

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: P179077

Luminaire Tested: **VERD-A018-E-U-T4-7030-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26294)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-A018-E-U-T4-7030-AP
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K LED AT 80% STANDARD LUMENS AND TYPE IV OPTICS, GREY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4742 lumens
Efficiency: N/A
Efficacy: 93.0 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 - G2

Input Watts (W): 51
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

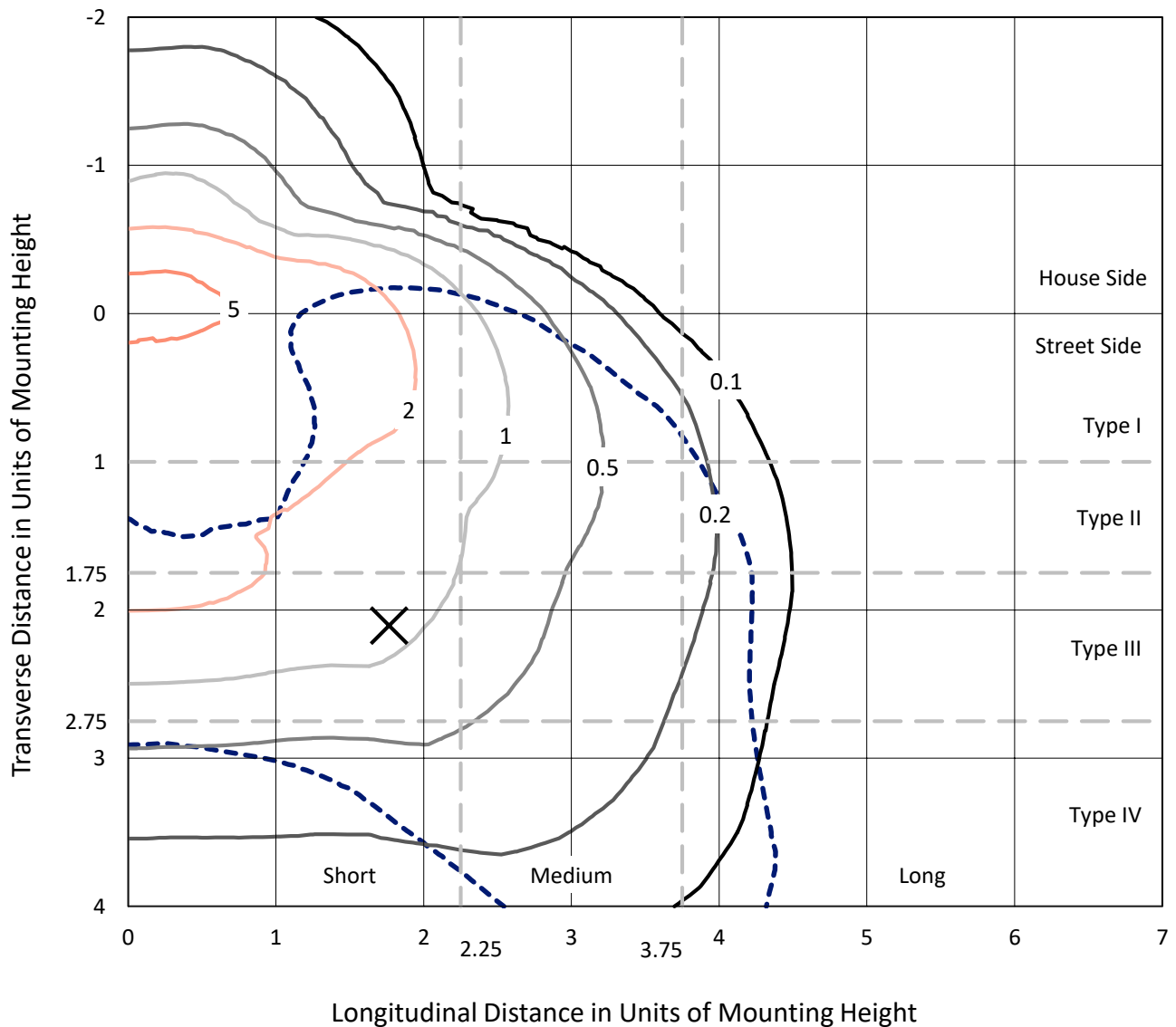


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

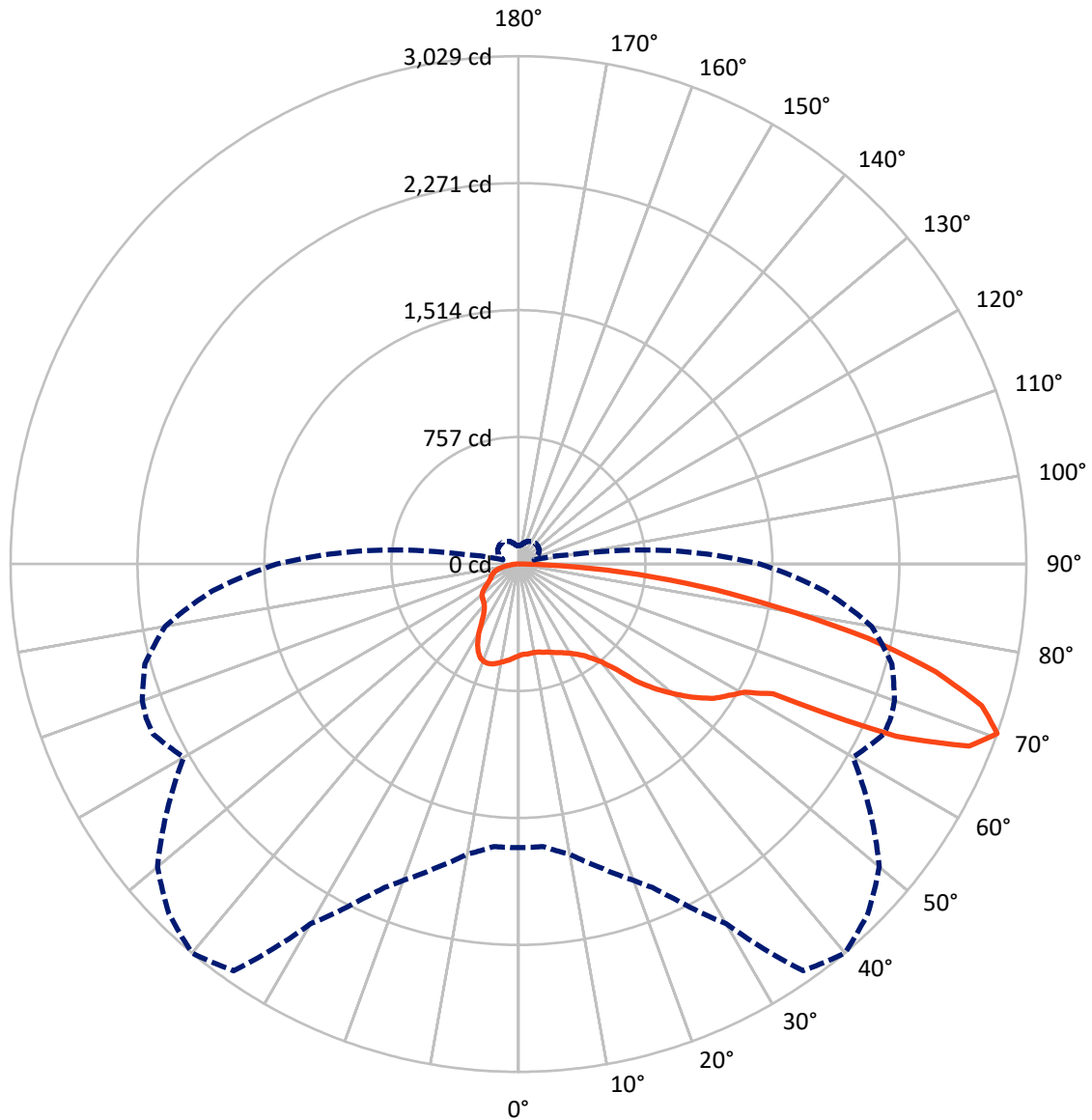


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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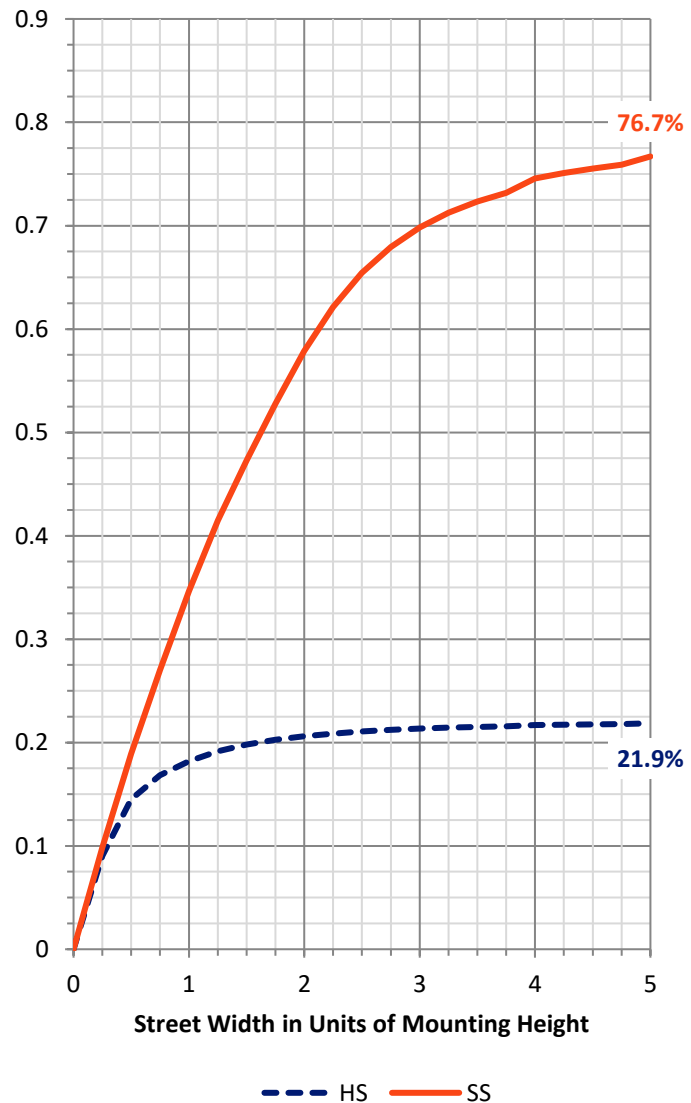
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1050.5	0.0	1050.5
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	3691.5	0.0	3691.5
	% Fixture	77.8	0.0	77.8
Total	Lumens	4742.0	0.0	4742.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	1.1
10°-20°	166.1	3.5
20°-30°	278.1	5.9
30°-40°	392.0	8.3
40°-50°	613.9	12.9
50°-60°	897.9	18.9
60°-70°	1245.3	26.3
70°-80°	933.1	19.7
80°-90°	162.4	3.4
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°	4742.0	100.0
0°-180°	4742.0	100.0



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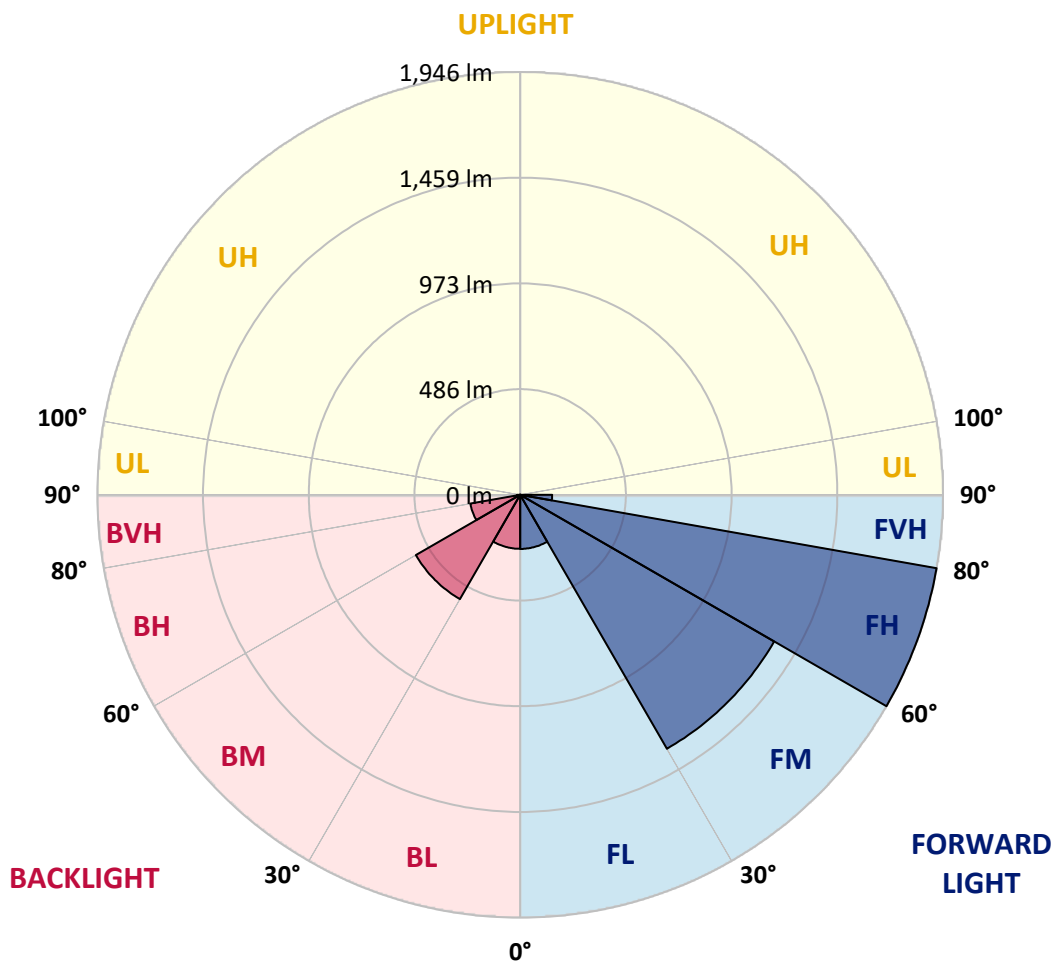
