

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: P10092\_150MP

Luminaire Tested: **LXF15P33**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-31-95  
Report Number: P10092\_150MP  
Test Lab: PEACHTREE CITY  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF15P33  
Description: LEXINGTON HID TYPE 3 POST TOP FIXTURE  
WITH PRISMATIC TYPE 2 & 3 PANELS  
AND VERTICAL LAMP SOCKET ASSEMBLY  
Light Source: 150 WATT PULSE-START COATED ED-28  
  
Ballast/Driver: -

**Summary**

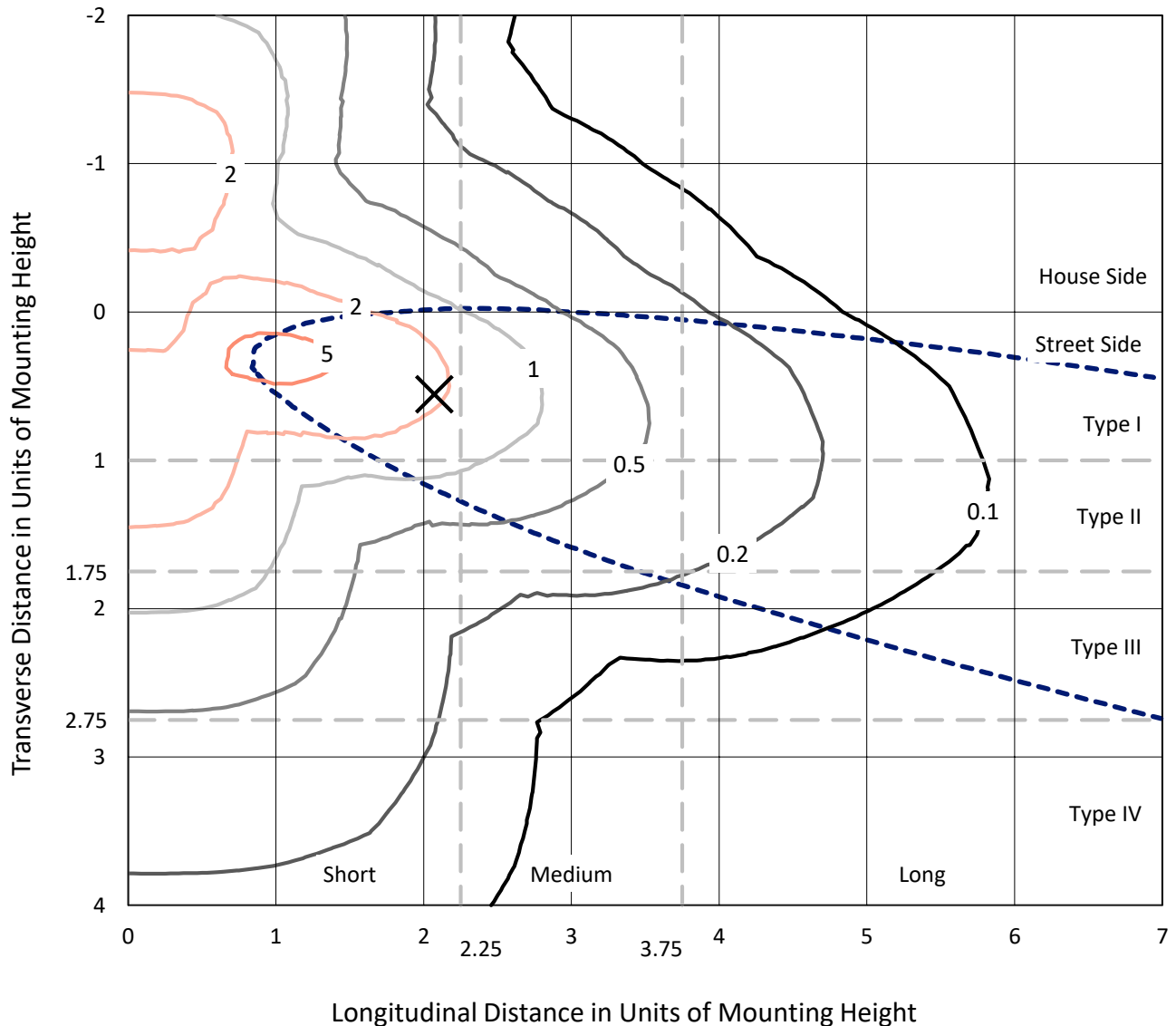
Lumens per Lamp: 13300 (1 lamp)  
Luminaire Lumens: 6711.3 lumens  
Efficiency: 50.5%  
Efficacy: 36.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.96' x L: 0.96' x H: 0.81')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B2 - U4 - G4  
  
Input Watts (W): 185  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

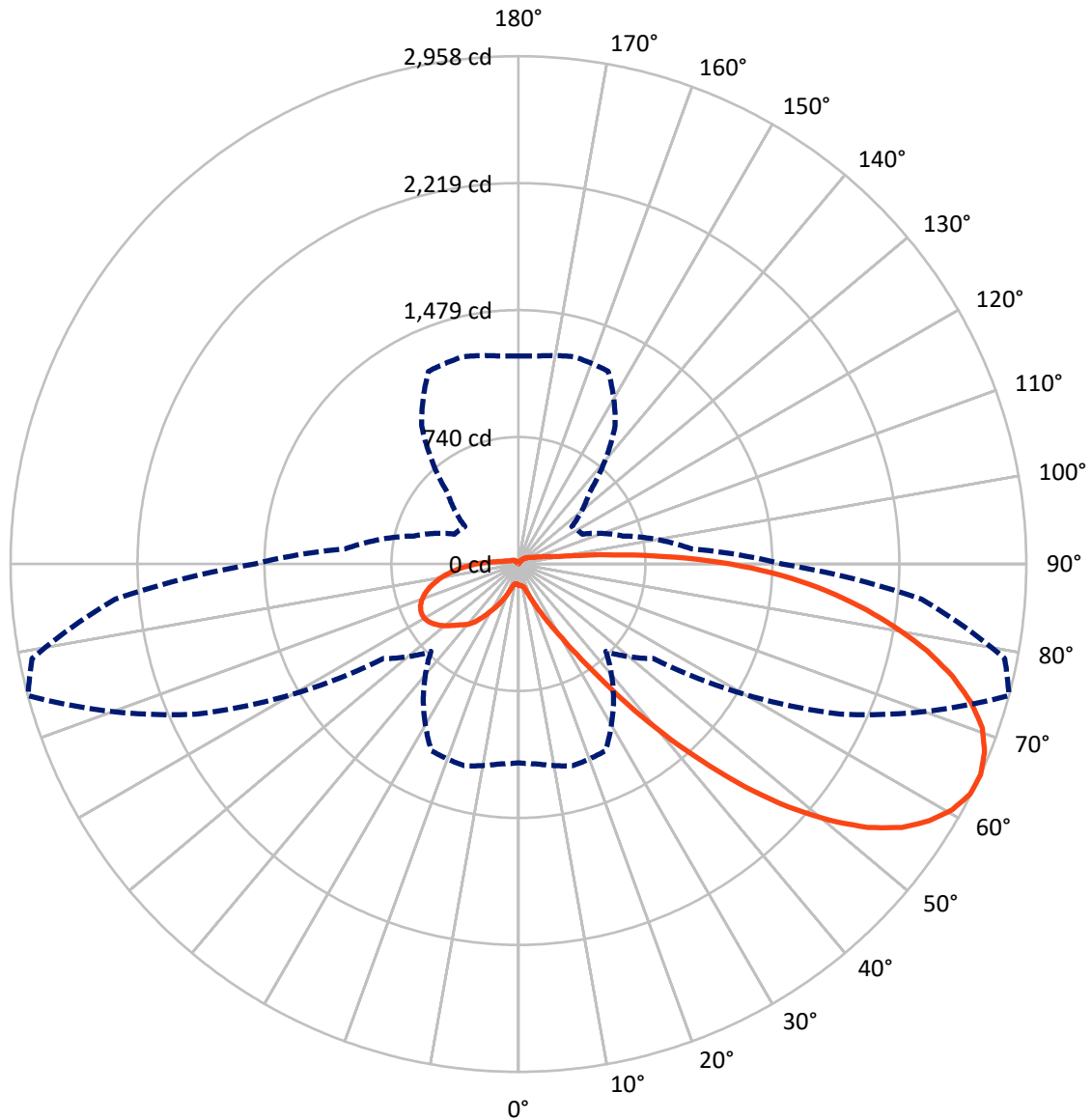
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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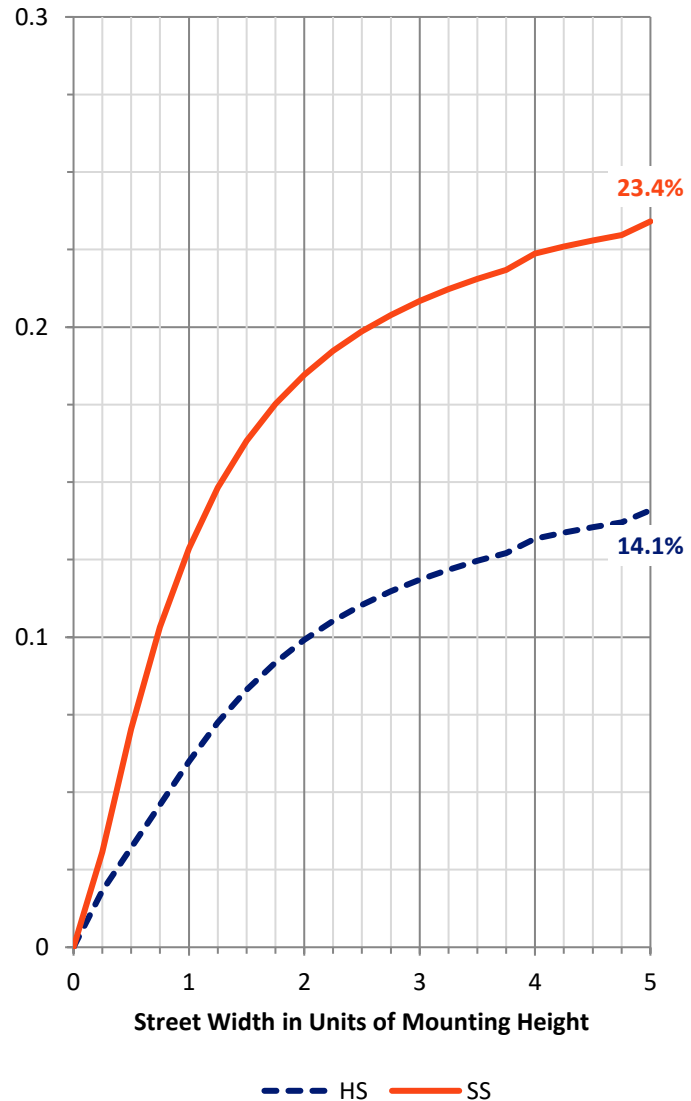
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2159.2	542.8	2701.9
	% Lamp	16.2	4.1	20.3
<b>Street Side</b>	Lumens	3423.3	586.0	4009.4
	% Lamp	25.7	4.4	30.1
<b>Total</b>	Lumens	5582.5	1128.8	6711.3
	% Lamp	42.0	8.5	50.5

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	12.4	0.2	0.1
10°-20°	48.8	0.7	0.4
20°-30°	147.5	2.2	1.1
30°-40°	370.0	5.5	2.8
40°-50°	681.8	10.2	5.1
50°-60°	974.8	14.5	7.3
60°-70°	1168.6	17.4	8.8
