

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: P560981

Luminaire Tested: **SDL-PA1-70-827-U-T2U**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P560981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-8)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-70-827-U-T2U
Description: Springdale
(1) 80 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6321.3 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 72.2
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

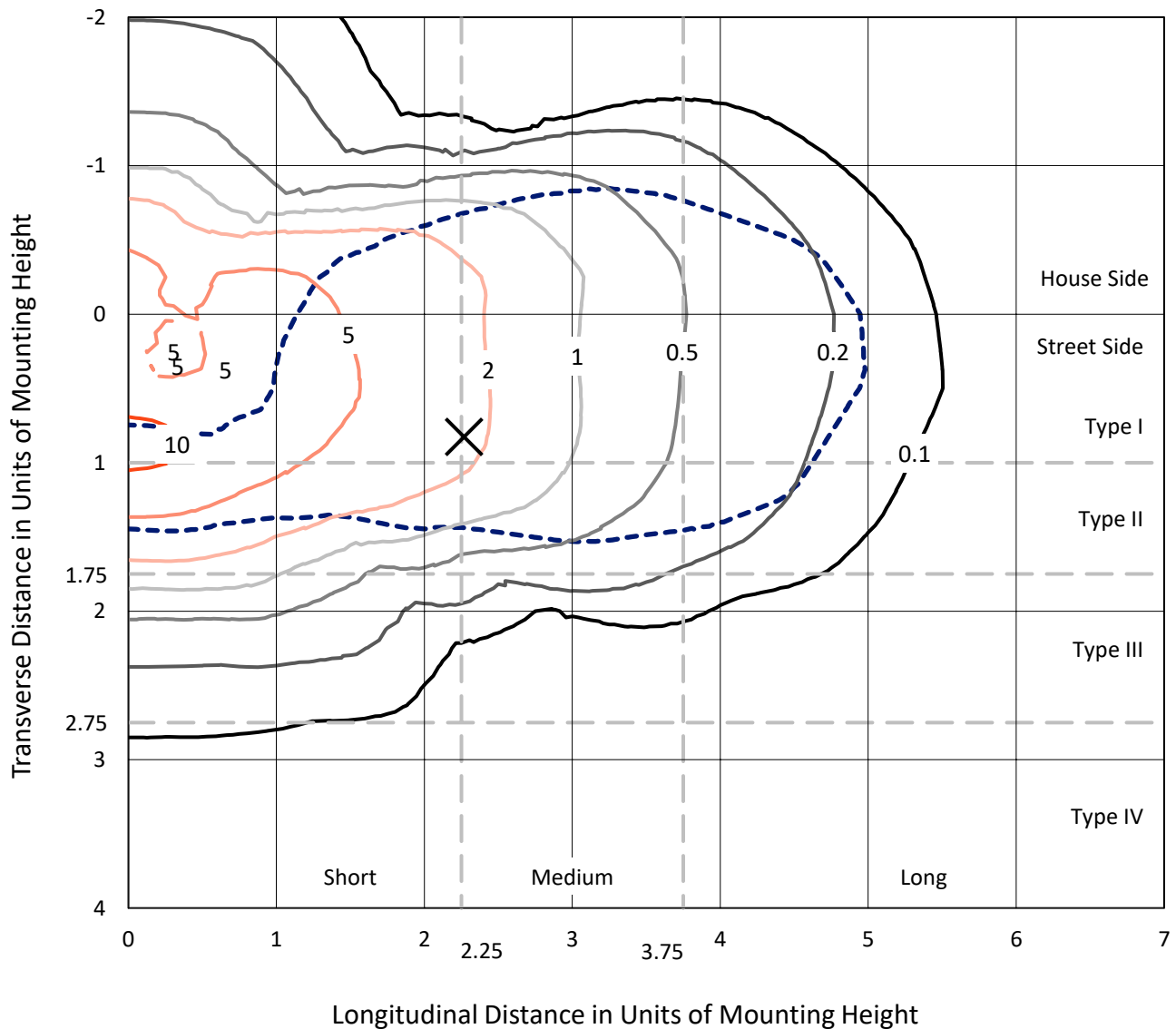


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

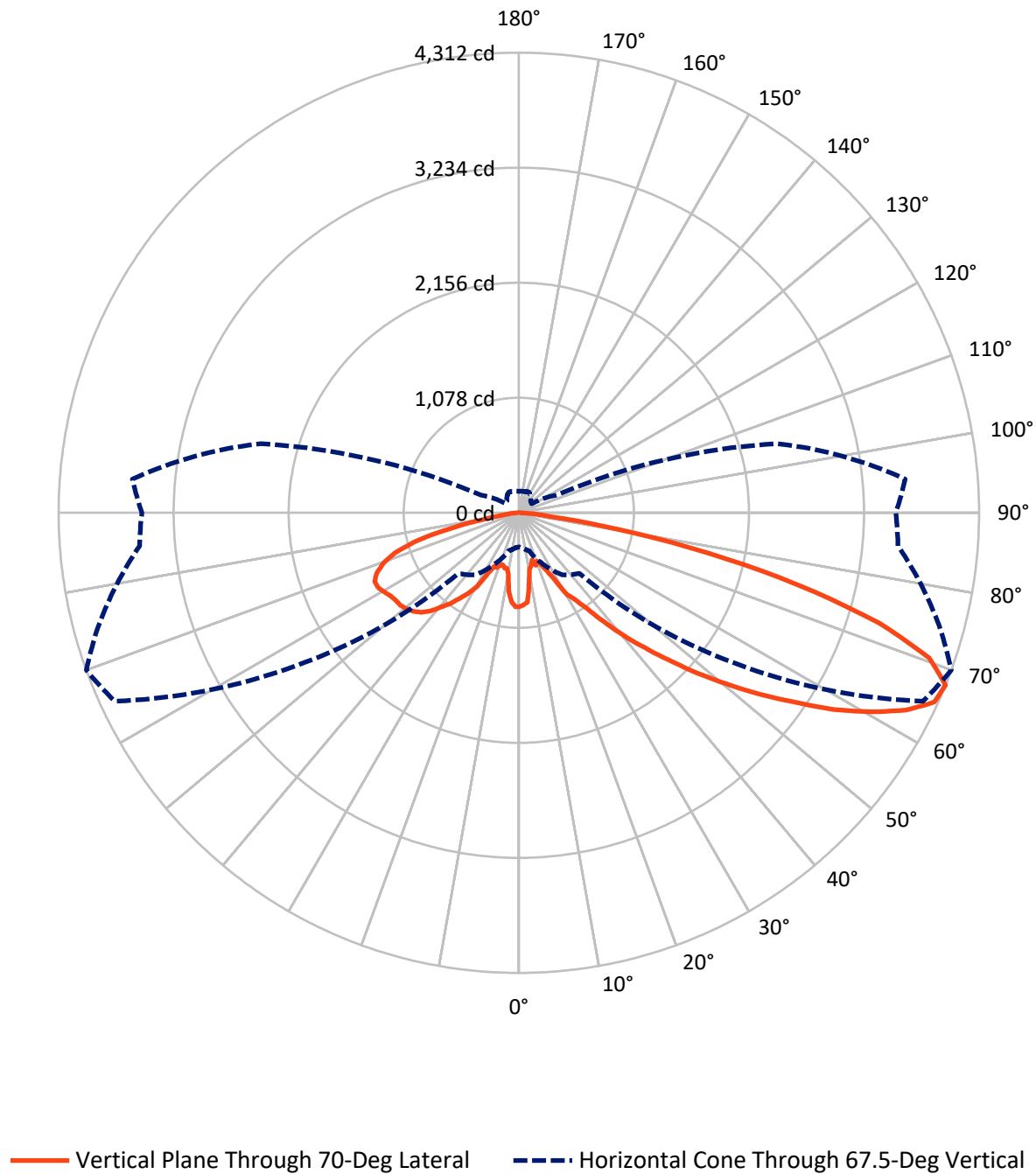


Based on 10 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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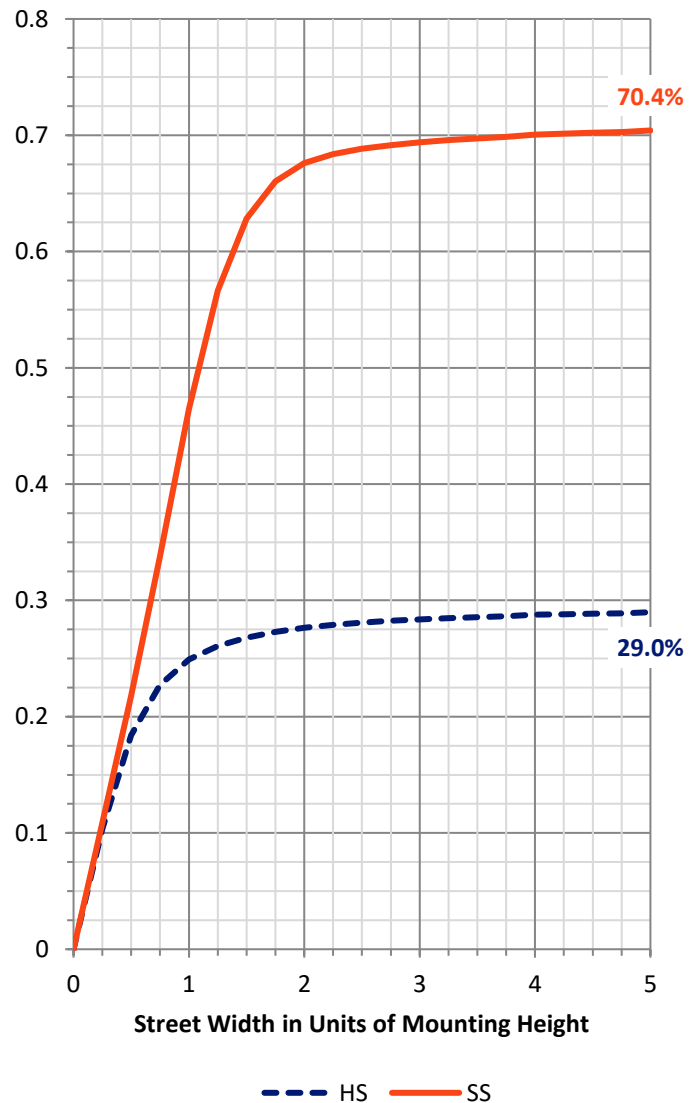
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1853.8	0.0	1853.8
	% Fixture	29.3	0.0	29.3
Street Side	Lumens	4467.5	0.0	4467.5
	% Fixture	70.7	0.0	70.7
Total	Lumens	6321.3	0.0	6321.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	1.1
10°-20°	165.5	2.6
20°-30°	294.0	4.7
30°-40°	621.6	9.8
40°-50°	1137.9	18.0
50°-60°	1552.4	24.6
60°-70°	1463.5	23.2
70°-80°	885.7	14.0
80°-90°	130.1	2.1
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°	6321.3	100.0
0°-180°	6321.3	100.0

Coefficient of Utilization



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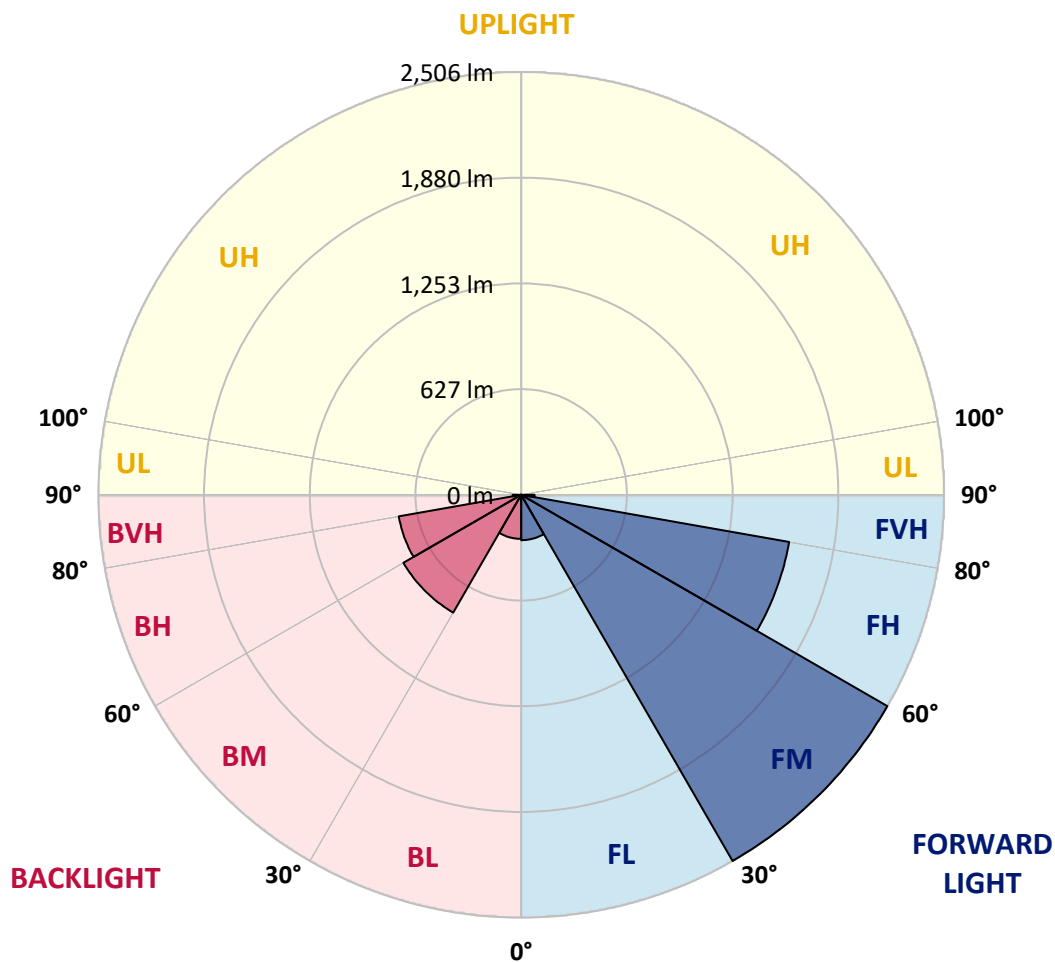
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	269.0	4.3			
FM	(30°-60°)	2506.0	39.6			
FH	(60°-80°)	1612.7	25.5			G1/1800
FVH	(80°-90°)	79.8	1.3			G1/100
