

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: P561228

Luminaire Tested: **SDL-PA1-90-727-U-T4W-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-11)
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-T4W-A
Description: Springdale
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND CLEAR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7888.3 lumens
Efficiency: N/A
Efficacy: 85.4 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

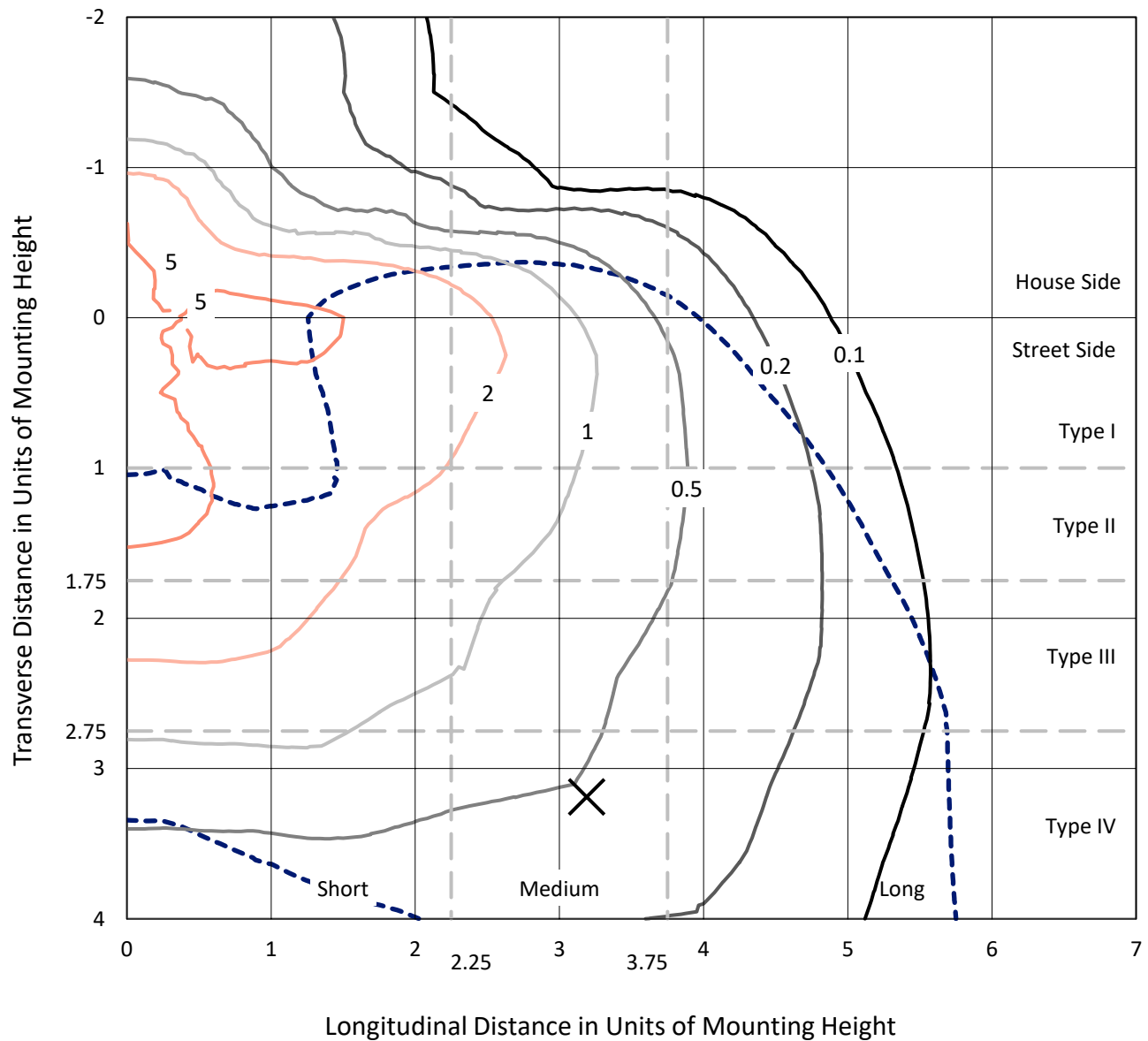


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

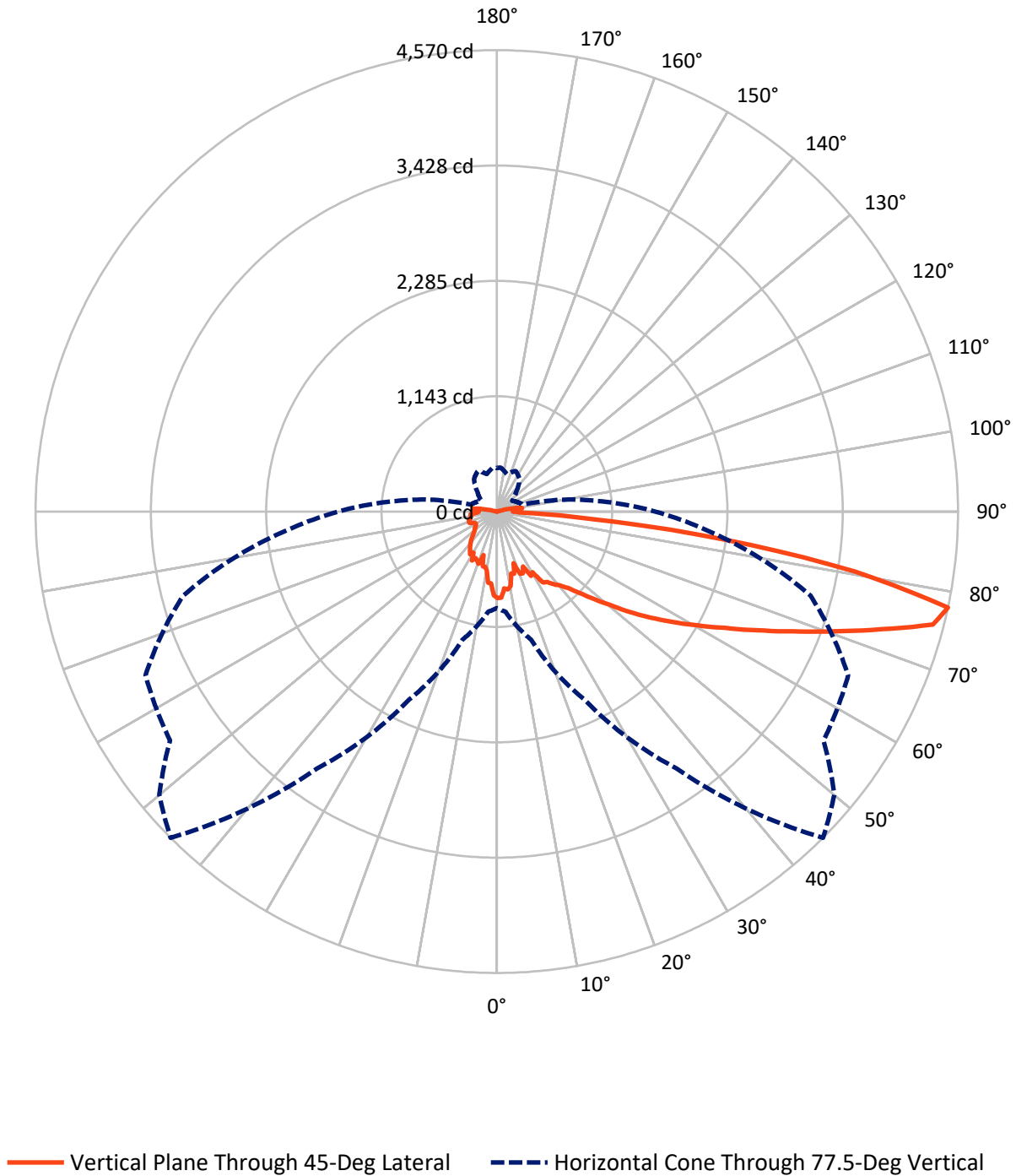


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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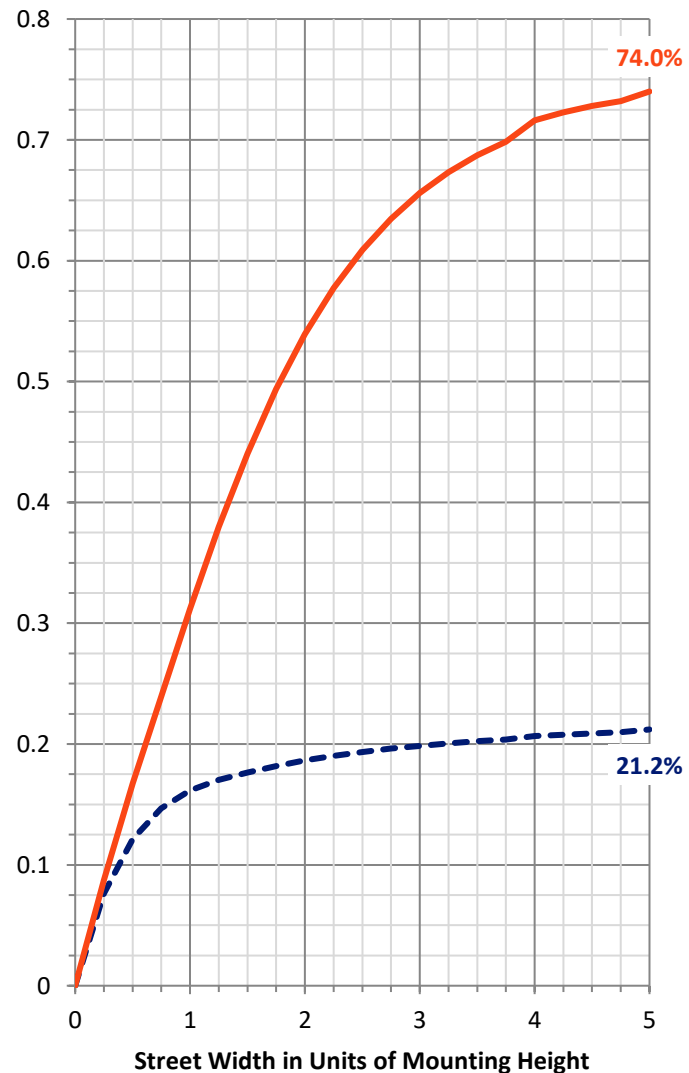
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1765.6	131.7	1897.3
	% Fixture	22.4	1.7	24.1
Street Side	Lumens	5884.5	106.5	5991.0
	% Fixture	74.6	1.4	75.9
Total	Lumens	7650.1	238.2	7888.3
	% Fixture	97.0	3.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	0.9
10°-20°	176.3	2.2
20°-30°	305.1	3.9
30°-40°	540.5	6.9
40°-50°	837.9	10.6
50°-60°	1349.0	17.1
60°-70°	1983.8	25.1
70°-80°	1910.0	24.2
80°-90°	476.3	6.0
90°-100°	177.6	2.3
100°-110°	39.3	0.5
110°-120°	8.5	0.1
120°-130°	7.0	0.1
130°-140°	3.1	0.0
140°-150°	1.3	0.0
150°-160°	1.4	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	7650.1	97.0
