

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: P559844

Luminaire Tested: **SDL-PA1-100-730-U-T4W-HSS**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P559844
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-PA1-100-730-U-T4W-HSS
Description: Springdale
(1) 70 CRI, 3000K, 1200mA 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: 6806.9 lumens
Efficiency: N/A
Efficacy: 72.6 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 - G2

Input Watts (W): 93.8
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

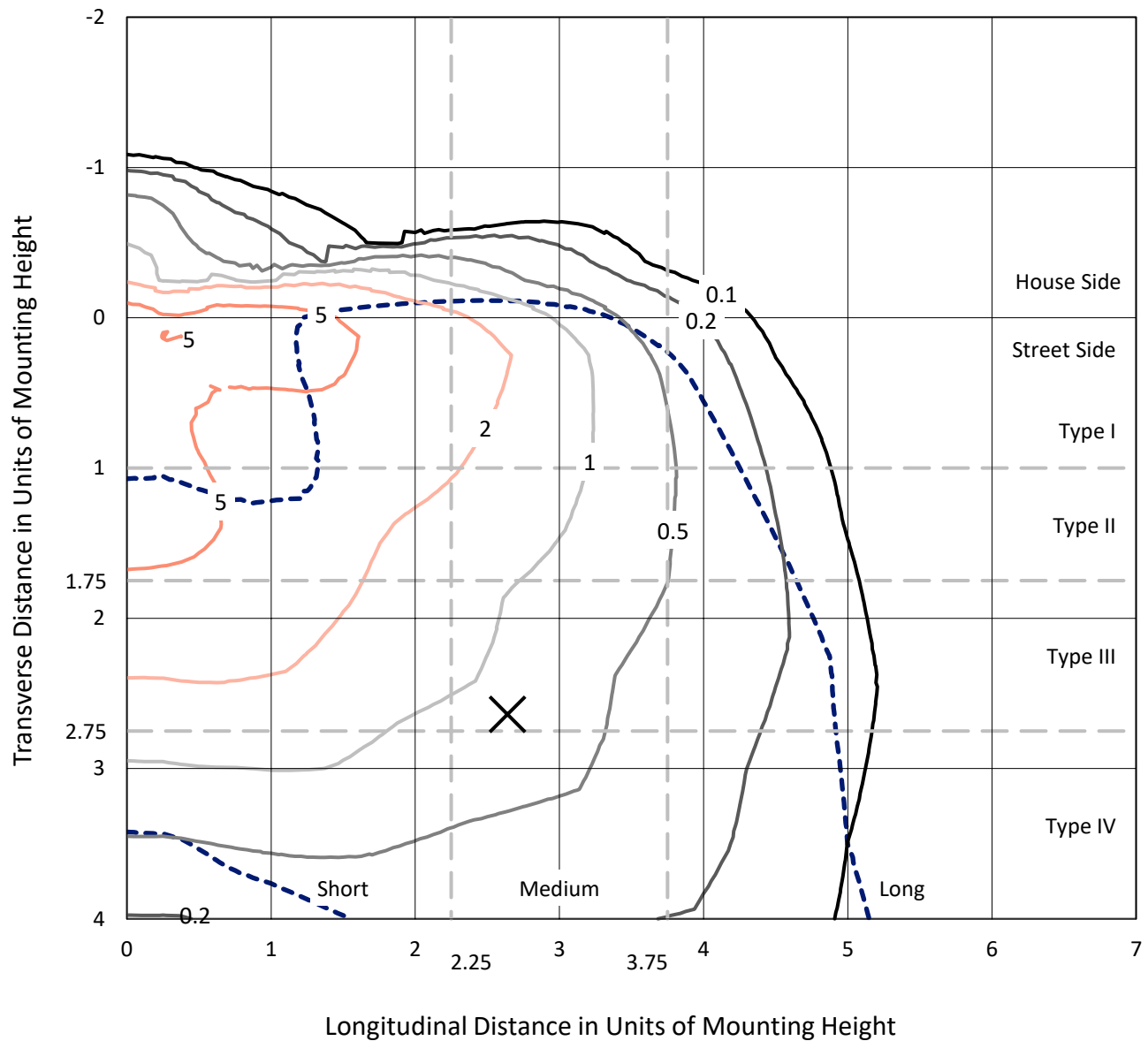


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

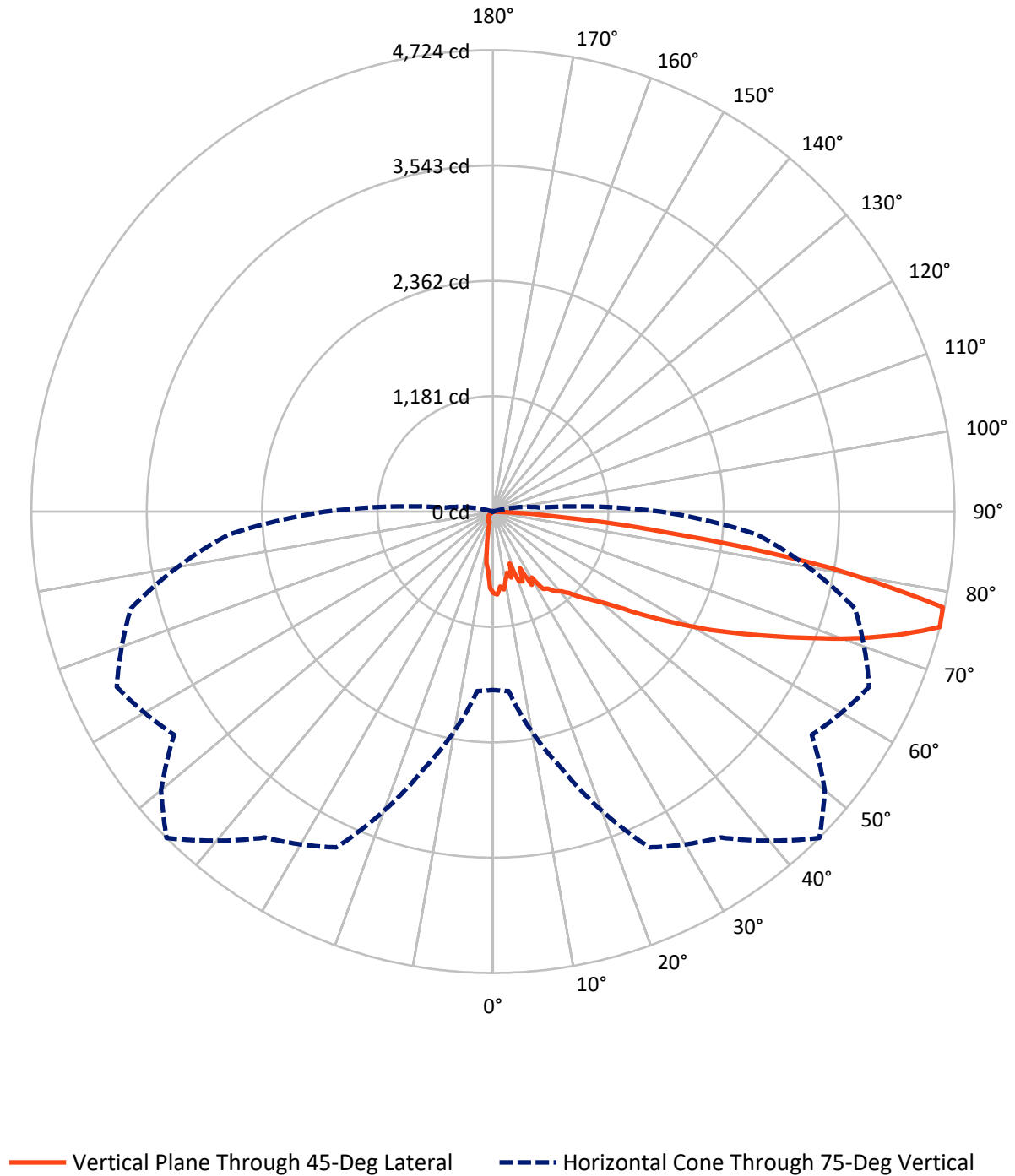


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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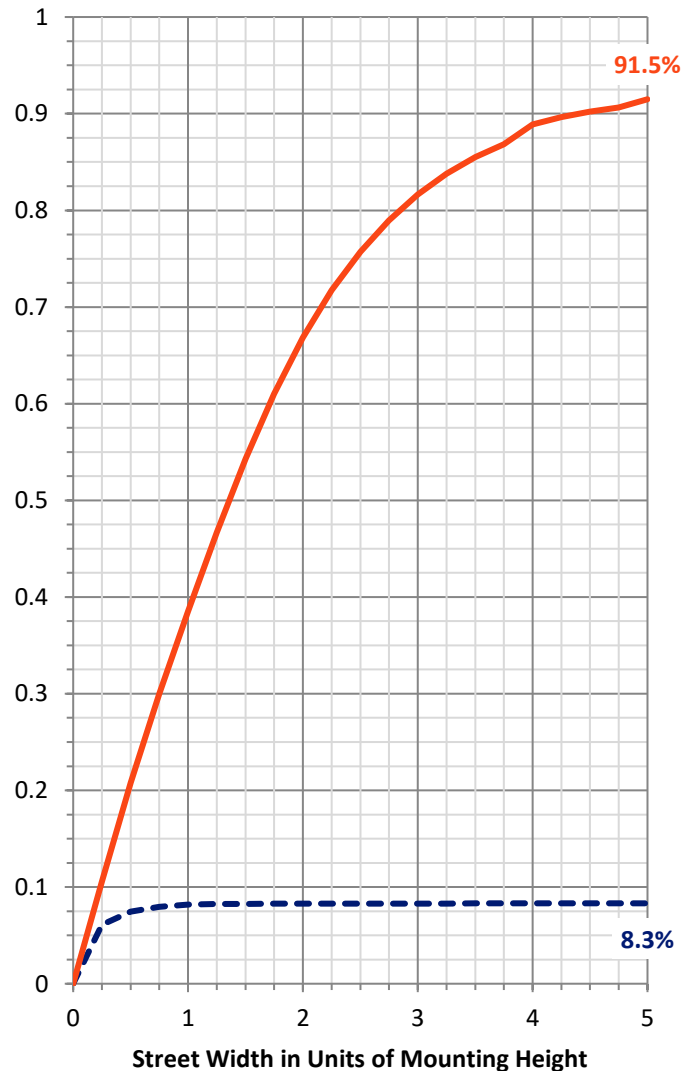
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	571.5	0.0	571.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	6235.5	0.0	6235.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	6806.9	0.0	6806.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	1.0
10°-20°	142.5	2.1
20°-30°	240.9	3.5
30°-40°	443.7	6.5
40°-50°	728.1	10.7
50°-60°	1295.9	19.0
60°-70°	1939.1	28.5
70°-80°	1726.4	25.4
80°-90°	225.5	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°	6806.9	100.0
0°-180°	6806.9	100.0



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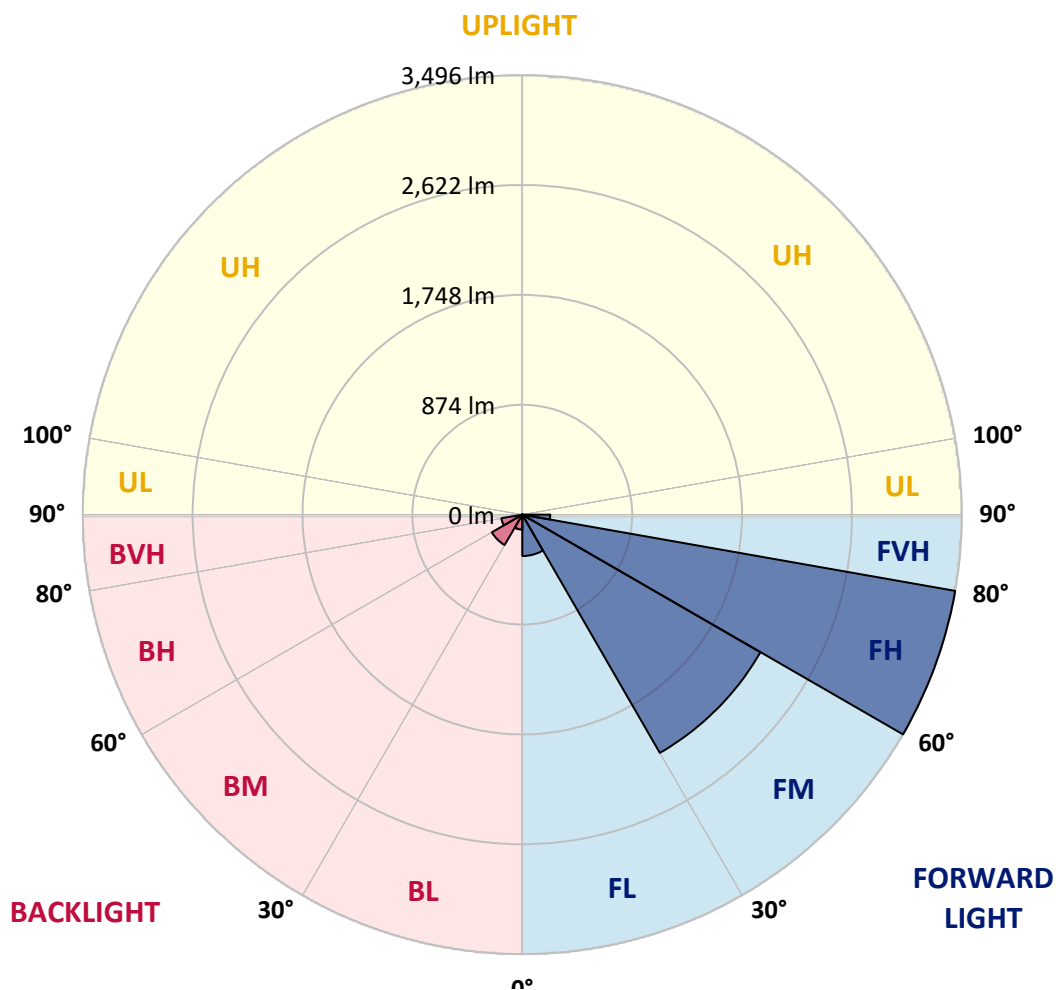
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	329.0	4.8			
FM	(30°-60°)	2188.1	32.1			