BL	(0°-30°)	261.1	4.1	B1/500		
BM	(30°-60°)	805.9	12.7	B1/1000		
BH	(60°-80°)	736.5	11.7	B2/1000		G2/1000
BVH	(80°-90°)	50.3	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	880.2	880.2	880.2	880.2	880.2	880.2	880.2	880.2	880.2	880.2	880.2
2.5°	739.2	746.0	791.5	837.0	839.2	839.2	841.5	843.8	850.6	855.1	859.7
5°	689.1	693.7	693.7	693.7	695.9	698.2	700.5	700.5	705.0	707.3	711.9
7.5°	577.7	623.2	639.1	652.7	661.8	668.7	673.2	677.7	682.3	686.8	691.4
10°	657.3	657.3	659.6	659.6	659.6	657.3	611.8	564.0	586.8	609.5	575.4
12.5°	541.3	550.4	591.3	630.0	641.4	650.5	627.7	602.7	561.8	520.8	516.3
15°	643.6	643.6	643.6	641.4	600.4	557.2	514.0	468.5	495.8	523.1	482.2
17.5°	557.2	557.2	591.3	623.2	620.9	616.3	577.7	536.7	473.1	407.1	459.4
20°	702.8	700.5	689.1	675.5	591.3	507.2	525.4	543.6	548.1	550.4	534.5
22.5°	627.7	630.0	643.6	657.3	659.6	661.8	564.0	464.0	520.8	577.7	523.1
25°	873.3	868.8	848.3	825.6	732.3	636.8	655.0	673.2	580.0	484.4	543.6
27.5°	830.1	816.5	807.4	798.3	814.2	830.1	743.7	655.0	675.5	695.9	620.9
30°	1187.2	1187.2	1164.5	1139.4	998.4	855.1	832.4	809.7	755.1	698.2	711.9
32.5°	1503.3	1503.3	1419.2	1332.8	1248.6	1164.5	1053.0	941.6	918.8	893.8	871.1
35°	1892.2	1880.9	1833.1	1783.1	1601.1	1419.2	1275.9	1132.6	1087.1	1041.6	1018.9
37.5°	2256.1	2231.1	2165.2	2096.9	1905.9	1712.6	1523.8	1335.0	1285.0	1235.0	1184.9
40°	2556.3	2542.7	2497.2	2449.4	2233.4	2017.3	1803.5	1587.5	1521.5	1455.6	1382.8
42.5°	2831.5	2820.2	2779.2	2736.0	2522.2	2306.2	2103.7	1899.1	1801.3	1703.5	1617.0
45°	3033.9	3015.8	2988.5	2958.9	2788.3	2615.5	2410.8	2203.8	2165.2	2126.5	1958.2
