

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: P266210

Luminaire Tested: **LXF.LXT-AF24-90-D-U-T2U-A-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266210  
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-AF24-90-D-U-T2U-A-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1180mA 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: 7141.2 lumens  
Efficiency: N/A  
Efficacy: 76.0 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): 94  
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

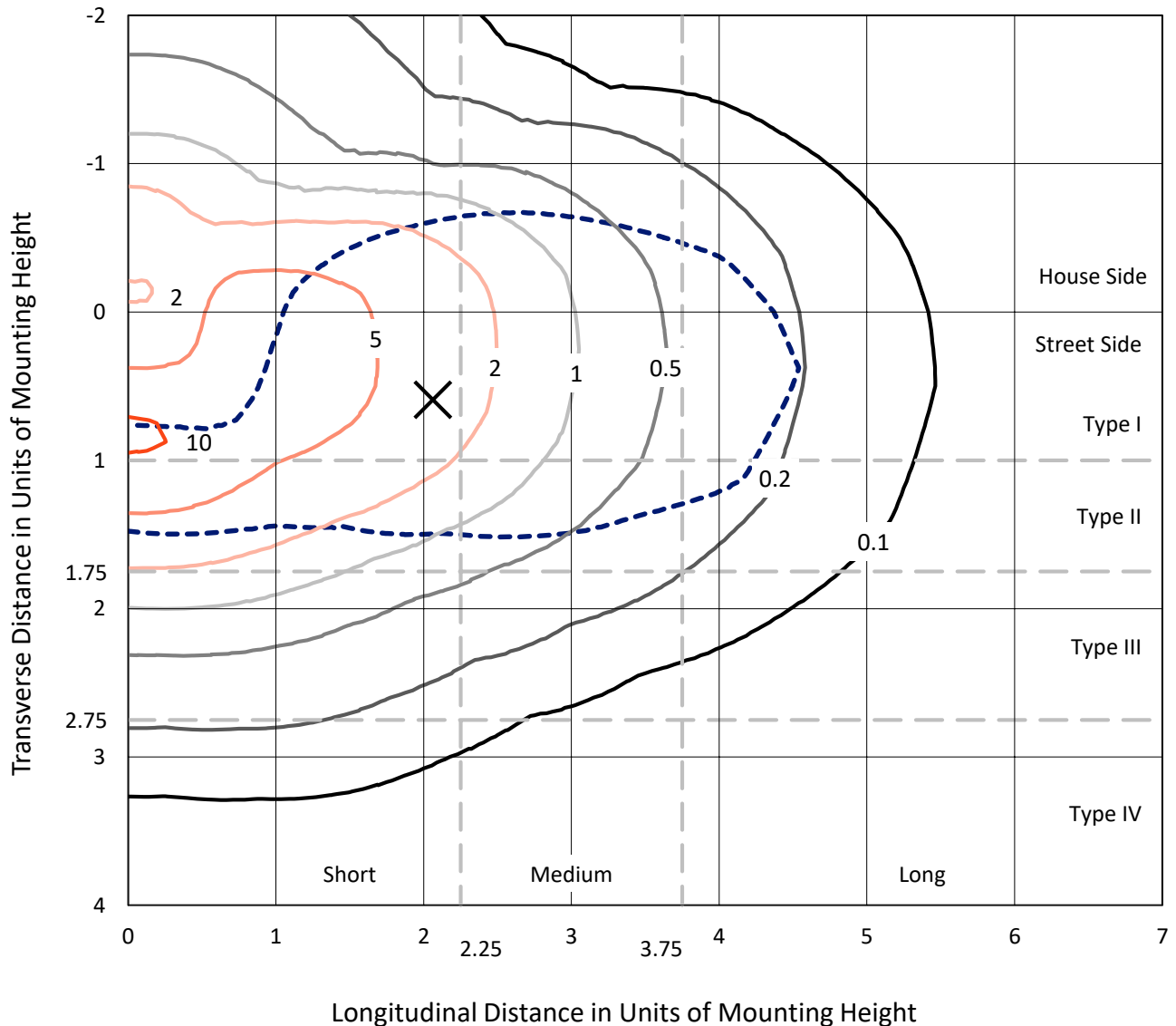


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

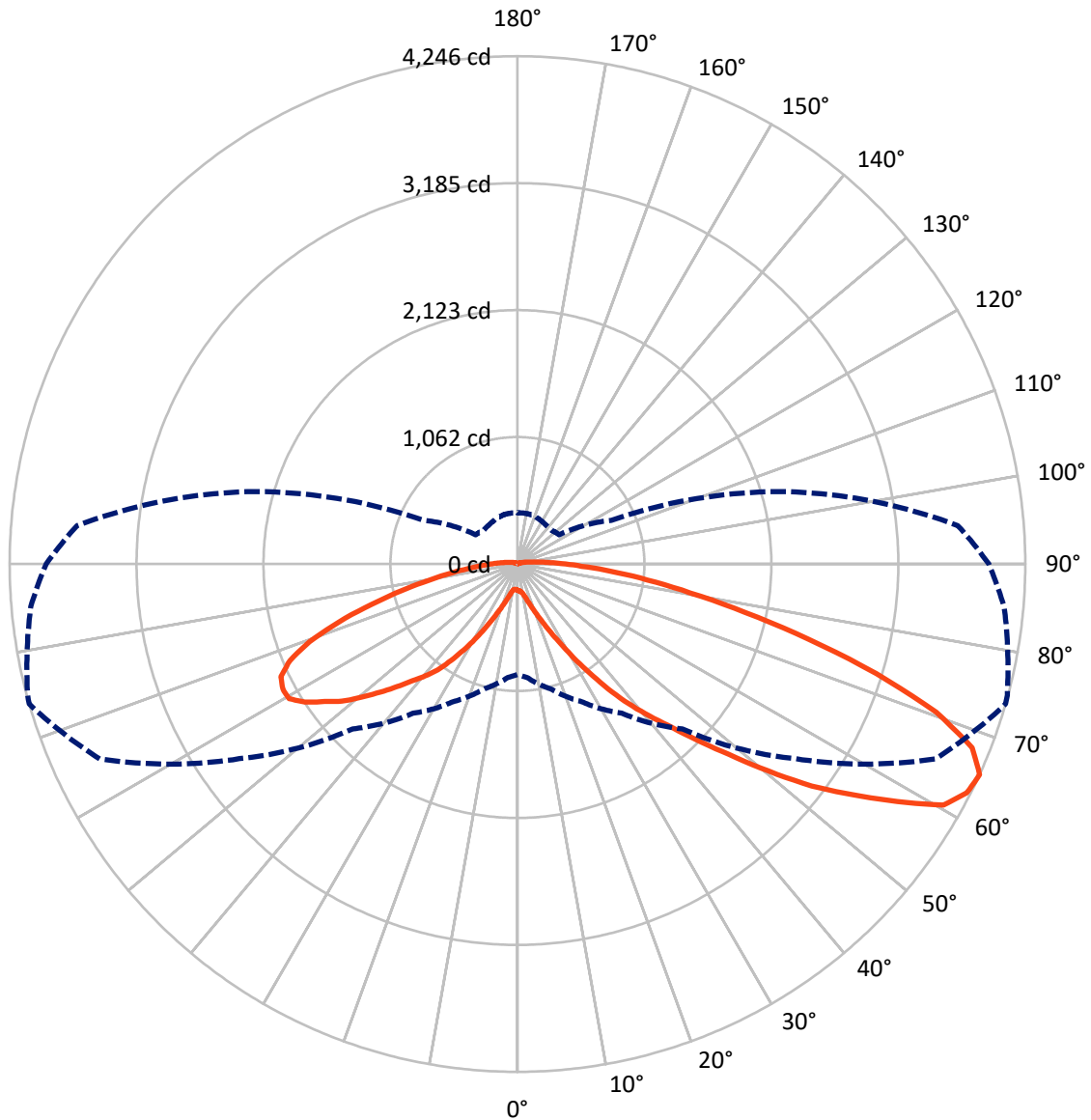


Based on 10 foot mounting height. Maximum calculated value = 10.7 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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



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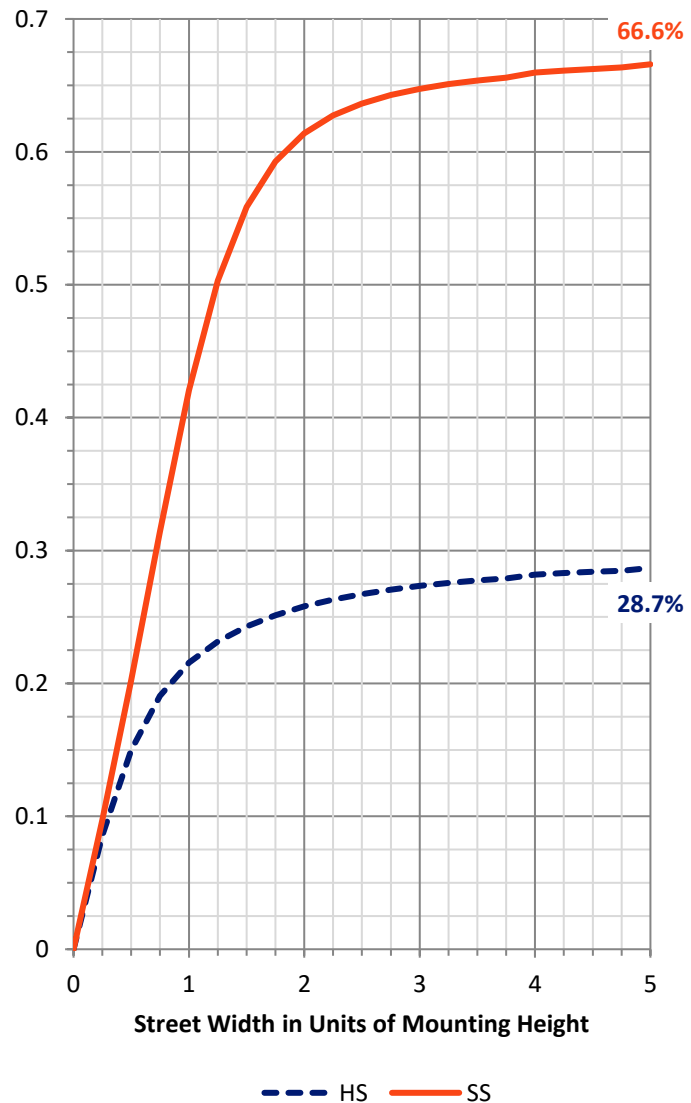
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2111.7	103.2	2214.9
	% Fixture	29.6	1.4	31.0
<b>Street Side</b>	Lumens	4821.1	105.1	4926.3
	% Fixture	67.5	1.5	69.0
<b>Total</b>	Lumens	6932.8	208.3	7141.2
	% Fixture	97.1	2.9	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.8	0.3
10°-20°	89.5	1.3
20°-30°	264.2	3.7
30°-40°	644.4	9.0
40°-50°	1176.4	16.5
50°-60°	1673.9	23.4
60°-70°	1685.2	23.6
70°-80°	997.8	14.0
