

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: P559823

Luminaire Tested: **SDL-PA1-100-727-U-T4W**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P559823
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-PA1-100-727-U-T4W
Description: Springdale
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8583.9 lumens
Efficiency: N/A
Efficacy: 91.5 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: B2 - U0 - G3

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

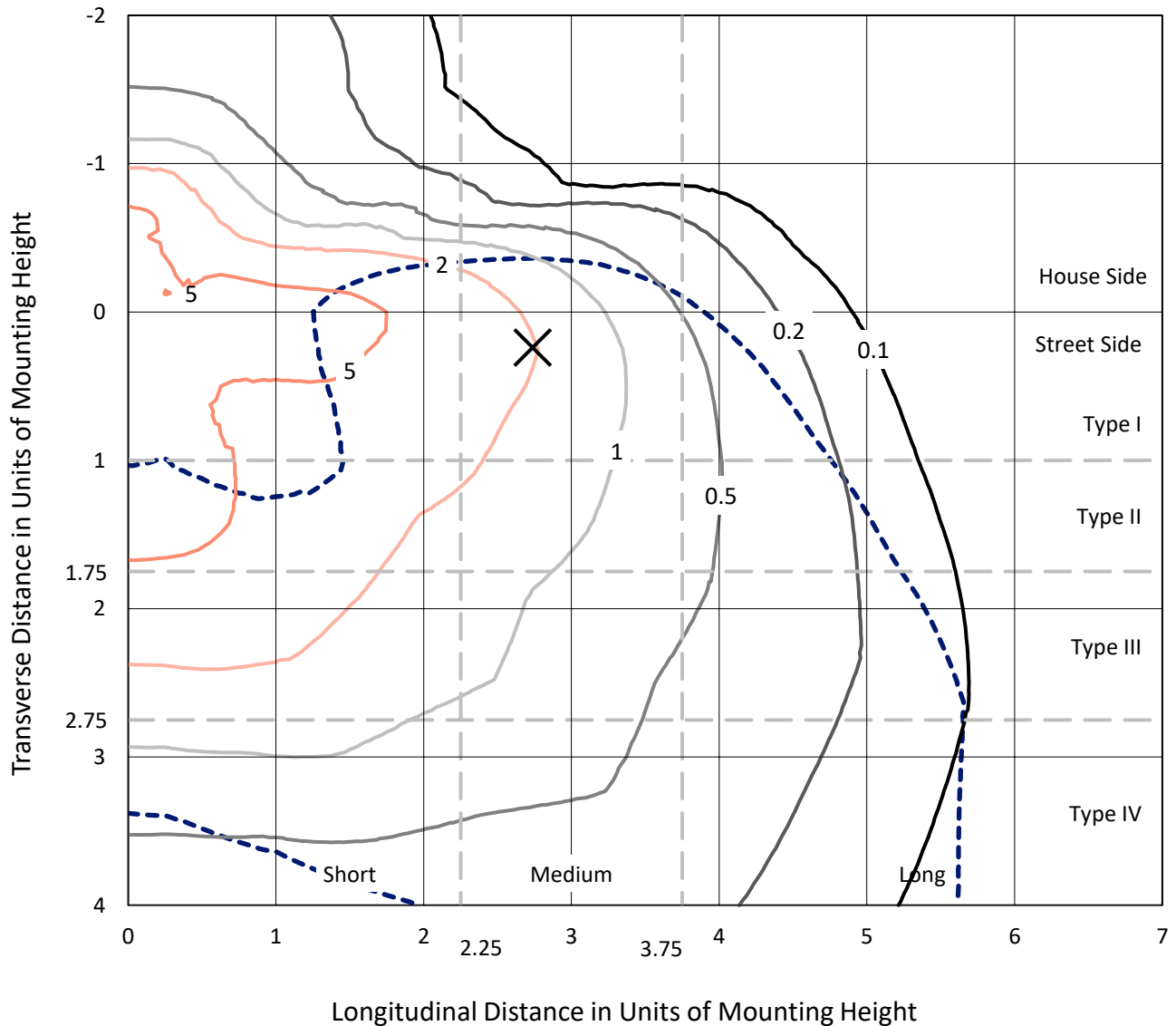


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Iso-Footcandle Lines of Horizontal Illumination

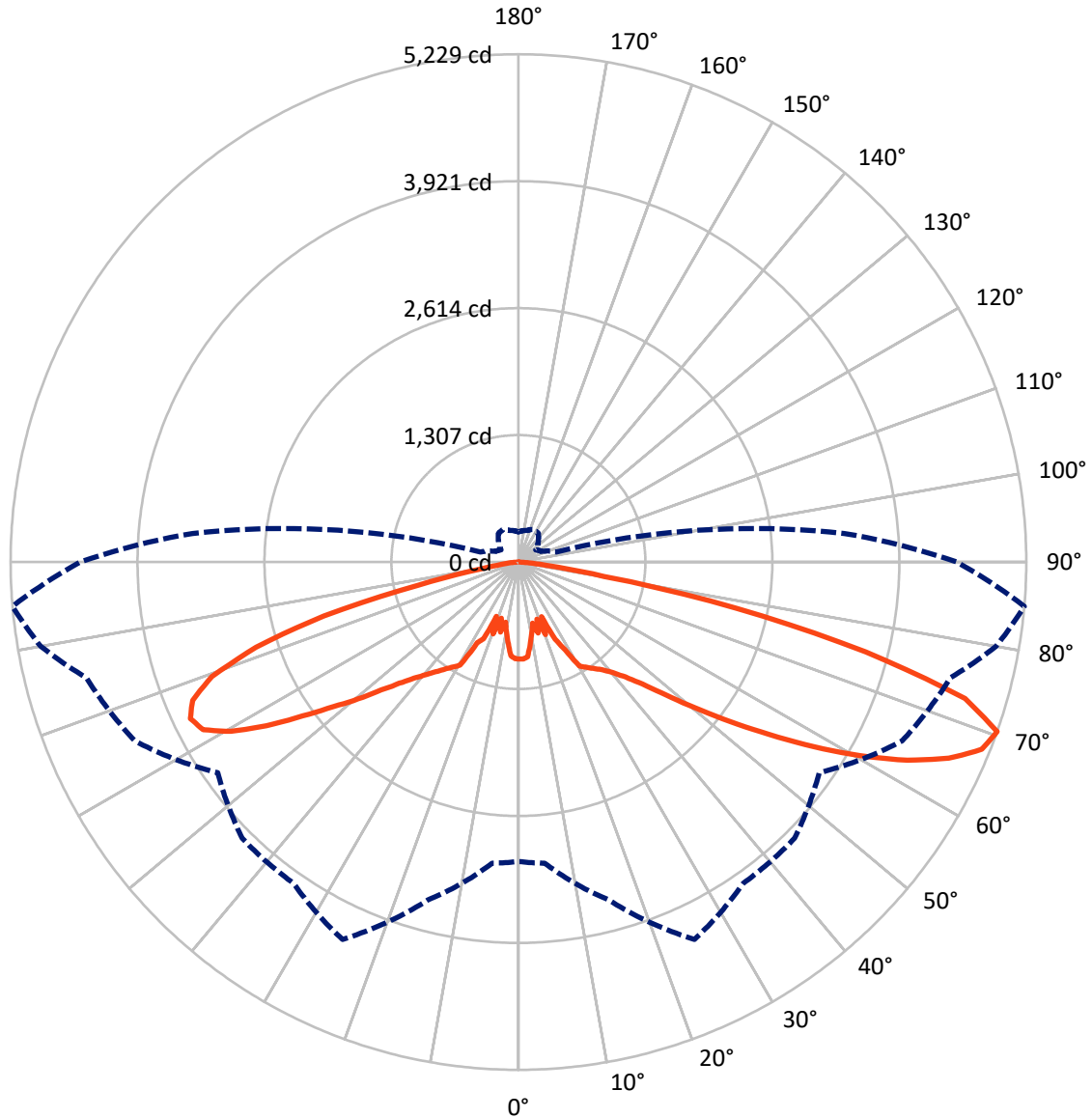
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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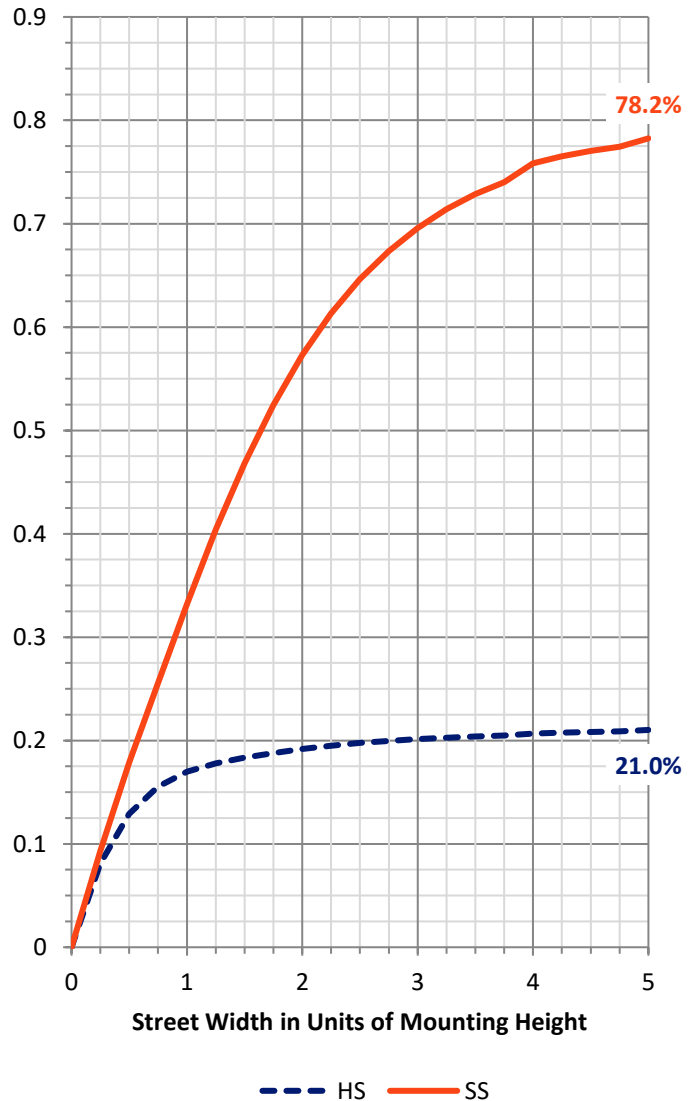
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1845.6	0.0	1845.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	6738.3	0.0	6738.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	8583.9	0.0	8583.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	1.0
10°-20°	208.9	2.4
20°-30°	365.2	4.3
30°-40°	643.3	7.5
40°-50°	970.5	11.3
50°-60°	1543.7	18.0
60°-70°	2263.6	26.4
70°-80°	2122.6	24.7
80°-90°	383.3	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°	8583.9	100.0
0°-180°	8583.9	100.0

Coefficient of Utilization



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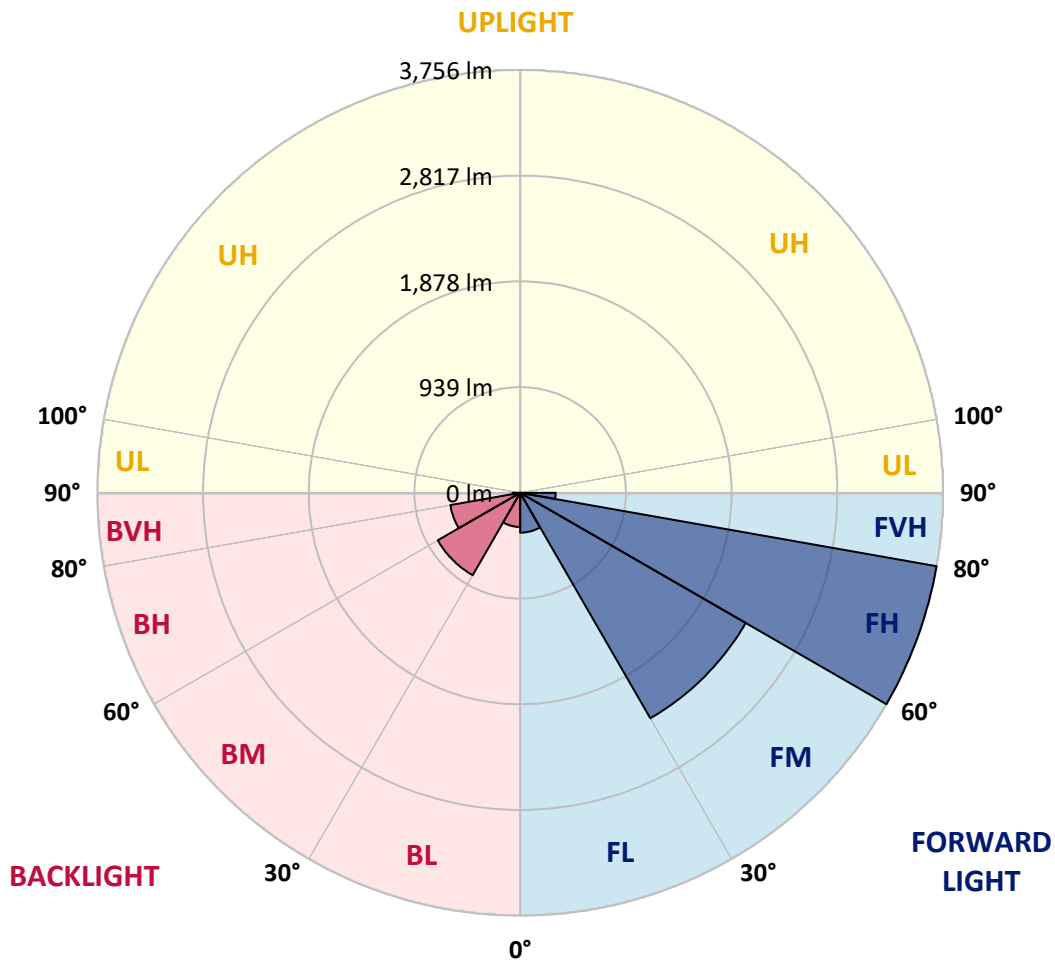
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	354.0	4.1			
FM	(30°-60°)	2312.5	26.9			
FH	(60°-80°)	3756.2	43.8			G2/5000
