

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: STREETWORKS

Report Number: P233783

Luminaire Tested: **VERD-C01H-D-U-T4-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-34)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C01H-D-U-T4-7030-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1210mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8825 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

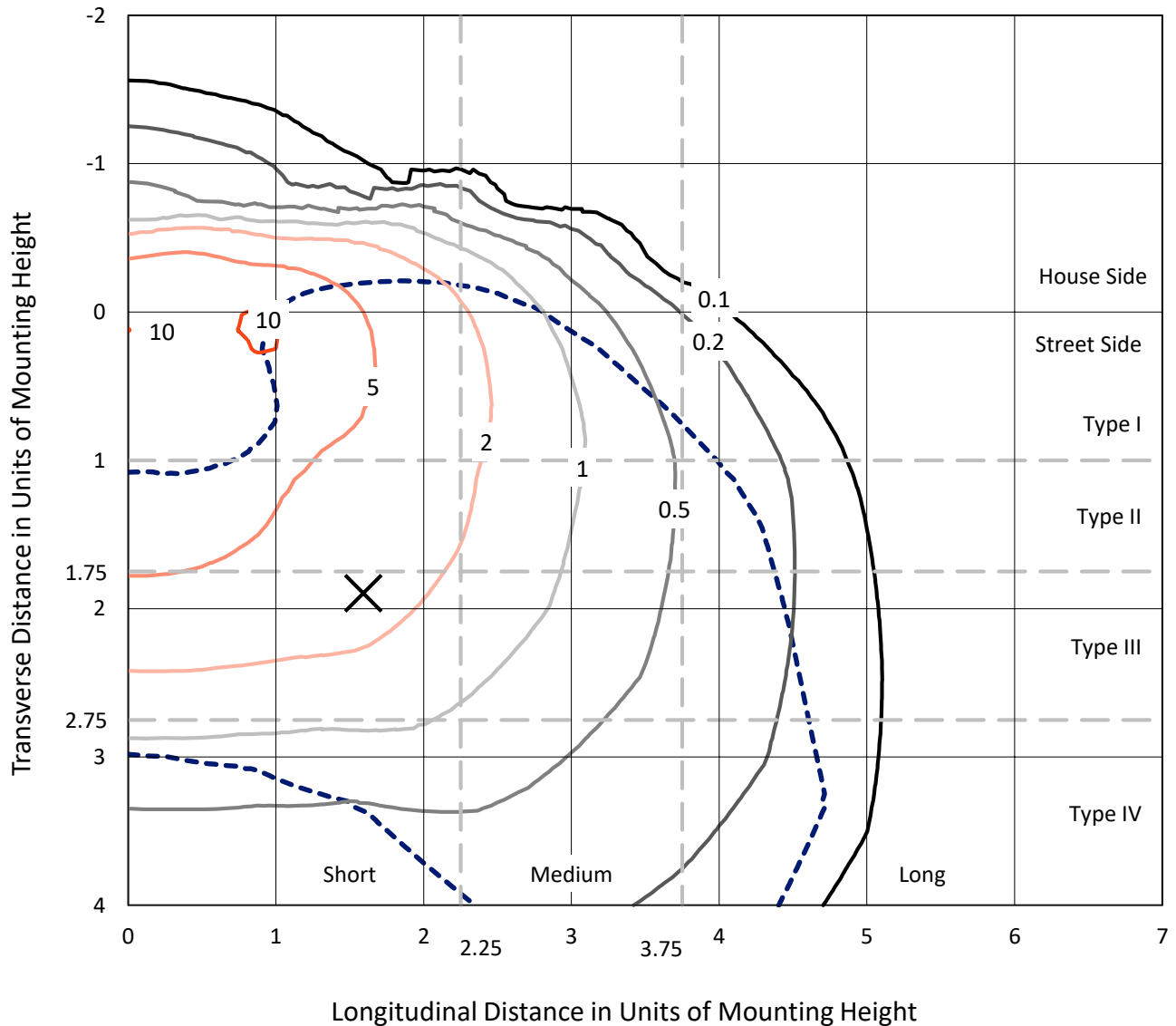
Input Watts (W): 73
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

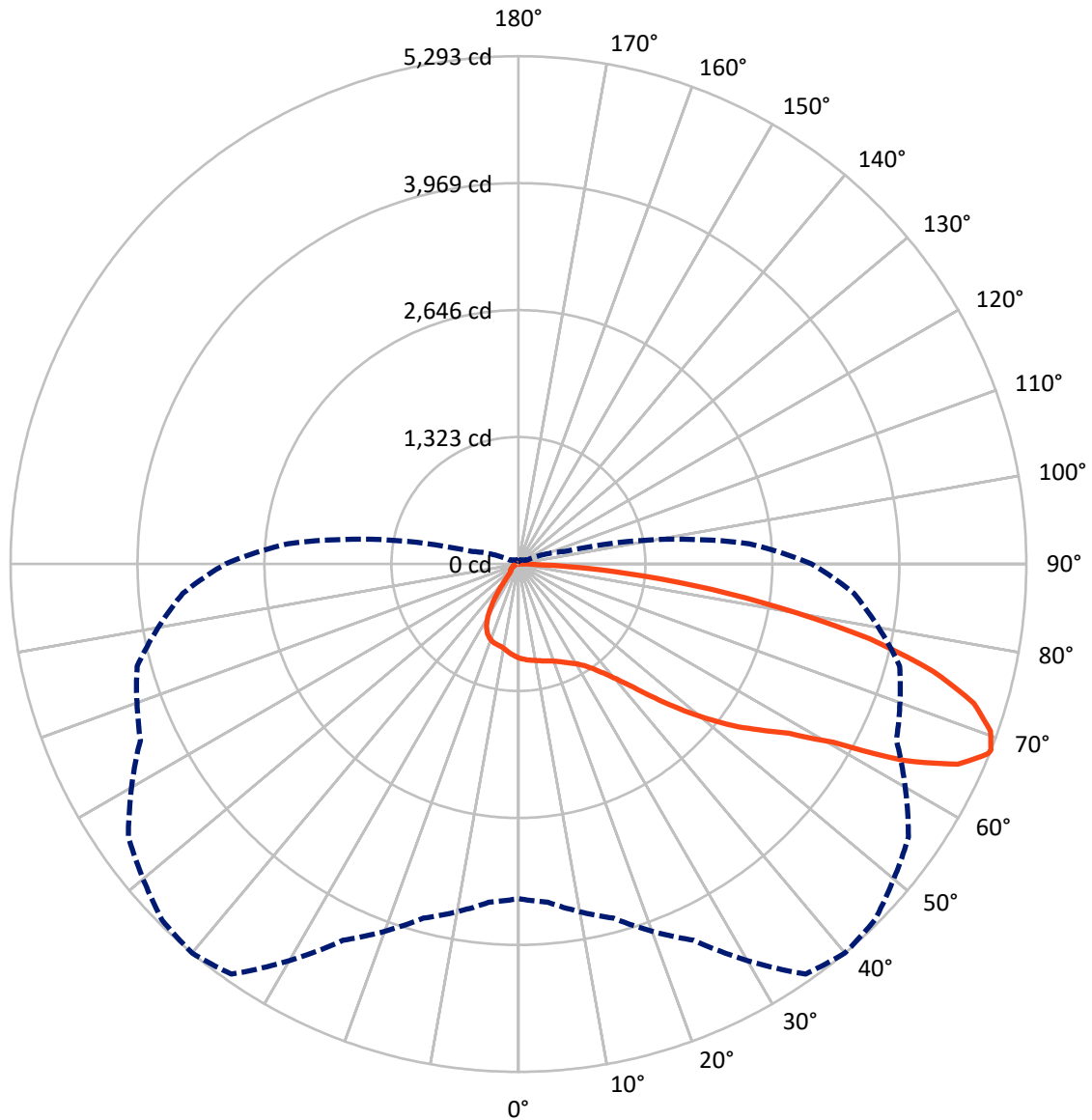
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1431.6 | 0.0 | 1431.6 |
| | % Fixture | 16.2 | 0.0 | 16.2 |
| Street Side | Lumens | 7393.4 | 0.0 | 7393.4 |
| | % Fixture | 83.8 | 0.0 | 83.8 |
| Total | Lumens | 8825.0 | 0.0 | 8825.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 93.0 | 1.1 |
| 10°-20° | 278.7 | 3.2 |
| 20°-30° | 467.7 | 5.3 |
| 30°-40° | 692.6 | 7.8 |
| 40°-50° | 1171.7 | 13.3 |
| 50°-60° | 1788.3 | 20.3 |
| 60°-70° | 2341.5 | 26.5 |
| 70°-80° | 1683.4 | 19.1 |
| 80°-90° | 308.2 | 3.5 |
| 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° | 8825.0 | 100.0 |
| 0°-180° | 8825.0 | 100.0 |

Coefficient of Utilization



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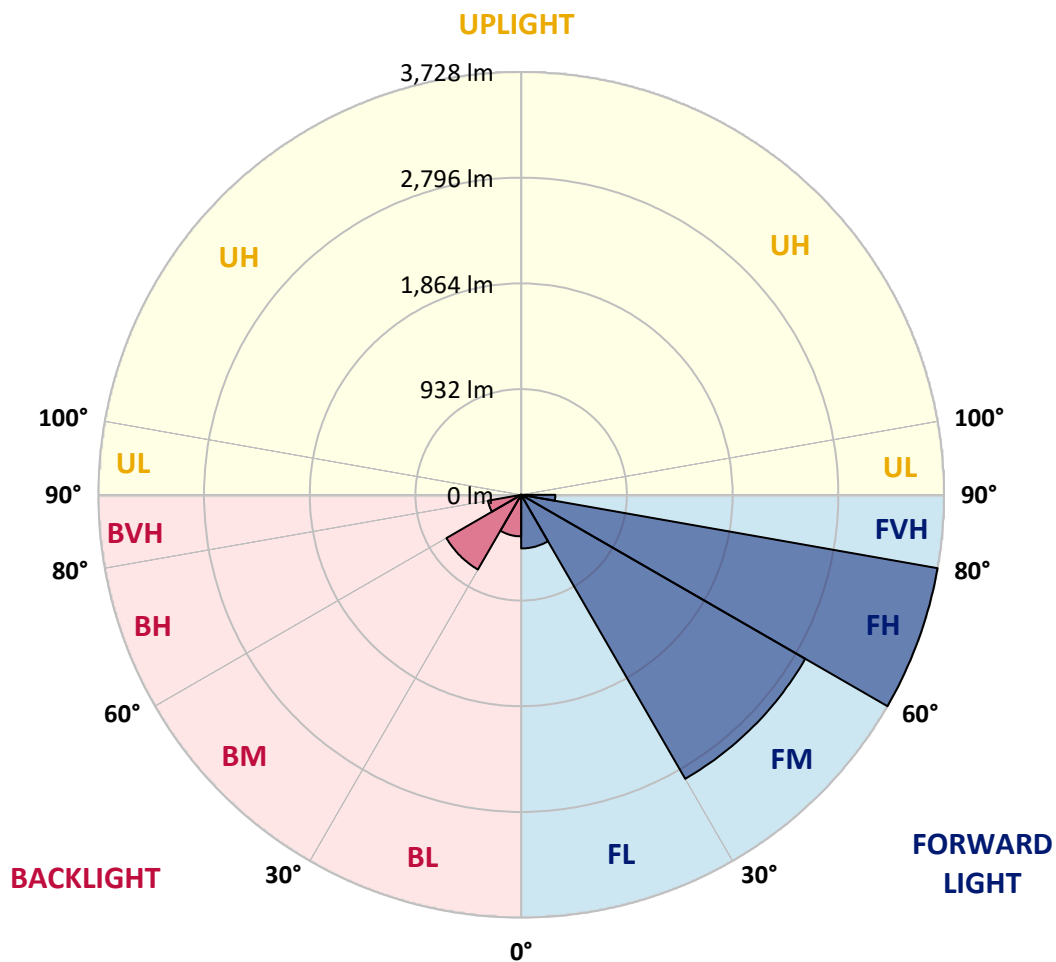
