

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: P129493

Luminaire Tested: **VERD-A01-E-U-T3-7030-AP**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P129493  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25189)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-A01-E-U-T3-7030-AP  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K LED AND TYPE III OPTICS, GREY PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5594 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Medium - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

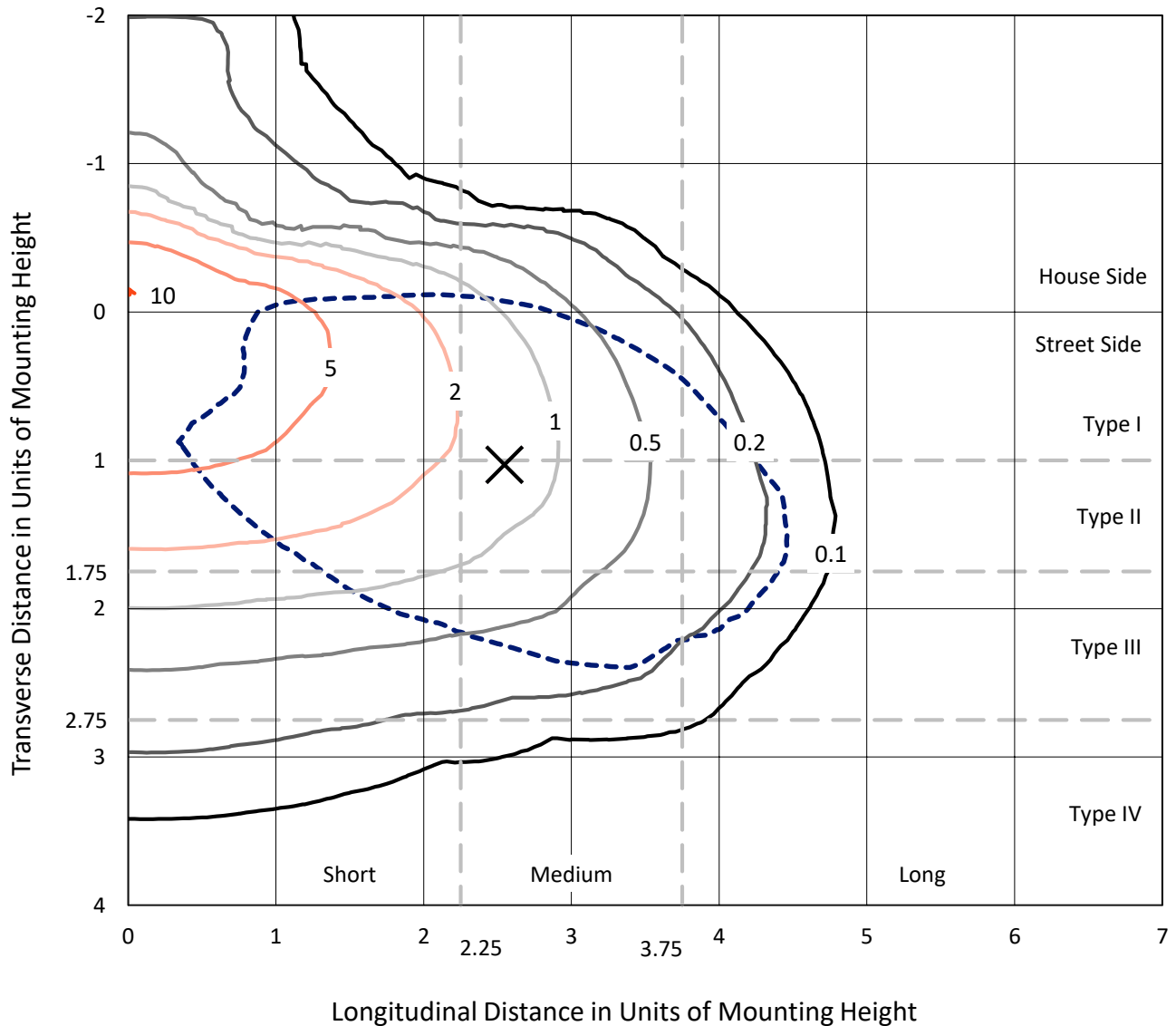
Input Watts (W): 64  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

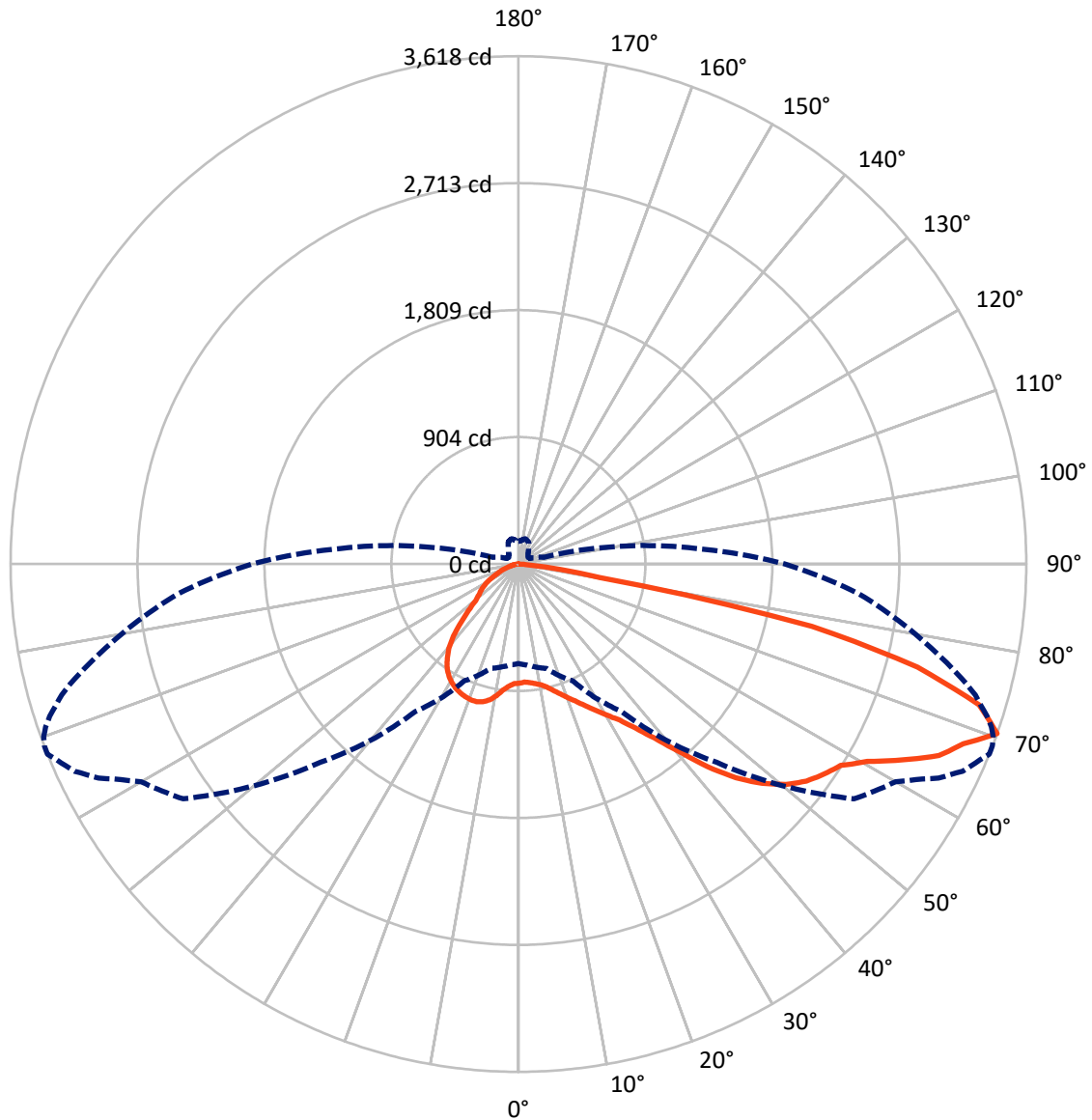
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc  
 Type III - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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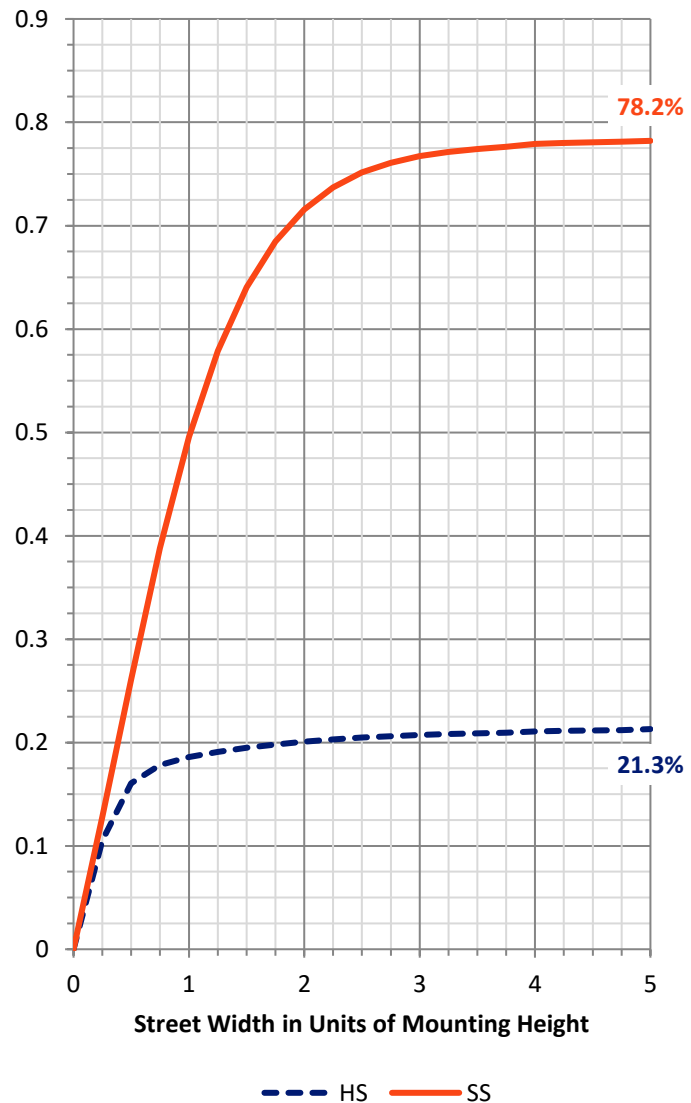
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1216.0	0.0	1216.0
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	4378.0	0.0	4378.0
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	5594.0	0.0	5594.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.5	1.5
10°-20°	282.1	5.0
20°-30°	476.0	8.5
30°-40°	676.4	12.1
40°-50°	928.2	16.6
50°-60°	1119.9	20.0
60°-70°	1207.6	21.6
70°-80°	754.7	13.5
80°-90°	62.5	1.1