FVH	(80°-90°)	315.6	3.7			G3/500
BL	(0°-30°)	303.1	3.5	B1/500		
BM	(30°-60°)	844.9	9.8	B1/1000		
BH	(60°-80°)	630.0	7.3	B2/1000		G2/1000
BVH	(80°-90°)	67.7	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2
2.5°	906.3	944.3	963.3	982.3	988.7	995.0	995.0	991.8	991.8	991.8	998.2
5°	922.1	918.9	918.9	918.9	915.8	912.6	909.4	903.1	899.9	893.6	890.4
7.5°	846.1	909.4	912.6	915.8	915.8	912.6	918.9	925.3	918.9	909.4	896.8
10°	1004.5	1001.3	995.0	988.7	979.2	969.6	896.8	820.7	827.1	833.4	773.2
12.5°	871.4	931.6	957.0	982.3	985.5	985.5	934.8	880.9	811.2	741.5	713.0
15°	1064.7	1058.4	1045.7	1033.0	947.5	858.7	808.0	757.3	757.3	757.3	671.8
17.5°	896.8	893.6	950.6	1007.7	976.0	944.3	871.4	798.5	690.8	579.9	649.6
20°	1099.6	1099.6	1083.7	1067.9	922.1	773.2	782.7	789.0	792.2	792.2	760.5
22.5°	922.1	915.8	922.1	925.3	925.3	925.3	792.2	659.1	732.0	801.7	728.8
25°	1099.6	1102.7	1099.6	1096.4	963.3	827.1	849.2	871.4	770.0	665.4	735.2
27.5°	960.1	957.0	941.1	925.3	928.5	931.6	861.9	789.0	830.2	871.4	798.5
30°	1175.6	1178.8	1169.3	1156.6	1023.5	890.4	884.1	874.6	846.1	817.5	842.9
32.5°	1419.6	1419.6	1321.4	1223.2	1140.8	1055.2	985.5	915.8	944.3	972.8	941.1
35°	1549.5	1543.2	1511.5	1476.7	1324.6	1169.3	1074.2	976.0	985.5	991.8	991.8
37.5°	1780.9	1777.7	1733.3	1689.0	1483.0	1273.9	1150.3	1023.5	1042.5	1058.4	1036.2
40°	2069.2	2069.2	2034.4	1996.3	1733.3	1467.1	1292.9	1118.6	1115.4	1109.1	1083.7
42.5°	2348.1	2357.6	2335.4	2313.2	2005.8	1698.5	1470.3	1242.2	1213.6	1185.1	1159.8
45°	2531.9	2544.5	2563.6	2582.6	2278.4	1974.2	1708.0	1438.6	1384.8	1327.7	1283.4