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	248.9	5.2			
FM (30°-60°)	1349.5	28.5			
FH (60°-80°)	1945.6	41.0			G2/5000
FVH (80°-90°)	147.5	3.1			G2/225
BL (0°-30°)	248.4	5.2	B1/500		
BM (30°-60°)	554.3	11.7	B1/1000		
BH (60°-80°)	232.8	4.9	B1/500		G1/500
BVH (80°-90°)	14.9	0.3			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1
2.5°	541.9	541.4	538.8	537.7	534.6	536.1	539.3	541.9	540.9	539.3	540.3
5°	540.3	539.3	537.2	535.6	532.5	533.0	536.1	537.7	539.8	539.3	540.3
7.5°	533.5	532.5	529.3	528.8	526.2	526.7	528.3	530.9	535.1	537.2	537.7
10°	529.3	527.2	524.6	524.6	522.0	522.5	524.1	526.7	531.9	535.6	537.2
12.5°	527.2	525.6	524.1	524.6	523.0	524.1	525.6	528.8	534.0	538.8	539.8
15°	530.9	530.9	528.8	529.8	529.8	531.9	533.5	535.6	539.8	545.6	549.3
17.5°	540.9	541.4	539.3	541.4	541.4	543.0	544.5	545.6	547.2	552.4	558.7
20°	545.1	546.6	546.1	549.8	552.4	554.0	555.0	557.1	557.6	561.3	567.1
22.5°	556.6	555.5	555.5	560.8	560.8	562.9	564.5	565.5	568.1	573.9	578.1
25°	569.2	567.6	568.1	572.3	571.3	571.8	573.4	575.5	578.1	585.5	593.3
27.5°	577.6	577.1	577.6	580.7	583.4	584.4	586.0	588.1	593.8	600.1	609.1
30°	595.9	595.9	591.2	593.3	594.9	595.9	598.6	604.3	611.2	618.5	627.4
32.5°	626.4	626.9	620.6	618.5	616.4	615.9	617.5	627.4	632.1	641.1	650.5
35°	657.8	653.1	650.0	653.1	654.2	653.1	653.6	659.4	662.6	670.4	678.8
37.5°	742.3	730.8	725.5	722.9	710.3	700.9	697.7	699.8	702.4	712.9	721.8
