

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: P561224

Luminaire Tested: **SDL-PA1-90-727-U-T3-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-90-727-U-T3-A
Description: Springdale
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND CLEAR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8006.2 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium
BUG Rating: B2 - U3 - G3

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



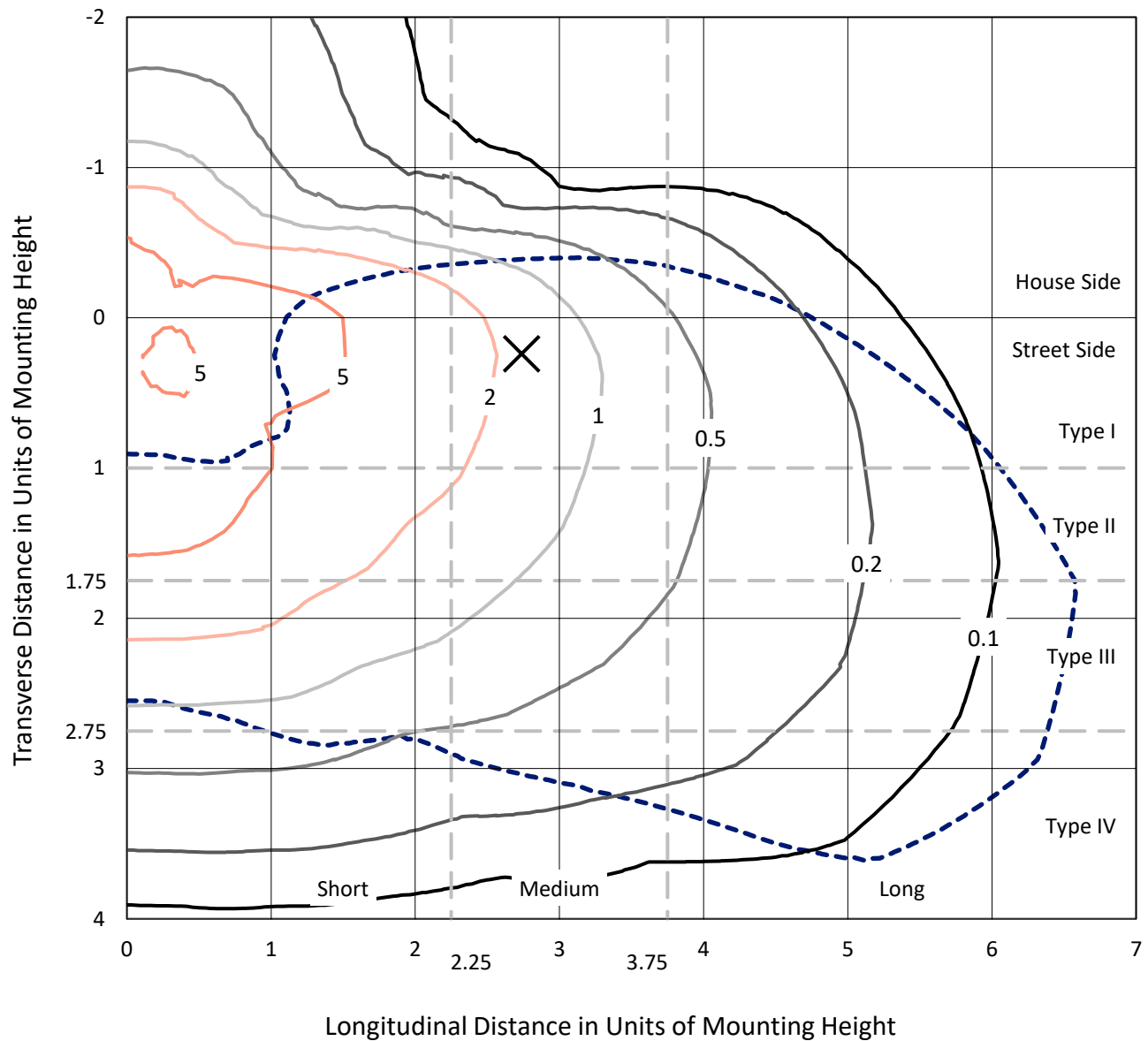
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



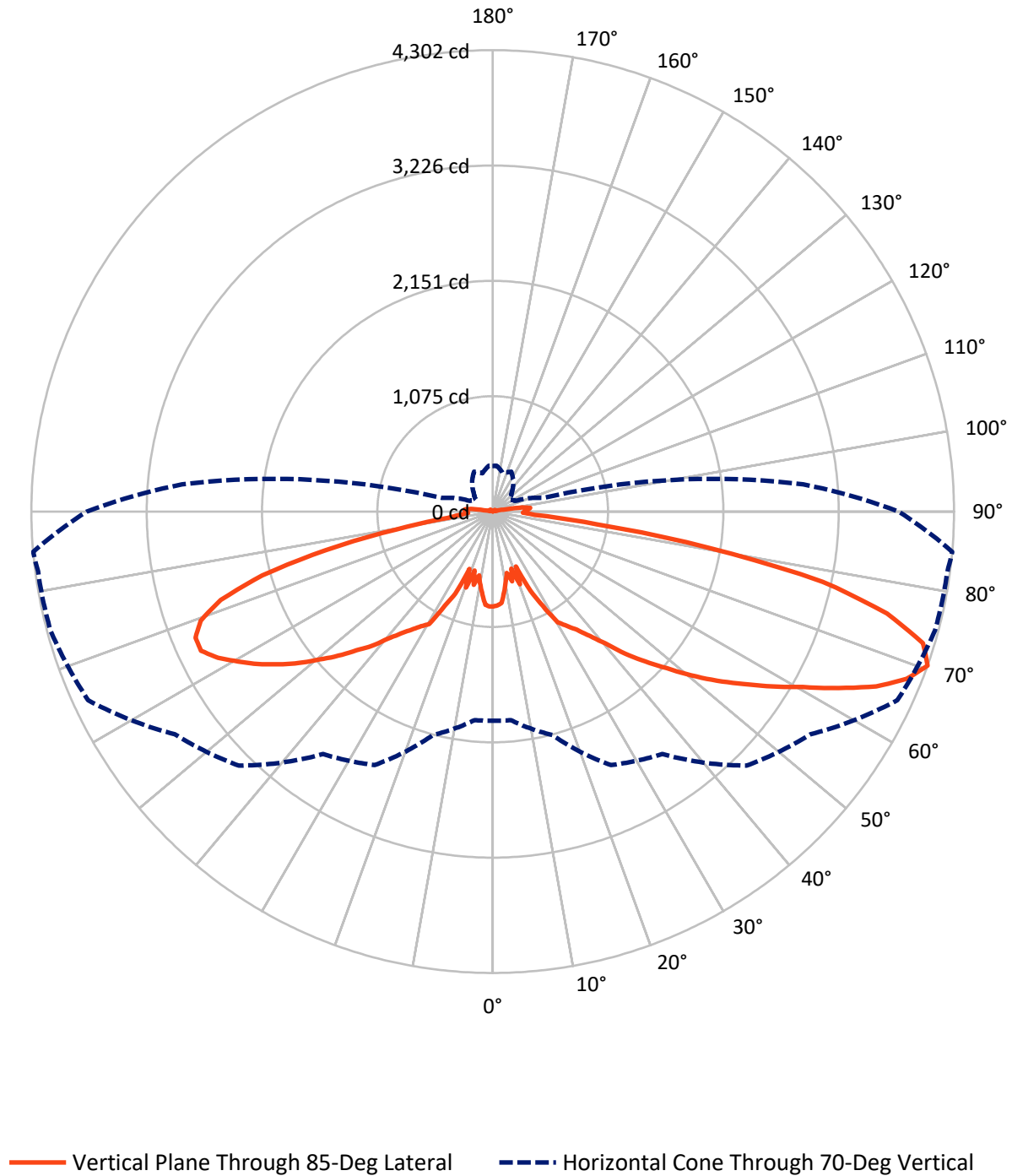
Based on 10 foot mounting height. Maximum calculated value = 9 fc

Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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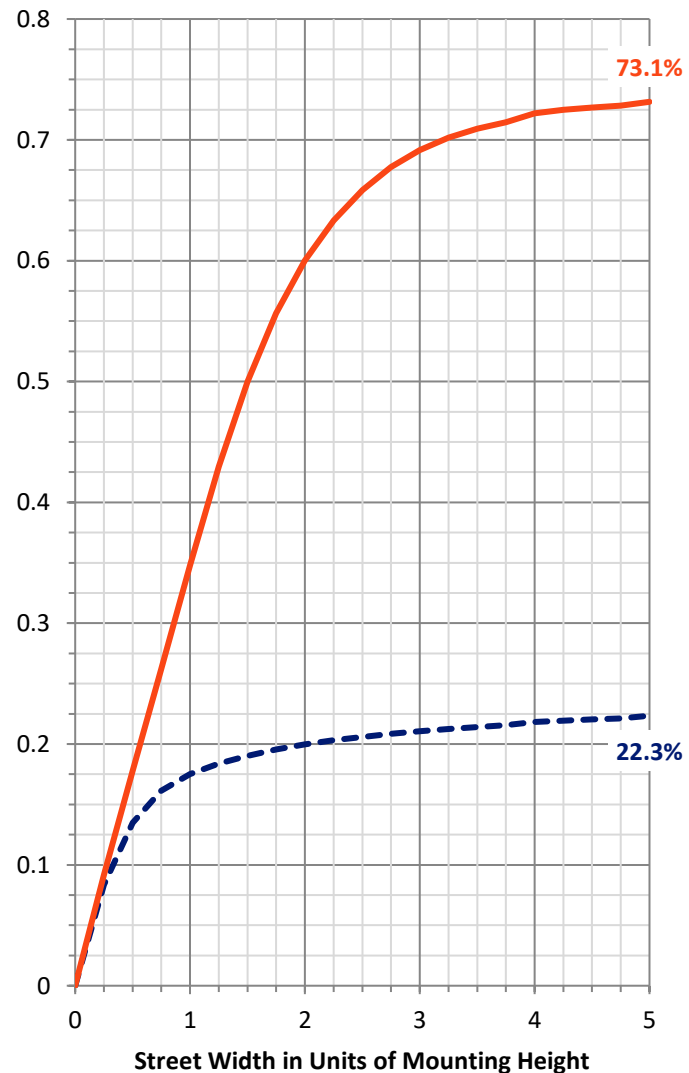
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1882.3	121.2	2003.6
	% Fixture	23.5	1.5	25.0
Street Side	Lumens	5900.2	102.4	6002.6
	% Fixture	73.7	1.3	75.0
Total	Lumens	7782.5	223.6	8006.2
	% Fixture	97.2	2.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	0.9
10°-20°	176.6	2.2
20°-30°	321.8	4.0
30°-40°	608.3	7.6
40°-50°	1016.6	12.7
50°-60°	1586.6	19.8
60°-70°	1967.6	24.6
70°-80°	1607.5	20.1
80°-90°	425.5	5.3
90°-100°	161.5	2.0
100°-110°	34.4	0.4
110°-120°	11.1	0.1
120°-130°	8.6	0.1
130°-140°	4.1	0.1
140°-150°	2.0	0.0
150°-160°	1.8	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	7782.5	97.2