70°-80°	1185.1	17.7	8.9
80°-90°	993.3	14.8	7.5
90°-100°	628.9	9.4	4.7
100°-110°	315.9	4.7	2.4
110°-120°	121.2	1.8	0.9
120°-130°	40.8	0.6	0.3
130°-140°	15.8	0.2	0.1
140°-150°	5.3	0.1	0.0
150°-160°	0.8	0.0	0.0
160°-170°	0.1	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	5582.5	83.2	42.0
0°-180°	6711.3	100.0	50.5

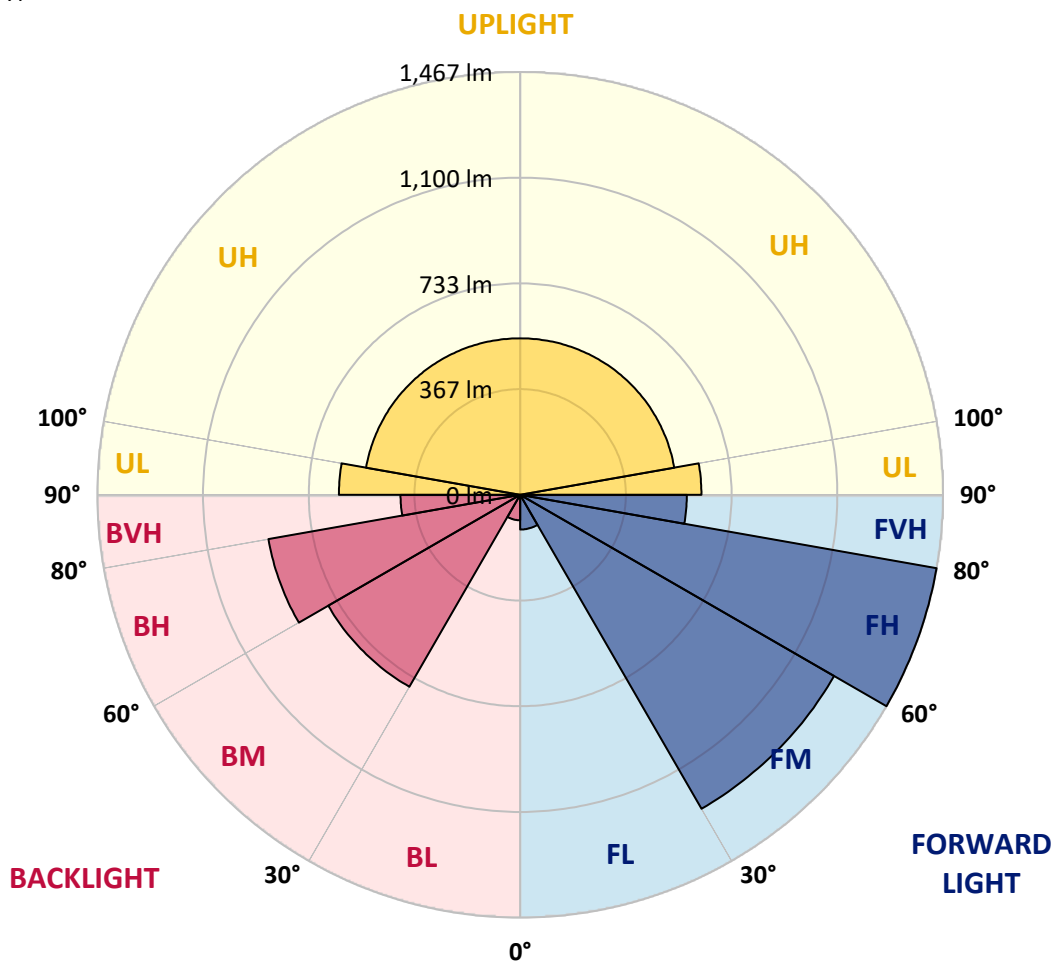


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	120.4	0.9			
FM (30°-60°)	1257.7	9.5			
FH (60°-80°)	1467.0	11.0			G1/1800
FVH (80°-90°)	578.3	4.3			G4/750
BL (0°-30°)	88.3	0.7	B0/110		
BM (30°-60°)	769.0	5.8	B1/1000		
BH (60°-80°)	886.8	6.7	B2/1000		G2/1000
BVH (80°-90°)	415.0	3.1			G3/500
UL (90°-100°)	628.9	4.7		U4/1000	
UH (100°-180°)	542.8	4.1		U4/1000	
Trapped Light	6588.7	49.5			

**BUG Rating: B2-U4-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	122.7	122.7	122.7	122.7	122.7	122.7	122.7	122.7	122.7	122.7	122.7
2.5°	136.1	136.1	137.1	137.1	135.1	132.0	128.9	126.8	124.8	124.8	122.7
5°	150.5	150.5	150.5	149.5	145.4	140.2	135.1	130.9	126.8	124.8	122.7
7.5°	165.0	165.0	165.0	162.9	156.7	149.5	141.2	134.0	127.8	125.8	121.7
10°	181.5	181.5	181.5	177.3	169.1	158.8	148.5	139.2	130.9	128.9	124.8
12.5°	202.1	202.1	200.0	193.8	182.5	170.1	157.7	145.4	137.1	135.1	132.0
15°	225.8	224.8	222.7	215.5	201.0	181.5	169.1	157.7	154.7	154.7	151.6
17.5°	251.6	251.6	250.5	242.3	226.8	203.1	187.6	182.5	183.5	183.5	179.4
20°	285.6	284.6	286.6	281.5	261.9	239.2	219.6	216.5	220.6	221.7	216.5
