

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: P266187

Luminaire Tested: **LXF.LXT-AF24-80-D-U-T3-A-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266187
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-AF24-80-D-U-T3-A-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 6612.2 lumens
Efficiency: N/A
Efficacy: 79.7 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: B2 - U3 - G3

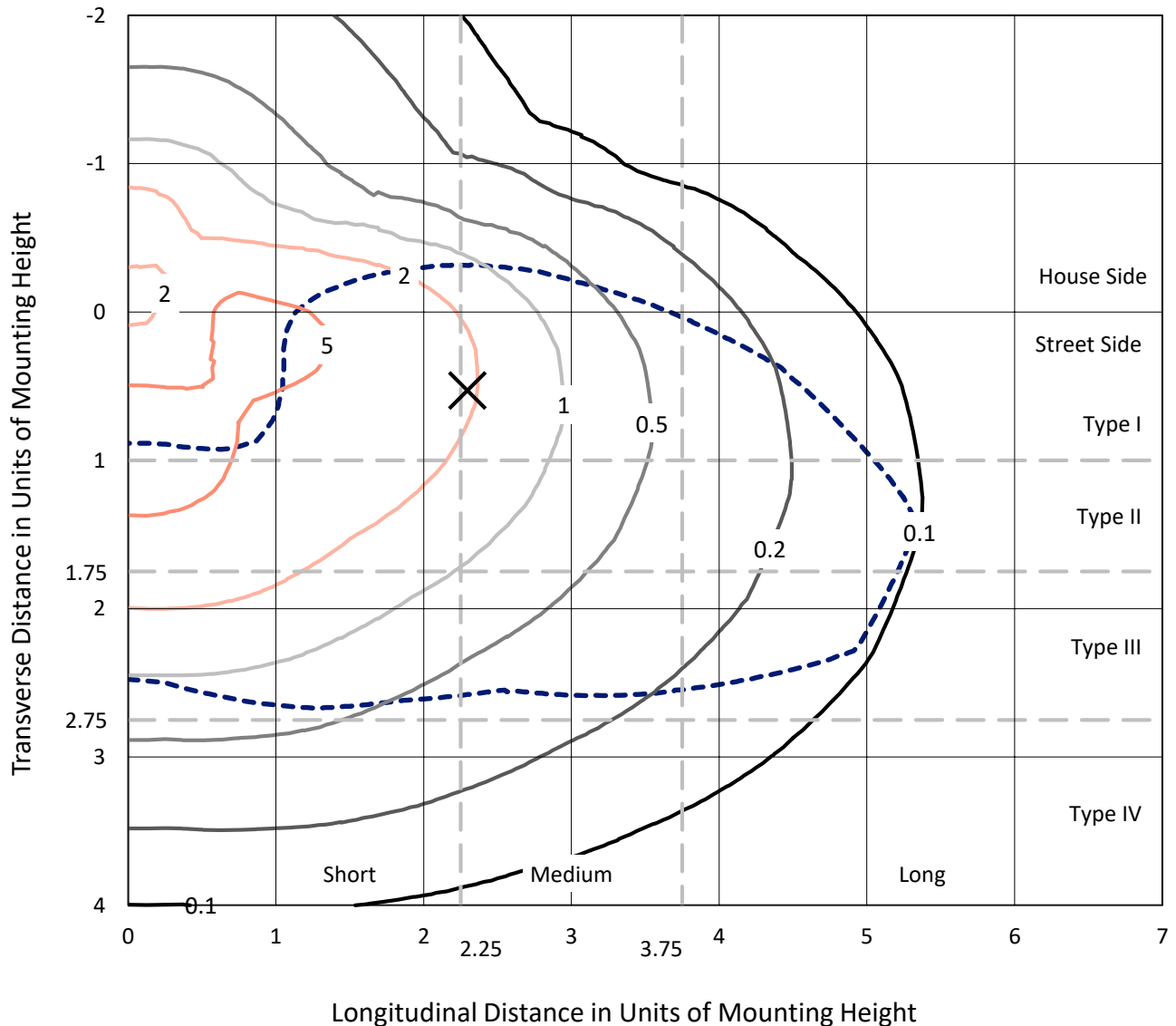
Input Watts (W): 83
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

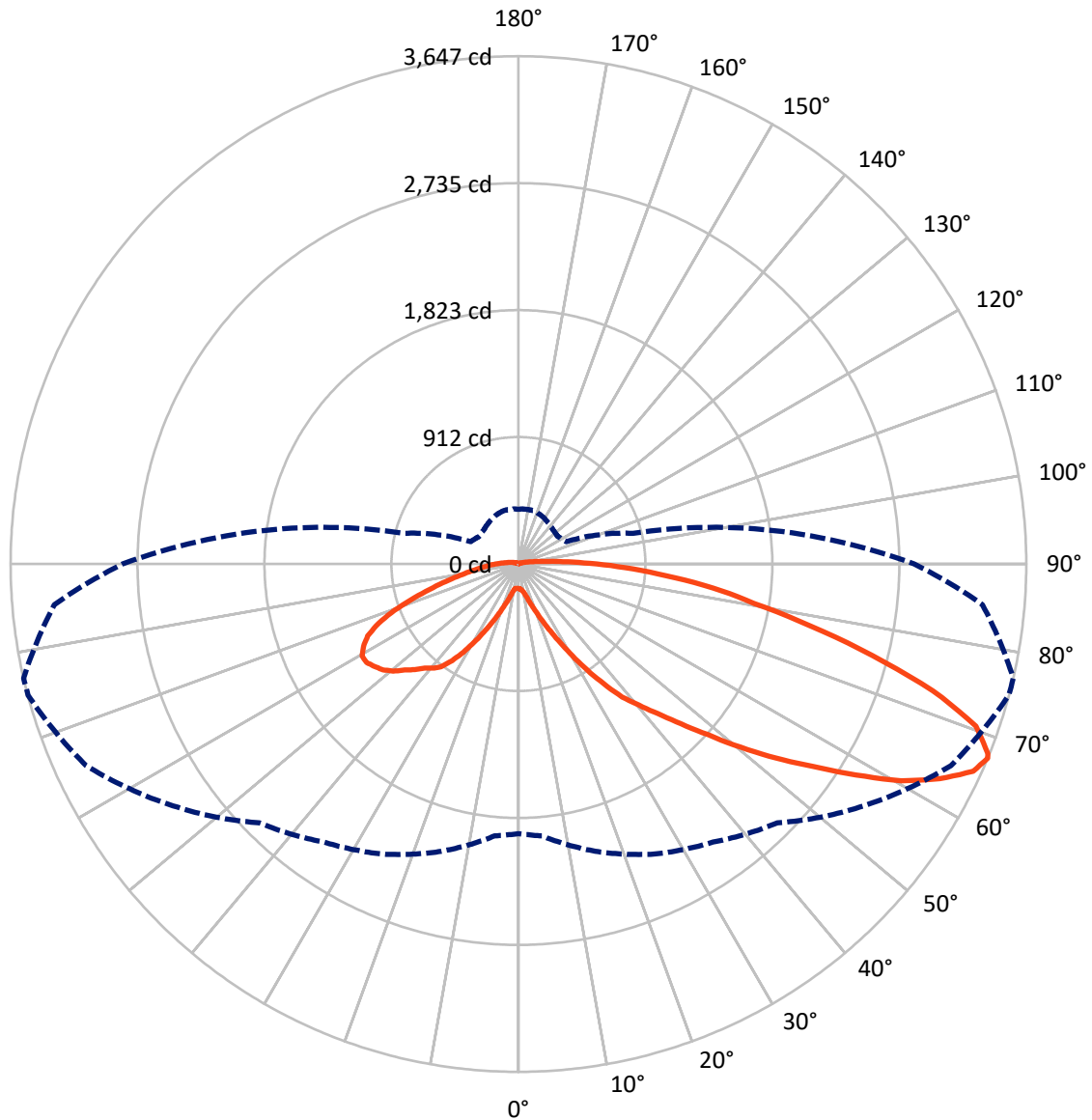
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 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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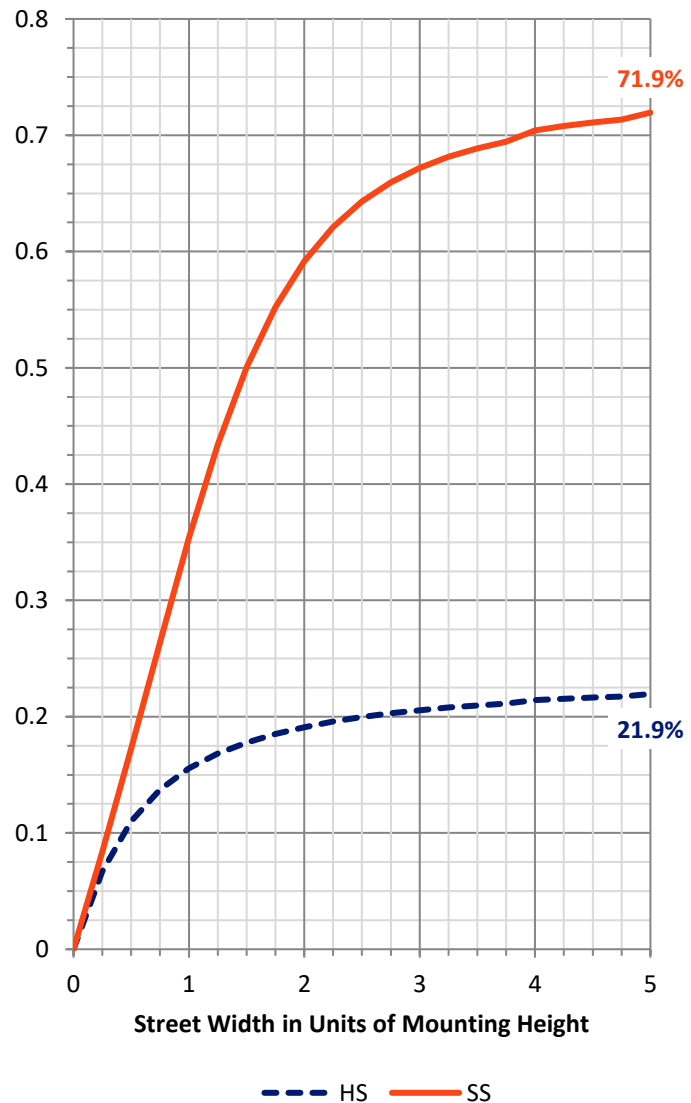
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1516.1	96.4	1612.5
	% Fixture	22.9	1.5	24.4
Street Side	Lumens	4874.2	125.5	4999.7
	% Fixture	73.7	1.9	75.6
Total	Lumens	6390.4	221.9	6612.2
	% Fixture	96.6	3.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.7	0.3
10°-20°	74.3	1.1
20°-30°	217.1	3.3
30°-40°	504.6	7.6
40°-50°	885.1	13.4
50°-60°	1360.1	20.6
60°-70°	1682.0	25.4
70°-80°	1174.2	17.8
80°-90°	475.3	7.2
90°-100°	140.4	2.1
100°-110°	45.3	0.7
110°-120°	19.3	0.3
120°-130°	10.0	0.2
130°-140°	5.1	0.1
140°-150°	1.5	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6390.4	96.6