80°-90°	379.7	5.3
90°-100°	119.7	1.7
100°-110°	45.2	0.6
110°-120°	21.7	0.3
120°-130°	12.3	0.2
130°-140°	6.9	0.1
140°-150°	2.3	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6932.8	97.1
0°-180°	7141.2	100.0

**Coefficient of Utilization**



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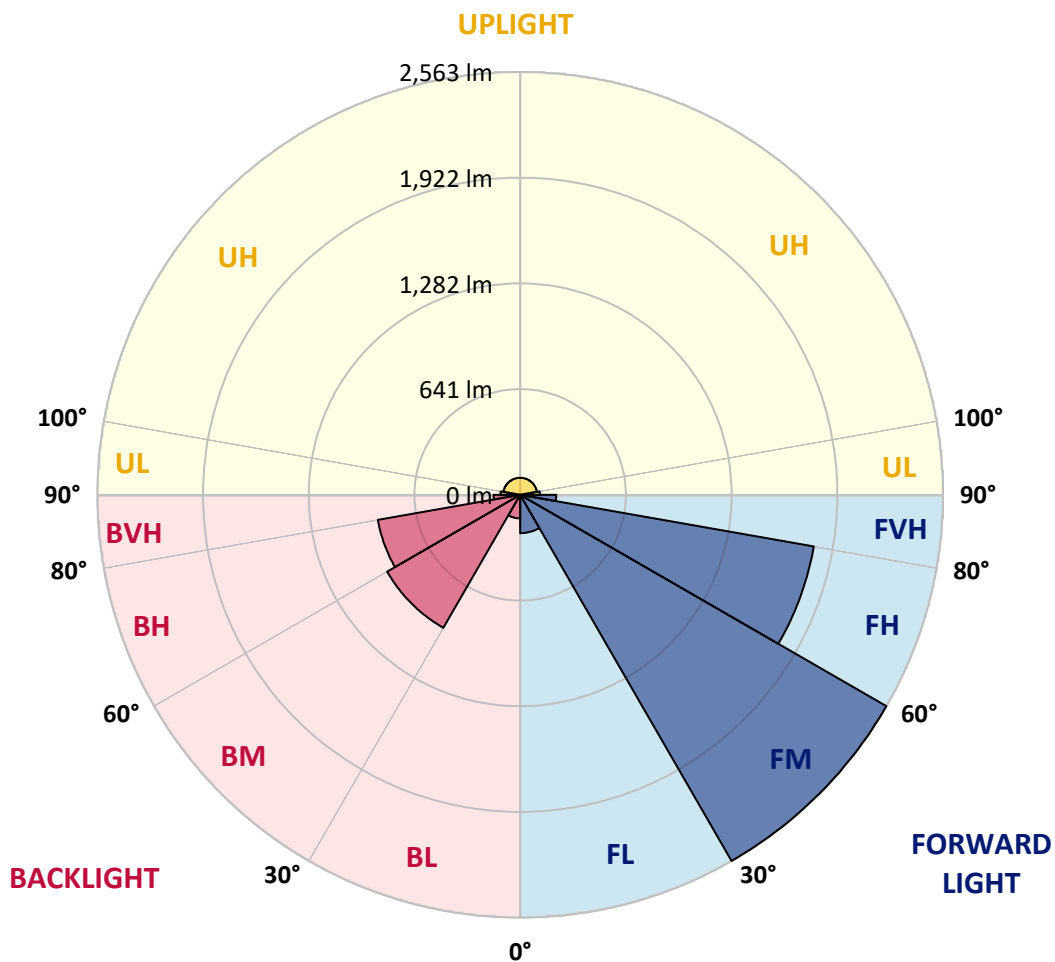
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	232.5	3.3			
FM (30°-60°)	2563.0	35.9			
FH (60°-80°)	1807.2	25.3			G2/5000
FVH (80°-90°)	218.5	3.1			G2/225
BL (0°-30°)	143.1	2.0	B1/500		
BM (30°-60°)	931.6	13.0	B1/1000		
BH (60°-80°)	875.8	12.3	B2/1000		G2/1000
BVH (80°-90°)	161.3	2.3			G2/225
UL (90°-100°)	119.7	1.7		U3/500	
UH (100°-180°)	103.2	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°	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6
2.5°	235.0	234.2	235.0	234.2	234.2	232.5	230.0	226.6	223.0	222.2	219.6
5°	251.3	251.3	251.3	249.6	247.9	245.3	240.2	234.2	228.2	227.5	222.2
7.5°	273.8	274.5	272.8	269.4	266.0	259.2	253.1	244.5	236.9	236.0	228.2
10°	307.2	306.3	303.7	299.4	290.1	282.2	271.9	260.0	251.3	249.6	240.2
12.5°	353.6	352.7	348.4	336.3	323.5	308.8	298.5	287.4	278.8	277.9	269.4
15°	413.5	411.9	403.2	387.8	367.1	348.4	339.7	328.6	320.1	319.2	310.5
17.5°	487.3	485.7	473.5	451.3	423.0	401.5	392.1	379.3	369.8	370.6	357.7
20°	579.9	575.8	559.5	529.5	495.1	469.4	454.7	441.8	434.2	433.3	423.8
