

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: P560898

Luminaire Tested: **SDL-PA1-70-730-U-T4W-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P560898
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-PA1-70-730-U-T4W-A
Description: Springdale
(1) 70 CRI, 3000K, 930mA 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: 7140.2 lumens
Efficiency: N/A
Efficacy: 98.9 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): 72.2
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

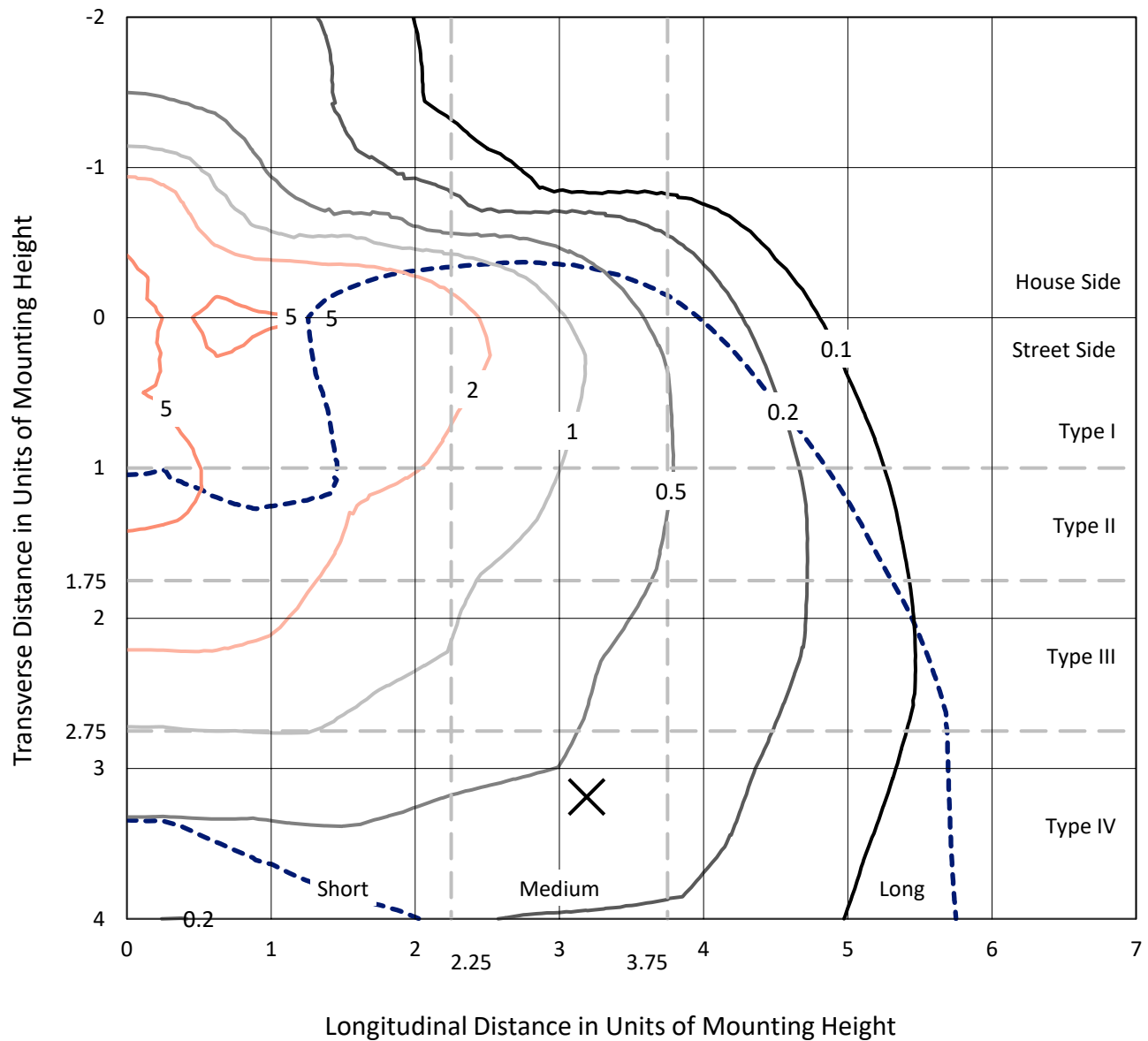


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

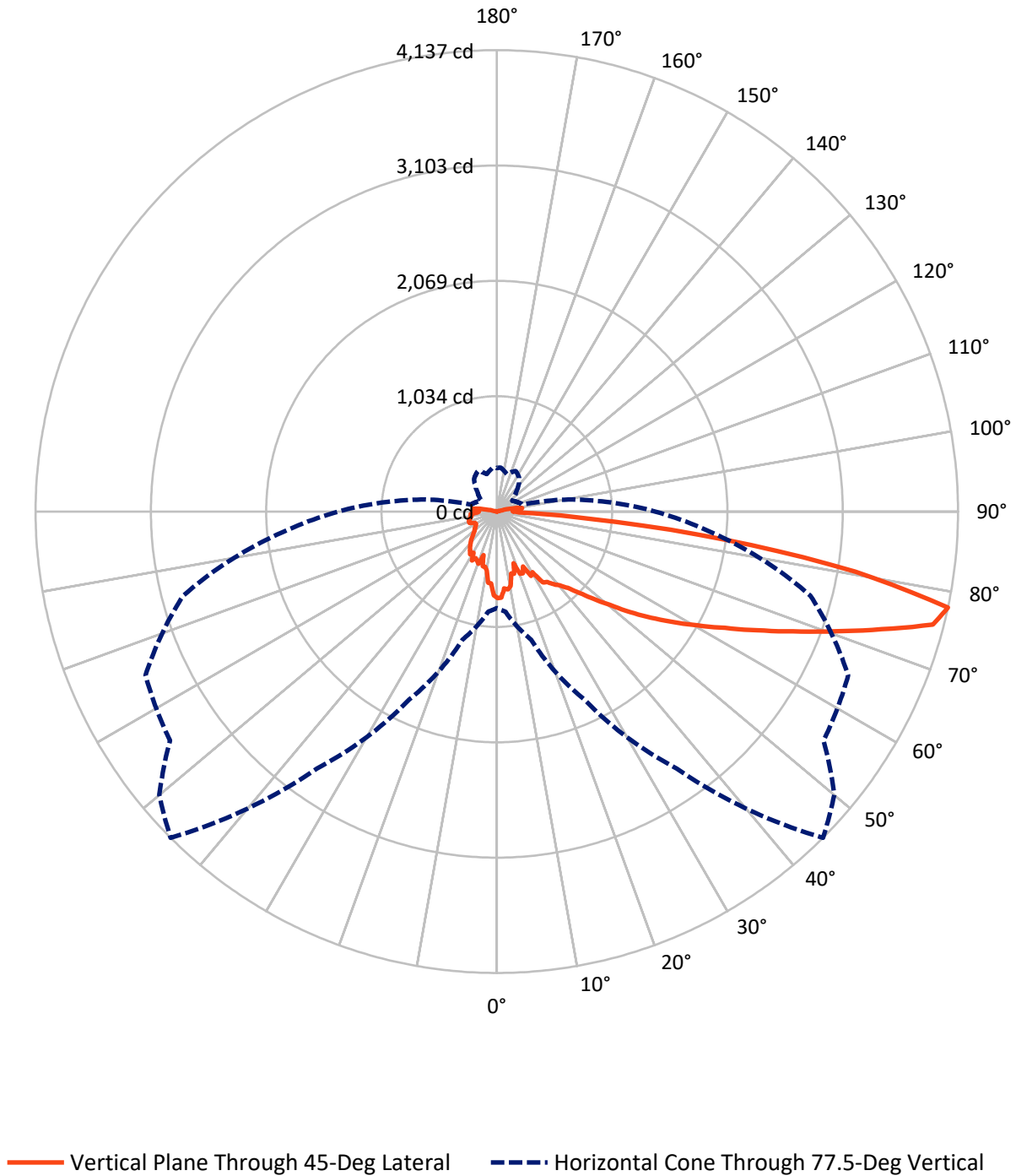


Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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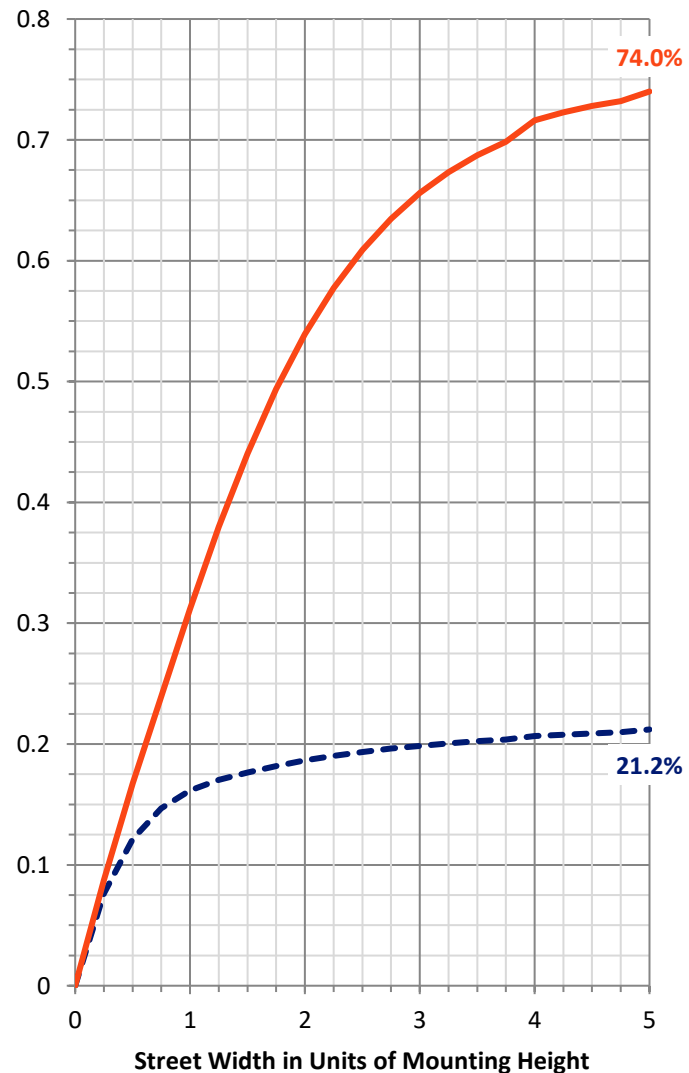
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1598.2	119.2	1717.4
	% Fixture	22.4	1.7	24.1
Street Side	Lumens	5326.5	96.4	5422.9
	% Fixture	74.6	1.4	75.9
Total	Lumens	6924.6	215.6	7140.2
	% Fixture	97.0	3.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	0.9
10°-20°	159.6	2.2
20°-30°	276.1	3.9
30°-40°	489.3	6.9
40°-50°	758.5	10.6
50°-60°	1221.0	17.1
60°-70°	1795.7	25.1
70°-80°	1728.9	24.2
80°-90°	431.1	6.0
90°-100°	160.8	2.3
100°-110°	35.6	0.5
110°-120°	7.7	0.1
120°-130°	6.4	0.1
130°-140°	2.8	0.0
140°-150°	1.2	0.0
150°-160°	1.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6924.6	97.0
0°-180°	7140.2	100.0



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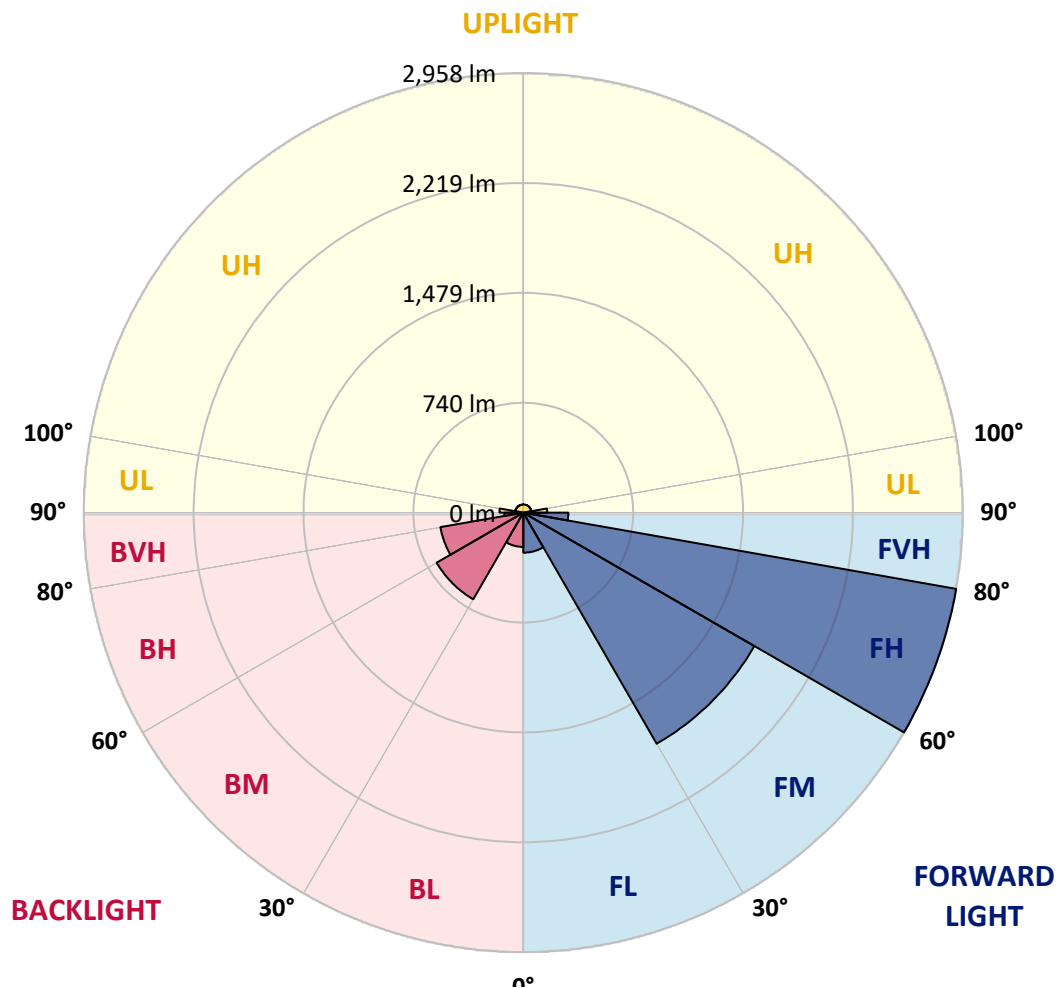
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	269.5	3.8			