40°	865.1	865.1	851.4	843.6	822.6	807.4	796.3	776.4	764.9	768.5	776.9
42.5°	998.3	991.5	983.1	964.2	950.6	931.7	918.0	889.2	868.7	860.3	844.6
45°	1103.8	1108.0	1111.1	1095.9	1084.9	1076.5	1069.7	1057.1	1031.4	1007.2	973.7
47.5°	1202.9	1207.6	1207.1	1173.5	1181.9	1183.0	1181.4	1167.2	1140.0	1116.3	1077.5
50°	1301.0	1311.0	1299.4	1244.3	1256.9	1260.1	1260.6	1249.1	1228.6	1220.7	1202.4
52.5°	1422.7	1413.8	1361.3	1327.2	1320.4	1322.5	1322.0	1319.9	1320.9	1323.0	1318.8
55°	1562.8	1492.0	1423.8	1405.9	1393.9	1385.5	1379.7	1370.2	1376.0	1414.3	1412.7
57.5°	1582.7	1580.1	1576.4	1503.0	1482.5	1476.7	1465.2	1456.8	1428.0	1478.3	1500.9
60°	1896.9	1927.9	1893.3	1868.6	1824.0	1759.0	1680.8	1593.2	1507.7	1550.2	1583.8
62.5°	2237.9	2237.9	2278.9	2251.6	2223.2	2169.7	2140.9	2028.1	1866.0	1703.4	1707.6
65°	2274.1	2287.8	2320.8	2385.9	2413.7	2428.4	2448.3	2437.8	2462.5	2478.2	2195.4
67.5°	2044.9	2061.7	2104.2	2204.4	2302.5	2350.7	2407.4	2529.6	2754.7	2898.4	2860.6
70°	1690.8	1691.3	1756.4	1871.8	2007.6	2087.9	2202.3	2476.6	2960.8	3028.5	2947.7
72.5°	1252.2	1251.7	1321.5	1424.3	1560.7	1674.5	1791.5	2189.1	2812.9	2890.0	2855.4
75°	882.4	886.6	944.3	1038.2	1157.8	1249.1	1360.8	1781.5	2379.1	2570.0	2624.6
77.5°	615.4	630.0	666.2	744.4	845.1	918.6	1005.7	1357.1	1873.9	2134.6	2218.0
80°	391.3	404.5	437.0	506.2	594.4	659.4	728.1	991.5	1394.4	1562.8	1639.4
82.5°	223.5	232.4	261.2	316.3	383.5	434.9	487.9	666.8	988.3	1095.4	1074.9
