

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: P560128

Luminaire Tested: **SDL-PA1-20-830-U-T4W-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P560128
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-PA1-20-830-U-T4W-A
Description: Springdale
(1) 80 CRI, 3000K, 260mA 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: 2020 lumens
Efficiency: N/A
Efficacy: 96.2 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: B1 - U2 - G1

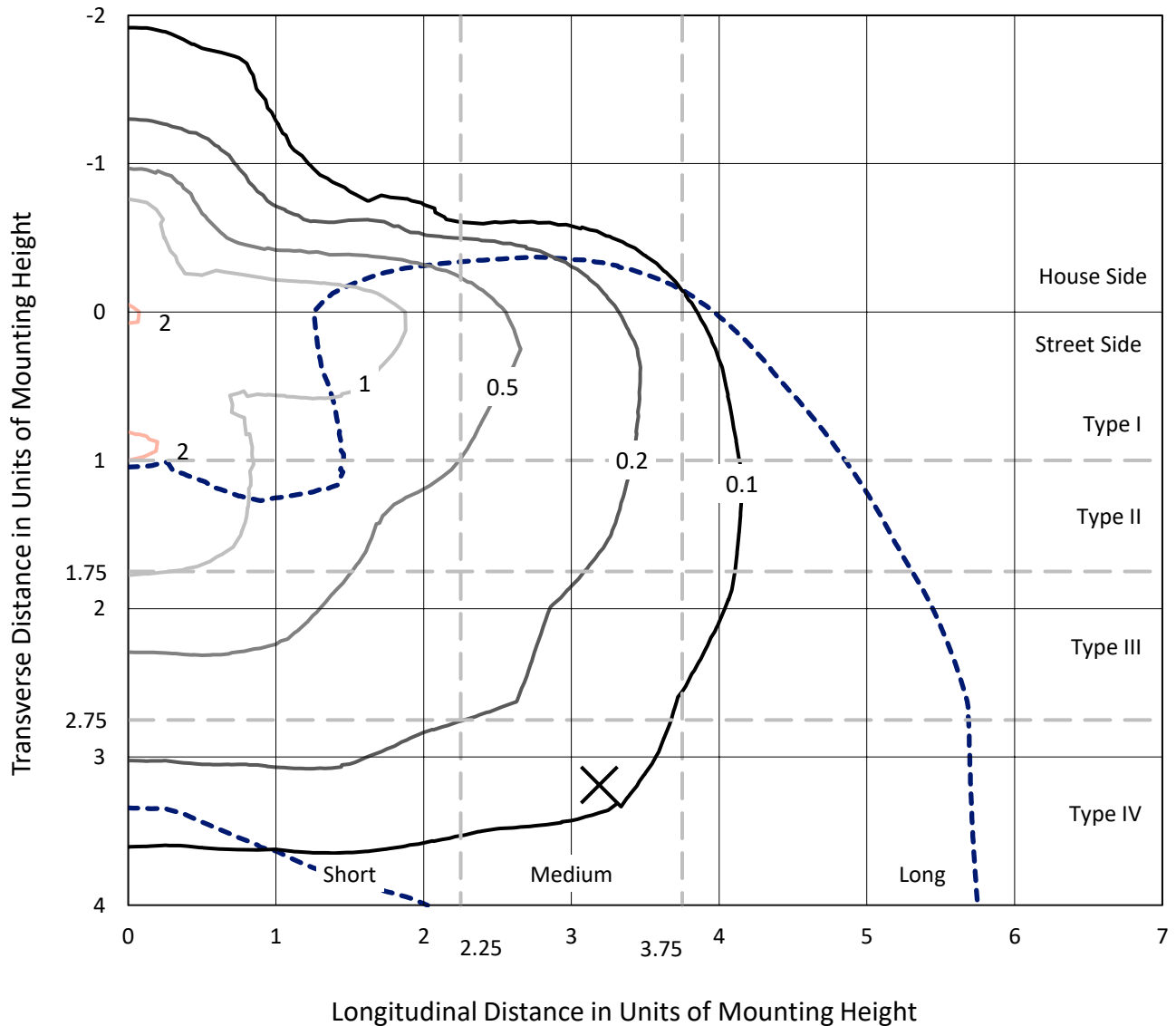
Input Watts (W): 21
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

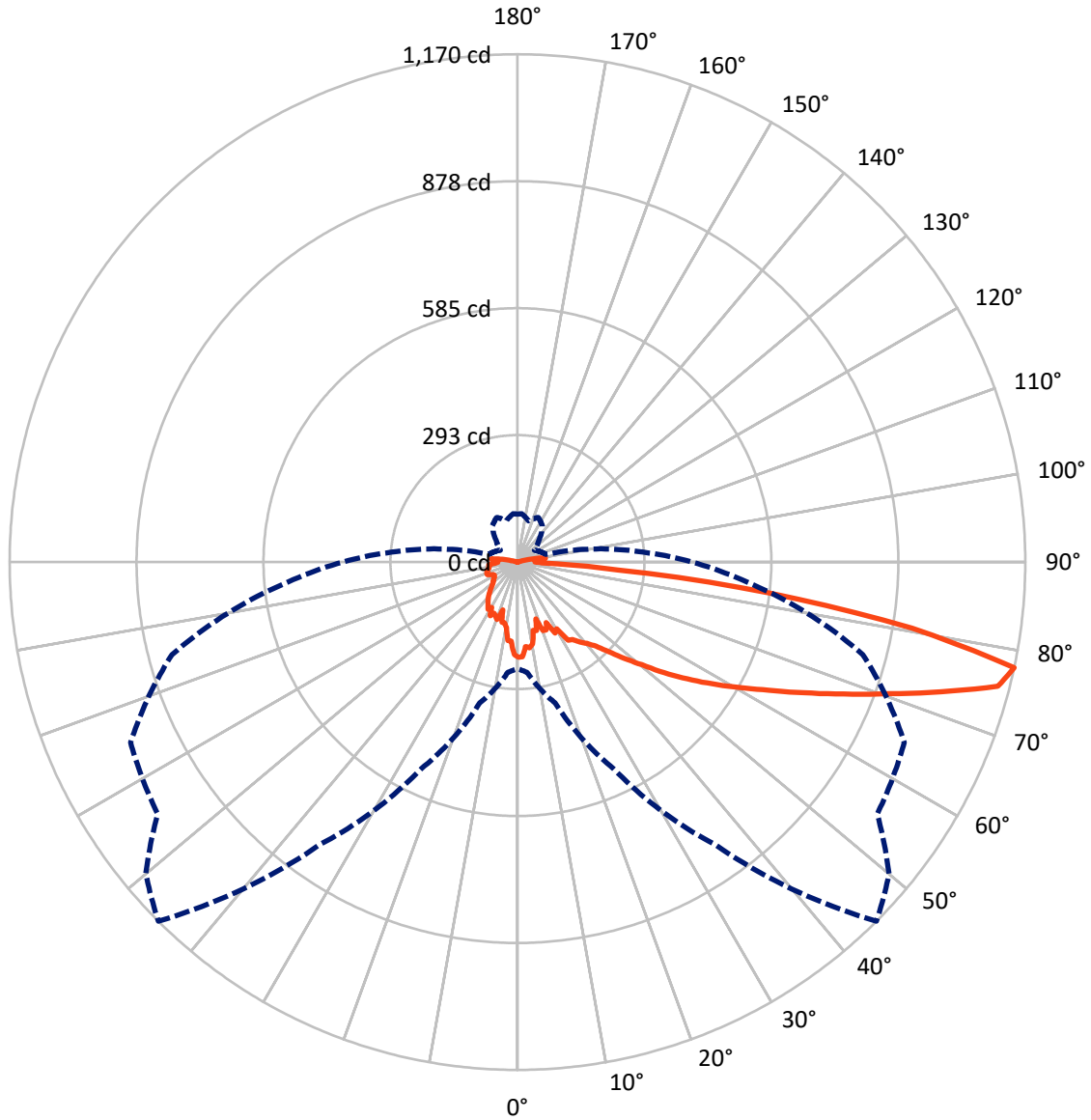
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 77.5-Deg Vertical

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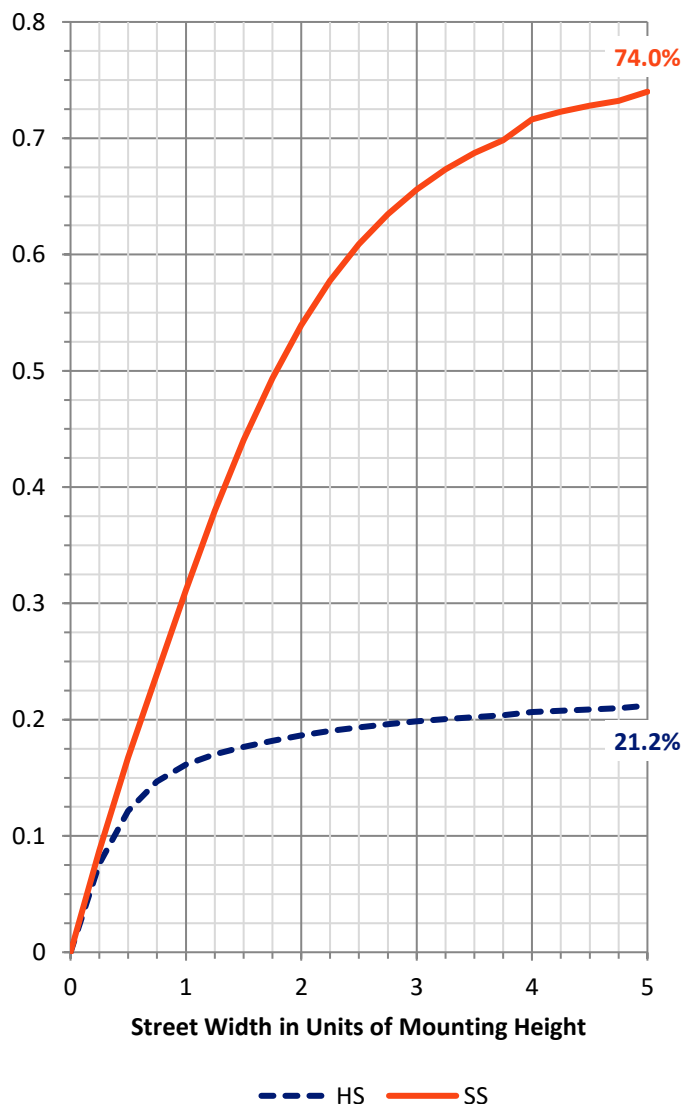
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	452.1	33.7	485.9
	% Fixture	22.4	1.7	24.1
Street Side	Lumens	1506.9	27.3	1534.2
	% Fixture	74.6	1.4	75.9
Total	Lumens	1959.0	61.1	2020.0
	% Fixture	97.0	3.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.2	0.9
10°-20°	45.2	2.2
20°-30°	78.1	3.9
30°-40°	138.4	6.9
40°-50°	214.6	10.6
50°-60°	345.4	17.1
60°-70°	508.0	25.1
70°-80°	489.1	24.2
80°-90°	122.0	6.0
90°-100°	45.5	2.3
100°-110°	10.1	0.5
110°-120°	2.2	0.1
120°-130°	1.8	0.1
130°-140°	0.8	0.0
140°-150°	0.3	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1959.0	97.0
0°-180°	2020.0	100.0

Coefficient of Utilization



