

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: P559929

Luminaire Tested: **SDL-PA1-100-827-U-T3**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P559929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-100-827-U-T3
Description: Springdale
(1) 80 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7556.3 lumens
Efficiency: N/A
Efficacy: 80.6 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: B2 - 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

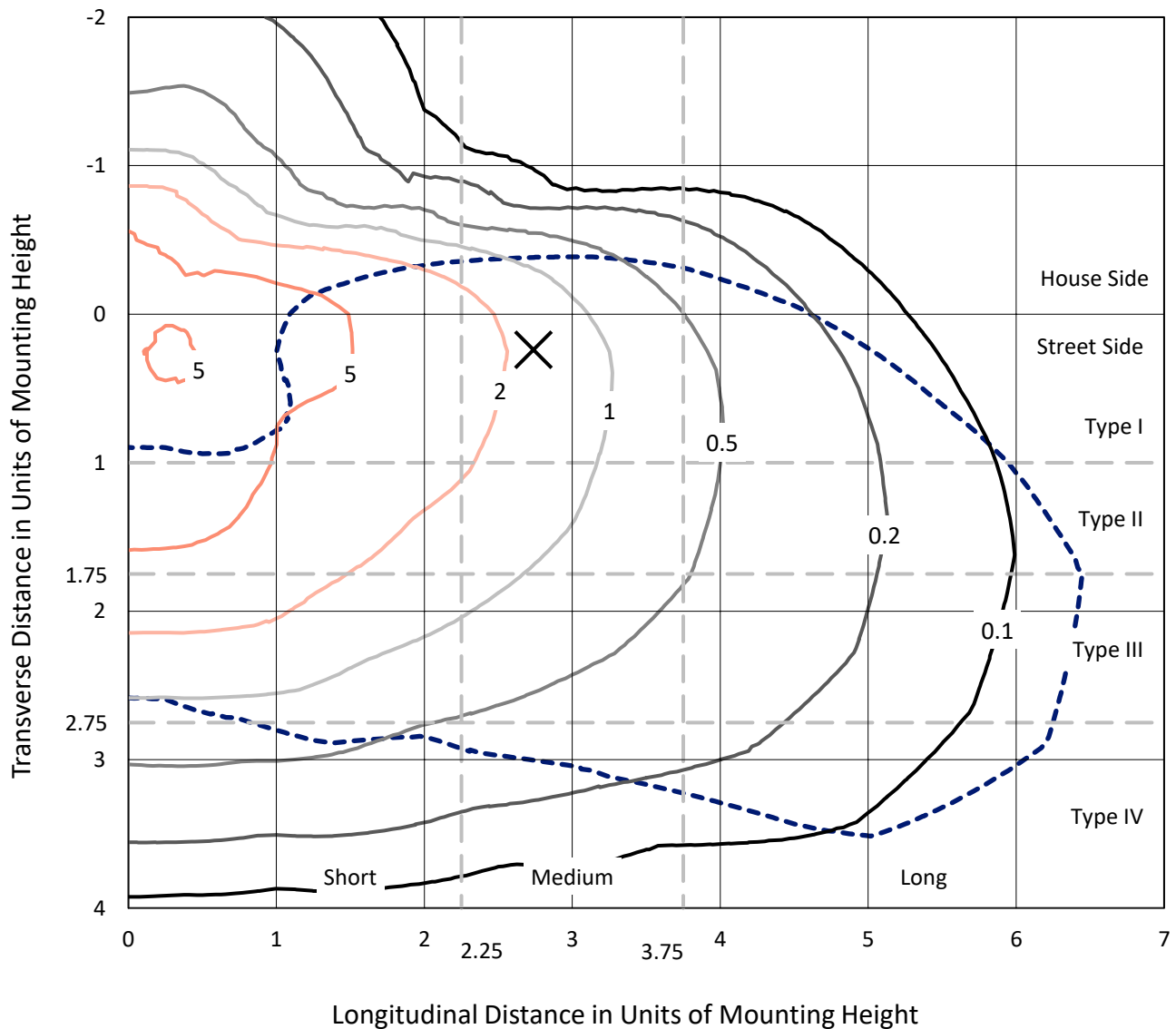


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

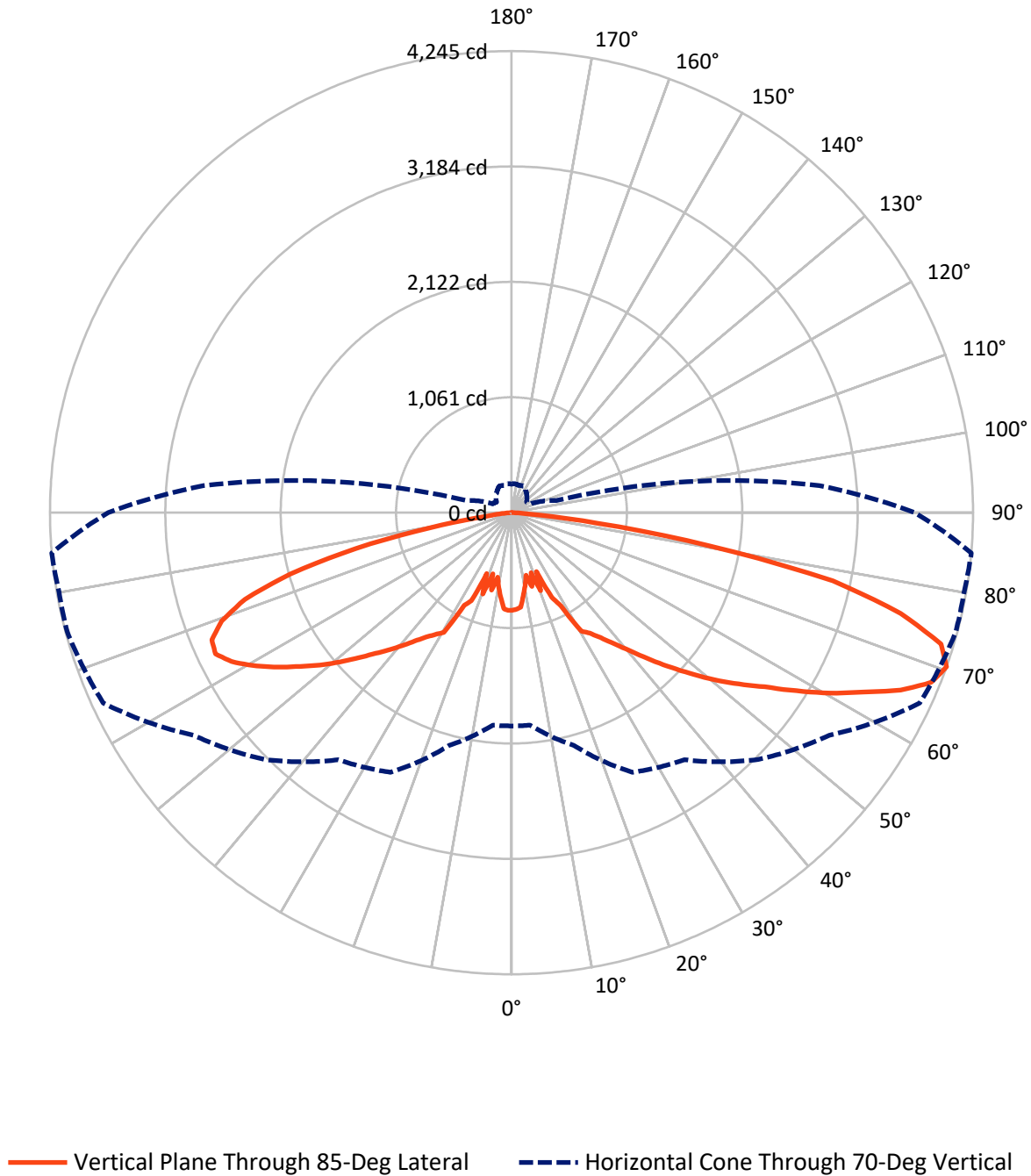


Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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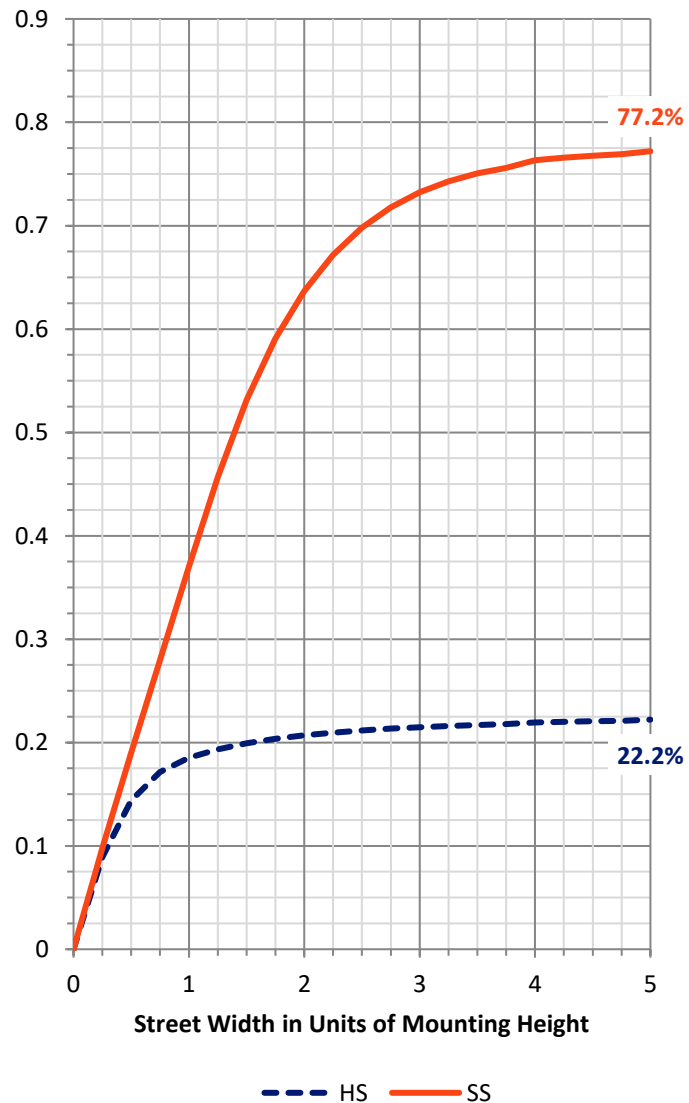
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1708.5	0.0	1708.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	5847.8	0.0	5847.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	7556.3	0.0	7556.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	1.0
10°-20°	182.5	2.4
20°-30°	333.5	4.4
30°-40°	629.7	8.3
40°-50°	1025.8	13.6
50°-60°	1582.5	20.9
60°-70°	1939.8	25.7
70°-80°	1519.1	20.1
80°-90°	270.5	3.6
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°	7556.3	100.0
0°-180°	7556.3	100.0

Coefficient of Utilization



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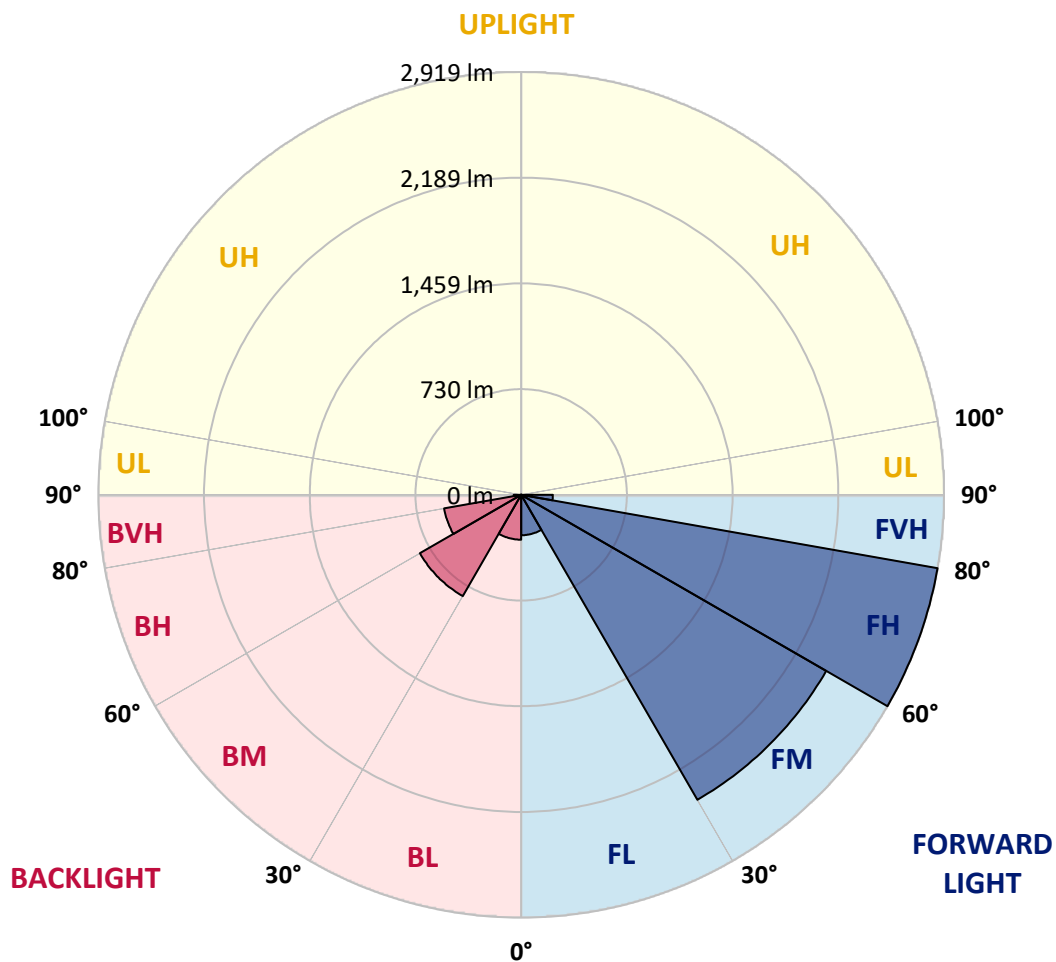
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	279.0	3.7			
FM	(30°-60°)	2431.0	32.2			
FH	(60°-80°)	2918.7	38.6			G2/5000
FVH	(80°-90°)	219.1	2.9			G2/225