0°-180°	7888.3	100.0

Coefficient of Utilization



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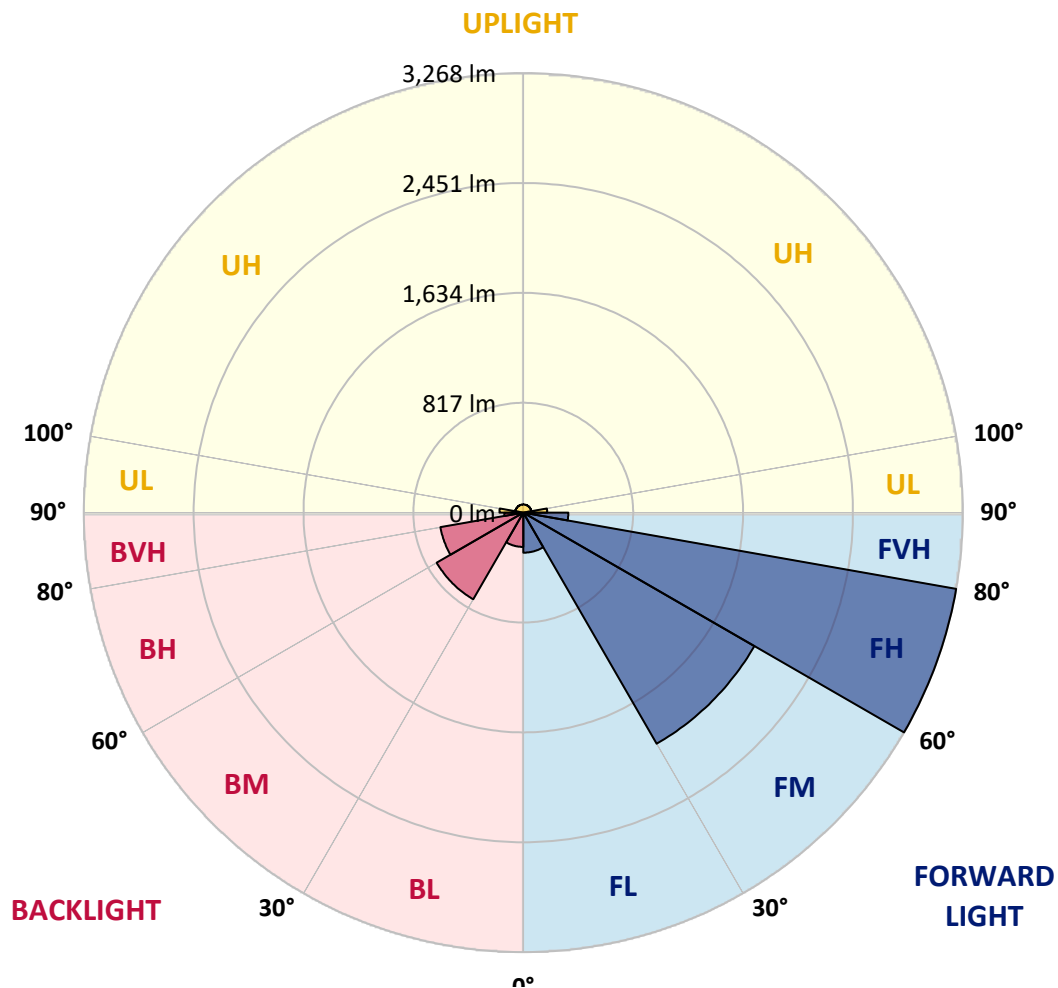
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	297.8	3.8			
FM	(30°-60°)	1984.0	25.2			
FH	(60°-80°)	3268.2	41.4			G2/5000
FVH	(80°-90°)	334.5	4.2			G3/500
BL	(0°-30°)	254.8	3.2	B1/500		
BM	(30°-60°)	743.4	9.4	B1/1000		
BH	(60°-80°)	625.6	7.9	B2/1000		G2/1000
BVH	(80°-90°)	141.8	1.8			G2/225
UL	(90°-100°)	177.6	2.3		U3/500	
UH	(100°-180°)	60.6	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°	50°	55°	65°	75°	85°
0°	856.4	856.4	856.4	856.4	856.4	856.4	856.4	856.4	856.4	856.4	856.4
2.5°	778.8	853.3	840.8	850.2	850.2	853.3	856.4	856.4	859.5	856.4	856.4
5°	794.3	791.2	785.0	778.8	772.6	763.3	763.3	763.3	837.7	844.0	837.7
7.5°	741.6	806.7	800.5	788.1	788.1	778.8	766.4	754.0	732.3	726.0	735.4
10°	837.7	834.6	825.3	806.7	738.5	750.9	673.3	608.1	583.3	598.8	639.2
12.5°	744.7	797.4	819.1	819.1	732.3	629.9	561.6	598.8	577.1	515.1	561.6
15°	878.1	871.9	847.1	806.7	642.3	639.2	601.9	527.5	536.8	583.3	626.8
17.5°	750.9	750.9	840.8	769.5	660.9	536.8	533.7	592.6	543.0	518.2	543.0
20°	906.0	902.9	875.0	639.2	667.1	657.8	543.0	605.0	518.2	595.7	651.6
22.5°	769.5	763.3	806.7	766.4	636.1	664.0	508.9	574.0	617.4	546.1	505.8
25°	906.0	912.2	899.8	682.6	722.9	601.9	614.3	654.7	567.8	691.9	719.8
