

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: P266181

Luminaire Tested: **LXF.LXT-AF24-80-D-U-T2U-A-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266181  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-22)  
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-T2U-A-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6624 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B2 - U3 - G2

Input Watts (W): 83  
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

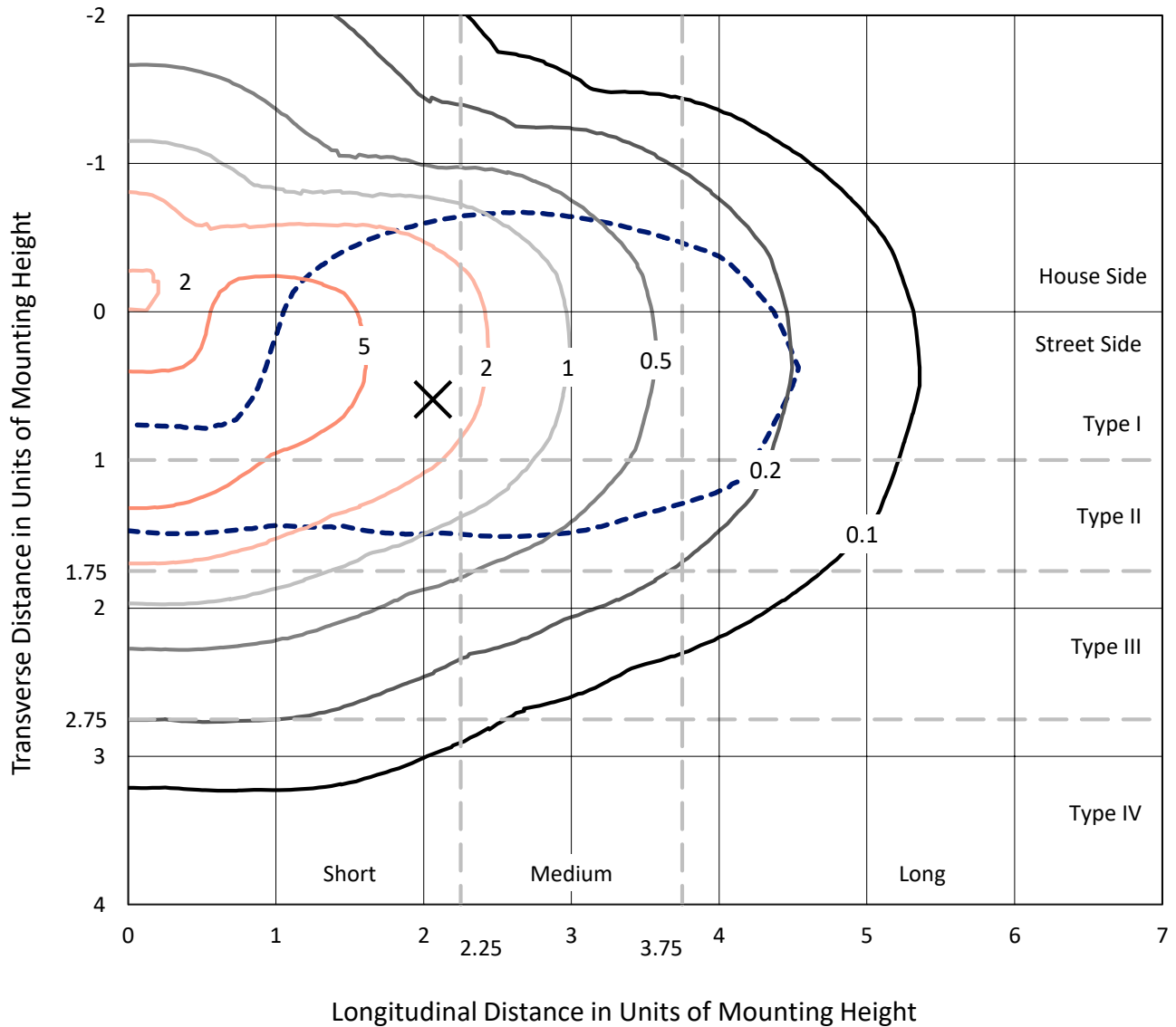


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

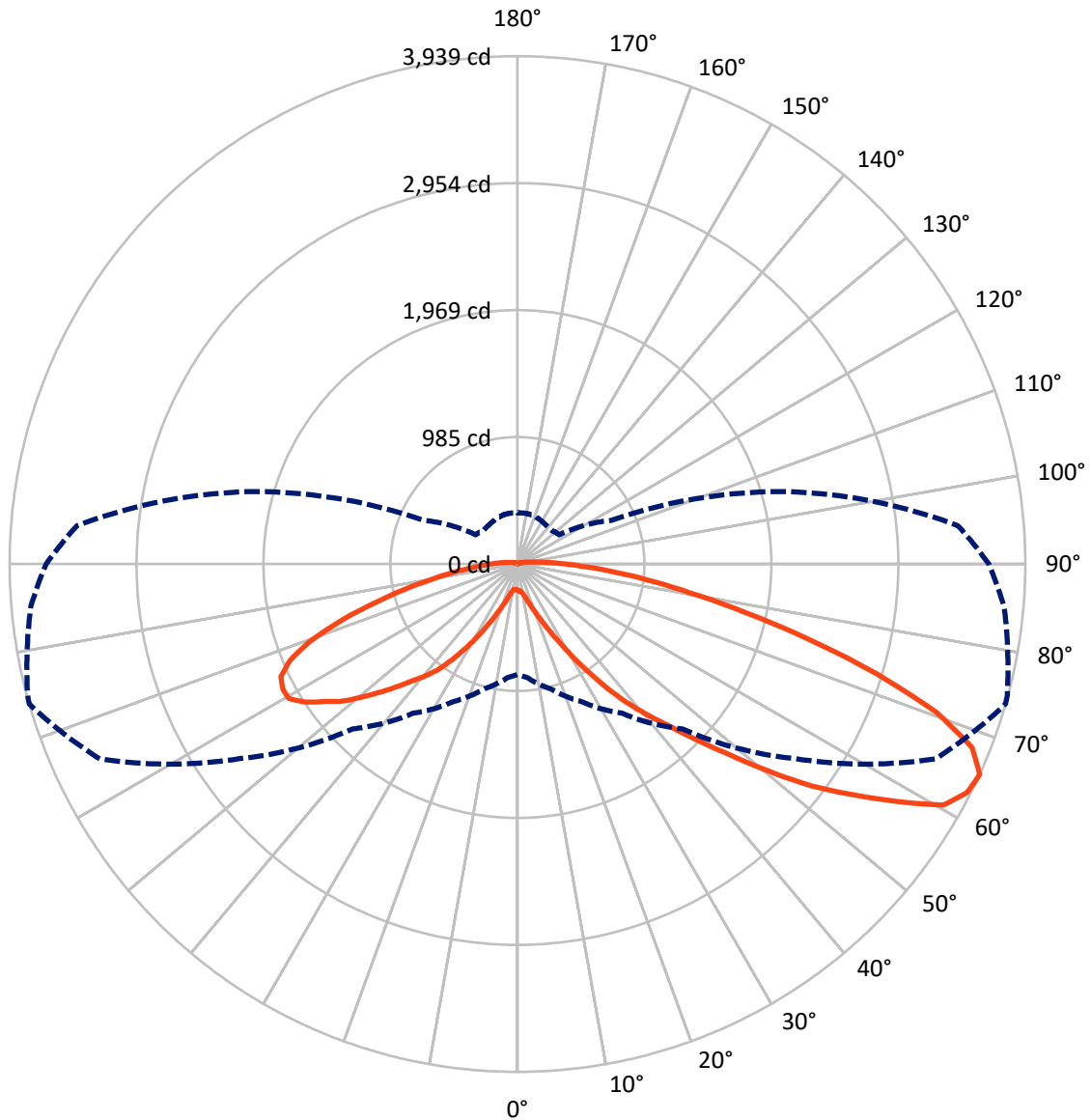


Based on 10 foot mounting height. Maximum calculated value = 9.9 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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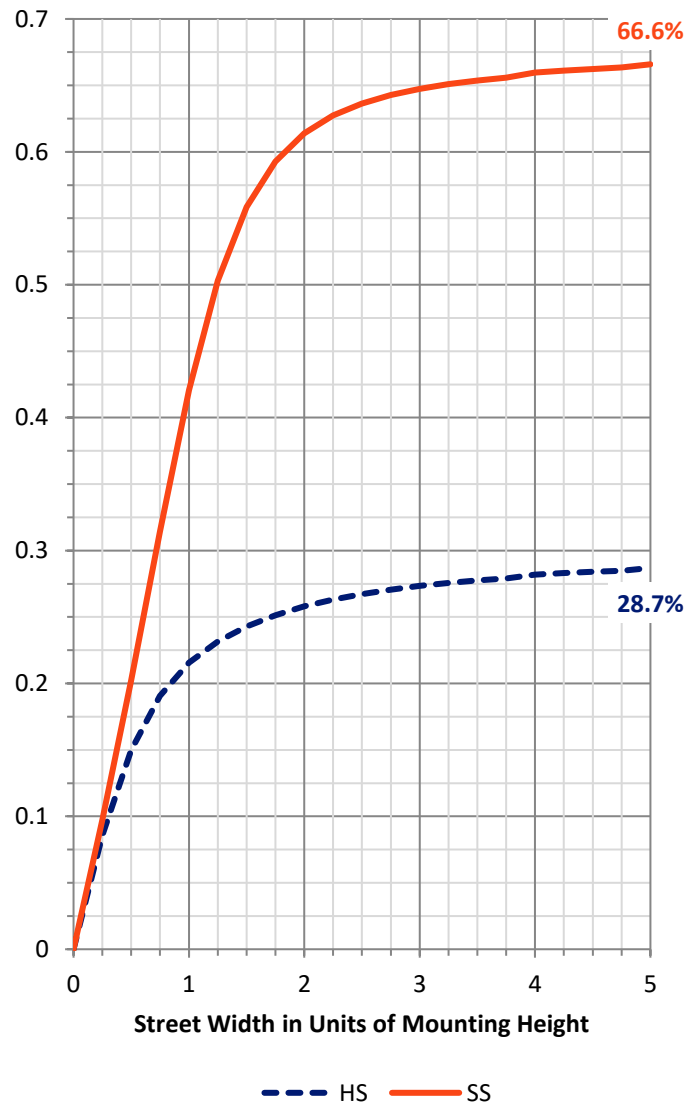
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1958.8	95.8	2054.5
	% Fixture	29.6	1.4	31.0
<b>Street Side</b>	Lumens	4472.0	97.5	4569.5
	% Fixture	67.5	1.5	69.0
<b>Total</b>	Lumens	6430.7	193.3	6624.0
	% Fixture	97.1	2.9	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.2	0.3
10°-20°	83.1	1.3
20°-30°	245.1	3.7
30°-40°	597.7	9.0
40°-50°	1091.2	16.5
50°-60°	1552.7	23.4
60°-70°	1563.1	23.6
70°-80°	925.5	14.0
80°-90°	352.2	5.3
90°-100°	111.0	1.7
100°-110°	42.0	0.6
110°-120°	20.1	0.3
120°-130°	11.4	0.2
130°-140°	6.4	0.1
140°-150°	2.1	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6430.7	97.1
0°-180°	6624.0	100.0

