

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: P561222

Luminaire Tested: **SDL-PA1-90-727-U-T2U-HSS**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-6)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-90-727-U-T2U-HSS
Description: Springdale
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6178.4 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 92.4
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

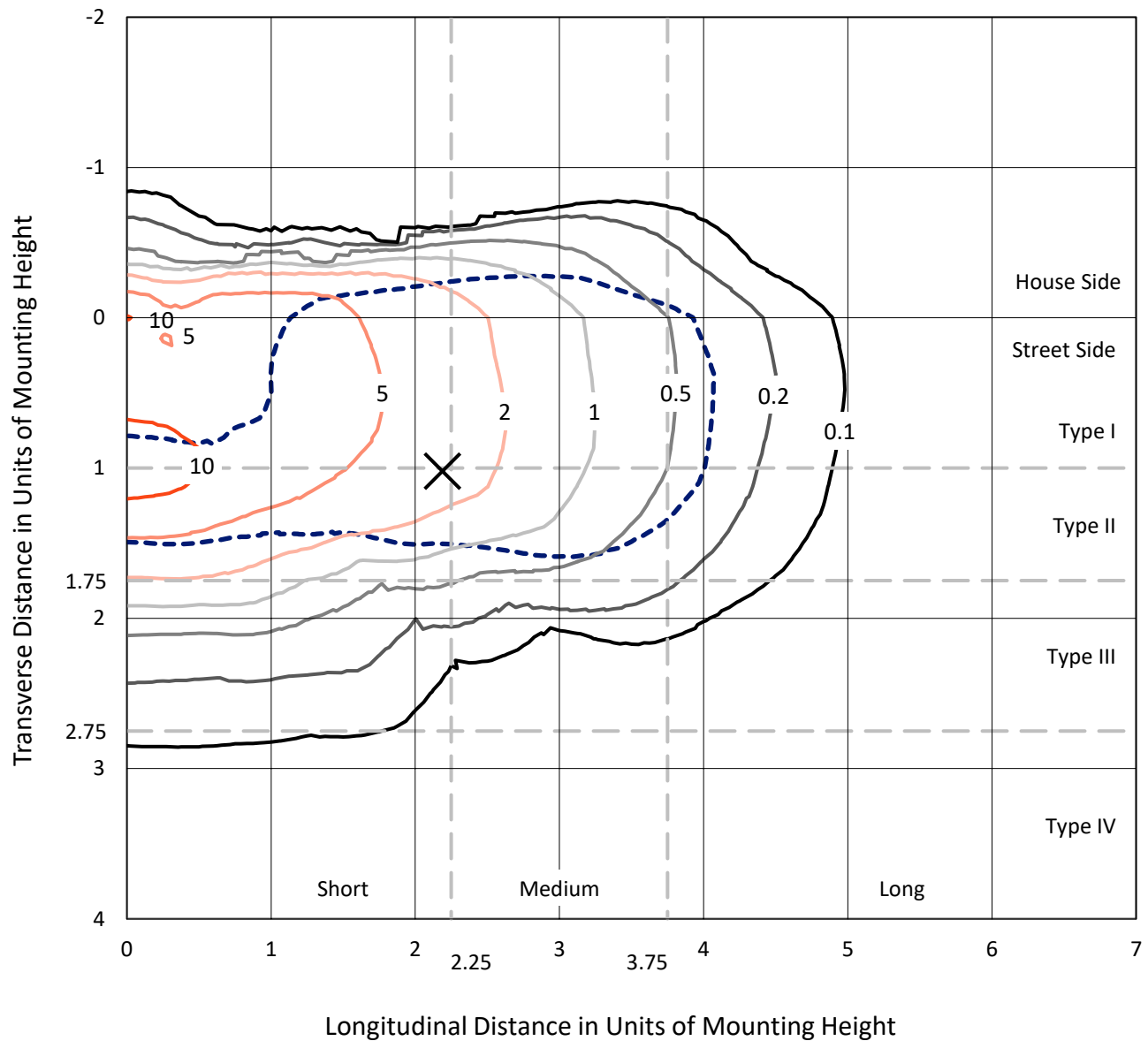


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

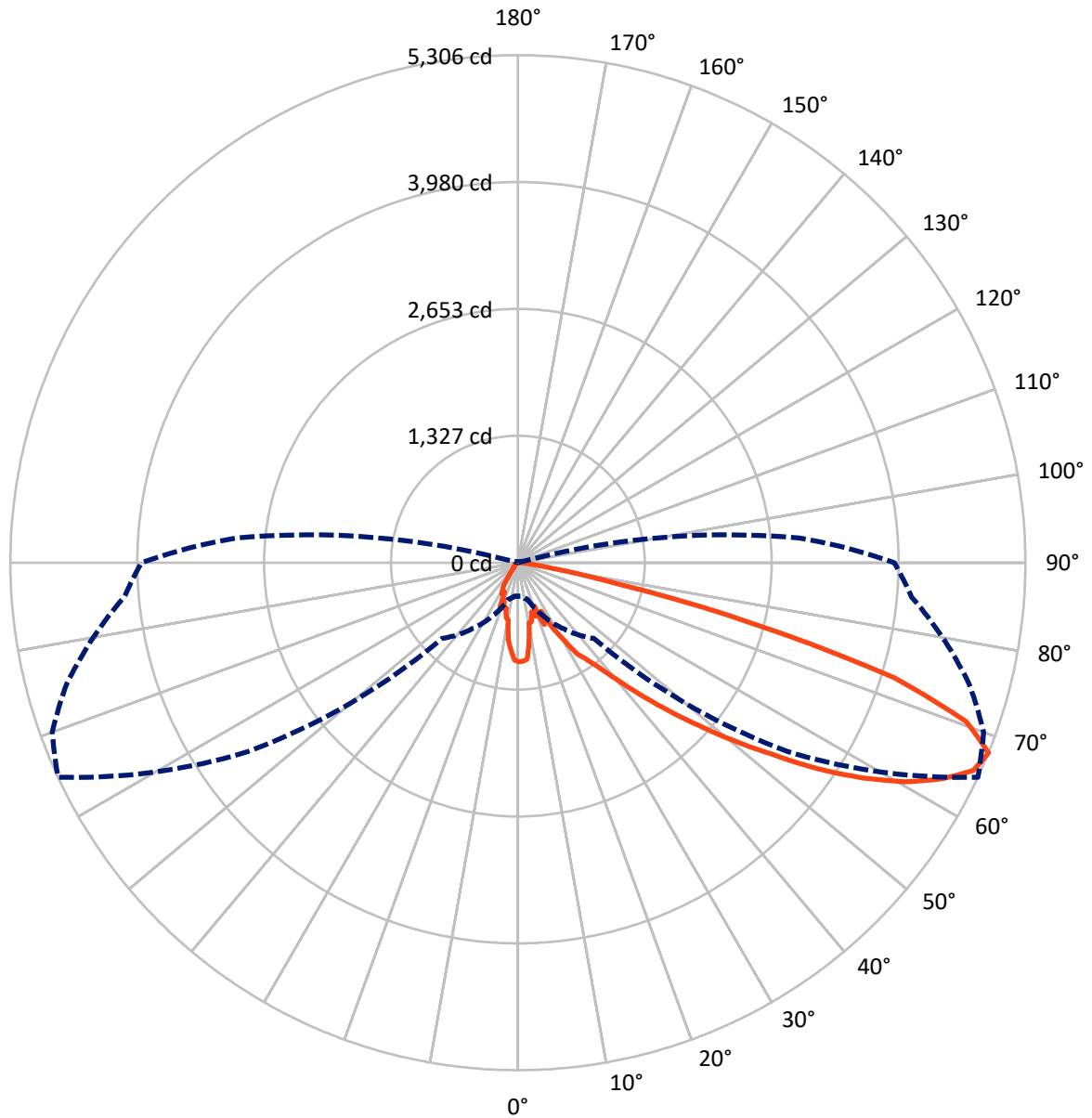


Based on 10 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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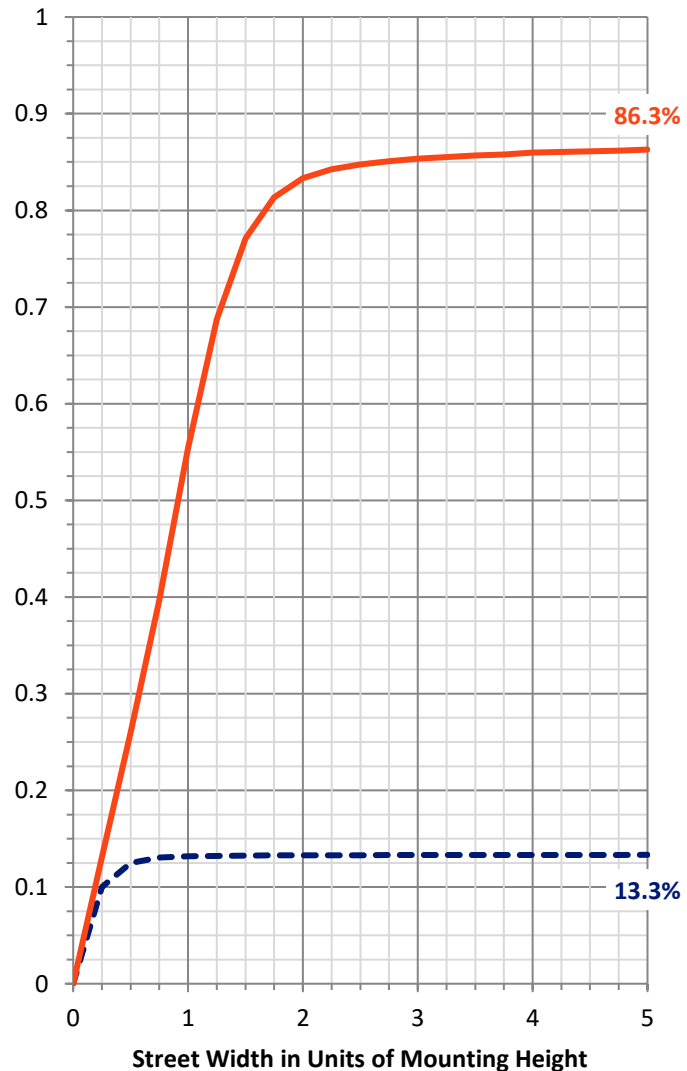
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	835.4	0.0	835.4
	% Fixture	13.5	0.0	13.5
Street Side	Lumens	5343.0	0.0	5343.0
	% Fixture	86.5	0.0	86.5
Total	Lumens	6178.4	0.0	6178.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	1.3
10°-20°	153.6	2.5
20°-30°	231.9	3.8
30°-40°	534.1	8.6
40°-50°	1171.7	19.0
50°-60°	1720.2	27.8
60°-70°	1494.1	24.2
70°-80°	740.8	12.0
80°-90°	52.6	0.9
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°	6178.4	100.0
0°-180°	6178.4	100.0



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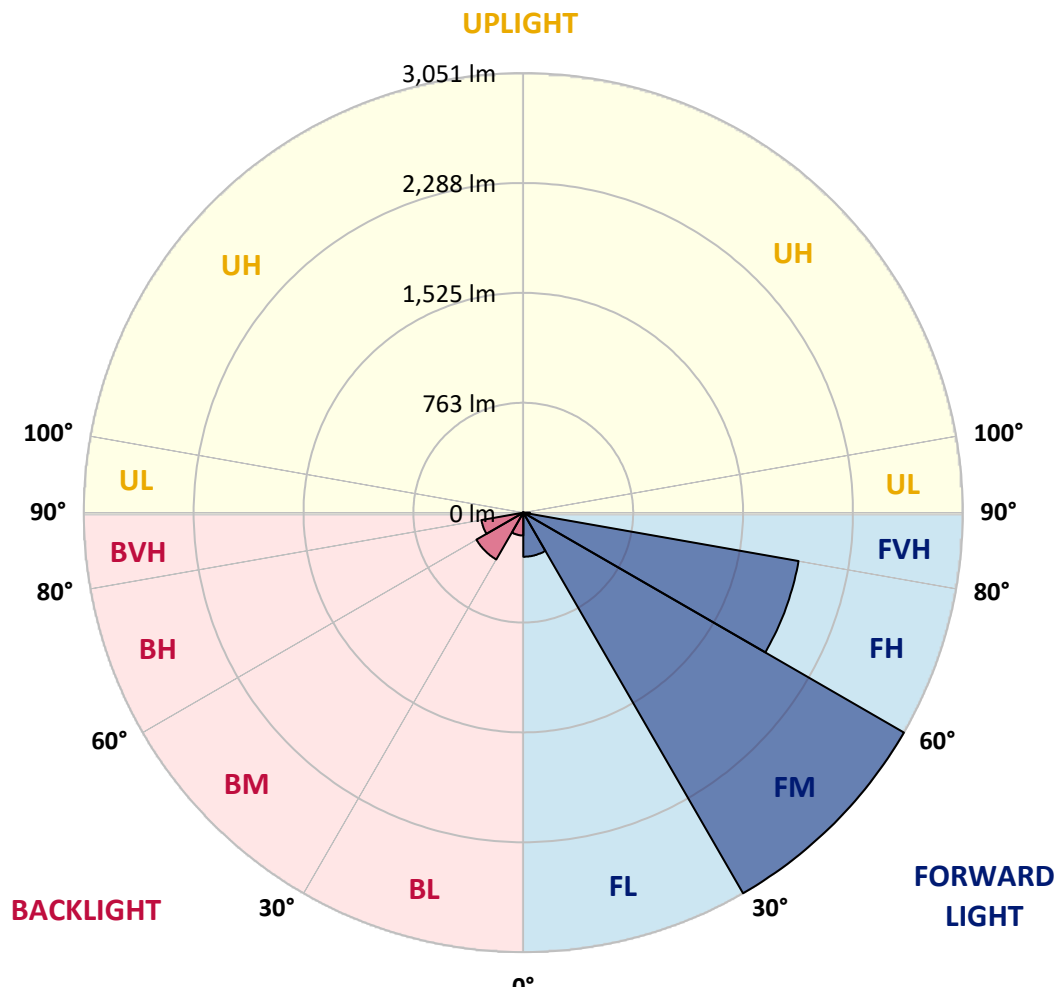
