

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: P129495

Luminaire Tested: **VERD-A016-E-U-T3-7030-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P129495
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-A016-E-U-T3-7030-AP
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K LED AT 60% STANDARD LUMENS AND TYPE III OPTICS, GREY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3694 lumens
Efficiency: N/A
Efficacy: 102.6 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

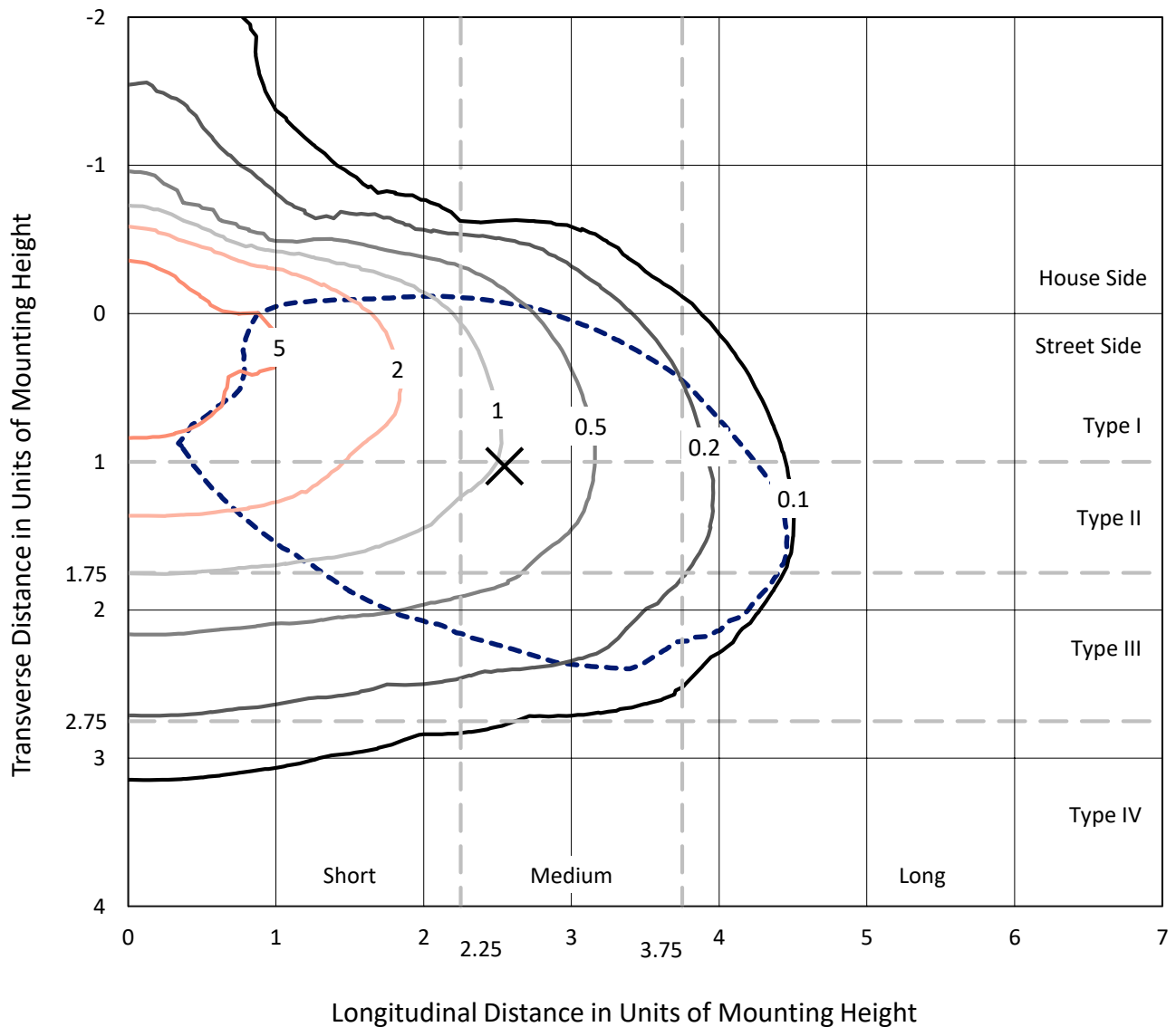
Input Watts (W): 36
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

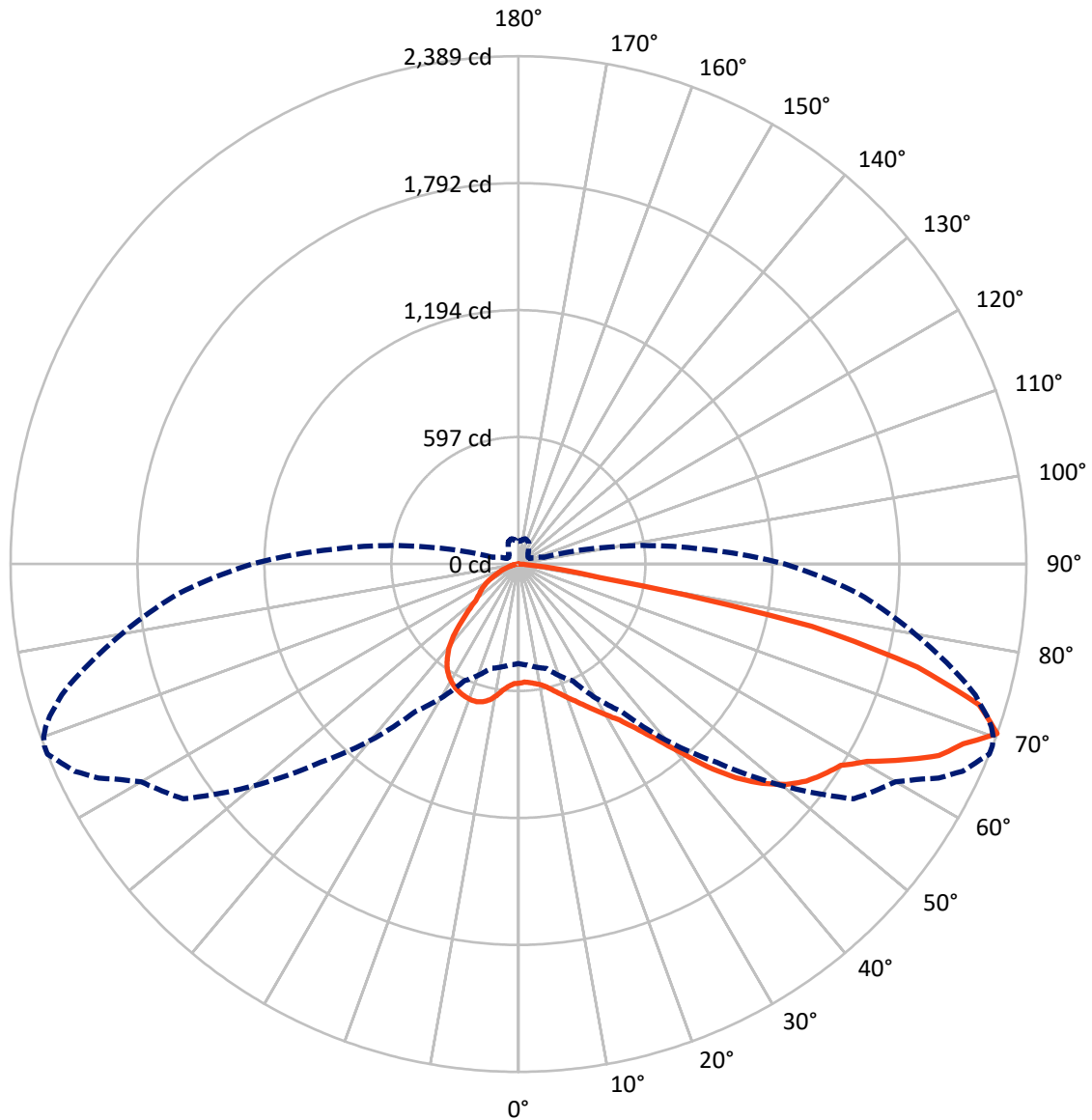


Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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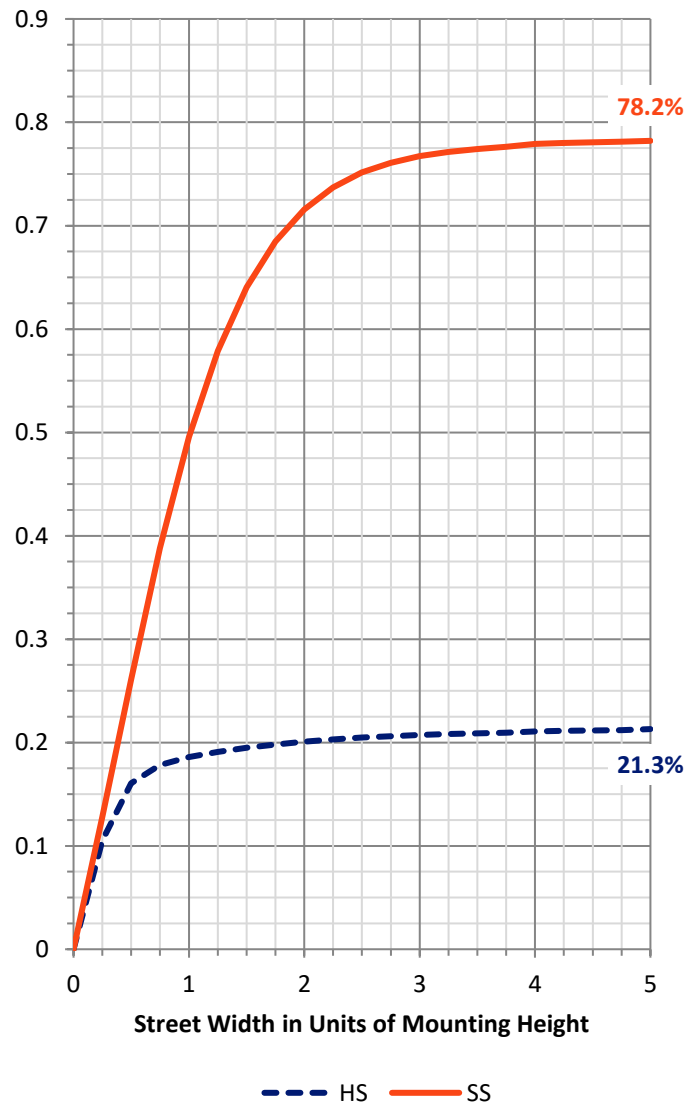
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	803.0	0.0	803.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	2891.0	0.0	2891.0
	% Fixture	78.3	0.0	78.3
Total	Lumens	3694.0	0.0	3694.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	1.5
10°-20°	186.3	5.0
20°-30°	314.3	8.5
30°-40°	446.6	12.1
40°-50°	613.0	16.6
50°-60°	739.5	20.0
60°-70°	797.5	21.6
70°-80°	498.4	13.5
80°-90°	41.3	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°	3694.0	100.0
0°-180°	3694.0	100.0



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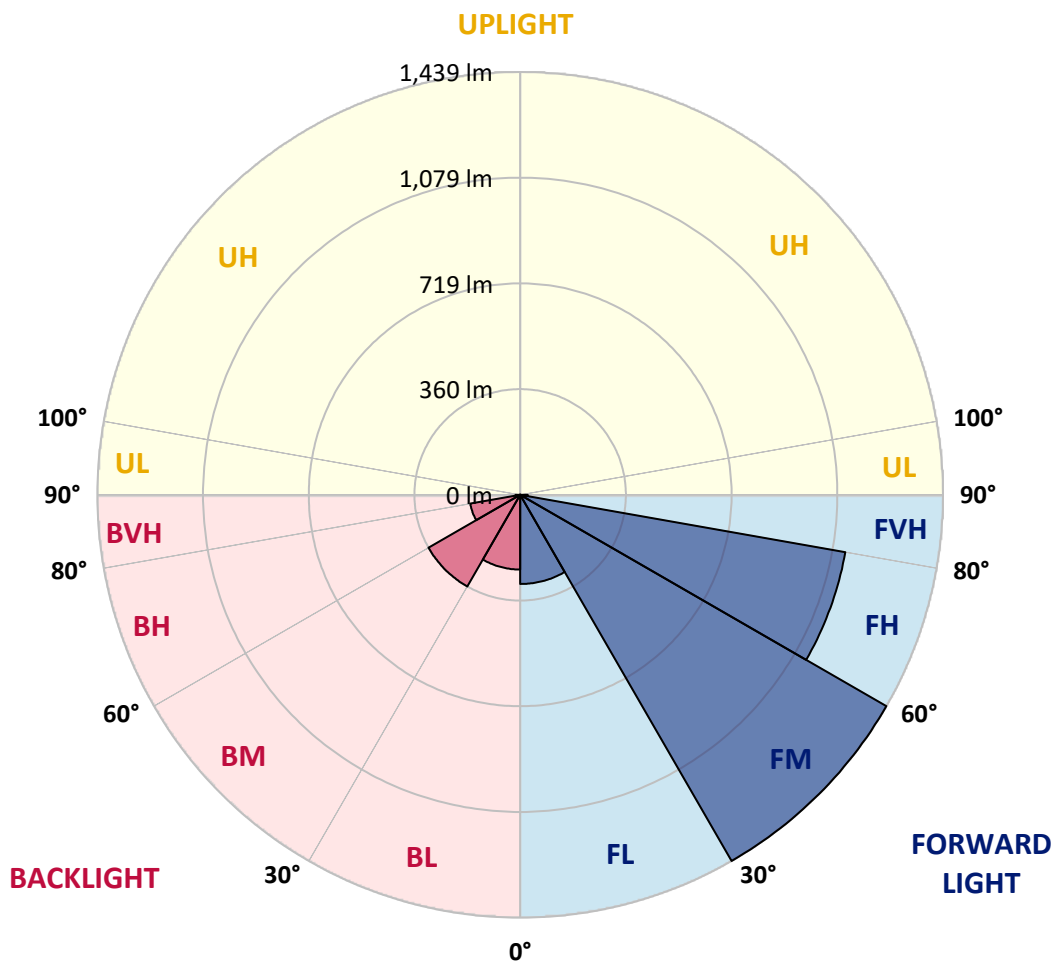
CATALOG NUMBER: VERD-A016-E-U-T3-7030-AP

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	303.4	8.2			