BL	(0°-30°)	309.9	4.1	B1/500		
BM	(30°-60°)	807.1	10.7	B1/1000		
BH	(60°-80°)	540.1	7.1	B2/1000		G2/1000
BVH	(80°-90°)	51.4	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	897.6	897.6	897.6	897.6	897.6	897.6	897.6	897.6	897.6	897.6	897.6
2.5°	740.2	806.4	806.4	806.4	820.2	831.3	836.8	839.6	850.6	858.9	864.4
5°	690.4	693.2	693.2	693.2	696.0	698.7	701.5	704.3	709.8	712.5	720.8
7.5°	580.0	591.0	613.1	632.4	646.3	660.1	671.1	679.4	684.9	690.4	693.2
10°	646.3	646.3	646.3	646.3	646.3	646.3	613.1	580.0	582.7	582.7	566.2
12.5°	541.3	557.9	582.7	604.8	624.2	640.7	618.6	596.5	555.1	513.7	513.7
15°	626.9	626.9	624.2	621.4	585.5	549.6	516.5	483.3	505.4	527.5	488.8
17.5°	538.5	541.3	574.5	604.8	599.3	591.0	560.6	527.5	475.0	419.8	475.0
20°	690.4	682.2	665.6	649.0	571.7	494.4	508.2	522.0	535.8	546.8	546.8
22.5°	635.2	640.7	651.8	662.8	654.5	643.5	563.4	483.3	530.3	577.2	535.8
25°	870.0	870.0	836.8	803.7	720.8	635.2	649.0	660.1	580.0	497.1	566.2
27.5°	803.7	798.2	784.3	767.8	784.3	798.2	726.3	651.8	673.9	696.0	638.0
30°	1068.8	1068.8	1055.0	1041.2	922.4	800.9	792.6	781.6	734.6	684.9	718.1
32.5°	1281.5	1278.7	1215.2	1151.7	1085.4	1016.3	944.5	870.0	864.4	858.9	853.4
35°	1535.6	1535.6	1499.6	1463.7	1317.4	1168.2	1082.6	997.0	972.1	947.3	966.6
37.5°	1679.2	1698.5	1684.7	1668.1	1507.9	1345.0	1226.2	1104.7	1079.9	1055.0	1063.3
40°	1878.0	1872.5	1869.7	1864.2	1679.2	1494.1	1367.1	1237.3	1220.7	1204.1	1204.1
42.5°	2179.0	2148.7	2115.5	2079.6	1891.8	1704.0	1563.2	1419.6	1389.2	1356.0	1358.8
45°	2593.3	2560.2	2482.8	2402.8	2212.2	2021.6	1833.8	1646.0	1593.5	1538.3	1532.8