**Coefficient of Utilization**



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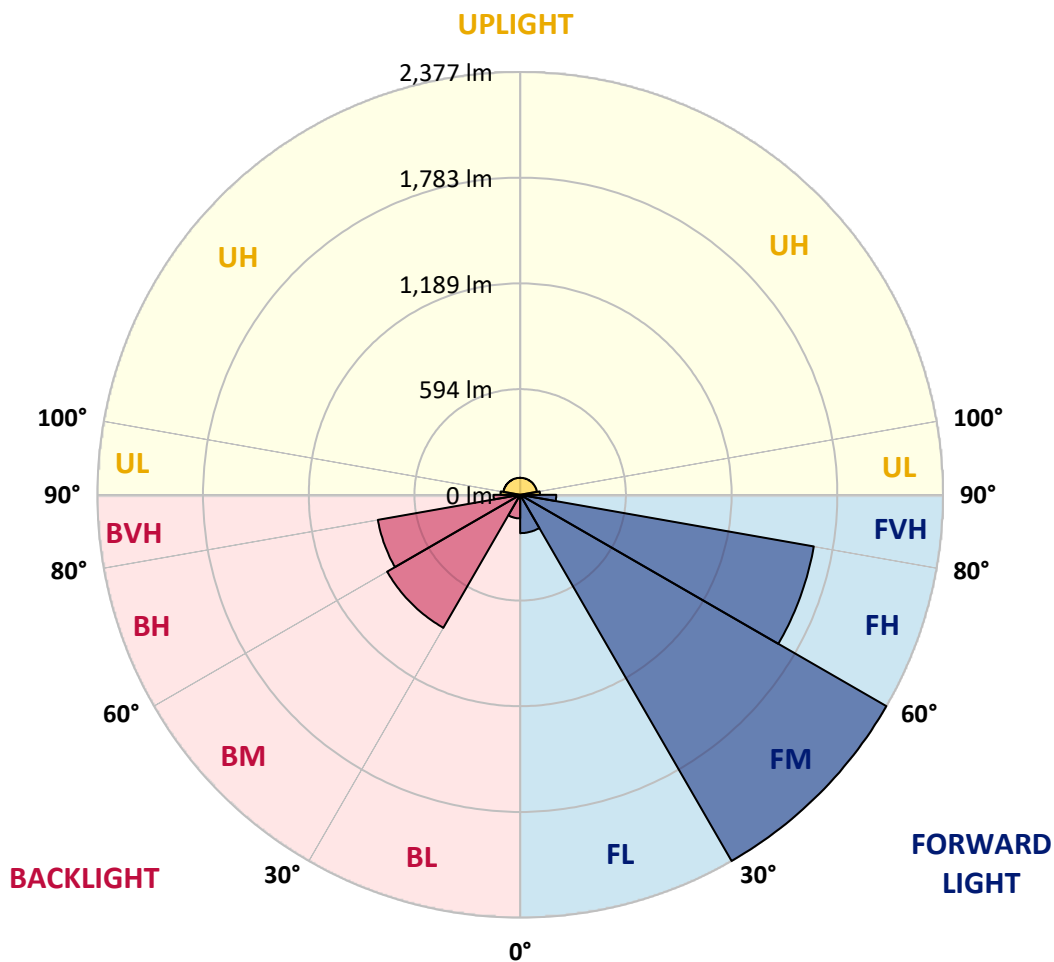
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	215.6	3.3			
FM	(30°-60°)	2377.4	35.9			
FH	(60°-80°)	1676.3	25.3			G1/1800
FVH	(80°-90°)	202.6	3.1			G2/225
BL	(0°-30°)	132.7	2.0	B1/500		
BM	(30°-60°)	864.1	13.0	B1/1000		
BH	(60°-80°)	812.4	12.3	B2/1000		G2/1000
BVH	(80°-90°)	149.6	2.3			G2/225
UL	(90°-100°)	111.0	1.7		U3/500	
UH	(100°-180°)	95.8	1.4		U3/500	

**BUG Rating: B2-U3-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7
2.5°	218.1	217.3	218.1	217.3	217.3	215.7	213.3	210.2	206.9	206.2	203.7
5°	233.2	233.2	233.2	231.7	230.0	227.6	222.8	217.3	211.7	210.9	206.2
7.5°	254.0	254.7	253.1	249.9	246.8	240.3	234.7	226.8	219.6	218.8	211.7
10°	284.9	284.1	281.7	277.8	269.0	261.9	252.2	241.1	233.2	231.7	222.8
12.5°	327.9	327.2	323.1	312.0	300.0	286.5	276.9	266.5	258.6	257.9	249.9
15°	383.5	382.0	374.1	359.7	340.5	323.1	315.1	304.9	296.8	296.0	288.0
17.5°	452.0	450.4	439.4	418.6	392.3	372.4	363.8	351.7	343.1	343.8	331.8
20°	537.9	534.0	519.0	491.1	459.3	435.3	421.8	409.8	402.7	401.9	393.2
22.5°	648.5	643.0	616.0	582.6	542.8	510.1	492.6	479.9	475.2	475.9	467.9
25°	790.2	779.9	745.8	699.5	650.3	600.1	579.3	565.0	567.4	569.0	561.0
27.5°	958.2	953.5	900.9	845.1	772.0	707.4	688.5	674.1	678.8	682.8	676.5
30°	1166.7	1150.8	1089.6	1005.9	911.2	832.4	807.8	802.9	815.8	821.3	817.3
32.5°	1406.2	1392.7	1309.1	1203.3	1065.6	972.5	943.8	956.5	977.3	983.6	978.9
35°	1690.3	1678.5	1566.3	1421.4	1246.3	1146.7	1108.6	1130.1	1156.4	1161.9	1154.7