85°	109.6	115.4	134.3	171.5	222.4	259.2	296.4	403.4	563.9	624.8	593.8
87.5°	29.4	31.5	39.3	56.1	76.6	91.8	105.4	149.5	184.7	160.0	119.6
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1
2.5°	539.3	536.7	538.2	538.8	538.8	540.3	541.9	543.0	540.9	546.1	544.0
5°	539.8	537.2	540.9	542.4	542.4	543.5	546.6	547.7	548.7	552.4	551.4
7.5°	538.8	539.8	544.0	547.7	548.2	548.7	554.5	554.5	559.7	560.3	561.3
10°	539.8	544.0	548.7	555.5	557.1	557.6	562.9	566.0	572.3	570.2	575.0
12.5°	544.5	551.9	557.1	567.1	570.8	572.3	579.7	586.5	593.8	591.7	595.9
15°	553.5	562.9	570.8	582.8	587.5	591.2	601.2	612.2	618.0	619.5	625.8
17.5°	563.4	574.4	584.9	597.5	604.3	609.6	621.1	635.8	641.6	647.9	654.7
20°	572.9	585.5	595.4	609.1	617.5	624.8	640.5	656.3	665.2	675.7	683.6
22.5°	583.4	595.4	606.4	620.6	630.6	640.5	661.0	677.3	691.4	704.0	714.5
25°	600.1	609.1	622.2	636.9	648.9	662.0	683.0	700.9	720.3	735.0	747.0
27.5°	618.0	625.3	640.0	658.4	671.0	684.1	704.0	726.6	750.2	770.1	786.4
30°	636.3	646.8	665.2	684.1	696.1	708.7	730.2	759.6	788.5	814.7	828.9
32.5°	658.9	673.6	696.1	716.1	726.6	738.1	763.8	797.9	838.8	867.2	868.7
35°	691.4	709.3	732.9	753.8	763.8	776.4	806.8	847.7	899.7	922.8	911.2
37.5°	735.0	757.0	779.6	802.6	814.2	829.4	865.1	924.9	982.6	993.1	963.2
40°	793.7	815.2	840.9	867.7	885.0	905.5	952.7	1048.1	1100.1	1085.9	1035.0
42.5°	857.2	887.6	919.1	957.4	982.6	1004.1	1076.5	1189.8	1217.6	1191.4	1114.2
45°	962.1	979.4	1010.9	1056.5	1085.4	1120.5	1224.4	1341.9	1357.7	1305.2	1200.3