22.5°	699.2	693.2	664.0	628.0	585.2	549.9	531.1	517.3	512.3	513.1	504.5
25°	852.0	840.9	804.0	754.1	700.9	646.9	624.6	609.2	611.7	613.5	604.9
27.5°	1033.1	1027.8	971.2	911.2	832.2	762.8	742.2	726.6	731.8	736.2	729.2
30°	1257.7	1240.6	1174.5	1084.4	982.3	897.4	870.8	865.6	879.4	885.4	881.1
32.5°	1516.0	1501.4	1411.3	1297.2	1148.8	1048.4	1017.6	1031.3	1053.6	1060.4	1055.2
35°	1822.3	1809.5	1688.5	1532.4	1343.5	1236.3	1195.1	1218.3	1246.7	1252.6	1245.0
37.5°	2139.0	2132.0	1999.9	1795.0	1564.0	1425.2	1389.9	1423.4	1453.4	1458.6	1432.8
40°	2410.1	2416.0	2283.9	2056.6	1790.6	1625.8	1605.4	1635.4	1643.9	1646.5	1597.5
42.5°	2630.5	2634.0	2518.9	2289.2	2003.4	1835.1	1824.1	1839.5	1842.1	1842.1	1785.4
45°	2688.8	2707.9	2641.7	2466.7	2205.9	2038.6	2038.6	2073.7	2090.8	2096.0	2023.2
47.5°	2715.4	2729.2	2691.5	2565.4	2368.9	2235.1	2279.7	2361.1	2378.4	2387.8	2294.2
50°	2691.5	2710.4	2703.4	2622.0	2480.4	2415.3	2545.5	2688.1	2719.8	2729.2	2615.1
52.5°	2502.7	2540.4	2597.1	2611.7	2548.2	2565.4	2815.0	3055.2	3083.5	3088.7	2919.8
55°	2230.0	2274.5	2370.5	2472.7	2533.6	2664.9	3076.8	3410.4	3403.6	3407.0	3213.1
57.5°	1886.7	1930.5	2060.1	2221.2	2398.0	2687.2	3233.7	3698.7	3745.9	3755.4	3571.8
60°	1571.0	1589.0	1728.0	1910.8	2145.0	2574.0	3233.7	3939.0	4092.6	4074.5	3825.7
62.5°	1207.2	1244.1	1389.0	1588.2	1843.0	2296.7	3116.2	4015.3	4216.0	4191.2	3957.8