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 473.1 | 5.4 | | | |
| FM (30°-60°) | 2891.7 | 32.8 | | | |
| FH (60°-80°) | 3727.8 | 42.2 | | | G2/5000 |
| FVH (80°-90°) | 300.8 | 3.4 | | | G3/500 |
| BL (0°-30°) | 366.3 | 4.2 | B1/500 | | |
| BM (30°-60°) | 760.9 | 8.6 | B1/1000 | | |
| BH (60°-80°) | 297.1 | 3.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 7.3 | 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° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 980.6 | 980.6 | 980.6 | 980.6 | 980.6 | 980.6 | 980.6 | 980.6 | 980.6 | 980.6 | 980.6 |
| 2.5° | 1011.7 | 1013.9 | 1010.9 | 1003.5 | 995.4 | 991.0 | 990.2 | 989.5 | 985.8 | 980.6 | 973.2 |
| 5° | 1022.0 | 1022.7 | 1019.8 | 1013.9 | 1006.5 | 1005.0 | 1002.8 | 1003.5 | 1001.3 | 996.1 | 988.0 |
| 7.5° | 1026.4 | 1027.9 | 1024.2 | 1018.3 | 1012.4 | 1012.4 | 1011.7 | 1013.9 | 1012.4 | 1010.2 | 1000.6 |
| 10° | 1025.0 | 1027.2 | 1025.0 | 1022.7 | 1020.5 | 1022.7 | 1021.3 | 1026.4 | 1027.2 | 1027.2 | 1016.1 |
| 12.5° | 1022.7 | 1025.7 | 1026.4 | 1028.7 | 1032.4 | 1034.6 | 1037.5 | 1048.6 | 1053.8 | 1057.5 | 1048.6 |
| 15° | 1025.0 | 1026.4 | 1032.4 | 1036.1 | 1043.4 | 1048.6 | 1055.3 | 1073.7 | 1082.6 | 1093.0 | 1088.5 |
| 17.5° | 1034.6 | 1038.3 | 1047.1 | 1050.8 | 1058.2 | 1061.9 | 1070.0 | 1093.0 | 1110.7 | 1129.2 | 1132.1 |
