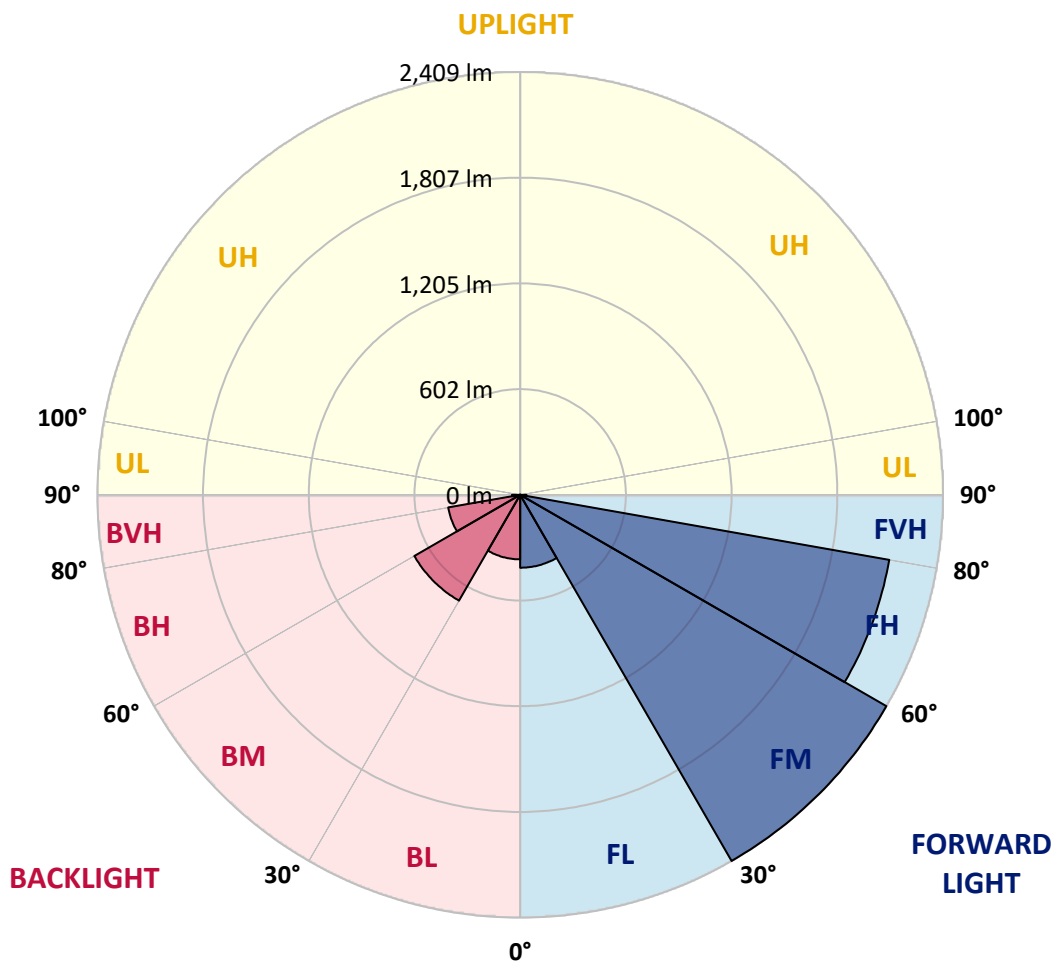
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 415.5 | 6.4 | | | |
| FM | (30°-60°) | 2409.4 | 36.9 | | | |
| FH | (60°-80°) | 2135.4 | 32.7 | | | G2/5000 |
| FVH | (80°-90°) | 35.4 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 367.8 | 5.6 | B1/500 | | |
| BM | (30°-60°) | 696.6 | 10.7 | B1/1000 | | |
| BH | (60°-80°) | 416.2 | 6.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 46.8 | 0.7 | | | G1/100 |
| 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 783.3 | 783.3 | 783.3 | 783.3 | 783.3 | 783.3 | 783.3 | 783.3 | 783.3 | 783.3 | 783.3 |
| 2.5° | 764.2 | 764.2 | 766.9 | 767.8 | 769.7 | 771.5 | 773.3 | 774.2 | 776.9 | 780.6 | 782.4 |
| 5° | 757.8 | 758.7 | 760.6 | 761.5 | 764.2 | 767.8 | 770.6 | 772.4 | 776.9 | 784.2 | 788.8 |
| 7.5° | 772.4 | 775.1 | 776.0 | 776.9 | 777.9 | 780.6 | 780.6 | 781.5 | 786.1 | 793.3 | 799.7 |
| 10° | 796.1 | 797.9 | 800.6 | 803.4 | 806.1 | 807.9 | 802.5 | 803.4 | 805.2 | 812.5 | 821.6 |
| 12.5° | 826.1 | 826.1 | 827.0 | 830.7 | 833.4 | 838.9 | 833.4 | 833.4 | 833.4 | 839.8 | 850.7 |
| 15° | 859.8 | 858.0 | 858.0 | 861.7 | 862.6 | 866.2 | 863.5 | 863.5 | 867.1 | 873.5 | 884.4 |
| 17.5° | 898.1 | 900.8 | 898.1 | 896.3 | 893.5 | 895.4 | 897.2 | 899.0 | 906.3 | 916.3 | 922.7 |
| 20° | 953.7 | 958.2 | 956.4 | 949.1 | 937.3 | 931.8 | 938.2 | 941.8 | 956.4 | 968.2 | 969.1 |
| 22.5° | 1042.0 | 1039.3 | 1036.5 | 1023.8 | 1000.1 | 985.5 | 986.4 | 991.9 | 1014.7 | 1032.9 | 1023.8 |
| 25° | 1124.0 | 1126.7 | 1126.7 | 1108.5 | 1077.5 | 1047.5 | 1050.2 | 1052.9 | 1075.7 | 1092.1 | 1067.5 |
| 27.5° | 1223.3 | 1221.4 | 1220.5 | 1195.9 | 1158.6 | 1129.4 | 1114.0 | 1121.2 | 1137.6 | 1144.0 | 1096.7 |
| 30° | 1326.2 | 1333.5 | 1326.2 | 1291.6 | 1256.1 | 1218.7 | 1187.7 | 1185.9 | 1194.1 | 1193.2 | 1131.3 |
| 32.5° | 1450.1 | 1443.7 | 1441.0 | 1400.9 | 1356.2 | 1307.1 | 1267.9 | 1261.5 | 1257.0 | 1250.6 | 1172.3 |
| 35° | 1545.7 | 1553.9 | 1553.9 | 1519.3 | 1466.5 | 1418.2 | 1357.2 | 1351.7 | 1340.8 | 1319.8 | 1226.0 |
