

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: P254741

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T2U-CL-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P254741  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-27)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-AF24-100-D-U-T2U-CL-7030  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
AND CLEAR LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8227.2 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U3 - G3

Input Watts (W): 96  
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

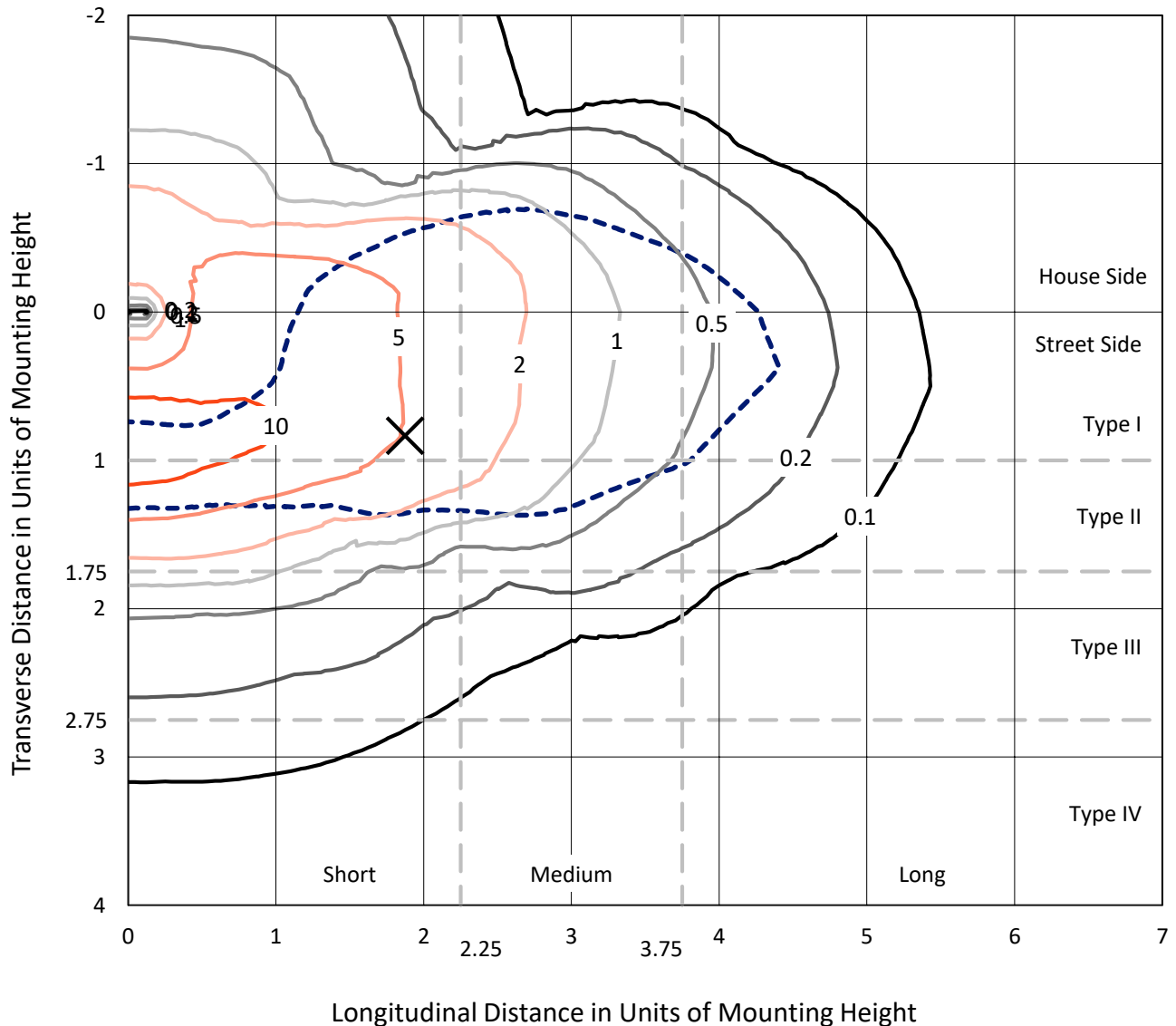


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

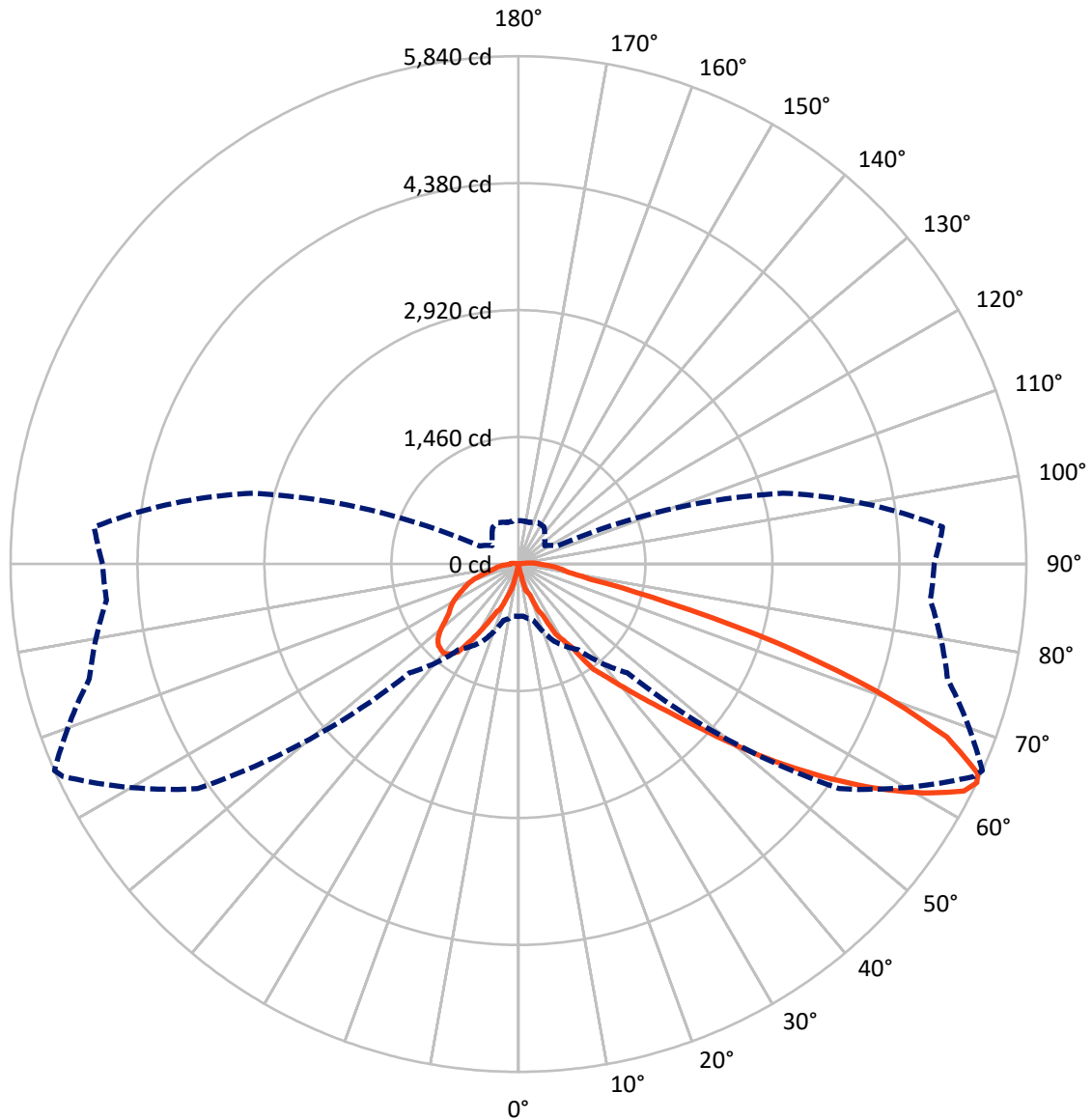


Based on 10 foot mounting height. Maximum calculated value = 15.5 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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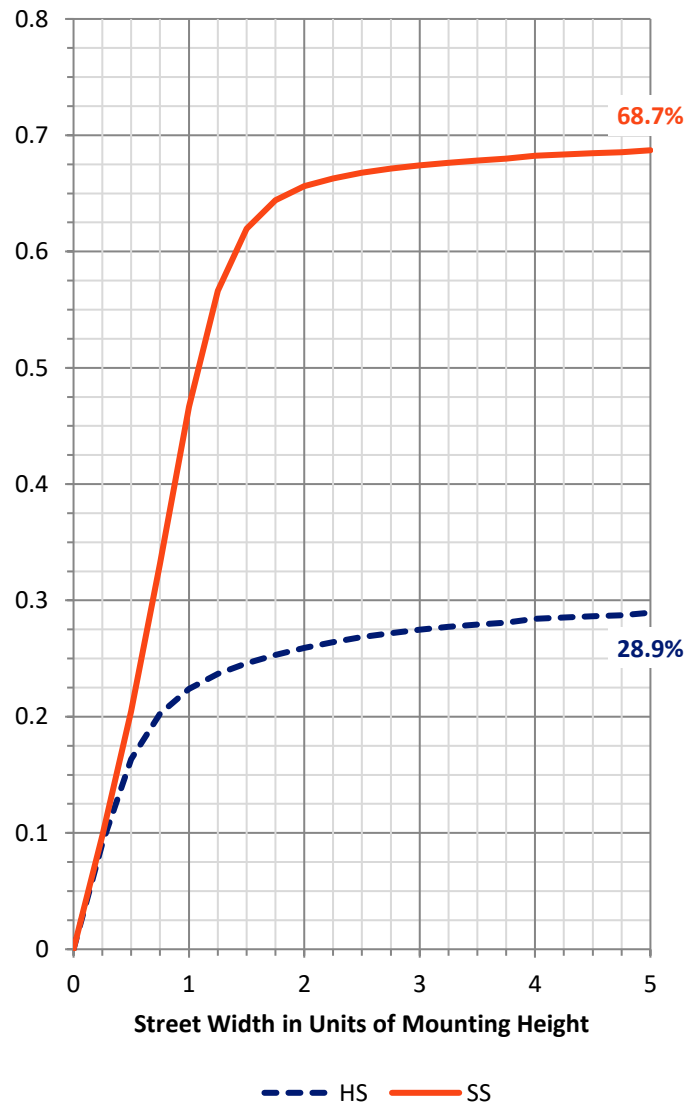
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2434.7	50.4	2485.0
	% Fixture	29.6	0.6	30.2
<b>Street Side</b>	Lumens	5696.5	45.7	5742.2
	% Fixture	69.2	0.6	69.8
<b>Total</b>	Lumens	8131.1	96.1	8227.2
	% Fixture	98.8	1.2	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.5	0.1
10°-20°	79.8	1.0
20°-30°	321.5	3.9
30°-40°	813.9	9.9
40°-50°	1551.9	18.9
50°-60°	2081.7	25.3
60°-70°	1927.5	23.4
70°-80°	1084.1	13.2
80°-90°	265.3	3.2
90°-100°	80.9	1.0
100°-110°	9.6	0.1
110°-120°	2.6	0.0
120°-130°	1.6	0.0
130°-140°	0.6	0.0