47.5°	3097.6	3065.8	3061.2	3056.7	2920.2	2783.8	2620.0	2456.3	2463.1	2469.9	2274.3
50°	3004.4	2956.6	2977.1	2997.6	2943.0	2886.1	2758.8	2631.4	2688.2	2742.8	2588.2
52.5°	2665.5	2654.1	2706.4	2756.5	2770.1	2783.8	2756.5	2726.9	2831.5	2936.1	2879.3
55°	2199.3	2249.3	2322.1	2394.9	2451.7	2506.3	2585.9	2665.5	2845.2	3024.8	3065.8
57.5°	1733.0	1785.3	1869.5	1953.6	2019.6	2085.6	2249.3	2413.1	2683.7	2954.3	3138.6
60°	1166.7	1221.3	1360.0	1496.5	1589.8	1683.0	1830.8	1978.7	2319.8	2661.0	3033.9
62.5°	777.8	759.6	875.6	989.3	1139.4	1289.5	1355.5	1419.2	1776.2	2131.0	2733.7
65°	477.6	479.9	525.4	568.6	734.6	898.4	950.7	1000.7	1203.1	1405.5	2226.6
67.5°	320.7	327.5	348.0	368.4	448.0	527.6	618.6	709.6	757.3	802.8	1623.9
70°	284.3	286.6	295.7	304.8	327.5	350.2	434.4	518.5	491.3	461.7	921.1
72.5°	250.2	252.4	268.4	282.0	293.4	304.8	354.8	404.8	373.0	341.1	459.4
75°	204.7	211.5	227.4	241.1	263.8	284.3	295.7	307.0	291.1	272.9	295.7
77.5°	168.3	172.8	184.2	195.6	218.3	238.8	250.2	261.5	236.5	211.5	225.2
80°	131.9	134.2	143.3	152.4	170.6	186.5	200.1	211.5	188.8	163.8	170.6
82.5°	79.6	81.9	95.5	106.9	122.8	136.5	145.6	152.4	159.2	163.8	143.3
85°	43.2	43.2	52.3	61.4	63.7	66.0	75.1	81.9	102.3	120.5	104.6
87.5°	6.8	6.8	9.1	9.1	13.6	15.9	18.2	18.2	20.5	20.5	22.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	880.2	880.2	880.2	880.2	880.2	880.2	880.2	880.2	880.2	880.2	880.2
2.5°	862.0	864.2	864.2	864.2	866.5	868.8	871.1	871.1	873.3	875.6	877.9
5°	716.4	775.5	832.4	841.5	848.3	852.9	857.4	859.7	864.2	868.8	871.1