47.5°	2718.8	2699.8	2725.2	2750.5	2490.7	2230.8	1939.3	1647.8	1559.0	1470.3	1422.8
50°	2893.1	2886.8	2896.3	2905.8	2693.5	2481.2	2180.1	1879.1	1771.4	1660.4	1606.6
52.5°	3121.3	3099.1	3086.4	3073.7	2893.1	2712.5	2427.3	2138.9	2012.2	1882.3	1818.9
55°	3339.9	3330.4	3311.4	3289.2	3133.9	2978.7	2677.6	2376.6	2243.5	2110.4	2037.5
57.5°	3564.9	3558.6	3555.4	3552.2	3416.0	3279.7	2972.3	2661.8	2509.7	2354.4	2294.2
60°	3777.2	3780.4	3805.7	3827.9	3723.3	3618.8	3308.2	2997.7	2804.4	2607.9	2547.7
62.5°	3903.9	3913.5	3976.8	4037.0	3980.0	3923.0	3602.9	3279.7	3076.9	2870.9	2829.7
65°	3742.3	3789.9	3973.7	4157.5	4157.5	4157.5	3865.9	3571.2	3393.8	3216.3	3181.5
67.5°	3381.1	3428.6	3691.6	3951.5	4087.7	4224.0	4033.9	3843.7	3723.3	3599.7	3555.4
70°	3083.2	3111.8	3358.9	3602.9	3945.1	4287.4	4163.8	4037.0	4030.7	4021.2	3900.8
72.5°	2832.9	2896.3	3099.1	3298.7	3770.9	4243.0	4239.8	4236.7	4366.6	4496.5	4265.2
75°	2265.7	2259.3	2449.5	2639.6	3172.0	3701.1	3999.0	4293.7	4667.6	5038.4	4683.5
77.5°	1010.8	1080.6	1261.2	1441.8	1920.3	2395.6	2969.2	3542.7	4366.6	5187.3	4826.1
80°	288.4	304.2	354.9	402.4	627.4	849.2	1451.3	2050.2	3086.4	4119.4	3875.4
82.5°	152.1	158.4	190.1	218.6	282.0	342.2	570.4	795.4	1685.8	2573.1	2351.2
85°	72.9	66.5	85.6	101.4	136.3	171.1	263.0	354.9	652.8	950.6	820.7
87.5°	15.8	15.8	19.0	19.0	28.5	38.0	57.0	76.1	72.9	66.5	79.2
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°	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2
2.5°	1001.3	1004.5	1007.7	1004.5	1001.3	998.2	998.2	995.0	995.0	991.8	985.5
