

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: P266216

Luminaire Tested: **LXF.LXT-AF24-90-D-U-T3-A-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266216  
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-AF24-90-D-U-T3-A-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1180mA 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: 7128.5 lumens  
Efficiency: N/A  
Efficacy: 75.8 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

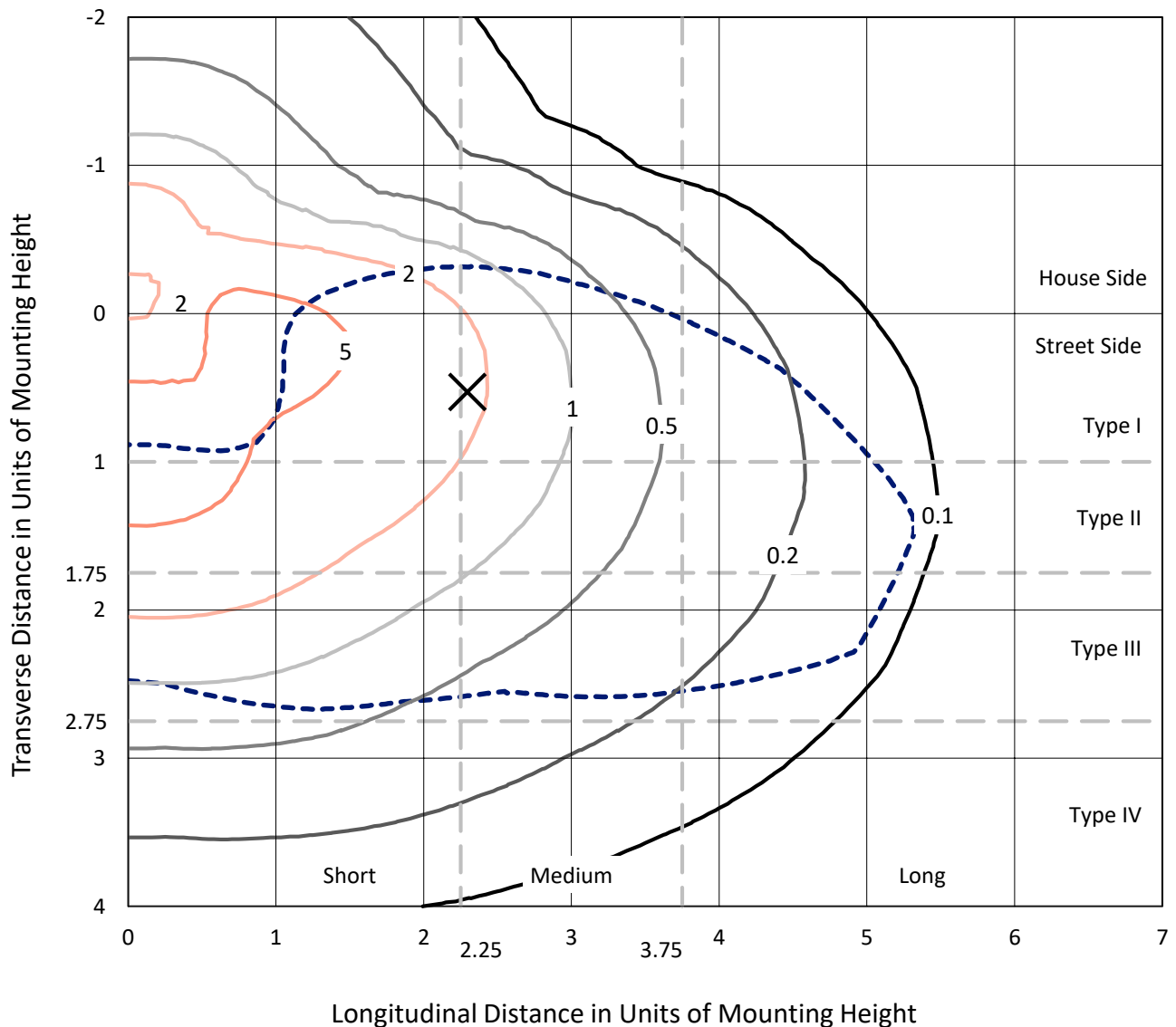
Input Watts (W): 94  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

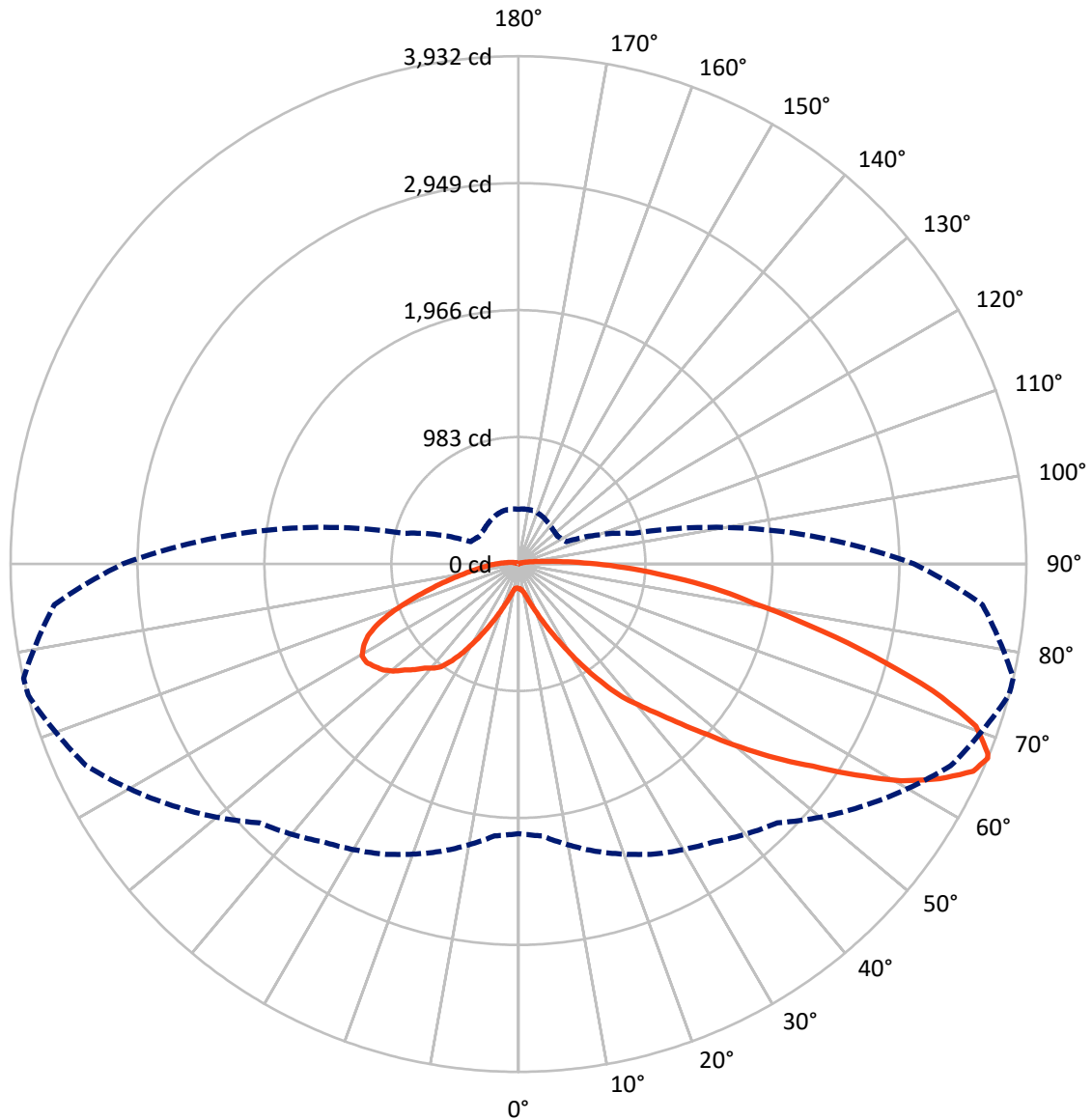
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 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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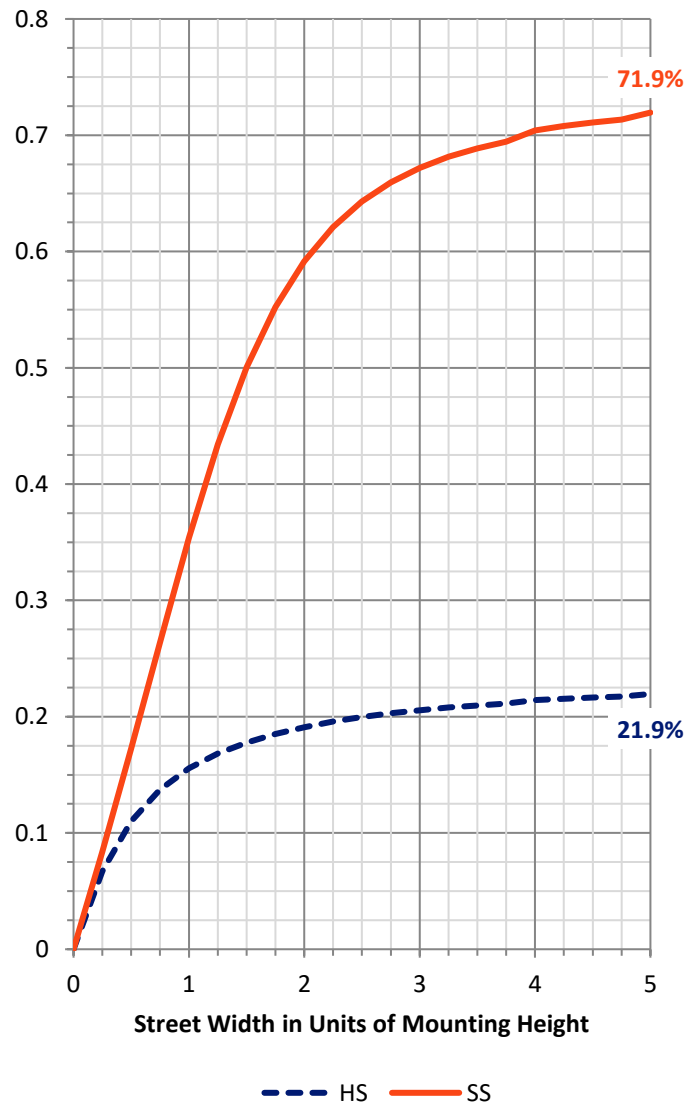
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1634.5	103.9	1738.4
	% Fixture	22.9	1.5	24.4
<b>Street Side</b>	Lumens	5254.8	135.3	5390.0
	% Fixture	73.7	1.9	75.6
<b>Total</b>	Lumens	6889.3	239.2	7128.5
	% Fixture	96.6	3.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.1	0.3
10°-20°	80.1	1.1
20°-30°	234.1	3.3
30°-40°	544.0	7.6
40°-50°	954.2	13.4
50°-60°	1466.3	20.6
60°-70°	1813.3	25.4
70°-80°	1265.9	17.8
80°-90°	512.4	7.2
90°-100°	151.4	2.1
100°-110°	48.9	0.7
110°-120°	20.8	0.3
120°-130°	10.7	0.2
130°-140°	5.5	0.1
