

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: P560519

Luminaire Tested: **SDL-PA1-50-727-U-T2U**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P560519
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-PA1-50-727-U-T2U
Description: Springdale
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5443.8 lumens
Efficiency: N/A
Efficacy: 103.9 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): 52.4
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



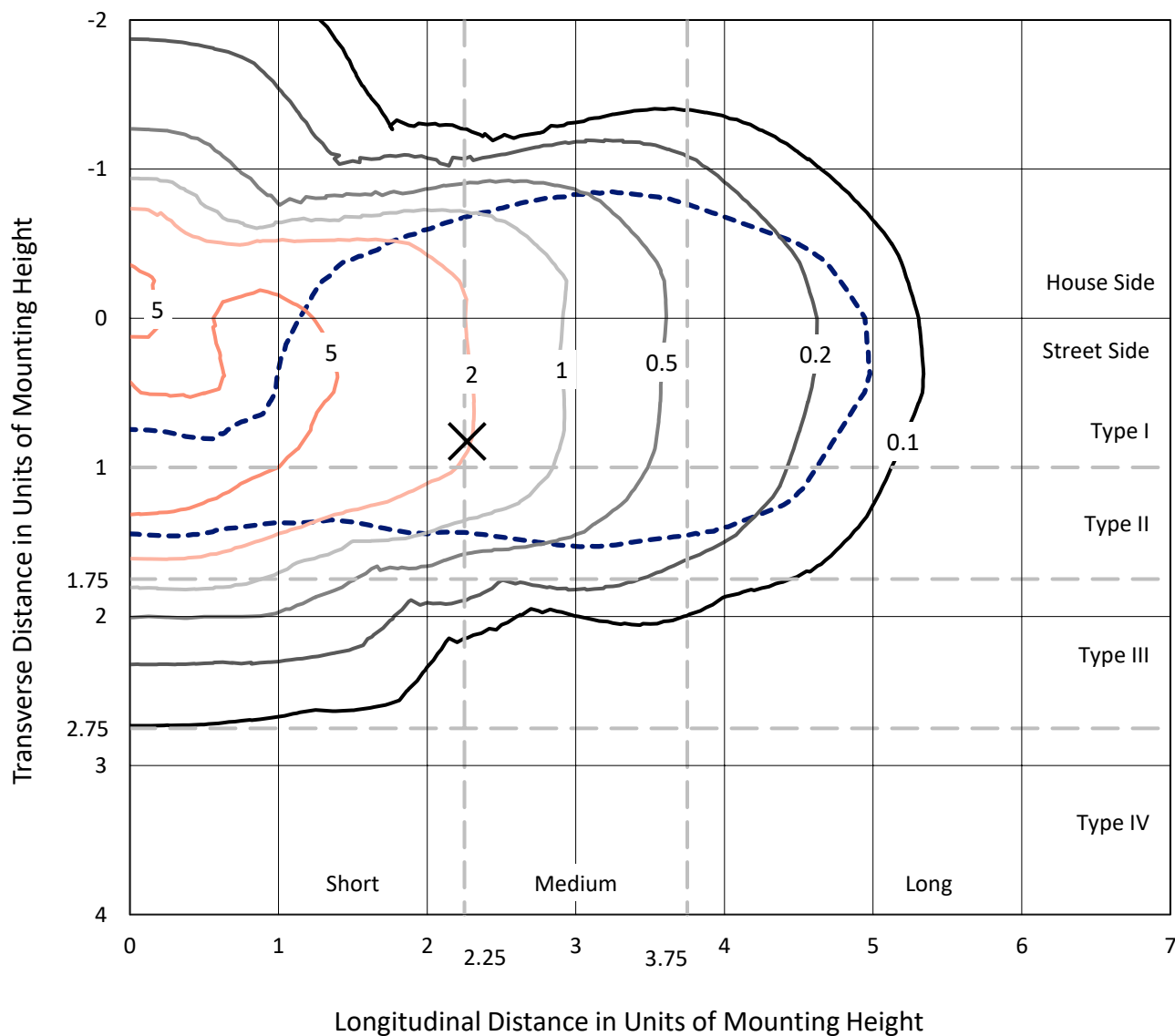
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

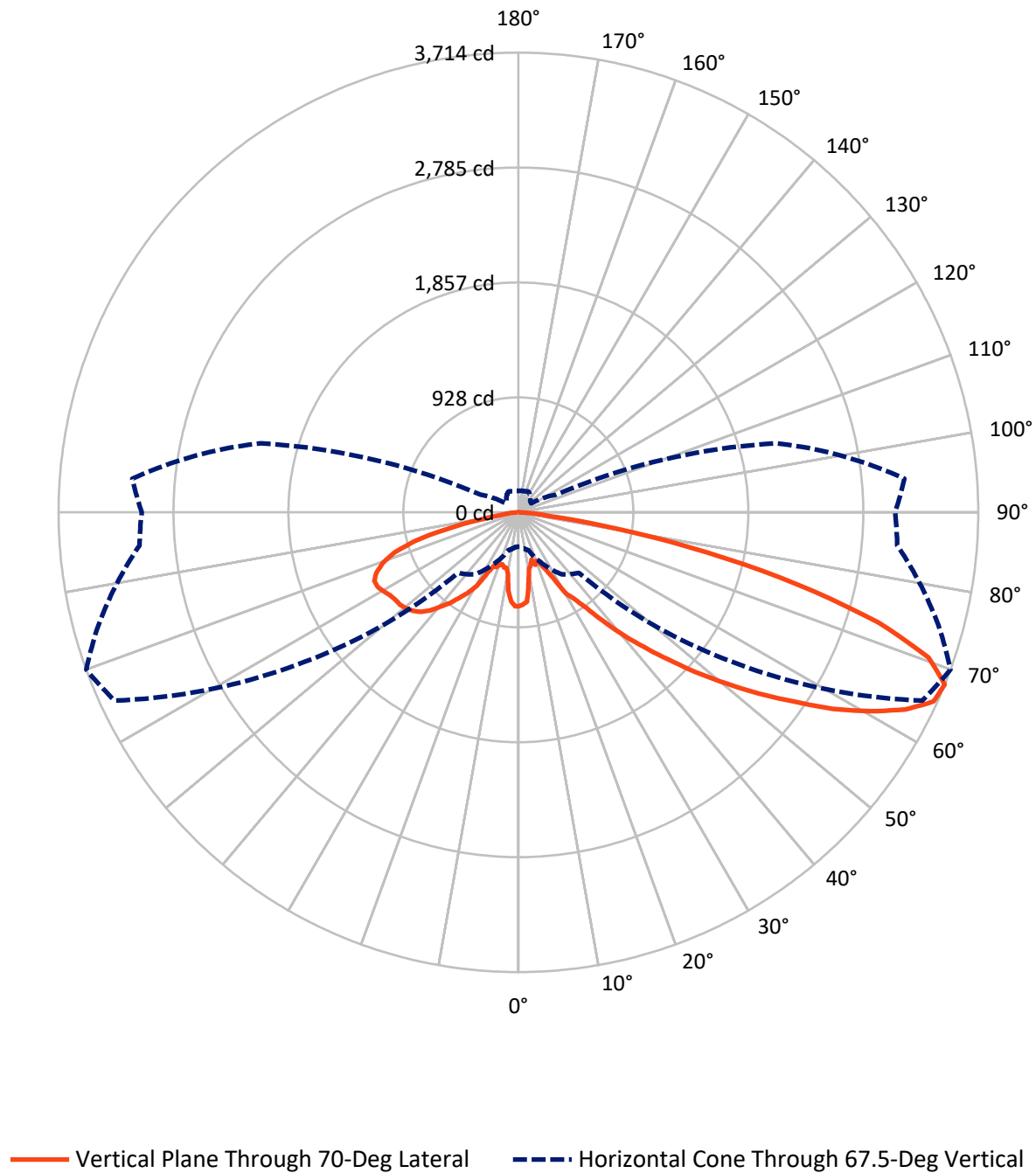


Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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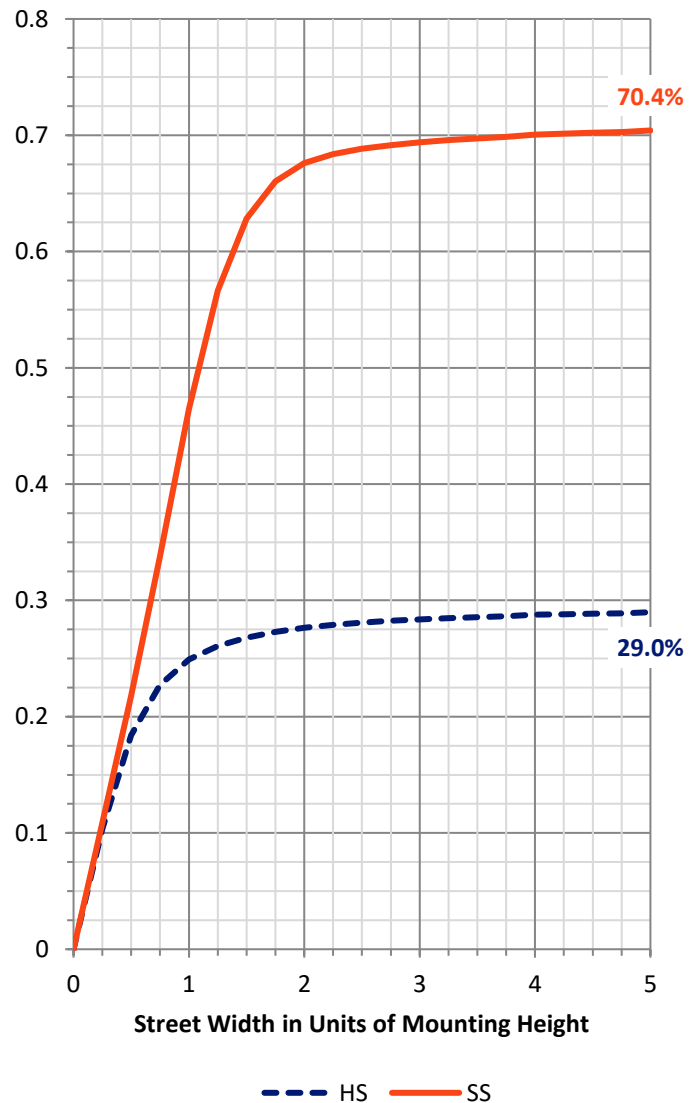
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1596.4	0.0	1596.4
	% Fixture	29.3	0.0	29.3
Street Side	Lumens	3847.3	0.0	3847.3
	% Fixture	70.7	0.0	70.7
Total	Lumens	5443.8	0.0	5443.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	1.1
10°-20°	142.5	2.6
20°-30°	253.2	4.7
30°-40°	535.3	9.8
40°-50°	979.9	18.0
50°-60°	1336.9	24.6
60°-70°	1260.3	23.2
70°-80°	762.8	14.0
80°-90°	112.0	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°	5443.8	100.0
0°-180°	5443.8	100.0

Coefficient of Utilization



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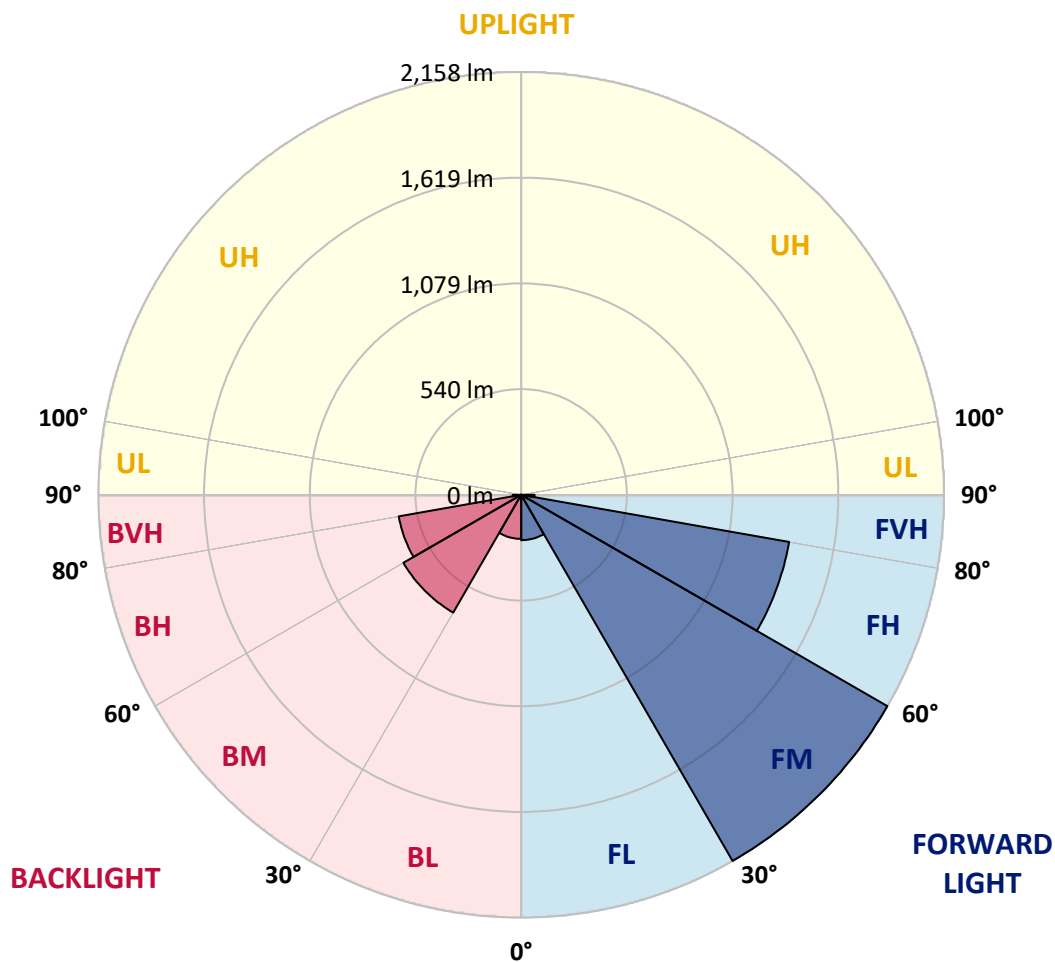
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	231.6	4.3			
FM	(30°-60°)	2158.1	39.6			
FH	(60°-80°)	1388.8	25.5			G1/1800
FVH	(80°-90°)	68.7	1.3			G1/100
BL	(0°-30°)	224.9	4.1	B1/500		