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°	5594.0	100.0
0°-180°	5594.0	100.0



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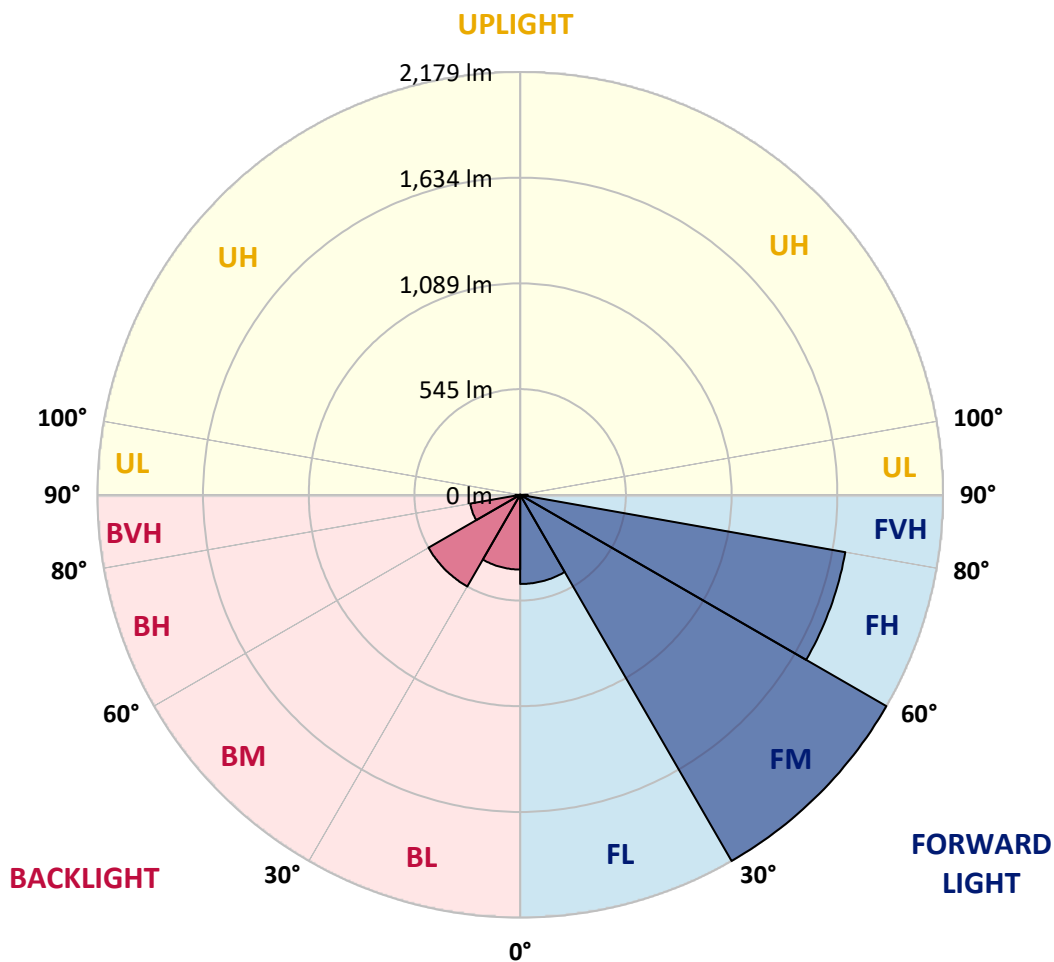
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	459.5	8.2			
FM	(30°-60°)	2178.8	38.9			
FH	(60°-80°)	1701.2	30.4			G1/1800
FVH	(80°-90°)	38.5	0.7			G1/100
BL	(0°-30°)	385.1	6.9	B1/500		
BM	(30°-60°)	545.7	9.8	B1/1000		
BH	(60°-80°)	261.2	4.7	B1/500		G1/500
BVH	(80°-90°)	24.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
0°	849.1	849.1	849.1	849.1	849.1	849.1	849.1	849.1	849.1	849.1	849.1
2.5°	855.8	855.2	857.1	847.8	846.0	846.6	847.8	842.9	842.3	842.3	841.7
5°	870.0	868.7	870.6	861.4	857.1	855.8	856.4	851.5	850.9	850.3	849.1
7.5°	895.2	892.1	893.3	884.1	876.7	872.4	870.0	865.7	865.7	864.4	863.2
10°	922.2	921.6	921.6	911.8	903.2	895.2	885.9	882.3	882.9	881.6	881.0
12.5°	955.4	955.4	957.3	946.8	943.1	932.1	914.8	911.2	909.9	908.7	906.9
15°	1001.5	1000.3	1004.0	991.7	988.0	975.1	954.8	946.8	943.7	944.4	943.1
17.5°	1061.2	1057.5	1054.4	1039.7	1035.3	1015.7	993.5	985.5	982.5	983.1	981.2
20°	1123.3	1122.7	1116.5	1093.8	1083.9	1058.1	1037.2	1024.3	1022.4	1019.4	1019.4
22.5°	1195.2	1197.7	1188.4	1162.0	1142.9	1110.4	1082.7	1069.2	1065.5	1064.9	1062.4
25°	1277.6	1278.2	1271.4	1245.6	1214.9	1171.2	1133.7	1121.4	1117.1	1115.9	1114.0
27.5°	1366.1	1371.0	1360.6	1339.7	1299.7	1243.2	1190.9	1182.3	1181.1	1177.4	1175.5