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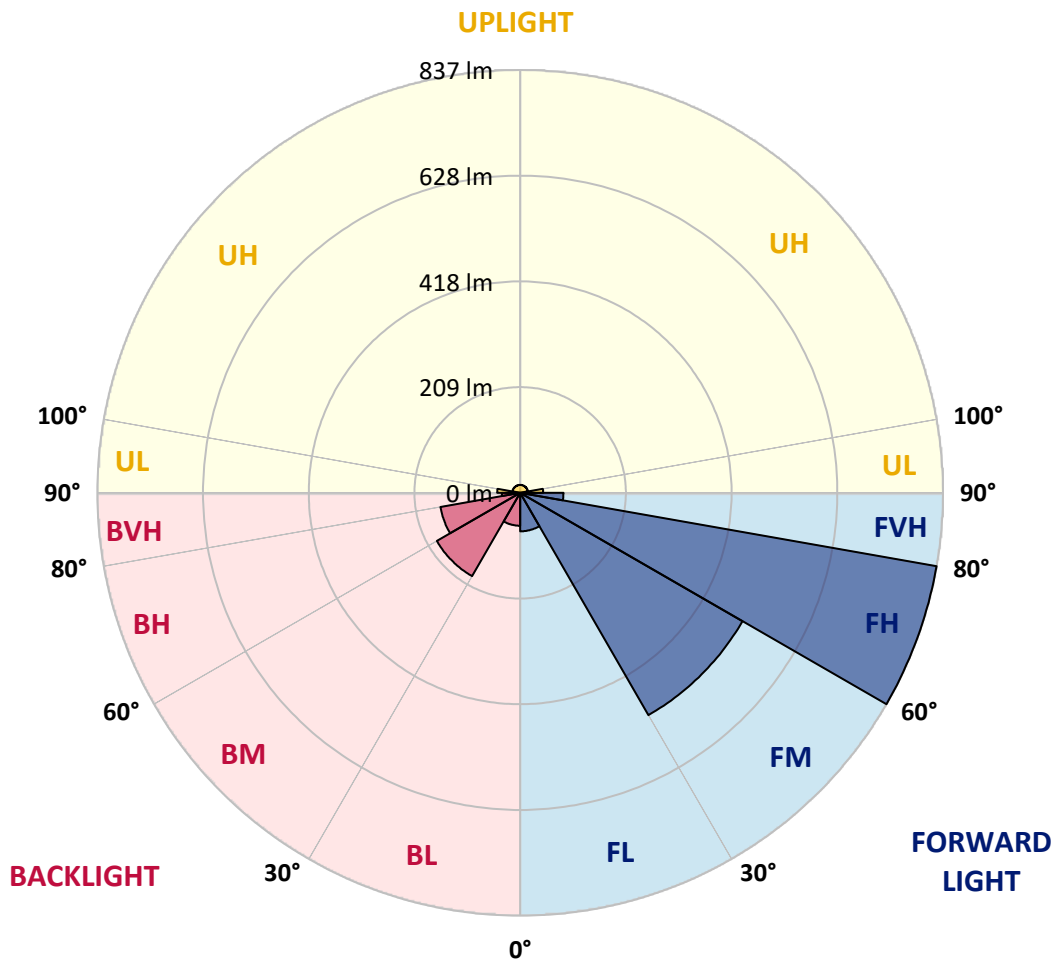
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	76.2	3.8			
FM	(30°-60°)	508.1	25.2			
FH	(60°-80°)	836.9	41.4			G1/1800
FVH	(80°-90°)	85.7	4.2			G1/100
BL	(0°-30°)	65.3	3.2	B0/110		
BM	(30°-60°)	190.4	9.4	B0/220		
BH	(60°-80°)	160.2	7.9	B1/500		G1/500
BVH	(80°-90°)	36.3	1.8			G1/100
UL	(90°-100°)	45.5	2.3		U2/50	
UH	(100°-180°)	15.6	0.8		U2/50	

BUG Rating: B1-U2-G1

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	219.3	219.3	219.3	219.3	219.3	219.3	219.3	219.3	219.3	219.3	219.3
2.5°	199.4	218.5	215.3	217.7	217.7	218.5	219.3	219.3	220.1	219.3	219.3
5°	203.4	202.6	201.0	199.4	197.8	195.5	195.5	195.5	214.5	216.1	214.5
7.5°	189.9	206.6	205.0	201.8	201.8	199.4	196.2	193.1	187.5	185.9	188.3
10°	214.5	213.7	211.3	206.6	189.1	192.3	172.4	155.7	149.4	153.3	163.7
12.5°	190.7	204.2	209.8	209.8	187.5	161.3	143.8	153.3	147.8	131.9	143.8
15°	224.9	223.3	216.9	206.6	164.5	163.7	154.1	135.1	137.5	149.4	160.5
17.5°	192.3	192.3	215.3	197.0	169.2	137.5	136.7	151.8	139.0	132.7	139.0
20°	232.0	231.2	224.1	163.7	170.8	168.4	139.0	154.9	132.7	152.6	166.9
22.5°	197.0	195.5	206.6	196.2	162.9	170.0	130.3	147.0	158.1	139.8	129.5
25°	232.0	233.6	230.4	174.8	185.1	154.1	157.3	167.6	145.4	177.2	184.3
27.5°	204.2	204.2	195.5	195.5	171.6	185.1	147.8	157.3	173.2	191.5	224.9
30°	250.3	251.1	245.5	188.3	189.9	178.0	171.6	182.7	208.2	248.7	263.8
32.5°	305.9	305.9	263.0	224.9	190.7	214.5	181.2	199.4	236.0	256.6	276.5
