

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: P179087

Luminaire Tested: **VERD-A018-E-U-T4-7060-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179087
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-T4-7060-AP
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K 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: 4846 lumens
Efficiency: N/A
Efficacy: 95.0 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

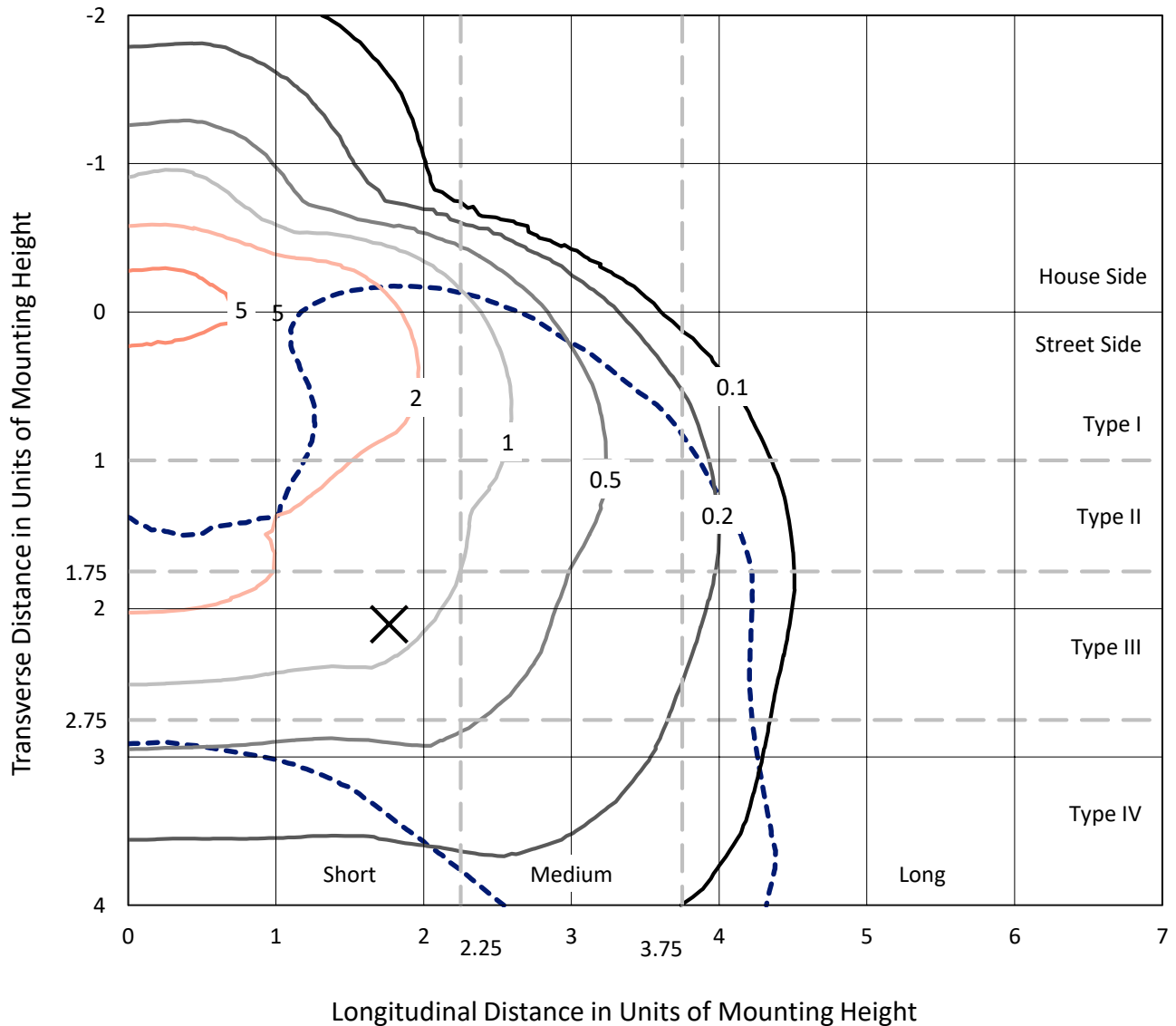


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

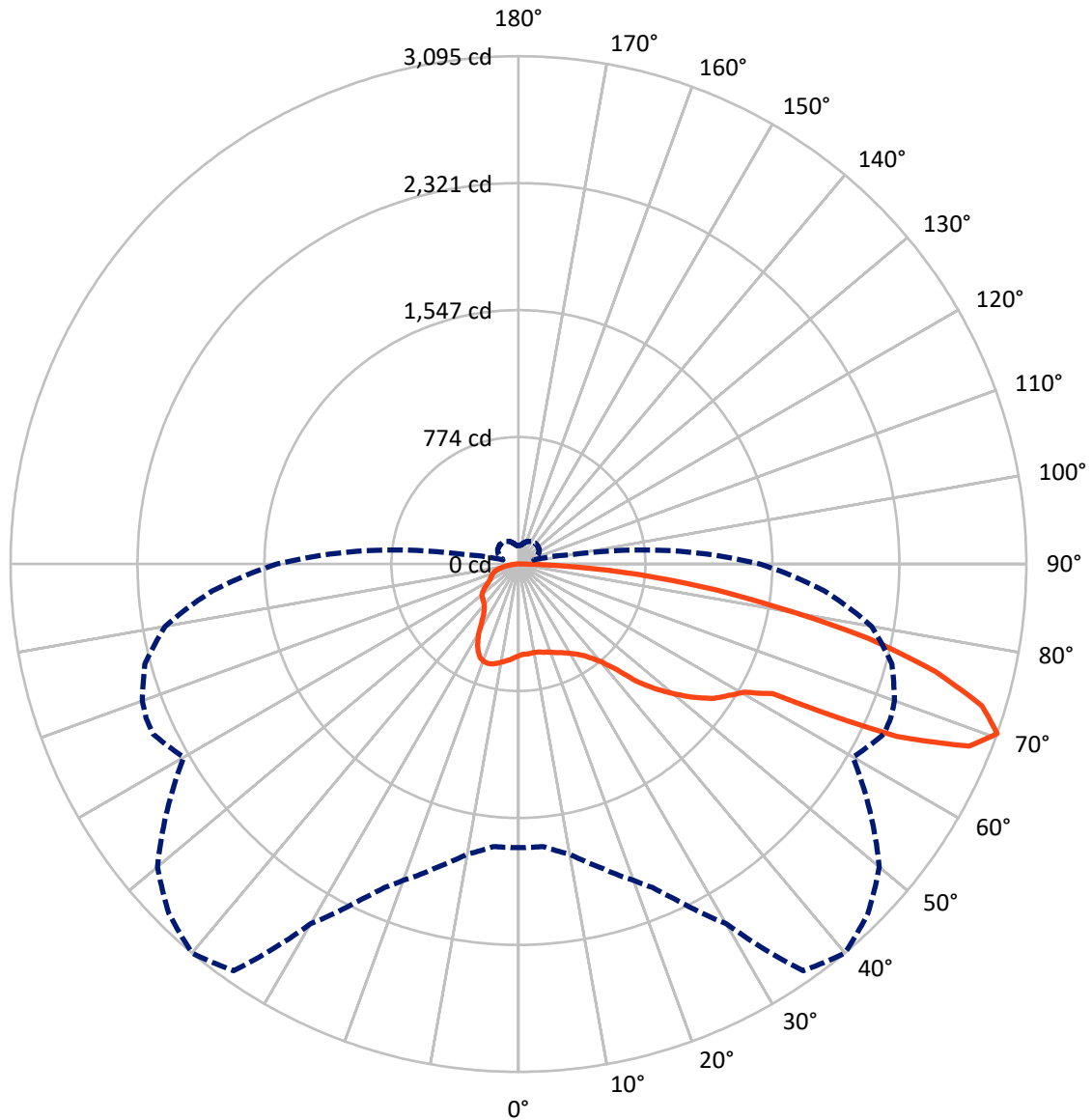


Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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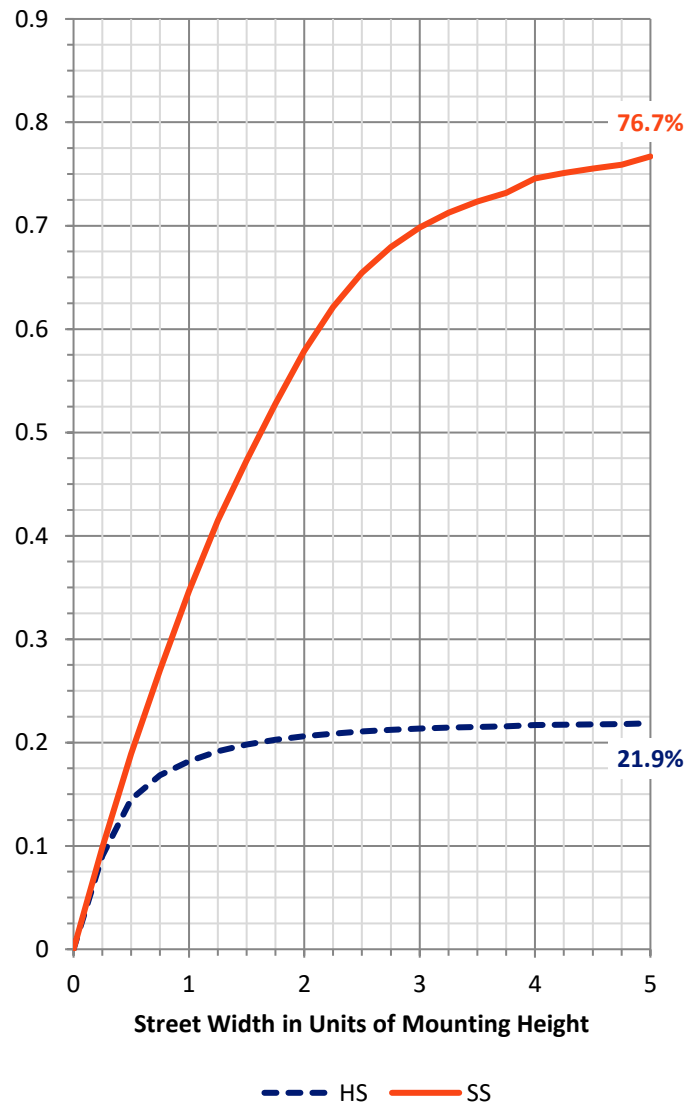
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1073.5	0.0	1073.5
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	3772.5	0.0	3772.5
	% Fixture	77.8	0.0	77.8
Total	Lumens	4846.0	0.0	4846.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	1.1
10°-20°	169.8	3.5
20°-30°	284.2	5.9
30°-40°	400.6	8.3
40°-50°	627.4	12.9
50°-60°	917.6	18.9
60°-70°	1272.6	26.3
70°-80°	953.6	19.7
80°-90°	166.0	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°	4846.0	100.0
0°-180°	4846.0	100.0



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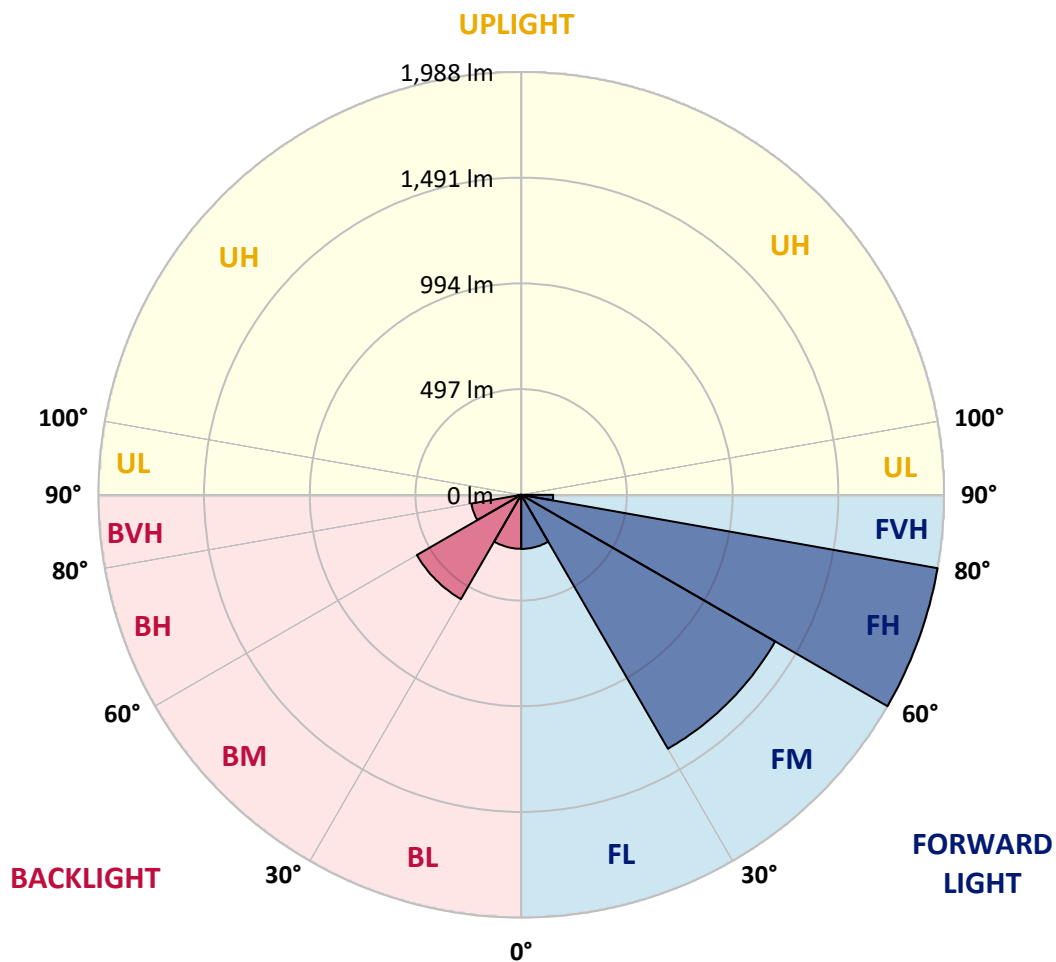
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	254.4	5.2			
FM	(30°-60°)	1379.1	28.5			
FH	(60°-80°)	1988.3	41.0			G2/5000