FM	(30°-60°)	1438.8	38.9			
FH	(60°-80°)	1123.4	30.4			G1/1800
FVH	(80°-90°)	25.4	0.7			G1/100
BL	(0°-30°)	254.3	6.9	B1/500		
BM	(30°-60°)	360.3	9.8	B1/1000		
BH	(60°-80°)	172.5	4.7	B1/500		G1/500
BVH	(80°-90°)	15.9	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°	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7
2.5°	565.1	564.7	566.0	559.9	558.6	559.1	559.9	556.6	556.2	556.2	555.8
5°	574.5	573.7	574.9	568.8	566.0	565.1	565.5	562.3	561.9	561.5	560.7
7.5°	591.1	589.1	589.9	583.8	578.9	576.1	574.5	571.6	571.6	570.8	570.0
10°	609.0	608.6	608.6	602.1	596.4	591.1	585.0	582.6	583.0	582.2	581.8
12.5°	630.9	630.9	632.1	625.2	622.8	615.5	604.1	601.7	600.9	600.1	598.8
15°	661.4	660.6	663.0	654.9	652.4	643.9	630.5	625.2	623.2	623.6	622.8
17.5°	700.7	698.3	696.3	686.5	683.7	670.7	656.1	650.8	648.8	649.2	648.0
20°	741.8	741.3	737.3	722.3	715.8	698.7	684.9	676.4	675.2	673.1	673.1
22.5°	789.3	790.9	784.8	767.3	754.7	733.2	715.0	706.0	703.6	703.2	701.6
25°	843.7	844.1	839.6	822.5	802.2	773.4	748.7	740.5	737.7	736.9	735.7
27.5°	902.1	905.4	898.5	884.7	858.3	820.9	786.4	780.7	779.9	777.5	776.3
30°	963.8	964.2	959.8	950.8	920.8	874.5	827.8	825.0	825.8	823.4	821.7
32.5°	1018.6	1020.3	1023.9	1017.4	988.6	936.6	875.7	877.8	878.2	876.5	875.7
35°	1060.5	1064.1	1079.1	1084.8	1061.7	1010.1	933.8	942.7	943.1	938.3	939.1
37.5°	1100.6	1101.5	1119.7	1132.7	1125.0	1084.0	1010.5	1021.5	1022.3	1017.4	1016.2
40°	1127.0	1131.1	1152.6	1165.6	1174.5	1151.4	1091.7	1110.8	1113.6	1109.6	1116.1