0°-180°	6612.2	100.0



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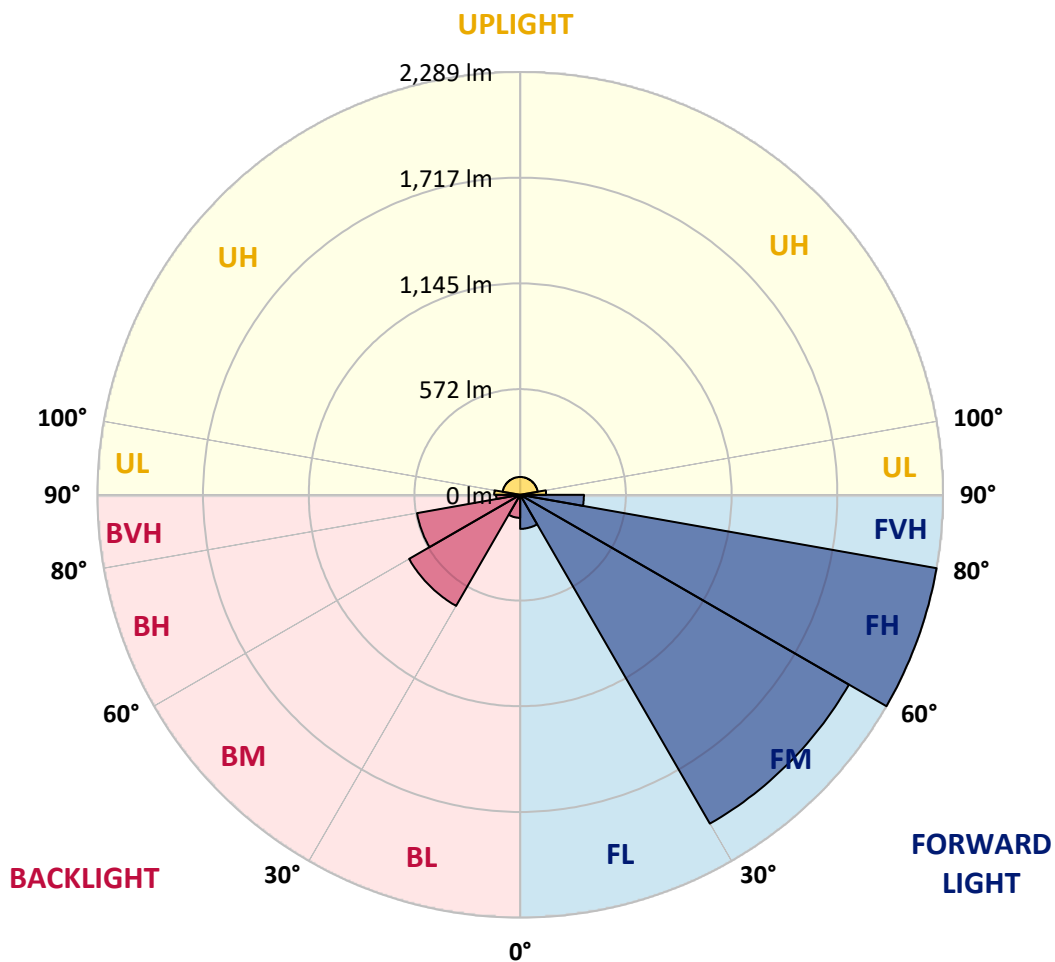
CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T3-A-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	184.4	2.8			
FM	(30°-60°)	2055.4	31.1			
FH	(60°-80°)	2289.2	34.6			G2/5000
FVH	(80°-90°)	345.3	5.2			G3/500
BL	(0°-30°)	124.7	1.9	B1/500		
BM	(30°-60°)	694.4	10.5	B1/1000		
BH	(60°-80°)	567.0	8.6	B2/1000		G2/1000
BVH	(80°-90°)	130.0	2.0			G2/225
UL	(90°-100°)	140.4	2.1		U3/500	
UH	(100°-180°)	96.4	1.5		U3/500	

BUG Rating: B2-U3-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9
2.5°	187.0	187.8	187.8	187.8	187.0	185.4	183.1	181.5	179.1	178.4	176.6
5°	201.4	201.4	201.4	200.6	199.0	195.8	192.5	188.6	183.9	183.1	179.9
7.5°	217.3	218.1	217.3	215.8	211.7	208.5	203.7	198.2	192.5	191.0	187.0
10°	240.3	240.3	238.8	235.5	230.1	223.7	218.1	211.7	206.2	204.5	199.8
12.5°	275.4	275.4	272.1	263.5	254.7	246.0	239.6	234.7	231.7	229.2	226.1
15°	319.9	320.8	315.9	302.5	291.3	277.8	272.1	271.4	270.6	268.2	265.0
17.5°	374.1	374.1	366.1	347.9	333.5	320.8	315.1	315.1	315.1	315.1	313.6
20°	438.6	439.4	429.0	402.7	387.6	372.4	366.9	367.8	370.9	371.7	371.7
22.5°	521.3	524.5	508.6	472.8	454.5	432.2	428.2	432.2	441.0	443.4	447.3
25°	634.4	629.6	609.0	561.9	534.9	507.8	501.4	512.6	529.3	534.0	542.8