FVH	(80°-90°)	150.7	3.1			G2/225
BL	(0°-30°)	253.9	5.2	B1/500		
BM	(30°-60°)	566.4	11.7	B1/1000		
BH	(60°-80°)	237.9	4.9	B1/500		G1/500
BVH	(80°-90°)	15.3	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°	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1
2.5°	553.8	553.3	550.6	549.5	546.3	547.9	551.1	553.8	552.7	551.1	552.2
5°	552.2	551.1	549.0	547.4	544.1	544.7	547.9	549.5	551.7	551.1	552.2
7.5°	545.2	544.1	540.9	540.4	537.7	538.2	539.9	542.5	546.8	549.0	549.5
10°	540.9	538.8	536.1	536.1	533.4	534.0	535.6	538.2	543.6	547.4	549.0
12.5°	538.8	537.2	535.6	536.1	534.5	535.6	537.2	540.4	545.8	550.6	551.7
15°	542.5	542.5	540.4	541.5	541.5	543.6	545.2	547.4	551.7	557.5	561.3
17.5°	552.7	553.3	551.1	553.3	553.3	554.9	556.5	557.5	559.2	564.5	570.9
20°	557.0	558.6	558.1	561.8	564.5	566.1	567.2	569.3	569.9	573.6	579.5
22.5°	568.8	567.7	567.7	573.1	573.1	575.2	576.8	577.9	580.6	586.5	590.8
25°	581.7	580.1	580.6	584.9	583.8	584.4	586.0	588.1	590.8	598.3	606.3
27.5°	590.2	589.7	590.2	593.5	596.1	597.2	598.8	601.0	606.9	613.3	622.4
30°	609.0	609.0	604.2	606.3	607.9	609.0	611.7	617.6	624.6	632.1	641.2
32.5°	640.1	640.6	634.2	632.1	629.9	629.4	631.0	641.2	646.0	655.1	664.8
35°	672.3	667.4	664.2	667.4	668.5	667.4	668.0	673.9	677.1	685.1	693.7
37.5°	758.6	746.8	741.4	738.8	725.9	716.2	713.0	715.2	717.8	728.6	737.7
40°	884.0	884.0	870.1	862.1	840.6	825.1	813.8	793.4	781.6	785.4	794.0
42.5°	1020.2	1013.2	1004.7	985.4	971.4	952.1	938.2	908.7	887.8	879.2	863.1