140°-150°	0.7	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8131.1	98.8
0°-180°	8227.2	100.0



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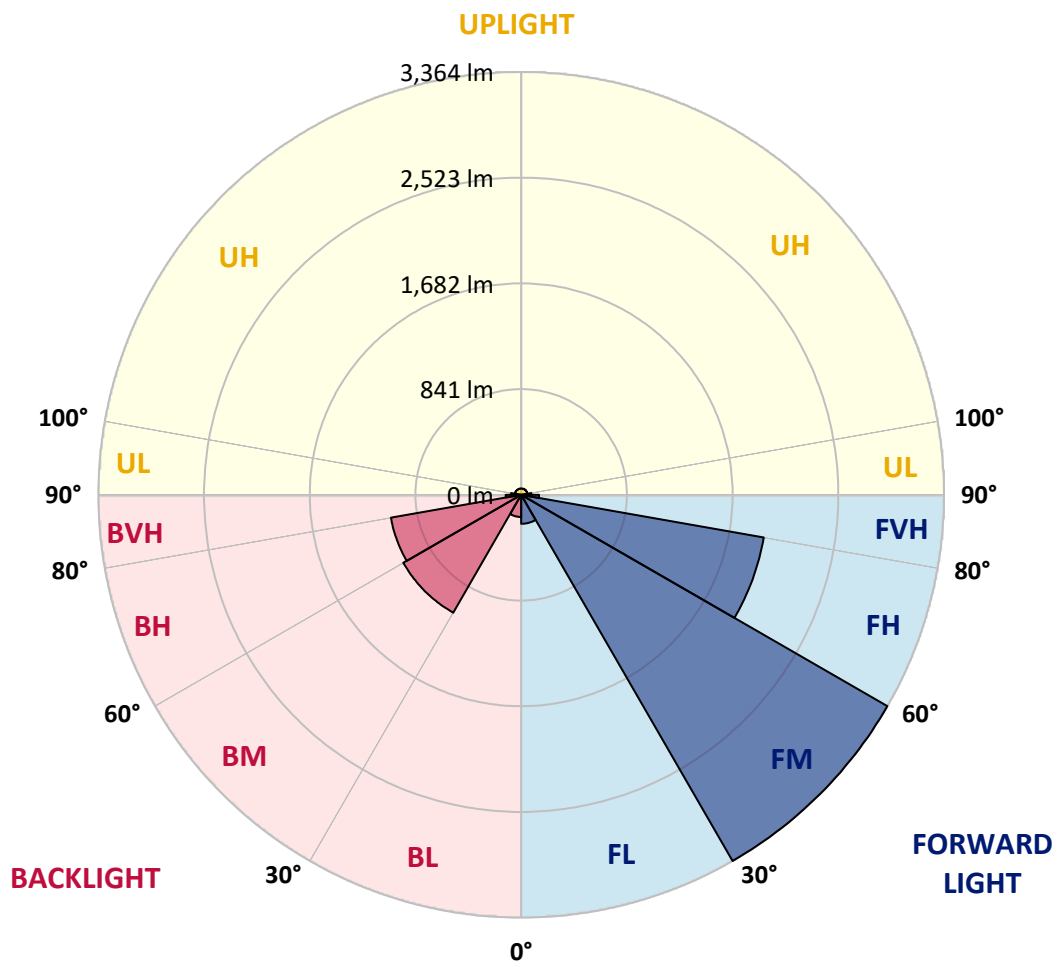
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	230.4	2.8			
FM (30°-60°)	3364.3	40.9			
FH (60°-80°)	1959.8	23.8			G2/5000
FVH (80°-90°)	142.0	1.7			G2/225
BL (0°-30°)	176.3	2.1	B1/500		
BM (30°-60°)	1083.2	13.2	B2/2500		
BH (60°-80°)	1051.8	12.8	B3/2500		G3/2500
BVH (80°-90°)	123.4	1.5			G2/225
UL (90°-100°)	80.9	1.0		U3/500	
UH (100°-180°)	50.4	0.6		U3/500	

**BUG Rating: B3-U3-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
2.5°	9.8	9.8	9.8	10.6	9.8	8.7	7.7	5.8	4.8	2.9	2.9
5°	126.7	126.7	125.7	121.9	37.7	19.3	12.6	7.7	7.7	4.8	2.9
7.5°	142.1	141.3	141.3	137.3	136.3	125.7	63.8	12.6	11.6	6.8	3.9
10°	157.7	153.8	151.9	148.9	149.9	141.3	131.5	62.0	35.8	13.5	10.6
12.5°	292.2	290.2	281.5	237.0	164.4	150.9	148.0	123.8	119.9	103.5	121.0
15°	323.1	317.3	311.5	310.6	294.0	183.8	233.2	304.8	307.6	237.0	256.3
17.5°	377.3	367.5	348.2	333.7	325.0	377.3	347.2	336.6	339.5	290.2	289.2
20°	571.7	570.7	561.0	495.3	371.5	466.2	448.8	384.9	383.1	524.2	511.7
22.5°	674.2	657.7	645.1	623.9	638.4	510.7	545.5	561.0	573.6	601.7	575.6
25°	1013.7	930.6	889.0	722.5	760.2	646.2	718.7	657.7	651.9	672.3	724.5
27.5°	1169.4	1174.3	1141.4	1082.3	878.2	906.3	801.9	921.8	914.1	930.6	892.7
30°	1557.3	1531.2	1352.2	1294.1	1135.5	1033.0	1105.6	1036.9	1014.7	995.4	986.6
32.5°	1920.0	1919.0	1870.7	1630.8	1429.6	1209.1	1257.5	1152.0	1158.8	1284.6	1315.5
