

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: P266100

Luminaire Tested: **LXF.LXT-AF24-50-D-U-T3-A-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-19)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-50-D-U-T3-A-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4667.9 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U3 - G3

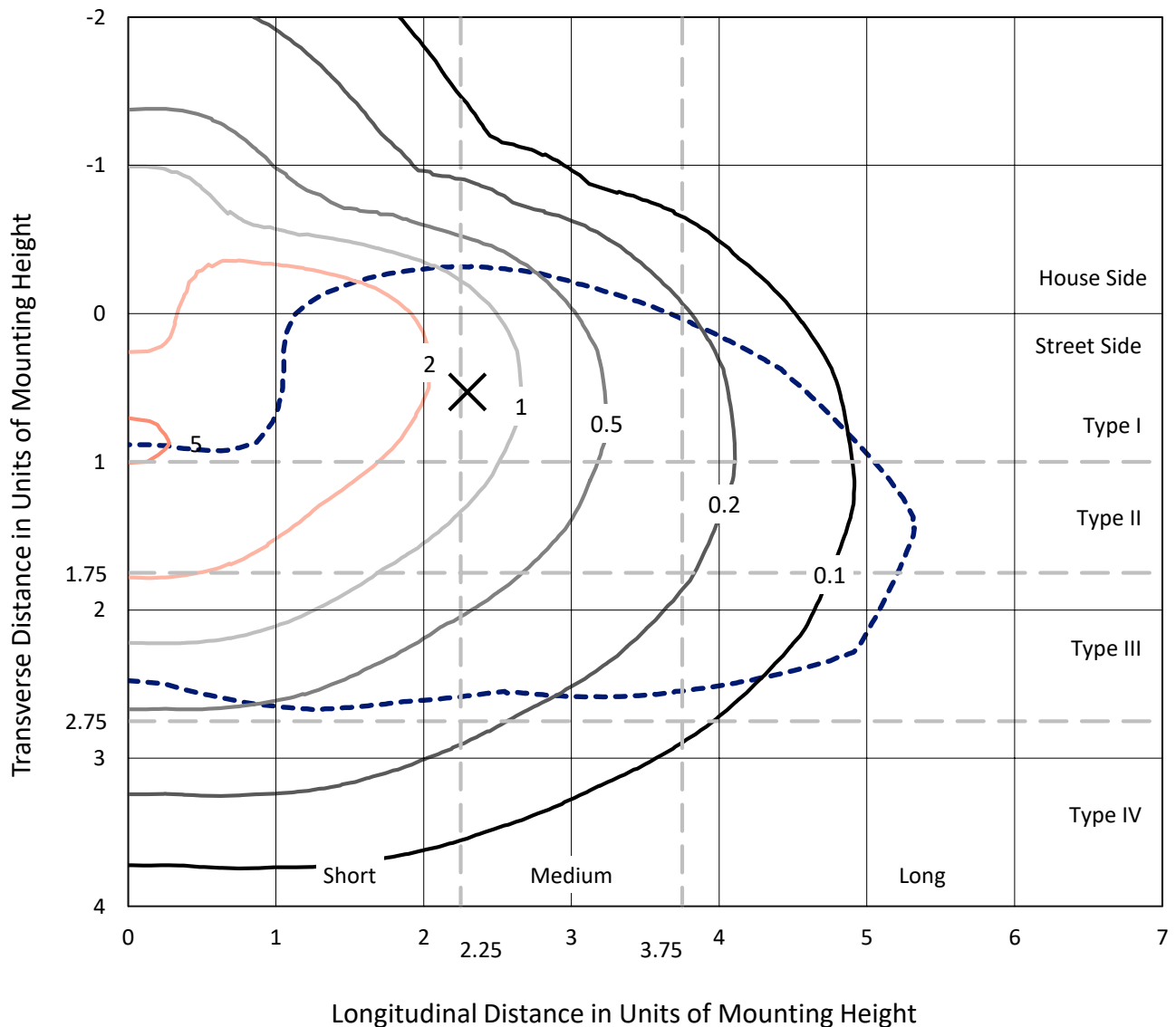
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

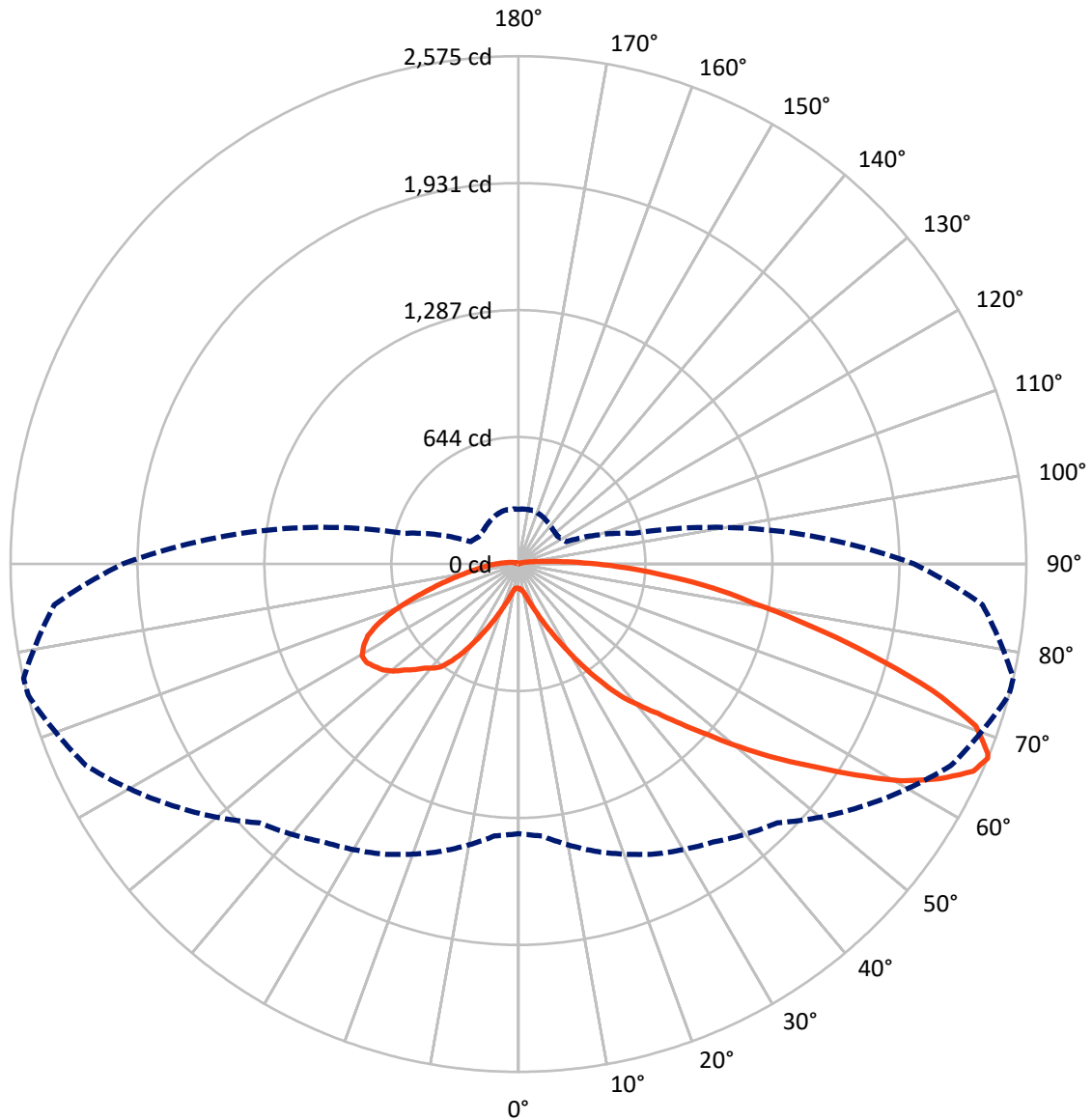
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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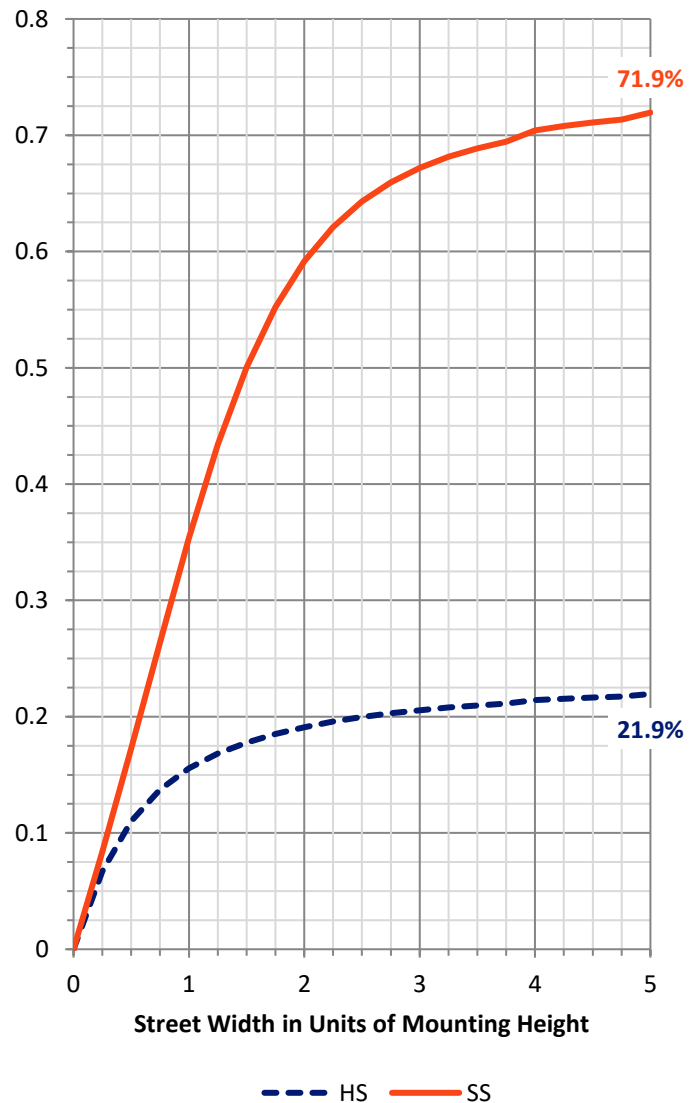
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1070.3	68.0	1138.4
	% Fixture	22.9	1.5	24.4
Street Side	Lumens	3441.0	88.5	3529.5
	% Fixture	73.7	1.9	75.6
Total	Lumens	4511.3	156.6	4667.9
	% Fixture	96.6	3.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.5	0.3
10°-20°	52.4	1.1
20°-30°	153.3	3.3
30°-40°	356.2	7.6
40°-50°	624.8	13.4
50°-60°	960.2	20.6
60°-70°	1187.4	25.4
70°-80°	828.9	17.8
80°-90°	335.5	7.2
90°-100°	99.1	2.1
100°-110°	32.0	0.7
110°-120°	13.6	0.3
120°-130°	7.0	0.2
130°-140°	3.6	0.1
140°-150°	1.1	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4511.3	96.6
0°-180°	4667.9	100.0



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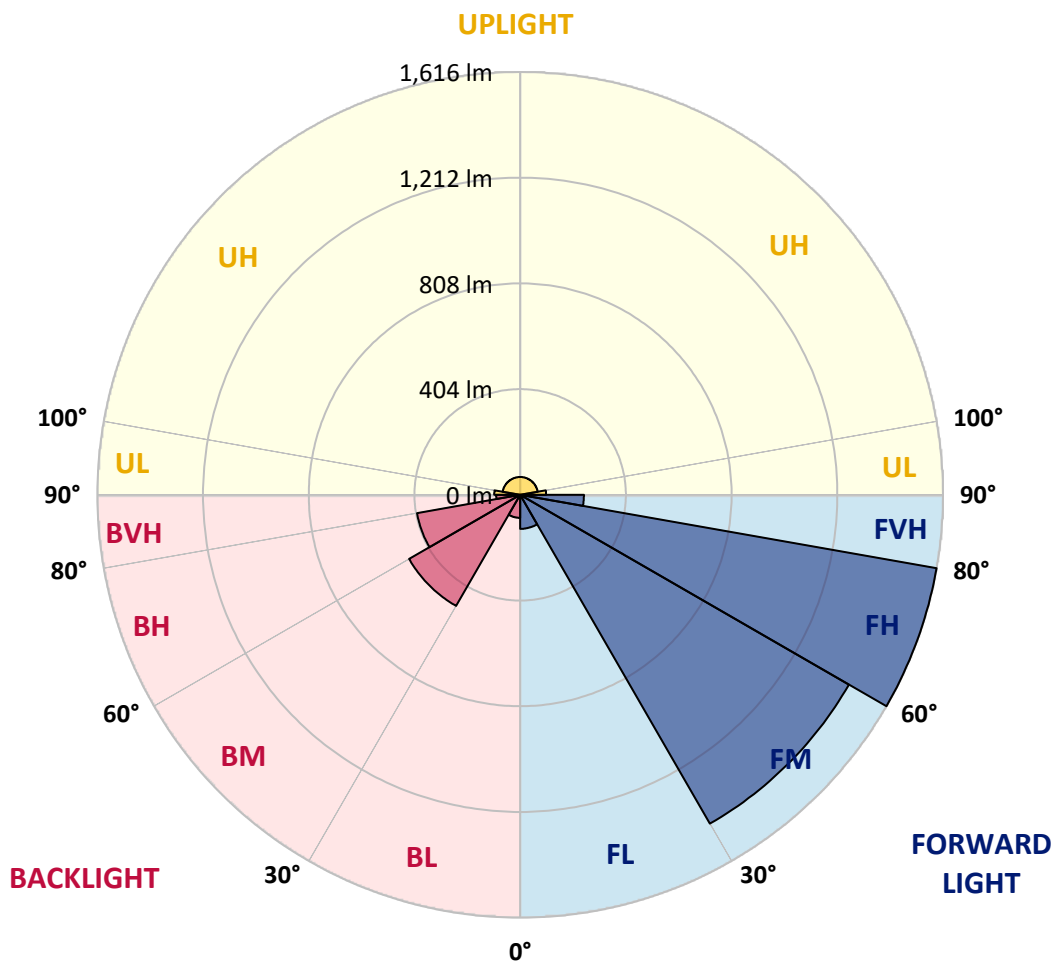