FM	(30°-60°)	1795.9	25.2			
FH	(60°-80°)	2958.2	41.4			G2/5000
FVH	(80°-90°)	302.8	4.2			G3/500
BL	(0°-30°)	230.7	3.2	B1/500		
BM	(30°-60°)	672.9	9.4	B1/1000		
BH	(60°-80°)	566.3	7.9	B2/1000		G2/1000
BVH	(80°-90°)	128.3	1.8			G2/225
UL	(90°-100°)	160.8	2.3		U3/500	
UH	(100°-180°)	54.8	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°	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2
2.5°	704.9	772.3	761.1	769.5	769.5	772.3	775.2	775.2	778.0	775.2	775.2
5°	719.0	716.2	710.6	704.9	699.3	690.9	690.9	690.9	758.3	763.9	758.3
7.5°	671.2	730.2	724.6	713.4	713.4	704.9	693.7	682.5	662.8	657.2	665.6
10°	758.3	755.5	747.1	730.2	668.4	679.7	609.5	550.5	528.0	542.0	578.6
12.5°	674.0	721.8	741.5	741.5	662.8	570.1	508.3	542.0	522.4	466.2	508.3
15°	794.8	789.2	766.7	730.2	581.4	578.6	544.9	477.5	485.9	528.0	567.3
17.5°	679.7	679.7	761.1	696.5	598.2	485.9	483.1	536.4	491.5	469.0	491.5
20°	820.1	817.3	792.0	578.6	603.8	595.4	491.5	547.7	469.0	539.2	589.8
22.5°	696.5	690.9	730.2	693.7	575.7	601.0	460.6	519.6	558.9	494.3	457.8
25°	820.1	825.7	814.5	617.9	654.4	544.9	556.1	592.6	514.0	626.3	651.6
27.5°	721.8	721.8	690.9	690.9	606.6	654.4	522.4	556.1	612.3	676.9	794.8
30°	884.7	887.5	867.8	665.6	671.2	629.1	606.6	646.0	735.8	879.1	932.4
32.5°	1081.3	1081.3	929.6	794.8	674.0	758.3	640.3	704.9	834.1	907.2	977.4
35°	1204.9	1190.8	1123.4	893.1	727.4	775.2	724.6	749.9	865.0	971.8	1022.3
37.5°	1381.8	1376.2	1308.8	980.2	780.8	825.7	752.7	780.8	921.2	1019.5	1078.5
40°	1626.1	1598.1	1539.1	1131.8	845.4	870.6	786.4	820.1	988.6	1081.3	1151.5
