

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: P560131

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

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P560131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-12)
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
Description: Springdale
(1) 80 CRI, 3000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2178.1 lumens
Efficiency: N/A
Efficacy: 103.7 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 - 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

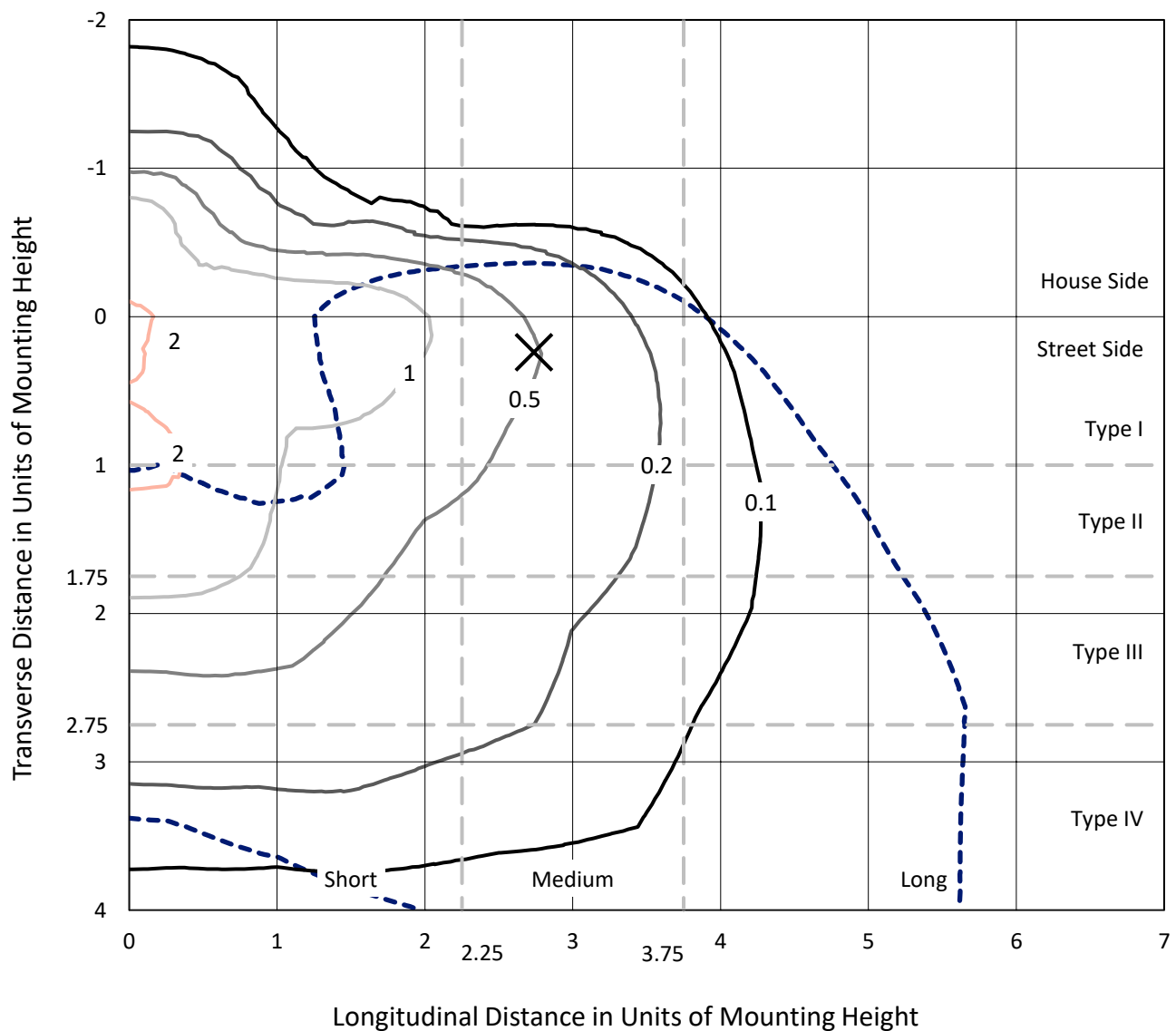


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

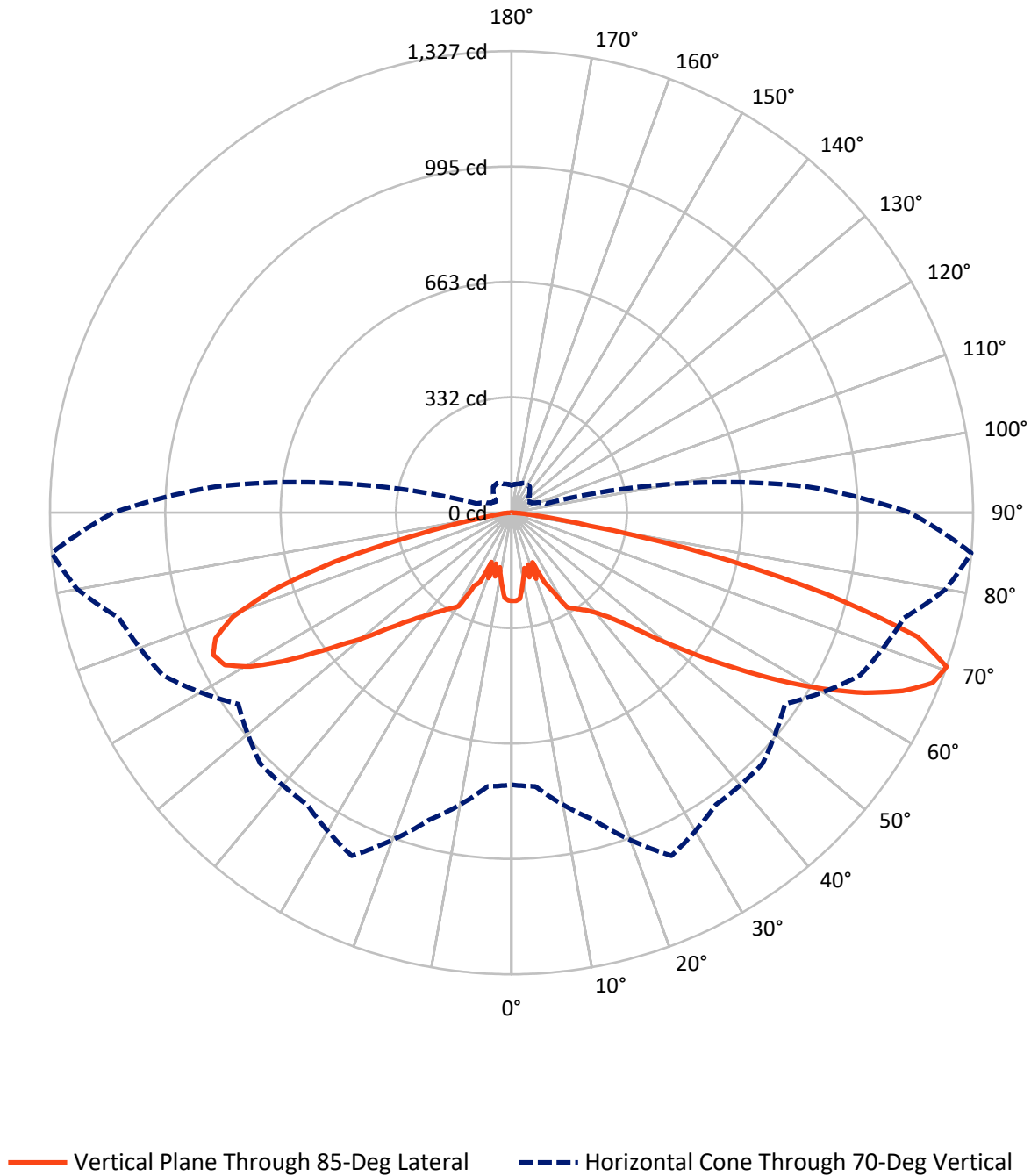


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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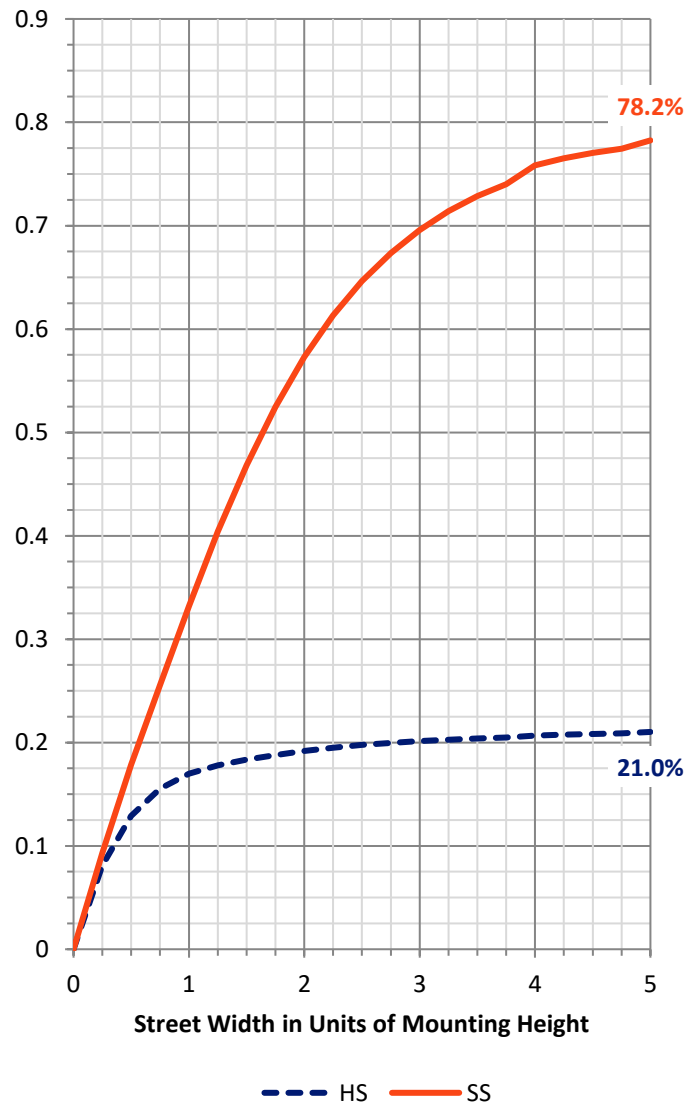
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	468.3	0.0	468.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	1709.8	0.0	1709.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	2178.1	0.0	2178.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.0	1.0
10°-20°	53.0	2.4
20°-30°	92.7	4.3
30°-40°	163.2	7.5
40°-50°	246.2	11.3
50°-60°	391.7	18.0
60°-70°	574.4	26.4
70°-80°	538.6	24.7
80°-90°	97.2	4.5
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°	2178.1	100.0
0°-180°	2178.1	100.0

Coefficient of Utilization



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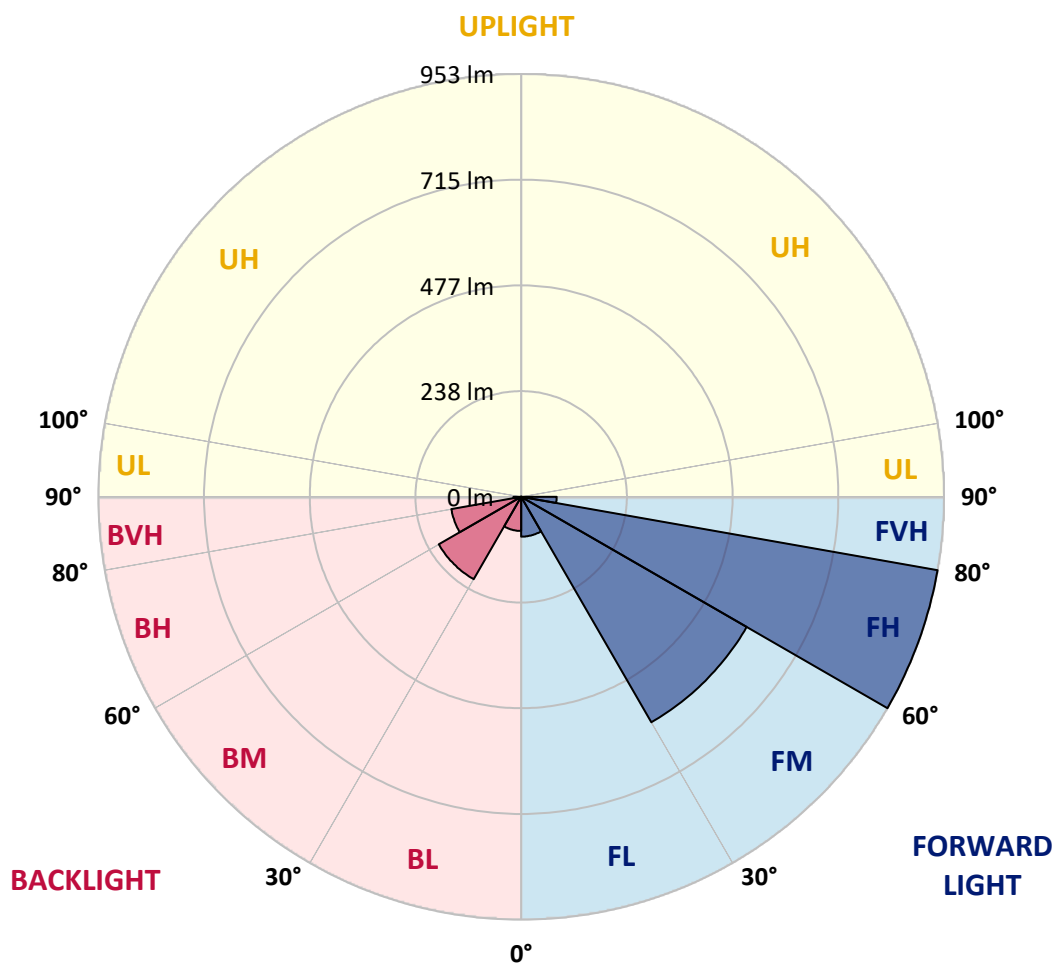
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	89.8	4.1			