27.5°	797.4	797.4	763.3	763.3	670.2	722.9	577.1	614.3	676.4	747.8	878.1
30°	977.4	980.5	958.8	735.4	741.6	695.0	670.2	713.6	812.9	971.2	1030.1
32.5°	1194.6	1194.6	1027.0	878.1	744.7	837.7	707.4	778.8	921.5	1002.2	1079.8
35°	1331.1	1315.6	1241.1	986.7	803.6	856.4	800.5	828.4	955.7	1073.6	1129.4
37.5°	1526.6	1520.4	1445.9	1082.9	862.6	912.2	831.5	862.6	1017.7	1126.3	1191.5
40°	1796.5	1765.5	1700.3	1250.4	933.9	961.9	868.8	906.0	1092.2	1194.6	1272.1
42.5°	2010.6	2016.8	1970.3	1449.0	1051.8	1033.2	933.9	961.9	1172.8	1300.1	1386.9
45°	2209.2	2203.0	2212.3	1687.9	1197.7	1148.0	1048.7	1051.8	1275.2	1430.4	1548.3
47.5°	2345.7	2342.6	2364.3	1911.3	1383.8	1293.9	1175.9	1163.5	1393.1	1653.8	1768.6
50°	2510.1	2500.8	2488.4	2150.2	1594.8	1452.1	1343.5	1300.1	1545.2	1905.1	2047.8
52.5°	2711.8	2690.1	2649.8	2336.4	1827.5	1653.8	1532.8	1473.8	1750.0	2187.4	2370.5
55°	2904.2	2873.2	2839.0	2544.3	2041.6	1855.5	1725.1	1691.0	2016.8	2479.1	2714.9
57.5°	3093.5	3077.9	3050.0	2820.4	2314.7	2066.4	1920.6	1914.4	2327.1	2761.5	3084.1
60°	3270.3	3245.5	3282.7	3118.3	2569.1	2289.8	2134.7	2181.2	2668.4	3043.8	3493.7
62.5°	3378.9	3369.6	3450.3	3391.3	2804.9	2538.1	2379.8	2460.5	2997.3	3320.0	3856.7
65°	3217.6	3242.4	3562.0	3562.0	3077.9	2832.8	2677.7	2727.3	3307.5	3599.2	4188.7
67.5°	2922.8	2956.9	3391.3	3658.2	3323.1	3164.8	3003.5	3031.4	3583.7	3825.7	4458.7
70°	2671.5	2696.3	3099.7	3664.4	3478.2	3549.6	3316.9	3292.0	3797.8	4015.0	4558.0