22.5°	322.7	321.7	327.9	329.9	315.5	301.1	268.1	259.8	269.1	268.1	263.9
25°	365.0	366.0	372.2	379.4	386.6	382.5	346.4	323.7	329.9	332.0	323.7
27.5°	419.6	418.6	420.7	426.8	448.5	465.0	444.4	415.5	407.2	403.1	385.6
30°	488.7	486.6	478.4	468.1	488.7	527.9	553.7	542.3	499.0	485.6	455.7
32.5°	578.4	575.3	553.7	522.7	516.5	579.4	672.2	708.3	631.0	597.0	547.5
35°	677.4	671.2	642.3	589.7	550.6	611.4	778.4	912.4	806.2	743.4	658.8
37.5°	766.0	761.9	734.1	668.1	592.8	628.9	868.1	1133.1	1041.3	931.0	780.5
40°	844.4	841.3	817.6	746.4	641.3	646.4	920.7	1321.8	1299.1	1141.3	903.2
42.5°	913.5	908.3	890.8	818.6	692.8	662.9	948.5	1482.6	1567.1	1369.2	1034.1
45°	964.0	963.0	951.6	882.5	738.2	675.3	955.7	1611.5	1849.6	1630.0	1186.7
47.5°	1006.3	1004.2	1002.1	937.2	778.4	686.7	958.8	1736.2	2112.5	1899.1	1365.1
50°	1036.2	1035.1	1042.3	983.6	814.5	694.9	966.1	1847.6	2345.5	2172.3	1567.1
52.5°	1064.0	1064.0	1075.3	1022.8	846.5	706.2	977.4	1942.4	2548.7	2404.3	1768.2
55°	1089.8	1087.7	1107.3	1060.9	871.2	716.6	988.7	2016.7	2708.5	2579.6	1952.7
57.5°	1107.3	1109.4	1139.3	1098.0	897.0	722.7	996.0	2068.2	2821.9	2711.6	2107.4
60°	1129.0	1131.0	1167.1	1133.1	921.7	726.9	994.9	2092.9	2904.3	2807.4	2231.1
62.5°	1145.4	1150.6	1192.9	1168.1	944.4	725.8	982.6	2092.9	2952.8	2867.2	2316.7
65°	1157.8	1168.1	1216.6	1200.1	966.1	720.7	959.9	2068.2	2958.0	2885.8	2356.9
67.5°	1170.2	1180.5	1235.1	1229.0	983.6	710.4	922.8	2010.5	2928.1	2869.3	2358.9
70°	1182.6	1196.0	1252.7	1251.6	1000.1	697.0	874.3	1920.8	2866.2	2816.7	2319.8
