

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: P254420

Luminaire Tested: **LXF.LXT-AF24-40-D-U-SL3-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-21)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-40-D-U-SL3-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4099.9 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U3 - G3

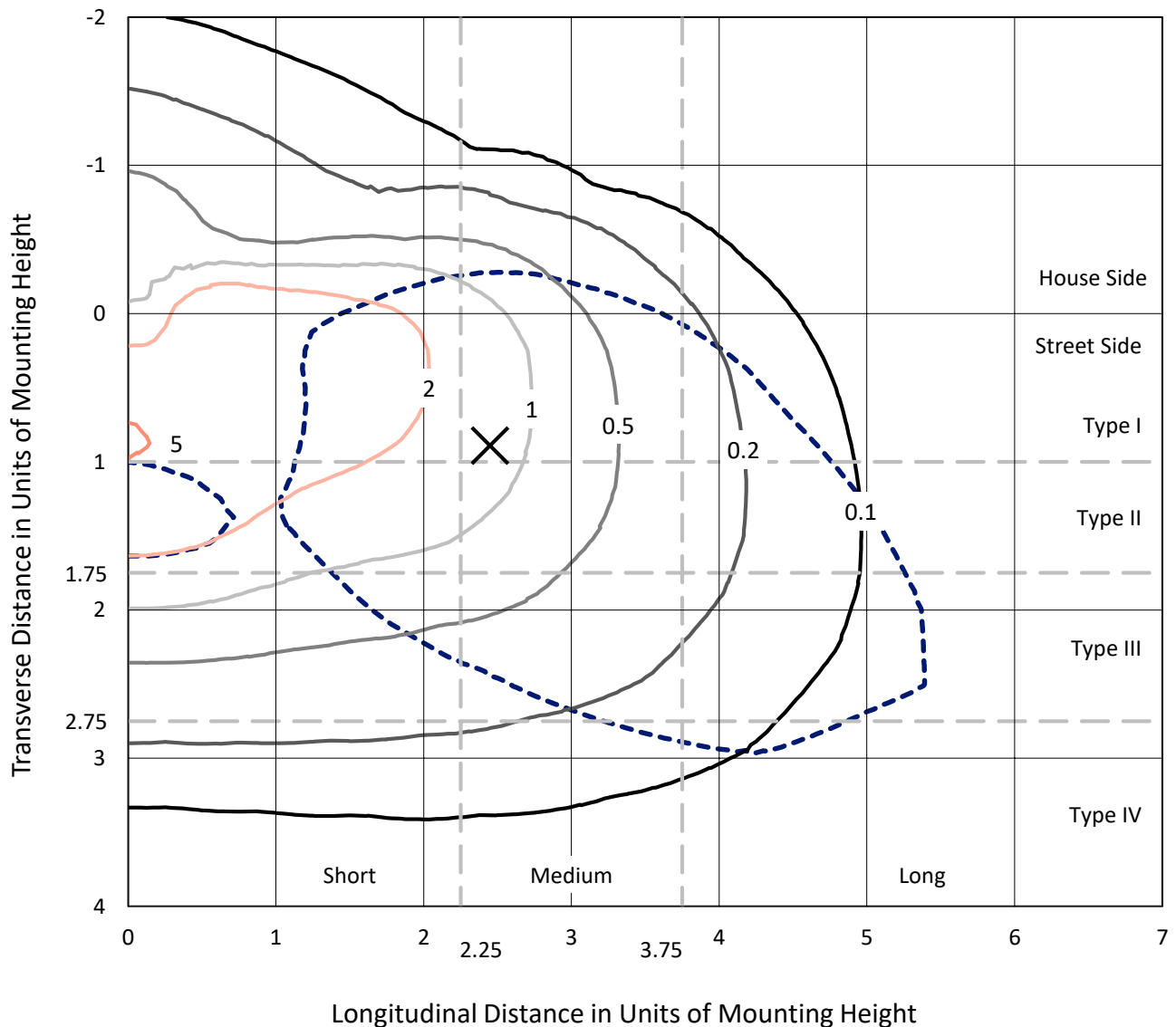
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

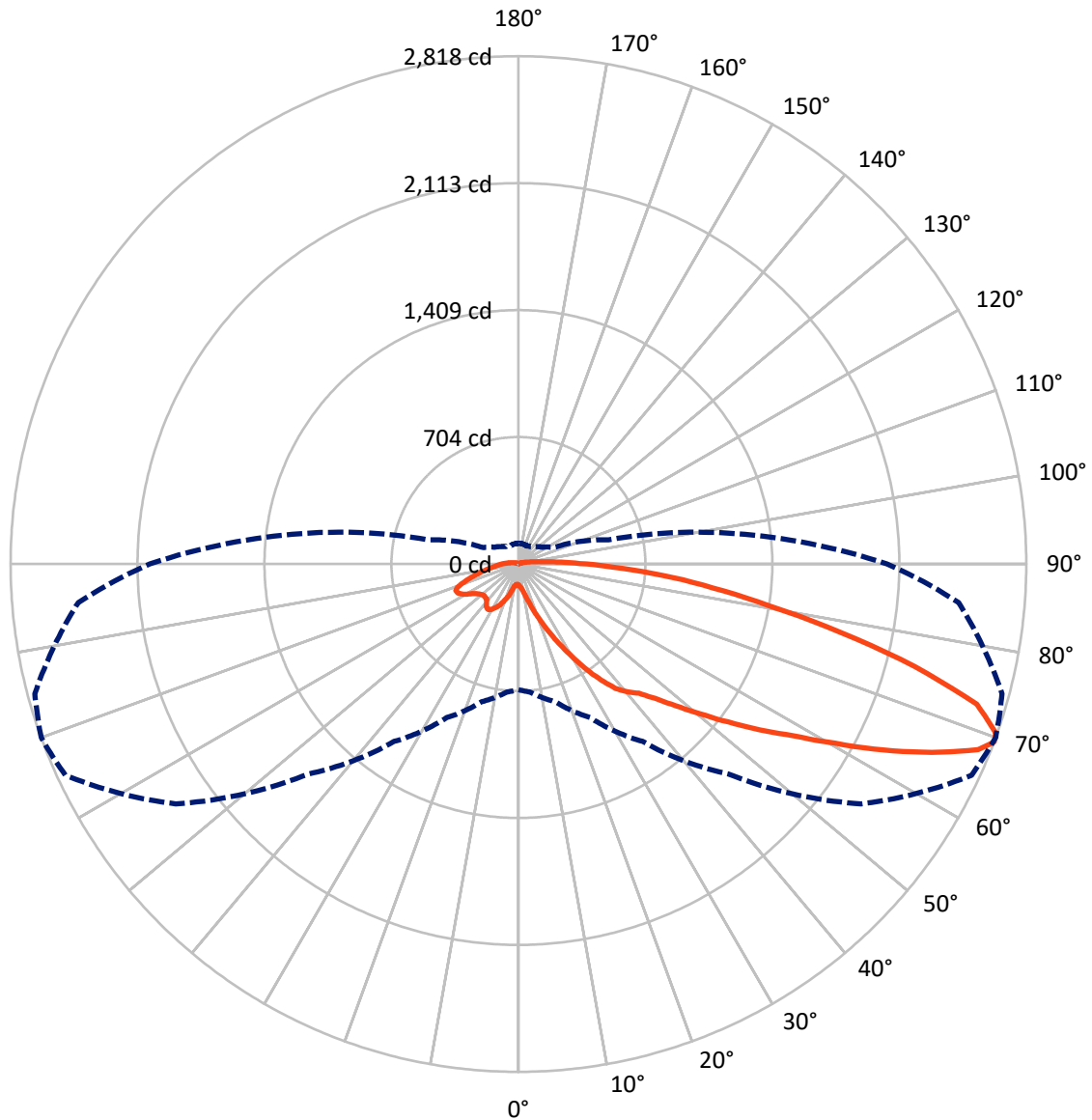


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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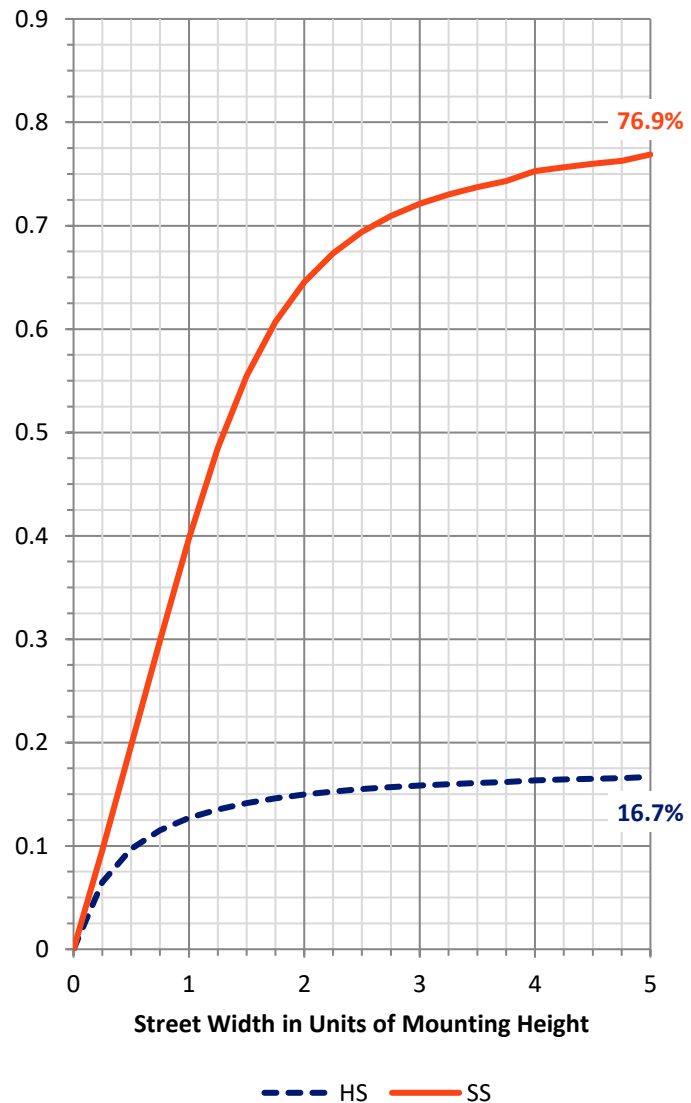
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	713.1	56.3	769.4
	% Fixture	17.4	1.4	18.8
Street Side	Lumens	3237.8	92.7	3330.5
	% Fixture	79.0	2.3	81.2
Total	Lumens	3950.9	149.0	4099.9
	% Fixture	96.4	3.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.1	0.3
10°-20°	52.7	1.3
20°-30°	146.4	3.6
30°-40°	309.4	7.5
40°-50°	519.1	12.7
50°-60°	782.7	19.1
60°-70°	1018.4	24.8
70°-80°	796.4	19.4
80°-90°	313.7	7.7
90°-100°	93.0	2.3
100°-110°	30.5	0.7
110°-120°	13.1	0.3
120°-130°	7.1	0.2
130°-140°	3.8	0.1
140°-150°	1.3	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3950.9	96.4
0°-180°	4099.9	100.0



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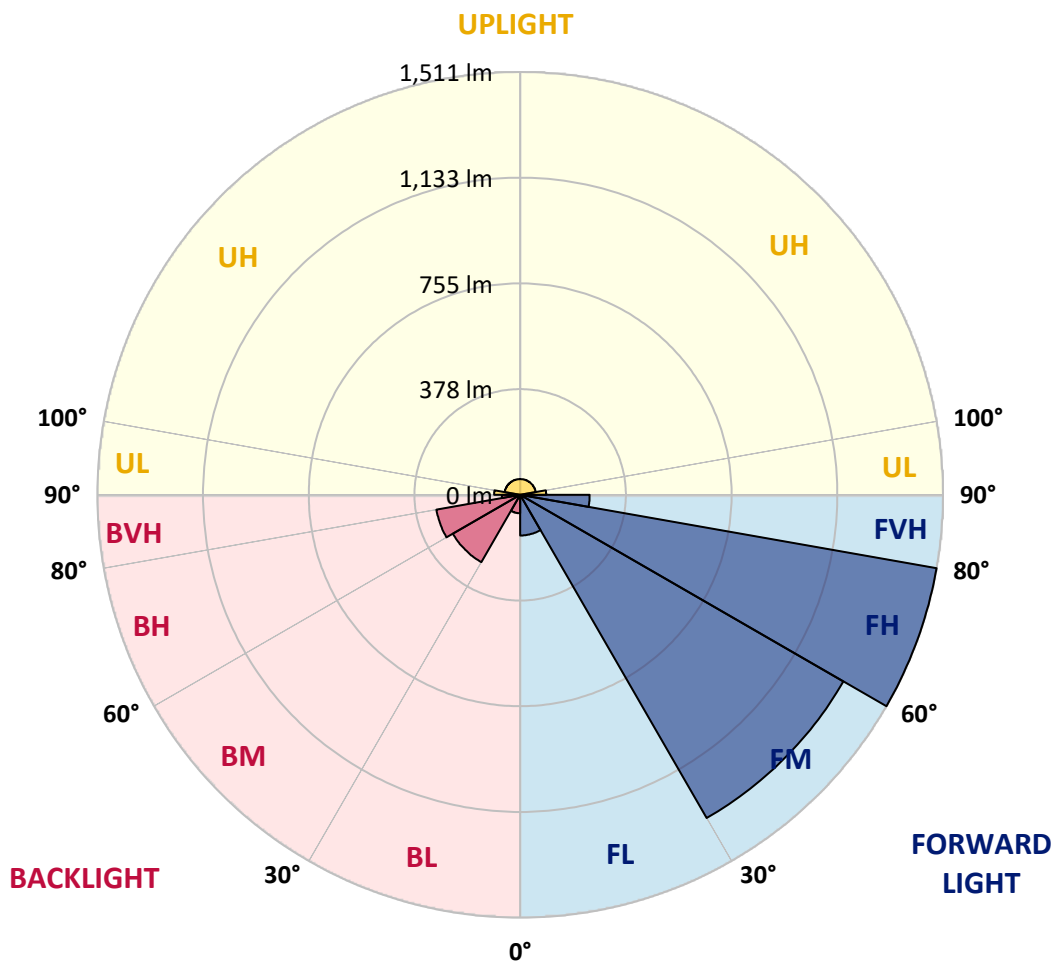