42.5°	1819.9	1825.5	1783.4	1311.6	952.1	935.2	845.4	870.6	1061.6	1176.8	1255.4
45°	1999.7	1994.1	2002.5	1527.8	1084.1	1039.2	949.3	952.1	1154.3	1294.7	1401.5
47.5°	2123.2	2120.4	2140.1	1730.1	1252.6	1171.2	1064.4	1053.2	1261.0	1496.9	1600.9
50°	2272.1	2263.7	2252.4	1946.3	1443.6	1314.4	1216.1	1176.8	1398.6	1724.4	1853.6
52.5°	2454.7	2435.0	2398.5	2114.8	1654.2	1496.9	1387.4	1334.1	1584.0	1980.0	2145.7
55°	2628.8	2600.7	2569.8	2303.0	1848.0	1679.5	1561.5	1530.6	1825.5	2244.0	2457.5
57.5°	2800.1	2786.1	2760.8	2553.0	2095.2	1870.5	1738.5	1732.9	2106.4	2499.6	2791.7
60°	2960.2	2937.7	2971.4	2822.6	2325.5	2072.7	1932.3	1974.4	2415.3	2755.2	3162.4
62.5°	3058.5	3050.1	3123.1	3069.7	2538.9	2297.4	2154.1	2227.2	2713.0	3005.1	3491.0
65°	2912.4	2934.9	3224.2	3224.2	2786.1	2564.2	2423.8	2468.7	2993.9	3257.9	3791.5
67.5°	2645.6	2676.5	3069.7	3311.3	3007.9	2864.7	2718.7	2743.9	3243.9	3462.9	4035.9
70°	2418.1	2440.6	2805.7	3316.9	3148.4	3213.0	3002.3	2979.9	3437.6	3634.2	4125.7
72.5°	2218.7	2249.6	2550.1	3283.2	3286.0	3609.0	3339.3	3204.5	3614.6	3698.8	3839.3
75°	1758.1	1744.1	2083.9	2887.2	3330.9	4041.5	3735.3	3454.5	3701.6	3477.0	3010.7
77.5°	865.0	901.5	1188.0	1859.2	2811.3	4137.0	3951.6	3578.1	3477.0	2912.4	1878.9
80°	255.6	264.0	331.4	665.6	1614.9	3257.9	3263.5	2960.2	2614.7	1702.0	848.2
82.5°	143.2	146.0	191.0	289.3	662.8	2064.3	2148.5	1777.8	1157.1	629.1	424.1
85°	75.8	78.6	98.3	151.7	337.0	822.9	873.5	679.7	558.9	410.0	311.7
87.5°	36.5	36.5	33.7	50.6	123.6	199.4	221.9	252.8	224.7	210.6	258.4
90°	30.9	30.9	25.3	28.1	67.4	143.2	174.1	193.8	176.9	193.8	283.7