| 20° | 1055.3 | 1057.5 | 1072.3 | 1073.7 | 1077.4 | 1081.1 | 1090.0 | 1115.1 | 1141.7 | 1168.3 | 1175.7 |
| 22.5° | 1078.2 | 1083.3 | 1097.4 | 1095.2 | 1102.6 | 1104.0 | 1112.2 | 1139.5 | 1176.5 | 1209.0 | 1225.2 |
| 25° | 1101.8 | 1106.3 | 1120.3 | 1121.8 | 1130.6 | 1136.6 | 1146.2 | 1172.8 | 1220.1 | 1261.4 | 1290.3 |
| 27.5° | 1121.8 | 1130.6 | 1143.9 | 1145.4 | 1162.4 | 1169.8 | 1183.8 | 1214.1 | 1271.0 | 1322.0 | 1369.3 |
| 30° | 1158.7 | 1160.9 | 1173.5 | 1177.9 | 1200.8 | 1207.5 | 1223.8 | 1262.2 | 1331.6 | 1395.2 | 1469.1 |
| 32.5° | 1204.5 | 1203.8 | 1215.6 | 1223.0 | 1251.1 | 1262.9 | 1283.6 | 1327.9 | 1404.8 | 1483.9 | 1588.8 |
| 35° | 1288.8 | 1281.4 | 1288.8 | 1296.2 | 1328.7 | 1341.3 | 1363.4 | 1429.9 | 1520.1 | 1654.6 | 1783.9 |
| 37.5° | 1482.4 | 1471.3 | 1455.8 | 1418.8 | 1427.0 | 1443.2 | 1475.7 | 1565.9 | 1698.9 | 1948.7 | 2073.6 |
| 40° | 1817.9 | 1793.5 | 1728.5 | 1630.9 | 1573.3 | 1574.8 | 1605.1 | 1723.3 | 1918.4 | 2285.7 | 2379.5 |
| 42.5° | 2121.6 | 2104.6 | 2026.3 | 1892.5 | 1759.5 | 1752.1 | 1762.5 | 1900.7 | 2157.8 | 2598.3 | 2647.0 |
| 45° | 2407.6 | 2415.7 | 2301.9 | 2197.0 | 2038.1 | 1989.3 | 1976.8 | 2089.8 | 2423.1 | 2876.9 | 2881.3 |
| 47.5° | 2672.2 | 2685.5 | 2548.0 | 2449.0 | 2292.3 | 2250.2 | 2211.0 | 2288.6 | 2673.6 | 3114.1 | 3077.9 |
| 50° | 2956.7 | 2967.0 | 2776.4 | 2695.1 | 2563.5 | 2524.4 | 2494.8 | 2528.8 | 2930.1 | 3334.3 | 3253.0 |