| 37.5° | 1658.6 | 1656.8 | 1663.2 | 1623.1 | 1570.3 | 1523.8 | 1467.4 | 1451.9 | 1427.3 | 1396.3 | 1289.8 |
| 40° | 1768.9 | 1773.4 | 1788.0 | 1739.7 | 1691.4 | 1655.0 | 1574.8 | 1546.6 | 1509.3 | 1481.0 | 1382.7 |
| 42.5° | 1919.1 | 1925.5 | 1931.0 | 1890.9 | 1833.5 | 1800.7 | 1676.9 | 1641.3 | 1620.4 | 1614.9 | 1505.6 |
| 45° | 2101.3 | 2112.2 | 2116.8 | 2080.4 | 2047.6 | 1969.2 | 1805.3 | 1772.5 | 1749.7 | 1773.4 | 1673.2 |
| 47.5° | 2276.2 | 2270.7 | 2291.7 | 2290.8 | 2294.4 | 2200.6 | 1990.2 | 1941.0 | 1919.1 | 1979.3 | 1865.4 |
| 50° | 2374.6 | 2382.8 | 2428.3 | 2474.8 | 2539.4 | 2472.0 | 2204.2 | 2155.1 | 2129.5 | 2204.2 | 2091.3 |
| 52.5° | 2425.6 | 2436.5 | 2497.5 | 2627.8 | 2765.3 | 2733.4 | 2462.0 | 2407.4 | 2385.5 | 2458.4 | 2333.6 |
| 55° | 2430.1 | 2436.5 | 2518.5 | 2720.7 | 2937.5 | 2947.5 | 2756.2 | 2704.3 | 2674.2 | 2721.6 | 2597.7 |
| 57.5° | 2354.5 | 2335.4 | 2476.6 | 2734.3 | 3047.7 | 3170.6 | 3079.6 | 3042.2 | 2957.5 | 3008.5 | 2925.6 |
| 60° | 2219.7 | 2238.8 | 2377.3 | 2677.9 | 3094.1 | 3344.6 | 3403.8 | 3347.3 | 3249.0 | 3269.9 | 3279.0 |
| 62.5° | 2015.7 | 2040.3 | 2184.2 | 2546.7 | 3056.8 | 3492.2 | 3703.5 | 3675.2 | 3543.2 | 3532.2 | 3548.6 |
| 65° | 1725.1 | 1710.6 | 1870.9 | 2259.8 | 2880.1 | 3541.4 | 3997.7 | 3985.8 | 3828.3 | 3699.8 | 3706.2 |
| 67.5° | 1244.2 | 1230.5 | 1342.6 | 1744.3 | 2401.9 | 3358.3 | 4154.3 | 4180.8 | 4000.4 | 3773.6 | 3675.2 |
| 68° | 1129.4 | 1110.3 | 1222.3 | 1612.2 | 2278.9 | 3252.6 | 4146.2 | 4191.7 | 4013.2 | 3769.1 | 3637.0 |
| 70° | 650.3 | 619.4 | 727.8 | 1052.0 | 1677.8 | 2738.0 | 3978.6 | 4104.3 | 3983.1 | 3680.7 | 3386.5 |
| 72.5° | 204.0 | 204.0 | 281.5 | 425.4 | 823.4 | 1732.4 | 3403.8 | 3617.9 | 3643.4 | 3345.5 | 2814.5 |
| 75° | 127.5 | 127.5 | 146.6 | 201.3 | 327.9 | 735.0 | 2348.2 | 2674.2 | 2894.7 | 2816.3 | 2052.1 |
| 77.5° | 86.5 | 84.7 | 97.5 | 124.8 | 183.1 | 235.9 | 1178.6 | 1448.2 | 1770.7 | 1922.8 | 1200.5 |
| 80° | 47.4 | 48.3 | 60.1 | 74.7 | 103.8 | 109.3 | 346.1 | 489.1 | 779.7 | 913.6 | 455.4 |