140°-150°	1.7	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6889.3	96.6
0°-180°	7128.5	100.0



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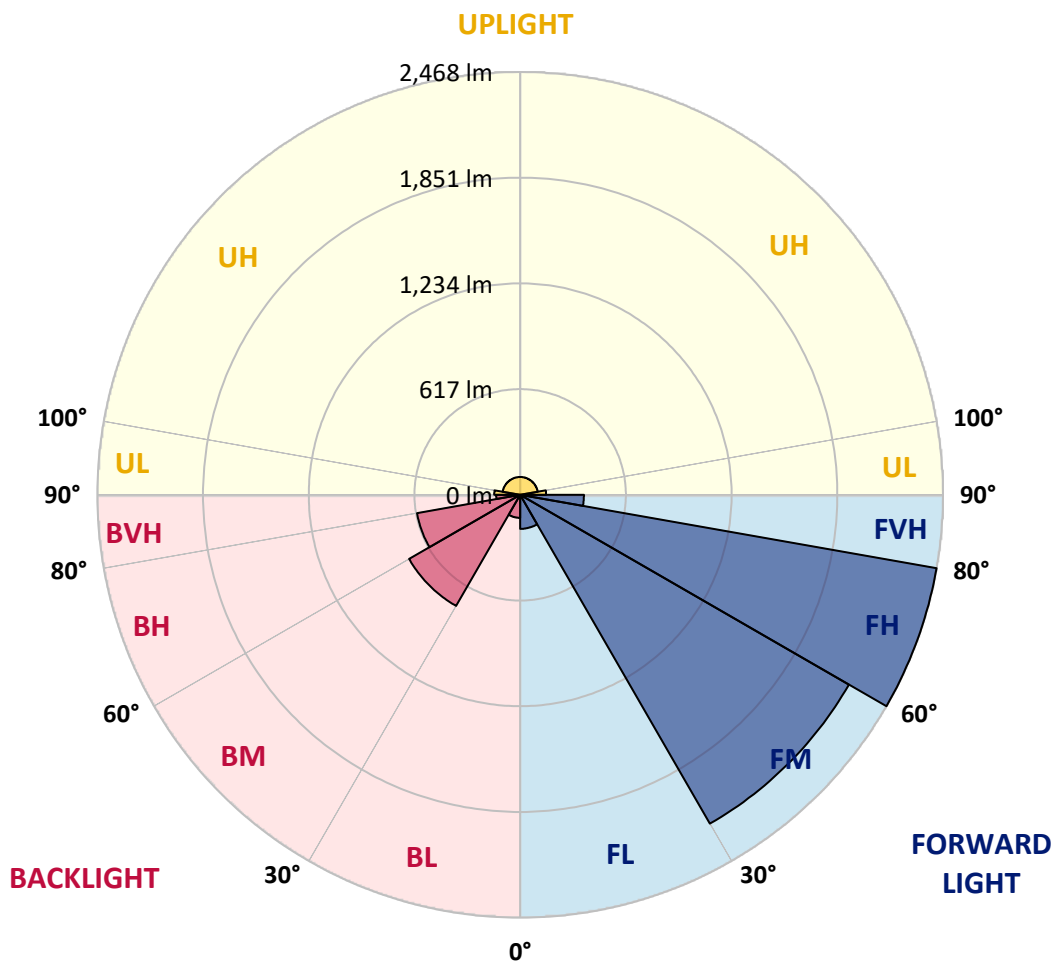
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	198.7	2.8			
FM (30°-60°)	2215.9	31.1			
FH (60°-80°)	2467.9	34.6			G2/5000
FVH (80°-90°)	372.2	5.2			G3/500
BL (0°-30°)	134.5	1.9	B1/500		
BM (30°-60°)	748.6	10.5	B1/1000		
BH (60°-80°)	611.3	8.6	B2/1000		G2/1000
BVH (80°-90°)	140.1	2.0			G2/225
UL (90°-100°)	151.4	2.1		U3/500	
UH (100°-180°)	103.9	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°	189.6	189.6	189.6	189.6	189.6	189.6	189.6	189.6	189.6	189.6	189.6
2.5°	201.7	202.5	202.5	202.5	201.7	200.0	197.4	195.7	193.0	192.1	190.5
5°	217.1	217.1	217.1	216.2	214.5	211.1	207.7	203.3	198.3	197.4	193.9
7.5°	234.3	235.0	234.3	232.5	228.3	224.8	219.6	213.6	207.7	205.9	201.7
10°	259.2	259.2	257.5	254.0	248.0	241.1	235.0	228.3	222.2	220.5	215.4
12.5°	296.9	296.9	293.4	284.0	274.6	265.1	258.4	253.1	249.6	247.2	243.7
15°	344.9	345.8	340.6	326.1	314.0	299.4	293.4	292.6	291.7	289.2	285.8
17.5°	403.2	403.2	394.7	375.0	359.5	345.8	339.7	339.7	339.7	339.7	338.1
20°	472.8	473.6	462.4	434.2	417.9	401.6	395.6	396.4	399.8	400.7	400.7
22.5°	562.0	565.5	548.3	509.7	489.9	466.0	461.6	466.0	475.4	478.0	482.2
25°	683.9	678.7	656.4	605.7	576.6	547.4	540.6	552.5	570.7	575.8	585.2