72.5°	2451.2	2485.3	2817.3	3627.1	3630.2	3987.0	3689.2	3540.3	3993.3	4086.3	4241.5
75°	1942.3	1926.8	2302.2	3189.6	3679.9	4464.9	4126.7	3816.4	4089.4	3841.2	3326.2
77.5°	955.7	996.0	1312.5	2054.0	3105.9	4570.4	4365.6	3952.9	3841.2	3217.6	2075.7
80°	282.4	291.7	366.1	735.4	1784.1	3599.2	3605.4	3270.3	2888.7	1880.3	937.0
82.5°	158.2	161.3	211.0	319.6	732.3	2280.5	2373.6	1964.0	1278.3	695.0	468.5
85°	83.8	86.9	108.6	167.5	372.3	909.1	965.0	750.9	617.4	453.0	344.4
87.5°	40.3	40.3	37.2	55.8	136.5	220.3	245.1	279.2	248.2	232.7	285.5
90°	34.1	34.1	27.9	31.0	74.5	158.2	192.4	214.1	195.5	214.1	313.4
92.5°	37.2	37.2	27.9	31.0	80.7	176.9	211.0	238.9	207.9	229.6	347.5
95°	34.1	37.2	24.8	27.9	80.7	217.2	254.4	260.6	214.1	251.3	372.3
97.5°	27.9	27.9	18.6	21.7	71.4	254.4	279.2	269.9	189.3	192.4	297.9
100°	21.7	21.7	12.4	18.6	49.6	204.8	238.9	226.5	124.1	31.0	74.5
102.5°	18.6	18.6	9.3	15.5	21.7	99.3	127.2	124.1	74.5	18.6	15.5
105°	18.6	18.6	9.3	12.4	12.4	27.9	43.4	55.8	31.0	9.3	15.5
107.5°	18.6	18.6	9.3	6.2	6.2	12.4	15.5	15.5	15.5	9.3	18.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	18.6	18.6	6.2	6.2	3.1	6.2	6.2	6.2	6.2	9.3	18.6
115°	15.5	15.5	3.1	6.2	3.1	3.1	6.2	3.1	6.2	6.2	15.5
117.5°	15.5	12.4	3.1	3.1	3.1	3.1	3.1	3.1	6.2	9.3	18.6
120°	15.5	15.5	6.2	3.1	3.1	3.1	3.1	3.1	6.2	12.4	21.7
122.5°	15.5	15.5	6.2	3.1	0.0	3.1	3.1	3.1	6.2	12.4	24.8