0°-180°	8006.2	100.0



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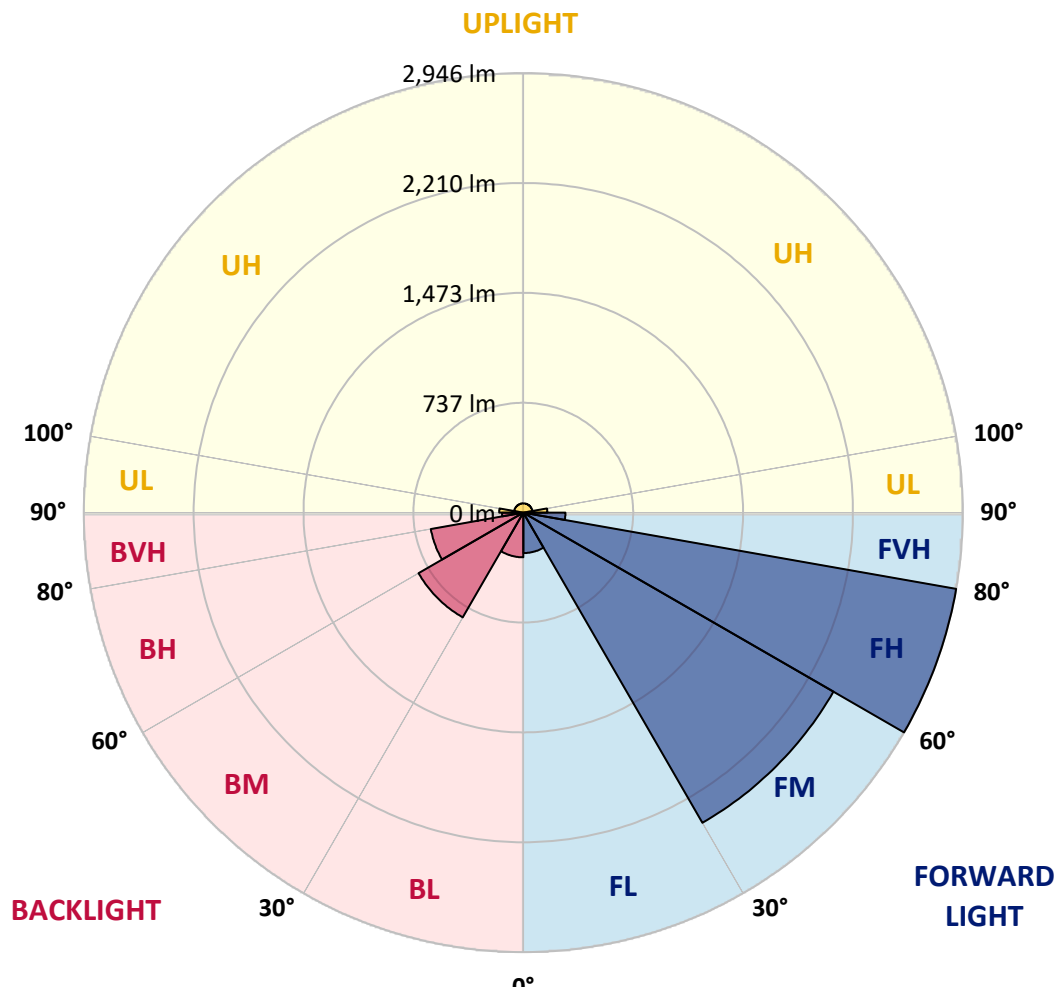
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	271.2	3.4			
FM	(30°-60°)	2400.7	30.0			
FH	(60°-80°)	2946.1	36.8			G2/5000
FVH	(80°-90°)	282.3	3.5			G3/500
BL	(0°-30°)	299.4	3.7	B1/500		
BM	(30°-60°)	810.8	10.1	B1/1000		
BH	(60°-80°)	628.9	7.9	B2/1000		G2/1000
BVH	(80°-90°)	143.2	1.8			G2/225
UL	(90°-100°)	161.5	2.0		U3/500	
UH	(100°-180°)	62.1	0.8		U3/500	

BUG Rating: B2-U3-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82.5°	85°
0°	884.6	884.6	884.6	884.6	884.6	884.6	884.6	884.6	884.6	884.6	884.6
2.5°	732.5	803.9	791.5	813.2	825.6	844.2	856.6	862.8	869.0	875.3	875.3
5°	679.7	682.8	685.9	689.0	695.2	704.5	713.9	813.2	844.2	856.6	856.6
7.5°	620.7	617.6	630.1	645.6	667.3	679.7	689.0	692.1	726.3	754.2	760.4
10°	617.6	620.7	620.7	627.0	589.7	586.6	543.2	546.3	592.8	664.2	667.3
12.5°	536.9	552.5	586.6	611.4	574.2	515.2	505.9	530.7	496.6	583.5	586.6
15°	599.0	595.9	595.9	571.1	484.2	509.0	453.1	471.8	577.3	658.0	673.5
17.5°	521.4	515.2	577.3	558.7	502.8	425.2	509.0	502.8	521.4	568.0	558.7
20°	654.9	648.7	636.3	484.2	509.0	533.8	518.3	484.2	611.4	682.8	723.2
22.5°	611.4	617.6	648.7	614.5	524.5	549.4	490.4	595.9	577.3	549.4	555.6
25°	834.9	828.7	797.7	602.1	627.0	512.1	599.0	530.7	732.5	813.2	819.4