65°	924.0	954.1	1081.9	1269.8	1523.7	1949.3	2837.3	3854.8	4246.1	4240.1	4084.9
67.5°	720.7	725.0	834.9	995.2	1205.4	1572.7	2380.9	3543.5	4101.1	4100.3	4007.6
70°	544.8	549.1	638.3	786.7	931.0	1202.9	1901.3	3036.5	3715.8	3704.7	3747.6
72.5°	416.2	421.2	491.6	609.9	715.6	898.3	1449.1	2441.9	3137.6	3153.9	3217.4
75°	321.8	327.0	381.8	473.5	548.2	658.9	1046.7	1838.7	2515.7	2542.3	2675.2
77.5°	247.9	253.1	296.9	366.4	421.2	483.1	729.2	1348.7	1945.9	1980.3	2128.7
80°	190.5	195.7	234.2	284.0	328.6	366.4	513.9	966.0	1464.5	1503.1	1675.6
82.5°	147.6	152.7	185.3	225.7	263.5	289.2	374.1	688.1	1092.2	1124.0	1303.4
85°	114.2	118.3	145.9	177.7	213.6	236.9	286.6	487.3	784.2	810.8	952.4
87.5°	88.4	91.7	114.2	139.9	173.4	196.5	228.2	354.3	537.9	558.6	652.9
90°	67.0	70.3	88.4	108.1	137.4	162.1	182.7	254.8	369.8	381.8	429.8
92.5°	48.9	51.5	66.0	80.7	104.7	128.6	145.9	188.7	251.3	257.4	277.9
95°	36.9	38.5	48.9	60.0	79.0	99.5	113.2	139.0	169.1	172.5	179.3
97.5°	29.1	30.1	37.8	46.4	60.9	77.3	87.6	102.0	119.3	121.0	124.4
100°	25.0	25.7	31.7	38.5	48.9	61.8	69.4	79.0	88.4	89.2	91.7
102.5°	21.5	22.3	26.6	31.7	41.2	51.5	56.7	62.6	67.8	67.0	69.4
105°	18.9	18.9	23.1	27.5	35.2	42.8	46.4	49.8	51.5	51.5	53.2
107.5°	16.3	17.2	19.8	24.1	30.9	36.9	38.5	39.4	39.4	39.4	41.2
110°	14.6	14.6	17.2	20.7	26.6	31.7	32.6	31.7	30.9	30.9	32.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