5°	887.3	931.6	976.0	979.2	982.3	982.3	979.2	976.0	969.6	966.5	960.1
7.5°	884.1	868.2	852.4	855.6	858.7	861.9	861.9	852.4	849.2	823.9	798.5
10°	709.8	694.0	678.1	687.6	697.1	732.0	751.0	744.7	738.3	694.0	646.4
12.5°	684.5	678.1	671.8	624.3	576.7	617.9	646.4	643.3	633.8	592.6	551.4
15°	586.2	589.4	589.4	643.3	697.1	732.0	757.3	751.0	744.7	694.0	643.3
17.5°	716.1	681.3	643.3	633.8	624.3	640.1	617.9	583.1	605.2	598.9	592.6
20°	725.7	640.1	551.4	640.1	728.8	751.0	798.5	795.4	785.9	741.5	697.1
22.5°	655.9	706.6	754.2	706.6	659.1	627.4	611.6	605.2	602.1	614.7	624.3
25°	804.9	709.8	611.6	728.8	842.9	868.2	880.9	871.4	868.2	811.2	754.2
27.5°	722.5	773.2	823.9	861.9	899.9	931.6	1026.7	934.8	931.6	877.8	820.7
30°	865.1	918.9	972.8	1071.1	1169.3	1223.2	1242.2	1235.8	1220.0	1134.4	1048.9
32.5°	909.4	1017.2	1121.8	1166.1	1207.3	1264.3	1292.9	1289.7	1273.9	1172.5	1067.9
35°	991.8	1071.1	1150.3	1210.5	1267.5	1321.4	1346.7	1356.2	1337.2	1210.5	1080.6
37.5°	1014.0	1115.4	1216.8	1280.2	1343.6	1384.8	1406.9	1435.5	1413.3	1261.2	1105.9
40°	1058.4	1178.8	1296.0	1359.4	1419.6	1457.6	1495.7	1530.5	1502.0	1318.2	1131.3
42.5°	1131.3	1254.8	1375.3	1448.1	1517.9	1571.7	1616.1	1663.6	1609.7	1372.1	1131.3
45°	1239.0	1353.1	1467.1	1565.4	1660.4	1727.0	1790.4	1856.9	1749.2	1441.8	1131.3
47.5°	1375.3	1486.2	1593.9	1749.2	1904.4	1964.6	2040.7	2104.1	1929.8	1530.5	1131.3
50°	1549.5	1673.1	1796.7	2002.7	2205.5	2262.5	2357.6	2405.1	2170.6	1666.8	1159.8
52.5°	1752.3	1888.6	2021.7	2262.5	2503.3	2598.4	2725.2	2756.8	2414.6	1803.0	1188.3
55°	1964.6	2148.4	2329.1	2595.2	2858.2	2950.1	3130.8	3156.1	2728.3	1971.0	1210.5