FH	(60°-80°)	3496.2	51.4			G2/5000
FVH	(80°-90°)	222.1	3.3			G2/225
BL	(0°-30°)	119.2	1.8	B1/500		
BM	(30°-60°)	279.6	4.1	B1/1000		
BH	(60°-80°)	169.2	2.5	B1/500		G1/500
BVH	(80°-90°)	3.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	834.6	834.6	834.6	834.6	834.6	834.6	834.6	834.6	834.6	834.6	834.6
2.5°	776.5	834.6	841.5	844.9	851.7	855.1	855.1	855.1	855.1	851.7	851.7
5°	820.9	817.5	814.1	810.7	807.3	800.4	793.6	783.3	776.5	769.6	762.8
7.5°	803.8	807.3	817.5	824.4	820.9	817.5	824.4	827.8	817.5	803.8	790.2
10°	937.2	930.4	923.6	916.7	906.5	896.2	814.1	732.0	725.2	714.9	708.1
12.5°	820.9	923.6	923.6	923.6	923.6	923.6	868.8	814.1	728.6	643.1	543.9
15°	1026.2	1022.8	1009.1	995.4	903.0	807.3	756.0	704.6	704.6	701.2	660.2
17.5°	851.7	851.7	920.1	985.1	947.5	909.9	838.0	766.2	663.6	557.6	598.6
20°	1077.5	1077.5	1063.8	1050.1	892.8	735.4	742.3	749.1	756.0	762.8	632.8
22.5°	885.9	879.1	872.3	865.4	882.5	899.6	759.4	615.7	697.8	776.5	605.4
25°	1080.9	1091.2	1084.3	1074.1	933.8	793.6	824.4	851.7	745.7	639.7	742.3
27.5°	927.0	916.7	903.0	885.9	896.2	906.5	841.5	773.1	810.7	848.3	680.7
30°	1135.6	1139.1	1132.2	1125.4	992.0	858.6	855.1	848.3	817.5	783.3	766.2
32.5°	1405.9	1378.5	1282.7	1186.9	1104.9	1022.8	957.8	892.8	920.1	944.1	851.7
35°	1535.8	1484.5	1443.5	1399.0	1262.2	1122.0	1043.3	961.2	964.6	968.0	930.4
37.5°	1662.4	1587.2	1535.8	1484.5	1320.4	1156.2	1070.6	985.1	1012.5	1036.4	995.4
40°	1706.9	1665.8	1635.0	1604.3	1429.8	1251.9	1152.7	1050.1	1063.8	1074.1	1060.4