FM	(30°-60°)	586.8	26.9			
FH	(60°-80°)	953.1	43.8			G1/1800
FVH	(80°-90°)	80.1	3.7			G1/100
BL	(0°-30°)	76.9	3.5	B0/110		
BM	(30°-60°)	214.4	9.8	B0/220		
BH	(60°-80°)	159.9	7.3	B1/500		G1/500
BVH	(80°-90°)	17.2	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	253.3	253.3	253.3	253.3	253.3	253.3	253.3	253.3	253.3	253.3	253.3
2.5°	230.0	239.6	244.4	249.3	250.9	252.5	252.5	251.7	251.7	251.7	253.3
5°	234.0	233.2	233.2	233.2	232.4	231.6	230.8	229.2	228.4	226.7	225.9
7.5°	214.7	230.8	231.6	232.4	232.4	231.6	233.2	234.8	233.2	230.8	227.5
10°	254.9	254.1	252.5	250.9	248.5	246.0	227.5	208.3	209.9	211.5	196.2
12.5°	221.1	236.4	242.8	249.3	250.1	250.1	237.2	223.5	205.8	188.1	180.9
15°	270.2	268.6	265.3	262.1	240.4	217.9	205.0	192.2	192.2	192.2	170.5
17.5°	227.5	226.7	241.2	255.7	247.7	239.6	221.1	202.6	175.3	147.1	164.8
20°	279.0	279.0	275.0	271.0	234.0	196.2	198.6	200.2	201.0	201.0	193.0
22.5°	234.0	232.4	234.0	234.8	234.8	234.8	201.0	167.2	185.7	203.4	184.9
25°	279.0	279.8	279.0	278.2	244.4	209.9	215.5	221.1	195.4	168.9	186.5
27.5°	243.6	242.8	238.8	234.8	235.6	236.4	218.7	200.2	210.7	221.1	202.6
30°	298.3	299.1	296.7	293.5	259.7	225.9	224.3	221.9	214.7	207.4	213.9
32.5°	360.2	360.2	335.3	310.4	289.5	267.8	250.1	232.4	239.6	246.8	238.8
35°	393.2	391.6	383.5	374.7	336.1	296.7	272.6	247.7	250.1	251.7	251.7
37.5°	451.9	451.1	439.8	428.6	376.3	323.2	291.9	259.7	264.5	268.6	262.9
40°	525.1	525.1	516.2	506.6	439.8	372.3	328.1	283.8	283.0	281.4	275.0