47.5°	1063.4	1061.8	1092.7	1157.3	1198.7	1253.3	1385.5	1495.6	1494.1	1427.4	1294.2
50°	1185.6	1184.5	1199.2	1277.9	1336.7	1401.2	1567.5	1648.3	1621.5	1536.0	1383.9
52.5°	1303.6	1314.6	1344.0	1408.0	1467.8	1550.7	1723.3	1770.5	1740.1	1634.6	1459.4
55°	1413.3	1436.3	1475.7	1558.1	1634.1	1739.0	1874.9	1894.3	1841.9	1711.2	1514.0
57.5°	1518.2	1550.2	1604.7	1717.0	1825.6	1921.6	2004.0	2001.9	1924.2	1770.0	1549.1
60°	1616.3	1664.0	1734.3	1878.6	2001.9	2074.8	2128.8	2096.8	1987.7	1807.8	1561.2
62.5°	1729.6	1779.4	1860.2	2053.8	2161.9	2211.7	2227.4	2162.9	2023.4	1815.1	1540.7
65°	1944.7	1960.4	2020.8	2226.9	2297.2	2316.1	2290.9	2191.8	2030.2	1791.0	1464.7
67.5°	2640.3	2252.6	2180.2	2359.1	2384.8	2375.9	2316.1	2191.2	1991.9	1693.4	1281.6
70°	2809.7	2556.4	2303.5	2403.2	2402.7	2386.4	2306.1	2138.3	1831.4	1438.4	916.5
72.5°	2743.1	2502.9	2288.8	2358.6	2377.0	2377.5	2211.7	1920.0	1482.5	979.4	424.4
75°	2568.4	2343.9	2254.2	2247.9	2214.9	2121.5	1834.0	1445.3	899.7	390.3	63.0
77.5°	2173.9	1963.6	1810.9	1657.7	1574.3	1441.6	1076.5	648.4	295.9	47.2	40.4
80°	1537.6	1257.5	932.7	708.2	597.0	408.7	140.1	51.4	42.5	29.9	25.7
82.5°	910.2	620.1	271.7	63.0	48.3	44.6	37.2	32.0	27.3	18.4	16.3
85°	464.3	245.5	35.7	29.4	27.8	26.2	22.6	19.9	15.2	10.0	11.0
87.5°	62.4	18.9	10.5	10.5	10.0	10.0	9.4	7.3	4.7	3.1	3.1
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1
2.5°	544.0	545.6	547.2	548.2	549.3	549.8	551.4	551.4	553.5	556.1	558.2