35°	2483.9	2447.2	2157.0	2010.9	1708.2	1543.8	1412.1	1498.3	1486.7	1469.3	1481.9
37.5°	3135.8	3089.5	2842.8	2386.2	2070.9	1771.1	1754.6	1692.8	1650.2	1669.5	1682.0
40°	3517.9	3479.3	3263.6	2875.7	2417.3	2167.6	2007.1	1915.2	1863.0	1939.4	1936.5
42.5°	3789.7	3755.9	3632.1	3231.7	2906.7	2640.7	2306.9	2175.4	2121.3	2238.2	2192.9
45°	3928.1	3869.1	3854.5	3552.8	3334.1	3215.2	2721.8	2494.6	2426.8	2551.6	2497.4
47.5°	3857.5	3792.6	3848.7	3657.2	3719.1	3714.3	3237.5	2866.0	2821.5	2926.0	2844.8
50°	3529.5	3491.8	3612.7	3638.9	3916.5	4118.6	3811.1	3259.6	3315.8	3265.5	3210.4
52.5°	2989.9	2974.4	3167.8	3385.4	3886.5	4383.7	4339.1	3710.5	3836.2	3611.8	3538.3
55°	2416.3	2419.1	2630.0	2887.2	3574.1	4421.4	4798.6	4248.2	4355.6	3960.9	3858.4
57.5°	1764.3	1841.7	2082.5	2301.1	2980.1	4173.8	5083.0	4786.0	4875.0	4321.8	4150.5
60°	1144.3	1172.4	1462.6	1809.8	2197.6	3423.2	5193.3	5278.5	5347.0	4696.1	4429.2
62.5°	755.4	758.4	878.2	1278.8	1519.6	2389.2	4924.4	5684.6	5750.5	4984.3	4666.1
64°	601.7	600.7	671.3	981.8	1206.2	1768.2	4503.5	5778.5	5840.4	5109.1	4755.1
65°	531.0	530.0	581.4	789.3	1031.1	1413.2	4083.8	5744.7	5804.6	5165.2	4779.3
67.5°	450.7	452.7	473.0	542.7	746.7	850.2	2498.4	5263.9	5313.2	5121.6	4695.1
70°	415.9	417.8	442.1	455.6	589.0	631.6	1086.2	4299.5	4356.6	4923.4	4501.7
72.5°	366.6	369.6	401.4	436.3	467.2	524.2	691.6	2958.8	3122.3	4269.6	4241.5
75°	306.6	309.5	339.5	384.9	407.2	427.5	598.7	1569.8	1773.0	3213.4	3780.1
77.5°	250.5	252.5	277.6	308.5	370.5	331.8	524.2	802.8	851.2	2033.2	2795.4