7.5°	695.9	695.9	695.9	680.0	739.2	746.0	752.8	757.3	761.9	757.3	750.5
10°	539.0	539.0	536.7	541.3	566.3	609.5	650.5	655.0	659.6	623.2	584.5
12.5°	509.4	516.3	523.1	511.7	466.2	504.9	543.6	550.4	552.7	520.8	486.7
15°	438.9	441.2	443.5	459.4	552.7	591.3	630.0	636.8	643.6	609.5	573.1
17.5°	509.4	493.5	475.3	518.5	482.2	507.2	529.9	475.3	525.4	516.3	507.2
20°	518.5	464.0	407.1	484.4	566.3	605.0	641.4	645.9	648.2	620.9	591.3
22.5°	468.5	520.8	573.1	520.8	489.0	484.4	479.9	477.6	479.9	495.8	509.4
25°	602.7	536.7	470.8	591.3	666.4	684.6	702.8	693.7	689.1	655.0	620.9
27.5°	545.8	598.1	648.2	698.2	721.0	746.0	768.7	775.5	739.2	702.8	666.4
30°	723.2	755.1	784.6	887.0	962.0	984.8	1007.5	984.8	971.1	925.6	877.9
32.5°	846.0	909.7	973.4	971.1	1041.6	1059.8	1075.8	1046.2	1021.2	971.1	918.8
35°	996.2	1037.1	1078.0	1100.8	1171.3	1178.1	1184.9	1146.3	1109.9	1050.7	991.6
37.5°	1134.9	1187.2	1237.2	1294.1	1355.5	1341.8	1325.9	1278.2	1219.0	1173.5	1128.1
40°	1307.7	1371.4	1435.1	1507.9	1544.3	1523.8	1501.1	1428.3	1371.4	1323.7	1275.9
42.5°	1528.3	1596.6	1662.5	1726.2	1739.9	1717.1	1692.1	1612.5	1526.1	1478.3	1428.3
45°	1787.6	1842.2	1896.8	1962.7	1990.0	1949.1	1905.9	1805.8	1703.5	1635.2	1567.0
47.5°	2076.5	2101.5	2126.5	2240.2	2276.6	2208.4	2137.9	2028.7	1885.4	1796.7	1705.7
50°	2433.5	2426.7	2417.6	2517.7	2601.8	2488.1	2372.1	2244.8	2103.7	1978.7	1851.3
52.5°	2822.4	2756.5	2688.2	2822.4	2863.4	2726.9	2590.5	2454.0	2313.0	2151.5	1987.8
55°	3106.7	3070.3	3033.9	3129.5	3124.9	2965.7	2804.2	2642.8	2526.8	2310.7	2094.6
57.5°	3320.5	3352.3	3381.9	3477.4	3368.3	3186.3	3004.4	2842.9	2742.8	2472.2	2201.5