| 52.5° | 3349.8 | 3292.2 | 3052.7 | 2918.2 | 2801.5 | 2798.5 | 2775.6 | 2797.0 | 3222.0 | 3532.3 | 3386.0 |
| 55° | 3813.9 | 3663.1 | 3408.9 | 3193.9 | 3043.9 | 3052.0 | 3024.6 | 3060.1 | 3510.9 | 3702.3 | 3509.4 |
| 57.5° | 3977.9 | 3974.2 | 3856.0 | 3649.8 | 3345.4 | 3326.9 | 3279.6 | 3319.5 | 3760.7 | 3861.2 | 3596.6 |
| 60° | 4205.5 | 4225.5 | 4238.8 | 4114.6 | 3938.8 | 3771.0 | 3612.9 | 3609.2 | 3993.5 | 4006.0 | 3639.5 |
| 62.5° | 4352.6 | 4371.1 | 4474.5 | 4458.3 | 4566.9 | 4511.5 | 4331.2 | 3931.4 | 4171.5 | 4099.9 | 3655.7 |
| 65° | 4077.7 | 4123.5 | 4384.4 | 4583.2 | 4953.4 | 5031.0 | 5005.1 | 4426.5 | 4292.7 | 4127.2 | 3625.4 |
| 67.5° | 3580.4 | 3640.2 | 3926.2 | 4391.0 | 5192.8 | 5279.3 | 5232.0 | 4925.3 | 4345.2 | 4115.4 | 3541.9 |
| 68° | 3487.3 | 3539.0 | 3819.8 | 4326.7 | 5217.2 | 5292.6 | 5249.7 | 4962.3 | 4347.4 | 4113.9 | 3510.2 |
| 70° | 3039.4 | 3081.6 | 3355.7 | 3997.1 | 5149.2 | 5219.4 | 5213.5 | 4997.0 | 4328.2 | 4068.1 | 3296.6 |
| 72.5° | 2358.1 | 2400.2 | 2643.3 | 3315.1 | 4835.2 | 4963.7 | 4958.6 | 4858.1 | 4292.7 | 3834.6 | 2763.8 |
| 75° | 1704.8 | 1751.4 | 1973.1 | 2547.3 | 4184.1 | 4467.1 | 4524.0 | 4620.1 | 3924.0 | 3227.1 | 1966.4 |
| 77.5° | 1231.1 | 1265.1 | 1456.5 | 1924.3 | 3417.8 | 3741.5 | 3856.7 | 3953.5 | 3211.6 | 2352.2 | 935.6 |