27.5°	769.7	760.4	738.7	757.3	636.3	670.4	583.5	695.2	810.1	952.8	996.3
30°	1021.1	1011.8	987.0	763.5	757.3	664.2	707.7	853.5	1092.5	1201.1	1198.0
32.5°	1316.0	1247.7	1095.6	977.7	810.1	862.8	810.1	1005.6	1163.9	1269.4	1269.4
35°	1496.0	1483.6	1402.9	1136.0	943.5	940.4	931.1	1108.0	1284.9	1359.4	1353.2
37.5°	1648.1	1669.8	1610.8	1316.0	1064.6	1089.4	1042.9	1247.7	1433.9	1477.4	1471.2
40°	1859.1	1852.9	1821.9	1471.2	1213.6	1210.5	1176.3	1415.3	1598.4	1629.5	1613.9
42.5°	2172.6	2138.5	2045.4	1679.1	1371.9	1371.9	1309.8	1573.6	1800.2	1803.3	1812.6
45°	2557.5	2542.0	2377.5	2001.9	1576.7	1573.6	1471.2	1741.2	2005.0	2020.5	1992.6
47.5°	2824.4	2777.8	2697.1	2296.8	1893.3	1821.9	1666.7	1905.7	2250.2	2237.8	2181.9
50°	3088.2	3051.0	2976.5	2619.6	2222.3	2079.5	1849.8	2076.4	2486.1	2452.0	2399.2
52.5°	3314.8	3265.1	3184.4	2883.4	2510.9	2399.2	2060.9	2231.6	2725.1	2669.2	2619.6
55°	3445.1	3342.7	3348.9	3119.3	2728.2	2638.2	2296.8	2483.0	2957.9	2877.2	2836.8
57.5°	3283.8	3277.5	3380.0	3265.1	2926.8	2836.8	2548.2	2734.4	3200.0	3094.4	3075.8
60°	3122.4	3141.0	3286.9	3308.6	3082.0	3016.8	2765.4	3091.3	3435.8	3321.0	3321.0
62.5°	2898.9	2951.7	3156.5	3324.1	3097.5	3193.7	2992.0	3395.5	3693.4	3587.9	3622.1
65°	2644.4	2644.4	2880.3	3196.8	3047.9	3311.7	3243.4	3727.6	3920.0	3857.9	3929.3
67.5°	2296.8	2303.0	2548.2	2948.5	2957.9	3370.7	3445.1	3988.3	4155.9	4109.3	4162.1