35°	340.9	336.9	317.8	252.7	205.8	219.3	205.0	212.1	244.7	274.9	289.2
37.5°	390.9	389.3	370.3	277.3	220.9	233.6	212.9	220.9	260.6	288.4	305.1
40°	460.0	452.1	435.4	320.2	239.2	246.3	222.5	232.0	279.7	305.9	325.8
42.5°	514.9	516.4	504.5	371.0	269.3	264.6	239.2	246.3	300.3	332.9	355.2
45°	565.7	564.1	566.5	432.2	306.7	294.0	268.6	269.3	326.6	366.3	396.5
47.5°	600.7	599.9	605.4	489.4	354.4	331.3	301.1	298.0	356.7	423.5	452.9
50°	642.8	640.4	637.2	550.6	408.4	371.8	344.0	332.9	395.7	487.8	524.4
52.5°	694.4	688.9	678.5	598.3	468.0	423.5	392.5	377.4	448.1	560.1	607.0
55°	743.7	735.7	727.0	651.5	522.8	475.1	441.8	433.0	516.4	634.8	695.2
57.5°	792.2	788.2	781.0	722.2	592.7	529.2	491.8	490.2	595.9	707.1	789.8
60°	837.4	831.1	840.6	798.5	657.9	586.4	546.6	558.6	683.3	779.4	894.6
62.5°	865.2	862.9	883.5	868.4	718.3	649.9	609.4	630.1	767.5	850.2	987.6
65°	823.9	830.3	912.1	912.1	788.2	725.4	685.7	698.4	847.0	921.7	1072.6
67.5°	748.5	757.2	868.4	936.8	850.9	810.4	769.1	776.3	917.7	979.7	1141.7
70°	684.1	690.5	793.7	938.3	890.7	908.9	849.4	843.0	972.5	1028.1	1167.2
72.5°	627.7	636.4	721.4	928.8	929.6	1021.0	944.7	906.6	1022.6	1046.4	1086.1
75°	497.4	493.4	589.5	816.8	942.3	1143.3	1056.7	977.3	1047.2	983.6	851.7
77.5°	244.7	255.0	336.1	526.0	795.3	1170.3	1117.9	1012.2	983.6	823.9	531.5
80°	72.3	74.7	93.8	188.3	456.9	921.7	923.2	837.4	739.7	481.5	239.9
82.5°	40.5	41.3	54.0	81.8	187.5	584.0	607.8	502.9	327.3	178.0	120.0