42.5°	1109.6	1111.2	1159.9	1197.3	1215.5	1222.9	1178.2	1219.2	1225.3	1223.7	1231.4
45°	1088.9	1089.7	1137.6	1209.0	1250.5	1291.5	1282.9	1344.7	1351.6	1350.7	1358.0
47.5°	1059.2	1064.1	1115.3	1202.1	1282.5	1354.8	1401.1	1443.7	1450.2	1451.8	1460.4
50°	1027.6	1035.7	1093.7	1191.6	1309.3	1421.4	1483.1	1513.1	1520.9	1526.9	1538.3
52.5°	990.2	997.5	1061.3	1172.5	1321.9	1493.2	1545.2	1577.3	1586.6	1593.1	1604.9
55°	942.7	951.6	1016.6	1140.0	1322.3	1535.1	1600.0	1628.4	1638.6	1648.3	1661.7
57.5°	891.2	901.7	964.6	1089.7	1307.3	1539.1	1633.7	1660.1	1670.7	1680.8	1695.4
60°	829.4	841.2	905.4	1025.1	1273.2	1528.6	1646.7	1699.9	1723.8	1741.7	1766.5
62.5°	764.5	773.0	827.8	954.1	1215.1	1533.0	1740.9	1827.0	1842.4	1867.2	1889.9
65°	682.9	692.6	738.5	859.5	1118.9	1546.0	1870.8	1973.1	1998.7	2015.8	2042.1
67.5°	587.1	596.4	630.9	750.3	1007.3	1478.6	1935.4	2037.3	2066.9	2097.8	2136.7
70°	468.1	477.4	508.3	607.4	846.9	1318.7	1925.6	2048.6	2099.8	2153.0	2217.5
72.5°	352.0	358.5	378.4	432.8	602.5	1068.6	1825.8	1971.1	2036.5	2091.7	2171.3
75°	236.3	239.9	265.9	303.7	353.2	693.8	1527.3	1643.9	1726.7	1774.2	1833.1
77.5°	83.6	80.8	102.7	131.1	181.5	246.0	972.4	1087.7	1194.4	1214.7	1224.9
80°	25.6	26.8	48.3	60.1	86.1	127.9	260.2	306.5	340.2	338.6	364.6
82.5°	19.9	21.1	34.1	36.9	33.7	48.3	124.6	138.0	145.8	144.1	146.2
85°	12.2	13.0	15.8	15.4	15.4	21.5	42.6	32.1	37.4	34.1	36.1
87.5°	6.9	6.9	6.9	6.9	5.7	4.9	8.9	4.5	4.5	4.1	4.1
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°	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7