27.5°	753.0	753.8	724.4	667.0	621.5	589.0	585.9	608.2	632.0	638.3	652.7
30°	904.1	905.9	861.1	790.4	722.6	681.4	681.4	717.9	754.5	764.8	788.0
32.5°	1085.6	1084.1	1018.0	932.8	838.8	788.0	789.6	842.9	895.4	907.4	928.8
35°	1296.6	1294.2	1206.7	1094.3	969.5	903.3	910.5	978.2	1045.8	1056.9	1091.3
37.5°	1512.2	1514.6	1417.5	1275.1	1113.4	1026.8	1040.2	1120.6	1203.4	1211.5	1238.5
40°	1707.3	1719.1	1621.4	1462.1	1269.6	1156.5	1172.4	1249.6	1330.7	1334.0	1344.4
42.5°	1894.3	1896.0	1813.9	1644.3	1431.1	1299.8	1301.4	1375.3	1452.6	1466.2	1470.9
45°	2013.7	2030.3	1964.4	1811.5	1594.2	1446.2	1432.6	1506.6	1620.5	1636.4	1636.4
47.5°	2149.9	2167.3	2091.8	1962.0	1751.9	1593.5	1582.4	1677.0	1813.0	1829.8	1823.5
50°	2302.6	2324.2	2269.2	2128.4	1908.5	1750.3	1769.3	1880.0	2044.7	2068.5	2061.4
52.5°	2418.9	2442.0	2408.4	2309.0	2084.5	1933.3	1954.1	2108.4	2290.7	2314.6	2287.4
55°	2461.7	2493.7	2503.9	2453.0	2266.1	2127.5	2191.1	2358.3	2537.4	2562.9	2534.2
57.5°	2460.2	2492.8	2532.6	2525.4	2418.0	2327.2	2420.5	2615.4	2831.8	2857.4	2828.0
60°	2442.8	2480.8	2554.2	2563.7	2503.1	2503.1	2653.7	2921.8	3138.3	3161.4	3077.1
62.5°	2290.7	2338.5	2472.1	2568.4	2550.2	2616.3	2866.9	3175.8	3385.1	3396.2	3237.9
65°	2100.4	2145.1	2292.3	2448.3	2535.0	2656.0	3006.2	3356.3	3575.3	3588.0	3360.4
67°	1935.7	1959.6	2135.5	2298.7	2437.1	2628.9	3027.6	3425.6	3644.6	3646.8	3345.3
