

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: P561348

Luminaire Tested: **SDL-PA1-90-830-U-T2R-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-19)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-90-830-U-T2R-A
Description: Springdale
(1) 80 CRI, 3000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II R OPTICS
AND CLEAR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6660.8 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Medium
BUG Rating: B1 - U3 - G2

Input Watts (W): 92.4
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: 24 FT

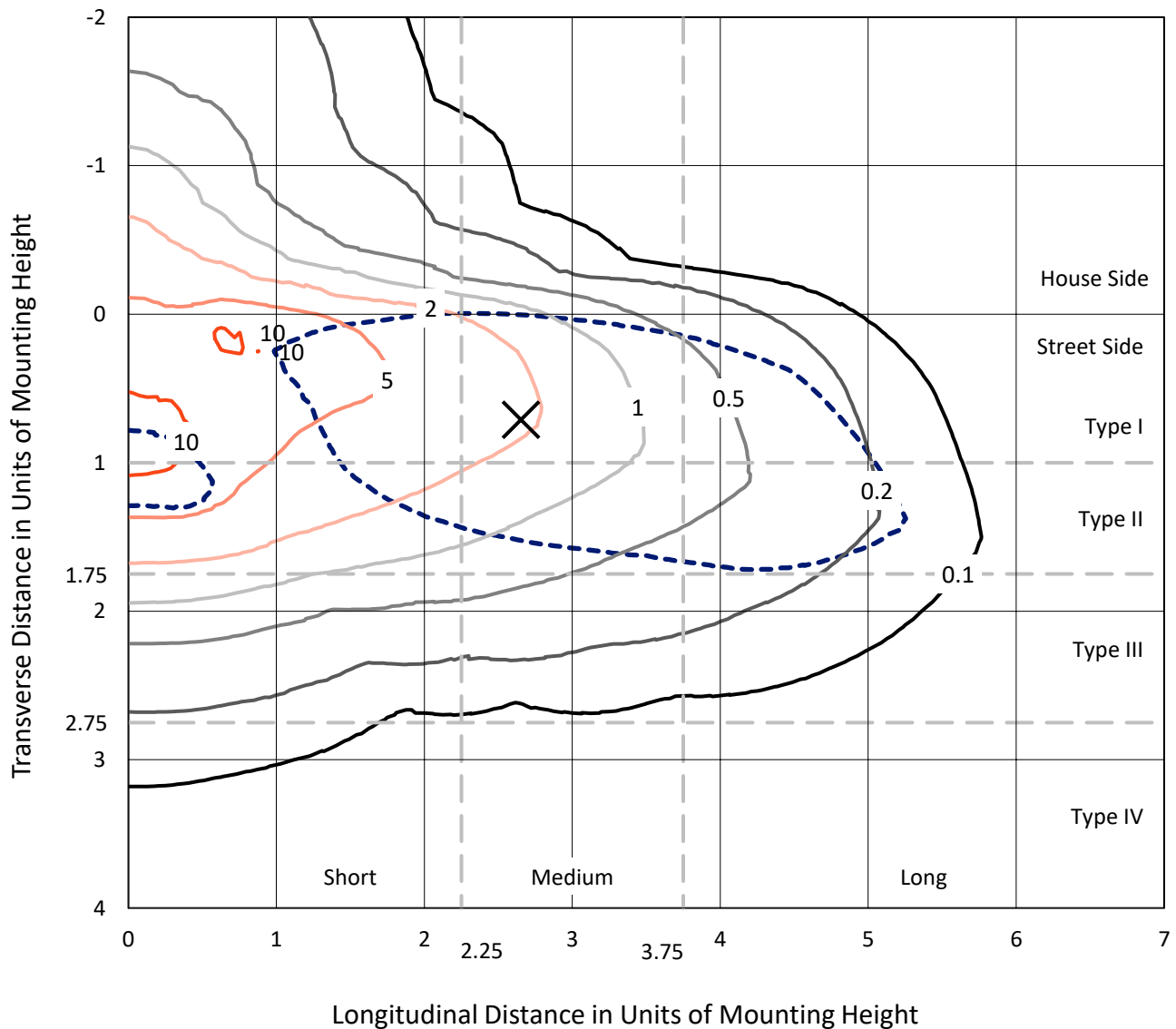


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

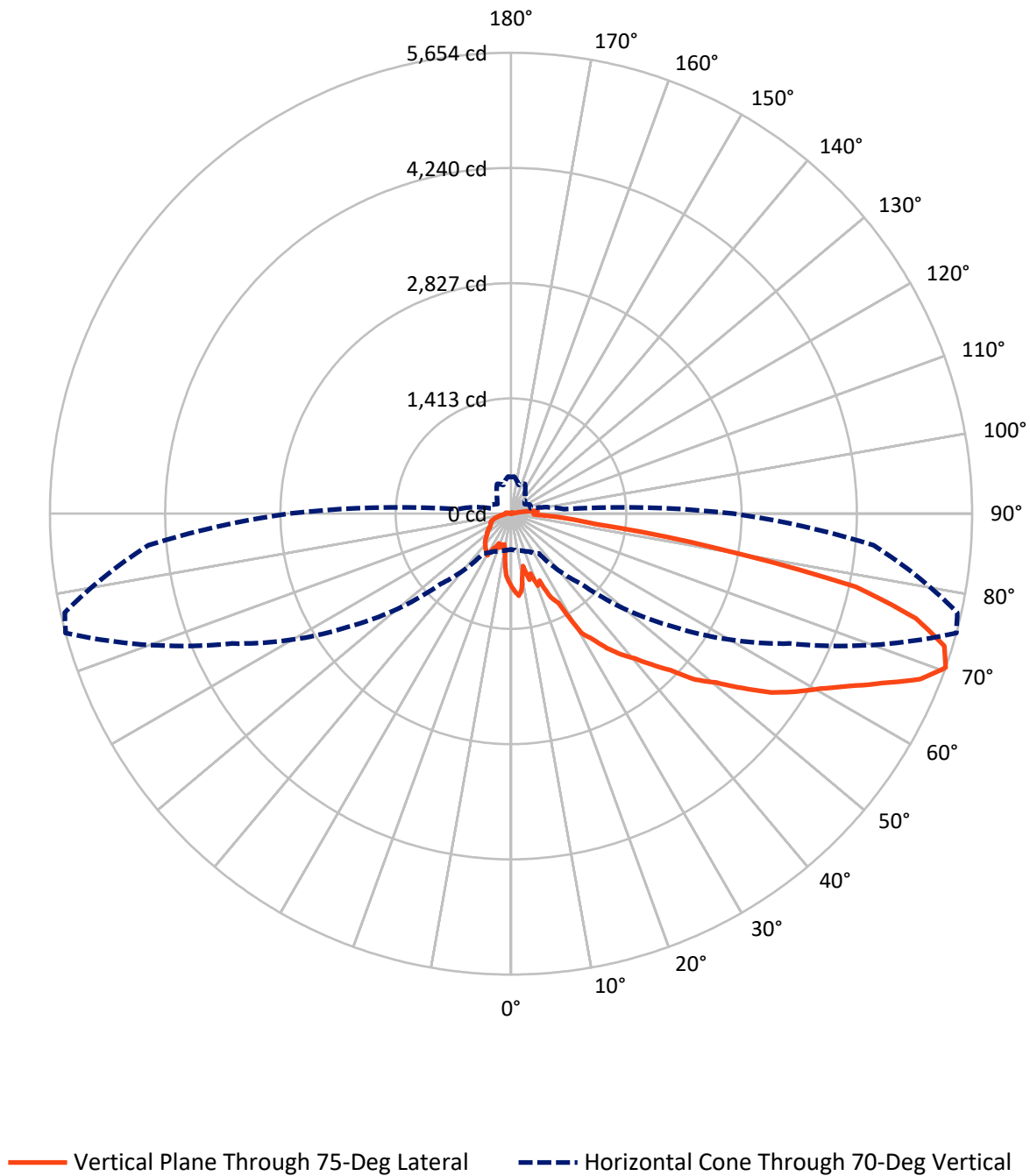


Based on 10 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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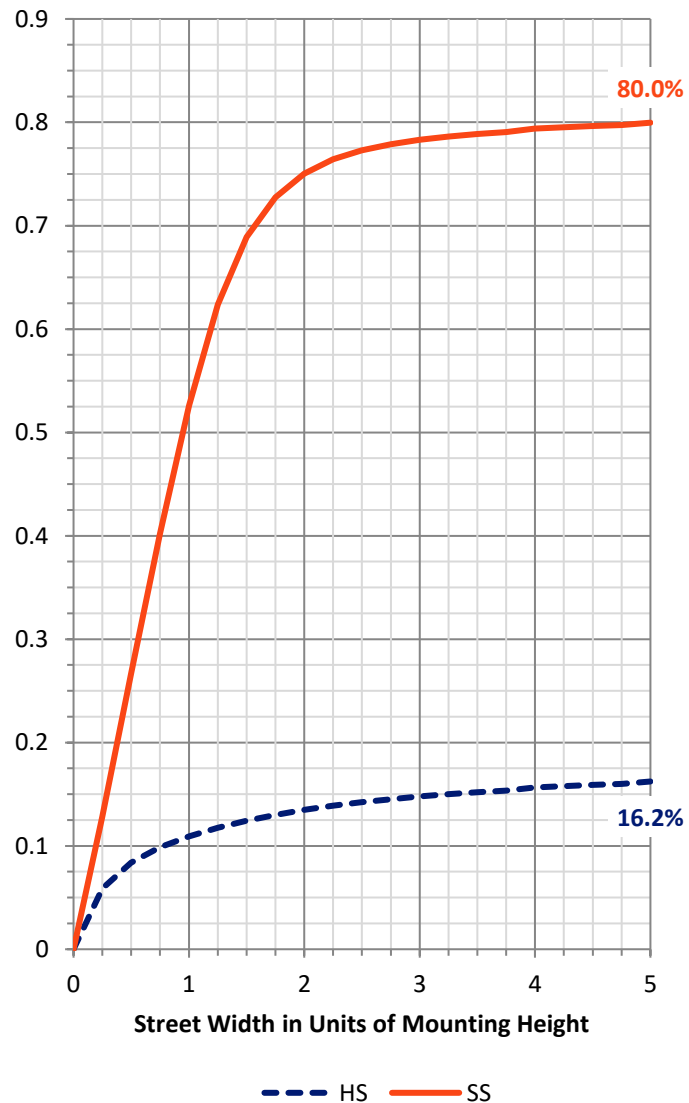
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1138.7	68.1	1206.8
	% Fixture	17.1	1.0	18.1
Street Side	Lumens	5367.9	86.1	5454.0
	% Fixture	80.6	1.3	81.9
Total	Lumens	6506.6	154.2	6660.8
	% Fixture	97.7	2.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	1.1
10°-20°	194.3	2.9
20°-30°	350.8	5.3
30°-40°	716.7	10.8
40°-50°	1125.5	16.9
50°-60°	1382.1	20.7
60°-70°	1374.6	20.6
70°-80°	1016.7	15.3
80°-90°	271.6	4.1
90°-100°	100.4	1.5
100°-110°	23.5	0.4
110°-120°	11.1	0.2