27.5°	811.7	812.5	780.8	719.1	670.1	635.0	631.6	655.6	681.4	688.2	703.6
30°	974.8	976.5	928.4	852.0	779.1	734.5	734.5	774.0	813.4	824.6	849.4
32.5°	1170.4	1168.7	1097.5	1005.7	904.5	849.4	851.2	908.6	965.3	978.3	1001.4
35°	1397.9	1395.2	1300.8	1179.8	1045.1	973.9	981.7	1054.6	1127.6	1139.5	1176.4
37.5°	1630.3	1632.8	1528.2	1374.6	1200.5	1106.9	1121.5	1208.2	1297.4	1306.0	1335.2
40°	1840.5	1853.5	1747.9	1576.3	1368.6	1246.8	1263.9	1347.2	1434.8	1438.1	1449.2
42.5°	2042.1	2044.0	1955.5	1772.7	1542.7	1401.3	1403.0	1482.7	1565.9	1580.6	1585.7
45°	2170.9	2188.9	2117.8	1952.9	1718.6	1559.1	1544.5	1624.3	1747.1	1764.2	1764.2
47.5°	2317.6	2336.5	2255.0	2115.1	1888.5	1717.9	1705.8	1808.0	1954.7	1972.7	1965.9
50°	2482.3	2505.6	2446.4	2294.5	2057.7	1886.9	1907.6	2026.8	2204.4	2230.1	2222.3
52.5°	2607.7	2632.6	2596.6	2489.3	2247.3	2084.2	2106.5	2273.0	2469.5	2495.2	2466.0
55°	2654.0	2688.4	2699.4	2644.6	2442.9	2293.6	2362.3	2542.5	2735.5	2762.9	2732.0
57.5°	2652.2	2687.5	2730.4	2722.7	2606.8	2509.0	2609.3	2819.6	3053.0	3080.5	3048.7
60°	2633.4	2674.7	2753.6	2763.8	2698.6	2698.6	2860.8	3149.9	3383.3	3408.3	3317.4
62.5°	2469.5	2521.1	2665.1	2768.9	2749.3	2820.5	3090.8	3423.7	3649.4	3661.4	3490.6
65°	2264.4	2312.4	2471.2	2639.4	2733.0	2863.3	3240.9	3618.5	3854.4	3868.2	3622.8
67°	2086.9	2112.5	2302.1	2478.2	2627.5	2834.2	3264.1	3693.1	3929.0	3931.7	3606.4