67.5°	1876.7	1901.4	2080.6	2254.8	2402.8	2609.8	3016.6	3432.1	3640.7	3635.8	3316.6
70°	1568.0	1582.4	1769.3	1993.8	2160.2	2403.7	2878.1	3308.6	3500.4	3486.1	3120.8
72.5°	1158.9	1170.9	1365.1	1638.0	1834.6	2102.8	2578.0	3046.1	3152.6	3113.6	2687.0
75°	803.1	812.6	963.9	1197.1	1455.0	1738.3	2203.9	2592.2	2671.1	2622.6	2227.0
77.5°	530.9	538.1	655.9	839.6	1076.9	1389.7	1793.2	2141.7	2205.5	2148.9	1788.4
80°	336.7	342.3	429.7	574.6	789.6	1090.5	1439.9	1742.4	1769.3	1716.0	1397.7
82.5°	213.3	218.8	277.8	389.2	566.7	830.2	1132.7	1404.1	1440.6	1408.8	1092.8
85°	136.9	144.8	187.0	266.6	401.9	609.0	882.7	1116.8	1112.7	1060.2	802.2
87.5°	97.0	103.5	135.4	190.3	283.3	431.4	645.5	810.2	800.7	765.6	557.9
90°	72.5	77.3	100.3	138.5	203.7	302.5	447.3	561.1	533.2	511.8	368.6
92.5°	53.3	57.3	74.7	101.1	145.6	211.7	295.4	362.9	334.3	319.2	233.2
95°	38.9	41.4	54.9	74.0	105.9	147.2	193.4	228.3	205.4	195.0	147.2
97.5°	30.3	31.8	42.2	57.3	78.8	105.9	130.6	143.3	130.6	124.1	101.9
100°	25.5	26.3	35.0	45.4	62.2	80.4	93.2	97.8	89.9	86.0	74.0
102.5°	21.5	22.3	28.7	37.4	50.1	63.7	70.1	71.7	64.5	62.2	55.8
105°	18.3	19.1	24.7	31.8	42.2	51.7	54.9	53.3	46.9	45.4	42.2
107.5°	15.9	16.7	20.8	27.0	35.0	42.9	43.7	40.7	35.0	33.4	31.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	14.4	14.4	18.3	23.0	30.3	35.8	35.8	31.0	26.3	25.5	25.5