45°	1128.0	1132.2	1135.5	1119.9	1108.7	1100.1	1093.1	1080.2	1054.0	1029.3	995.0
47.5°	1229.3	1234.1	1233.6	1199.3	1207.8	1208.9	1207.3	1192.8	1165.0	1140.8	1101.2
50°	1329.5	1339.7	1327.9	1271.6	1284.5	1287.7	1288.3	1276.5	1255.6	1247.5	1228.7
52.5°	1453.9	1444.8	1391.2	1356.3	1349.4	1351.5	1351.0	1348.8	1349.9	1352.1	1347.8
55°	1597.1	1524.7	1455.0	1436.8	1424.4	1415.8	1410.0	1400.3	1406.2	1445.3	1443.7
57.5°	1617.4	1614.7	1611.0	1535.9	1515.0	1509.1	1497.3	1488.8	1459.3	1510.7	1533.8
60°	1938.5	1970.2	1934.8	1909.6	1864.0	1797.6	1717.7	1628.1	1540.8	1584.2	1618.5
62.5°	2287.0	2287.0	2328.8	2301.0	2272.0	2217.3	2187.8	2072.6	1906.9	1740.7	1745.0
65°	2324.0	2337.9	2371.7	2438.2	2466.6	2481.6	2502.0	2491.3	2516.5	2532.6	2243.6
67.5°	2089.7	2106.9	2150.3	2252.7	2353.0	2402.3	2460.2	2585.1	2815.1	2962.0	2923.4
70°	1727.9	1728.4	1794.9	1912.8	2051.7	2133.7	2250.6	2530.9	3025.8	3094.9	3012.4
72.5°	1279.7	1279.1	1350.4	1455.5	1594.9	1711.2	1830.8	2237.2	2874.6	2953.4	2918.0
75°	901.7	906.0	965.0	1060.9	1183.2	1276.5	1390.7	1820.6	2431.2	2626.4	2682.1
77.5°	628.8	643.9	680.9	760.7	863.7	938.7	1027.7	1386.9	1915.0	2181.4	2266.6
80°	399.9	413.3	446.6	517.3	607.4	673.9	744.1	1013.2	1425.0	1597.1	1675.3
82.5°	228.4	237.5	267.0	323.3	391.9	444.4	498.6	681.4	1010.0	1119.4	1098.5
85°	112.0	117.9	137.2	175.3	227.3	264.8	302.9	412.3	576.3	638.5	606.9
87.5°	30.0	32.2	40.2	57.4	78.3	93.8	107.8	152.8	188.7	163.5	122.2