120°-130°	9.9	0.1
130°-140°	4.8	0.1
140°-150°	2.4	0.0
150°-160°	2.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	6506.6	97.7
0°-180°	6660.8	100.0

Coefficient of Utilization



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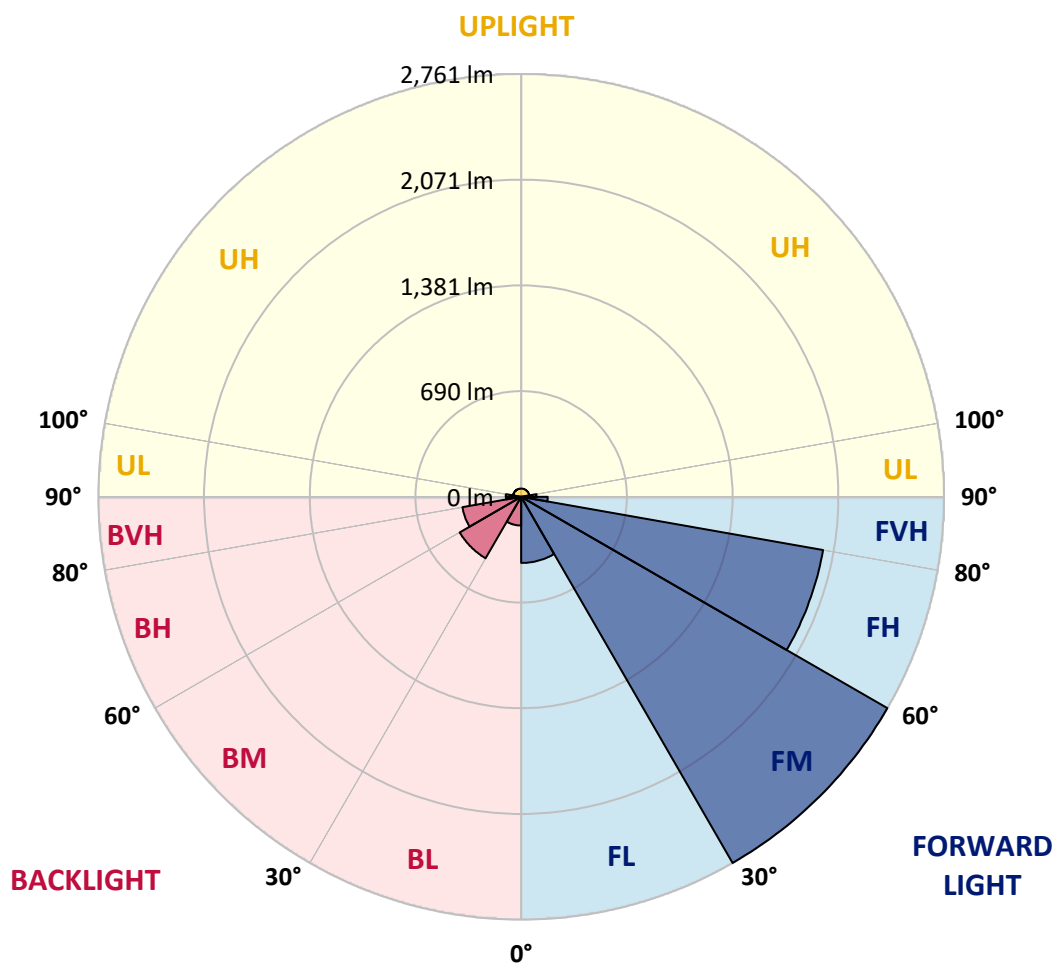
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	431.7	6.5			
FM	(30°-60°)	2761.0	41.5			
FH	(60°-80°)	2001.8	30.1			G2/5000
FVH	(80°-90°)	173.4	2.6			G2/225
BL	(0°-30°)	187.7	2.8	B1/500		
BM	(30°-60°)	463.3	7.0	B1/1000		
BH	(60°-80°)	389.5	5.8	B1/500		G1/500
BVH	(80°-90°)	98.2	1.5			G1/100
UL	(90°-100°)	100.4	1.5		U3/500	
UH	(100°-180°)	53.8	0.8		U3/500	

BUG Rating: B1-U3-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	892.8	892.8	892.8	892.8	892.8	892.8	892.8	892.8	892.8	892.8	892.8
2.5°	926.7	978.7	1002.1	1028.2	1051.6	1038.6	1017.8	986.5	957.9	947.5	916.2
5°	1023.0	1017.8	1015.2	1007.3	994.3	970.9	942.3	1054.2	1009.9	991.7	939.7
7.5°	900.6	1043.8	1059.4	1075.0	1069.8	1041.2	1004.7	903.2	942.3	918.8	853.8
10°	1101.0	1101.0	1095.8	1101.0	1041.2	994.3	851.2	791.3	762.7	825.1	765.3
12.5°	937.1	1020.4	1124.5	1145.3	1054.2	924.0	864.2	835.5	658.5	650.7	697.6
15°	1090.6	1103.7	1106.3	1111.5	898.0	968.3	799.1	741.8	840.8	817.3	825.1
17.5°	877.2	890.2	1059.4	1049.0	965.7	773.1	934.5	838.2	773.1	744.4	734.0
20°	1103.7	1106.3	1098.4	887.6	931.9	1009.9	874.6	848.6	942.3	939.7	900.6