92.5°	33.7	33.7	25.3	28.1	73.0	160.1	191.0	216.3	188.2	207.8	314.6
95°	30.9	33.7	22.5	25.3	73.0	196.6	230.3	235.9	193.8	227.5	337.0
97.5°	25.3	25.3	16.9	19.7	64.6	230.3	252.8	244.3	171.3	174.1	269.6
100°	19.7	19.7	11.2	16.9	44.9	185.4	216.3	205.0	112.3	28.1	67.4
102.5°	16.9	16.9	8.4	14.0	19.7	89.9	115.1	112.3	67.4	16.9	14.0
105°	16.9	16.9	8.4	11.2	11.2	25.3	39.3	50.6	28.1	8.4	14.0
107.5°	16.9	16.9	8.4	5.6	5.6	11.2	14.0	14.0	14.0	8.4	16.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	16.9	16.9	5.6	5.6	2.8	5.6	5.6	5.6	5.6	8.4	16.9
115°	14.0	14.0	2.8	5.6	2.8	2.8	5.6	2.8	5.6	5.6	14.0
117.5°	14.0	11.2	2.8	2.8	2.8	2.8	2.8	2.8	5.6	8.4	16.9
120°	14.0	14.0	5.6	2.8	2.8	2.8	2.8	2.8	5.6	11.2	19.7
122.5°	14.0	14.0	5.6	2.8	0.0	2.8	2.8	2.8	5.6	11.2	22.5
125°	16.9	14.0	5.6	2.8	0.0	0.0	2.8	2.8	2.8	11.2	19.7
127.5°	14.0	11.2	5.6	2.8	0.0	0.0	2.8	2.8	2.8	8.4	16.9
130°	14.0	11.2	5.6	0.0	0.0	0.0	2.8	2.8	2.8	8.4	14.0
132.5°	11.2	8.4	5.6	0.0	0.0	0.0	2.8	2.8	2.8	5.6	11.2
135°	8.4	8.4	2.8	0.0	2.8	0.0	2.8	2.8	2.8	2.8	8.4
137.5°	5.6	5.6	2.8	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8
140°	2.8	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8
142.5°	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8
145°	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8	2.8
147.5°	2.8	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
150°	8.4	8.4	8.4	5.6	2.8	2.8	2.8	5.6	2.8	2.8	2.8
152.5°	8.4	8.4	8.4	5.6	0.0	0.0	2.8	2.8	5.6	2.8	2.8
155°	5.6	5.6	5.6	0.0	0.0	0.0	2.8	2.8	2.8	5.6	5.6
157.5°	2.8	2.8	2.8	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8