37.5°	1983.9	1977.7	1855.1	1664.9	1450.9	1321.9	1289.2	1320.2	1348.1	1352.8	1329.0
40°	2235.5	2241.1	2118.6	1907.6	1660.8	1508.2	1489.0	1516.9	1524.9	1527.2	1481.8
42.5°	2440.1	2443.2	2336.6	2123.2	1858.2	1702.3	1692.0	1706.3	1708.7	1708.7	1656.1
45°	2494.1	2511.7	2450.3	2288.1	2046.1	1890.9	1890.9	1923.5	1939.4	1944.2	1876.6
47.5°	2518.8	2531.6	2496.5	2379.5	2197.3	2073.2	2114.5	2190.2	2206.1	2214.9	2128.1
50°	2496.5	2514.0	2507.7	2432.2	2300.7	2240.3	2361.3	2493.3	2522.8	2531.6	2425.8
52.5°	2321.4	2356.4	2409.0	2422.5	2363.6	2379.5	2611.2	2834.0	2860.3	2865.1	2708.2
55°	2068.3	2109.8	2199.0	2293.6	2350.1	2471.9	2853.8	3163.4	3157.1	3160.2	2980.3
57.5°	1750.1	1790.6	1910.8	2060.4	2224.4	2492.5	2999.5	3430.8	3474.6	3483.4	3313.0
60°	1457.2	1473.8	1602.8	1772.4	1989.6	2387.4	2999.5	3653.6	3796.1	3779.3	3548.7
62.5°	1119.7	1154.0	1288.4	1473.1	1709.5	2130.4	2890.4	3724.6	3910.7	3887.7	3671.2
65°	857.2	885.0	1003.5	1177.9	1413.5	1808.1	2631.9	3575.7	3938.6	3933.0	3789.1
67.5°	668.5	672.6	774.3	923.2	1118.1	1458.8	2208.5	3286.8	3804.1	3803.2	3717.4
70°	505.3	509.2	592.2	729.8	863.5	1115.8	1763.6	2816.5	3446.7	3436.3	3476.3
72.5°	386.0	390.8	456.0	565.8	663.7	833.3	1344.1	2264.9	2910.4	2925.5	2984.3
75°	298.4	303.2	354.1	439.4	508.5	611.1	970.9	1705.4	2333.3	2358.1	2481.4
77.5°	230.0	234.7	275.4	339.7	390.8	448.1	676.5	1251.1	1805.0	1836.8	1974.5
80°	176.6	181.5	217.3	263.5	304.9	339.7	476.7	896.1	1358.4	1394.3	1554.2
82.5°	136.9	141.7	171.8	209.3	244.2	268.2	346.9	638.2	1013.1	1042.6	1208.8