47.5°	2847.4	2811.5	2772.8	2731.4	2527.0	2322.7	2129.3	1933.2	1855.9	1778.6	1748.2
50°	3109.8	3076.6	3046.2	3015.9	2836.4	2656.8	2463.5	2270.2	2148.7	2027.1	1974.7
52.5°	3358.3	3297.6	3267.2	3236.8	3084.9	2930.3	2728.6	2527.0	2435.9	2344.8	2231.5
55°	3479.8	3405.3	3394.2	3380.4	3267.2	3151.2	2957.9	2764.5	2662.4	2557.4	2444.2
57.5°	3308.6	3314.1	3374.9	3435.7	3372.1	3308.6	3126.3	2944.1	2841.9	2739.7	2654.1
60°	3154.0	3195.4	3270.0	3344.5	3350.0	3352.8	3256.1	3159.5	3046.2	2933.0	2866.7
62.5°	2941.3	2971.7	3087.7	3200.9	3286.5	3369.4	3270.0	3170.5	3131.9	3090.4	3049.0
65°	2654.1	2662.4	2794.9	2924.7	3079.4	3231.3	3154.0	3076.6	3142.9	3206.4	3212.0
67.5°	2303.3	2328.2	2458.0	2587.8	2775.6	2960.6	2957.9	2955.1	3096.0	3234.0	3330.7
70°	1960.9	1960.9	2087.9	2215.0	2424.8	2634.7	2703.8	2772.8	2991.0	3209.2	3388.7
72.5°	1477.6	1546.6	1612.9	1679.2	1913.9	2145.9	2297.8	2449.7	2775.6	3098.7	3372.1
75°	814.7	820.2	878.2	936.2	1171.0	1405.7	1635.0	1864.2	2300.6	2736.9	3167.8
77.5°	267.9	259.6	292.7	323.1	461.2	596.5	789.9	983.2	1463.7	1944.3	2637.5
80°	149.1	151.9	162.9	174.0	218.2	259.6	353.5	447.4	651.8	853.4	1676.4
82.5°	99.4	102.2	113.2	124.3	143.6	162.9	215.4	265.1	284.5	301.0	756.7
85°	63.5	66.3	71.8	77.3	82.9	85.6	121.5	157.4	143.6	129.8	226.5
87.5°	13.8	13.8	16.6	16.6	19.3	22.1	27.6	33.1	30.4	24.9	33.1
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°	897.6	897.6	897.6	897.6	897.6	897.6	897.6	897.6	897.6	897.6	897.6
2.5°	867.2	872.7	875.5	878.2	881.0	886.5	889.3	892.1	897.6	900.3	900.3
5°	729.1	778.8	825.8	842.3	858.9	867.2	872.7	881.0	886.5	892.1	897.6
