

Scaled data based on original data using
LM-31-95 IESNA Approved Method for Photometric Testing of Roadway Luminaires
Using Incandescent Filament and High Intensity Discharge Lamps

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P10090_150MP

Luminaire Tested: **LXF15P22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: P10090_150MP
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF15P22
Description: LEXINGTON HID POST TOP FIXTURE
WITH PRISMATIC TYPE 2 & 3 PANELS
AND VERTICAL LAMP SOCKET ASSEMBLY
Light Source: 150 WATT PULSE-START CLEAR ED-28

Ballast/Driver: -

Summary

Lumens per Lamp: 14000 (1 lamp)
Luminaire Lumens: 7179.3 lumens
Efficiency: 51.3%
Efficacy: 38.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.96' x L: 0.96' x H: 0.81')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B3 - U4 - G3

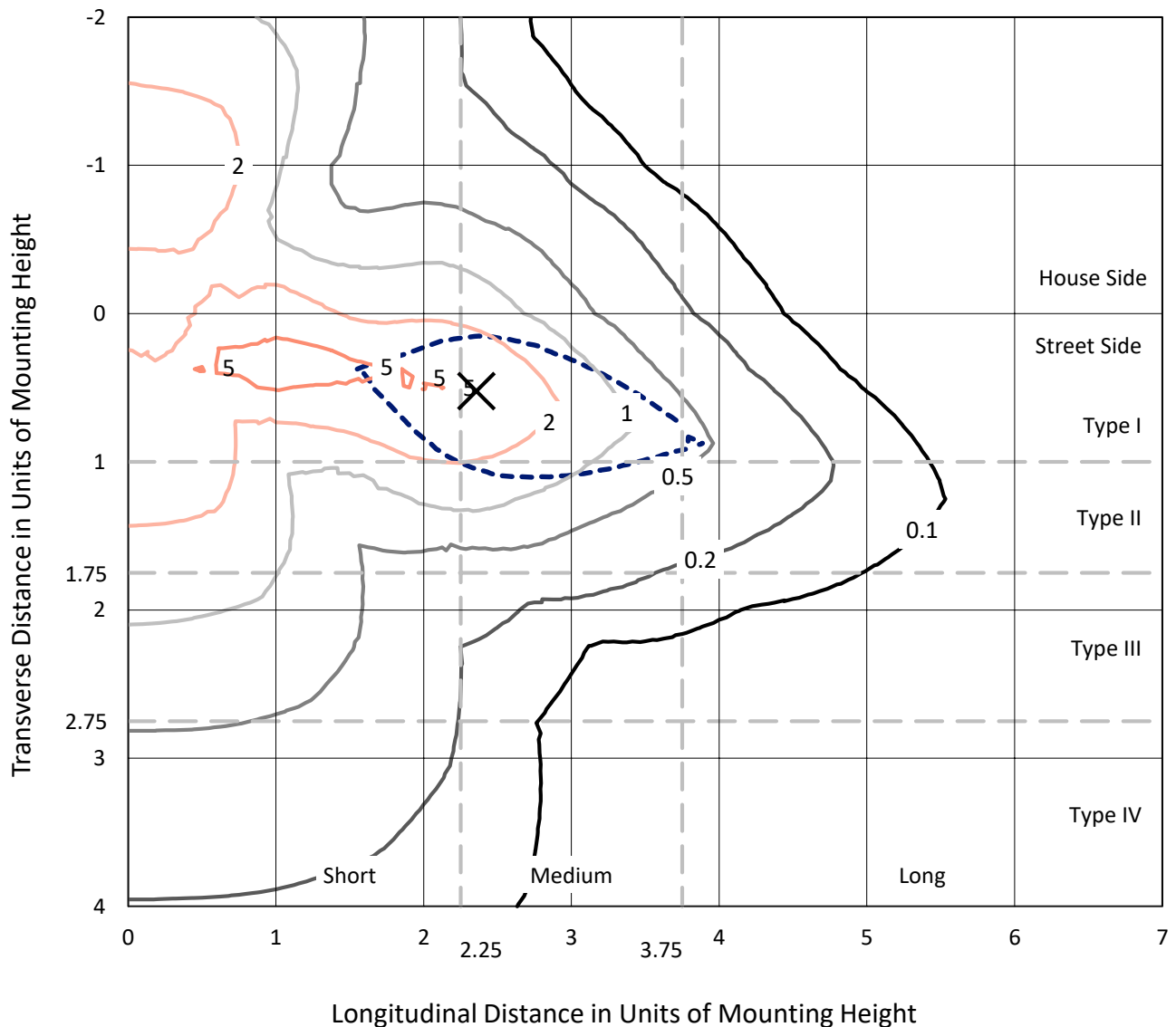
Input Watts (W): 185
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

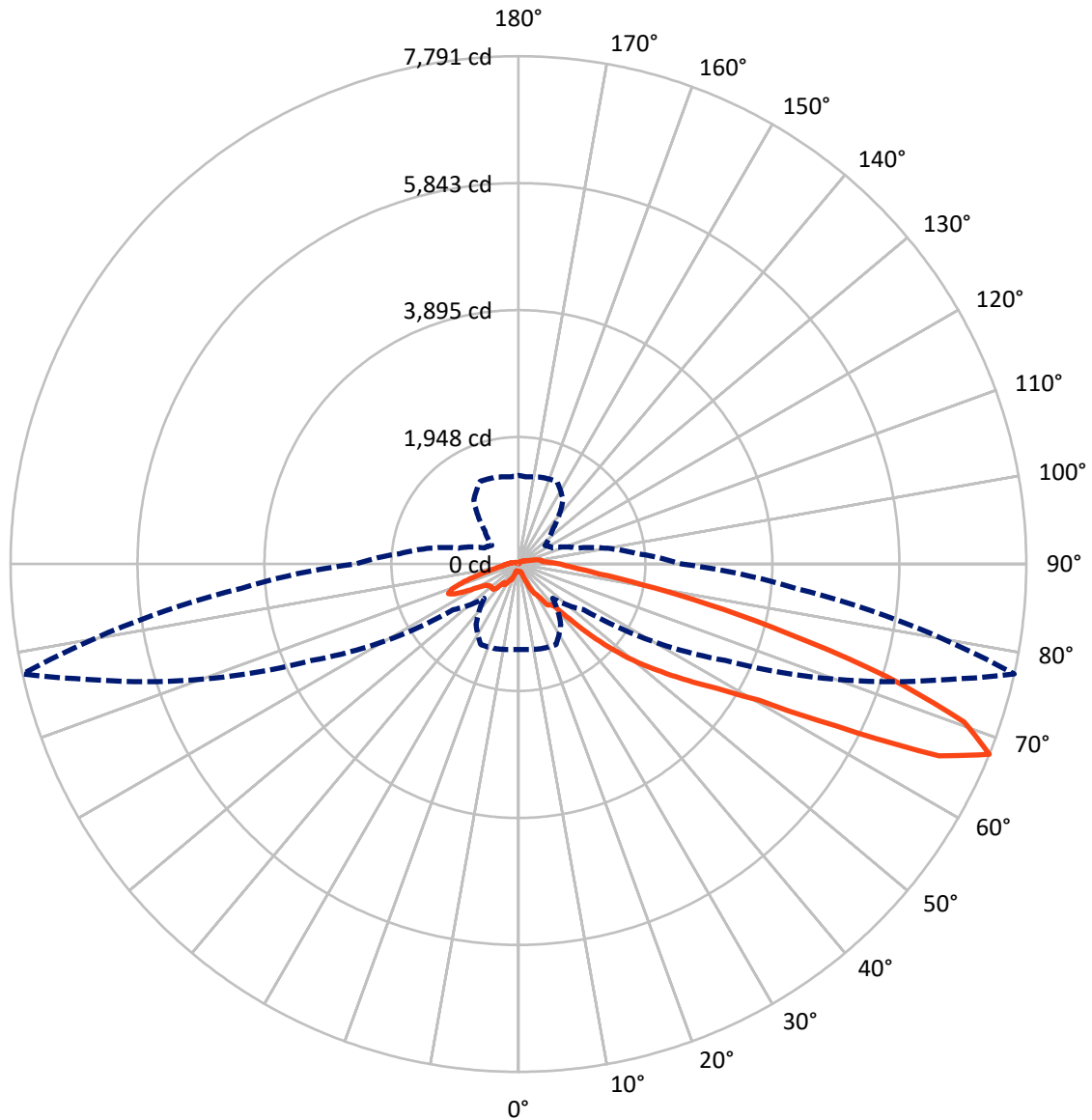
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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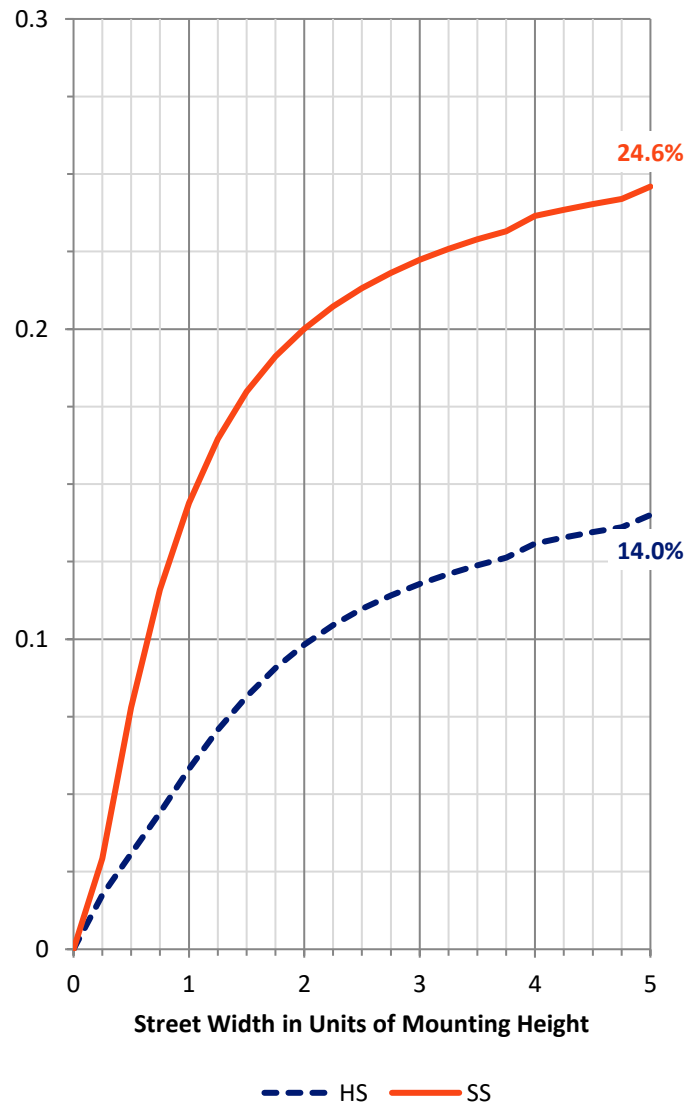
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2286.2	546.2	2832.4
	% Lamp	16.3	3.9	20.2
Street Side	Lumens	3764.4	582.5	4346.9
	% Lamp	26.9	4.2	31.0
Total	Lumens	6050.6	1128.7	7179.3
	% Lamp	43.2	8.1	51.3

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	11.6	0.2	0.1
10°-20°	44.5	0.6	0.3
20°-30°	146.8	2.0	1.0
30°-40°	351.6	4.9	2.5
40°-50°	666.2	9.3	4.8
50°-60°	966.7	13.5	6.9