85°	105.8	109.9	135.3	164.7	198.2	219.6	265.8	452.0	727.4	752.2	883.4
87.5°	81.9	85.2	105.8	129.7	160.7	182.3	211.7	328.7	499.0	518.1	605.6
90°	62.1	65.2	81.9	100.3	127.3	150.5	169.5	236.3	343.1	354.1	398.7
92.5°	45.4	47.8	61.3	74.7	97.0	119.4	135.3	175.1	233.2	238.8	257.9
95°	34.2	35.8	45.4	55.8	73.2	92.3	105.0	128.9	156.8	160.0	166.4
97.5°	27.0	27.8	35.0	42.9	56.6	71.7	81.1	94.7	110.6	112.2	115.4
100°	23.0	23.9	29.5	35.8	45.4	57.3	64.5	73.2	81.9	82.7	85.2
102.5°	19.9	20.8	24.7	29.5	38.2	47.8	52.6	58.1	62.9	62.1	64.5
105°	17.4	17.4	21.5	25.4	32.6	39.7	42.9	46.2	47.8	47.8	49.3
107.5°	15.1	15.9	18.2	22.3	28.7	34.2	35.8	36.7	36.7	36.7	38.2
110°	13.6	13.6	15.9	19.1	24.7	29.5	30.3	29.5	28.7	28.7	30.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
112.5°	11.9	11.9	13.6	17.4	22.3	26.3	26.3	24.7	22.3	22.3	23.9
115°	10.3	11.1	11.9	15.9	20.8	23.9	23.0	20.8	18.2	18.2	19.9
117.5°	9.5	9.5	11.1	14.4	19.1	21.5	20.8	17.4	15.1	15.1	16.7
120°	9.5	9.5	10.3	13.6	17.4	19.9	18.2	15.1	12.8	12.8	15.1
122.5°	9.5	9.5	10.3	12.8	15.9	17.4	16.7	13.6	11.1	11.1	12.8
125°	10.3	10.3	10.3	12.8	15.1	16.7	15.1	12.8	10.3	10.3	11.1
127.5°	11.1	11.1	11.1	12.8	14.4	15.1	13.6	11.1	9.5	9.5	10.3
130°	11.9	11.9	11.1	11.9	13.6	13.6	12.8	10.3	8.8	8.8	10.3
132.5°	11.9	11.9	11.1	11.1	11.9	11.9	11.1	8.8	7.9	7.9	9.5
135°	11.1	11.1	10.3	10.3	10.3	10.3	8.8	7.1	7.1	7.1	7.9
137.5°	10.3	10.3	9.5	9.5	9.5	8.8	7.1	5.6	5.6	5.6	7.1
140°	8.8	8.8	8.8	7.9	7.9	7.1	5.6	4.9	4.9	4.9	5.6
142.5°	7.9	7.1	7.1	6.4	6.4	5.6	4.0	3.1	3.1	3.1	4.0
145°	6.4	6.4	5.6	4.9	4.9	4.0	2.3	1.5	2.3	2.3	3.1