85°	21.5	22.2	27.8	42.9	95.3	232.8	247.1	192.3	158.1	116.0	88.2
87.5°	10.3	10.3	9.5	14.3	35.0	56.4	62.8	71.5	63.6	59.6	73.1
90°	8.7	8.7	7.2	7.9	19.1	40.5	49.3	54.8	50.1	54.8	80.2
92.5°	9.5	9.5	7.2	7.9	20.7	45.3	54.0	61.2	53.2	58.8	89.0
95°	8.7	9.5	6.4	7.2	20.7	55.6	65.2	66.7	54.8	64.4	95.3
97.5°	7.2	7.2	4.8	5.6	18.3	65.2	71.5	69.1	48.5	49.3	76.3
100°	5.6	5.6	3.2	4.8	12.7	52.4	61.2	58.0	31.8	7.9	19.1
102.5°	4.8	4.8	2.4	4.0	5.6	25.4	32.6	31.8	19.1	4.8	4.0
105°	4.8	4.8	2.4	3.2	3.2	7.2	11.1	14.3	7.9	2.4	4.0
107.5°	4.8	4.8	2.4	1.6	1.6	3.2	4.0	4.0	4.0	2.4	4.8
110°	5.6	5.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	4.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	4.8	4.8	1.6	1.6	0.8	1.6	1.6	1.6	1.6	2.4	4.8
115°	4.0	4.0	0.8	1.6	0.8	0.8	1.6	0.8	1.6	1.6	4.0
117.5°	4.0	3.2	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.4	4.8
120°	4.0	4.0	1.6	0.8	0.8	0.8	0.8	0.8	1.6	3.2	5.6
122.5°	4.0	4.0	1.6	0.8	0.0	0.8	0.8	0.8	1.6	3.2	6.4
125°	4.8	4.0	1.6	0.8	0.0	0.0	0.8	0.8	0.8	3.2	5.6
127.5°	4.0	3.2	1.6	0.8	0.0	0.0	0.8	0.8	0.8	2.4	4.8
130°	4.0	3.2	1.6	0.0	0.0	0.0	0.8	0.8	0.8	2.4	4.0
132.5°	3.2	2.4	1.6	0.0	0.0	0.0	0.8	0.8	0.8	1.6	3.2
135°	2.4	2.4	0.8	0.0	0.8	0.0	0.8	0.8	0.8	0.8	2.4
137.5°	1.6	1.6	0.8	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
140°	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
145°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
147.5°	0.8	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
150°	2.4	2.4	2.4	1.6	0.8	0.8	0.8	1.6	0.8	0.8	0.8