| 80° | 821.0 | 845.4 | 1030.1 | 1430.7 | 2574.6 | 2765.3 | 2889.4 | 2727.6 | 1827.5 | 850.6 | 101.2 |
| 82.5° | 505.5 | 521.0 | 666.6 | 1003.5 | 1780.9 | 1840.8 | 1841.5 | 1455.1 | 589.0 | 81.3 | 54.7 |
| 85° | 271.2 | 276.4 | 362.1 | 547.6 | 940.7 | 985.8 | 968.1 | 611.1 | 119.0 | 43.6 | 29.6 |
| 87.5° | 43.6 | 47.3 | 113.8 | 205.4 | 290.4 | 223.9 | 143.4 | 45.1 | 11.8 | 6.7 | 4.4 |
| 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° | 980.6 | 980.6 | 980.6 | 980.6 | 980.6 | 980.6 | 980.6 | 980.6 | 980.6 | 980.6 | 980.6 |
| 2.5° | 976.9 | 974.7 | 968.8 | 965.8 | 958.5 | 960.7 | 960.7 | 954.8 | 957.7 | 969.5 | 968.1 |
| 5° | 985.8 | 986.5 | 972.5 | 965.1 | 948.9 | 944.4 | 937.8 | 928.9 | 928.2 | 936.3 | 937.0 |
| 7.5° | 993.2 | 996.9 | 976.9 | 962.2 | 940.0 | 924.5 | 911.2 | 895.6 | 892.0 | 897.1 | 897.1 |
| 10° | 1005.0 | 1008.7 | 983.6 | 962.9 | 930.4 | 905.3 | 882.3 | 862.4 | 854.3 | 854.3 | 855.0 |
| 12.5° | 1036.1 | 1033.8 | 1005.0 | 973.2 | 934.8 | 894.9 | 858.7 | 832.1 | 812.9 | 812.1 | 809.2 |
| 15° | 1078.9 | 1070.8 | 1042.7 | 994.7 | 945.2 | 894.2 | 843.9 | 802.5 | 769.3 | 760.4 | 756.7 |
| 17.5° | 1124.7 | 1114.4 | 1080.4 | 1022.0 | 961.4 | 893.4 | 826.9 | 769.3 | 713.9 | 692.4 | 685.8 |
| 20° | 1174.2 | 1161.7 | 1126.9 | 1053.8 | 977.7 | 888.3 | 801.8 | 721.2 | 645.9 | 605.2 | 594.9 |
