

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: P559998

Luminaire Tested: **SDL-PA1-20-727-U-T4W-HSS**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P559998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-10)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-20-727-U-T4W-HSS
Description: Springdale
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1669.3 lumens
Efficiency: N/A
Efficacy: 79.5 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: B0 - U0 - 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

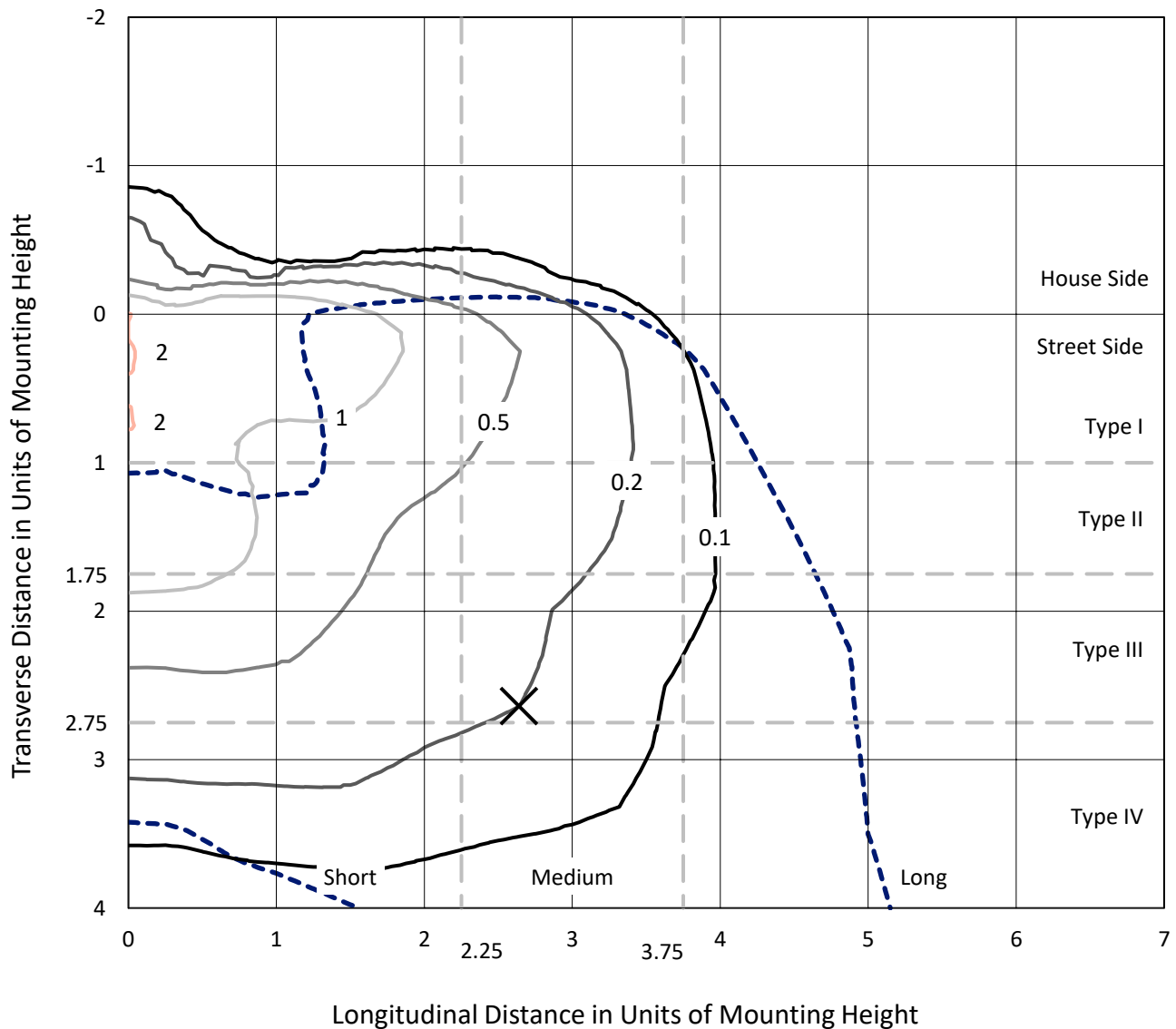


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

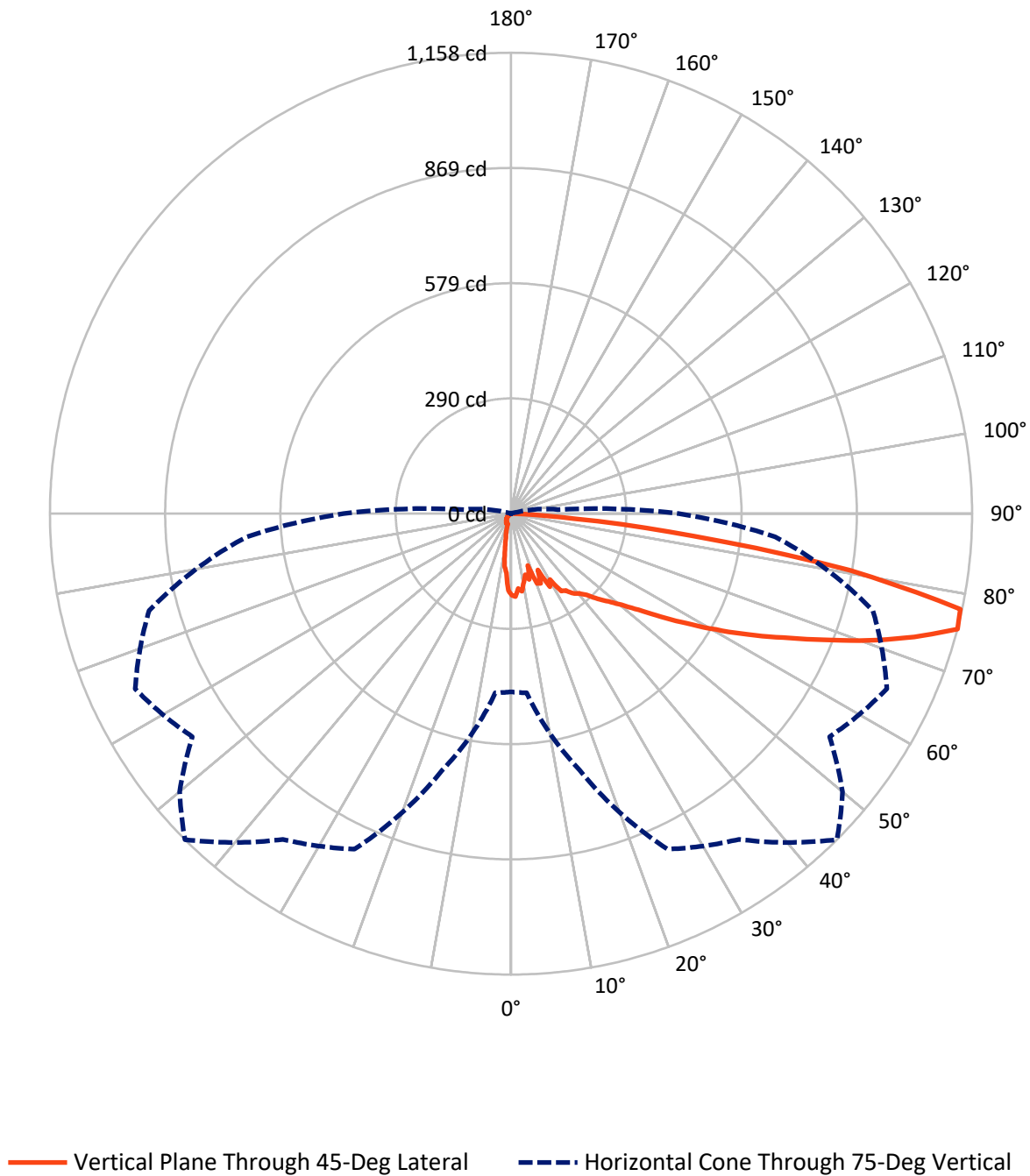


Based on 10 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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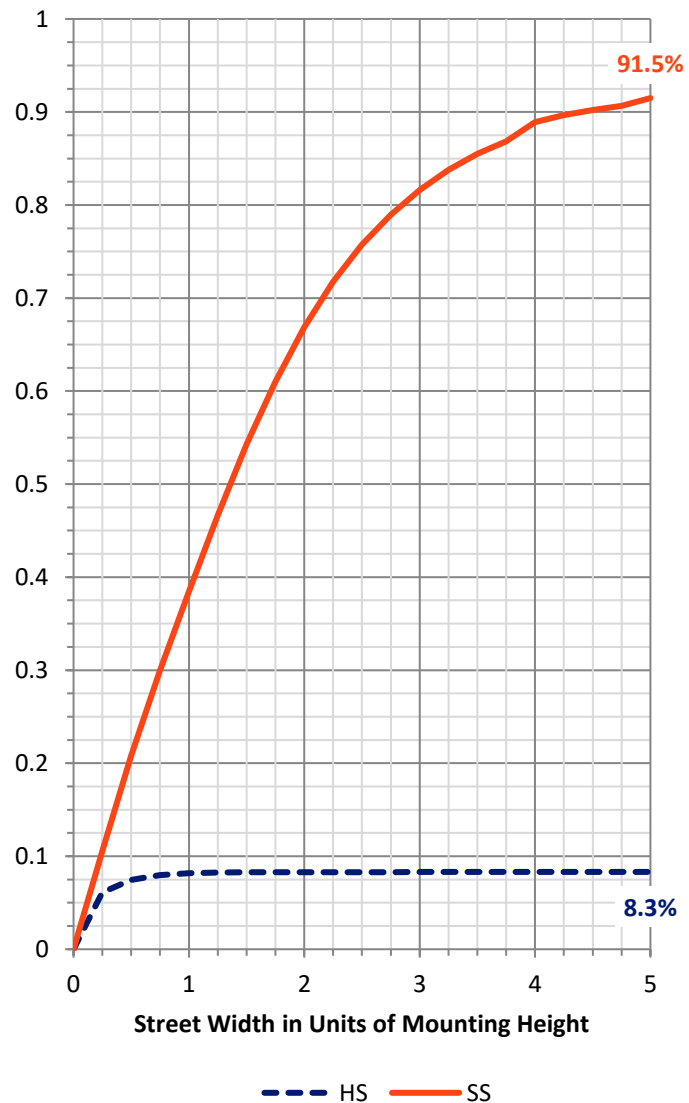
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	140.1	0.0	140.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	1529.1	0.0	1529.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	1669.3	0.0	1669.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.9	1.0
10°-20°	34.9	2.1
20°-30°	59.1	3.5
30°-40°	108.8	6.5
40°-50°	178.6	10.7
50°-60°	317.8	19.0
60°-70°	475.5	28.5
70°-80°	423.4	25.4
80°-90°	55.3	3.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1669.3	100.0
0°-180°	1669.3	100.0

Coefficient of Utilization