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	306.2	5.0			
FM	(30°-60°)	3050.8	49.4			
FH	(60°-80°)	1939.7	31.4			G2/5000
FVH	(80°-90°)	46.3	0.7			G1/100
BL	(0°-30°)	158.7	2.6	B1/500		
BM	(30°-60°)	375.2	6.1	B1/1000		
BH	(60°-80°)	295.1	4.8	B1/500		G1/500
BVH	(80°-90°)	6.3	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1034.4	1034.4	1034.4	1034.4	1034.4	1034.4	1034.4	1034.4	1034.4	1034.4	1034.4
2.5°	866.2	937.8	959.6	981.4	1000.1	1018.8	1021.9	1025.1	1031.3	1034.4	1037.5
5°	847.5	850.6	850.6	847.5	850.6	853.7	853.7	853.7	853.7	853.7	856.8
7.5°	679.2	760.2	785.1	807.0	819.4	828.8	835.0	838.1	841.2	844.3	847.5
10°	819.4	816.3	819.4	819.4	822.5	822.5	750.9	679.2	704.1	726.0	688.6
12.5°	651.2	716.6	744.6	772.7	791.4	807.0	775.8	741.5	676.1	607.6	610.7
15°	785.1	785.1	785.1	785.1	726.0	663.6	623.1	579.5	613.8	644.9	582.6
17.5°	632.5	632.5	688.6	744.6	744.6	741.5	701.0	657.4	570.2	482.9	560.8
20°	782.0	782.0	785.1	788.3	685.4	582.6	616.9	648.1	660.5	673.0	644.9
22.5°	638.7	638.7	648.1	654.3	691.7	729.1	629.4	529.7	610.7	691.7	635.6
25°	825.7	828.8	835.0	838.1	744.6	648.1	691.7	735.3	648.1	560.8	648.1
27.5°	747.8	735.3	735.3	732.2	763.3	791.4	729.1	666.8	722.8	778.9	713.5
30°	1050.0	1040.6	1028.2	1015.7	897.3	778.9	782.0	782.0	760.2	738.4	775.8