152.5°	2.4	2.4	2.4	1.6	0.0	0.0	0.8	0.8	1.6	0.8	0.8
155°	1.6	1.6	1.6	0.0	0.0	0.0	0.8	0.8	0.8	1.6	1.6
157.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
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°	219.3	219.3	219.3	219.3	219.3	219.3	219.3	219.3	219.3	219.3	219.3
2.5°	218.5	217.7	216.9	216.1	214.5	212.9	209.0	192.3	192.3	193.1	193.1
5°	214.5	213.7	211.3	196.2	187.5	182.7	184.3	184.3	184.3	185.1	186.7
7.5°	187.5	186.7	175.6	174.8	178.0	181.9	184.3	180.4	172.4	172.4	172.4
10°	163.7	162.9	143.0	139.0	143.0	152.6	177.2	181.9	185.1	185.9	187.5
12.5°	143.0	140.6	123.2	135.9	127.1	143.0	165.3	183.5	166.9	163.7	163.7
15°	158.9	158.1	137.5	119.2	120.0	143.0	131.1	172.4	181.9	183.5	184.3
17.5°	139.0	137.5	126.3	125.5	132.7	115.2	145.4	164.5	156.5	158.9	158.9
20°	166.1	165.3	144.6	120.0	118.4	140.6	128.7	149.4	178.0	183.5	184.3
22.5°	128.7	128.7	132.7	140.6	127.9	134.3	137.5	158.1	152.6	155.7	165.3
25°	182.7	181.2	160.5	126.3	137.5	129.5	143.8	150.2	176.4	182.7	184.3
27.5°	221.7	217.7	172.4	142.2	123.9	139.0	138.2	145.4	149.4	174.0	177.2
30°	261.4	257.4	221.7	159.7	128.7	120.0	131.9	155.7	179.6	183.5	186.7
32.5°	275.7	272.5	226.4	169.2	129.5	127.9	131.1	155.7	197.0	212.9	216.1
35°	290.8	286.8	231.2	165.3	126.3	119.2	123.9	160.5	196.2	206.6	209.0
37.5°	309.1	301.9	236.8	157.3	117.6	112.8	118.4	146.2	186.7	197.0	198.6
40°	332.1	325.0	243.9	148.6	108.9	104.9	108.1	135.9	163.7	172.4	176.4