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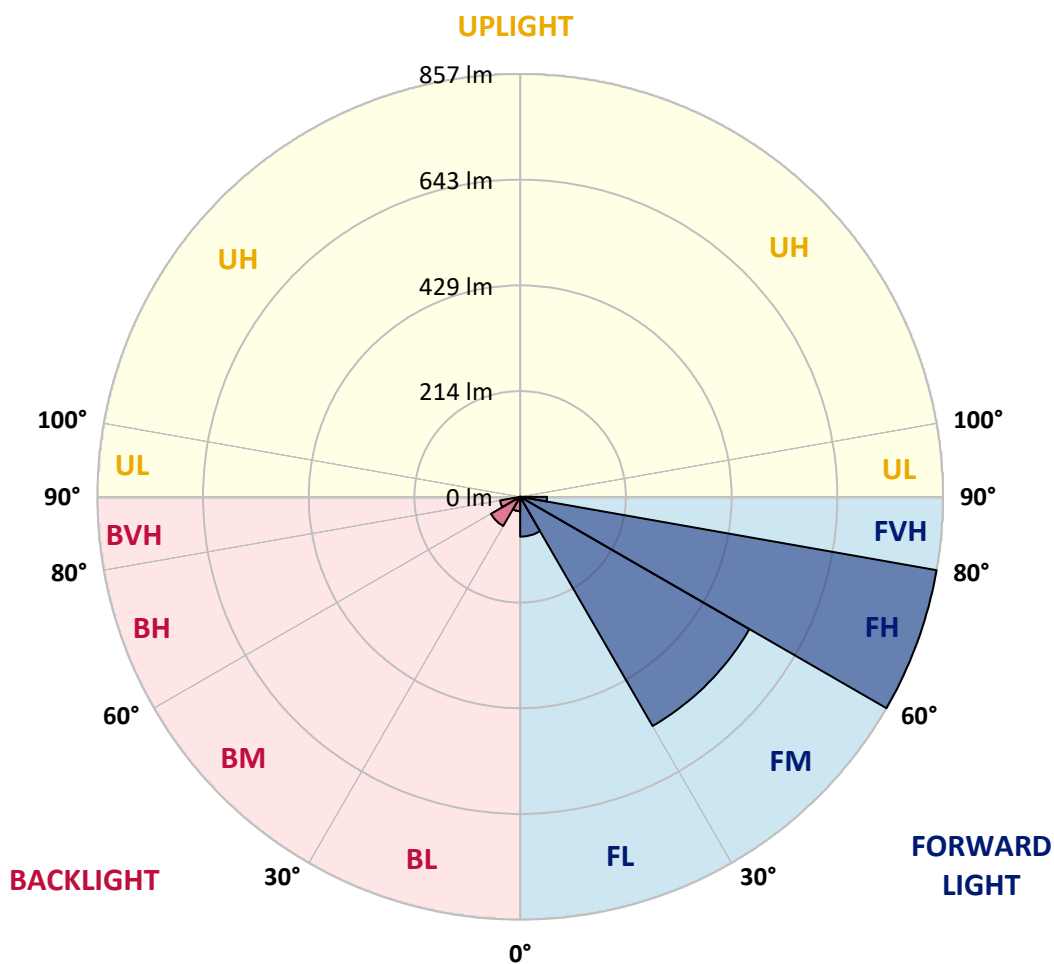
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	80.7	4.8			
FM	(30°-60°)	536.6	32.1			
FH	(60°-80°)	857.4	51.4			G1/1800
FVH	(80°-90°)	54.5	3.3			G1/100
BL	(0°-30°)	29.2	1.8	B0/110		
BM	(30°-60°)	68.6	4.1	B0/220		
BH	(60°-80°)	41.5	2.5	B0/110		G0/110
BVH	(80°-90°)	0.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7
2.5°	190.4	204.7	206.4	207.2	208.9	209.7	209.7	209.7	209.7	208.9	208.9
5°	201.3	200.5	199.6	198.8	198.0	196.3	194.6	192.1	190.4	188.7	187.1
7.5°	197.1	198.0	200.5	202.2	201.3	200.5	202.2	203.0	200.5	197.1	193.8
10°	229.8	228.2	226.5	224.8	222.3	219.8	199.6	179.5	177.8	175.3	173.6
12.5°	201.3	226.5	226.5	226.5	226.5	226.5	213.1	199.6	178.7	157.7	133.4
15°	251.7	250.8	247.5	244.1	221.5	198.0	185.4	172.8	172.8	172.0	161.9
17.5°	208.9	208.9	225.6	241.6	232.4	223.1	205.5	187.9	162.7	136.7	146.8
20°	264.2	264.2	260.9	257.5	218.9	180.3	182.0	183.7	185.4	187.1	155.2
22.5°	217.3	215.6	213.9	212.2	216.4	220.6	186.2	151.0	171.1	190.4	148.5
25°	265.1	267.6	265.9	263.4	229.0	194.6	202.2	208.9	182.9	156.9	182.0
27.5°	227.3	224.8	221.5	217.3	219.8	222.3	206.4	189.6	198.8	208.0	166.9
30°	278.5	279.3	277.7	276.0	243.3	210.5	209.7	208.0	200.5	192.1	187.9
32.5°	344.8	338.1	314.6	291.1	270.9	250.8	234.9	218.9	225.6	231.5	208.9
35°	376.6	364.1	354.0	343.1	309.5	275.1	255.8	235.7	236.6	237.4	228.2