67.5°	2023.3	2049.9	2243.0	2431.0	2590.5	2813.6	3252.0	3699.9	3924.9	3919.7	3575.6
70°	1690.4	1705.8	1907.6	2149.5	2328.8	2591.4	3102.7	3567.0	3773.8	3758.4	3364.5
72.5°	1249.4	1262.2	1471.7	1765.9	1977.9	2267.1	2779.3	3283.8	3398.7	3356.7	2896.9
75°	865.7	876.0	1039.1	1290.5	1568.5	1874.0	2375.9	2794.7	2879.6	2827.3	2400.9
77.5°	572.3	580.0	707.1	905.2	1161.0	1498.3	1933.2	2309.1	2377.8	2316.8	1928.1
80°	362.9	368.9	463.3	619.6	851.2	1175.5	1552.2	1878.4	1907.6	1850.0	1506.7
82.5°	230.0	236.0	299.4	419.6	610.9	895.0	1221.1	1513.6	1553.1	1518.8	1178.1
85°	147.6	156.1	201.7	287.5	433.3	656.4	951.7	1203.9	1199.5	1143.0	865.0
87.5°	104.7	111.6	145.9	205.1	305.5	465.1	695.8	873.5	863.2	825.5	601.5
90°	78.2	83.3	108.2	149.3	219.6	326.1	482.2	605.0	574.9	551.6	397.3
92.5°	57.5	61.8	80.7	109.0	157.1	228.3	318.3	391.3	360.4	344.1	251.4
95°	42.0	44.6	59.2	79.8	114.2	158.7	208.4	246.2	221.4	210.3	158.7
97.5°	32.6	34.3	45.5	61.8	85.0	114.2	140.8	154.5	140.8	133.8	109.9
100°	27.5	28.3	37.8	48.9	67.0	86.6	100.4	105.6	96.9	92.6	79.8
102.5°	23.1	24.1	30.9	40.3	54.1	68.6	75.5	77.3	69.4	67.0	60.0
105°	19.8	20.7	26.6	34.3	45.5	55.8	59.2	57.5	50.7	48.9	45.5
107.5°	17.2	18.1	22.3	29.1	37.8	46.4	47.3	43.7	37.8	36.0	34.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	15.5	15.5	19.8	25.0	32.6	38.5	38.5	33.4	28.3	27.5	27.5
112.5°	13.7	13.7	17.2	21.5	28.3	32.6	31.7	26.6	21.5	20.7	21.5