42.5°	595.8	598.2	592.6	587.0	509.0	431.0	373.1	315.2	308.0	300.7	294.3
45°	642.4	645.7	650.5	655.3	578.1	500.9	433.4	365.0	351.4	336.9	325.6
47.5°	689.9	685.1	691.5	697.9	632.0	566.1	492.1	418.1	395.6	373.1	361.0
50°	734.1	732.5	734.9	737.3	683.5	629.6	553.2	476.8	449.5	421.3	407.7
52.5°	792.0	786.4	783.2	779.9	734.1	688.3	615.9	542.7	510.6	477.6	461.5
55°	847.5	845.1	840.2	834.6	795.2	755.8	679.4	603.0	569.3	535.5	517.0
57.5°	904.6	903.0	902.2	901.4	866.8	832.2	754.2	675.4	636.8	597.4	582.1
60°	958.4	959.2	965.7	971.3	944.8	918.2	839.4	760.6	711.6	661.7	646.5
62.5°	990.6	993.0	1009.1	1024.4	1009.9	995.4	914.2	832.2	780.7	728.5	718.0
65°	949.6	961.7	1008.3	1054.9	1054.9	1054.9	981.0	906.2	861.1	816.1	807.3
67.5°	857.9	870.0	936.7	1002.7	1037.2	1071.8	1023.6	975.3	944.8	913.4	902.2
70°	782.3	789.6	852.3	914.2	1001.1	1087.9	1056.5	1024.4	1022.8	1020.4	989.8
72.5°	718.8	734.9	786.4	837.0	956.8	1076.6	1075.8	1075.0	1108.0	1141.0	1082.3
75°	574.9	573.3	621.5	669.8	804.9	939.1	1014.7	1089.5	1184.4	1278.5	1188.4
77.5°	256.5	274.2	320.0	365.8	487.3	607.9	753.4	898.9	1108.0	1316.2	1224.6
80°	73.2	77.2	90.1	102.1	159.2	215.5	368.3	520.2	783.2	1045.3	983.4
82.5°	38.6	40.2	48.2	55.5	71.6	86.8	144.7	201.8	427.8	652.9	596.6
85°	18.5	16.9	21.7	25.7	34.6	43.4	66.7	90.1	165.6	241.2	208.3
87.5°	4.0	4.0	4.8	4.8	7.2	9.6	14.5	19.3	18.5	16.9	20.1
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°	253.3	253.3	253.3	253.3	253.3	253.3	253.3	253.3	253.3	253.3	253.3