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°	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1
2.5°	551.1	548.4	550.0	550.6	550.6	552.2	553.8	554.9	552.7	558.1	555.9
5°	551.7	549.0	552.7	554.3	554.3	555.4	558.6	559.7	560.8	564.5	563.4
7.5°	550.6	551.7	555.9	559.7	560.2	560.8	566.7	566.7	572.0	572.6	573.6
10°	551.7	555.9	560.8	567.7	569.3	569.9	575.2	578.5	584.9	582.7	587.6
12.5°	556.5	564.0	569.3	579.5	583.3	584.9	592.4	599.4	606.9	604.7	609.0
15°	565.6	575.2	583.3	595.6	600.4	604.2	614.4	625.6	631.5	633.1	639.6
17.5°	575.8	587.0	597.8	610.6	617.6	623.0	634.7	649.8	655.7	662.1	669.1
20°	585.4	598.3	608.5	622.4	631.0	638.5	654.6	670.7	679.8	690.5	698.5
22.5°	596.1	608.5	619.7	634.2	644.4	654.6	675.5	692.1	706.6	719.5	730.2
25°	613.3	622.4	635.8	650.8	663.2	676.6	698.0	716.2	736.1	751.1	763.4
27.5°	631.5	639.0	654.0	672.8	685.7	699.1	719.5	742.5	766.6	787.0	803.6
30°	650.3	661.0	679.8	699.1	711.4	724.3	746.3	776.3	805.8	832.6	847.0
32.5°	673.3	688.4	711.4	731.8	742.5	754.3	780.6	815.4	857.2	886.2	887.8
35°	706.6	724.8	748.9	770.4	780.6	793.4	824.5	866.3	919.4	943.0	931.2
37.5°	751.1	773.6	796.6	820.2	832.0	847.6	884.0	945.1	1004.1	1014.8	984.3
40°	811.1	833.1	859.4	886.7	904.4	925.3	973.6	1071.1	1124.2	1109.7	1057.7
42.5°	876.0	907.1	939.3	978.4	1004.1	1026.1	1100.1	1215.9	1244.3	1217.5	1138.7
45°	983.2	1000.9	1033.1	1079.7	1109.2	1145.1	1251.3	1371.4	1387.4	1333.8	1226.6