115°	11.9	11.9	14.6	19.8	25.0	28.3	26.6	21.5	16.3	16.3	18.1
117.5°	11.1	11.1	13.7	18.1	22.3	25.0	22.3	17.2	13.7	13.7	14.6
120°	10.3	10.3	12.8	16.3	20.7	22.3	19.8	14.6	11.1	11.1	12.8
122.5°	10.3	10.3	11.9	15.5	18.9	19.8	17.2	12.8	9.4	10.3	11.1
125°	10.3	11.1	11.9	14.6	17.2	17.2	14.6	11.1	8.5	8.5	10.3
127.5°	11.1	11.1	11.9	13.7	15.5	15.5	12.8	9.4	8.5	8.5	9.4
130°	11.9	11.9	11.9	12.8	13.7	12.8	11.1	8.5	7.7	7.7	8.5
132.5°	11.9	11.9	11.9	11.9	11.9	11.1	9.4	7.7	6.8	7.7	8.5
135°	11.1	11.1	11.1	11.1	10.3	9.4	7.7	6.0	6.0	6.0	6.8
137.5°	10.3	9.4	9.4	9.4	8.5	7.7	6.0	4.3	5.1	5.1	6.0
140°	8.5	8.5	8.5	7.7	6.8	6.0	4.3	3.5	4.3	4.3	5.1
142.5°	6.8	6.8	6.8	6.0	5.1	4.3	2.5	2.5	3.5	4.3	4.3
145°	5.1	5.1	5.1	4.3	3.5	2.5	1.6	2.5	3.5	3.5	3.5
147.5°	3.5	3.5	3.5	3.5	1.6	0.9	1.6	1.6	2.5	2.5	3.5
150°	1.6	1.6	2.5	1.6	0.9	0.9	0.9	1.6	1.6	2.5	2.5
152.5°	0.9	0.9	1.6	0.9	0.0	0.0	0.0	0.9	1.6	1.6	1.6
155°	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9	1.6
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
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°	189.6	189.6	189.6	189.6	189.6	189.6	189.6	189.6	189.6	189.6	189.6
2.5°	189.6	188.7	187.0	184.5	182.7	181.8	181.8	180.2	180.2	180.2	179.3
5°	193.0	190.5	187.0	183.7	180.2	177.7	176.7	175.0	173.4	173.4	172.5
7.5°	198.3	195.7	189.6	184.5	179.3	175.9	174.2	172.5	170.8	169.9	169.1