42.5°	1819.8	1812.9	1795.8	1775.3	1566.6	1354.6	1234.8	1115.1	1128.8	1139.1	1132.2
45°	2090.0	2079.7	2079.7	2076.3	1806.1	1532.4	1375.1	1217.7	1231.4	1245.1	1238.3
47.5°	2438.9	2421.8	2401.3	2377.3	2090.0	1799.2	1573.5	1344.3	1344.3	1344.3	1354.6
50°	2804.9	2780.9	2736.5	2688.6	2397.8	2107.1	1819.8	1532.4	1501.6	1467.4	1505.1
52.5°	3184.6	3143.5	3068.3	2989.6	2733.1	2476.5	2151.6	1823.2	1730.8	1635.0	1682.9
55°	3389.8	3345.3	3294.0	3239.3	3030.7	2818.6	2486.8	2155.0	2011.3	1864.2	1915.5
57.5°	3557.4	3547.2	3523.2	3499.3	3338.5	3177.7	2845.9	2510.7	2315.7	2120.8	2165.2
60°	3786.6	3772.9	3783.2	3793.4	3670.3	3547.2	3232.5	2914.3	2664.6	2411.5	2397.8
62.5°	3957.6	3954.2	4005.5	4056.8	3991.8	3923.4	3571.1	3215.4	2972.5	2726.2	2657.8
65°	3800.3	3844.8	4036.3	4227.9	4217.6	4203.9	3875.5	3543.7	3304.3	3061.4	2972.5
67.5°	3468.5	3489.0	3772.9	4053.4	4176.6	4296.3	4063.7	3827.6	3639.5	3448.0	3283.8
70°	3157.2	3201.7	3451.4	3701.1	4019.2	4337.3	4152.6	3967.9	3930.3	3889.2	3677.1
72.5°	2856.2	2934.9	3167.5	3400.1	3824.2	4245.0	4135.5	4026.0	4173.1	4320.2	4067.1
75°	1826.6	1843.7	2285.0	2722.8	3259.8	3793.4	3933.7	4073.9	4398.9	4723.8	4433.1
77.5°	533.6	591.8	923.6	1255.4	1871.1	2483.4	2962.2	3441.1	4073.9	4706.7	4351.0
80°	181.3	195.0	242.9	287.3	615.7	944.1	1498.2	2048.9	2784.4	3519.8	3270.1
82.5°	88.9	92.4	116.3	136.8	208.7	280.5	564.4	844.9	1364.8	1881.3	1925.8
85°	27.4	27.4	41.0	54.7	88.9	123.1	212.1	297.6	472.0	643.1	543.9
87.5°	6.8	6.8	10.3	13.7	20.5	27.4	27.4	27.4	20.5	13.7	17.1