60°	3404.7	3568.4	3729.9	3786.7	3620.7	3416.0	3209.1	3049.9	2965.7	2638.2	2310.7
62.5°	3336.4	3698.0	4059.7	4071.0	3852.7	3623.0	3393.3	3263.7	3220.4	2817.9	2413.1
65°	3047.6	3643.5	4237.1	4278.0	4032.4	3791.3	3547.9	3452.4	3479.7	2986.2	2490.4
67.5°	2442.6	3311.4	4177.9	4312.1	4075.6	3820.9	3566.1	3532.0	3634.4	3068.1	2501.8
70°	1380.5	2545.0	3707.1	4080.1	3955.0	3702.6	3447.9	3463.8	3616.2	3022.6	2429.0
72.5°	575.4	1760.3	2945.2	3529.7	3638.9	3425.1	3209.1	3268.2	3372.8	2808.8	2242.5
75°	318.4	1123.5	1928.6	2706.4	3043.0	2986.2	2927.1	2993.0	2943.0	2397.1	1851.3
77.5°	236.5	607.2	978.0	1812.6	2290.2	2419.9	2547.2	2579.1	2299.3	1751.2	1203.1
80°	177.4	288.8	398.0	925.6	1228.1	1460.1	1692.1	1548.8	1353.2	946.1	539.0
82.5°	122.8	166.0	209.2	297.9	477.6	550.4	620.9	591.3	443.5	311.6	177.4
85°	86.4	109.2	131.9	163.8	204.7	163.8	122.8	100.1	116.0	106.9	97.8
87.5°	22.7	22.7	20.5	22.7	15.9	13.6	11.4	9.1	9.1	9.1	9.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	880.2	880.2	880.2	880.2	880.2	880.2	880.2	880.2	880.2	880.2	880.2
2.5°	880.2	882.4	882.4	882.4	882.4	880.2	868.8	857.4	830.1	802.8	793.7
5°	841.5	811.9	789.2	766.4	766.4	766.4	771.0	775.5	777.8	780.1	782.4
7.5°	750.5	748.3	757.3	766.4	773.3	780.1	784.6	789.2	780.1	771.0	750.5
10°	586.8	586.8	598.1	607.2	623.2	639.1	684.6	730.1	768.7	807.4	814.2
12.5°	532.2	575.4	550.4	523.1	580.0	636.8	686.8	734.6	773.3	809.7	780.1
15°	534.5	493.5	502.6	511.7	573.1	634.5	589.0	541.3	632.3	721.0	741.4
17.5°	509.4	511.7	552.7	593.6	532.2	468.5	548.1	627.7	661.8	693.7	664.1