7.5°	696.0	698.7	701.5	720.8	740.2	756.7	773.3	778.8	792.6	784.3	773.3
10°	546.8	549.6	549.6	568.9	588.3	646.3	684.9	693.2	701.5	668.4	632.4
12.5°	510.9	524.7	538.5	530.3	522.0	563.4	591.0	602.1	607.6	585.5	563.4
15°	447.4	461.2	472.3	535.8	599.3	654.5	704.3	718.1	734.6	698.7	660.1
17.5°	530.3	524.7	516.5	527.5	538.5	552.4	580.0	588.3	588.3	599.3	610.4
20°	546.8	486.1	425.3	538.5	651.8	701.5	765.0	787.1	792.6	762.3	731.9
22.5°	491.6	560.6	629.7	615.9	602.1	588.3	588.3	596.5	604.8	610.4	615.9
25°	632.4	574.5	516.5	649.0	781.6	834.1	864.4	878.2	889.3	850.6	809.2
27.5°	580.0	657.3	731.9	789.9	847.9	905.9	969.4	1030.1	955.6	919.7	883.8
30°	748.4	812.0	875.5	1013.6	1151.7	1226.2	1264.9	1264.9	1264.9	1212.4	1157.2
32.5°	847.9	958.3	1068.8	1143.4	1215.2	1289.8	1320.1	1320.1	1320.1	1256.6	1190.3
35°	983.2	1071.6	1159.9	1245.6	1331.2	1389.2	1411.3	1403.0	1386.4	1300.8	1215.2
37.5°	1071.6	1190.3	1309.1	1397.5	1483.1	1519.0	1527.3	1502.4	1477.6	1364.3	1248.3
40°	1204.1	1333.9	1461.0	1554.9	1648.8	1679.2	1662.6	1629.5	1585.3	1433.4	1281.5
42.5°	1358.8	1488.6	1618.4	1728.9	1836.6	1855.9	1831.1	1778.6	1701.3	1494.1	1284.2
45°	1527.3	1657.1	1784.1	1908.4	2032.7	2046.5	2013.3	1936.0	1822.8	1552.1	1281.5
47.5°	1715.1	1817.3	1919.4	2096.2	2272.9	2256.4	2206.7	2118.3	1969.2	1621.2	1270.4
50°	1922.2	2002.3	2079.6	2300.6	2521.5	2471.8	2416.6	2319.9	2123.8	1701.3	1275.9
52.5°	2115.5	2192.9	2270.2	2499.4	2725.9	2678.9	2618.2	2532.6	2281.2	1786.9	1289.8
55°	2330.9	2413.8	2496.7	2739.7	2982.7	2902.6	2825.3	2770.1	2435.9	1858.7	1281.5