70°	1949.1	1952.2	2157.1	2607.1	2759.2	3348.9	3619.0	4162.1	4270.7	4276.9	4301.8
72.5°	1458.8	1511.5	1704.0	2116.7	2414.7	3258.9	3709.0	4211.8	4267.6	4276.9	4196.3
75°	785.2	810.1	1024.2	1378.1	1794.0	2889.6	3681.0	4159.0	4118.7	4010.0	3799.0
77.5°	273.1	285.5	360.0	602.1	1018.0	2045.4	3414.1	3929.3	3799.0	3457.6	3147.2
80°	176.9	176.9	195.5	288.6	462.5	968.4	2650.6	3367.6	3060.3	2330.9	2042.3
82.5°	124.1	127.3	142.8	192.4	298.0	415.9	1378.1	1710.2	1685.3	1160.8	977.7
85°	90.0	93.1	99.3	111.7	204.8	257.6	536.9	822.5	760.4	415.9	391.1
87.5°	40.3	46.6	40.3	49.7	80.7	158.3	257.6	254.5	242.1	276.2	282.4
90°	31.0	31.0	24.8	27.9	55.9	142.8	239.0	229.7	245.2	301.1	298.0
92.5°	31.0	31.0	24.8	27.9	52.8	142.8	251.4	223.5	254.5	322.8	325.9
95°	31.0	34.1	24.8	24.8	43.5	145.9	266.9	239.0	270.0	350.7	350.7
97.5°	27.9	27.9	18.6	21.7	34.1	133.5	266.9	204.8	198.6	282.4	279.3
100°	21.7	24.8	12.4	18.6	24.8	80.7	198.6	127.3	55.9	65.2	99.3
102.5°	21.7	21.7	12.4	15.5	18.6	34.1	105.5	74.5	15.5	21.7	21.7
105°	21.7	24.8	12.4	12.4	12.4	15.5	49.7	37.2	12.4	18.6	21.7
107.5°	24.8	24.8	9.3	9.3	9.3	9.3	18.6	15.5	12.4	21.7	24.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82.5°	85°
112.5°	21.7	21.7	9.3	9.3	6.2	6.2	6.2	9.3	12.4	18.6	21.7
115°	15.5	15.5	6.2	9.3	6.2	6.2	6.2	9.3	9.3	15.5	18.6
117.5°	15.5	12.4	6.2	6.2	3.1	6.2	6.2	9.3	12.4	21.7	21.7
120°	15.5	15.5	6.2	3.1	3.1	3.1	3.1	6.2	15.5	24.8	27.9
122.5°	15.5	15.5	6.2	3.1	3.1	3.1	3.1	6.2	15.5	24.8	27.9