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	145.3	3.5			
FM	(30°-60°)	1333.4	32.5			
FH	(60°-80°)	1510.8	36.9			G1/1800
FVH	(80°-90°)	248.2	6.1			G3/500
BL	(0°-30°)	65.9	1.6	B0/110		
BM	(30°-60°)	277.8	6.8	B1/1000		
BH	(60°-80°)	303.9	7.4	B1/500		G1/500
BVH	(80°-90°)	65.5	1.6			G1/100
UL	(90°-100°)	93.0	2.3		U3/500	
UH	(100°-180°)	56.3	1.4		U3/500	

BUG Rating: B1-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	117.0	117.0	117.0	117.0	117.0	117.0	117.0	117.0	117.0	117.0	117.0
2.5°	130.8	130.8	131.3	130.8	130.3	128.3	126.2	123.7	122.7	121.6	119.1
5°	145.7	145.7	145.2	144.1	143.1	139.5	136.5	132.4	130.3	128.3	123.7
7.5°	163.7	163.2	162.6	160.6	158.6	154.0	149.4	144.1	141.1	138.5	132.4
10°	185.3	184.7	184.2	180.6	177.5	172.4	167.8	161.1	158.6	155.0	146.2
12.5°	212.9	214.4	211.3	205.7	201.6	194.5	191.4	186.8	183.7	182.2	172.9
15°	247.8	248.9	244.7	235.5	229.9	222.7	223.7	224.2	222.7	222.7	211.3
17.5°	289.9	287.9	284.8	271.4	262.7	259.6	264.2	268.8	269.9	271.4	259.6
20°	342.7	343.7	334.5	315.1	301.2	302.2	307.8	316.6	320.7	324.3	311.9
22.5°	415.1	406.8	396.1	368.4	349.4	345.2	354.0	370.9	377.6	386.9	375.0
25°	492.6	484.4	465.3	433.5	404.8	392.5	406.8	436.1	447.4	462.8	452.6
27.5°	575.1	568.5	539.7	505.8	466.9	445.3	464.3	503.8	521.8	541.2	530.0