37.5°	407.7	389.2	376.6	364.1	323.8	283.5	262.6	241.6	248.3	254.2	244.1
40°	418.6	408.5	401.0	393.4	350.6	307.0	282.7	257.5	260.9	263.4	260.0
42.5°	446.3	444.6	440.4	435.4	384.2	332.2	302.8	273.5	276.8	279.3	277.7
45°	512.5	510.0	510.0	509.2	442.9	375.8	337.2	298.6	302.0	305.3	303.7
47.5°	598.1	593.9	588.9	583.0	512.5	441.2	385.9	329.7	329.7	329.7	332.2
50°	687.8	682.0	671.1	659.3	588.0	516.7	446.3	375.8	368.2	359.9	369.1
52.5°	781.0	770.9	752.4	733.1	670.2	607.3	527.6	447.1	424.5	401.0	412.7
55°	831.3	820.4	807.8	794.4	743.2	691.2	609.8	528.5	493.2	457.2	469.7
57.5°	872.4	869.9	864.0	858.1	818.7	779.3	697.9	615.7	567.9	520.1	531.0
60°	928.6	925.2	927.8	930.3	900.1	869.9	792.7	714.7	653.5	591.4	588.0
62.5°	970.5	969.7	982.3	994.9	978.9	962.1	875.7	788.5	728.9	668.6	651.8
65°	931.9	942.9	989.8	1036.8	1034.3	1030.9	950.4	869.0	810.3	750.8	728.9
67.5°	850.6	855.6	925.2	994.0	1024.2	1053.6	996.5	938.7	892.5	845.5	805.3
70°	774.2	785.1	846.4	907.6	985.6	1063.6	1018.3	973.0	963.8	953.8	901.7
72.5°	700.4	719.7	776.8	833.8	937.8	1041.0	1014.2	987.3	1023.4	1059.4	997.4
75°	447.9	452.1	560.3	667.7	799.4	930.3	964.7	999.1	1078.7	1158.4	1087.1
77.5°	130.9	145.1	226.5	307.9	458.8	609.0	726.4	843.9	999.1	1154.2	1067.0
80°	44.5	47.8	59.6	70.5	151.0	231.5	367.4	502.5	682.8	863.2	801.9
82.5°	21.8	22.6	28.5	33.6	51.2	68.8	138.4	207.2	334.7	461.4	472.3
85°	6.7	6.7	10.1	13.4	21.8	30.2	52.0	73.0	115.8	157.7	133.4