47.5°	1086.7	1085.1	1116.7	1182.6	1225.0	1280.8	1415.8	1528.4	1526.8	1458.7	1322.6
50°	1211.6	1210.5	1225.5	1305.9	1366.0	1431.9	1601.9	1684.4	1657.1	1569.7	1414.2
52.5°	1332.2	1343.5	1373.5	1438.9	1500.0	1584.7	1761.1	1809.3	1778.3	1670.5	1491.4
55°	1444.3	1467.9	1508.1	1592.2	1670.0	1777.2	1916.0	1935.9	1882.3	1748.8	1547.2
57.5°	1551.5	1584.2	1639.9	1754.7	1865.6	1963.7	2047.9	2045.8	1966.4	1808.8	1583.1
60°	1651.7	1700.5	1772.4	1919.8	2045.8	2120.3	2175.5	2142.8	2031.3	1847.4	1595.4
62.5°	1767.5	1818.5	1901.0	2098.8	2209.3	2260.2	2276.3	2210.4	2067.7	1854.9	1574.5
65°	1987.3	2003.4	2065.1	2275.8	2347.6	2366.9	2341.2	2239.8	2074.7	1830.3	1496.8
67.5°	2698.2	2302.0	2228.0	2410.9	2437.1	2428.0	2366.9	2239.3	2035.6	1730.5	1309.7
70°	2871.4	2612.4	2354.0	2455.9	2455.4	2438.7	2356.7	2185.2	1871.5	1470.0	936.6
72.5°	2803.3	2557.7	2339.0	2410.3	2429.1	2429.6	2260.2	1962.1	1515.0	1000.9	433.7
75°	2624.8	2395.3	2303.6	2297.2	2263.4	2168.0	1874.2	1477.0	919.4	398.9	64.3
77.5°	2221.6	2006.6	1850.6	1694.1	1608.8	1473.2	1100.1	662.6	302.4	48.2	41.3
80°	1571.3	1285.0	953.2	723.7	610.1	417.6	143.1	52.5	43.4	30.6	26.3
82.5°	930.1	633.7	277.7	64.3	49.3	45.6	38.1	32.7	27.9	18.8	16.6
85°	474.5	250.9	36.5	30.0	28.4	26.8	23.1	20.4	15.5	10.2	11.3
87.5°	63.8	19.3	10.7	10.7	10.2	10.2	9.6	7.5	4.8	3.2	3.2
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°	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1
2.5°	555.9	557.5	559.2	560.2	561.3	561.8	563.4	563.4	565.6	568.3	570.4