57.5°	2565.7	2670.6	2775.6	2999.3	3220.2	3134.6	3090.4	3018.6	2607.1	1944.3	1281.5
60°	2800.4	2927.5	3054.5	3250.6	3446.7	3377.7	3369.4	3270.0	2767.3	2007.8	1245.6
62.5°	3007.6	3198.1	3388.7	3543.4	3695.3	3629.0	3631.7	3515.8	2916.4	2021.6	1124.0
65°	3217.5	3463.3	3706.3	3819.5	3932.8	3885.8	3932.8	3725.6	3015.9	1966.4	916.9
67.5°	3424.6	3695.3	3965.9	4051.5	4137.2	4109.5	4164.8	3794.7	2993.8	1822.8	649.0
70°	3568.2	3855.5	4142.7	4186.9	4231.1	4225.5	4244.9	3709.1	2844.6	1637.7	428.1
72.5°	3645.6	3916.2	4184.1	4203.4	4220.0	4211.7	4131.6	3441.2	2576.7	1436.1	295.5
75°	3595.8	3858.2	4120.6	4081.9	4043.3	3965.9	3698.0	2963.4	2112.8	1165.5	218.2
77.5°	3330.7	3615.2	3899.6	3800.2	3698.0	3471.6	3021.4	2220.5	1469.3	820.2	168.5
80°	2499.4	2850.2	3200.9	3082.2	2960.6	2482.8	1839.3	1242.8	759.5	444.6	129.8
82.5°	1209.7	1405.7	1601.8	1571.5	1541.1	1140.6	795.4	447.4	218.2	160.2	102.2
85°	320.4	475.0	629.7	602.1	574.5	303.8	132.6	116.0	85.6	80.1	71.8
87.5°	38.7	44.2	47.0	33.1	16.6	13.8	13.8	8.3	8.3	11.0	11.0
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°	897.6	897.6	897.6	897.6	897.6	897.6	897.6	897.6	897.6	897.6	897.6
2.5°	905.9	908.6	908.6	908.6	908.6	908.6	886.5	864.4	858.9	853.4	842.3
5°	872.7	845.1	825.8	806.4	806.4	803.7	812.0	820.2	825.8	828.5	831.3
7.5°	776.1	778.8	795.4	809.2	823.0	834.1	842.3	847.9	842.3	834.1	800.9
10°	635.2	638.0	651.8	662.8	682.2	698.7	745.7	789.9	842.3	894.8	908.6
12.5°	604.8	643.5	621.4	599.3	660.1	718.1	778.8	836.8	878.2	916.9	889.3
15°	615.9	571.7	580.0	588.3	662.8	737.4	693.2	646.3	756.7	867.2	892.1
17.5°	613.1	613.1	654.5	696.0	626.9	555.1	657.3	756.7	800.9	842.3	809.2