10°	211.9	208.4	199.1	190.5	183.7	178.5	175.9	174.2	172.5	172.5	171.7
12.5°	240.2	234.3	222.2	207.7	193.0	185.3	182.7	188.7	191.3	193.9	193.9
15°	282.2	276.3	258.4	236.9	215.4	200.9	205.1	213.6	220.5	224.8	224.8
17.5°	333.8	324.4	302.0	271.2	242.8	232.5	230.9	240.2	250.5	256.6	256.6
20°	394.7	383.5	352.7	310.6	278.8	263.5	260.0	268.6	280.6	290.1	290.1
22.5°	473.6	460.8	415.2	356.1	314.9	293.4	289.2	297.8	314.9	327.8	327.0
25°	576.6	556.1	493.3	411.1	351.0	321.0	317.6	331.3	354.4	372.3	375.0
27.5°	695.8	666.7	573.2	470.3	386.1	344.9	345.8	364.7	393.0	412.7	412.7
30°	830.7	799.8	669.2	528.6	416.2	365.5	368.9	393.8	422.2	441.8	441.8
32.5°	986.8	941.3	770.6	586.1	442.8	381.1	384.5	414.5	442.8	464.2	465.1
35°	1144.7	1082.8	862.4	633.2	465.1	393.8	395.6	430.7	461.6	485.7	488.3
37.5°	1288.8	1208.9	943.8	665.9	475.4	399.8	402.4	442.8	478.7	501.2	501.2
40°	1391.7	1291.5	983.4	673.5	478.0	401.6	409.3	450.5	478.0	488.3	483.9
42.5°	1508.4	1384.9	1008.3	660.8	468.5	400.7	412.7	445.3	459.9	460.8	456.5
45°	1671.6	1511.0	1053.7	649.6	451.4	398.9	408.4	432.4	436.8	429.0	423.9
47.5°	1860.3	1648.4	1091.5	635.8	440.2	394.7	402.4	417.1	413.6	399.8	395.6
50°	2073.1	1822.5	1138.6	618.7	431.6	389.5	396.4	405.9	401.6	387.0	383.5
52.5°	2281.7	1975.3	1168.7	600.6	423.9	387.0	392.1	403.2	398.2	381.1	375.9
55°	2500.4	2130.6	1175.5	569.7	417.9	387.0	393.0	405.0	398.9	381.1	375.9