80°	184.7	186.8	213.8	247.6	287.3	289.2	432.3	578.4	581.4	1112.4	1509.0
82.5°	126.7	127.8	154.7	174.2	203.1	267.9	346.3	476.9	501.1	660.7	693.6
85°	87.1	88.1	104.5	111.2	127.8	148.0	250.5	374.3	411.2	473.9	415.9
87.5°	41.6	43.4	45.5	48.4	50.3	52.2	107.4	275.7	290.2	316.3	328.9
90°	34.9	34.9	27.1	26.1	29.9	30.9	49.3	235.0	230.2	302.7	326.9
92.5°	34.9	34.9	25.1	24.1	27.1	26.1	35.8	193.5	187.6	297.9	323.1
95°	29.9	30.9	20.3	19.3	23.2	21.3	28.1	113.2	119.9	209.9	239.0
97.5°	25.1	25.1	15.6	15.6	16.5	15.6	18.3	41.6	46.4	88.9	105.4
100°	18.3	19.3	9.8	10.6	10.6	9.8	9.8	17.4	19.3	24.1	23.2
102.5°	15.6	17.4	6.8	7.7	5.8	5.8	4.8	7.7	7.7	12.6	18.3
105°	11.6	13.5	4.8	4.8	3.9	3.9	1.9	5.8	5.8	10.6	19.3
107.5°	6.8	7.7	2.9	2.9	2.9	3.9	1.9	3.9	4.8	8.7	16.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	2.9	2.9	1.0	1.9	1.0	2.9	1.9	3.9	4.8	3.9	8.7
112.5°	0.0	0.0	0.0	0.0	0.0	1.0	1.9	2.9	2.9	1.9	4.8
115°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.9	1.0	1.9	4.8
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.9	4.8
120°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.9	4.8
122.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.9	3.9
125°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.9
127.5°	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.9
130°	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.9
132.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
135°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