112.5°	12.8	12.8	14.6	18.9	24.1	28.2	28.2	26.6	24.1	24.1	25.7
115°	11.1	11.9	12.8	17.2	22.3	25.7	25.0	22.3	19.8	19.8	21.5
117.5°	10.3	10.3	11.9	15.5	20.7	23.1	22.3	18.9	16.3	16.3	18.1
120°	10.3	10.3	11.1	14.6	18.9	21.5	19.8	16.3	13.7	13.7	16.3
122.5°	10.3	10.3	11.1	13.7	17.2	18.9	18.1	14.6	11.9	11.9	13.7
125°	11.1	11.1	11.1	13.7	16.3	18.1	16.3	13.7	11.1	11.1	11.9
127.5°	11.9	11.9	11.9	13.7	15.5	16.3	14.6	11.9	10.3	10.3	11.1
130°	12.8	12.8	11.9	12.8	14.6	14.6	13.7	11.1	9.4	9.4	11.1
132.5°	12.8	12.8	11.9	11.9	12.8	12.8	11.9	9.4	8.5	8.5	10.3
135°	11.9	11.9	11.1	11.1	11.1	11.1	9.4	7.7	7.7	7.7	8.5
137.5°	11.1	11.1	10.3	10.3	10.3	9.4	7.7	6.0	6.0	6.0	7.7
140°	9.4	9.4	9.4	8.5	8.5	7.7	6.0	5.1	5.1	5.1	6.0
142.5°	8.5	7.7	7.7	6.8	6.8	6.0	4.3	3.5	3.5	3.5	4.3
145°	6.8	6.8	6.0	5.1	5.1	4.3	2.5	1.6	2.5	2.5	3.5
147.5°	5.1	5.1	4.3	4.3	3.5	2.5	0.9	1.6	1.6	1.6	2.5
150°	3.5	3.5	3.5	2.5	1.6	0.9	0.9	0.9	0.9	1.6	1.6
152.5°	1.6	1.6	1.6	0.9	0.0	0.0	0.0	0.9	0.9	0.9	1.6
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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°	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6	219.6
2.5°	217.8	217.1	215.4	211.9	211.0	209.3	206.8	205.9	204.3	205.1	204.3
5°	219.6	217.8	211.9	208.4	204.3	201.6	199.1	197.4	195.7	194.8	193.9
7.5°	223.9	221.3	214.4	207.6	201.6	197.4	193.9	191.2	189.6	188.7	187.8