2.5°	555.8	556.2	556.2	556.2	556.2	556.2	556.2	555.8	555.8	555.8	555.8
5°	560.3	560.3	560.3	560.3	560.3	560.3	559.9	559.5	559.1	559.1	559.1
7.5°	569.2	568.4	568.0	568.0	568.0	568.0	567.6	567.2	566.4	566.4	566.8
10°	580.6	579.8	579.4	577.7	577.3	576.9	576.9	576.5	576.1	576.5	576.9
12.5°	597.6	598.0	596.4	594.4	593.6	591.9	591.9	591.9	591.9	592.8	594.0
15°	620.8	621.2	619.5	618.3	617.5	615.1	614.3	615.1	615.9	616.7	617.5
17.5°	646.7	646.7	645.1	644.3	643.5	641.9	642.3	642.3	641.9	642.3	643.1
20°	672.7	672.3	672.3	672.3	672.3	671.1	672.3	672.3	671.5	670.3	670.3
22.5°	701.2	701.6	702.4	704.0	703.2	703.2	703.2	704.8	704.4	702.8	702.8
25°	736.1	737.3	738.9	740.5	740.1	741.3	741.3	743.0	742.2	742.6	745.0
27.5°	778.3	779.1	780.3	778.7	781.5	784.8	784.8	784.8	789.7	791.7	794.5
30°	824.6	824.2	825.4	823.8	826.6	829.4	832.3	837.2	842.4	844.5	849.7
32.5°	876.1	875.3	876.1	874.5	874.9	879.8	888.7	894.0	898.1	905.0	911.5
35°	942.7	942.3	943.9	946.8	948.0	952.1	965.5	967.5	978.4	982.9	991.4
37.5°	1023.9	1025.5	1030.0	1036.5	1037.7	1047.9	1055.6	1073.4	1083.6	1089.7	1096.6
40°	1123.0	1130.3	1139.6	1146.1	1155.1	1176.2	1192.0	1209.9	1224.1	1233.0	1244.8
42.5°	1243.6	1260.2	1271.6	1283.8	1303.2	1325.6	1350.7	1370.6	1387.7	1397.0	1413.3
45°	1369.4	1384.8	1399.1	1416.5	1434.4	1458.3	1481.9	1499.7	1513.5	1519.2	1523.7
47.5°	1469.3	1485.1	1501.0	1520.0	1542.0	1566.3	1585.8	1595.1	1599.6	1598.4	1596.4
50°	1550.1	1566.3	1586.2	1608.5	1630.1	1647.9	1658.1	1659.3	1659.3	1656.5	1652.8