30°	1459.6	1460.2	1453.4	1439.9	1394.4	1324.3	1253.6	1249.3	1250.5	1246.8	1244.4
32.5°	1542.6	1545.0	1550.6	1540.7	1497.1	1418.4	1326.2	1329.2	1329.8	1327.4	1326.2
35°	1605.9	1611.4	1634.2	1642.8	1607.7	1529.7	1414.1	1427.6	1428.2	1420.8	1422.1
37.5°	1666.8	1668.0	1695.7	1715.3	1703.7	1641.6	1530.3	1546.9	1548.1	1540.7	1538.9
40°	1706.7	1712.9	1745.5	1765.1	1778.7	1743.6	1653.2	1682.1	1686.4	1680.3	1690.1
42.5°	1680.3	1682.8	1756.5	1813.1	1840.8	1851.8	1784.2	1846.3	1855.5	1853.1	1864.7
45°	1648.9	1650.2	1722.7	1830.9	1893.6	1955.7	1942.8	2036.3	2046.7	2045.5	2056.6
47.5°	1604.1	1611.4	1688.9	1820.5	1942.2	2051.6	2121.7	2186.3	2196.1	2198.6	2211.5
50°	1556.1	1568.4	1656.3	1804.5	1982.8	2152.5	2245.9	2291.4	2303.1	2312.3	2329.5
52.5°	1499.5	1510.6	1607.1	1775.6	2001.8	2261.3	2340.0	2388.6	2402.7	2412.5	2430.4
55°	1427.6	1441.1	1539.5	1726.4	2002.5	2324.6	2423.0	2466.0	2481.4	2496.2	2516.4
57.5°	1349.5	1365.5	1460.8	1650.2	1979.7	2330.8	2474.0	2514.0	2530.0	2545.3	2567.5
60°	1256.1	1273.9	1371.0	1552.4	1928.1	2314.8	2493.7	2574.2	2610.5	2637.6	2675.1
62.5°	1157.7	1170.6	1253.6	1444.8	1840.1	2321.5	2636.3	2766.7	2790.0	2827.5	2862.0
65°	1034.1	1048.9	1118.3	1301.6	1694.4	2341.2	2833.1	2988.0	3026.7	3052.6	3092.5
67.5°	889.0	903.2	955.4	1136.2	1525.4	2239.2	2930.8	3085.1	3130.0	3176.8	3235.8