5°	563.4	567.2	567.2	568.3	571.5	571.5	574.7	574.2	577.9	582.2	582.7
7.5°	574.7	580.1	579.0	580.1	583.8	584.9	587.0	585.4	590.8	594.0	594.5
10°	590.2	593.5	594.5	596.1	599.4	602.0	602.6	601.0	605.3	605.3	605.8
12.5°	616.0	617.1	620.8	621.3	621.3	625.6	623.5	621.3	621.9	618.1	615.4
15°	647.1	646.5	652.4	651.9	649.8	651.9	647.1	642.8	638.5	628.8	620.8
17.5°	676.6	677.1	681.4	679.8	678.2	676.0	669.6	661.6	649.8	633.7	619.7
20°	706.0	706.6	706.0	704.4	702.3	692.1	682.5	669.6	653.0	630.5	611.2
22.5°	736.6	736.6	731.2	728.0	723.7	706.0	690.5	671.2	646.5	617.6	590.8
25°	768.8	769.3	757.0	750.0	742.5	715.2	691.0	662.1	626.7	589.2	555.9
27.5°	805.8	796.6	775.7	763.4	748.9	712.5	676.0	639.0	594.5	547.9	505.0
30°	837.4	814.9	782.2	763.4	741.4	696.9	647.1	597.8	545.8	492.1	439.6
32.5°	864.7	826.7	779.0	752.7	723.2	666.4	608.5	544.1	484.6	424.1	382.2
35°	890.5	835.2	773.1	739.3	701.8	629.4	559.7	486.8	424.6	374.2	338.8
37.5°	922.6	844.4	762.3	720.0	675.0	590.2	513.6	442.3	386.5	345.8	322.7
40°	963.9	855.1	747.3	694.8	641.2	546.8	463.7	398.9	355.4	326.0	315.8
42.5°	1013.2	866.9	723.7	658.3	596.1	492.1	410.7	359.2	329.7	315.2	309.3
45°	1065.2	879.2	695.3	616.5	545.8	437.5	364.6	326.0	311.5	306.7	303.4
47.5°	1126.9	895.8	662.1	567.7	489.5	383.3	325.4	299.7	299.7	300.2	299.7
50°	1190.1	912.4	629.4	515.7	427.8	330.2	293.2	284.1	287.4	291.6	293.2
52.5°	1243.8	927.5	618.7	495.4	374.2	284.1	266.4	265.9	270.2	275.6	277.2