147.5°	4.9	4.9	4.0	4.0	3.1	2.3	0.8	1.5	1.5	1.5	2.3
150°	3.1	3.1	3.1	2.3	1.5	0.8	0.8	0.8	0.8	1.5	1.5
152.5°	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.8	0.8	0.8	1.5
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
157.5°	0.0	0.0	0.0	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





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7
2.5°	202.2	201.3	199.8	196.5	195.8	194.2	191.8	191.0	189.5	190.3	189.5
5°	203.7	202.2	196.5	193.3	189.5	186.9	184.6	183.1	181.5	180.6	179.9
7.5°	207.7	205.4	199.0	192.5	186.9	183.1	179.9	177.4	175.9	175.1	174.4
10°	218.1	214.9	205.4	196.5	187.8	182.3	178.3	175.9	174.4	174.4	174.4
12.5°	243.5	239.6	225.2	210.2	195.8	186.9	182.3	185.4	189.5	193.3	195.8
15°	280.1	275.4	257.9	236.3	214.9	202.2	202.9	209.3	214.1	218.8	219.6
17.5°	326.3	319.9	297.7	269.0	240.3	230.0	226.8	233.2	241.1	246.0	248.3
20°	383.5	375.6	346.9	307.2	278.6	263.5	256.2	258.6	267.3	275.4	276.1
22.5°	456.8	442.4	409.1	354.1	318.3	295.3	284.9	284.9	296.8	307.2	308.7
25°	549.9	536.4	483.1	413.8	361.3	326.3	314.3	316.7	332.6	346.1	347.7
27.5°	664.6	645.4	575.4	484.6	405.9	353.4	340.5	346.9	362.8	377.2	378.8
30°	801.4	771.1	682.1	561.0	449.6	380.4	360.5	368.5	382.8	397.9	397.9
32.5°	956.5	920.9	802.1	642.3	491.1	399.4	371.7	382.0	396.3	411.5	410.6
35°	1124.5	1083.1	927.1	724.3	528.5	413.0	377.2	389.1	405.9	424.2	424.2
37.5°	1294.8	1252.6	1053.0	797.4	554.8	414.7	378.8	396.3	418.6	435.3	433.7
40°	1435.0	1377.6	1154.7	849.9	565.8	410.6	381.2	400.4	417.1	424.2	422.7