70°	708.9	723.0	769.7	919.8	1282.5	1996.9	2916.1	3102.4	3179.8	3260.4	3358.1
72.5°	533.0	542.9	573.0	655.4	912.4	1618.2	2764.8	2984.9	3083.9	3167.5	3288.0
75°	357.8	363.4	402.7	459.9	534.9	1050.7	2312.9	2489.4	2614.8	2686.7	2775.9
77.5°	126.7	122.3	155.5	198.6	274.8	372.6	1472.5	1647.1	1808.8	1839.5	1854.9
80°	38.7	40.6	73.2	91.0	130.3	193.7	394.1	464.2	515.2	512.8	552.1
82.5°	30.1	32.0	51.6	55.9	51.0	73.2	188.7	209.0	220.7	218.3	221.3
85°	18.4	19.7	24.0	23.4	23.4	32.6	64.6	48.6	56.6	51.6	54.7
87.5°	10.5	10.5	10.5	10.5	8.6	7.4	13.5	6.8	6.8	6.1	6.1
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):**

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
0°	849.1	849.1	849.1	849.1	849.1	849.1	849.1	849.1	849.1	849.1	849.1
2.5°	841.7	842.3	842.3	842.3	842.3	842.3	842.3	841.7	841.7	841.7	841.7
5°	848.4	848.4	848.4	848.4	848.4	848.4	847.8	847.2	846.6	846.6	846.6
7.5°	862.0	860.7	860.1	860.1	860.1	860.1	859.5	858.9	857.7	857.7	858.3
10°	879.2	878.0	877.3	874.9	874.3	873.7	873.7	873.0	872.4	873.0	873.7
12.5°	905.0	905.6	903.2	900.1	898.9	896.4	896.4	896.4	896.4	897.6	899.5
15°	940.1	940.7	938.2	936.4	935.1	931.4	930.2	931.4	932.7	933.9	935.1
17.5°	979.4	979.4	976.9	975.7	974.5	972.0	972.6	972.6	972.0	972.6	973.9
20°	1018.7	1018.1	1018.1	1018.1	1018.1	1016.3	1018.1	1018.1	1016.9	1015.1	1015.1
22.5°	1061.8	1062.4	1063.6	1066.1	1064.9	1064.9	1064.9	1067.3	1066.7	1064.2	1064.2