55°	1272.7	930.1	627.8	492.1	362.4	253.0	239.6	243.4	247.7	253.6	253.6
57.5°	1288.8	909.8	582.7	421.4	313.6	225.7	214.4	219.8	221.4	226.8	230.0
60°	1267.9	865.8	431.6	294.9	231.6	193.0	189.2	197.3	200.5	206.9	210.7
62.5°	1210.5	748.9	270.7	190.9	172.1	168.9	172.6	180.1	186.6	193.0	196.2
65°	1074.4	499.1	150.6	149.6	153.3	156.5	166.7	173.7	179.6	185.5	184.4
67.5°	772.5	186.6	125.4	131.9	138.3	150.1	160.8	169.9	172.1	175.3	175.3
70°	326.0	98.1	112.0	120.1	131.9	144.2	154.9	157.1	162.4	162.4	163.5
72.5°	73.4	79.9	96.5	107.8	120.6	131.9	141.5	146.4	148.0	155.5	153.9
75°	57.9	65.9	85.8	95.4	102.4	112.0	123.3	128.1	133.0	138.3	142.1
77.5°	41.8	52.0	70.8	77.2	84.2	94.9	100.3	107.8	112.0	115.3	115.8
80°	29.5	41.8	54.7	58.4	62.7	64.3	70.2	82.0	85.2	90.6	92.2
82.5°	22.0	28.9	32.7	33.8	34.8	39.7	40.7	47.2	50.4	59.0	63.8
85°	16.1	16.6	12.9	12.3	12.3	15.0	17.2	22.5	27.3	33.2	36.5
87.5°	3.8	4.3	4.8	5.4	5.9	7.5	10.2	15.5	22.5	28.9	30.6
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1
2.5°	570.9	575.2	576.3	576.8	579.0	579.5	580.1	580.6
5°	583.3	588.6	589.7	590.2	593.5	594.0	594.0	595.1
7.5°	594.5	598.8	599.9	600.4	603.1	604.7	604.7	605.8
10°	604.7	606.3	605.8	605.8	608.5	608.5	608.5	608.5
12.5°	611.7	609.5	606.9	605.3	603.7	601.0	599.4	597.8
15°	612.2	604.2	598.8	595.1	589.2	581.1	576.3	572.0
17.5°	603.7	589.7	582.2	575.2	562.4	549.5	540.4	532.9
20°	586.0	562.4	552.2	542.0	522.2	503.9	492.7	484.6
22.5°	556.5	523.2	508.2	495.9	470.2	449.3	437.5	430.0