10°	235.0	231.7	221.3	211.9	202.5	196.5	192.1	189.6	187.8	187.8	187.8
12.5°	262.6	258.3	242.8	226.6	211.0	201.6	196.5	200.0	204.3	208.4	211.0
15°	302.0	296.9	277.9	254.8	231.7	217.8	218.7	225.7	230.9	236.0	236.9
17.5°	351.7	344.9	320.9	290.1	259.2	247.9	244.5	251.3	260.0	265.1	267.6
20°	413.5	405.0	374.1	331.1	300.4	284.0	276.3	278.8	288.3	296.9	297.7
22.5°	492.5	477.0	441.0	381.8	343.2	318.3	307.2	307.2	320.1	331.1	332.9
25°	592.8	578.2	520.7	446.2	389.5	351.7	338.9	341.4	358.7	373.2	375.0
27.5°	716.4	695.7	620.3	522.5	437.6	380.9	367.1	374.1	391.2	406.8	408.4
30°	864.0	831.4	735.4	604.9	484.7	410.2	388.6	397.2	412.7	429.0	429.0
32.5°	1031.3	992.6	864.9	692.5	529.5	430.6	400.6	411.9	427.2	443.6	442.8
35°	1212.4	1167.6	999.5	780.7	569.6	445.3	406.8	419.6	437.6	457.2	457.2
37.5°	1396.0	1350.4	1135.1	859.7	598.0	446.9	408.4	427.2	451.3	469.4	467.6
40°	1546.9	1485.2	1245.0	916.4	609.9	442.8	411.0	431.5	449.6	457.2	455.6
42.5°	1728.0	1649.0	1353.8	945.5	602.4	435.0	411.9	426.4	435.0	435.0	431.5
45°	1946.7	1856.6	1489.5	976.4	582.6	426.4	407.6	416.2	416.2	409.3	404.1
47.5°	2211.8	2090.0	1632.7	1003.9	562.9	418.7	403.2	406.8	397.2	386.9	383.5
50°	2520.7	2373.1	1790.6	1023.6	544.0	412.7	401.5	399.8	393.0	382.7	379.3
52.5°	2805.5	2639.9	1954.4	1039.0	524.3	410.2	401.5	401.5	394.6	380.2	376.7
55°	3086.1	2909.4	2085.8	1030.4	502.8	411.0	405.0	406.8	397.2	382.7	379.3