42.5°	367.1	353.6	247.1	141.4	100.9	96.9	100.1	122.4	143.8	149.4	151.8
45°	412.4	388.5	251.9	131.9	93.8	88.2	93.0	112.0	122.4	122.4	122.4
47.5°	468.0	429.8	254.3	123.9	85.0	80.2	85.0	101.7	107.3	104.1	103.3
50°	536.3	482.3	266.2	114.4	77.9	73.9	81.8	89.8	92.2	93.8	93.8
52.5°	616.6	542.7	273.3	104.9	73.1	70.7	78.7	84.2	85.0	86.6	86.6
55°	704.0	608.6	277.3	96.1	69.9	66.7	75.5	81.0	81.0	82.6	82.6
57.5°	794.5	684.9	287.6	89.8	66.7	63.6	72.3	81.8	78.7	81.8	82.6
60°	889.9	755.6	278.9	83.4	62.0	61.2	73.1	87.4	86.6	90.6	91.4
62.5°	979.7	812.0	239.9	77.9	58.8	62.0	81.8	98.5	96.1	102.5	102.5
65°	1030.5	831.1	176.4	74.7	56.4	66.7	90.6	109.6	101.7	104.9	103.3
67.5°	1041.6	812.0	127.1	70.7	55.6	74.7	96.9	112.0	100.9	104.1	104.1
70°	1015.4	767.5	102.5	67.5	54.8	75.5	98.5	112.0	101.7	108.9	107.3
72.5°	897.0	653.1	87.4	64.4	54.8	73.9	100.9	112.8	104.1	116.0	113.6
75°	676.1	488.6	77.1	61.2	51.6	71.5	102.5	113.6	100.9	113.6	112.0
77.5°	402.0	278.9	68.3	57.2	47.7	69.1	100.9	113.6	98.5	112.0	110.4
80°	170.0	131.1	58.0	50.1	43.7	65.9	99.3	112.8	94.5	108.9	106.5
82.5°	107.3	89.0	49.3	41.3	42.9	65.2	100.1	111.2	93.0	109.6	101.7
85°	86.6	73.1	42.1	35.0	39.7	66.7	96.1	100.9	80.2	94.5	92.2
87.5°	73.1	61.2	19.1	15.1	29.4	51.6	73.1	75.5	58.0	73.9	70.7
90°	80.2	66.7	18.3	12.7	26.2	45.3	67.5	65.9	55.6	70.7	69.9
92.5°	87.4	70.7	17.5	13.5	29.4	49.3	73.9	66.7	58.8	71.5	70.7
95°	90.6	72.3	16.7	14.3	35.0	54.0	78.7	65.2	62.0	65.9	65.2
97.5°	68.3	52.4	15.9	15.1	36.5	61.2	73.9	54.8	40.5	40.5	39.7