20°	523.1	452.6	500.4	548.1	591.3	632.3	591.3	548.1	559.5	570.9	648.2
22.5°	552.7	595.9	554.9	514.0	564.0	611.8	591.3	570.9	607.2	641.4	609.5
25°	550.4	477.6	545.8	614.1	568.6	520.8	545.8	570.9	552.7	532.2	591.3
27.5°	634.5	602.7	584.5	564.0	589.0	614.1	561.8	509.4	509.4	509.4	502.6
30°	793.7	709.6	673.2	634.5	573.1	511.7	493.5	475.3	477.6	479.9	514.0
32.5°	887.0	855.1	746.0	636.8	580.0	523.1	475.3	427.6	432.1	436.7	479.9
35°	968.9	943.8	798.3	650.5	557.2	461.7	420.7	377.5	398.0	416.2	452.6
37.5°	1062.1	993.9	796.0	595.9	495.8	395.7	370.7	345.7	359.3	370.7	393.5
40°	1146.3	1014.3	775.5	534.5	434.4	332.1	320.7	307.0	318.4	329.8	343.4
42.5°	1237.2	1043.9	746.0	445.8	366.2	286.6	282.0	277.5	288.8	300.2	309.3
45°	1307.7	1048.5	707.3	363.9	311.6	259.3	259.3	257.0	268.4	277.5	282.0
47.5°	1353.2	998.4	645.9	291.1	268.4	245.6	247.9	247.9	257.0	263.8	266.1
50°	1385.1	916.6	586.8	257.0	245.6	234.3	234.3	234.3	243.4	250.2	254.7
52.5°	1407.8	825.6	532.2	236.5	232.0	225.2	225.2	222.9	234.3	245.6	247.9
55°	1414.6	732.3	477.6	220.6	216.1	211.5	216.1	218.3	232.0	243.4	245.6
57.5°	1430.5	659.6	432.1	204.7	202.4	200.1	207.0	213.8	227.4	241.1	241.1
60°	1462.4	611.8	400.3	188.8	188.8	188.8	200.1	209.2	222.9	236.5	234.3
62.5°	1492.0	568.6	370.7	172.8	175.1	177.4	191.0	204.7	218.3	232.0	229.7
65°	1496.5	500.4	329.8	159.2	163.8	166.0	181.9	197.9	211.5	225.2	220.6
67.5°	1446.5	391.2	268.4	145.6	152.4	156.9	175.1	191.0	204.7	216.1	211.5
70°	1355.5	279.7	207.0	134.2	141.0	145.6	163.8	179.7	191.0	202.4	197.9
72.5°	1221.3	200.1	161.5	122.8	127.4	131.9	147.8	163.8	177.4	188.8	184.2