125°	18.6	15.5	6.2	3.1	0.0	0.0	3.1	3.1	3.1	12.4	21.7
127.5°	15.5	12.4	6.2	3.1	0.0	0.0	3.1	3.1	3.1	9.3	18.6
130°	15.5	12.4	6.2	0.0	0.0	0.0	3.1	3.1	3.1	9.3	15.5
132.5°	12.4	9.3	6.2	0.0	0.0	0.0	3.1	3.1	3.1	6.2	12.4
135°	9.3	9.3	3.1	0.0	3.1	0.0	3.1	3.1	3.1	3.1	9.3
137.5°	6.2	6.2	3.1	0.0	0.0	0.0	3.1	3.1	3.1	3.1	3.1
140°	3.1	0.0	0.0	0.0	0.0	0.0	3.1	3.1	3.1	3.1	3.1
142.5°	0.0	0.0	0.0	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1
145°	0.0	0.0	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1
147.5°	3.1	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
150°	9.3	9.3	9.3	6.2	3.1	3.1	3.1	6.2	3.1	3.1	3.1
152.5°	9.3	9.3	9.3	6.2	0.0	0.0	3.1	3.1	6.2	3.1	3.1
155°	6.2	6.2	6.2	0.0	0.0	0.0	3.1	3.1	3.1	6.2	6.2
157.5°	3.1	3.1	3.1	0.0	0.0	0.0	3.1	3.1	3.1	3.1	3.1
160°	0.0	0.0	0.0	0.0	0.0	0.0	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°	856.4	856.4	856.4	856.4	856.4	856.4	856.4	856.4	856.4	856.4	856.4
2.5°	853.3	850.2	847.1	844.0	837.7	831.5	816.0	750.9	750.9	754.0	754.0
5°	837.7	834.6	825.3	766.4	732.3	713.6	719.8	719.8	719.8	722.9	729.1
7.5°	732.3	729.1	685.7	682.6	695.0	710.5	719.8	704.3	673.3	673.3	673.3
10°	639.2	636.1	558.5	543.0	558.5	595.7	691.9	710.5	722.9	726.0	732.3
12.5°	558.5	549.2	480.9	530.6	496.4	558.5	645.4	716.7	651.6	639.2	639.2
15°	620.6	617.4	536.8	465.4	468.5	558.5	512.0	673.3	710.5	716.7	719.8