60°-70°	1566.9	21.8	11.2
70°-80°	1370.6	19.1	9.8
80°-90°	925.6	12.9	6.6
90°-100°	660.9	9.2	4.7
100°-110°	307.4	4.3	2.2
110°-120°	91.3	1.3	0.7
120°-130°	37.6	0.5	0.3
130°-140°	20.0	0.3	0.1
140°-150°	8.0	0.1	0.1
150°-160°	2.1	0.0	0.0
160°-170°	0.9	0.0	0.0
170°-180°	0.3	0.0	0.0
0°-90°	6050.6	84.3	43.2
0°-180°	7179.3	100.0	51.3

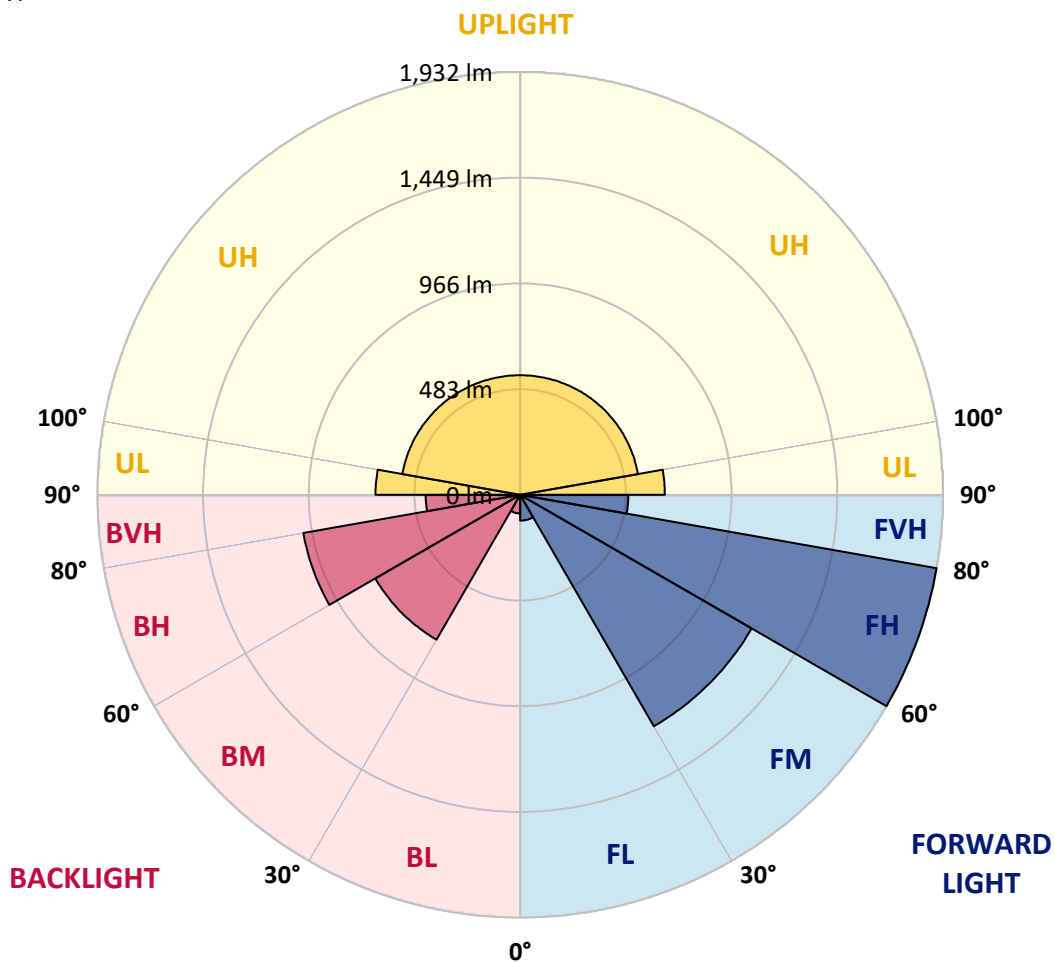


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	118.1	0.8			
FM (30°-60°)	1220.8	8.7			
FH (60°-80°)	1931.5	13.8			G2/5000
FVH (80°-90°)	494.0	3.5			G3/500
BL (0°-30°)	84.9	0.6	B0/110		
BM (30°-60°)	763.7	5.5	B1/1000		
BH (60°-80°)	1006.0	7.2	B3/2500		G3/2500
BVH (80°-90°)	431.6	3.1			G3/500
UL (90°-100°)	660.9	4.7		U4/1000	
UH (100°-180°)	546.2	3.9		U4/1000	
Trapped Light	6820.7	48.7			

BUG Rating: B3-U4-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	115.3	115.3	115.3	115.3	115.3	115.3	115.3	115.3	115.3	115.3	115.3
2.5°	120.4	121.5	124.6	125.6	124.6	121.5	118.4	117.4	116.3	116.3	115.3
5°	134.9	134.9	136.9	135.9	132.8	127.6	123.5	119.4	117.4	116.3	114.3
7.5°	152.4	152.4	151.3	148.2	143.1	134.9	127.6	121.5	116.3	115.3	113.2
10°	179.1	179.1	176.0	169.9	157.5	144.1	131.8	123.5	116.3	115.3	112.2
12.5°	207.9	205.9	200.7	192.5	176.0	154.4	137.9	124.6	116.3	114.3	111.2
15°	229.6	227.5	223.4	214.1	193.5	164.7	144.1	128.7	122.5	121.5	118.4
17.5°	245.0	244.0	241.9	233.7	210.0	182.2	155.4	143.1	135.9	135.9	133.8
20°	261.5	260.4	261.5	258.4	235.7	206.9	188.4	176.0	174.0	175.0	174.0
22.5°	277.9	276.9	288.2	302.6	300.6	280.0	252.2	250.1	267.6	264.6	266.6