30°	663.9	656.2	622.4	582.4	533.1	505.8	520.8	577.7	607.4	634.1	629.0
32.5°	769.6	759.3	717.8	667.0	602.3	570.0	585.9	663.4	700.8	735.2	728.0
35°	887.6	882.5	827.1	762.4	682.9	637.2	659.3	743.4	790.6	827.1	817.3
37.5°	1023.1	1016.9	953.8	868.1	767.0	709.5	726.0	820.4	875.2	913.8	892.2
40°	1149.3	1143.1	1080.5	980.0	854.8	785.5	799.3	883.5	933.2	964.5	925.1
42.5°	1284.2	1272.3	1202.6	1086.7	948.2	866.0	863.0	931.7	979.5	1020.0	979.0
45°	1403.2	1400.1	1325.2	1192.4	1042.0	945.1	925.1	1001.5	1064.1	1118.5	1076.5
47.5°	1478.2	1474.1	1419.1	1286.8	1124.1	1022.0	1007.6	1101.0	1174.3	1233.4	1184.7
50°	1518.2	1516.6	1477.7	1358.6	1206.2	1106.6	1117.0	1222.6	1305.2	1379.1	1326.8
52.5°	1535.6	1535.6	1505.3	1409.9	1279.1	1203.6	1242.2	1363.2	1456.1	1535.6	1465.8
55°	1533.5	1534.0	1502.7	1422.2	1337.0	1305.2	1384.8	1529.4	1623.3	1709.0	1627.4
57.5°	1468.9	1473.0	1466.3	1414.0	1368.3	1408.4	1549.0	1708.0	1796.2	1877.3	1786.0
60°	1313.5	1324.2	1347.8	1358.1	1375.6	1506.4	1719.8	1909.6	2018.9	2117.9	2043.0
62.5°	1163.1	1172.3	1205.1	1249.8	1356.0	1580.8	1909.6	2186.1	2273.4	2368.3	2229.2
65°	980.5	994.8	1059.0	1143.7	1308.9	1633.0	2118.9	2445.3	2520.1	2565.9	2393.4
67.5°	796.8	810.1	887.1	1022.0	1247.3	1663.3	2273.4	2676.1	2750.0	2754.6	2498.6
69°	697.2	712.2	791.2	939.9	1201.6	1647.0	2320.6	2773.6	2817.7	2777.7	2451.4