BM	(30°-60°)	694.0	12.7	B1/1000		
BH	(60°-80°)	634.2	11.7	B2/1000		G2/1000
BVH	(80°-90°)	43.3	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°	758.0	758.0	758.0	758.0	758.0	758.0	758.0	758.0	758.0	758.0	758.0
2.5°	636.5	642.4	681.6	720.8	722.7	722.7	724.7	726.6	732.5	736.4	740.3
5°	593.5	597.4	597.4	597.4	599.3	601.3	603.2	603.2	607.2	609.1	613.0
7.5°	497.5	536.7	550.4	562.1	569.9	575.8	579.7	583.7	587.6	591.5	595.4
10°	566.0	566.0	568.0	568.0	568.0	566.0	526.9	485.7	505.3	524.9	495.5
12.5°	466.1	474.0	509.2	542.5	552.3	560.2	540.6	519.0	483.8	448.5	444.6
15°	554.3	554.3	554.3	552.3	517.1	479.9	442.6	403.5	427.0	450.5	415.2
17.5°	479.9	479.9	509.2	536.7	534.7	530.8	497.5	462.2	407.4	350.6	395.6
20°	605.2	603.2	593.5	581.7	509.2	436.8	452.4	468.1	472.0	474.0	460.3
22.5°	540.6	542.5	554.3	566.0	568.0	569.9	485.7	399.6	448.5	497.5	450.5
25°	752.1	748.2	730.6	711.0	630.7	548.4	564.1	579.7	499.4	417.2	468.1
27.5°	714.9	703.1	695.3	687.5	701.2	714.9	640.5	564.1	581.7	599.3	534.7
30°	1022.4	1022.4	1002.8	981.3	859.8	736.4	716.8	697.3	650.3	601.3	613.0
32.5°	1294.6	1294.6	1222.2	1147.7	1075.3	1002.8	906.8	810.9	791.3	769.7	750.1
35°	1629.5	1619.8	1578.6	1535.5	1378.8	1222.2	1098.8	975.4	936.2	897.0	877.4
37.5°	1942.9	1921.4	1864.6	1805.8	1641.3	1474.8	1312.3	1149.7	1106.6	1063.5	1020.4
40°	2201.5	2189.7	2150.5	2109.4	1923.3	1737.3	1553.2	1367.1	1310.3	1253.5	1190.8
42.5°	2438.4	2428.6	2393.4	2356.2	2172.1	1986.0	1811.7	1635.4	1551.2	1467.0	1392.6
45°	2612.8	2597.1	2573.6	2548.1	2401.2	2252.4	2076.1	1897.9	1864.6	1831.3	1686.3