25°	302.6	302.6	322.2	360.3	457.1	503.4	368.5	339.7	412.8	407.6	374.7
27.5°	331.5	329.4	342.8	381.9	475.6	699.0	576.5	404.6	518.8	500.3	393.2
30°	381.9	379.9	392.2	409.7	441.6	561.0	675.3	481.8	591.9	543.5	423.1
32.5°	440.6	438.5	448.8	456.0	449.9	567.2	989.3	744.3	659.9	619.7	555.9
35°	540.4	533.2	524.0	497.2	482.8	530.1	1015.0	1146.8	856.5	775.1	620.7
37.5°	657.8	654.7	645.4	582.6	542.5	530.1	798.8	1390.7	925.4	793.7	585.7
40°	722.6	714.4	736.0	693.8	589.9	541.5	665.0	1428.8	996.5	852.4	640.3
42.5°	804.0	792.6	810.1	762.8	641.3	545.6	640.3	1899.3	1410.3	1147.8	871.9
45°	872.9	865.7	896.6	844.1	672.2	574.4	695.9	2078.4	2054.7	1564.7	1058.2
47.5°	897.6	889.4	929.6	913.1	741.2	610.4	752.5	2012.5	2594.1	1973.4	1132.4
50°	950.1	949.1	975.9	966.6	802.9	623.8	786.5	1889.0	2997.6	2373.8	1173.5
52.5°	1005.7	1004.7	1027.4	1027.4	851.3	619.7	792.6	1742.8	3283.8	2740.3	1247.6
55°	1068.5	1066.5	1079.9	1092.2	877.1	604.3	787.5	1639.9	3485.6	3154.1	1347.5
57.5°	1109.7	1105.6	1125.1	1149.9	918.2	608.4	799.9	1700.6	3671.9	3597.8	1517.4
60°	1140.6	1132.4	1145.7	1198.2	966.6	630.0	833.8	1899.3	4104.3	4243.2	1908.5
62.5°	1199.3	1192.1	1199.3	1240.4	1009.9	658.8	927.5	2335.7	5049.3	5469.3	2645.6
65°	1268.2	1268.2	1277.5	1288.8	1061.3	701.0	1086.0	2990.4	6273.2	7089.6	3670.9
67.5°	1312.5	1314.6	1344.4	1362.9	1130.3	742.2	1220.9	3496.9	6835.3	7790.6	4265.9
70°	1326.9	1338.2	1393.8	1426.8	1208.5	773.1	1187.9	3320.9	6304.1	7251.2	3971.5
72.5°	1343.4	1348.5	1414.4	1449.4	1228.1	743.2	950.1	2536.5	5050.3	5910.9	3052.2