160°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8
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°	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2
2.5°	772.3	769.5	766.7	763.9	758.3	752.7	738.6	679.7	679.7	682.5	682.5
5°	758.3	755.5	747.1	693.7	662.8	646.0	651.6	651.6	651.6	654.4	660.0
7.5°	662.8	660.0	620.7	617.9	629.1	643.2	651.6	637.5	609.5	609.5	609.5
10°	578.6	575.7	505.5	491.5	505.5	539.2	626.3	643.2	654.4	657.2	662.8
12.5°	505.5	497.1	435.3	480.3	449.4	505.5	584.2	648.8	589.8	578.6	578.6
15°	561.7	558.9	485.9	421.3	424.1	505.5	463.4	609.5	643.2	648.8	651.6
17.5°	491.5	485.9	446.6	443.7	469.0	407.2	514.0	581.4	553.3	561.7	561.7
20°	587.0	584.2	511.2	424.1	418.5	497.1	455.0	528.0	629.1	648.8	651.6
22.5°	455.0	455.0	469.0	497.1	452.2	474.6	485.9	558.9	539.2	550.5	584.2
25°	646.0	640.3	567.3	446.6	485.9	457.8	508.3	530.8	623.5	646.0	651.6
27.5°	783.6	769.5	609.5	502.7	438.1	491.5	488.7	514.0	528.0	615.1	626.3
30°	924.0	910.0	783.6	564.5	455.0	424.1	466.2	550.5	634.7	648.8	660.0
32.5°	974.6	963.3	800.4	598.2	457.8	452.2	463.4	550.5	696.5	752.7	763.9
35°	1027.9	1013.9	817.3	584.2	446.6	421.3	438.1	567.3	693.7	730.2	738.6
37.5°	1092.5	1067.2	836.9	556.1	415.7	398.8	418.5	516.8	660.0	696.5	702.1
40°	1174.0	1148.7	862.2	525.2	384.8	370.7	382.0	480.3	578.6	609.5	623.5
42.5°	1297.5	1249.8	873.5	499.9	356.7	342.6	353.9	432.5	508.3	528.0	536.4
45°	1457.6	1373.4	890.3	466.2	331.4	311.7	328.6	396.0	432.5	432.5	432.5
47.5°	1654.2	1519.4	898.7	438.1	300.5	283.7	300.5	359.5	379.2	367.9	365.1