22.5°	939.7	942.3	970.9	1069.8	963.1	1020.4	879.8	1059.4	892.8	895.4	695.0
25°	1257.2	1259.8	1233.8	952.7	1082.8	957.9	1067.2	952.7	1140.1	1103.7	1017.8
27.5°	1319.7	1223.4	1124.5	1181.7	1033.4	1189.5	1015.2	1153.1	1239.0	1231.2	1244.2
30°	1673.7	1678.9	1611.2	1293.7	1210.4	1173.9	1171.3	1369.2	1697.1	1710.1	1494.1
32.5°	2267.2	2235.9	1902.8	1595.6	1304.1	1431.6	1314.5	1585.2	1835.1	1827.3	1600.8
35°	2537.9	2506.6	2381.7	1970.4	1507.1	1546.2	1483.7	1686.7	2025.1	1965.2	1707.5
37.5°	2766.9	2761.7	2657.6	2170.9	1712.7	1770.0	1585.2	1811.7	2189.1	2126.6	1816.9
40°	2964.8	2946.5	2855.4	2350.5	1923.6	1926.2	1712.7	1962.6	2334.8	2350.5	1923.6
42.5°	3128.7	3113.1	3037.6	2530.1	2048.5	2064.1	1848.1	2116.2	2530.1	2558.7	2090.2
45°	3196.4	3204.2	3152.2	2691.5	2160.4	2189.1	2009.5	2272.4	2738.3	2761.7	2238.5
47.5°	3245.9	3248.5	3235.5	2824.2	2280.2	2293.2	2168.3	2412.9	3040.2	2993.4	2412.9
50°	3134.0	3123.5	3136.6	2925.7	2384.3	2399.9	2301.0	2558.7	3256.3	3196.4	2595.1
52.5°	2839.8	2852.8	2988.2	2873.7	2418.1	2449.4	2426.0	2686.2	3555.6	3508.8	2855.4
55°	2100.6	2157.8	2548.3	2660.2	2415.5	2470.2	2540.5	2928.3	3870.6	3800.3	3076.7
57.5°	1699.7	1699.7	1928.8	2295.8	2282.8	2457.2	2657.6	3092.3	4120.5	4071.0	3297.9
60°	1363.9	1363.9	1488.9	1822.1	2025.1	2392.1	2777.3	3334.4	4357.3	4328.7	3493.2