47.5°	2667.6	2640.2	2636.3	2632.3	2514.8	2397.3	2256.3	2115.3	2121.1	2127.0	1958.6
50°	2587.3	2546.2	2563.8	2581.4	2534.4	2485.4	2375.8	2266.1	2315.0	2362.1	2228.9
52.5°	2295.5	2285.7	2330.7	2373.8	2385.6	2397.3	2373.8	2348.3	2438.4	2528.5	2479.6
55°	1894.0	1937.0	1999.7	2062.4	2111.4	2158.4	2226.9	2295.5	2450.2	2604.9	2640.2
57.5°	1492.4	1537.5	1610.0	1682.4	1739.2	1796.0	1937.0	2078.1	2311.1	2544.2	2702.9
60°	1004.8	1051.8	1171.2	1288.8	1369.1	1449.4	1576.7	1704.0	1997.8	2291.5	2612.8
62.5°	669.8	654.2	754.1	852.0	981.3	1110.5	1167.3	1222.2	1529.7	1835.2	2354.2
65°	411.3	413.3	452.4	489.6	632.6	773.6	818.7	861.8	1036.1	1210.4	1917.5
67.5°	276.2	282.0	299.7	317.3	385.8	454.4	532.7	611.1	652.2	691.4	1398.4
70°	244.8	246.8	254.6	262.5	282.0	301.6	374.1	446.6	423.1	397.6	793.2
72.5°	215.4	217.4	231.1	242.9	252.7	262.5	305.5	348.6	321.2	293.8	395.6
75°	176.3	182.1	195.9	207.6	227.2	244.8	254.6	264.4	250.7	235.0	254.6
77.5°	144.9	148.9	158.6	168.4	188.0	205.7	215.4	225.2	203.7	182.1	193.9
80°	113.6	115.6	123.4	131.2	146.9	160.6	172.4	182.1	162.6	141.0	146.9
82.5°	68.6	70.5	82.3	92.1	105.8	117.5	125.3	131.2	137.1	141.0	123.4
85°	37.2	37.2	45.0	52.9	54.8	56.8	64.6	70.5	88.1	103.8	90.1
87.5°	5.9	5.9	7.8	7.8	11.8	13.7	15.7	15.7	17.6	17.6	19.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	758.0	758.0	758.0	758.0	758.0	758.0	758.0	758.0	758.0	758.0	758.0
2.5°	742.3	744.3	744.3	744.3	746.2	748.2	750.1	750.1	752.1	754.1	756.0
5°	617.0	667.9	716.8	724.7	730.6	734.5	738.4	740.3	744.3	748.2	750.1