50°	1895.8	1704.8	940.9	404.4	275.2	261.2	289.3	317.4	325.8	331.4	331.4
52.5°	2179.4	1918.2	966.1	370.7	258.4	250.0	278.0	297.7	300.5	306.1	306.1
55°	2488.4	2151.3	980.2	339.8	247.2	235.9	266.8	286.5	286.5	292.1	292.1
57.5°	2808.5	2421.0	1016.7	317.4	235.9	224.7	255.6	289.3	278.0	289.3	292.1
60°	3145.6	2670.9	985.8	294.9	219.1	216.3	258.4	308.9	306.1	320.2	323.0
62.5°	3462.9	2870.3	848.2	275.2	207.8	219.1	289.3	348.3	339.8	362.3	362.3
65°	3642.7	2937.7	623.5	264.0	199.4	235.9	320.2	387.6	359.5	370.7	365.1
67.5°	3682.0	2870.3	449.4	250.0	196.6	264.0	342.6	396.0	356.7	367.9	367.9
70°	3589.3	2713.0	362.3	238.7	193.8	266.8	348.3	396.0	359.5	384.8	379.2
72.5°	3170.8	2308.6	308.9	227.5	193.8	261.2	356.7	398.8	367.9	410.0	401.6
75°	2390.1	1727.2	272.4	216.3	182.6	252.8	362.3	401.6	356.7	401.6	396.0
77.5°	1421.1	985.8	241.5	202.2	168.5	244.3	356.7	401.6	348.3	396.0	390.4
80°	601.0	463.4	205.0	176.9	154.5	233.1	351.1	398.8	334.2	384.8	376.3
82.5°	379.2	314.6	174.1	146.0	151.7	230.3	353.9	393.2	328.6	387.6	359.5
85°	306.1	258.4	148.9	123.6	140.4	235.9	339.8	356.7	283.7	334.2	325.8
87.5°	258.4	216.3	67.4	53.4	103.9	182.6	258.4	266.8	205.0	261.2	250.0
90°	283.7	235.9	64.6	44.9	92.7	160.1	238.7	233.1	196.6	250.0	247.2
92.5°	308.9	250.0	61.8	47.7	103.9	174.1	261.2	235.9	207.8	252.8	250.0
95°	320.2	255.6	59.0	50.6	123.6	191.0	278.0	230.3	219.1	233.1	230.3
97.5°	241.5	185.4	56.2	53.4	129.2	216.3	261.2	193.8	143.2	143.2	140.4
100°	61.8	61.8	50.6	50.6	87.1	157.3	199.4	143.2	81.4	61.8	64.6
102.5°	16.9	19.7	44.9	47.7	47.7	70.2	112.3	92.7	53.4	8.4	8.4