25°	515.2	471.8	451.9	434.2	411.2	395.1	385.5	379.0
27.5°	455.7	413.9	398.3	384.9	364.6	350.1	339.9	336.1
30°	398.3	367.2	355.4	344.7	328.1	314.2	303.4	298.6
32.5°	350.1	330.2	322.2	315.2	302.9	289.0	277.7	273.4
35°	317.9	306.7	301.3	295.9	283.6	270.2	256.8	250.9
37.5°	311.5	303.4	299.1	294.9	284.7	268.1	252.5	246.1
40°	308.8	302.4	300.2	297.5	285.7	270.7	253.6	246.1
42.5°	306.1	304.0	300.8	296.5	283.6	269.1	255.2	247.1
45°	303.4	301.3	297.0	292.7	279.8	263.8	250.4	242.3
47.5°	299.1	294.3	289.5	284.7	272.3	255.7	240.2	233.2
50°	286.8	279.3	276.1	269.7	255.7	239.1	224.6	220.3
52.5°	269.1	260.0	256.8	249.8	235.3	217.7	203.7	198.4
55°	248.8	242.3	240.2	234.3	220.3	202.1	190.3	185.0
57.5°	232.1	230.5	230.0	227.3	215.5	200.5	191.4	187.6
60°	213.4	213.4	215.5	217.7	209.1	191.9	180.1	176.9
62.5°	196.2	194.1	194.6	194.6	186.0	171.6	161.9	157.1
65°	180.7	175.8	174.8	171.0	160.3	145.3	135.6	133.5
67.5°	169.9	163.5	161.4	158.2	146.9	133.5	124.4	121.2
70°	158.7	151.2	149.0	145.3	134.0	121.2	113.7	111.0
72.5°	148.0	138.9	137.2	134.0	122.2	111.0	101.9	98.1
75°	135.6	120.6	115.3	108.8	94.4	81.5	74.0	71.3
77.5°	109.4	105.1	101.3	96.5	82.6	69.7	62.7	59.5
80°	89.0	87.4	85.2	83.1	68.6	55.2	37.5	33.2
82.5°	64.3	61.7	63.8	65.4	53.1	32.7	25.7	23.1
85°	35.9	33.8	33.2	36.5	30.0	23.1	16.6	14.5
87.5°	31.1	28.9	27.3	25.7	18.2	15.5	12.9	11.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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