70°	643.8	643.8	731.6	883.5	1161.6	1616.7	2328.2	2780.8	2809.5	2750.5	2401.7
72.5°	466.9	472.0	563.9	740.8	1033.8	1494.5	2199.4	2642.8	2659.2	2500.7	2069.2
75°	320.2	325.3	406.3	575.6	868.6	1300.6	1940.4	2285.7	2271.4	2096.8	1673.1
77.5°	221.7	225.3	286.8	419.7	687.0	1076.5	1617.2	1868.5	1833.1	1670.0	1251.9
80°	155.5	159.1	206.2	311.9	521.3	847.1	1282.2	1463.7	1412.5	1267.2	919.4
82.5°	109.3	112.3	151.4	236.0	395.1	659.3	1011.3	1138.4	1087.7	958.9	657.2
85°	77.9	80.0	109.8	179.5	302.7	491.5	767.5	853.2	801.4	682.4	436.6
87.5°	56.5	58.5	81.0	135.4	234.5	382.3	567.4	603.8	531.5	432.0	276.0
90°	42.6	44.1	61.1	101.6	182.7	280.6	406.3	393.5	340.6	272.4	184.2
92.5°	31.8	32.8	46.6	76.9	140.0	218.1	282.2	256.6	212.4	172.4	125.7
95°	23.6	24.7	35.4	58.0	103.6	156.5	184.2	158.6	132.4	109.3	85.7
97.5°	18.0	19.0	27.7	44.1	74.9	110.3	119.1	101.1	87.8	74.9	61.1
100°	14.3	14.8	21.6	33.9	53.9	75.4	82.0	70.3	61.6	54.9	46.1
102.5°	11.3	12.3	17.5	26.7	41.0	56.0	59.5	51.4	45.6	41.0	36.4
105°	9.7	10.2	14.3	21.6	32.3	42.0	45.1	38.5	33.9	30.8	28.2
107.5°	8.7	8.7	12.3	18.0	26.2	33.3	34.9	28.7	25.2	23.1	21.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	7.7	7.7	10.7	15.3	22.1	27.7	27.2	21.6	19.0	17.0	17.0
112.5°	7.2	7.2	9.2	13.8	19.0	23.1	21.6	17.0	14.8	12.8	13.8
115°	6.6	6.6	8.7	12.3	17.0	19.5	18.0	13.3	11.3	10.2	11.3