105°	16.9	16.9	30.9	36.5	25.3	22.5	44.9	50.6	39.3	5.6	8.4
107.5°	16.9	16.9	14.0	19.7	8.4	11.2	11.2	14.0	14.0	5.6	5.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	19.7	16.9	8.4	5.6	5.6	5.6	5.6	5.6	5.6	14.0	14.0
115°	16.9	14.0	8.4	5.6	5.6	5.6	5.6	2.8	5.6	16.9	16.9
117.5°	19.7	16.9	8.4	5.6	2.8	5.6	5.6	2.8	5.6	19.7	19.7
120°	22.5	19.7	8.4	5.6	2.8	2.8	2.8	2.8	8.4	19.7	19.7
122.5°	22.5	22.5	11.2	2.8	2.8	2.8	2.8	2.8	8.4	19.7	19.7
125°	22.5	19.7	8.4	2.8	2.8	2.8	0.0	2.8	8.4	19.7	22.5
127.5°	16.9	16.9	8.4	2.8	2.8	2.8	0.0	2.8	8.4	16.9	19.7
130°	14.0	14.0	5.6	2.8	2.8	2.8	0.0	2.8	8.4	16.9	16.9
132.5°	11.2	11.2	5.6	2.8	2.8	0.0	0.0	0.0	8.4	14.0	14.0
135°	8.4	8.4	2.8	2.8	2.8	0.0	0.0	0.0	5.6	11.2	11.2
137.5°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	2.8	5.6	5.6
140°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	2.8	2.8
142.5°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	2.8	2.8
145°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	2.8
147.5°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	2.8	2.8
150°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	2.8	5.6	2.8	5.6
152.5°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	2.8	5.6	5.6	5.6
155°	5.6	5.6	5.6	2.8	2.8	0.0	0.0	0.0	2.8	5.6	5.6
157.5°	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.8	2.8	2.8	2.8	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°	19.7	19.7	5.6	5.6	5.6	5.6	5.6	5.6	5.6	8.4	16.9
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110°	19.7	16.9	8.4	8.4	5.6	5.6	5.6	5.6	5.6	11.2	11.2
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(END OF REPORT)