7.5°	599.3	599.3	599.3	585.6	636.5	642.4	648.3	652.2	656.1	652.2	646.3
10°	464.2	464.2	462.2	466.1	487.7	524.9	560.2	564.1	568.0	536.7	503.4
12.5°	438.7	444.6	450.5	440.7	401.5	434.8	468.1	474.0	475.9	448.5	419.1
15°	378.0	380.0	381.9	395.6	475.9	509.2	542.5	548.4	554.3	524.9	493.6
17.5°	438.7	425.0	409.3	446.6	415.2	436.8	456.4	409.3	452.4	444.6	436.8
20°	446.6	399.6	350.6	417.2	487.7	521.0	552.3	556.2	558.2	534.7	509.2
22.5°	403.5	448.5	493.6	448.5	421.1	417.2	413.3	411.3	413.3	427.0	438.7
25°	519.0	462.2	405.4	509.2	573.9	589.5	605.2	597.4	593.5	564.1	534.7
27.5°	470.1	515.1	558.2	601.3	620.9	642.4	662.0	667.9	636.5	605.2	573.9
30°	622.8	650.3	675.7	763.8	828.5	848.1	867.7	848.1	836.3	797.1	756.0
32.5°	728.6	783.4	838.3	836.3	897.0	912.7	926.4	901.0	879.4	836.3	791.3
35°	857.9	893.1	928.4	948.0	1008.7	1014.5	1020.4	987.1	955.8	904.9	853.9
37.5°	977.3	1022.4	1065.5	1114.4	1167.3	1155.6	1141.9	1100.7	1049.8	1010.6	971.5
40°	1126.2	1181.0	1235.9	1298.5	1329.9	1312.3	1292.7	1230.0	1181.0	1139.9	1098.8
42.5°	1316.2	1374.9	1431.7	1486.6	1498.3	1478.7	1457.2	1388.6	1314.2	1273.1	1230.0
45°	1539.4	1586.5	1633.5	1690.3	1713.8	1678.5	1641.3	1555.1	1467.0	1408.2	1349.5
47.5°	1788.2	1809.7	1831.3	1929.2	1960.5	1901.8	1841.1	1747.1	1623.7	1547.3	1468.9
50°	2095.7	2089.8	2082.0	2168.2	2240.6	2142.7	2042.8	1933.1	1811.7	1704.0	1594.3
52.5°	2430.6	2373.8	2315.0	2430.6	2465.9	2348.3	2230.8	2113.3	1991.9	1852.8	1711.8
55°	2675.4	2644.1	2612.8	2695.0	2691.1	2554.0	2414.9	2275.9	2176.0	1989.9	1803.9
57.5°	2859.5	2887.0	2912.4	2994.7	2900.7	2744.0	2587.3	2448.2	2362.1	2129.0	1895.9