20°	654.5	574.5	604.8	632.4	687.7	740.2	696.0	651.8	668.4	684.9	792.6
22.5°	682.2	745.7	676.6	604.8	654.5	704.3	696.0	687.7	737.4	787.1	759.5
25°	712.5	613.1	662.8	709.8	654.5	596.5	640.7	682.2	668.4	654.5	740.2
27.5°	817.5	748.4	684.9	621.4	654.5	684.9	651.8	615.9	629.7	643.5	638.0
30°	988.7	817.5	737.4	657.3	615.9	571.7	574.5	577.2	593.8	610.4	657.3
32.5°	1032.9	875.5	759.5	643.5	615.9	588.3	563.4	535.8	560.6	585.5	640.7
35°	1044.0	870.0	745.7	621.4	577.2	533.0	516.5	499.9	541.3	582.7	632.4
37.5°	1038.4	825.8	693.2	560.6	527.5	494.4	486.1	475.0	502.6	527.5	563.4
40°	1024.6	767.8	635.2	502.6	475.0	447.4	441.9	436.4	455.7	475.0	497.1
42.5°	999.8	712.5	580.0	447.4	428.1	408.7	403.2	394.9	411.5	428.1	436.4
45°	969.4	657.3	533.0	406.0	392.2	375.6	367.3	356.3	372.8	386.6	389.4
47.5°	939.0	604.8	491.6	375.6	364.6	350.7	342.5	331.4	345.2	356.3	359.0
50°	914.2	549.6	447.4	345.2	334.2	323.1	314.8	306.6	320.4	331.4	331.4
52.5°	900.3	508.2	408.7	309.3	303.8	298.3	295.5	290.0	301.0	312.1	314.8
55°	867.2	450.2	364.6	276.2	278.9	278.9	276.2	270.7	292.7	312.1	320.4
57.5°	831.3	381.1	317.6	251.3	256.8	262.4	265.1	267.9	292.7	314.8	325.9
60°	784.3	323.1	276.2	229.2	237.5	243.0	256.8	267.9	290.0	312.1	317.6
62.5°	701.5	276.2	243.0	209.9	220.9	232.0	248.6	265.1	281.7	298.3	298.3
65°	580.0	240.3	218.2	193.3	209.9	223.7	243.0	262.4	276.2	287.2	284.5
67.5°	433.6	215.4	198.8	179.5	198.8	215.4	232.0	248.6	265.1	281.7	276.2
70°	312.1	193.3	182.3	168.5	185.0	201.6	218.2	234.8	251.3	267.9	265.1
72.5°	237.5	176.8	165.7	154.7	171.2	185.0	204.4	223.7	240.3	256.8	251.3