52.5°	1619.5	1638.2	1660.1	1682.0	1696.2	1704.8	1709.6	1710.0	1710.0	1707.2	1703.1
55°	1676.3	1699.1	1719.8	1734.4	1744.6	1747.4	1749.8	1749.4	1748.2	1745.0	1740.9
57.5°	1713.7	1733.2	1755.9	1772.6	1788.0	1792.9	1800.6	1807.9	1817.2	1819.3	1826.6
60°	1785.2	1816.4	1836.7	1862.7	1885.0	1897.6	1913.0	1922.8	1932.1	1930.5	1928.1
62.5°	1907.0	1941.9	1969.5	2005.2	2028.3	2037.7	2047.4	2047.8	2047.0	2037.3	2028.8
65°	2069.8	2105.9	2133.9	2159.9	2173.3	2166.8	2163.9	2149.7	2135.5	2114.8	2096.1
67.5°	2174.1	2207.0	2231.3	2246.8	2256.5	2250.4	2241.5	2222.8	2200.5	2174.1	2148.5
70°	2260.2	2305.2	2331.6	2358.4	2388.9	2388.1	2376.7	2352.3	2317.8	2274.8	2235.4
72.5°	2217.9	2250.8	2265.9	2271.9	2265.4	2255.3	2236.6	2202.5	2177.3	2125.4	2101.4
75°	1878.5	1918.3	1930.5	1943.1	1938.6	1939.0	1917.9	1888.7	1872.4	1821.7	1809.5
77.5°	1319.1	1326.0	1352.0	1395.0	1411.6	1436.0	1427.1	1400.7	1362.9	1314.2	1296.7
80°	355.2	373.9	378.4	396.2	387.7	409.6	407.2	386.5	373.9	358.1	362.1
82.5°	145.3	151.0	147.4	146.2	154.3	151.8	151.8	150.2	145.8	146.6	144.9
85°	32.5	36.1	35.7	32.9	31.7	37.4	34.9	35.7	32.5	32.1	34.1
87.5°	4.1	4.1	4.1	4.1	3.7	4.1	3.7	3.7	3.7	3.7	3.7
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):

	75°	85°	90°	95°	105°	115°	125°	135°	145°	155°	165°
0°	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7
2.5°	556.2	555.4	554.6	560.7	561.1	563.1	566.0	571.2	573.7	576.9	581.8
5°	559.9	560.7	559.9	566.8	572.0	578.5	585.4	595.2	602.1	613.5	624.0