| 22.5° | 1228.9 | 1218.6 | 1176.5 | 1086.3 | 988.8 | 877.2 | 762.6 | 660.6 | 564.6 | 506.2 | 501.8 |
| 25° | 1299.9 | 1290.3 | 1228.2 | 1115.1 | 989.5 | 856.5 | 710.9 | 583.1 | 462.6 | 393.9 | 379.8 |
| 27.5° | 1384.9 | 1367.9 | 1269.6 | 1132.9 | 977.7 | 820.3 | 643.7 | 479.6 | 343.6 | 286.0 | 284.5 |
| 30° | 1477.2 | 1446.2 | 1302.8 | 1137.3 | 951.1 | 762.6 | 551.3 | 352.5 | 243.9 | 204.7 | 204.7 |
| 32.5° | 1585.9 | 1529.0 | 1336.8 | 1129.9 | 907.5 | 682.8 | 422.0 | 244.6 | 167.7 | 149.3 | 149.3 |
| 35° | 1744.7 | 1656.8 | 1380.4 | 1111.4 | 846.1 | 572.7 | 300.0 | 161.8 | 132.3 | 130.1 | 130.1 |
| 37.5° | 1996.0 | 1849.7 | 1439.5 | 1080.4 | 761.9 | 436.7 | 195.1 | 124.9 | 126.4 | 126.4 | 125.6 |
| 40° | 2263.5 | 2072.8 | 1520.8 | 1030.9 | 656.2 | 301.5 | 127.8 | 118.2 | 120.5 | 121.9 | 121.2 |
| 42.5° | 2505.1 | 2284.9 | 1609.5 | 964.4 | 531.3 | 189.9 | 116.8 | 113.8 | 112.3 | 113.8 | 114.5 |
| 45° | 2714.3 | 2468.9 | 1698.9 | 877.9 | 392.4 | 124.1 | 113.8 | 107.2 | 102.7 | 103.5 | 104.2 |
| 47.5° | 2893.1 | 2613.8 | 1759.5 | 787.0 | 260.1 | 110.1 | 110.1 | 98.3 | 93.9 | 93.9 | 93.9 |
| 50° | 3049.8 | 2742.4 | 1796.5 | 678.4 | 155.2 | 108.6 | 103.5 | 90.2 | 85.7 | 85.0 | 85.7 |
| 52.5° | 3163.6 | 2832.5 | 1792.0 | 546.1 | 104.2 | 104.9 | 94.6 | 82.8 | 77.6 | 79.1 | 79.8 |
| 55° | 3253.7 | 2889.4 | 1752.9 | 399.8 | 97.5 | 98.3 | 87.9 | 74.6 | 70.9 | 71.7 | 71.7 |