42.5°	1602.8	1529.6	1255.8	877.0	558.7	403.5	382.0	395.6	403.5	403.5	400.4
45°	1805.8	1722.2	1381.6	905.6	540.4	395.6	378.0	386.0	386.0	379.7	374.9
47.5°	2051.6	1938.6	1514.5	931.2	522.0	388.3	374.1	377.2	368.5	359.0	355.6
50°	2338.2	2201.2	1660.8	949.4	504.6	382.8	372.4	370.9	364.5	354.9	351.7
52.5°	2602.4	2448.8	1812.9	963.7	486.3	380.4	372.4	372.4	366.1	352.6	349.4
55°	2862.5	2698.7	1934.7	955.7	466.4	381.2	375.6	377.2	368.5	354.9	351.7
57.5°	3190.5	3013.9	2079.4	941.5	445.6	382.8	378.8	380.4	372.4	359.7	356.5
60°	3418.1	3222.3	2183.1	919.1	426.5	382.8	380.4	382.8	380.4	374.1	371.7
62.5°	3553.3	3335.3	2194.1	868.2	412.2	379.7	378.8	386.8	392.3	390.0	387.6
65°	3655.3	3427.7	2169.4	802.1	395.6	370.9	374.9	387.6	397.1	397.9	397.1
67.5°	3576.5	3341.8	2050.0	725.0	375.6	359.7	367.6	382.0	396.3	401.2	400.4
70°	3334.6	3103.7	1844.7	630.3	352.6	342.3	353.4	372.4	387.6	393.2	391.5
72.5°	2837.1	2631.0	1562.2	539.6	325.5	319.2	331.0	353.4	366.1	369.3	366.9
75°	2348.4	2167.0	1254.3	444.9	296.0	290.5	301.7	319.2	327.9	327.9	323.8
77.5°	1877.4	1708.7	987.6	369.3	265.8	259.4	269.9	280.1	281.7	276.1	272.1
80°	1474.7	1315.5	748.1	305.7	234.7	228.3	231.7	238.0	240.3	230.0	224.4
82.5°	1143.6	1001.2	561.9	253.1	204.5	196.5	199.0	202.2	202.9	190.3	183.9
85°	824.5	717.0	412.2	213.3	175.9	168.7	168.0	168.7	169.5	158.5	152.8
87.5°	565.8	491.1	301.7	179.0	152.1	144.8	143.3	142.4	142.4	130.6	125.0
90°	372.4	329.5	224.4	151.3	128.9	121.8	118.5	117.8	116.2	103.5	98.6
92.5°	242.0	221.3	166.4	124.1	106.7	100.3	96.3	94.0	91.4	79.6	74.7