60°	2932.0	3073.0	3212.1	3261.0	3118.1	2941.8	2763.6	2626.5	2554.0	2272.0	1989.9
62.5°	2873.2	3184.7	3496.1	3505.9	3317.8	3120.0	2922.2	2810.6	2773.4	2426.7	2078.1
65°	2624.5	3137.7	3648.8	3684.1	3472.6	3265.0	3055.4	2973.1	2996.6	2571.6	2144.7
67.5°	2103.5	2851.7	3597.9	3713.5	3509.8	3290.4	3071.1	3041.7	3129.8	2642.1	2154.4
70°	1188.9	2191.7	3192.5	3513.7	3406.0	3188.6	2969.2	2982.9	3114.2	2603.0	2091.8
72.5°	495.5	1515.9	2536.4	3039.7	3133.7	2949.6	2763.6	2814.5	2904.6	2418.9	1931.2
75°	274.2	967.5	1660.9	2330.7	2620.6	2571.6	2520.7	2577.5	2534.4	2064.4	1594.3
77.5°	203.7	522.9	842.2	1561.0	1972.3	2083.9	2193.6	2221.0	1980.1	1508.1	1036.1
80°	152.8	248.7	342.8	797.1	1057.6	1257.4	1457.2	1333.8	1165.4	814.8	464.2
82.5°	105.8	143.0	180.2	256.6	411.3	474.0	534.7	509.2	381.9	268.3	152.8
85°	74.4	94.0	113.6	141.0	176.3	141.0	105.8	86.2	99.9	92.1	84.2
87.5°	19.6	19.6	17.6	19.6	13.7	11.8	9.8	7.8	7.8	7.8	7.8
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	758.0	758.0	758.0	758.0	758.0	758.0	758.0	758.0	758.0	758.0	758.0
2.5°	758.0	759.9	759.9	759.9	759.9	758.0	748.2	738.4	714.9	691.4	683.5
5°	724.7	699.2	679.6	660.0	660.0	660.0	664.0	667.9	669.8	671.8	673.8
7.5°	646.3	644.4	652.2	660.0	665.9	671.8	675.7	679.6	671.8	664.0	646.3
10°	505.3	505.3	515.1	522.9	536.7	550.4	589.5	628.7	662.0	695.3	701.2
12.5°	458.3	495.5	474.0	450.5	499.4	548.4	591.5	632.6	665.9	697.3	671.8
15°	460.3	425.0	432.8	440.7	493.6	546.4	507.3	466.1	544.5	620.9	638.5
17.5°	438.7	440.7	475.9	511.2	458.3	403.5	472.0	540.6	569.9	597.4	571.9