57.5°	2234.0	2449.5	2661.8	2921.6	3178.3	3308.2	3590.2	3599.7	3092.7	2177.0	1258.0
60°	2487.5	2756.8	3023.0	3270.2	3517.4	3720.2	4046.5	4049.7	3435.0	2332.2	1226.3
62.5°	2788.5	3108.6	3425.5	3637.8	3850.1	4100.4	4493.3	4436.3	3675.8	2351.2	1026.7
65°	3143.4	3473.0	3802.5	3983.2	4160.6	4445.8	4870.4	4651.8	3742.3	2243.5	741.5
67.5°	3507.9	3815.2	4122.6	4265.2	4407.8	4769.0	5146.1	4677.1	3644.1	2081.9	516.5
70°	3780.4	4068.7	4357.1	4480.7	4604.3	4994.0	5228.5	4512.4	3368.4	1885.4	402.4
72.5°	4030.7	4303.2	4572.6	4635.9	4696.1	4895.8	4810.2	3976.8	2839.2	1587.6	332.7
75°	4328.6	4502.9	4674.0	4559.9	4445.8	4176.5	3691.6	2899.4	2078.7	1182.0	285.2
77.5°	4464.8	4423.6	4379.3	3989.5	3599.7	2877.3	2294.2	1676.3	1055.2	649.6	244.0
80°	3631.4	3466.7	3298.7	2645.9	1993.2	1362.6	893.6	567.2	386.6	291.5	196.5
82.5°	2126.3	1742.8	1359.4	998.2	636.9	446.8	291.5	231.3	180.6	171.1	158.4
85°	687.6	608.4	529.2	418.3	307.4	190.1	110.9	101.4	95.1	104.6	110.9
87.5°	91.9	91.9	88.7	66.5	41.2	22.2	12.7	9.5	9.5	12.7	12.7
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2
2.5°	985.5	982.3	979.2	976.0	972.8	966.5	941.1	915.8	906.3	893.6	884.1
5°	928.5	896.8	874.6	852.4	842.9	830.2	833.4	836.6	839.7	839.7	839.7
7.5°	804.9	811.2	814.4	814.4	823.9	830.2	836.6	839.7	827.1	814.4	798.5
10°	640.1	630.6	643.3	652.8	668.6	681.3	722.5	763.7	801.7	839.7	855.6
12.5°	583.1	614.7	589.4	564.0	614.7	662.3	719.3	776.4	811.2	842.9	814.4
15°	592.6	538.7	545.0	548.2	611.6	671.8	636.9	602.1	700.3	795.4	823.9
17.5°	583.1	573.6	608.4	640.1	579.9	519.7	605.2	687.6	732.0	776.4	763.7