112.5°	12.8	12.8	15.9	19.9	26.3	30.3	29.5	24.7	19.9	19.1	19.9
115°	11.1	11.1	13.6	18.3	23.0	26.3	24.7	19.9	15.1	15.1	16.7
117.5°	10.3	10.3	12.8	16.7	20.8	23.0	20.8	15.9	12.8	12.8	13.6
120°	9.5	9.5	11.9	15.1	19.1	20.8	18.3	13.6	10.3	10.3	11.9
122.5°	9.5	9.5	11.1	14.4	17.4	18.3	15.9	11.9	8.8	9.5	10.3
125°	9.5	10.3	11.1	13.6	15.9	15.9	13.6	10.3	7.9	7.9	9.5
127.5°	10.3	10.3	11.1	12.8	14.4	14.4	11.9	8.8	7.9	7.9	8.8
130°	11.1	11.1	11.1	11.9	12.8	11.9	10.3	7.9	7.1	7.1	7.9
132.5°	11.1	11.1	11.1	11.1	11.1	10.3	8.8	7.1	6.4	7.1	7.9
135°	10.3	10.3	10.3	10.3	9.5	8.8	7.1	5.6	5.6	5.6	6.4
137.5°	9.5	8.8	8.8	8.8	7.9	7.1	5.6	4.0	4.9	4.9	5.6
140°	7.9	7.9	7.9	7.1	6.4	5.6	4.0	3.1	4.0	4.0	4.9
142.5°	6.4	6.4	6.4	5.6	4.9	4.0	2.3	2.3	3.1	4.0	4.0
145°	4.9	4.9	4.9	4.0	3.1	2.3	1.5	2.3	3.1	3.1	3.1
147.5°	3.1	3.1	3.1	3.1	1.5	0.8	1.5	1.5	2.3	2.3	3.1
150°	1.5	1.5	2.3	1.5	0.8	0.8	0.8	1.5	1.5	2.3	2.3
152.5°	0.8	0.8	1.5	0.8	0.0	0.0	0.0	0.8	1.5	1.5	1.5
155°	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.5
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
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°	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9
2.5°	175.9	175.1	173.6	171.1	169.5	168.7	168.7	167.2	167.2	167.2	166.4
5°	179.1	176.6	173.6	170.3	167.2	164.7	164.0	162.4	160.7	160.7	160.0