72.5°	1194.9	1205.2	1266.1	1271.2	1009.4	682.5	816.6	1811.5	2756.9	2721.9	2238.3
75°	1198.0	1210.4	1271.2	1281.5	1016.6	664.0	753.7	1672.3	2610.5	2586.8	2121.8
77.5°	1200.1	1209.4	1267.1	1280.5	1016.6	642.3	683.6	1515.6	2433.2	2415.7	1970.3
80°	1191.8	1202.2	1256.8	1271.2	1007.3	619.6	615.5	1350.6	2222.9	2225.9	1798.1
82.5°	1175.3	1182.6	1234.1	1248.6	985.6	590.8	549.5	1173.3	1998.1	2008.4	1591.9
85°	1146.5	1153.7	1201.1	1210.4	953.7	559.8	481.5	992.9	1754.8	1768.2	1363.0
87.5°	1107.3	1113.5	1155.8	1159.9	908.3	522.7	415.5	807.3	1477.4	1499.1	1107.3
90°	1058.8	1061.9	1100.1	1096.0	855.7	484.6	354.7	614.5	1174.3	1192.9	844.4
92.5°	990.8	996.0	1027.9	1016.6	788.7	442.3	286.6	432.0	842.3	857.8	587.7
95°	918.6	918.6	940.3	918.6	709.3	393.8	235.1	295.9	556.7	535.1	377.3
97.5°	823.8	825.8	840.3	814.5	628.9	347.4	203.1	214.4	351.6	327.9	254.7
100°	722.7	724.8	734.1	702.1	539.2	303.1	173.2	172.2	239.2	233.0	196.9
102.5°	615.5	618.6	625.8	595.9	453.6	262.9	151.6	144.3	192.8	189.7	157.7
105°	506.2	512.4	516.5	484.6	371.2	222.7	132.0	125.8	161.9	158.8	132.0
107.5°	409.3	406.2	411.4	383.5	295.9	187.6	115.5	109.3	137.1	135.1	114.4
110°	308.3	308.3	312.4	291.8	235.1	154.7	100.0	97.9	117.5	113.4	96.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
112.5°	225.8	224.8	230.9	222.7	185.6	126.8	85.6	87.6	101.0	97.9	85.6
115°	166.0	168.1	173.2	169.1	141.2	99.0	74.2	80.4	88.7	86.6	76.3
117.5°	115.5	115.5	123.7	123.7	104.1	77.3	63.9	73.2	81.4	79.4	71.1