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°	834.6	834.6	834.6	834.6	834.6	834.6	834.6	834.6	834.6	834.6	834.6
2.5°	855.1	855.1	855.1	851.7	844.9	841.5	834.6	827.8	820.9	817.5	810.7
5°	752.5	797.0	838.0	841.5	841.5	831.2	820.9	810.7	800.4	790.2	779.9
7.5°	773.1	749.1	725.2	728.6	732.0	728.6	721.7	704.6	691.0	663.6	632.8
10°	619.1	602.0	581.5	588.3	595.2	612.3	629.4	615.7	595.2	543.9	489.1
12.5°	608.9	605.4	598.6	547.3	492.6	519.9	543.9	530.2	509.7	458.4	403.6
15°	519.9	523.4	523.4	574.7	626.0	646.5	663.6	646.5	622.5	554.1	482.3
17.5°	670.4	636.2	602.0	581.5	557.6	564.4	571.2	496.0	519.9	475.5	427.6
20°	694.4	581.5	468.6	561.0	653.3	684.1	714.9	697.8	667.0	557.6	444.7
22.5°	632.8	673.9	714.9	656.8	598.6	561.0	519.9	502.8	482.3	434.4	386.5
25°	783.3	670.4	554.1	663.6	769.6	776.5	783.3	752.5	718.3	581.5	444.7
27.5°	701.2	738.8	773.1	797.0	820.9	851.7	882.5	848.3	766.2	605.4	441.3
30°	834.6	885.9	937.2	1015.9	1094.6	1118.5	1139.1	1101.4	1036.4	766.2	492.6
32.5°	872.3	974.9	1077.5	1108.3	1135.6	1166.4	1197.2	1166.4	1087.8	759.4	427.6
35°	974.9	1046.7	1115.1	1163.0	1210.9	1238.3	1265.6	1245.1	1139.1	749.1	359.2
37.5°	1005.7	1101.4	1193.8	1248.5	1299.8	1323.8	1344.3	1344.3	1193.8	742.3	287.3
40°	1053.5	1173.3	1293.0	1344.3	1392.2	1429.8	1464.0	1477.7	1255.4	738.8	218.9
42.5°	1149.3	1255.4	1361.4	1443.5	1522.2	1576.9	1631.6	1641.9	1327.2	749.1	167.6
45°	1251.9	1364.8	1477.7	1587.2	1696.6	1775.3	1850.5	1843.7	1412.7	776.5	136.8
47.5°	1399.0	1505.1	1611.1	1795.8	1977.1	2052.4	2124.2	2076.3	1501.6	810.7	119.7