87.5°	1.7	1.7	2.5	3.4	5.0	6.7	6.7	6.7	5.0	3.4	4.2
90°	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7
2.5°	209.7	209.7	209.7	208.9	207.2	206.4	204.7	203.0	201.3	200.5	198.8
5°	184.5	195.4	205.5	206.4	206.4	203.8	201.3	198.8	196.3	193.8	191.3
7.5°	189.6	183.7	177.8	178.7	179.5	178.7	177.0	172.8	169.4	162.7	155.2
10°	151.8	147.6	142.6	144.3	146.0	150.2	154.3	151.0	146.0	133.4	120.0
12.5°	149.3	148.5	146.8	134.2	120.8	127.5	133.4	130.0	125.0	112.4	99.0
15°	127.5	128.3	128.3	140.9	153.5	158.5	162.7	158.5	152.7	135.9	118.3
17.5°	164.4	156.0	147.6	142.6	136.7	138.4	140.1	121.6	127.5	116.6	104.9
20°	170.3	142.6	114.9	137.6	160.2	167.8	175.3	171.1	163.6	136.7	109.0
22.5°	155.2	165.3	175.3	161.1	146.8	137.6	127.5	123.3	118.3	106.5	94.8
25°	192.1	164.4	135.9	162.7	188.7	190.4	192.1	184.5	176.2	142.6	109.0
27.5°	172.0	181.2	189.6	195.4	201.3	208.9	216.4	208.0	187.9	148.5	108.2
30°	204.7	217.3	229.8	249.1	268.4	274.3	279.3	270.1	254.2	187.9	120.8
32.5°	213.9	239.1	264.2	271.8	278.5	286.0	293.6	286.0	266.7	186.2	104.9
35°	239.1	256.7	273.5	285.2	296.9	303.7	310.4	305.3	279.3	183.7	88.1
37.5°	246.6	270.1	292.8	306.2	318.8	324.6	329.7	329.7	292.8	182.0	70.5
40°	258.4	287.7	317.1	329.7	341.4	350.6	359.0	362.4	307.9	181.2	53.7
42.5°	281.8	307.9	333.9	354.0	373.3	386.7	400.1	402.6	325.5	183.7	41.1
45°	307.0	334.7	362.4	389.2	416.1	435.4	453.8	452.1	346.4	190.4	33.6