32.5°	1455.0	1439.4	1333.5	1227.6	1140.3	1053.1	962.7	872.4	903.5	931.6	912.9
35°	1953.5	1953.5	1853.8	1754.1	1557.8	1361.5	1208.9	1053.1	1040.6	1028.2	1046.9
37.5°	2545.5	2483.2	2364.8	2246.4	2003.4	1757.2	1523.6	1289.9	1261.8	1230.7	1199.5
40°	2984.8	2975.5	2885.1	2794.8	2495.7	2196.6	1922.4	1645.1	1554.7	1461.3	1392.7
42.5°	3442.8	3408.5	3336.9	3262.1	2959.9	2654.6	2361.7	2065.7	1941.1	1816.4	1694.9
45°	3773.1	3763.7	3701.4	3639.1	3393.0	3143.7	2838.4	2529.9	2448.9	2367.9	2140.5
47.5°	3978.7	3925.7	3900.8	3872.8	3660.9	3449.1	3190.4	2928.7	2916.3	2900.7	2614.1
50°	3916.4	3869.7	3875.9	3882.1	3779.3	3676.5	3480.2	3280.8	3315.1	3349.3	3112.6
52.5°	3586.1	3545.6	3601.7	3654.7	3651.6	3648.5	3576.8	3502.0	3626.6	3748.2	3586.1
55°	2925.6	2953.7	3065.8	3178.0	3252.8	3324.4	3427.2	3526.9	3763.7	3997.4	3966.3
57.5°	2293.1	2355.4	2470.7	2582.9	2704.4	2822.8	3040.9	3259.0	3657.8	4053.5	4190.6
60°	1539.1	1579.6	1782.2	1981.6	2093.7	2205.9	2442.7	2676.4	3218.5	3757.5	4115.8
62.5°	956.5	978.3	1093.6	1208.9	1436.3	1663.8	1782.2	1897.4	2483.2	3065.8	3729.5
65°	588.9	582.6	629.4	673.0	897.3	1118.5	1196.4	1271.2	1660.7	2047.0	3078.3
67.5°	352.1	349.0	373.9	398.8	501.6	604.4	726.0	847.5	984.6	1118.5	2280.7
70°	286.6	292.9	302.2	311.6	339.6	367.6	479.8	592.0	588.9	585.7	1370.9
72.5°	239.9	246.1	264.8	280.4	302.2	320.9	386.3	448.7	420.6	392.6	654.3