50°	1549.5	1679.5	1809.5	2045.5	2278.1	2346.5	2411.5	2312.3	1587.2	851.7	112.9
52.5°	1744.5	1898.4	2052.4	2322.6	2592.8	2654.4	2716.0	2514.1	1652.1	879.1	106.0
55°	1973.7	2172.1	2370.5	2627.0	2880.1	2952.0	3023.8	2712.5	1682.9	892.8	102.6
57.5°	2250.8	2479.9	2705.7	2941.7	3174.3	3273.5	3369.3	2907.5	1696.6	896.2	95.8
60°	2521.0	2774.1	3027.2	3229.0	3430.9	3584.8	3735.3	3099.1	1689.8	889.4	85.5
62.5°	2770.7	3051.2	3328.2	3516.4	3704.5	3889.2	4073.9	3253.0	1645.3	858.6	68.4
65°	3030.7	3328.2	3622.4	3786.6	3950.8	4190.2	4426.3	3386.4	1583.7	817.5	47.9
67.5°	3266.7	3550.6	3834.5	4019.2	4203.9	4439.9	4672.5	3420.6	1494.8	766.2	34.2
70°	3465.1	3772.9	4077.4	4265.5	4453.6	4573.3	4689.6	3270.1	1316.9	670.4	23.9
72.5°	3738.7	4015.8	4289.4	4385.2	4477.6	4268.9	4056.8	2726.2	988.6	506.2	20.5
75°	3985.0	4118.4	4248.4	4043.1	3837.9	3276.9	2716.0	1717.1	482.3	253.1	20.5
77.5°	3735.3	3663.5	3591.6	2962.2	2329.4	1730.8	1128.8	673.9	150.5	82.1	13.7
80°	2705.7	2377.3	2045.5	1416.1	783.3	523.4	260.0	150.5	37.6	23.9	10.3
82.5°	1457.2	1125.4	790.2	509.7	229.2	153.9	75.3	51.3	17.1	13.7	6.8
85°	526.8	417.3	304.4	236.0	167.6	99.2	27.4	17.1	10.3	10.3	6.8
87.5°	47.9	54.7	61.6	47.9	30.8	20.5	6.8	6.8	6.8	6.8	3.4
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°	834.6	834.6	834.6	834.6	834.6	834.6	834.6	834.6	834.6	834.6	834.6
2.5°	807.3	803.8	800.4	793.6	790.2	786.7	762.8	738.8	711.5	684.1	684.1
5°	735.4	691.0	667.0	643.1	626.0	608.9	605.4	598.6	591.8	584.9	581.5