125°	18.6	15.5	9.3	3.1	3.1	3.1	3.1	3.1	12.4	21.7	24.8
127.5°	15.5	15.5	9.3	3.1	3.1	3.1	3.1	3.1	9.3	18.6	21.7
130°	15.5	15.5	9.3	3.1	3.1	3.1	3.1	3.1	9.3	15.5	15.5
132.5°	12.4	12.4	9.3	3.1	3.1	3.1	3.1	3.1	6.2	12.4	12.4
135°	12.4	12.4	6.2	3.1	3.1	3.1	3.1	3.1	3.1	9.3	9.3
137.5°	6.2	6.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
140°	0.0	3.1	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
142.5°	0.0	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
145°	0.0	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
147.5°	3.1	3.1	3.1	6.2	6.2	3.1	3.1	3.1	3.1	3.1	3.1
150°	9.3	9.3	9.3	6.2	6.2	3.1	6.2	3.1	3.1	3.1	3.1
152.5°	9.3	9.3	12.4	6.2	3.1	3.1	3.1	6.2	3.1	3.1	3.1
155°	6.2	6.2	6.2	3.1	3.1	3.1	3.1	3.1	6.2	6.2	9.3
157.5°	3.1	3.1	3.1	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1
160°	0.0	0.0	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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°	884.6	884.6	884.6	884.6	884.6	884.6	884.6	884.6	884.6	884.6	884.6
2.5°	878.4	884.6	887.7	897.0	897.0	897.0	875.3	822.5	822.5	825.6	828.7
5°	865.9	872.1	884.6	841.1	797.7	794.6	810.1	819.4	822.5	825.6	819.4
7.5°	766.6	779.0	772.8	775.9	797.7	819.4	838.0	825.6	794.6	772.8	779.0
10°	682.8	695.2	627.0	633.2	658.0	720.1	822.5	856.6	878.4	887.7	887.7
12.5°	599.0	608.3	549.4	636.3	592.8	689.0	800.8	884.6	800.8	766.6	766.6