7.5°	568.0	568.8	570.0	575.7	587.1	602.1	621.2	642.7	656.9	671.1	683.3
10°	578.1	579.4	581.4	587.1	611.8	635.4	657.3	673.1	682.9	699.1	705.6
12.5°	594.0	595.6	601.7	612.6	643.1	658.1	672.7	683.3	688.6	702.8	704.8
15°	616.7	623.2	634.6	645.1	665.0	671.5	677.6	680.4	679.6	687.8	684.9
17.5°	641.9	655.3	668.3	673.1	678.0	676.4	672.7	664.6	654.1	654.5	649.6
20°	669.9	691.0	695.5	693.8	684.1	673.9	656.5	635.8	615.5	613.5	601.3
22.5°	702.8	723.9	720.2	711.7	686.9	664.6	632.5	599.7	568.8	558.2	544.0
25°	746.6	758.4	748.7	732.4	691.0	653.2	603.3	554.6	509.9	485.6	467.3
27.5°	796.6	796.2	779.9	756.0	695.9	635.4	567.2	499.0	435.2	400.3	376.0
30°	853.0	835.9	813.2	780.7	697.9	611.8	522.5	435.2	355.7	311.8	298.0
32.5°	909.4	881.8	848.5	803.9	695.5	585.4	473.4	360.9	274.5	252.9	246.0
35°	988.2	951.2	905.8	843.7	691.0	549.3	407.2	268.8	221.3	205.0	201.4
37.5°	1096.2	1061.7	998.3	902.9	691.0	498.6	314.6	202.2	168.9	150.2	157.1
40°	1245.2	1224.5	1136.8	1000.4	695.1	436.4	213.1	147.4	111.2	108.8	132.8
42.5°	1411.6	1335.3	1230.6	1088.5	701.6	350.4	138.0	102.3	94.2	102.3	123.8
45°	1518.8	1392.2	1277.7	1123.4	705.6	249.3	99.9	93.8	89.7	97.4	117.7
47.5°	1588.2	1451.4	1320.7	1143.3	672.3	168.1	92.6	90.1	86.5	94.2	115.7
50°	1646.3	1501.4	1356.0	1144.9	590.3	125.5	90.9	86.5	84.0	91.3	114.1
52.5°	1696.2	1546.8	1390.5	1133.9	524.9	110.8	87.7	83.2	81.2	88.5	110.4
55°	1734.8	1594.3	1419.8	1103.1	469.7	108.8	85.3	79.6	78.4	88.5	110.4
57.5°	1824.5	1650.4	1430.3	1081.6	409.2	105.6	82.8	76.3	77.1	89.7	114.9