2.5°	254.1	254.9	255.7	254.9	254.1	253.3	253.3	252.5	252.5	251.7	250.1
5°	225.1	236.4	247.7	248.5	249.3	249.3	248.5	247.7	246.0	245.2	243.6
7.5°	224.3	220.3	216.3	217.1	217.9	218.7	218.7	216.3	215.5	209.1	202.6
10°	180.1	176.1	172.1	174.5	176.9	185.7	190.6	189.0	187.3	176.1	164.0
12.5°	173.7	172.1	170.5	158.4	146.3	156.8	164.0	163.2	160.8	150.4	139.9
15°	148.8	149.6	149.6	163.2	176.9	185.7	192.2	190.6	189.0	176.1	163.2
17.5°	181.7	172.9	163.2	160.8	158.4	162.4	156.8	147.9	153.6	152.0	150.4
20°	184.1	162.4	139.9	162.4	184.9	190.6	202.6	201.8	199.4	188.1	176.9
22.5°	166.4	179.3	191.4	179.3	167.2	159.2	155.2	153.6	152.8	156.0	158.4
25°	204.2	180.1	155.2	184.9	213.9	220.3	223.5	221.1	220.3	205.8	191.4
27.5°	183.3	196.2	209.1	218.7	228.4	236.4	260.5	237.2	236.4	222.7	208.3
30°	219.5	233.2	246.8	271.8	296.7	310.4	315.2	313.6	309.6	287.9	266.1
32.5°	230.8	258.1	284.6	295.9	306.3	320.8	328.1	327.3	323.2	297.5	271.0
35°	251.7	271.8	291.9	307.2	321.6	335.3	341.7	344.1	339.3	307.2	274.2
37.5°	257.3	283.0	308.8	324.8	340.9	351.4	357.0	364.2	358.6	320.0	280.6
40°	268.6	299.1	328.9	344.9	360.2	369.9	379.5	388.4	381.1	334.5	287.0
42.5°	287.0	318.4	349.0	367.5	385.1	398.8	410.1	422.1	408.5	348.2	287.0
45°	314.4	343.3	372.3	397.2	421.3	438.2	454.3	471.2	443.8	365.8	287.0
47.5°	349.0	377.1	404.4	443.8	483.2	498.5	517.8	533.9	489.7	388.4	287.0
50°	393.2	424.5	455.9	508.2	559.6	574.1	598.2	610.3	550.8	422.9	294.3
52.5°	444.6	479.2	513.0	574.1	635.2	659.3	691.5	699.5	612.7	457.5	301.5