25°	1114.7	1116.5	1119.0	1121.4	1120.8	1122.7	1122.7	1125.1	1123.9	1124.5	1128.2
27.5°	1178.6	1179.8	1181.7	1179.2	1183.5	1188.4	1188.4	1188.4	1195.8	1198.9	1203.2
30°	1248.7	1248.1	1249.9	1247.5	1251.8	1256.1	1260.4	1267.7	1275.7	1278.8	1286.8
32.5°	1326.8	1325.5	1326.8	1324.3	1324.9	1332.3	1345.8	1353.8	1360.0	1370.4	1380.3
35°	1427.6	1427.0	1429.4	1433.8	1435.6	1441.7	1462.0	1465.1	1481.7	1488.5	1501.4
37.5°	1550.6	1553.0	1559.8	1569.6	1571.5	1586.8	1598.5	1625.6	1640.9	1650.2	1660.6
40°	1700.6	1711.6	1725.8	1735.6	1749.2	1781.1	1805.1	1832.2	1853.7	1867.2	1885.0
42.5°	1883.2	1908.4	1925.6	1944.0	1973.6	2007.4	2045.5	2075.6	2101.4	2115.6	2140.2
45°	2073.8	2097.1	2118.7	2145.1	2172.1	2208.4	2244.1	2271.1	2292.0	2300.6	2307.4
47.5°	2225.0	2249.0	2273.0	2301.9	2335.1	2372.0	2401.5	2415.6	2422.4	2420.5	2417.5
50°	2347.4	2372.0	2402.1	2435.9	2468.5	2495.5	2510.9	2512.8	2512.8	2508.4	2502.9
52.5°	2452.5	2480.8	2514.0	2547.2	2568.7	2581.6	2589.0	2589.6	2589.6	2585.3	2579.2
55°	2538.6	2573.0	2604.4	2626.5	2641.9	2646.2	2649.9	2649.2	2647.4	2642.5	2636.3
57.5°	2595.1	2624.6	2659.1	2684.3	2707.6	2715.0	2726.7	2737.8	2751.9	2755.0	2766.1
60°	2703.3	2750.7	2781.4	2820.8	2854.6	2873.6	2897.0	2911.8	2925.9	2923.4	2919.8
62.5°	2887.8	2940.7	2982.5	3036.6	3071.6	3085.8	3100.5	3101.1	3099.9	3085.1	3072.2
65°	3134.3	3189.0	3231.5	3270.8	3291.1	3281.3	3277.0	3255.4	3233.9	3202.6	3174.3