7.5°	615.7	598.6	584.9	571.2	554.1	537.0	519.9	502.8	489.1	475.5	444.7
10°	461.8	434.4	413.9	393.4	383.1	369.4	348.9	325.0	325.0	325.0	321.5
12.5°	400.2	396.8	345.5	290.8	273.6	256.5	253.1	249.7	242.9	232.6	218.9
15°	396.8	307.9	263.4	215.5	205.2	191.6	171.0	147.1	143.7	136.8	153.9
17.5°	359.2	290.8	239.4	188.1	150.5	112.9	119.7	123.1	140.2	153.9	164.2
20°	325.0	205.2	171.0	133.4	123.1	109.5	116.3	123.1	119.7	112.9	130.0
22.5°	304.4	218.9	160.8	102.6	109.5	116.3	109.5	99.2	116.3	133.4	143.7
25°	294.2	140.2	126.6	109.5	102.6	95.8	109.5	119.7	112.9	106.0	126.6
27.5°	290.8	140.2	119.7	95.8	102.6	109.5	106.0	99.2	112.9	123.1	119.7
30°	311.3	126.6	112.9	99.2	95.8	92.4	99.2	106.0	106.0	102.6	119.7
32.5°	277.1	126.6	112.9	95.8	95.8	92.4	92.4	92.4	102.6	112.9	119.7
35°	239.4	116.3	106.0	92.4	88.9	85.5	88.9	88.9	99.2	106.0	119.7
37.5°	198.4	109.5	99.2	85.5	82.1	78.7	78.7	75.3	85.5	95.8	106.0
40°	160.8	102.6	92.4	78.7	75.3	71.8	71.8	71.8	78.7	82.1	88.9
42.5°	133.4	95.8	85.5	71.8	68.4	65.0	65.0	61.6	65.0	68.4	71.8
45°	116.3	92.4	82.1	68.4	65.0	58.2	54.7	51.3	51.3	51.3	51.3
47.5°	102.6	85.5	78.7	68.4	61.6	51.3	47.9	41.0	37.6	34.2	30.8
50°	95.8	78.7	71.8	61.6	54.7	44.5	37.6	30.8	27.4	20.5	20.5
52.5°	88.9	71.8	65.0	54.7	44.5	34.2	27.4	17.1	17.1	13.7	13.7
55°	85.5	68.4	58.2	47.9	37.6	23.9	17.1	10.3	10.3	6.8	6.8
57.5°	82.1	65.0	54.7	41.0	27.4	13.7	10.3	6.8	6.8	6.8	6.8
60°	71.8	58.2	44.5	27.4	17.1	6.8	6.8	3.4	6.8	6.8	6.8
62.5°	58.2	44.5	30.8	17.1	10.3	3.4	3.4	3.4	6.8	6.8	6.8
65°	41.0	30.8	20.5	10.3	6.8	3.4	3.4	3.4	3.4	3.4	3.4