75°	177.6	180.7	205.6	227.4	261.7	292.9	308.5	320.9	308.5	296.0	330.3
77.5°	118.4	118.4	140.2	162.0	196.3	230.6	249.3	267.9	246.1	224.3	233.7
80°	74.8	74.8	87.2	96.6	130.9	165.1	186.9	208.8	190.1	168.2	165.1
82.5°	43.6	46.7	53.0	59.2	81.0	102.8	118.4	134.0	155.8	174.5	140.2
85°	18.7	21.8	28.0	31.2	43.6	53.0	62.3	71.7	90.4	109.0	90.4
87.5°	3.1	3.1	6.2	9.3	12.5	15.6	15.6	15.6	15.6	12.5	15.6
90°	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	6.2

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1034.4	1034.4	1034.4	1034.4	1034.4	1034.4	1034.4	1034.4	1034.4	1034.4	1034.4
2.5°	1037.5	1034.4	1031.3	1031.3	1031.3	1028.2	1025.1	1025.1	1025.1	1021.9	1018.8
5°	856.8	934.7	1012.6	1015.7	1021.9	1018.8	1015.7	1012.6	1009.5	1006.4	1000.1
7.5°	847.5	841.2	835.0	813.2	888.0	888.0	884.9	884.9	878.6	853.7	828.8
10°	648.1	644.9	638.7	648.1	663.6	716.6	766.5	763.3	754.0	694.8	635.6
12.5°	613.8	623.1	632.5	601.3	542.1	592.0	641.8	635.6	629.4	576.4	520.3
15°	520.3	526.5	532.8	582.6	673.0	719.7	763.3	757.1	750.9	688.6	623.1
17.5°	638.7	613.8	588.9	623.1	592.0	613.8	635.6	610.7	592.0	567.1	542.1
20°	613.8	548.4	482.9	582.6	697.9	735.3	772.7	763.3	744.6	685.4	623.1
22.5°	576.4	641.8	704.1	673.0	616.9	582.6	548.4	532.8	520.3	523.4	526.5
25°	732.2	648.1	560.8	710.4	800.7	813.2	822.5	794.5	763.3	697.9	629.4