60°	1921.6	1680.4	1424.2	1073.4	345.9	99.9	79.6	73.5	76.7	95.8	142.1
62.5°	2012.9	1689.3	1428.7	1069.8	276.1	91.3	74.7	71.5	75.9	106.0	169.7
65°	2072.6	1699.9	1414.5	1049.1	204.6	82.0	69.4	70.6	77.1	126.7	142.5
67.5°	2118.5	1681.2	1360.5	974.8	153.9	73.1	62.5	66.6	79.2	116.5	123.4
70°	2183.4	1607.3	1252.1	838.4	121.8	62.5	55.2	62.9	82.0	113.3	123.0
72.5°	2042.6	1421.8	1033.7	633.8	91.3	51.2	45.5	58.9	84.0	114.1	122.6
75°	1741.3	1099.0	733.2	341.8	66.6	39.4	35.7	52.8	81.6	112.9	117.3
77.5°	1194.8	613.1	302.1	114.5	48.7	28.4	26.0	41.0	73.9	105.2	119.8
80°	319.9	153.5	112.9	77.5	34.1	20.7	19.1	26.4	59.3	92.6	114.5
82.5°	140.1	99.9	73.9	50.7	24.0	14.2	13.0	15.0	38.2	73.5	101.9
85°	30.4	22.3	17.9	13.8	9.7	7.3	6.9	8.9	15.0	43.0	74.7
87.5°	3.2	2.8	2.8	2.8	2.8	2.8	2.4	2.8	4.5	12.2	33.3
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):

	175°	180°
0°	560.7	560.7
2.5°	588.7	589.1
5°	634.2	634.6
7.5°	691.8	693.8
10°	711.3	712.1
12.5°	709.3	709.3
15°	686.5	684.1
17.5°	650.8	647.6
20°	601.7	599.7
22.5°	537.1	533.9
25°	456.3	457.1
27.5°	369.0	362.6
30°	299.2	300.0
32.5°	255.8	257.4
35°	205.4	201.8
37.5°	164.0	161.2
40°	153.5	148.2
42.5°	136.4	134.8
45°	128.7	128.3
47.5°	129.1	129.9
50°	129.9	130.3
52.5°	122.2	121.8
55°	115.7	114.1
57.5°	125.0	123.8
60°	153.9	153.9
62.5°	155.1	149.8
65°	133.2	135.2
67.5°	114.5	113.3
70°	109.6	106.8
72.5°	102.7	99.5
75°	89.7	84.9
77.5°	85.7	76.7
80°	87.3	71.9
82.5°	86.9	63.3
85°	77.1	66.2
87.5°	46.7	45.1
90°	0.0	0.0

(END OF REPORT)