20°	450.5	389.8	430.9	472.0	509.2	544.5	509.2	472.0	481.8	491.6	558.2
22.5°	475.9	513.1	477.9	442.6	485.7	526.9	509.2	491.6	522.9	552.3	524.9
25°	474.0	411.3	470.1	528.8	489.6	448.5	470.1	491.6	475.9	458.3	509.2
27.5°	546.4	519.0	503.4	485.7	507.3	528.8	483.8	438.7	438.7	438.7	432.8
30°	683.5	611.1	579.7	546.4	493.6	440.7	425.0	409.3	411.3	413.3	442.6
32.5°	763.8	736.4	642.4	548.4	499.4	450.5	409.3	368.2	372.1	376.0	413.3
35°	834.4	812.8	687.5	560.2	479.9	397.6	362.3	325.1	342.8	358.4	389.8
37.5°	914.7	855.9	685.5	513.1	427.0	340.8	319.2	297.7	309.5	319.2	338.8
40°	987.1	873.5	667.9	460.3	374.1	286.0	276.2	264.4	274.2	284.0	295.7
42.5°	1065.5	899.0	642.4	383.9	315.3	246.8	242.9	238.9	248.7	258.5	266.4
45°	1126.2	902.9	609.1	313.4	268.3	223.3	223.3	221.3	231.1	238.9	242.9
47.5°	1165.4	859.8	556.2	250.7	231.1	211.5	213.5	213.5	221.3	227.2	229.2
50°	1192.8	789.3	505.3	221.3	211.5	201.7	201.7	201.7	209.6	215.4	219.4
52.5°	1212.4	711.0	458.3	203.7	199.8	193.9	193.9	191.9	201.7	211.5	213.5
55°	1218.2	630.7	411.3	190.0	186.1	182.1	186.1	188.0	199.8	209.6	211.5
57.5°	1232.0	568.0	372.1	176.3	174.3	172.4	178.2	184.1	195.9	207.6	207.6
60°	1259.4	526.9	344.7	162.6	162.6	162.6	172.4	180.2	191.9	203.7	201.7
62.5°	1284.8	489.6	319.2	148.9	150.8	152.8	164.5	176.3	188.0	199.8	197.8
65°	1288.8	430.9	284.0	137.1	141.0	143.0	156.7	170.4	182.1	193.9	190.0
67.5°	1245.7	336.9	231.1	125.3	131.2	135.1	150.8	164.5	176.3	186.1	182.1
70°	1167.3	240.9	178.2	115.6	121.4	125.3	141.0	154.7	164.5	174.3	170.4
72.5°	1051.8	172.4	139.1	105.8	109.7	113.6	127.3	141.0	152.8	162.6	158.6