5°	551.4	555.0	555.0	556.1	559.2	559.2	562.4	561.8	565.5	569.7	570.2
7.5°	562.4	567.6	566.6	567.6	571.3	572.3	574.4	572.9	578.1	581.3	581.8
10°	577.6	580.7	581.8	583.4	586.5	589.1	589.6	588.1	592.3	592.3	592.8
12.5°	602.8	603.8	607.5	608.0	608.0	612.2	610.1	608.0	608.5	604.9	602.2
15°	633.2	632.7	638.4	637.9	635.8	637.9	633.2	629.0	624.8	615.4	607.5
17.5°	662.0	662.6	666.8	665.2	663.6	661.5	655.2	647.4	635.8	620.1	606.4
20°	690.9	691.4	690.9	689.3	687.2	677.3	667.8	655.2	639.0	616.9	598.0
22.5°	720.8	720.8	715.6	712.4	708.2	690.9	675.7	656.8	632.7	604.3	578.1
25°	752.3	752.8	740.7	733.9	726.6	699.8	676.2	647.9	613.3	576.5	544.0
27.5°	788.5	779.6	759.1	747.0	732.9	697.2	661.5	625.3	581.8	536.1	494.2
30°	819.4	797.4	765.4	747.0	725.5	682.0	633.2	584.9	534.0	481.6	430.2
32.5°	846.2	808.9	762.2	736.5	707.7	652.1	595.4	532.5	474.2	415.0	374.0
35°	871.4	817.3	756.5	723.4	686.7	615.9	547.7	476.3	415.5	366.2	331.5
37.5°	902.8	826.2	746.0	704.5	660.5	577.6	502.6	432.8	378.2	338.4	315.8
40°	943.2	836.7	731.3	679.9	627.4	535.1	453.8	390.3	347.8	319.0	309.0
42.5°	991.5	848.3	708.2	644.2	583.4	481.6	401.8	351.5	322.6	308.5	302.7
45°	1042.4	860.3	680.4	603.3	534.0	428.1	356.7	319.0	304.8	300.1	296.9
47.5°	1102.7	876.6	647.9	555.5	479.0	375.1	318.4	293.3	293.3	293.8	293.3
50°	1164.6	892.9	615.9	504.7	418.6	323.2	287.0	278.0	281.2	285.4	287.0
52.5°	1217.1	907.6	605.4	484.7	366.2	278.0	260.7	260.2	264.4	269.6	271.2