67.5°	3292.3	3342.1	3379.0	3402.4	3417.1	3407.9	3394.4	3366.1	3332.3	3292.3	3253.6
70°	3422.7	3490.9	3530.9	3571.5	3617.6	3616.3	3599.1	3562.2	3510.0	3444.8	3385.2
72.5°	3358.7	3408.5	3431.3	3440.5	3430.7	3415.3	3387.0	3335.4	3297.3	3218.6	3182.3
75°	2844.8	2905.0	2923.4	2942.5	2935.7	2936.4	2904.4	2860.1	2835.5	2758.7	2740.2
77.5°	1997.5	2008.0	2047.3	2112.5	2137.7	2174.6	2161.1	2121.1	2063.9	1990.2	1963.7
80°	538.0	566.2	573.0	600.1	587.1	620.3	616.7	585.3	566.2	542.3	548.4
82.5°	220.1	228.7	223.2	221.3	233.6	229.9	229.9	227.5	220.7	221.9	219.5
85°	49.2	54.7	54.1	49.8	48.0	56.6	52.9	54.1	49.2	48.6	51.6
87.5°	6.1	6.1	6.1	6.1	5.5	6.1	5.5	5.5	5.5	5.5	5.5
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):**

	75°	85°	90°	95°	105°	115°	125°	135°	145°	155°	165°
0°	849.1	849.1	849.1	849.1	849.1	849.1	849.1	849.1	849.1	849.1	849.1
2.5°	842.3	841.1	839.8	849.1	849.7	852.7	857.1	865.0	868.7	873.7	881.0
5°	847.8	849.1	847.8	858.3	866.3	876.1	886.6	901.3	911.8	929.0	945.0
7.5°	860.1	861.4	863.2	871.8	889.0	911.8	940.7	973.3	994.8	1016.3	1034.7
10°	875.5	877.3	880.4	889.0	926.5	962.2	995.4	1019.4	1034.1	1058.7	1068.5
12.5°	899.5	901.9	911.2	927.8	973.9	996.6	1018.7	1034.7	1042.7	1064.2	1067.3
15°	933.9	943.7	961.0	976.9	1007.1	1016.9	1026.1	1030.4	1029.2	1041.5	1037.2
17.5°	972.0	992.3	1012.0	1019.4	1026.7	1024.3	1018.7	1006.5	990.5	991.1	983.7