67.5°	30.8	23.9	17.1	6.8	6.8	3.4	3.4	3.4	3.4	3.4	3.4
70°	20.5	17.1	13.7	6.8	6.8	3.4	3.4	3.4	3.4	3.4	3.4
72.5°	17.1	13.7	10.3	3.4	3.4	0.0	3.4	3.4	3.4	3.4	3.4
75°	17.1	13.7	10.3	3.4	3.4	0.0	3.4	3.4	3.4	3.4	3.4
77.5°	13.7	10.3	6.8	3.4	3.4	0.0	3.4	6.8	6.8	6.8	6.8
80°	10.3	6.8	6.8	3.4	3.4	0.0	3.4	6.8	6.8	6.8	6.8
82.5°	6.8	6.8	6.8	3.4	3.4	0.0	6.8	10.3	10.3	6.8	6.8
85°	6.8	3.4	3.4	3.4	3.4	3.4	6.8	10.3	10.3	10.3	6.8
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	6.8	10.3	10.3	10.3	6.8
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):

	165°	170°	175°	180°
0°	834.6	834.6	834.6	834.6
2.5°	680.7	680.7	677.3	677.3
5°	574.7	574.7	571.2	571.2
7.5°	413.9	407.1	396.8	400.2
10°	318.1	311.3	304.4	311.3
12.5°	205.2	208.7	208.7	198.4
15°	167.6	181.3	191.6	191.6
17.5°	174.5	174.5	171.0	171.0
20°	147.1	160.8	174.5	174.5
22.5°	150.5	143.7	136.8	136.8
25°	143.7	153.9	160.8	160.8
27.5°	116.3	119.7	123.1	123.1
30°	133.4	140.2	143.7	143.7
32.5°	126.6	133.4	136.8	140.2
35°	130.0	136.8	140.2	140.2
37.5°	116.3	119.7	123.1	123.1
40°	92.4	95.8	99.2	99.2
42.5°	71.8	71.8	68.4	71.8
45°	47.9	47.9	44.5	47.9
47.5°	27.4	27.4	27.4	27.4
50°	17.1	17.1	17.1	17.1
52.5°	10.3	10.3	10.3	10.3
55°	6.8	6.8	6.8	6.8
57.5°	6.8	6.8	3.4	3.4
60°	3.4	3.4	3.4	3.4
62.5°	3.4	3.4	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°	3.4	3.4	0.0	0.0
77.5°	3.4	3.4	0.0	0.0
80°	3.4	3.4	0.0	0.0
82.5°	3.4	3.4	0.0	0.0
85°	3.4	3.4	3.4	0.0
87.5°	3.4	3.4	3.4	0.0
90°	0.0	0.0	0.0	0.0



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