100°	17.5	17.5	14.3	14.3	24.6	44.5	56.4	40.5	23.0	17.5	18.3
102.5°	4.8	5.6	12.7	13.5	13.5	19.9	31.8	26.2	15.1	2.4	2.4
105°	4.8	4.8	8.7	10.3	7.2	6.4	12.7	14.3	11.1	1.6	2.4
107.5°	4.8	4.8	4.0	5.6	2.4	3.2	3.2	4.0	4.0	1.6	1.6
110°	5.6	4.8	2.4	2.4	1.6	1.6	1.6	1.6	1.6	3.2	3.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	5.6	4.8	2.4	1.6	1.6	1.6	1.6	1.6	1.6	4.0	4.0
115°	4.8	4.0	2.4	1.6	1.6	1.6	1.6	0.8	1.6	4.8	4.8
117.5°	5.6	4.8	2.4	1.6	0.8	1.6	1.6	0.8	1.6	5.6	5.6
120°	6.4	5.6	2.4	1.6	0.8	0.8	0.8	0.8	2.4	5.6	5.6
122.5°	6.4	6.4	3.2	0.8	0.8	0.8	0.8	0.8	2.4	5.6	5.6
125°	6.4	5.6	2.4	0.8	0.8	0.8	0.0	0.8	2.4	5.6	6.4
127.5°	4.8	4.8	2.4	0.8	0.8	0.8	0.0	0.8	2.4	4.8	5.6
130°	4.0	4.0	1.6	0.8	0.8	0.8	0.0	0.8	2.4	4.8	4.8
132.5°	3.2	3.2	1.6	0.8	0.8	0.0	0.0	0.0	2.4	4.0	4.0
135°	2.4	2.4	0.8	0.8	0.8	0.0	0.0	0.0	1.6	3.2	3.2
137.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.8	1.6	1.6
140°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.8
142.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.8
145°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.8
147.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.8
150°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.8	1.6	0.8	1.6
152.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.8	1.6	1.6	1.6
155°	1.6	1.6	1.6	0.8	0.8	0.0	0.0	0.0	0.8	1.6	1.6
157.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.8	0.8	0.8	0.8	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

(END OF REPORT)