CATALOG NUMBER: LXF.LXT-AF24-50-D-U-T3-A-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	130.1	2.8			
FM	(30°-60°)	1451.0	31.1			
FH	(60°-80°)	1616.1	34.6			G1/1800
FVH	(80°-90°)	243.7	5.2			G3/500
BL	(0°-30°)	88.1	1.9	B0/110		
BM	(30°-60°)	490.2	10.5	B1/1000		
BH	(60°-80°)	400.3	8.6	B1/500		G1/500
BVH	(80°-90°)	91.8	2.0			G1/100
UL	(90°-100°)	99.1	2.1		U3/500	
UH	(100°-180°)	68.0	1.5		U3/500	

BUG Rating: B1-U3-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	124.1	124.1	124.1	124.1	124.1	124.1	124.1	124.1	124.1	124.1	124.1
2.5°	132.1	132.6	132.6	132.6	132.1	131.0	129.3	128.1	126.4	125.9	124.8
5°	142.1	142.1	142.1	141.7	140.4	138.2	136.0	133.2	129.7	129.3	127.0
7.5°	153.4	154.0	153.4	152.3	149.5	147.2	143.9	139.9	136.0	134.8	132.1
10°	169.7	169.7	168.5	166.4	162.4	157.9	154.0	149.5	145.5	144.4	141.0
12.5°	194.5	194.5	192.1	185.9	179.8	173.6	169.2	165.7	163.5	161.9	159.5
15°	225.8	226.5	223.0	213.4	205.6	196.1	192.1	191.6	191.0	189.4	187.0
17.5°	264.1	264.1	258.4	245.5	235.4	226.5	222.5	222.5	222.5	222.5	221.4
20°	309.6	310.2	302.9	284.4	273.7	262.9	259.0	259.6	261.9	262.5	262.5
22.5°	368.0	370.3	359.1	333.8	320.9	305.2	302.3	305.2	311.4	313.0	315.8
25°	447.9	444.4	429.8	396.7	377.6	358.5	354.0	361.8	373.6	377.0	383.1