120°	80.4	81.4	84.5	84.5	75.3	60.8	55.7	67.0	75.3	73.2	65.0
122.5°	53.6	53.6	57.7	57.7	54.6	48.5	49.5	60.8	69.1	67.0	59.8
125°	35.1	35.1	38.1	38.1	40.2	39.2	44.3	56.7	63.9	62.9	55.7
127.5°	22.7	22.7	24.7	25.8	27.8	32.0	40.2	51.6	57.7	56.7	51.6
130°	15.5	15.5	17.5	17.5	20.6	25.8	35.1	46.4	52.6	51.6	46.4
132.5°	11.3	11.3	12.4	12.4	14.4	20.6	30.9	42.3	46.4	45.4	41.2
135°	8.2	8.2	10.3	10.3	10.3	17.5	26.8	37.1	42.3	41.2	38.1
137.5°	6.2	6.2	8.2	8.2	7.2	13.4	22.7	33.0	37.1	36.1	33.0
140°	5.2	5.2	6.2	6.2	5.2	8.2	18.6	27.8	32.0	32.0	28.9
142.5°	3.1	4.1	5.2	5.2	4.1	4.1	12.4	21.7	25.8	25.8	23.7
145°	3.1	3.1	5.2	5.2	3.1	2.1	6.2	15.5	19.6	20.6	18.6
147.5°	3.1	3.1	4.1	4.1	3.1	2.1	2.1	7.2	12.4	13.4	13.4
150°	2.1	2.1	3.1	4.1	2.1	1.0	1.0	3.1	6.2	6.2	6.2
152.5°	1.0	2.1	3.1	3.1	2.1	1.0	1.0	1.0	2.1	2.1	2.1
155°	1.0	1.0	2.1	3.1	1.0	0.0	1.0	1.0	1.0	1.0	1.0
157.5°	0.0	0.0	2.1	2.1	1.0	0.0	0.0	1.0	1.0	1.0	0.0
160°	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	122.7	122.7	122.7	122.7	122.7	122.7	122.7	122.7	122.7	122.7	122.7
2.5°	122.7	121.7	120.6	120.6	120.6	118.6	116.5	114.4	112.4	111.3	111.3
5°	120.6	119.6	117.5	117.5	117.5	115.5	113.4	111.3	110.3	110.3	109.3
7.5°	119.6	117.5	115.5	115.5	115.5	115.5	114.4	113.4	112.4	111.3	111.3
10°	121.7	119.6	117.5	116.5	116.5	117.5	116.5	117.5	117.5	117.5	116.5
12.5°	128.9	125.8	121.7	119.6	121.7	123.7	124.8	126.8	127.8	128.9	129.9
15°	147.4	143.3	135.1	130.9	129.9	134.0	138.2	143.3	147.4	149.5	149.5
17.5°	174.2	167.0	154.7	147.4	146.4	149.5	157.7	166.0	172.2	174.2	173.2