7.5°	183.9	181.5	175.9	171.1	166.4	163.1	161.5	160.0	158.5	157.7	156.8
10°	196.5	193.4	184.6	176.6	170.3	165.6	163.1	161.5	160.0	160.0	159.2
12.5°	222.9	217.3	206.2	192.5	179.1	171.9	169.5	175.1	177.4	179.9	179.9
15°	261.9	256.2	239.6	219.6	199.8	186.3	190.3	198.2	204.5	208.5	208.5
17.5°	309.6	300.8	280.2	251.5	225.2	215.8	214.1	222.9	232.4	238.1	238.1
20°	366.1	355.8	327.2	288.1	258.7	244.3	241.1	249.1	260.2	269.0	269.0
22.5°	439.4	427.5	385.3	330.2	292.0	272.1	268.2	276.1	292.0	304.0	303.3
25°	534.9	515.7	457.6	381.2	325.5	297.7	294.5	307.2	328.7	345.4	347.9
27.5°	645.5	618.5	531.6	436.1	358.2	319.9	320.8	338.3	364.5	382.9	382.9
30°	770.4	741.8	620.8	490.3	386.0	339.1	342.3	365.3	391.7	409.8	409.8
32.5°	915.4	873.2	714.7	543.7	410.6	353.5	356.5	384.5	410.6	430.6	431.4
35°	1061.7	1004.5	799.9	587.4	431.4	365.3	366.9	399.6	428.2	450.5	452.8
37.5°	1195.5	1121.4	875.5	617.7	441.0	370.9	373.2	410.6	444.1	464.9	464.9
40°	1291.0	1197.9	912.0	624.9	443.4	372.4	379.7	417.8	443.4	452.8	449.0
42.5°	1399.2	1284.7	935.2	612.9	434.6	371.7	382.9	413.1	426.6	427.5	423.5
45°	1550.5	1401.6	977.4	602.6	418.7	370.1	378.8	401.2	405.1	397.9	393.2
47.5°	1725.6	1528.9	1012.4	589.7	408.3	366.1	373.2	386.8	383.7	370.9	366.9
50°	1922.9	1690.5	1056.1	573.8	400.4	361.4	367.8	376.5	372.4	359.0	355.8
52.5°	2116.3	1832.3	1084.1	557.2	393.2	359.0	363.8	374.1	369.4	353.5	348.6