55°	1245.4	910.2	614.3	481.6	354.6	247.6	234.5	238.2	242.4	248.1	248.1
57.5°	1261.1	890.2	570.2	412.3	306.9	220.9	209.8	215.1	216.7	221.9	225.1
60°	1240.7	847.2	422.3	288.5	226.6	188.9	185.2	193.1	196.2	202.5	206.2
62.5°	1184.5	732.9	264.9	186.8	168.4	165.2	168.9	176.3	182.6	188.9	192.0
65°	1051.3	488.4	147.4	146.4	150.0	153.2	163.1	170.0	175.7	181.5	180.5
67.5°	755.9	182.6	122.8	129.1	135.3	146.9	157.4	166.3	168.4	171.5	171.5
70°	319.0	96.0	109.6	117.5	129.1	141.1	151.6	153.7	159.0	159.0	160.0
72.5°	71.9	78.2	94.4	105.4	118.0	129.1	138.5	143.2	144.8	152.1	150.6
75°	56.7	64.5	83.9	93.4	100.2	109.6	120.7	125.4	130.1	135.3	139.0
77.5°	40.9	50.9	69.2	75.5	82.4	92.9	98.1	105.4	109.6	112.8	113.3
80°	28.9	40.9	53.5	57.2	61.4	63.0	68.7	80.3	83.4	88.7	90.2
82.5°	21.5	28.3	32.0	33.0	34.1	38.8	39.9	46.2	49.3	57.7	62.4
85°	15.7	16.3	12.6	12.1	12.1	14.7	16.8	22.0	26.8	32.5	35.7
87.5°	3.7	4.2	4.7	5.2	5.8	7.3	10.0	15.2	22.0	28.3	29.9
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1
2.5°	558.7	562.9	563.9	564.5	566.6	567.1	567.6	568.1
5°	570.8	576.0	577.1	577.6	580.7	581.3	581.3	582.3
7.5°	581.8	586.0	587.0	587.5	590.2	591.7	591.7	592.8
10°	591.7	593.3	592.8	592.8	595.4	595.4	595.4	595.4
12.5°	598.6	596.5	593.8	592.3	590.7	588.1	586.5	584.9
15°	599.1	591.2	586.0	582.3	576.5	568.7	563.9	559.7
17.5°	590.7	577.1	569.7	562.9	550.3	537.7	528.8	521.5
20°	573.4	550.3	540.3	530.4	511.0	493.1	482.1	474.2
22.5°	544.5	512.0	497.3	485.3	460.1	439.6	428.1	420.7