75°	867.7	139.1	117.5	96.0	99.9	101.8	115.6	127.3	139.1	148.9	143.0
77.5°	575.8	113.6	99.9	86.2	88.1	90.1	101.8	111.6	121.4	129.3	125.3
80°	278.1	92.1	84.2	74.4	76.4	76.4	86.2	96.0	103.8	109.7	107.7
82.5°	113.6	72.5	66.6	60.7	60.7	60.7	70.5	78.3	86.2	92.1	88.1
85°	70.5	56.8	52.9	47.0	45.0	43.1	47.0	50.9	54.8	56.8	54.8
87.5°	9.8	9.8	11.8	13.7	11.8	7.8	11.8	15.7	15.7	13.7	11.8
90°	0.0	0.0	5.9	5.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	758.0	758.0	758.0	758.0
2.5°	675.7	675.7	675.7	679.6
5°	673.8	673.8	673.8	677.7
7.5°	628.7	609.1	589.5	591.5
10°	705.1	707.0	707.0	709.0
12.5°	644.4	613.0	581.7	585.6
15°	656.1	656.1	654.2	656.1
17.5°	546.4	536.7	526.9	526.9
20°	624.8	624.8	624.8	624.8
22.5°	497.5	495.5	493.6	495.5
25°	560.2	562.1	562.1	560.2
27.5°	427.0	452.4	475.9	477.9
30°	470.1	470.1	470.1	470.1
32.5°	450.5	470.1	489.6	491.6
35°	419.1	417.2	415.2	421.1
37.5°	356.5	352.5	348.6	348.6
40°	307.5	299.7	291.8	291.8
42.5°	272.2	266.4	258.5	256.6
45°	246.8	240.9	233.1	233.1
47.5°	229.2	225.2	221.3	219.4
50°	221.3	217.4	213.5	213.5
52.5°	215.4	213.5	209.6	209.6
55°	211.5	209.6	205.7	205.7
57.5°	207.6	205.7	201.7	201.7
60°	199.8	197.8	195.9	195.9
62.5°	193.9	191.9	190.0	190.0
65°	186.1	186.1	184.1	182.1
67.5°	176.3	176.3	176.3	172.4
70°	164.5	164.5	164.5	160.6
72.5°	152.8	152.8	150.8	144.9
75°	137.1	135.1	133.2	129.3
77.5°	121.4	117.5	113.6	111.6
80°	103.8	99.9	96.0	92.1
82.5°	82.3	80.3	76.4	66.6
85°	50.9	45.0	37.2	33.3
87.5°	9.8	7.8	5.9	2.0
90°	0.0	0.0	0.0	0.0

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