55°	2319.3	1976.4	1090.5	528.6	387.6	359.0	364.5	375.8	370.1	353.5	348.6
57.5°	2558.2	2131.5	1090.5	495.1	378.8	360.6	366.9	378.0	373.2	356.5	352.6
60°	2752.2	2242.1	1067.4	465.6	368.6	360.6	367.8	379.7	378.8	366.9	364.5
62.5°	2859.8	2282.8	1004.5	433.1	359.7	358.2	368.6	383.7	389.2	380.4	378.0
65°	2917.1	2269.2	931.3	400.4	351.7	353.5	368.6	386.0	394.7	390.0	386.8
67°	2842.2	2173.7	850.9	378.0	343.8	349.4	366.9	386.0	397.9	396.3	393.2
67.5°	2804.9	2135.5	827.8	374.1	341.4	348.6	366.1	386.0	397.9	397.9	394.7
70°	2571.7	1920.5	707.5	344.6	326.4	336.7	357.3	382.0	395.6	396.3	394.7
72.5°	2173.7	1579.1	584.2	316.8	307.2	319.2	344.6	370.1	382.9	381.2	379.7
75°	1770.9	1273.4	475.9	289.8	284.9	298.4	321.6	345.4	354.2	350.2	348.6
77.5°	1402.4	993.3	390.0	263.5	262.7	274.6	292.8	310.5	315.1	307.9	307.2
80°	1077.6	759.2	319.2	242.0	239.6	248.3	261.0	273.1	276.1	269.0	267.4
82.5°	825.4	575.5	265.0	218.1	217.3	222.2	230.9	238.8	244.3	237.2	234.7
85°	597.0	421.0	222.9	192.5	193.4	195.8	201.4	206.9	215.0	212.4	209.3
87.5°	416.3	305.7	189.5	168.7	168.7	170.3	173.6	179.1	189.5	188.6	185.4
90°	283.3	220.4	159.2	147.2	144.8	145.6	148.0	151.3	160.7	160.0	157.7
92.5°	189.5	156.8	128.9	121.8	121.0	121.8	121.8	124.1	128.9	126.5	124.1
95°	126.5	113.0	102.6	98.8	97.0	97.8	97.8	96.3	99.5	95.5	93.2