20°	209.3	200.0	180.4	170.1	169.1	175.3	182.5	194.9	203.1	206.2	207.2
22.5°	252.6	239.2	210.3	196.9	195.9	204.1	213.4	228.9	240.2	246.4	246.4
25°	305.2	282.5	242.3	223.7	224.8	235.1	250.5	271.2	290.7	299.0	301.1
27.5°	360.9	327.9	273.2	250.5	250.5	265.0	291.8	322.7	354.7	370.1	370.1
30°	420.7	378.4	305.2	277.3	275.3	296.9	338.2	391.8	441.3	464.0	467.0
32.5°	492.8	434.1	342.3	303.1	296.9	327.9	392.8	475.3	538.2	573.2	577.4
35°	573.2	492.8	383.5	328.9	316.5	358.8	457.8	567.1	647.5	682.5	686.7
37.5°	661.9	557.8	422.7	350.5	333.0	391.8	517.6	665.0	752.6	782.5	783.6
40°	746.4	615.5	453.6	363.9	345.4	423.7	582.5	757.8	845.4	867.1	870.2
42.5°	833.1	674.3	475.3	372.2	354.7	450.6	642.3	837.2	921.7	939.2	943.4
45°	917.6	732.0	498.0	379.4	359.8	469.1	695.9	907.3	989.8	997.0	999.0
47.5°	1010.4	788.7	524.8	389.7	363.9	485.6	744.4	972.2	1045.4	1044.4	1044.4
50°	1103.2	841.3	552.6	399.0	368.1	502.1	789.8	1023.8	1086.7	1076.4	1076.4
52.5°	1200.1	888.7	580.5	407.2	372.2	517.6	830.0	1069.2	1119.7	1104.2	1103.2
55°	1290.8	930.0	602.1	413.4	375.3	533.0	866.0	1110.4	1149.6	1130.0	1129.0
57.5°	1371.2	961.9	619.6	418.6	378.4	548.5	899.0	1145.4	1179.5	1151.6	1150.6
60°	1445.5	988.7	631.0	419.6	381.5	562.9	928.9	1178.4	1202.2	1174.3	1172.3
62.5°	1503.2	1006.3	634.1	416.5	382.5	574.3	955.7	1210.4	1227.9	1194.9	1190.8
65°	1535.2	1011.4	629.9	411.4	380.4	582.5	982.6	1238.2	1249.6	1215.6	1211.4
67.5°	1538.3	1004.2	619.6	401.1	373.2	587.7	1003.2	1263.0	1272.3	1236.2	1229.0