137.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	2.9	2.9	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	3.9	3.9	3.9	2.9	1.0	0.0	0.0	0.0	0.0	0.0	1.0
147.5°	4.8	4.8	3.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	1.0
150°	3.9	3.9	2.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	1.0
152.5°	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
2.5°	2.9	3.9	3.9	4.8	4.8	5.8	5.8	5.8	5.8	4.8	4.8
5°	2.9	3.9	3.9	4.8	5.8	7.7	8.7	10.6	10.6	11.6	11.6
7.5°	3.9	3.9	4.8	5.8	8.7	14.5	43.4	138.3	143.1	155.7	156.7
10°	9.8	10.6	10.6	11.6	28.1	142.1	159.6	166.4	175.1	176.0	175.1
12.5°	127.8	122.8	118.0	36.7	140.3	171.2	176.0	185.7	190.5	205.1	205.1
15°	258.3	258.3	249.5	274.7	248.6	190.5	205.1	322.1	333.7	342.4	337.6
17.5°	293.1	293.1	287.3	348.2	374.3	301.8	329.9	355.0	362.7	364.7	363.8
20°	527.1	521.3	470.2	427.5	390.8	478.8	404.4	365.6	435.3	503.9	507.8
22.5°	573.6	565.9	553.3	561.0	513.6	493.3	463.4	486.5	502.0	504.9	505.9
25°	723.6	718.7	624.9	597.7	645.1	550.3	557.1	476.9	485.5	496.2	495.3
27.5°	896.7	881.1	833.7	715.7	675.1	649.0	526.2	503.9	557.1	560.1	558.1
30°	995.4	951.7	864.8	884.1	729.3	621.0	522.4	528.2	504.9	505.9	507.8
32.5°	1327.1	1274.8	1162.6	1028.2	778.7	584.2	505.9	473.9	511.7	518.4	521.3
35°	1450.9	1404.5	1307.8	1216.8	793.1	557.1	449.8	464.3	465.2	467.2	469.2
37.5°	1623.0	1558.2	1478.0	1274.8	788.3	490.3	438.1	440.1	471.0	476.9	479.7
40°	1834.9	1752.7	1662.7	1301.0	710.9	465.2	428.6	443.0	453.7	450.7	452.7
42.5°	2085.4	1974.2	1848.4	1270.0	602.6	453.7	428.6	438.1	440.1	431.3	431.3