117.5°	6.6	6.6	8.2	11.3	15.3	17.0	15.3	11.3	9.2	8.7	9.7
120°	6.6	6.6	8.2	10.7	13.8	14.8	12.8	9.2	8.2	7.2	8.7
122.5°	6.6	6.6	7.7	10.2	12.8	13.3	11.3	8.2	6.6	6.6	7.7
125°	7.2	7.2	8.2	10.2	11.8	11.8	9.7	7.2	6.1	6.1	7.7
127.5°	7.7	7.7	8.2	9.7	10.7	10.2	8.7	6.6	6.1	6.1	7.2
130°	8.2	8.2	8.7	9.2	9.7	8.7	7.2	6.1	5.6	6.1	7.2
132.5°	8.2	8.2	8.2	8.7	8.7	7.7	6.1	5.1	5.1	5.6	6.6
135°	7.7	7.7	7.7	7.7	7.7	6.1	5.1	4.6	4.6	5.1	6.1
137.5°	6.6	6.6	6.1	6.1	6.1	5.1	4.1	3.6	3.6	4.1	5.1
140°	5.1	5.1	5.1	5.1	5.1	4.1	3.1	2.6	3.1	3.6	4.1
142.5°	4.1	4.1	4.1	4.1	4.1	3.1	2.0	2.6	3.1	3.1	3.6
145°	3.6	3.1	3.1	3.1	3.1	2.0	1.5	2.0	2.6	3.1	3.1
147.5°	2.6	2.6	2.6	2.6	2.0	1.0	1.0	2.0	2.0	2.6	3.1
150°	1.5	1.5	1.5	1.5	1.0	0.5	1.0	1.5	2.0	2.0	2.6
152.5°	0.5	0.5	1.0	1.0	0.5	0.0	0.5	1.0	1.5	1.5	2.0
155°	0.0	0.0	0.5	1.0	0.0	0.0	0.5	1.0	1.0	1.5	1.5
157.5°	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5	1.0	1.0	1.5
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
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°	117.0	117.0	117.0	117.0	117.0	117.0	117.0	117.0	117.0	117.0	117.0
2.5°	117.5	116.5	114.4	112.8	110.8	109.3	109.3	107.7	107.7	107.2	106.7
5°	121.6	120.1	114.9	111.3	107.7	104.6	102.6	101.1	99.5	98.5	98.0
7.5°	129.3	125.7	118.6	112.3	106.2	101.6	97.5	94.9	92.9	92.4	91.3
10°	142.1	138.0	126.7	116.5	107.2	99.5	94.4	90.8	88.8	88.3	87.8