55°	498.5	545.2	591.0	658.5	725.3	748.6	794.4	800.8	692.3	500.1	307.2
57.5°	566.9	621.5	675.4	741.3	806.5	839.4	911.0	913.4	784.8	552.4	319.2
60°	631.2	699.5	767.1	829.8	892.5	944.0	1026.8	1027.6	871.6	591.8	311.2
62.5°	707.6	788.8	869.2	923.1	976.9	1040.5	1140.2	1125.7	932.7	596.6	260.5
65°	797.6	881.2	964.9	1010.7	1055.7	1128.1	1235.8	1180.4	949.6	569.3	188.1
67.5°	890.1	968.1	1046.1	1082.3	1118.4	1210.1	1305.8	1186.8	924.7	528.3	131.1
70°	959.2	1032.4	1105.6	1136.9	1168.3	1267.2	1326.7	1145.0	854.7	478.4	102.1
72.5°	1022.8	1091.9	1160.3	1176.3	1191.6	1242.3	1220.6	1009.1	720.4	402.8	84.4
75°	1098.3	1142.6	1186.0	1157.0	1128.1	1059.7	936.7	735.7	527.5	299.9	72.4
77.5°	1132.9	1122.5	1111.2	1012.3	913.4	730.1	582.1	425.3	267.8	164.8	61.9
80°	921.5	879.6	837.0	671.4	505.8	345.7	226.7	143.9	98.1	74.0	49.9
82.5°	539.5	442.2	344.9	253.3	161.6	113.4	74.0	58.7	45.8	43.4	40.2
85°	174.5	154.4	134.3	106.1	78.0	48.2	28.1	25.7	24.1	26.5	28.1
87.5°	23.3	23.3	22.5	16.9	10.5	5.6	3.2	2.4	2.4	3.2	3.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	253.3	253.3	253.3	253.3	253.3	253.3	253.3	253.3	253.3	253.3	253.3
2.5°	250.1	249.3	248.5	247.7	246.8	245.2	238.8	232.4	230.0	226.7	224.3
5°	235.6	227.5	221.9	216.3	213.9	210.7	211.5	212.3	213.1	213.1	213.1
7.5°	204.2	205.8	206.6	206.6	209.1	210.7	212.3	213.1	209.9	206.6	202.6
10°	162.4	160.0	163.2	165.6	169.7	172.9	183.3	193.8	203.4	213.1	217.1
12.5°	147.9	156.0	149.6	143.1	156.0	168.0	182.5	197.0	205.8	213.9	206.6
15°	150.4	136.7	138.3	139.1	155.2	170.5	161.6	152.8	177.7	201.8	209.1