15°	685.9	704.5	633.2	564.9	577.3	698.3	614.5	844.2	869.0	875.3	881.5
17.5°	586.6	574.2	586.6	595.9	648.7	543.2	704.5	794.6	744.9	726.3	735.6
20°	738.7	751.1	685.9	586.6	592.8	692.1	627.0	710.8	847.3	850.4	856.6
22.5°	561.8	577.3	614.5	698.3	611.4	670.4	661.1	738.7	692.1	695.2	720.1
25°	825.6	838.0	772.8	623.9	667.3	605.2	667.3	658.0	775.9	782.1	782.1
27.5°	1011.8	983.9	844.2	704.5	586.6	639.4	602.1	627.0	599.0	682.8	695.2
30°	1204.2	1204.2	1095.6	785.2	620.7	543.2	549.4	595.9	664.2	676.6	676.6
32.5°	1263.2	1260.1	1120.4	850.4	611.4	561.8	505.9	561.8	679.7	738.7	744.9
35°	1347.0	1334.6	1163.9	828.7	589.7	512.1	478.0	564.9	651.8	661.1	654.9
37.5°	1452.5	1421.5	1216.7	788.3	540.0	481.1	459.4	509.0	583.5	583.5	583.5
40°	1582.9	1533.2	1235.3	732.5	487.3	440.7	419.0	471.8	521.4	493.5	484.2
42.5°	1759.8	1685.3	1250.8	692.1	440.7	406.6	378.7	428.3	453.1	437.6	431.4
45°	1924.3	1812.6	1275.6	648.7	403.5	375.6	350.7	394.2	412.8	397.3	394.2
47.5°	2119.9	1970.9	1278.7	608.3	375.6	350.7	332.1	369.3	381.8	381.8	378.7
50°	2321.6	2123.0	1303.6	574.2	347.6	325.9	322.8	350.7	360.0	353.8	350.7
52.5°	2551.3	2293.7	1312.9	530.7	313.5	298.0	313.5	332.1	360.0	363.1	363.1
55°	2796.5	2452.0	1306.7	471.8	288.6	282.4	304.2	344.5	369.3	350.7	347.6
57.5°	3035.5	2610.2	1309.8	406.6	263.8	276.2	307.3	360.0	378.7	356.9	347.6
60°	3249.6	2753.0	1266.3	347.6	245.2	260.7	319.7	375.6	369.3	375.6	366.2