75°	1355.7	1359.9	1427.8	1435.0	1193.1	673.2	648.5	1667.6	3707.9	4279.3	2043.4
77.5°	1354.7	1362.9	1399.0	1395.9	1132.4	605.3	476.6	1121.0	2621.9	2960.6	1371.2
80°	1352.6	1370.1	1388.7	1381.5	1114.9	574.4	381.9	827.6	1775.7	1916.8	985.1
82.5°	1350.6	1373.2	1366.0	1366.0	1101.5	560.0	316.0	613.5	1182.8	1254.9	706.2
85°	1364.0	1385.6	1374.3	1364.0	1100.4	554.9	271.8	479.7	848.2	911.0	551.8
87.5°	1368.1	1394.9	1352.6	1350.6	1091.2	552.8	240.9	393.2	679.4	730.9	456.0
90°	1373.2	1400.0	1340.3	1308.4	1062.4	537.4	217.2	322.2	561.0	607.4	371.6
92.5°	1317.6	1349.6	1270.3	1208.5	968.7	496.2	191.5	261.5	434.4	468.4	295.4
95°	1210.6	1234.3	1137.5	1051.0	840.0	436.5	170.9	222.4	358.2	382.9	244.0
97.5°	1000.6	1021.2	962.5	871.9	703.1	379.9	156.5	202.8	336.6	358.2	226.5
100°	775.1	809.1	770.0	723.7	585.7	330.4	142.1	185.3	326.3	342.8	211.0
102.5°	600.1	620.7	627.9	589.9	473.5	275.9	129.7	158.5	274.9	287.2	179.1
105°	438.5	463.2	467.4	441.6	372.6	224.4	117.4	132.8	203.8	214.1	142.1
107.5°	305.7	322.2	328.4	316.0	280.0	186.3	107.1	116.3	169.9	179.1	119.4
110°	187.4	195.6	211.0	211.0	196.6	147.2	95.7	102.9	145.1	149.3	102.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
112.5°	102.9	108.1	126.6	134.9	131.8	111.2	85.4	93.7	125.6	128.7	90.6
115°	60.7	63.8	76.2	87.5	85.4	78.2	74.1	86.5	110.1	112.2	81.3
117.5°	39.1	41.2	51.5	60.7	62.8	60.7	64.9	80.3	100.9	102.9	76.2
120°	28.8	30.9	36.0	44.3	48.4	52.5	59.7	74.1	91.6	92.6	70.0
122.5°	22.6	23.7	27.8	34.0	40.1	46.3	54.6	69.0	82.4	82.4	63.8
125°	17.5	18.5	22.6	27.8	35.0	41.2	50.4	64.9	76.2	75.1	59.7