47.5°	343.1	369.1	395.1	440.4	484.8	503.3	520.9	509.2	368.2	198.8	29.4
50°	380.0	411.9	443.7	501.6	558.7	575.4	591.4	567.1	389.2	208.9	27.7
52.5°	427.8	465.6	503.3	569.6	635.8	650.9	666.0	616.5	405.2	215.6	26.0
55°	484.0	532.7	581.3	644.2	706.3	723.9	741.5	665.2	412.7	218.9	25.2
57.5°	552.0	608.2	663.5	721.4	778.4	802.8	826.3	713.0	416.1	219.8	23.5
60°	618.2	680.3	742.4	791.9	841.4	879.1	916.0	760.0	414.4	218.1	21.0
62.5°	679.5	748.2	816.2	862.3	908.5	953.8	999.1	797.7	403.5	210.5	16.8
65°	743.2	816.2	888.3	928.6	968.9	1027.6	1085.5	830.4	388.4	200.5	11.7
67.5°	801.1	870.7	940.3	985.6	1030.9	1088.8	1145.8	838.8	366.6	187.9	8.4
70°	849.7	925.2	999.9	1046.0	1092.2	1121.5	1150.0	801.9	323.0	164.4	5.9
72.5°	916.8	984.8	1051.9	1075.4	1098.0	1046.9	994.9	668.6	242.4	124.1	5.0
75°	977.2	1010.0	1041.8	991.5	941.2	803.6	666.0	421.1	118.3	62.1	5.0
77.5°	916.0	898.4	880.8	726.4	571.2	424.5	276.8	165.3	36.9	20.1	3.4
80°	663.5	583.0	501.6	347.3	192.1	128.3	63.8	36.9	9.2	5.9	2.5
82.5°	357.3	276.0	193.8	125.0	56.2	37.7	18.5	12.6	4.2	3.4	1.7
85°	129.2	102.3	74.7	57.9	41.1	24.3	6.7	4.2	2.5	2.5	1.7
87.5°	11.7	13.4	15.1	11.7	7.5	5.0	1.7	1.7	1.7	1.7	0.8
90°	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7
2.5°	198.0	197.1	196.3	194.6	193.8	192.9	187.1	181.2	174.5	167.8	167.8
5°	180.3	169.4	163.6	157.7	153.5	149.3	148.5	146.8	145.1	143.4	142.6
7.5°	151.0	146.8	143.4	140.1	135.9	131.7	127.5	123.3	120.0	116.6	109.0