27.5°	531.5	532.1	511.3	470.8	438.8	415.7	413.6	429.3	446.2	450.6	460.7
30°	638.2	639.5	608.0	557.9	510.1	481.0	481.0	506.9	532.6	540.1	556.3
32.5°	766.4	765.3	718.6	658.5	592.3	556.3	557.4	595.0	632.0	640.5	655.8
35°	915.4	913.7	851.9	772.6	684.4	637.7	642.7	690.5	738.2	746.2	770.3
37.5°	1067.5	1069.3	1000.7	900.1	786.0	724.8	734.4	791.1	849.5	855.1	874.3
40°	1205.3	1213.7	1144.6	1032.2	896.1	816.4	827.7	882.1	939.4	941.8	949.0
42.5°	1337.2	1338.5	1280.5	1160.9	1010.2	917.6	918.6	971.0	1025.4	1034.9	1038.4
45°	1421.6	1433.3	1386.8	1278.8	1125.4	1021.0	1011.4	1063.7	1144.0	1155.2	1155.2
47.5°	1517.6	1530.1	1476.6	1385.0	1236.6	1124.9	1117.0	1183.8	1279.9	1291.8	1287.4
50°	1625.6	1640.8	1601.9	1502.4	1347.4	1235.6	1249.1	1327.2	1443.4	1460.4	1455.3
52.5°	1707.6	1723.8	1700.2	1630.1	1471.6	1364.9	1379.4	1488.4	1617.0	1633.9	1614.9
55°	1738.0	1760.4	1767.7	1731.8	1599.7	1502.0	1546.9	1664.9	1791.3	1809.2	1789.1
57.5°	1736.9	1759.8	1787.9	1782.9	1707.0	1643.0	1708.7	1846.3	1999.2	2017.1	1996.4
60°	1724.4	1751.3	1803.1	1809.8	1767.1	1767.1	1873.3	2062.7	2215.5	2231.7	2172.2
62.5°	1617.0	1650.8	1745.1	1813.1	1800.3	1846.9	2023.9	2241.9	2389.8	2397.5	2285.7
65°	1482.8	1514.4	1618.2	1728.3	1789.7	1875.0	2122.2	2369.5	2524.0	2533.0	2372.2
67°	1366.5	1383.4	1507.5	1622.7	1720.6	1855.9	2137.3	2418.3	2572.8	2574.5	2361.6