12.5°	167.3	161.1	144.6	127.8	110.3	98.5	91.9	91.3	91.9	92.9	93.4
15°	203.7	197.0	171.9	145.2	118.6	100.0	96.5	97.5	99.0	100.6	100.6
17.5°	248.4	237.0	203.2	164.7	128.8	109.3	101.1	102.1	105.2	107.7	107.7
20°	298.1	280.1	232.4	179.0	138.5	115.4	105.7	106.2	110.8	113.9	114.4
22.5°	358.6	331.4	263.2	190.9	144.1	118.0	108.7	109.3	116.5	121.6	122.1
25°	426.9	391.5	298.6	203.7	146.2	117.0	110.3	113.9	125.2	133.9	134.4
27.5°	495.1	446.3	325.8	212.4	144.6	113.9	111.3	119.1	132.9	141.1	142.1
30°	583.4	522.3	356.1	216.0	139.5	110.8	111.3	121.1	132.9	141.1	141.6
32.5°	671.1	588.0	380.7	218.6	133.9	108.2	109.8	118.6	129.8	139.0	139.5
35°	745.5	640.3	391.5	213.4	128.8	106.7	107.2	116.0	128.8	140.0	140.6
37.5°	800.4	674.1	390.5	201.1	122.7	105.2	105.7	115.4	129.8	142.1	143.6
40°	818.9	676.2	370.9	183.2	118.6	104.6	106.2	115.4	128.8	139.0	140.6
42.5°	861.9	694.2	357.6	167.3	115.4	105.7	107.7	113.9	123.7	133.4	135.4
45°	938.9	742.9	361.2	159.6	114.9	108.2	108.7	112.3	119.1	128.3	130.8
47.5°	1022.0	792.7	362.7	155.5	117.5	110.8	110.3	110.8	114.4	122.1	124.7
50°	1136.9	867.6	370.9	155.0	121.6	113.9	111.8	109.8	112.3	121.6	124.2
52.5°	1255.5	947.2	384.3	158.0	127.8	118.0	113.9	110.3	112.3	120.6	124.2
55°	1387.8	1046.2	403.8	164.2	133.9	122.7	116.5	111.8	111.8	119.1	122.1