127.5°	14.4	15.4	18.5	22.6	28.8	36.0	47.4	60.7	67.9	66.9	54.6
130°	13.4	13.4	16.5	19.6	24.7	31.9	43.2	55.6	63.8	60.7	49.4
132.5°	11.3	12.4	14.4	16.5	20.6	27.8	39.1	51.5	56.6	54.6	45.3
135°	10.3	11.3	13.4	14.4	16.5	23.7	34.0	45.3	51.5	49.4	41.2
137.5°	9.3	9.3	12.4	13.4	13.4	18.5	29.9	40.1	45.3	43.2	36.0
140°	8.2	8.2	11.3	12.4	11.3	14.4	23.7	35.0	40.1	39.1	31.9
142.5°	7.2	7.2	9.3	10.3	9.3	10.3	17.5	27.8	32.9	31.9	27.8
145°	6.2	6.2	9.3	10.3	8.2	7.2	11.3	20.6	24.7	23.7	21.6
147.5°	5.1	5.1	8.2	8.2	7.2	5.1	6.2	11.3	15.4	15.4	14.4
150°	4.1	5.1	7.2	8.2	6.2	4.1	4.1	6.2	8.2	9.3	9.3
152.5°	4.1	4.1	6.2	7.2	6.2	4.1	3.1	4.1	5.1	5.1	5.1
155°	3.1	3.1	6.2	6.2	5.1	3.1	2.1	3.1	3.1	3.1	3.1
157.5°	3.1	3.1	5.1	6.2	5.1	3.1	2.1	2.1	3.1	2.1	3.1
160°	2.1	2.1	5.1	6.2	5.1	3.1	2.1	2.1	2.1	2.1	2.1
162.5°	2.1	2.1	4.1	6.2	5.1	3.1	2.1	2.1	2.1	2.1	2.1
165°	2.1	2.1	4.1	6.2	4.1	3.1	2.1	2.1	2.1	2.1	2.1
167.5°	2.1	2.1	4.1	6.2	5.1	3.1	2.1	2.1	2.1	2.1	2.1
170°	2.1	2.1	4.1	6.2	5.1	3.1	2.1	2.1	2.1	2.1	2.1
172.5°	2.1	2.1	5.1	6.2	5.1	3.1	2.1	2.1	2.1	2.1	2.1
175°	2.1	2.1	5.1	6.2	5.1	3.1	2.1	2.1	2.1	2.1	2.1
177.5°	2.1	2.1	4.1	6.2	5.1	3.1	2.1	2.1	2.1	2.1	2.1
180°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	115.3	115.3	115.3	115.3	115.3	115.3	115.3	115.3	115.3	115.3	115.3
2.5°	115.3	115.3	115.3	115.3	115.3	113.2	111.2	108.1	107.1	107.1	106.0
5°	114.3	113.2	113.2	113.2	113.2	111.2	109.1	107.1	106.0	106.0	106.0
7.5°	112.2	111.2	110.1	111.2	111.2	110.1	109.1	109.1	109.1	109.1	109.1
10°	111.2	110.1	109.1	110.1	112.2	112.2	114.3	115.3	116.3	117.4	117.4