10°	113.2	106.5	101.5	96.5	93.9	90.6	85.6	79.7	79.7	79.7	78.9
12.5°	98.1	97.3	84.7	71.3	67.1	62.9	62.1	61.2	59.6	57.0	53.7
15°	97.3	75.5	64.6	52.8	50.3	47.0	41.9	36.1	35.2	33.6	37.7
17.5°	88.1	71.3	58.7	46.1	36.9	27.7	29.4	30.2	34.4	37.7	40.3
20°	79.7	50.3	41.9	32.7	30.2	26.8	28.5	30.2	29.4	27.7	31.9
22.5°	74.7	53.7	39.4	25.2	26.8	28.5	26.8	24.3	28.5	32.7	35.2
25°	72.1	34.4	31.0	26.8	25.2	23.5	26.8	29.4	27.7	26.0	31.0
27.5°	71.3	34.4	29.4	23.5	25.2	26.8	26.0	24.3	27.7	30.2	29.4
30°	76.3	31.0	27.7	24.3	23.5	22.6	24.3	26.0	26.0	25.2	29.4
32.5°	67.9	31.0	27.7	23.5	23.5	22.6	22.6	22.6	25.2	27.7	29.4
35°	58.7	28.5	26.0	22.6	21.8	21.0	21.8	21.8	24.3	26.0	29.4
37.5°	48.7	26.8	24.3	21.0	20.1	19.3	19.3	18.5	21.0	23.5	26.0
40°	39.4	25.2	22.6	19.3	18.5	17.6	17.6	17.6	19.3	20.1	21.8
42.5°	32.7	23.5	21.0	17.6	16.8	15.9	15.9	15.1	15.9	16.8	17.6
45°	28.5	22.6	20.1	16.8	15.9	14.3	13.4	12.6	12.6	12.6	12.6
47.5°	25.2	21.0	19.3	16.8	15.1	12.6	11.7	10.1	9.2	8.4	7.5
50°	23.5	19.3	17.6	15.1	13.4	10.9	9.2	7.5	6.7	5.0	5.0
52.5°	21.8	17.6	15.9	13.4	10.9	8.4	6.7	4.2	4.2	3.4	3.4
55°	21.0	16.8	14.3	11.7	9.2	5.9	4.2	2.5	2.5	1.7	1.7
57.5°	20.1	15.9	13.4	10.1	6.7	3.4	2.5	1.7	1.7	1.7	1.7
60°	17.6	14.3	10.9	6.7	4.2	1.7	1.7	0.8	1.7	1.7	1.7
62.5°	14.3	10.9	7.5	4.2	2.5	0.8	0.8	0.8	1.7	1.7	1.7
65°	10.1	7.5	5.0	2.5	1.7	0.8	0.8	0.8	0.8	0.8	0.8
67.5°	7.5	5.9	4.2	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8