57.5°	1534.0	1148.3	429.4	172.4	140.6	127.8	118.6	112.3	111.3	116.0	118.6
60°	1761.3	1319.6	474.5	184.2	147.2	131.9	120.1	112.8	111.8	115.4	117.0
62.5°	1912.2	1438.6	513.6	196.0	153.4	135.4	120.6	112.8	112.8	114.9	116.0
65°	2055.3	1542.8	539.7	206.7	159.1	137.5	120.6	112.3	112.8	114.4	114.4
67.5°	2103.6	1568.9	541.2	214.4	162.6	137.5	119.6	111.8	113.3	114.9	114.4
69°	2045.6	1514.6	518.2	214.9	162.6	136.0	118.6	110.8	113.3	114.9	114.4
70°	1990.7	1467.8	498.7	212.9	161.1	134.4	117.0	110.3	112.8	114.4	113.9
72.5°	1681.3	1213.4	422.3	202.6	155.5	129.3	112.3	106.7	110.3	112.3	111.3
75°	1339.6	956.4	344.2	184.7	145.7	121.1	106.2	101.1	105.2	107.2	105.7
77.5°	998.4	708.0	275.5	166.7	134.9	113.9	99.5	93.9	97.0	98.0	96.5
80°	724.5	514.1	221.2	150.4	125.2	106.7	92.9	86.7	89.3	89.3	87.3
82.5°	512.0	365.3	178.5	133.9	114.9	100.6	87.3	80.5	84.2	83.7	81.5
85°	343.2	253.5	146.2	116.0	103.1	92.4	81.0	75.9	80.0	79.5	77.4
87.5°	227.3	181.1	122.7	100.6	90.3	82.0	73.9	70.3	74.4	73.3	70.8
90°	161.1	137.0	103.6	86.7	77.4	71.3	65.7	63.1	65.7	63.6	61.1
92.5°	116.0	102.6	85.2	72.8	64.7	60.6	57.0	54.9	56.5	53.4	51.4
95°	82.0	75.4	68.2	60.0	53.9	50.3	48.2	47.2	48.2	43.6	42.0
97.5°	60.0	57.0	53.9	49.8	44.6	42.6	41.0	40.0	40.0	35.4	34.4
100°	46.6	45.1	44.1	41.5	37.4	35.9	34.9	34.4	33.3	29.3	28.2
102.5°	37.4	36.9	36.9	34.4	31.3	30.3	29.3	28.7	27.7	24.1	23.1