67.5°	1324.9	1342.3	1468.8	1591.8	1696.3	1842.5	2129.5	2422.9	2570.1	2566.6	2341.4
70°	1106.9	1117.0	1249.1	1407.6	1525.0	1696.9	2031.7	2335.8	2471.1	2461.0	2203.2
72.5°	818.0	826.5	963.6	1156.4	1295.1	1484.4	1820.0	2150.4	2225.6	2198.2	1897.0
75°	566.9	573.7	680.5	845.0	1027.1	1227.2	1555.9	1830.0	1885.7	1851.3	1572.2
77.5°	374.8	379.9	462.9	592.8	760.2	981.0	1265.9	1512.0	1557.0	1517.1	1262.6
80°	237.7	241.6	303.4	405.7	557.4	769.8	1016.4	1230.0	1249.1	1211.5	986.7
82.5°	150.6	154.5	196.1	274.7	400.0	586.1	799.5	991.2	1017.1	994.6	771.5
85°	96.7	102.2	132.1	188.3	283.8	429.8	623.2	788.4	785.5	748.5	566.4
87.5°	68.5	73.0	95.5	134.2	200.1	304.5	455.7	572.0	565.3	540.5	393.8
90°	51.2	54.4	70.7	97.7	143.9	213.4	315.8	396.2	376.5	361.3	260.1
92.5°	37.6	40.5	52.8	71.3	102.9	149.5	208.4	256.2	236.0	225.4	164.6
95°	27.6	29.3	38.7	52.2	74.6	103.9	136.5	161.2	144.9	137.7	103.9
97.5°	21.4	22.5	29.7	40.5	55.7	74.6	92.2	101.1	92.2	87.7	72.0
100°	18.0	18.5	24.8	32.0	43.8	56.8	65.8	69.1	63.5	60.6	52.2
102.5°	15.2	15.7	20.2	26.4	35.5	44.9	49.4	50.6	45.5	43.8	39.3
105°	12.9	13.5	17.3	22.5	29.7	36.6	38.7	37.6	33.1	32.0	29.7
107.5°	11.1	11.8	14.6	19.1	24.8	30.4	30.9	28.7	24.8	23.5	22.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	10.2	10.2	12.9	16.3	21.4	25.3	25.3	21.9	18.5	18.0	18.0