27.5°	644.9	707.3	766.5	825.7	856.8	866.2	872.4	912.9	847.5	760.2	673.0
30°	813.2	866.2	919.1	1050.0	1155.9	1174.6	1193.3	1146.6	1093.6	987.7	881.7
32.5°	894.2	1015.7	1134.1	1196.4	1240.0	1255.6	1271.2	1208.9	1149.7	1012.6	872.4
35°	1062.4	1152.8	1243.2	1314.8	1398.9	1402.1	1405.2	1336.6	1261.8	1062.4	863.0
37.5°	1165.3	1283.7	1398.9	1479.9	1610.8	1601.5	1592.1	1511.1	1420.7	1140.3	859.9
40°	1321.0	1473.7	1623.3	1701.2	1860.1	1832.0	1804.0	1710.5	1610.8	1224.5	838.1
42.5°	1573.4	1735.4	1897.4	1962.9	2137.4	2106.2	2071.9	1947.3	1819.6	1293.0	766.5
45°	1909.9	2056.3	2202.8	2318.1	2455.2	2405.3	2355.4	2221.5	2034.5	1352.2	669.9
47.5°	2324.3	2433.3	2542.4	2769.8	2869.5	2769.8	2667.0	2505.0	2268.2	1402.1	535.9
50°	2875.8	2900.7	2922.5	3206.0	3305.7	3153.1	3000.4	2791.6	2508.1	1458.1	405.0
52.5°	3421.0	3374.3	3324.4	3629.8	3667.1	3464.6	3259.0	3040.9	2685.7	1489.3	289.8
55°	3935.1	3869.7	3801.1	4019.2	3994.3	3726.3	3458.4	3193.6	2794.8	1498.6	202.5
57.5°	4327.7	4287.2	4243.5	4343.2	4249.8	3935.1	3620.4	3355.6	2875.8	1514.2	149.6
60°	4471.0	4561.3	4651.7	4639.2	4467.9	4134.5	3801.1	3520.7	2925.6	1520.4	112.2
62.5°	4393.1	4686.0	4975.7	4857.3	4648.6	4296.5	3941.3	3670.3	2947.4	1517.3	87.2
65°	4109.6	4673.5	5234.3	5038.0	4776.3	4424.3	4072.2	3829.2	2972.4	1520.4	68.5