57.5°	3439.6	3249.2	2241.9	1014.9	480.5	412.7	408.4	410.2	401.5	387.8	384.4
60°	3684.9	3473.9	2353.4	991.0	459.9	412.7	410.2	412.7	410.2	403.2	400.6
62.5°	3830.8	3595.7	2365.4	936.0	444.4	409.3	408.4	417.0	423.0	420.3	417.8
65°	3940.7	3695.3	2338.8	864.9	426.4	399.8	404.1	417.8	428.1	429.0	428.1
67.5°	3855.7	3602.7	2210.1	781.6	405.0	387.8	396.4	411.9	427.2	432.4	431.5
70°	3594.9	3346.0	1988.8	679.5	380.2	368.9	380.9	401.5	417.8	423.8	422.2
72.5°	3058.6	2836.5	1684.2	581.7	350.9	344.1	356.9	380.9	394.6	398.0	395.6
75°	2532.0	2336.3	1352.2	479.6	319.2	313.1	325.1	344.1	353.6	353.6	349.3
77.5°	2024.1	1842.1	1064.8	398.0	286.6	279.7	290.8	302.0	303.7	297.7	293.4
80°	1589.8	1418.2	806.5	329.5	253.1	246.2	249.6	256.6	259.2	247.9	242.0
82.5°	1233.0	1079.4	605.7	272.8	220.5	211.9	214.4	217.8	218.7	205.1	198.2
85°	888.9	773.0	444.4	230.0	189.6	181.8	181.0	181.8	182.7	170.8	164.7
87.5°	609.9	529.5	325.1	193.0	163.9	156.1	154.4	153.6	153.6	140.8	134.7
90°	401.5	355.2	242.0	163.0	139.0	131.2	127.9	127.0	125.3	111.5	106.4
92.5°	260.8	238.5	179.3	133.8	115.0	108.1	103.8	101.2	98.6	85.8	80.7
95°	170.8	161.2	135.6	107.3	92.6	86.6	83.3	79.8	76.4	65.1	61.8
97.5°	121.0	117.6	105.6	86.6	73.8	69.4	67.0	64.4	61.8	52.3	50.7
100°	91.0	90.1	84.9	71.2	60.0	57.5	54.8	53.2	51.5	44.6	42.8
102.5°	70.3	71.2	69.4	58.3	50.7	48.1	46.4	44.6	43.7	38.5	37.8