112.5°	9.1	9.1	11.1	14.1	18.5	21.4	20.8	17.3	14.1	13.5	14.1
115°	7.8	7.8	9.5	12.9	16.3	18.5	17.3	14.1	10.7	10.7	11.8
117.5°	7.2	7.2	9.1	11.8	14.6	16.3	14.6	11.1	9.1	9.1	9.5
120°	6.7	6.7	8.4	10.7	13.5	14.6	12.9	9.5	7.2	7.2	8.4
122.5°	6.7	6.7	7.8	10.2	12.3	12.9	11.1	8.4	6.2	6.7	7.2
125°	6.7	7.2	7.8	9.5	11.1	11.1	9.5	7.2	5.6	5.6	6.7
127.5°	7.2	7.2	7.8	9.1	10.2	10.2	8.4	6.2	5.6	5.6	6.2
130°	7.8	7.8	7.8	8.4	9.1	8.4	7.2	5.6	5.1	5.1	5.6
132.5°	7.8	7.8	7.8	7.8	7.8	7.2	6.2	5.1	4.5	5.1	5.6
135°	7.2	7.2	7.2	7.2	6.7	6.2	5.1	4.0	4.0	4.0	4.5
137.5°	6.7	6.2	6.2	6.2	5.6	5.1	4.0	2.9	3.4	3.4	4.0
140°	5.6	5.6	5.6	5.1	4.5	4.0	2.9	2.2	2.9	2.9	3.4
142.5°	4.5	4.5	4.5	4.0	3.4	2.9	1.6	1.6	2.2	2.9	2.9
145°	3.4	3.4	3.4	2.9	2.2	1.6	1.1	1.6	2.2	2.2	2.2
147.5°	2.2	2.2	2.2	2.2	1.1	0.5	1.1	1.1	1.6	1.6	2.2
150°	1.1	1.1	1.6	1.1	0.5	0.5	0.5	1.1	1.1	1.6	1.6
152.5°	0.5	0.5	1.1	0.5	0.0	0.0	0.0	0.5	1.1	1.1	1.1
155°	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	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°	124.1	124.1	124.1	124.1	124.1	124.1	124.1	124.1	124.1	124.1	124.1
2.5°	124.1	123.5	122.4	120.8	119.7	119.1	119.1	117.9	117.9	117.9	117.4
5°	126.4	124.8	122.4	120.3	117.9	116.3	115.7	114.7	113.5	113.5	112.9
7.5°	129.7	128.1	124.1	120.8	117.4	115.3	114.1	112.9	111.7	111.3	110.8
10°	138.8	136.5	130.3	124.8	120.3	116.9	115.3	114.1	112.9	112.9	112.4