17.5°	543.0	536.8	493.3	490.2	518.2	449.9	567.8	642.3	611.2	620.6	620.6
20°	648.5	645.4	564.7	468.5	462.3	549.2	502.6	583.3	695.0	716.7	719.8
22.5°	502.6	502.6	518.2	549.2	499.5	524.4	536.8	617.4	595.7	608.1	645.4
25°	713.6	707.4	626.8	493.3	536.8	505.8	561.6	586.4	688.8	713.6	719.8
27.5°	865.7	850.2	673.3	555.4	484.0	543.0	539.9	567.8	583.3	679.5	691.9
30°	1020.8	1005.3	865.7	623.7	502.6	468.5	515.1	608.1	701.2	716.7	729.1
32.5°	1076.7	1064.2	884.3	660.9	505.8	499.5	512.0	608.1	769.5	831.5	844.0
35°	1135.6	1120.1	902.9	645.4	493.3	465.4	484.0	626.8	766.4	806.7	816.0
37.5°	1207.0	1179.0	924.6	614.3	459.2	440.6	462.3	570.9	729.1	769.5	775.7
40°	1297.0	1269.0	952.5	580.2	425.1	409.6	422.0	530.6	639.2	673.3	688.8
42.5°	1433.5	1380.7	965.0	552.3	394.1	378.5	390.9	477.8	561.6	583.3	592.6
45°	1610.3	1517.3	983.6	515.1	366.1	344.4	363.0	437.5	477.8	477.8	477.8
47.5°	1827.5	1678.6	992.9	484.0	332.0	313.4	332.0	397.2	418.9	406.5	403.4
50°	2094.4	1883.4	1039.4	446.8	304.1	288.6	319.6	350.6	359.9	366.1	366.1
52.5°	2407.7	2119.2	1067.4	409.6	285.5	276.1	307.2	328.9	332.0	338.2	338.2
55°	2749.0	2376.7	1082.9	375.4	273.0	260.6	294.8	316.5	316.5	322.7	322.7
57.5°	3102.8	2674.6	1123.2	350.6	260.6	248.2	282.4	319.6	307.2	319.6	322.7
60°	3475.1	2950.7	1089.1	325.8	242.0	238.9	285.5	341.3	338.2	353.7	356.8
62.5°	3825.7	3171.0	937.0	304.1	229.6	242.0	319.6	384.7	375.4	400.3	400.3