70°	1511.5	983.6	601.1	388.7	363.9	592.8	1024.8	1286.7	1291.9	1254.7	1243.4
72.5°	1449.6	944.4	576.3	372.2	352.6	593.9	1040.3	1304.2	1307.3	1268.1	1255.8
75°	1357.8	890.8	544.4	353.6	340.2	592.8	1053.7	1317.6	1320.7	1280.5	1268.1
77.5°	1243.4	827.9	507.3	329.9	327.9	588.7	1061.9	1322.8	1325.9	1287.7	1272.3
80°	1117.6	757.8	465.0	306.2	315.5	581.5	1059.9	1319.7	1323.8	1285.7	1270.2
82.5°	980.5	678.4	417.6	277.3	298.0	567.1	1046.5	1301.1	1307.3	1273.3	1262.0
85°	839.2	593.9	365.0	247.4	278.4	547.5	1018.6	1268.1	1276.4	1247.5	1238.2
87.5°	690.8	503.1	310.3	215.5	254.7	518.6	977.4	1220.7	1232.1	1210.4	1203.2
90°	545.4	409.3	255.7	187.6	233.0	488.7	925.8	1158.9	1178.4	1164.0	1155.8
92.5°	402.1	304.1	202.1	154.7	208.3	449.5	854.7	1079.5	1102.1	1097.0	1092.9
95°	273.2	217.5	153.6	125.8	181.5	403.1	773.3	987.7	1014.5	1017.6	1015.5
97.5°	191.8	150.5	116.5	104.1	158.8	355.7	686.7	878.4	915.5	920.7	921.7
100°	144.3	113.4	94.9	89.7	139.2	310.3	590.8	768.1	803.2	810.4	815.5
102.5°	117.5	94.9	80.4	79.4	122.7	266.0	496.9	646.4	686.7	695.9	702.1
105°	100.0	81.4	71.1	72.2	109.3	225.8	406.2	532.0	567.1	578.4	578.4
107.5°	87.6	72.2	62.9	65.0	96.9	190.7	324.8	420.7	449.5	457.8	462.9
110°	75.3	62.9	55.7	57.7	83.5	158.8	253.6	326.8	347.4	353.6	355.7



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	68.0	56.7	50.5	52.6	71.1	125.8	202.1	245.4	260.8	260.8	265.0
115°	61.9	52.6	46.4	47.4	60.8	99.0	152.6	187.6	194.9	191.8	194.9
117.5°	58.8	50.5	44.3	44.3	51.6	76.3	110.3	135.1	140.2	138.2	139.2