70°	5.0	4.2	3.4	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8
72.5°	4.2	3.4	2.5	0.8	0.8	0.0	0.8	0.8	0.8	0.8	0.8
75°	4.2	3.4	2.5	0.8	0.8	0.0	0.8	0.8	0.8	0.8	0.8
77.5°	3.4	2.5	1.7	0.8	0.8	0.0	0.8	1.7	1.7	1.7	1.7
80°	2.5	1.7	1.7	0.8	0.8	0.0	0.8	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	0.8	0.8	0.0	1.7	2.5	2.5	1.7	1.7
85°	1.7	0.8	0.8	0.8	0.8	0.8	1.7	2.5	2.5	2.5	1.7
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.7	2.5	2.5	2.5	1.7
90°	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):

	165°	170°	175°	180°
0°	204.7	204.7	204.7	204.7
2.5°	166.9	166.9	166.1	166.1
5°	140.9	140.9	140.1	140.1
7.5°	101.5	99.8	97.3	98.1
10°	78.0	76.3	74.7	76.3
12.5°	50.3	51.2	51.2	48.7
15°	41.1	44.5	47.0	47.0
17.5°	42.8	42.8	41.9	41.9
20°	36.1	39.4	42.8	42.8
22.5°	36.9	35.2	33.6	33.6
25°	35.2	37.7	39.4	39.4
27.5°	28.5	29.4	30.2	30.2
30°	32.7	34.4	35.2	35.2
32.5°	31.0	32.7	33.6	34.4
35°	31.9	33.6	34.4	34.4
37.5°	28.5	29.4	30.2	30.2
40°	22.6	23.5	24.3	24.3
42.5°	17.6	17.6	16.8	17.6
45°	11.7	11.7	10.9	11.7
47.5°	6.7	6.7	6.7	6.7
50°	4.2	4.2	4.2	4.2
52.5°	2.5	2.5	2.5	2.5
55°	1.7	1.7	1.7	1.7
57.5°	1.7	1.7	0.8	0.8
60°	0.8	0.8	0.8	0.8
62.5°	0.8	0.8	0.0	0.0
65°	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0
75°	0.8	0.8	0.0	0.0
77.5°	0.8	0.8	0.0	0.0
80°	0.8	0.8	0.0	0.0
82.5°	0.8	0.8	0.0	0.0
85°	0.8	0.8	0.8	0.0
87.5°	0.8	0.8	0.8	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)