| 82.5° | 27.3 | 26.4 | 29.1 | 32.8 | 45.5 | 47.4 | 99.3 | 122.1 | 204.0 | 189.5 | 122.1 |
| 85° | 0.0 | 0.9 | 0.9 | 0.9 | 1.8 | 4.6 | 12.8 | 19.1 | 31.0 | 42.8 | 30.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 1.8 | 1.8 | 1.8 | 1.8 | 2.7 |
| 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° | 783.3 | 783.3 | 783.3 | 783.3 | 783.3 | 783.3 | 783.3 | 783.3 | 783.3 | 783.3 | 783.3 |
| 2.5° | 784.2 | 787.0 | 791.5 | 795.2 | 797.0 | 795.2 | 801.5 | 800.6 | 802.5 | 802.5 | 804.3 |
| 5° | 792.4 | 796.1 | 804.3 | 808.8 | 813.4 | 815.2 | 822.5 | 824.3 | 828.0 | 829.8 | 828.9 |
| 7.5° | 804.3 | 808.8 | 818.8 | 827.0 | 833.4 | 838.0 | 849.8 | 855.3 | 860.7 | 862.6 | 864.4 |
| 10° | 826.1 | 832.5 | 843.4 | 853.5 | 862.6 | 868.9 | 879.0 | 886.2 | 891.7 | 893.5 | 895.4 |
| 12.5° | 855.3 | 862.6 | 876.2 | 889.9 | 899.9 | 903.6 | 902.6 | 900.8 | 900.8 | 899.9 | 900.8 |
| 15° | 889.0 | 896.3 | 913.6 | 926.3 | 927.2 | 915.4 | 899.0 | 890.8 | 889.0 | 889.0 | 889.9 |
| 17.5° | 928.1 | 937.3 | 948.2 | 955.5 | 938.2 | 909.0 | 889.9 | 881.7 | 879.9 | 879.0 | 877.1 |
| 20° | 972.8 | 978.2 | 981.9 | 972.8 | 934.5 | 900.8 | 879.0 | 867.1 | 858.0 | 857.1 | 853.5 |
| 22.5° | 1020.1 | 1018.3 | 1013.8 | 981.0 | 924.5 | 881.7 | 851.6 | 829.8 | 817.9 | 817.0 | 813.4 |
| 25° | 1054.8 | 1047.5 | 1033.8 | 982.8 | 906.3 | 850.7 | 807.9 | 773.3 | 757.8 | 750.5 | 752.4 |
| 27.5° | 1077.5 | 1062.0 | 1038.4 | 973.7 | 874.4 | 803.4 | 743.2 | 697.7 | 674.9 | 671.3 | 674.0 |
| 30° | 1104.9 | 1080.3 | 1042.0 | 950.9 | 828.9 | 736.9 | 658.5 | 613.0 | 600.2 | 593.9 | 595.7 |
| 32.5° | 1137.6 | 1105.8 | 1053.8 | 916.3 | 771.5 | 659.4 | 574.7 | 542.9 | 528.3 | 516.4 | 520.1 |
| 35° | 1180.5 | 1140.4 | 1073.0 | 867.1 | 698.6 | 577.5 | 514.6 | 485.5 | 459.1 | 446.3 | 447.2 |
| 37.5° | 1230.5 | 1185.0 | 1089.4 | 809.7 | 619.4 | 515.5 | 462.7 | 428.1 | 395.3 | 370.7 | 366.2 |
| 40° | 1310.7 | 1273.4 | 1103.0 | 746.0 | 543.8 | 464.5 | 411.7 | 372.5 | 341.6 | 317.0 | 314.2 |