62.5°	1069.8	1067.2	1171.3	1358.7	1660.7	2248.9	2839.8	3542.6	4654.1	4648.9	3805.5
65°	773.1	783.5	872.0	989.1	1304.1	1980.8	2837.2	3730.0	5010.7	5026.3	4156.9
67.5°	572.6	577.9	627.3	713.2	895.4	1642.5	2712.3	3860.2	5414.1	5388.1	4380.8
70°	439.9	447.7	468.5	512.8	596.1	1220.8	2410.3	3769.1	5653.6	5604.2	4464.1
72.5°	369.6	372.2	369.6	393.0	398.3	827.7	1931.4	3422.9	5554.7	5476.6	4235.0
75°	315.0	312.4	309.8	315.0	294.1	546.6	1384.8	2897.1	5127.8	4992.5	3740.4
77.5°	270.7	268.1	257.7	260.3	234.3	403.5	944.9	2272.4	4320.9	4003.3	2811.2
80°	223.9	223.9	216.0	216.0	197.8	307.1	603.9	1567.0	2517.1	2264.6	1462.9
82.5°	174.4	171.8	171.8	177.0	169.2	239.5	395.6	780.9	1038.6	973.5	684.6
85°	93.7	93.7	106.7	119.7	117.1	145.8	301.9	460.7	614.3	593.5	382.6
87.5°	28.6	28.6	31.2	39.0	41.6	78.1	190.0	223.9	278.5	307.1	301.9
90°	31.2	28.6	20.8	23.4	26.0	57.3	177.0	216.0	281.1	312.4	320.2
92.5°	36.4	33.8	20.8	20.8	26.0	46.9	169.2	210.8	307.1	338.4	346.2
95°	39.0	36.4	20.8	20.8	26.0	41.6	151.0	208.2	328.0	369.6	369.6
97.5°	36.4	33.8	15.6	18.2	23.4	36.4	117.1	171.8	229.1	252.5	291.5
100°	31.2	31.2	10.4	15.6	20.8	26.0	67.7	93.7	67.7	65.1	65.1
102.5°	28.6	28.6	10.4	13.0	15.6	18.2	31.2	49.5	15.6	18.2	23.4
105°	28.6	31.2	7.8	10.4	10.4	10.4	15.6	26.0	13.0	15.6	23.4
107.5°	28.6	31.2	7.8	7.8	10.4	7.8	7.8	10.4	13.0	15.6	26.0
110°	26.0	26.0	5.2	7.8	7.8	7.8	5.2	7.8	13.0	18.2	26.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