62.5°	3513.4	2902.0	1142.2	310.4	229.7	254.5	319.7	384.9	360.0	384.9	384.9
65°	3730.7	3013.7	965.3	279.3	217.3	254.5	322.8	388.0	350.7	391.1	391.1
67.5°	3823.8	3010.6	698.3	254.5	201.7	248.3	322.8	400.4	360.0	403.5	400.4
70°	3786.6	2908.2	493.5	235.9	192.4	251.4	335.2	409.7	369.3	428.3	425.2
72.5°	3535.2	2666.1	356.9	220.4	180.0	239.0	344.5	422.1	378.7	465.6	465.6
75°	3113.0	2228.5	288.6	204.8	167.6	235.9	347.6	428.3	384.9	471.8	471.8
77.5°	2380.6	1601.5	242.1	189.3	155.2	229.7	344.5	437.6	381.8	471.8	471.8
80°	1427.7	912.5	201.7	170.7	158.3	226.6	350.7	437.6	381.8	465.6	465.6
82.5°	658.0	419.0	180.0	142.8	149.0	223.5	356.9	431.4	366.2	465.6	446.9
85°	366.2	294.9	155.2	121.0	133.5	211.1	338.3	388.0	329.0	384.9	378.7
87.5°	273.1	229.7	99.3	62.1	86.9	149.0	260.7	307.3	248.3	298.0	294.9
90°	291.8	242.1	90.0	62.1	93.1	136.6	245.2	273.1	229.7	276.2	273.1
92.5°	313.5	254.5	90.0	65.2	105.5	149.0	245.2	266.9	226.6	251.4	254.5
95°	329.0	263.8	86.9	71.4	111.7	161.4	239.0	245.2	208.0	217.3	226.6
97.5°	257.6	198.6	77.6	74.5	108.6	130.4	195.5	192.4	142.8	133.5	133.5
100°	80.7	55.9	68.3	77.6	65.2	62.1	114.8	136.6	83.8	55.9	52.8
102.5°	24.8	21.7	62.1	74.5	49.7	27.9	62.1	86.9	62.1	9.3	12.4
105°	24.8	24.8	40.3	62.1	34.1	12.4	24.8	46.6	37.2	9.3	9.3
107.5°	24.8	21.7	15.5	34.1	12.4	9.3	12.4	12.4	12.4	9.3	9.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	24.8	24.8	12.4	12.4	9.3	9.3	6.2	6.2	9.3	21.7	21.7