25°	504.1	461.6	442.2	424.9	402.4	386.6	377.2	370.9
27.5°	445.9	405.0	389.8	376.7	356.7	342.6	332.6	328.9
30°	389.8	359.3	347.8	337.3	321.1	307.4	296.9	292.2
32.5°	342.6	323.2	315.3	308.5	296.4	282.8	271.7	267.5
35°	311.1	300.1	294.8	289.6	277.5	264.4	251.3	245.5
37.5°	304.8	296.9	292.7	288.5	278.6	262.3	247.1	240.8
40°	302.2	295.9	293.8	291.2	279.6	264.9	248.1	240.8
42.5°	299.5	297.4	294.3	290.1	277.5	263.3	249.7	241.8
45°	296.9	294.8	290.6	286.4	273.8	258.1	245.0	237.1
47.5°	292.7	288.0	283.3	278.6	266.5	250.2	235.0	228.2
50°	280.7	273.3	270.2	263.9	250.2	234.0	219.8	215.6
52.5°	263.3	254.4	251.3	244.5	230.3	213.0	199.3	194.1
55°	243.4	237.1	235.0	229.2	215.6	197.8	186.2	181.0
57.5°	227.2	225.6	225.1	222.4	210.9	196.2	187.3	183.6
60°	208.8	208.8	210.9	213.0	204.6	187.8	176.3	173.1
62.5°	192.0	189.9	190.4	190.4	182.0	167.9	158.4	153.7
65°	176.8	172.1	171.0	167.3	156.9	142.2	132.7	130.6
67.5°	166.3	160.0	157.9	154.8	143.7	130.6	121.7	118.6
70°	155.3	147.9	145.8	142.2	131.1	118.6	111.2	108.6
72.5°	144.8	135.9	134.3	131.1	119.6	108.6	99.7	96.0
75°	132.7	118.0	112.8	106.5	92.3	79.7	72.4	69.8
77.5°	107.0	102.8	99.1	94.4	80.8	68.2	61.4	58.2
80°	87.1	85.5	83.4	81.3	67.1	54.0	36.7	32.5
82.5°	63.0	60.3	62.4	64.0	51.9	32.0	25.2	22.6
85°	35.1	33.0	32.5	35.7	29.4	22.6	16.3	14.2
87.5°	30.4	28.3	26.8	25.2	17.8	15.2	12.6	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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