112.5°	18.2	18.2	5.2	7.8	7.8	7.8	5.2	7.8	13.0	18.2	26.0
115°	13.0	10.4	5.2	7.8	5.2	7.8	5.2	7.8	13.0	18.2	23.4
117.5°	10.4	7.8	5.2	5.2	5.2	5.2	2.6	7.8	15.6	20.8	28.6
120°	10.4	10.4	5.2	5.2	5.2	5.2	2.6	7.8	23.4	26.0	36.4
122.5°	10.4	10.4	5.2	5.2	5.2	5.2	2.6	5.2	20.8	28.6	39.0
125°	10.4	10.4	5.2	5.2	5.2	5.2	2.6	5.2	18.2	26.0	33.8
127.5°	10.4	10.4	5.2	2.6	5.2	5.2	5.2	5.2	15.6	20.8	28.6
130°	10.4	10.4	5.2	2.6	5.2	5.2	5.2	5.2	13.0	15.6	23.4
132.5°	7.8	7.8	5.2	2.6	5.2	2.6	2.6	5.2	10.4	13.0	18.2
135°	5.2	5.2	5.2	2.6	5.2	2.6	2.6	2.6	5.2	7.8	13.0
137.5°	2.6	5.2	2.6	2.6	5.2	2.6	2.6	2.6	2.6	2.6	5.2
140°	2.6	2.6	2.6	2.6	5.2	2.6	2.6	2.6	2.6	2.6	2.6
142.5°	2.6	2.6	2.6	2.6	5.2	5.2	2.6	2.6	2.6	2.6	2.6
145°	2.6	2.6	2.6	2.6	7.8	5.2	2.6	2.6	2.6	2.6	2.6
147.5°	2.6	2.6	2.6	10.4	7.8	5.2	2.6	2.6	2.6	2.6	2.6
150°	13.0	13.0	13.0	10.4	7.8	5.2	7.8	2.6	2.6	2.6	2.6
152.5°	13.0	13.0	15.6	7.8	5.2	2.6	2.6	10.4	7.8	5.2	5.2
155°	10.4	7.8	7.8	2.6	2.6	2.6	2.6	2.6	7.8	10.4	10.4
157.5°	2.6	2.6	5.2	2.6	2.6	2.6	2.6	2.6	5.2	2.6	2.6
160°	0.0	0.0	0.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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°	892.8	892.8	892.8	892.8	892.8	892.8	892.8	892.8	892.8	892.8	892.8
2.5°	898.0	877.2	827.7	791.3	747.0	708.0	674.2	598.7	585.7	577.9	575.3
5°	898.0	853.8	757.5	640.3	549.2	528.4	518.0	518.0	512.8	515.4	518.0