105°	29.8	29.8	30.3	28.2	26.2	25.2	24.7	23.6	22.6	20.0	20.0
107.5°	23.6	23.6	24.7	23.1	22.1	21.1	20.6	19.5	18.5	17.0	17.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	18.5	19.0	20.6	19.5	18.5	18.0	17.5	15.9	14.8	14.3	14.3
112.5°	14.8	15.9	17.0	16.4	15.3	15.3	14.3	13.3	12.3	12.3	12.3
115°	12.8	13.3	14.3	13.8	13.3	12.8	12.3	10.7	10.2	10.2	10.7
117.5°	10.7	11.3	12.3	11.8	11.3	11.3	10.2	9.2	8.2	9.2	9.2
120°	9.2	9.7	10.2	10.2	9.7	9.7	8.7	7.7	6.6	7.7	7.7
122.5°	8.7	8.7	9.2	8.7	8.7	8.2	7.2	6.1	5.6	6.6	6.6
125°	8.2	8.2	8.2	7.7	7.7	7.2	6.1	5.1	4.6	5.6	5.6
127.5°	7.7	7.7	7.7	7.2	6.1	5.6	5.1	4.1	3.6	4.6	4.6
130°	7.7	7.7	6.6	6.1	5.6	4.6	4.1	3.1	3.1	4.1	4.1
132.5°	7.2	6.6	6.1	5.1	4.6	3.6	3.1	2.6	2.6	3.1	3.6
135°	6.1	6.1	5.1	4.1	3.6	2.6	2.6	1.5	2.0	2.6	2.6
137.5°	5.1	5.1	4.6	3.6	2.6	2.0	1.5	1.0	1.5	2.0	2.0
140°	4.6	4.1	3.6	3.1	2.0	1.0	1.0	0.5	1.0	1.0	1.5
142.5°	4.1	4.1	3.6	2.6	1.5	1.0	0.0	0.5	0.5	0.5	1.0
145°	3.6	3.6	3.1	2.0	1.5	0.5	0.0	0.5	0.5	0.5	0.0
147.5°	3.1	3.1	2.6	2.0	1.0	0.0	0.0	0.0	0.5	0.0	0.0
150°	2.6	2.6	2.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.0	2.0	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.5	1.5	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.5	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.5	0.5	0.5	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)