67.5°	3439.7	4374.4	5306.0	5181.4	4882.3	4508.4	4131.4	3935.1	2959.9	1508.0	56.1
70°	2152.9	3561.2	4969.5	5066.1	4882.3	4471.0	4059.7	3903.9	2847.7	1445.7	43.6
72.5°	912.9	2514.3	4115.8	4536.4	4664.2	4265.4	3866.6	3673.4	2607.8	1321.0	34.3
75°	361.4	1445.7	2529.9	3196.7	3589.3	3421.0	3249.6	2991.0	1710.5	869.3	24.9
77.5°	243.0	660.5	1078.0	1570.3	1872.5	1937.9	2003.4	1707.4	682.3	352.1	18.7
80°	162.0	264.8	367.6	563.9	673.0	635.6	595.1	489.2	208.8	112.2	15.6
82.5°	102.8	137.1	171.4	193.2	199.4	143.3	87.2	71.7	24.9	18.7	9.3
85°	68.5	81.0	93.5	96.6	96.6	68.5	37.4	18.7	9.3	9.3	6.2
87.5°	18.7	21.8	21.8	21.8	15.6	12.5	9.3	6.2	6.2	6.2	6.2
90°	9.3	12.5	12.5	12.5	9.3	9.3	6.2	6.2	6.2	6.2	6.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1034.4	1034.4	1034.4	1034.4	1034.4	1034.4	1034.4	1034.4	1034.4	1034.4	1034.4
2.5°	1018.8	1018.8	1015.7	1012.6	1012.6	1009.5	978.3	944.0	912.9	878.6	875.5
5°	959.6	916.0	875.5	835.0	828.8	819.4	819.4	816.3	816.3	813.2	813.2
7.5°	822.5	816.3	810.1	803.8	800.7	794.5	791.4	785.1	782.0	775.8	741.5
10°	623.1	607.6	607.6	604.4	610.7	616.9	613.8	607.6	648.1	688.6	685.4
12.5°	554.6	585.7	557.7	526.5	535.9	542.1	551.5	560.8	557.7	551.5	504.7
15°	557.7	489.2	467.4	442.4	454.9	464.2	383.2	299.1	283.5	267.9	249.3
17.5°	520.3	498.5	482.9	464.2	355.2	243.0	218.1	193.2	171.4	146.4	143.3