7.5°	796.5	736.6	590.9	499.8	515.4	515.4	518.0	505.0	463.3	468.5	460.7
10°	697.6	622.1	445.1	406.1	445.1	447.7	507.6	531.0	538.8	541.4	541.4
12.5°	642.9	536.2	385.2	398.3	359.2	411.3	484.1	541.4	492.0	465.9	465.9
15°	739.2	635.1	432.1	348.8	354.0	411.3	367.0	512.8	531.0	536.2	536.2
17.5°	663.8	559.6	395.6	359.2	395.6	338.4	413.9	471.1	450.3	426.9	424.3
20°	796.5	661.1	442.5	351.4	348.8	400.9	367.0	385.2	481.5	484.1	481.5
22.5°	619.5	528.4	393.0	398.3	348.8	382.6	361.8	398.3	380.0	377.4	380.0
25°	859.0	684.6	452.9	343.6	364.4	338.4	364.4	335.8	403.5	408.7	411.3
27.5°	1051.6	817.3	481.5	372.2	317.6	346.2	325.4	335.8	312.4	325.4	330.6
30°	1252.0	952.7	588.3	411.3	335.8	296.7	301.9	299.3	338.4	335.8	330.6
32.5°	1317.1	970.9	562.2	429.5	333.2	299.3	275.9	294.1	322.8	346.2	348.8
35°	1382.2	983.9	541.4	411.3	325.4	281.1	270.7	301.9	325.4	328.0	335.8
37.5°	1457.7	994.3	520.6	385.2	301.9	275.9	268.1	281.1	333.2	328.0	320.2
40°	1527.9	999.5	494.6	361.8	275.9	270.7	249.9	281.1	294.1	304.5	309.8
42.5°	1652.9	1030.8	473.7	341.0	257.7	257.7	239.5	262.9	301.9	307.1	304.5
45°	1744.0	1020.4	445.1	322.8	239.5	229.1	234.3	286.3	304.5	335.8	330.6
47.5°	1874.1	1046.4	411.3	294.1	223.9	210.8	221.3	278.5	312.4	335.8	341.0
50°	2001.7	1041.2	382.6	270.7	213.4	200.4	244.7	270.7	307.1	346.2	346.2
52.5°	2168.3	1049.0	369.6	249.9	200.4	200.4	252.5	273.3	315.0	341.0	341.0