105°	54.8	56.7	55.8	48.9	42.8	41.2	39.4	37.8	36.9	33.4	33.4
107.5°	42.8	44.6	45.5	40.3	36.9	35.2	33.4	31.7	31.7	30.1	30.1
110°	34.3	36.0	37.8	34.3	31.7	30.9	29.1	27.5	26.6	26.6	26.6



REPORT NUMBER: P266210

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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	28.2	29.1	30.9	29.1	27.5	26.6	25.0	23.1	23.1	23.1	24.1
115°	23.1	25.0	25.7	25.0	24.1	24.1	21.5	19.8	18.9	20.7	20.7
117.5°	19.8	21.5	22.3	21.5	21.5	21.5	18.9	17.2	16.3	17.2	18.1
120°	17.2	18.1	18.9	18.9	18.9	18.9	17.2	14.6	13.7	15.5	15.5
122.5°	14.6	15.5	16.3	17.2	17.2	16.3	14.6	12.8	11.9	13.7	13.7
125°	12.8	13.7	14.6	15.5	15.5	14.6	12.8	11.1	10.3	11.9	11.9
127.5°	11.9	12.8	13.7	13.7	13.7	12.8	11.1	9.4	9.4	10.3	11.1
130°	11.9	11.9	12.8	12.8	11.9	11.1	9.4	7.7	7.7	9.4	9.4
132.5°	11.1	11.1	11.1	11.1	10.3	9.4	7.7	6.8	6.8	8.5	8.5
135°	9.4	9.4	9.4	9.4	8.5	7.7	6.8	5.1	6.0	6.8	6.8
137.5°	7.7	7.7	7.7	7.7	6.8	6.0	5.1	4.3	4.3	5.1	6.0
140°	6.0	6.8	6.8	6.0	5.1	5.1	3.5	2.5	3.5	4.3	4.3
142.5°	5.1	5.1	5.1	4.3	4.3	3.5	2.5	1.6	2.5	3.5	3.5
145°	4.3	4.3	4.3	4.3	3.5	1.6	0.9	0.9	1.6	1.6	1.6
147.5°	3.5	3.5	3.5	3.5	2.5	1.6	0.0	0.0	0.9	0.9	0.9
150°	2.5	2.5	2.5	2.5	1.6	0.9	0.0	0.0	0.0	0.0	0.0
152.5°	1.6	1.6	2.5	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	1.6	1.6	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	0.9	0.9	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)