20°	1014.4	1046.4	1053.2	1050.7	1036.0	1020.6	994.2	962.8	932.1	929.0	910.5
22.5°	1064.2	1096.2	1090.7	1077.8	1040.3	1006.5	957.9	908.1	861.4	845.4	823.9
25°	1130.6	1148.5	1133.7	1109.1	1046.4	989.2	913.6	839.8	772.2	735.3	707.7
27.5°	1206.3	1205.7	1181.1	1144.8	1053.8	962.2	858.9	755.6	659.1	606.2	569.3
30°	1291.7	1265.9	1231.5	1182.3	1056.9	926.5	791.3	659.1	538.6	472.2	451.3
32.5°	1377.2	1335.4	1285.0	1217.3	1053.2	886.6	716.9	546.6	415.6	383.0	372.6
35°	1496.5	1440.5	1371.7	1277.6	1046.4	831.8	616.7	407.0	335.1	310.5	304.9
37.5°	1660.0	1607.7	1511.8	1367.3	1046.4	755.0	476.5	306.2	255.8	227.5	237.9
40°	1885.6	1854.3	1721.5	1514.9	1052.6	660.9	322.8	223.2	168.5	164.8	201.0
42.5°	2137.7	2022.1	1863.5	1648.3	1062.4	530.6	209.0	154.9	142.6	154.9	187.5
45°	2300.0	2108.2	1934.8	1701.2	1068.5	377.5	151.2	142.0	135.9	147.6	178.3
47.5°	2405.2	2198.0	2000.0	1731.3	1018.1	254.5	140.2	136.5	131.0	142.6	175.2
50°	2493.1	2273.6	2053.5	1733.8	893.9	190.0	137.7	131.0	127.3	138.3	172.8
52.5°	2568.7	2342.4	2105.7	1717.2	795.0	167.8	132.8	126.0	123.0	134.0	167.2
55°	2627.1	2414.4	2150.0	1670.5	711.3	164.8	129.1	120.5	118.7	134.0	167.2
57.5°	2763.0	2499.2	2166.0	1637.9	619.7	159.9	125.4	115.6	116.8	135.9	174.0
60°	2909.9	2544.7	2156.8	1625.6	523.8	151.2	120.5	111.3	116.2	145.1	215.2
62.5°	3048.3	2558.2	2163.5	1620.0	418.1	138.3	113.1	108.2	115.0	160.5	257.0