95°	158.5	149.6	125.8	99.5	86.0	80.4	77.3	74.0	70.8	60.5	57.3
97.5°	112.2	109.1	97.8	80.4	68.5	64.5	62.1	59.6	57.3	48.6	46.9
100°	84.4	83.5	78.8	66.0	55.8	53.3	50.9	49.3	47.8	41.4	39.7
102.5°	65.2	66.0	64.5	54.1	46.9	44.6	42.9	41.4	40.7	35.8	35.0
105°	50.9	52.6	51.7	45.4	39.7	38.2	36.7	35.0	34.2	31.0	31.0
107.5°	39.7	41.4	42.2	37.4	34.2	32.6	31.0	29.5	29.5	27.8	27.8
110°	31.8	33.4	35.0	31.8	29.5	28.7	27.0	25.4	24.7	24.7	24.7



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	26.3	27.0	28.7	27.0	25.4	24.7	23.0	21.5	21.5	21.5	22.3
115°	21.5	23.0	23.9	23.0	22.3	22.3	19.9	18.2	17.4	19.1	19.1
117.5°	18.2	19.9	20.8	19.9	19.9	19.9	17.4	15.9	15.1	15.9	16.7
120°	15.9	16.7	17.4	17.4	17.4	17.4	15.9	13.6	12.8	14.4	14.4
122.5°	13.6	14.4	15.1	15.9	15.9	15.1	13.6	11.9	11.1	12.8	12.8
125°	11.9	12.8	13.6	14.4	14.4	13.6	11.9	10.3	9.5	11.1	11.1
127.5°	11.1	11.9	12.8	12.8	12.8	11.9	10.3	8.8	8.8	9.5	10.3
130°	11.1	11.1	11.9	11.9	11.1	10.3	8.8	7.1	7.1	8.8	8.8
132.5°	10.3	10.3	10.3	10.3	9.5	8.8	7.1	6.4	6.4	7.9	7.9
135°	8.8	8.8	8.8	8.8	7.9	7.1	6.4	4.9	5.6	6.4	6.4
137.5°	7.1	7.1	7.1	7.1	6.4	5.6	4.9	4.0	4.0	4.9	5.6
140°	5.6	6.4	6.4	5.6	4.9	4.9	3.1	2.3	3.1	4.0	4.0
142.5°	4.9	4.9	4.9	4.0	4.0	3.1	2.3	1.5	2.3	3.1	3.1
145°	4.0	4.0	4.0	4.0	3.1	1.5	0.8	0.8	1.5	1.5	1.5
147.5°	3.1	3.1	3.1	3.1	2.3	1.5	0.0	0.0	0.8	0.8	0.8
150°	2.3	2.3	2.3	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0
152.5°	1.5	1.5	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	0.8	0.8	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)