65°	4024.3	3245.5	688.8	291.7	220.3	260.6	353.7	428.2	397.2	409.6	403.4
67.5°	4067.7	3171.0	496.4	276.1	217.2	291.7	378.5	437.5	394.1	406.5	406.5
70°	3965.3	2997.3	400.3	263.7	214.1	294.8	384.7	437.5	397.2	425.1	418.9
72.5°	3503.0	2550.5	341.3	251.3	214.1	288.6	394.1	440.6	406.5	453.0	443.7
75°	2640.5	1908.2	301.0	238.9	201.7	279.2	400.3	443.7	394.1	443.7	437.5
77.5°	1570.0	1089.1	266.8	223.4	186.2	269.9	394.1	443.7	384.7	437.5	431.3
80°	664.0	512.0	226.5	195.5	170.7	257.5	387.8	440.6	369.2	425.1	415.8
82.5°	418.9	347.5	192.4	161.3	167.5	254.4	390.9	434.4	363.0	428.2	397.2
85°	338.2	285.5	164.4	136.5	155.1	260.6	375.4	394.1	313.4	369.2	359.9
87.5°	285.5	238.9	74.5	59.0	114.8	201.7	285.5	294.8	226.5	288.6	276.1
90°	313.4	260.6	71.4	49.6	102.4	176.9	263.7	257.5	217.2	276.1	273.0
92.5°	341.3	276.1	68.3	52.7	114.8	192.4	288.6	260.6	229.6	279.2	276.1
95°	353.7	282.4	65.2	55.8	136.5	211.0	307.2	254.4	242.0	257.5	254.4
97.5°	266.8	204.8	62.1	59.0	142.7	238.9	288.6	214.1	158.2	158.2	155.1
100°	68.3	68.3	55.8	55.8	96.2	173.8	220.3	158.2	90.0	68.3	71.4
102.5°	18.6	21.7	49.6	52.7	52.7	77.6	124.1	102.4	59.0	9.3	9.3
105°	18.6	18.6	34.1	40.3	27.9	24.8	49.6	55.8	43.4	6.2	9.3
107.5°	18.6	18.6	15.5	21.7	9.3	12.4	12.4	15.5	15.5	6.2	6.2



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CANDELA DISTRIBUTION (continued):

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