55°	2316.6	1020.4	338.4	242.1	197.8	192.6	255.1	283.7	317.6	341.0	343.6
57.5°	2426.0	963.1	315.0	234.3	195.2	197.8	255.1	307.1	296.7	341.0	348.8
60°	2545.7	900.6	294.1	234.3	195.2	205.6	262.9	325.4	325.4	356.6	356.6
62.5°	2709.7	861.6	283.7	236.9	190.0	213.4	286.3	354.0	328.0	377.4	380.0
65°	2847.6	809.5	275.9	247.3	192.6	223.9	299.3	377.4	343.6	400.9	398.3
67.5°	2850.2	731.4	265.5	257.7	195.2	231.7	299.3	393.0	361.8	421.7	413.9
70°	2725.3	653.3	249.9	257.7	203.0	239.5	299.3	403.5	364.4	455.5	447.7
72.5°	2457.2	533.6	226.5	247.3	216.0	249.9	315.0	400.9	364.4	492.0	484.1
75°	2090.2	426.9	195.2	226.5	216.0	262.9	325.4	398.3	351.4	468.5	452.9
77.5°	1590.4	348.8	164.0	197.8	205.6	268.1	325.4	393.0	341.0	437.3	426.9
80°	819.9	244.7	132.8	169.2	192.6	262.9	322.8	372.2	304.5	387.8	382.6
82.5°	450.3	179.6	106.7	124.9	161.4	247.3	312.4	335.8	268.1	317.6	304.5
85°	291.5	130.1	85.9	101.5	135.4	205.6	262.9	265.5	190.0	229.1	216.0
87.5°	218.6	75.5	54.7	62.5	93.7	114.5	166.6	171.8	119.7	140.6	132.8
90°	229.1	75.5	57.3	65.1	83.3	85.9	122.3	130.1	93.7	106.7	106.7
92.5°	244.7	75.5	59.9	67.7	75.5	67.7	96.3	106.7	78.1	85.9	83.3
95°	249.9	72.9	65.1	70.3	67.7	54.7	78.1	85.9	65.1	65.1	65.1
97.5°	182.2	52.1	65.1	70.3	62.5	44.3	59.9	67.7	41.6	33.8	33.8
100°	49.5	26.0	62.5	67.7	54.7	36.4	52.1	52.1	26.0	18.2	18.2
102.5°	20.8	20.8	54.7	59.9	41.6	23.4	36.4	36.4	18.2	7.8	7.8