12.5°	157.4	153.4	145.5	136.0	126.4	121.5	119.7	123.5	125.4	127.0	127.0
15°	184.8	180.9	169.2	155.0	141.0	131.5	134.2	139.9	144.4	147.2	147.2
17.5°	218.6	212.4	197.7	177.5	159.0	152.3	151.2	157.4	164.1	168.1	168.1
20°	258.4	251.2	231.0	203.3	182.6	172.6	170.3	175.9	183.8	189.9	189.9
22.5°	310.2	301.7	271.9	233.2	206.3	192.1	189.4	195.0	206.3	214.7	214.1
25°	377.6	364.2	323.1	269.1	229.7	210.2	207.9	216.9	232.0	243.9	245.5
27.5°	455.7	436.5	375.3	307.8	252.9	225.8	226.5	238.8	257.4	270.3	270.3
30°	544.0	523.7	438.3	346.1	272.5	239.4	241.6	258.0	276.5	289.3	289.3
32.5°	646.2	616.3	504.6	383.8	290.0	249.5	251.7	271.4	290.0	303.9	304.5
35°	749.5	709.1	564.7	414.7	304.5	258.0	259.0	282.1	302.3	318.0	319.6
37.5°	844.0	791.6	618.0	435.9	311.4	261.9	263.6	290.0	313.5	328.2	328.2
40°	911.4	845.7	643.9	441.1	313.0	262.9	268.1	295.1	313.0	319.6	316.9
42.5°	987.7	906.8	660.3	432.7	306.9	262.5	270.3	291.6	301.2	301.7	299.0
45°	1094.6	989.5	690.0	425.3	295.5	261.2	267.4	283.1	286.0	280.9	277.5
47.5°	1218.2	1079.4	714.7	416.4	288.3	258.4	263.6	273.1	270.7	261.9	259.0
50°	1357.5	1193.5	745.7	405.1	282.6	255.1	259.6	265.8	262.9	253.4	251.2
52.5°	1494.1	1293.5	765.3	393.3	277.5	253.4	256.7	264.1	260.7	249.5	246.0
55°	1637.3	1395.2	769.8	373.1	273.7	253.4	257.4	265.2	261.2	249.5	246.0