75°	190.6	160.2	151.9	140.9	157.4	174.0	193.3	209.9	226.5	243.0	237.5
77.5°	157.4	143.6	135.3	127.0	140.9	154.7	174.0	193.3	209.9	223.7	218.2
80°	127.0	121.5	116.0	107.7	124.3	138.1	157.4	174.0	187.8	201.6	193.3
82.5°	99.4	96.7	93.9	88.4	102.2	116.0	135.3	154.7	165.7	176.8	171.2
85°	74.6	74.6	71.8	69.0	80.1	88.4	99.4	107.7	118.8	127.0	121.5
87.5°	11.0	11.0	16.6	19.3	19.3	19.3	27.6	35.9	35.9	33.1	27.6
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°	897.6	897.6	897.6	897.6
2.5°	831.3	831.3	831.3	834.1
5°	834.1	836.8	836.8	842.3
7.5°	765.0	762.3	759.5	759.5
10°	919.7	925.2	928.0	933.5
12.5°	858.9	825.8	792.6	792.6
15°	916.9	922.4	925.2	930.7
17.5°	776.1	773.3	770.5	765.0
20°	897.6	903.1	905.9	905.9
22.5°	731.9	731.9	729.1	729.1
25°	825.8	825.8	825.8	831.3
27.5°	629.7	649.0	668.4	693.2
30°	704.3	707.0	709.8	709.8
32.5°	696.0	731.9	767.8	773.3
35°	682.2	682.2	679.4	682.2
37.5°	599.3	591.0	580.0	585.5
40°	516.5	497.1	477.8	475.0
42.5°	444.6	428.1	408.7	408.7
45°	392.2	381.1	367.3	361.8
47.5°	359.0	348.0	336.9	334.2
50°	328.7	317.6	306.6	306.6
52.5°	317.6	309.3	298.3	295.5
55°	328.7	312.1	295.5	290.0
57.5°	334.2	314.8	295.5	287.2
60°	320.4	309.3	295.5	284.5
62.5°	295.5	290.0	284.5	278.9
65°	278.9	278.9	276.2	270.7
67.5°	270.7	273.4	273.4	267.9
70°	259.6	265.1	267.9	262.4
72.5°	245.8	248.6	248.6	240.3
75°	229.2	226.5	223.7	218.2
77.5°	209.9	207.1	201.6	196.1
80°	185.0	182.3	179.5	171.2
82.5°	162.9	168.5	171.2	140.9
85°	113.2	102.2	91.1	74.6
87.5°	22.1	16.6	8.3	8.3
90°	0.0	0.0	0.0	0.0

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