45°	2373.6	2249.8	2006.1	1235.1	519.4	457.5	438.1	432.3	422.8	410.2	407.2
47.5°	2689.0	2544.8	2151.2	1167.6	461.4	454.6	444.0	422.8	412.0	401.4	401.4
50°	3026.6	2874.7	2275.0	1063.0	434.3	449.8	441.1	428.6	417.0	397.6	396.6
52.5°	3349.7	3225.9	2428.9	920.8	408.2	453.7	463.4	435.3	418.8	392.7	392.7
55°	3662.1	3590.5	2567.1	808.6	397.6	442.1	476.0	451.7	417.0	396.6	397.6
57.5°	3973.5	3964.8	2725.8	733.2	384.9	435.3	492.3	464.3	435.3	414.9	414.9
60°	4327.5	4367.2	2929.9	649.0	383.1	427.5	499.1	485.5	451.7	447.9	448.8
62.5°	4632.3	4735.8	3085.6	551.3	370.5	421.7	510.7	505.9	472.0	468.1	473.9
64°	4782.2	4897.3	3146.5	490.3	367.5	425.6	515.6	526.2	494.3	498.1	498.1
65°	4836.4	4949.6	3163.9	449.8	364.7	427.5	516.5	532.9	499.1	498.1	498.1
67.5°	4838.3	4925.3	3103.0	385.9	352.1	426.5	521.3	551.3	518.4	540.8	532.0
70°	4724.2	4611.0	2867.0	341.4	350.1	427.5	517.5	541.7	512.7	562.9	558.1
72.5°	4409.8	4003.5	2277.9	300.8	354.0	421.7	497.1	516.5	495.3	568.8	563.9
75°	3726.0	3120.5	1402.6	281.5	349.2	401.4	473.0	470.2	459.4	505.9	503.0
77.5°	2560.4	2053.5	671.3	274.7	342.4	373.3	419.8	414.9	403.3	422.8	417.0
80°	1325.2	1085.3	405.3	251.6	318.3	324.1	342.4	346.3	333.7	338.6	330.8
82.5°	626.8	572.6	340.5	229.2	272.8	240.0	266.0	278.6	256.3	257.3	230.2
85°	391.7	399.5	280.5	178.0	183.8	146.1	184.7	198.3	170.2	145.1	138.3
87.5°	325.0	339.5	207.0	99.7	85.1	74.6	104.5	109.3	78.3	65.8	60.9
90°	335.7	346.3	204.1	79.3	67.7	56.0	76.4	67.7	48.4	42.6	38.7
92.5°	332.7	337.6	202.1	76.4	63.8	51.3	64.8	52.2	37.7	32.9	29.9