57.5°	1806.0	1504.8	769.8	349.5	267.4	254.5	259.0	266.8	263.6	251.7	248.9
60°	1943.0	1582.9	753.5	328.7	260.1	254.5	259.6	268.1	267.4	259.0	257.4
62.5°	2018.9	1611.5	709.1	305.7	254.0	252.9	260.1	270.7	274.7	268.6	266.8
65°	2059.4	1601.9	657.4	282.6	248.3	249.5	260.1	272.5	278.7	275.3	273.1
67°	2006.5	1534.6	600.6	266.8	242.7	246.7	259.0	272.5	280.9	279.8	277.5
67.5°	1980.0	1507.5	584.3	264.1	241.0	246.0	258.4	272.5	280.9	280.9	278.7
70°	1815.5	1355.8	499.5	243.4	230.3	237.7	252.2	269.8	279.3	279.8	278.7
72.5°	1534.6	1114.7	412.4	223.6	216.9	225.4	243.4	261.2	270.3	269.1	268.1
75°	1250.3	899.1	336.0	204.5	201.2	210.7	227.0	243.9	250.1	247.3	246.0
77.5°	990.0	701.2	275.3	185.9	185.4	193.9	206.8	219.1	222.5	217.5	216.9
80°	760.8	536.1	225.4	170.8	169.2	175.3	184.3	192.7	195.0	189.9	188.9
82.5°	582.7	406.3	187.0	154.0	153.4	156.8	163.0	168.5	172.6	167.4	165.7
85°	421.5	297.2	157.4	136.0	136.5	138.2	142.1	146.1	151.8	150.0	147.9
87.5°	293.8	215.8	133.8	119.1	119.1	120.3	122.4	126.4	133.8	133.2	131.0
90°	200.1	155.6	112.4	103.9	102.2	102.9	104.6	106.8	113.5	112.9	111.3
92.5°	133.8	110.8	91.0	86.0	85.3	86.0	86.0	87.7	91.0	89.3	87.7
95°	89.3	79.8	72.6	69.7	68.5	69.1	69.1	68.0	70.2	67.5	65.8
97.5°	64.0	60.1	58.4	56.1	54.4	55.1	55.1	54.0	54.4	50.6	49.4
100°	48.9	47.8	47.8	45.5	43.8	44.3	44.3	43.8	43.3	38.7	38.2