12.5°	109.1	108.1	107.1	109.1	114.3	117.4	121.5	124.6	127.6	130.7	131.8
15°	117.4	115.3	113.2	116.3	119.4	126.6	132.8	141.0	145.1	149.3	150.3
17.5°	130.7	129.7	126.6	129.7	134.9	139.0	151.3	160.6	166.8	171.9	172.9
20°	169.9	164.7	158.5	155.4	159.6	166.8	174.0	186.3	193.5	199.7	200.7
22.5°	247.1	234.7	218.2	204.9	199.7	201.8	207.9	220.3	230.6	237.8	239.9
25°	316.0	290.3	262.5	246.0	236.8	238.8	248.1	261.5	276.9	283.1	287.2
27.5°	320.1	290.3	259.4	247.1	251.2	268.7	293.4	312.9	333.5	338.7	340.7
30°	370.6	335.6	299.6	269.7	270.7	294.4	339.7	371.6	402.5	415.9	419.0
32.5°	455.0	413.8	347.9	296.5	290.3	322.2	387.1	448.8	494.1	519.9	529.1
35°	489.0	447.8	362.4	294.4	303.7	353.1	443.7	544.6	629.0	657.8	677.4
37.5°	468.4	422.1	333.5	279.0	304.7	387.1	524.0	677.4	797.8	824.6	843.1
40°	549.7	483.8	359.3	277.9	296.5	413.8	614.6	822.5	925.4	937.8	954.3
42.5°	745.3	641.3	445.7	307.8	300.6	444.7	700.0	934.7	1003.7	992.4	1010.9
45°	866.8	728.8	481.8	338.7	324.3	489.0	770.0	997.5	1036.6	1035.6	1054.1
47.5°	916.2	753.5	481.8	342.8	343.8	524.0	821.5	1030.4	1056.2	1064.4	1085.0
50°	954.3	761.8	470.4	338.7	344.9	534.3	854.4	1072.6	1091.2	1098.4	1121.0
52.5°	999.6	784.4	472.5	330.4	338.7	545.6	893.5	1129.3	1141.6	1140.6	1167.4
55°	1046.9	816.3	483.8	326.3	338.7	564.1	939.9	1182.8	1190.0	1194.1	1220.9
57.5°	1136.5	880.1	508.5	335.6	342.8	584.7	986.2	1231.2	1251.8	1246.6	1269.3
60°	1345.4	1026.3	571.3	363.4	362.4	606.3	1034.6	1290.9	1298.1	1271.3	1291.9
62.5°	1762.4	1315.6	695.9	416.9	396.3	636.2	1090.1	1344.4	1319.7	1284.7	1306.3