97.5°	90.6	85.2	82.7	79.6	77.3	78.1	78.1	76.4	77.3	71.7	70.1
100°	69.3	67.6	67.6	64.5	62.2	62.9	62.9	62.2	61.3	54.9	54.1
102.5°	54.9	54.1	54.9	52.6	50.1	51.7	50.9	50.1	48.6	42.9	42.2
105°	42.9	42.9	45.4	42.9	41.4	42.2	42.2	40.7	38.9	34.2	34.2
107.5°	33.4	34.2	36.7	35.0	34.2	35.0	34.2	32.6	30.3	27.0	27.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	26.3	27.8	30.3	29.5	28.7	29.5	27.8	26.3	23.9	22.3	22.3
112.5°	21.5	22.3	24.7	24.7	23.9	24.7	23.0	20.8	19.1	18.3	18.3
115°	17.4	19.1	20.8	20.8	20.8	20.8	19.1	16.7	15.1	15.1	15.1
117.5°	15.1	15.9	17.4	17.4	17.4	17.4	15.9	13.6	11.9	12.8	12.8
120°	12.8	13.6	15.1	15.1	15.1	15.1	13.6	11.1	9.5	10.3	10.3
122.5°	11.1	11.9	12.8	13.6	13.6	12.8	11.1	9.5	7.9	8.8	8.8
125°	10.3	11.1	11.1	11.9	11.1	11.1	9.5	7.9	7.1	7.9	7.9
127.5°	9.5	10.3	10.3	10.3	10.3	8.8	7.9	6.4	5.6	6.4	7.1
130°	8.8	9.5	9.5	8.8	7.9	7.1	6.4	5.6	4.9	5.6	6.4
132.5°	8.8	8.8	8.8	7.9	7.1	5.6	4.9	4.0	4.0	4.9	5.6
135°	7.1	7.1	7.1	6.4	4.9	4.0	3.1	3.1	3.1	4.0	4.0
137.5°	5.6	6.4	5.6	4.9	4.0	3.1	2.3	2.3	2.3	3.1	3.1
140°	4.9	4.9	4.9	4.0	3.1	1.5	0.8	0.8	1.5	1.5	2.3
142.5°	4.0	4.9	4.0	3.1	2.3	0.8	0.0	0.8	0.8	0.8	0.8
145°	4.0	4.0	3.1	2.3	1.5	0.8	0.0	0.0	0.8	0.0	0.0
147.5°	3.1	3.1	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.3	2.3	2.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	0.8	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)