| 42.5° | 1444.6 | 1379.9 | 1103.9 | 669.5 | 479.1 | 420.8 | 369.8 | 327.0 | 292.4 | 271.4 | 270.5 |
| 45° | 1602.2 | 1502.0 | 1084.8 | 587.5 | 422.6 | 377.1 | 332.5 | 284.2 | 264.1 | 250.5 | 248.7 |
| 47.5° | 1788.9 | 1642.2 | 1042.9 | 511.0 | 374.4 | 334.3 | 294.2 | 265.1 | 250.5 | 240.5 | 240.5 |
| 50° | 2002.0 | 1807.1 | 1001.0 | 445.4 | 327.9 | 299.7 | 272.3 | 256.9 | 245.9 | 236.8 | 235.9 |
| 52.5° | 2242.5 | 2002.0 | 987.4 | 378.9 | 289.6 | 267.8 | 265.1 | 250.5 | 241.4 | 235.0 | 233.2 |
| 55° | 2529.4 | 2220.6 | 1000.1 | 327.0 | 259.6 | 255.0 | 260.5 | 248.7 | 242.3 | 232.3 | 229.5 |
| 57.5° | 2861.0 | 2433.8 | 986.4 | 283.3 | 238.6 | 243.2 | 255.0 | 248.7 | 243.2 | 230.4 | 226.8 |
| 60° | 3173.4 | 2624.1 | 893.5 | 246.8 | 218.6 | 228.6 | 247.7 | 240.5 | 232.3 | 229.5 | 227.7 |
| 62.5° | 3341.0 | 2686.1 | 712.3 | 218.6 | 203.1 | 214.0 | 235.9 | 226.8 | 221.3 | 227.7 | 228.6 |
| 65° | 3342.8 | 2615.9 | 523.7 | 197.7 | 190.4 | 201.3 | 224.1 | 221.3 | 225.0 | 239.6 | 242.3 |
| 67.5° | 3157.0 | 2402.8 | 369.8 | 178.5 | 177.6 | 191.3 | 229.5 | 247.7 | 250.5 | 265.1 | 265.1 |
| 68° | 3093.2 | 2350.0 | 343.4 | 175.8 | 174.9 | 191.3 | 234.1 | 252.3 | 254.1 | 267.8 | 266.9 |
| 70° | 2743.5 | 1986.5 | 248.7 | 164.9 | 170.3 | 204.9 | 258.7 | 265.1 | 254.1 | 269.6 | 268.7 |
| 72.5° | 2144.1 | 1469.2 | 185.8 | 153.0 | 162.1 | 202.2 | 260.5 | 254.1 | 237.7 | 241.4 | 236.8 |
| 75° | 1449.1 | 936.3 | 153.0 | 140.3 | 143.9 | 171.2 | 236.8 | 239.6 | 220.4 | 216.8 | 211.3 |
| 77.5° | 758.7 | 439.0 | 123.9 | 124.8 | 128.4 | 148.5 | 211.3 | 217.7 | 200.4 | 189.5 | 187.6 |
| 80° | 279.6 | 174.0 | 101.1 | 110.2 | 112.0 | 130.3 | 181.3 | 191.3 | 174.9 | 166.7 | 164.9 |
| 82.5° | 102.0 | 86.5 | 83.8 | 96.5 | 94.7 | 111.1 | 158.5 | 165.8 | 148.5 | 140.3 | 135.7 |
| 85° | 28.2 | 31.9 | 52.8 | 75.6 | 73.8 | 86.5 | 127.5 | 133.9 | 119.3 | 98.4 | 95.6 |
| 87.5° | 1.8 | 6.4 | 20.9 | 44.6 | 46.5 | 53.7 | 92.0 | 101.1 | 88.4 | 72.9 | 72.0 |
| 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)