65°	2264.7	1674.9	854.4	504.4	447.8	687.6	1148.8	1382.5	1350.6	1316.6	1341.3
67.5°	2500.4	1826.2	947.1	583.7	498.2	732.9	1192.1	1396.9	1375.3	1341.3	1358.8
70°	2282.2	1681.0	888.4	582.6	499.3	753.5	1203.4	1409.3	1372.2	1344.4	1358.8
72.5°	1793.2	1347.5	718.5	491.0	438.5	712.4	1184.9	1386.6	1351.6	1338.2	1351.6
75°	1285.7	967.6	520.9	371.6	347.9	643.4	1158.1	1380.4	1369.1	1357.8	1374.3
77.5°	909.0	699.0	378.8	283.1	284.1	604.3	1165.3	1413.4	1402.1	1393.8	1393.8
80°	670.1	510.6	292.4	236.8	252.2	609.4	1200.3	1449.4	1427.8	1438.1	1434.0
82.5°	495.1	380.9	236.8	209.0	236.8	637.2	1236.3	1474.1	1446.3	1467.9	1456.6
85°	388.1	303.7	204.9	188.4	221.3	645.4	1241.5	1466.9	1453.5	1479.3	1461.8
87.5°	327.4	260.4	184.3	171.9	205.9	622.8	1197.2	1423.7	1414.4	1448.4	1425.7
90°	271.8	221.3	163.7	155.4	186.3	574.4	1108.7	1337.2	1346.5	1389.7	1368.1
92.5°	218.2	184.3	144.1	139.0	168.8	502.4	991.3	1222.9	1253.8	1307.4	1286.8
95°	178.1	152.4	125.6	124.6	153.4	436.5	863.7	1082.9	1135.4	1200.3	1182.8
97.5°	162.6	139.0	116.3	113.2	140.0	380.9	731.9	922.4	983.1	1044.9	1027.4
100°	151.3	127.6	106.0	101.9	129.7	331.5	615.6	756.6	810.1	859.6	832.8
102.5°	132.8	112.2	93.7	90.6	120.4	285.1	500.3	630.0	658.8	684.6	668.1
105°	110.1	94.7	79.3	80.3	109.1	237.8	393.2	487.9	513.7	525.0	509.6
107.5°	94.7	82.4	71.0	71.0	97.8	192.5	295.4	362.4	378.8	379.9	361.3
110°	82.4	74.1	63.8	64.9	84.4	148.2	213.1	257.4	264.6	257.4	244.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	75.1	66.9	58.7	60.7	71.0	111.2	148.2	171.9	175.0	165.7	159.6