17.5°	147.9	145.5	154.4	162.4	147.1	131.9	153.6	174.5	185.7	197.0	193.8
20°	160.0	142.3	142.3	142.3	156.0	169.7	159.2	148.8	160.8	172.9	193.0
22.5°	165.6	172.1	159.2	145.5	154.4	163.2	163.2	162.4	176.1	189.0	185.7
25°	167.2	143.1	154.4	164.8	159.2	152.8	160.0	166.4	170.5	174.5	192.2
27.5°	191.4	174.5	161.6	147.9	158.4	168.9	166.4	164.0	167.2	170.5	174.5
30°	226.7	187.3	172.9	157.6	152.0	145.5	152.8	159.2	171.3	183.3	199.4
32.5°	237.2	202.6	179.3	155.2	154.4	152.8	155.2	156.8	170.5	183.3	205.8
35°	235.6	196.2	173.7	150.4	145.5	140.7	144.7	147.9	168.0	188.1	209.9
37.5°	234.0	186.5	163.2	139.9	136.7	132.7	136.7	140.7	156.0	171.3	191.4
40°	231.6	175.3	152.8	129.5	125.4	121.4	125.4	128.6	140.7	152.8	168.9
42.5°	225.9	164.0	141.5	118.2	115.0	111.0	114.2	117.4	127.8	138.3	147.9
45°	219.5	151.2	129.5	107.7	104.5	101.3	103.7	105.3	115.0	123.8	128.6
47.5°	212.3	137.5	117.4	97.3	94.1	90.9	93.3	94.9	102.1	109.4	111.0
50°	210.7	126.2	107.7	88.4	86.0	82.8	84.4	86.0	91.7	96.5	96.5
52.5°	207.4	112.6	97.3	81.2	79.6	77.2	78.0	78.8	82.8	86.8	86.0
55°	205.0	102.9	89.3	75.6	74.0	71.6	72.4	73.2	77.2	80.4	79.6
57.5°	207.4	94.9	82.8	70.0	68.3	66.7	68.3	70.0	74.0	78.0	78.0
60°	199.4	86.8	75.6	64.3	63.5	61.9	65.9	69.1	75.6	81.2	82.8
62.5°	170.5	79.6	70.0	60.3	61.1	61.1	68.3	74.8	83.6	91.7	93.3
65°	131.1	74.0	65.9	57.1	61.1	65.1	74.8	84.4	92.5	100.5	98.1
67.5°	100.5	70.0	63.5	56.3	65.1	73.2	82.0	90.9	94.9	98.1	94.1
70°	84.4	65.9	61.1	55.5	64.3	73.2	82.0	90.9	92.5	94.1	90.1