20°	630.6	560.9	560.9	560.9	614.7	668.6	627.4	586.2	633.8	681.3	760.5
22.5°	652.8	678.1	627.4	573.6	608.4	643.3	643.3	640.1	694.0	744.7	732.0
25°	659.1	564.0	608.4	649.6	627.4	602.1	630.6	655.9	671.8	687.6	757.3
27.5°	754.2	687.6	636.9	583.1	624.3	665.4	655.9	646.4	659.1	671.8	687.6
30°	893.6	738.3	681.3	621.1	598.9	573.6	602.1	627.4	675.0	722.5	785.9
32.5°	934.8	798.5	706.6	611.6	608.4	602.1	611.6	617.9	671.8	722.5	811.2
35°	928.5	773.2	684.5	592.6	573.6	554.5	570.4	583.1	662.3	741.5	827.1
37.5°	922.1	735.2	643.3	551.4	538.7	522.9	538.7	554.5	614.7	675.0	754.2
40°	912.6	690.8	602.1	510.2	494.3	478.5	494.3	507.0	554.5	602.1	665.4
42.5°	890.4	646.4	557.7	465.8	453.1	437.3	450.0	462.6	503.8	545.0	583.1
45°	865.1	595.7	510.2	424.6	411.9	399.3	408.8	415.1	453.1	488.0	507.0
47.5°	836.6	541.9	462.6	383.4	370.7	358.1	367.6	373.9	402.4	431.0	437.3
50°	830.2	497.5	424.6	348.6	339.1	326.4	332.7	339.1	361.2	380.3	380.3
52.5°	817.5	443.6	383.4	320.0	313.7	304.2	307.4	310.5	326.4	342.2	339.1
55°	808.0	405.6	351.7	297.9	291.5	282.0	285.2	288.4	304.2	316.9	313.7
57.5°	817.5	373.9	326.4	275.7	269.3	263.0	269.3	275.7	291.5	307.4	307.4
60°	785.9	342.2	297.9	253.5	250.3	244.0	259.8	272.5	297.9	320.0	326.4
62.5°	671.8	313.7	275.7	237.7	240.8	240.8	269.3	294.7	329.6	361.2	367.6
65°	516.5	291.5	259.8	225.0	240.8	256.7	294.7	332.7	364.4	396.1	386.6
67.5°	396.1	275.7	250.3	221.8	256.7	288.4	323.2	358.1	373.9	386.6	370.7
70°	332.7	259.8	240.8	218.6	253.5	288.4	323.2	358.1	364.4	370.7	354.9
72.5°	291.5	247.2	228.2	209.1	237.7	266.2	307.4	345.4	351.7	354.9	339.1