105°	20.8	15.6	39.0	44.3	28.6	13.0	18.2	20.8	13.0	7.8	7.8
107.5°	20.8	15.6	18.2	23.4	13.0	10.4	10.4	10.4	7.8	7.8	7.8
110°	23.4	15.6	10.4	13.0	10.4	7.8	7.8	7.8	7.8	10.4	13.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	26.0	18.2	10.4	13.0	10.4	7.8	7.8	7.8	10.4	23.4	23.4
115°	23.4	15.6	10.4	10.4	7.8	7.8	5.2	5.2	10.4	28.6	28.6
117.5°	26.0	18.2	10.4	10.4	7.8	5.2	5.2	5.2	13.0	33.8	33.8
120°	31.2	20.8	10.4	7.8	5.2	5.2	5.2	5.2	15.6	36.4	36.4
122.5°	33.8	23.4	10.4	7.8	5.2	2.6	5.2	7.8	18.2	36.4	36.4
125°	28.6	20.8	10.4	7.8	5.2	2.6	5.2	7.8	18.2	33.8	36.4
127.5°	26.0	18.2	10.4	5.2	5.2	2.6	2.6	7.8	15.6	26.0	31.2
130°	20.8	15.6	7.8	5.2	5.2	2.6	2.6	5.2	15.6	23.4	28.6
132.5°	18.2	13.0	7.8	5.2	5.2	2.6	2.6	5.2	15.6	20.8	20.8
135°	13.0	10.4	5.2	5.2	5.2	2.6	5.2	2.6	10.4	18.2	18.2
137.5°	7.8	5.2	5.2	5.2	5.2	2.6	2.6	2.6	7.8	10.4	10.4
140°	2.6	2.6	5.2	5.2	5.2	2.6	2.6	2.6	5.2	5.2	5.2
142.5°	2.6	2.6	5.2	5.2	5.2	2.6	2.6	2.6	5.2	5.2	5.2
145°	2.6	2.6	2.6	5.2	5.2	2.6	2.6	2.6	2.6	2.6	5.2
147.5°	2.6	2.6	2.6	5.2	2.6	2.6	2.6	2.6	2.6	2.6	5.2
150°	2.6	2.6	2.6	5.2	5.2	2.6	2.6	5.2	5.2	5.2	5.2
152.5°	2.6	2.6	5.2	5.2	2.6	2.6	2.6	5.2	5.2	5.2	5.2
155°	7.8	7.8	5.2	5.2	2.6	2.6	0.0	2.6	5.2	5.2	5.2
157.5°	2.6	2.6	5.2	2.6	2.6	2.6	0.0	2.6	2.6	2.6	2.6
160°	2.6	2.6	2.6	2.6	2.6	2.6	0.0	2.6	2.6	2.6	2.6
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)