102.5°	38.7	38.2	38.7	37.1	35.5	36.6	35.9	35.5	34.2	30.4	29.7
105°	30.4	30.4	32.0	30.4	29.3	29.7	29.7	28.7	27.6	24.2	24.2
107.5°	23.5	24.2	25.8	24.8	24.2	24.8	24.2	23.0	21.4	19.1	19.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	18.5	19.7	21.4	20.8	20.2	20.8	19.7	18.5	16.9	15.7	15.7
112.5°	15.2	15.7	17.3	17.3	16.9	17.3	16.3	14.6	13.5	12.9	12.9
115°	12.3	13.5	14.6	14.6	14.6	14.6	13.5	11.8	10.7	10.7	10.7
117.5°	10.7	11.1	12.3	12.3	12.3	12.3	11.1	9.5	8.4	9.1	9.1
120°	9.1	9.5	10.7	10.7	10.7	10.7	9.5	7.8	6.7	7.2	7.2
122.5°	7.8	8.4	9.1	9.5	9.5	9.1	7.8	6.7	5.6	6.2	6.2
125°	7.2	7.8	7.8	8.4	7.8	7.8	6.7	5.6	5.1	5.6	5.6
127.5°	6.7	7.2	7.2	7.2	7.2	6.2	5.6	4.5	4.0	4.5	5.1
130°	6.2	6.7	6.7	6.2	5.6	5.1	4.5	4.0	3.4	4.0	4.5
132.5°	6.2	6.2	6.2	5.6	5.1	4.0	3.4	2.9	2.9	3.4	4.0
135°	5.1	5.1	5.1	4.5	3.4	2.9	2.2	2.2	2.2	2.9	2.9
137.5°	4.0	4.5	4.0	3.4	2.9	2.2	1.6	1.6	1.6	2.2	2.2
140°	3.4	3.4	3.4	2.9	2.2	1.1	0.5	0.5	1.1	1.1	1.6
142.5°	2.9	3.4	2.9	2.2	1.6	0.5	0.0	0.5	0.5	0.5	0.5
145°	2.9	2.9	2.2	1.6	1.1	0.5	0.0	0.0	0.5	0.0	0.0
147.5°	2.2	2.2	1.6	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.6	1.6	1.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.1	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	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

(END OF REPORT)