65°	3138.6	2574.2	2142.0	1588.7	309.9	124.2	105.1	107.0	116.8	191.8	215.8
67.5°	3208.1	2546.0	2060.2	1476.2	233.0	110.7	94.7	100.8	119.9	176.5	186.9
70°	3306.5	2434.1	1896.1	1269.6	184.4	94.7	83.6	95.3	124.2	171.5	186.3
72.5°	3093.1	2153.1	1565.3	959.7	138.3	77.5	68.9	89.1	127.3	172.8	185.7
75°	2636.9	1664.3	1110.4	517.7	100.8	59.6	54.1	79.9	123.6	170.9	177.7
77.5°	1809.4	928.4	457.4	173.4	73.8	43.0	39.3	62.1	111.9	159.2	181.4
80°	484.5	232.4	170.9	117.4	51.6	31.4	28.9	40.0	89.8	140.2	173.4
82.5°	212.1	151.2	111.9	76.9	36.3	21.5	19.7	22.7	57.8	111.3	154.3
85°	46.1	33.8	27.1	20.9	14.8	11.1	10.5	13.5	22.7	65.2	113.1
87.5°	4.9	4.3	4.3	4.3	4.3	4.3	3.7	4.3	6.8	18.4	50.4
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):**

	175°	180°
0°	849.1	849.1
2.5°	891.5	892.1
5°	960.3	961.0
7.5°	1047.6	1050.7
10°	1077.2	1078.4
12.5°	1074.1	1074.1
15°	1039.7	1036.0
17.5°	985.5	980.6
20°	911.2	908.1
22.5°	813.4	808.5
25°	691.1	692.3
27.5°	558.9	549.0
30°	453.1	454.3
32.5°	387.3	389.8
35°	311.1	305.6
37.5°	248.4	244.1
40°	232.4	224.4
42.5°	206.6	204.1
45°	194.9	194.3
47.5°	195.5	196.7
50°	196.7	197.4
52.5°	185.1	184.4
55°	175.2	172.8
57.5°	189.4	187.5
60°	233.0	233.0
62.5°	234.9	226.9
65°	201.7	204.7
67.5°	173.4	171.5
70°	166.0	161.7
72.5°	155.5	150.6
75°	135.9	128.5
77.5°	129.7	116.2
80°	132.2	108.8
82.5°	131.6	95.9
85°	116.8	100.2
87.5°	70.7	68.2
90°	0.0	0.0

(END OF REPORT)