72.5°	74.0	62.7	57.9	53.1	60.3	67.5	78.0	87.6	89.3	90.1	86.0
75°	65.9	58.7	53.1	47.4	54.7	61.1	71.6	82.0	83.6	84.4	81.2
77.5°	57.9	53.9	47.4	41.0	48.2	55.5	65.1	74.8	77.2	79.6	75.6
80°	48.2	45.8	41.0	36.2	44.2	51.5	60.3	69.1	71.6	74.0	70.0
82.5°	38.6	37.0	33.8	30.6	38.6	46.6	55.5	63.5	65.9	67.5	62.7
85°	28.1	28.1	26.5	24.9	33.0	40.2	45.8	51.5	50.7	49.9	46.6
87.5°	4.0	4.0	5.6	7.2	9.6	11.3	14.5	16.9	17.7	17.7	13.7
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°	253.3	253.3	253.3	253.3
2.5°	221.9	221.9	221.1	222.7
5°	213.1	213.9	213.9	214.7
7.5°	198.6	194.6	189.8	190.6
10°	221.1	221.9	222.7	222.7
12.5°	198.6	195.4	191.4	192.2
15°	215.5	217.9	220.3	221.1
17.5°	189.8	189.0	188.1	187.3
20°	212.3	216.3	220.3	220.3
22.5°	182.5	182.5	182.5	183.3
25°	209.9	214.7	218.7	218.7
27.5°	177.7	189.0	200.2	209.1
30°	214.7	217.1	219.5	220.3
32.5°	227.5	239.6	250.9	253.3
35°	230.8	236.4	241.2	243.6
37.5°	211.5	216.3	221.1	224.3
40°	184.1	188.1	192.2	194.6
42.5°	156.8	157.6	158.4	162.4
45°	133.5	129.5	125.4	124.6
47.5°	111.8	106.1	100.5	99.7
50°	95.7	90.9	86.0	86.0
52.5°	84.4	81.2	78.0	78.0
55°	78.8	77.2	74.8	74.8
57.5°	78.0	77.2	76.4	76.4
60°	83.6	84.4	84.4	84.4
62.5°	94.1	94.9	94.9	94.9
65°	94.9	93.3	91.7	91.7
67.5°	90.1	87.6	85.2	83.6
70°	85.2	83.6	81.2	78.8
72.5°	81.2	79.6	77.2	74.8
75°	77.2	74.8	71.6	70.0
77.5°	71.6	70.0	67.5	65.9
80°	65.1	63.5	61.1	57.9
82.5°	57.9	58.7	58.7	50.7
85°	42.6	40.2	37.0	30.6
87.5°	8.8	8.0	6.4	5.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)