| 57.5° | 3310.6 | 2903.5 | 1673.1 | 260.1 | 95.3 | 87.9 | 79.1 | 66.5 | 62.1 | 62.1 | 62.1 |
| 60° | 3329.1 | 2896.1 | 1564.4 | 166.3 | 94.6 | 79.1 | 71.7 | 59.9 | 55.4 | 55.4 | 55.4 |
| 62.5° | 3313.6 | 2853.2 | 1380.4 | 119.7 | 87.9 | 73.9 | 65.0 | 53.2 | 48.8 | 47.3 | 47.3 |
| 65° | 3258.2 | 2738.7 | 1064.1 | 99.0 | 79.1 | 68.0 | 59.1 | 48.0 | 42.1 | 39.9 | 39.2 |
| 67.5° | 3096.3 | 2490.4 | 619.3 | 93.1 | 71.7 | 62.1 | 54.7 | 43.6 | 36.9 | 33.3 | 32.5 |
| 68° | 3054.2 | 2416.5 | 509.2 | 92.4 | 71.7 | 61.3 | 53.9 | 42.1 | 35.5 | 31.8 | 31.0 |
| 70° | 2752.7 | 1949.4 | 146.3 | 87.9 | 70.2 | 59.1 | 49.5 | 38.4 | 31.8 | 27.3 | 26.6 |
| 72.5° | 2072.8 | 1142.5 | 91.6 | 78.3 | 69.5 | 52.5 | 48.0 | 38.4 | 28.1 | 23.6 | 22.2 |
| 75° | 1157.2 | 260.1 | 77.6 | 58.4 | 65.0 | 51.7 | 47.3 | 34.7 | 25.1 | 19.2 | 18.5 |
| 77.5° | 238.0 | 75.4 | 66.5 | 40.6 | 49.5 | 45.1 | 39.9 | 29.6 | 22.9 | 14.8 | 14.0 |
| 80° | 67.2 | 56.2 | 59.1 | 29.6 | 28.1 | 31.8 | 29.6 | 25.9 | 17.0 | 11.1 | 11.1 |
| 82.5° | 43.6 | 41.4 | 53.2 | 20.0 | 14.8 | 14.8 | 19.2 | 15.5 | 14.8 | 8.9 | 8.9 |
| 85° | 26.6 | 34.7 | 25.9 | 8.9 | 7.4 | 5.9 | 6.7 | 6.7 | 8.9 | 5.9 | 5.9 |
| 87.5° | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.0 | 2.2 | 2.2 | 2.2 | 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 |

(END OF REPORT)