120°	54.6	48.5	42.3	41.2	45.4	59.8	78.4	91.8	96.9	96.9	95.9
122.5°	51.6	46.4	41.2	39.2	40.2	46.4	56.7	62.9	66.0	63.9	63.9
125°	48.5	44.3	38.1	36.1	35.1	37.1	40.2	42.3	43.3	43.3	44.3
127.5°	45.4	41.2	36.1	33.0	30.9	29.9	28.9	27.8	28.9	28.9	28.9
130°	41.2	38.1	33.0	29.9	26.8	23.7	20.6	19.6	19.6	19.6	19.6
132.5°	37.1	34.0	29.9	26.8	23.7	19.6	15.5	13.4	13.4	13.4	13.4
135°	34.0	30.9	26.8	22.7	19.6	15.5	11.3	10.3	10.3	10.3	10.3
137.5°	29.9	26.8	23.7	19.6	16.5	12.4	9.3	7.2	7.2	7.2	7.2
140°	25.8	23.7	19.6	16.5	13.4	9.3	6.2	5.2	5.2	5.2	5.2
142.5°	21.7	19.6	16.5	13.4	10.3	7.2	5.2	4.1	3.1	3.1	3.1
145°	17.5	15.5	13.4	10.3	7.2	6.2	4.1	3.1	3.1	3.1	3.1
147.5°	12.4	11.3	9.3	7.2	6.2	5.2	4.1	3.1	2.1	2.1	2.1
150°	6.2	6.2	5.2	5.2	4.1	4.1	3.1	2.1	1.0	1.0	1.0
152.5°	3.1	3.1	3.1	3.1	4.1	3.1	2.1	1.0	1.0	0.0	0.0
155°	1.0	1.0	2.1	2.1	3.1	2.1	1.0	1.0	0.0	0.0	0.0
157.5°	0.0	1.0	1.0	1.0	2.1	2.1	1.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	1.0	1.0	2.1	2.1	1.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	1.0	2.1	2.1	1.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	1.0	2.1	2.1	1.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	1.0	2.1	2.1	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	1.0	2.1	2.1	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	1.0	2.1	2.1	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	1.0	2.1	2.1	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	1.0	2.1	2.1	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)