57.5°	2757.8	2298.0	1175.5	533.8	408.4	388.6	395.6	407.7	402.4	384.5	380.2
60°	2967.2	2417.2	1150.6	502.0	397.3	388.6	396.4	409.3	408.4	395.6	393.0
62.5°	3083.1	2460.9	1082.8	466.8	387.9	386.1	397.3	413.6	419.6	410.2	407.7
65°	3144.8	2446.4	1003.9	431.6	379.3	381.1	397.3	416.2	425.5	420.4	417.1
67°	3064.2	2343.4	917.3	407.7	370.7	376.7	395.6	416.2	429.0	427.4	423.9
67.5°	3023.9	2302.1	892.3	403.2	368.1	375.9	394.7	416.2	429.0	429.0	425.5
70°	2772.3	2070.6	762.8	371.5	351.7	362.9	385.3	411.9	426.4	427.4	425.5
72.5°	2343.4	1702.4	629.8	341.5	331.3	344.1	371.5	398.9	412.7	411.1	409.3
75°	1909.2	1372.9	513.1	312.3	307.2	321.8	346.7	372.3	381.8	377.6	375.9
77.5°	1511.8	1070.9	420.4	284.0	283.1	296.0	315.8	334.7	339.7	332.1	331.3
80°	1161.8	818.5	344.1	260.9	258.4	267.8	281.4	294.4	297.8	290.1	288.4
82.5°	889.9	620.4	285.8	235.0	234.3	239.4	248.8	257.5	263.5	255.7	253.1
85°	643.5	454.0	240.2	207.7	208.4	211.1	217.1	223.0	231.7	229.1	225.7
87.5°	448.8	329.5	204.3	181.8	181.8	183.7	187.0	193.0	204.3	203.3	200.0
90°	305.5	237.7	171.7	158.7	156.1	157.1	159.5	163.0	173.4	172.5	169.9
92.5°	204.3	169.1	139.0	131.3	130.4	131.3	131.3	133.8	139.0	136.5	133.8
95°	136.5	121.8	110.8	106.4	104.7	105.6	105.6	103.8	107.3	102.9	100.4
97.5°	97.8	91.7	89.2	85.8	83.3	84.1	84.1	82.4	83.3	77.3	75.5
100°	74.6	72.9	72.9	69.4	67.0	67.8	67.8	67.0	66.0	59.2	58.3