20°	526.5	426.8	398.8	367.6	283.5	199.4	152.7	105.9	93.5	81.0	93.5
22.5°	514.1	498.5	364.5	230.6	171.4	112.2	93.5	71.7	77.9	84.1	84.1
25°	482.9	336.5	261.7	186.9	130.9	71.7	74.8	74.8	68.5	59.2	65.4
27.5°	523.4	370.8	236.8	99.7	87.2	71.7	65.4	56.1	56.1	56.1	53.0
30°	604.4	324.0	202.5	81.0	68.5	56.1	53.0	49.9	46.7	40.5	43.6
32.5°	573.3	274.2	171.4	68.5	59.2	49.9	43.6	37.4	37.4	37.4	37.4
35°	520.3	174.5	118.4	59.2	49.9	40.5	37.4	31.2	31.2	31.2	31.2
37.5°	486.0	112.2	81.0	46.7	40.5	34.3	31.2	24.9	24.9	24.9	28.0
40°	458.0	77.9	59.2	40.5	34.3	24.9	21.8	18.7	21.8	21.8	21.8
42.5°	417.5	65.4	49.9	34.3	28.0	21.8	18.7	15.6	18.7	18.7	18.7
45°	364.5	59.2	43.6	28.0	24.9	18.7	15.6	12.5	15.6	15.6	15.6
47.5°	292.9	49.9	37.4	24.9	21.8	15.6	15.6	12.5	12.5	12.5	12.5
50°	227.4	46.7	34.3	21.8	18.7	12.5	12.5	9.3	12.5	12.5	12.5
52.5°	165.1	40.5	31.2	18.7	15.6	9.3	9.3	9.3	9.3	9.3	9.3
55°	118.4	34.3	24.9	15.6	12.5	9.3	9.3	6.2	9.3	9.3	9.3
57.5°	90.4	31.2	21.8	12.5	9.3	6.2	6.2	6.2	6.2	6.2	6.2
60°	71.7	28.0	21.8	12.5	9.3	6.2	6.2	3.1	6.2	6.2	6.2
62.5°	56.1	21.8	18.7	12.5	9.3	6.2	6.2	3.1	6.2	6.2	6.2
65°	43.6	18.7	15.6	9.3	6.2	3.1	3.1	3.1	6.2	6.2	6.2
67.5°	37.4	15.6	12.5	9.3	6.2	3.1	6.2	6.2	6.2	6.2	6.2
70°	31.2	15.6	12.5	9.3	6.2	3.1	6.2	6.2	9.3	9.3	6.2
72.5°	24.9	12.5	9.3	6.2	6.2	3.1	6.2	6.2	9.3	9.3	6.2
75°	18.7	9.3	9.3	6.2	6.2	3.1	6.2	9.3	9.3	9.3	6.2