115°	67.9	61.8	55.6	55.6	61.8	78.2	100.9	112.2	110.1	100.9	93.7
117.5°	64.9	58.7	53.5	52.5	55.6	61.8	67.9	73.1	70.0	65.9	62.8
120°	60.7	55.6	51.5	50.4	50.4	52.5	52.5	50.4	49.4	46.3	45.3
122.5°	57.6	53.5	49.4	48.4	47.4	45.3	42.2	37.1	34.0	31.9	30.9
125°	54.6	51.5	46.3	45.3	44.3	41.2	35.0	28.8	25.7	24.7	24.7
127.5°	50.4	48.4	43.2	41.2	40.1	36.0	29.9	22.6	20.6	19.6	19.6
130°	46.3	44.3	40.1	38.1	36.0	31.9	24.7	19.6	17.5	16.5	16.5
132.5°	42.2	41.2	37.1	34.0	31.9	27.8	21.6	16.5	15.4	14.4	14.4
135°	38.1	37.1	32.9	29.9	26.8	22.6	17.5	13.4	13.4	12.4	12.4
137.5°	34.0	31.9	28.8	26.8	23.7	19.6	15.4	12.4	11.3	11.3	11.3
140°	29.9	28.8	25.7	22.6	20.6	15.4	12.4	10.3	9.3	9.3	9.3
142.5°	25.7	24.7	20.6	18.5	16.5	13.4	10.3	8.2	8.2	8.2	8.2
145°	20.6	19.6	17.5	15.4	13.4	11.3	9.3	7.2	7.2	6.2	7.2
147.5°	14.4	14.4	12.4	11.3	10.3	9.3	7.2	6.2	5.1	5.1	5.1
150°	9.3	9.3	8.2	8.2	9.3	8.2	6.2	5.1	4.1	4.1	4.1
152.5°	5.1	5.1	6.2	7.2	8.2	7.2	5.1	4.1	4.1	3.1	3.1
155°	3.1	4.1	4.1	6.2	7.2	6.2	4.1	3.1	2.1	2.1	2.1
157.5°	3.1	3.1	4.1	5.1	6.2	6.2	4.1	3.1	2.1	1.0	1.0
160°	2.1	2.1	3.1	4.1	6.2	6.2	4.1	2.1	1.0	0.0	0.0
162.5°	2.1	2.1	3.1	4.1	6.2	6.2	4.1	2.1	1.0	1.0	0.0
165°	2.1	2.1	3.1	4.1	6.2	6.2	4.1	2.1	1.0	0.0	0.0
167.5°	2.1	2.1	3.1	4.1	6.2	6.2	4.1	2.1	1.0	0.0	0.0
170°	2.1	2.1	3.1	4.1	6.2	6.2	4.1	2.1	1.0	1.0	0.0
172.5°	2.1	2.1	3.1	4.1	6.2	6.2	4.1	2.1	1.0	0.0	0.0
175°	2.1	2.1	3.1	5.1	6.2	6.2	4.1	2.1	1.0	1.0	0.0
177.5°	2.1	2.1	3.1	5.1	6.2	6.2	4.1	2.1	1.0	1.0	0.0
180°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1

(END OF REPORT)