102.5°	59.2	58.3	59.2	56.7	54.1	55.8	54.9	54.1	52.3	46.4	45.5
105°	46.4	46.4	48.9	46.4	44.6	45.5	45.5	43.7	42.0	36.9	36.9
107.5°	36.0	36.9	39.4	37.8	36.9	37.8	36.9	35.2	32.6	29.1	29.1



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	28.3	30.1	32.6	31.7	30.9	31.7	30.1	28.3	25.7	24.1	24.1
112.5°	23.1	24.1	26.6	26.6	25.7	26.6	25.0	22.3	20.7	19.8	19.8
115°	18.9	20.7	22.3	22.3	22.3	22.3	20.7	18.1	16.3	16.3	16.3
117.5°	16.3	17.2	18.9	18.9	18.9	18.9	17.2	14.6	12.8	13.7	13.7
120°	13.7	14.6	16.3	16.3	16.3	16.3	14.6	11.9	10.3	11.1	11.1
122.5°	11.9	12.8	13.7	14.6	14.6	13.7	11.9	10.3	8.5	9.4	9.4
125°	11.1	11.9	11.9	12.8	11.9	11.9	10.3	8.5	7.7	8.5	8.5
127.5°	10.3	11.1	11.1	11.1	11.1	9.4	8.5	6.8	6.0	6.8	7.7
130°	9.4	10.3	10.3	9.4	8.5	7.7	6.8	6.0	5.1	6.0	6.8
132.5°	9.4	9.4	9.4	8.5	7.7	6.0	5.1	4.3	4.3	5.1	6.0
135°	7.7	7.7	7.7	6.8	5.1	4.3	3.5	3.5	3.5	4.3	4.3
137.5°	6.0	6.8	6.0	5.1	4.3	3.5	2.5	2.5	2.5	3.5	3.5
140°	5.1	5.1	5.1	4.3	3.5	1.6	0.9	0.9	1.6	1.6	2.5
142.5°	4.3	5.1	4.3	3.5	2.5	0.9	0.0	0.9	0.9	0.9	0.9
145°	4.3	4.3	3.5	2.5	1.6	0.9	0.0	0.0	0.9	0.0	0.0
147.5°	3.5	3.5	2.5	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.5	2.5	2.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.6	1.6	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.6	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	0.9	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)