75°	1007.5	161.5	136.5	111.4	116.0	118.3	134.2	147.8	161.5	172.8	166.0
77.5°	668.7	131.9	116.0	100.1	102.3	104.6	118.3	129.6	141.0	150.1	145.6
80°	323.0	106.9	97.8	86.4	88.7	88.7	100.1	111.4	120.5	127.4	125.1
82.5°	131.9	84.1	77.3	70.5	70.5	70.5	81.9	91.0	100.1	106.9	102.3
85°	81.9	66.0	61.4	54.6	52.3	50.0	54.6	59.1	63.7	66.0	63.7
87.5°	11.4	11.4	13.6	15.9	13.6	9.1	13.6	18.2	18.2	15.9	13.6
90°	0.0	0.0	6.8	6.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	880.2	880.2	880.2	880.2
2.5°	784.6	784.6	784.6	789.2
5°	782.4	782.4	782.4	786.9
7.5°	730.1	707.3	684.6	686.8
10°	818.8	821.0	821.0	823.3
12.5°	748.3	711.9	675.5	680.0
15°	761.9	761.9	759.6	761.9
17.5°	634.5	623.2	611.8	611.8
20°	725.5	725.5	725.5	725.5
22.5°	577.7	575.4	573.1	575.4
25°	650.5	652.7	652.7	650.5
27.5°	495.8	525.4	552.7	554.9
30°	545.8	545.8	545.8	545.8
32.5°	523.1	545.8	568.6	570.9
35°	486.7	484.4	482.2	489.0
37.5°	413.9	409.4	404.8	404.8
40°	357.1	348.0	338.9	338.9
42.5°	316.1	309.3	300.2	297.9
45°	286.6	279.7	270.6	270.6
47.5°	266.1	261.5	257.0	254.7
50°	257.0	252.4	247.9	247.9
52.5°	250.2	247.9	243.4	243.4
55°	245.6	243.4	238.8	238.8
57.5°	241.1	238.8	234.3	234.3
60°	232.0	229.7	227.4	227.4
62.5°	225.2	222.9	220.6	220.6
65°	216.1	216.1	213.8	211.5
67.5°	204.7	204.7	204.7	200.1
70°	191.0	191.0	191.0	186.5
72.5°	177.4	177.4	175.1	168.3
75°	159.2	156.9	154.7	150.1
77.5°	141.0	136.5	131.9	129.6
80°	120.5	116.0	111.4	106.9
82.5°	95.5	93.2	88.7	77.3
85°	59.1	52.3	43.2	38.7
87.5°	11.4	9.1	6.8	2.3
90°	0.0	0.0	0.0	0.0

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