77.5°	15.6	9.3	9.3	6.2	6.2	3.1	6.2	9.3	9.3	9.3	9.3
80°	12.5	6.2	6.2	6.2	3.1	0.0	6.2	12.5	12.5	9.3	9.3
82.5°	9.3	6.2	6.2	6.2	3.1	0.0	6.2	12.5	12.5	9.3	9.3
85°	6.2	6.2	6.2	6.2	6.2	3.1	9.3	12.5	12.5	9.3	9.3
87.5°	6.2	6.2	6.2	6.2	6.2	3.1	6.2	9.3	9.3	9.3	9.3
90°	6.2	6.2	9.3	9.3	6.2	3.1	6.2	9.3	9.3	9.3	9.3



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1034.4	1034.4	1034.4	1034.4
2.5°	869.3	875.5	878.6	872.4
5°	810.1	810.1	807.0	816.3
7.5°	704.1	685.4	663.6	648.1
10°	679.2	663.6	648.1	651.2
12.5°	454.9	408.2	361.4	377.0
15°	230.6	218.1	205.6	205.6
17.5°	137.1	124.6	109.0	112.2
20°	102.8	102.8	102.8	102.8
22.5°	81.0	77.9	71.7	68.5
25°	68.5	68.5	68.5	68.5
27.5°	49.9	49.9	46.7	43.6
30°	43.6	43.6	43.6	40.5
32.5°	34.3	37.4	37.4	37.4
35°	31.2	31.2	31.2	31.2
37.5°	28.0	28.0	24.9	24.9
40°	21.8	21.8	21.8	21.8
42.5°	18.7	18.7	18.7	18.7
45°	15.6	15.6	15.6	15.6
47.5°	12.5	12.5	12.5	12.5
50°	12.5	12.5	9.3	9.3
52.5°	9.3	9.3	6.2	6.2
55°	6.2	6.2	6.2	6.2
57.5°	6.2	6.2	3.1	3.1
60°	6.2	6.2	3.1	3.1
62.5°	3.1	3.1	3.1	3.1
65°	3.1	3.1	0.0	0.0
67.5°	3.1	3.1	0.0	0.0
70°	3.1	3.1	0.0	0.0
72.5°	3.1	3.1	0.0	0.0
75°	3.1	3.1	0.0	0.0
77.5°	6.2	3.1	0.0	0.0
80°	6.2	6.2	3.1	0.0
82.5°	6.2	6.2	3.1	0.0
85°	6.2	6.2	3.1	0.0
87.5°	6.2	6.2	3.1	0.0
90°	6.2	6.2	3.1	0.0



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