95°	250.5	268.9	163.5	74.6	56.0	41.6	48.4	40.7	26.1	23.2	21.3
97.5°	103.5	121.9	96.7	70.6	43.4	30.9	31.9	28.1	15.6	13.5	12.6
100°	20.3	31.9	51.3	51.3	21.3	16.5	16.5	15.6	7.7	6.8	5.8
102.5°	20.3	19.3	23.2	28.1	9.8	4.8	5.8	7.7	4.8	6.8	6.8
105°	21.3	20.3	12.6	7.7	5.8	2.9	1.9	1.9	3.9	7.7	8.7
107.5°	19.3	19.3	8.7	5.8	4.8	3.9	1.0	1.0	2.9	8.7	9.8



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	9.8	10.6	6.8	4.8	4.8	3.9	1.0	0.0	2.9	9.8	10.6
112.5°	5.8	5.8	5.8	3.9	2.9	2.9	1.0	0.0	2.9	10.6	11.6
115°	5.8	5.8	4.8	3.9	2.9	1.9	0.0	0.0	2.9	11.6	12.6
117.5°	5.8	5.8	4.8	2.9	1.9	1.0	0.0	0.0	2.9	11.6	12.6
120°	5.8	5.8	4.8	2.9	1.9	1.0	0.0	0.0	2.9	10.6	11.6
122.5°	5.8	5.8	4.8	2.9	1.9	1.0	0.0	0.0	2.9	8.7	9.8
125°	4.8	4.8	3.9	2.9	1.9	1.0	0.0	0.0	1.9	7.7	7.7
127.5°	3.9	4.8	3.9	2.9	1.9	1.0	0.0	0.0	1.9	5.8	6.8
130°	3.9	3.9	2.9	2.9	1.9	1.0	0.0	0.0	1.0	4.8	5.8
132.5°	2.9	2.9	1.9	1.9	1.9	1.0	0.0	0.0	0.0	1.9	2.9
135°	1.0	1.9	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	1.0
137.5°	1.0	1.0	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0
140°	1.0	1.0	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.0	1.0	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0
145°	1.0	1.9	1.9	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.9	1.9	1.9	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0
150°	1.9	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.0	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	1.0	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)