115°	21.7	21.7	12.4	9.3	6.2	9.3	6.2	6.2	9.3	24.8	24.8
117.5°	24.8	24.8	12.4	9.3	6.2	6.2	6.2	3.1	9.3	27.9	31.0
120°	31.0	27.9	15.5	6.2	6.2	6.2	6.2	6.2	12.4	24.8	27.9
122.5°	31.0	31.0	15.5	6.2	3.1	3.1	3.1	6.2	12.4	24.8	27.9
125°	27.9	27.9	15.5	6.2	3.1	3.1	3.1	3.1	12.4	21.7	21.7
127.5°	24.8	24.8	12.4	6.2	3.1	3.1	3.1	3.1	9.3	18.6	21.7
130°	18.6	18.6	9.3	6.2	3.1	3.1	3.1	3.1	9.3	15.5	18.6
132.5°	15.5	15.5	9.3	6.2	3.1	3.1	3.1	3.1	9.3	12.4	15.5
135°	9.3	9.3	6.2	3.1	3.1	3.1	3.1	3.1	6.2	9.3	12.4
137.5°	6.2	6.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	6.2	6.2
140°	3.1	3.1	3.1	3.1	3.1	3.1	0.0	3.1	3.1	3.1	3.1
142.5°	3.1	3.1	3.1	3.1	3.1	3.1	0.0	3.1	3.1	3.1	3.1
145°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
147.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
150°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	6.2	6.2	9.3	6.2
152.5°	3.1	3.1	3.1	6.2	3.1	0.0	0.0	6.2	6.2	9.3	9.3
155°	9.3	9.3	6.2	3.1	3.1	0.0	0.0	0.0	6.2	6.2	6.2
157.5°	3.1	3.1	3.1	3.1	3.1	0.0	0.0	0.0	3.1	3.1	3.1
160°	3.1	3.1	3.1	3.1	3.1	0.0	0.0	0.0	0.0	3.1	3.1
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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110°	24.8	24.8	9.3	9.3	6.2	6.2	9.3	9.3	12.4	21.7	24.8
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110°	24.8	24.8	12.4	12.4	9.3	9.3	9.3	6.2	6.2	15.5	15.5
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(END OF REPORT)