75°	259.8	231.3	209.1	187.0	215.5	240.8	282.0	323.2	329.6	332.7	320.0
77.5°	228.2	212.3	187.0	161.6	190.1	218.6	256.7	294.7	304.2	313.7	297.9
80°	190.1	180.6	161.6	142.6	174.3	202.8	237.7	272.5	282.0	291.5	275.7
82.5°	152.1	145.8	133.1	120.4	152.1	183.8	218.6	250.3	259.8	266.2	247.2
85°	110.9	110.9	104.6	98.2	129.9	158.4	180.6	202.8	199.6	196.5	183.8
87.5°	15.8	15.8	22.2	28.5	38.0	44.4	57.0	66.5	69.7	69.7	53.9
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°	998.2	998.2	998.2	998.2
2.5°	874.6	874.6	871.4	877.8
5°	839.7	842.9	842.9	846.1
7.5°	782.7	766.8	747.8	751.0
10°	871.4	874.6	877.8	877.8
12.5°	782.7	770.0	754.2	757.3
15°	849.2	858.7	868.2	871.4
17.5°	747.8	744.7	741.5	738.3
20°	836.6	852.4	868.2	868.2
22.5°	719.3	719.3	719.3	722.5
25°	827.1	846.1	861.9	861.9
27.5°	700.3	744.7	789.0	823.9
30°	846.1	855.6	865.1	868.2
32.5°	896.8	944.3	988.7	998.2
35°	909.4	931.6	950.6	960.1
37.5°	833.4	852.4	871.4	884.1
40°	725.7	741.5	757.3	766.8
42.5°	617.9	621.1	624.3	640.1
45°	526.0	510.2	494.3	491.2
47.5°	440.5	418.3	396.1	392.9
50°	377.1	358.1	339.1	339.1
52.5°	332.7	320.0	307.4	307.4
55°	310.5	304.2	294.7	294.7
57.5°	307.4	304.2	301.0	301.0
60°	329.6	332.7	332.7	332.7
62.5°	370.7	373.9	373.9	373.9
65°	373.9	367.6	361.2	361.2
67.5°	354.9	345.4	335.9	329.6
70°	335.9	329.6	320.0	310.5
72.5°	320.0	313.7	304.2	294.7
75°	304.2	294.7	282.0	275.7
77.5°	282.0	275.7	266.2	259.8
80°	256.7	250.3	240.8	228.2
82.5°	228.2	231.3	231.3	199.6
85°	167.9	158.4	145.8	120.4
87.5°	34.9	31.7	25.4	22.2
90°	0.0	0.0	0.0	0.0

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