

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: P561165

Luminaire Tested: **SDL-PA1-80-827-U-T4W**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561165
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-PA1-80-827-U-T4W
Description: Springdale
(1) 80 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6822.7 lumens
Efficiency: N/A
Efficacy: 83.2 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): 82
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

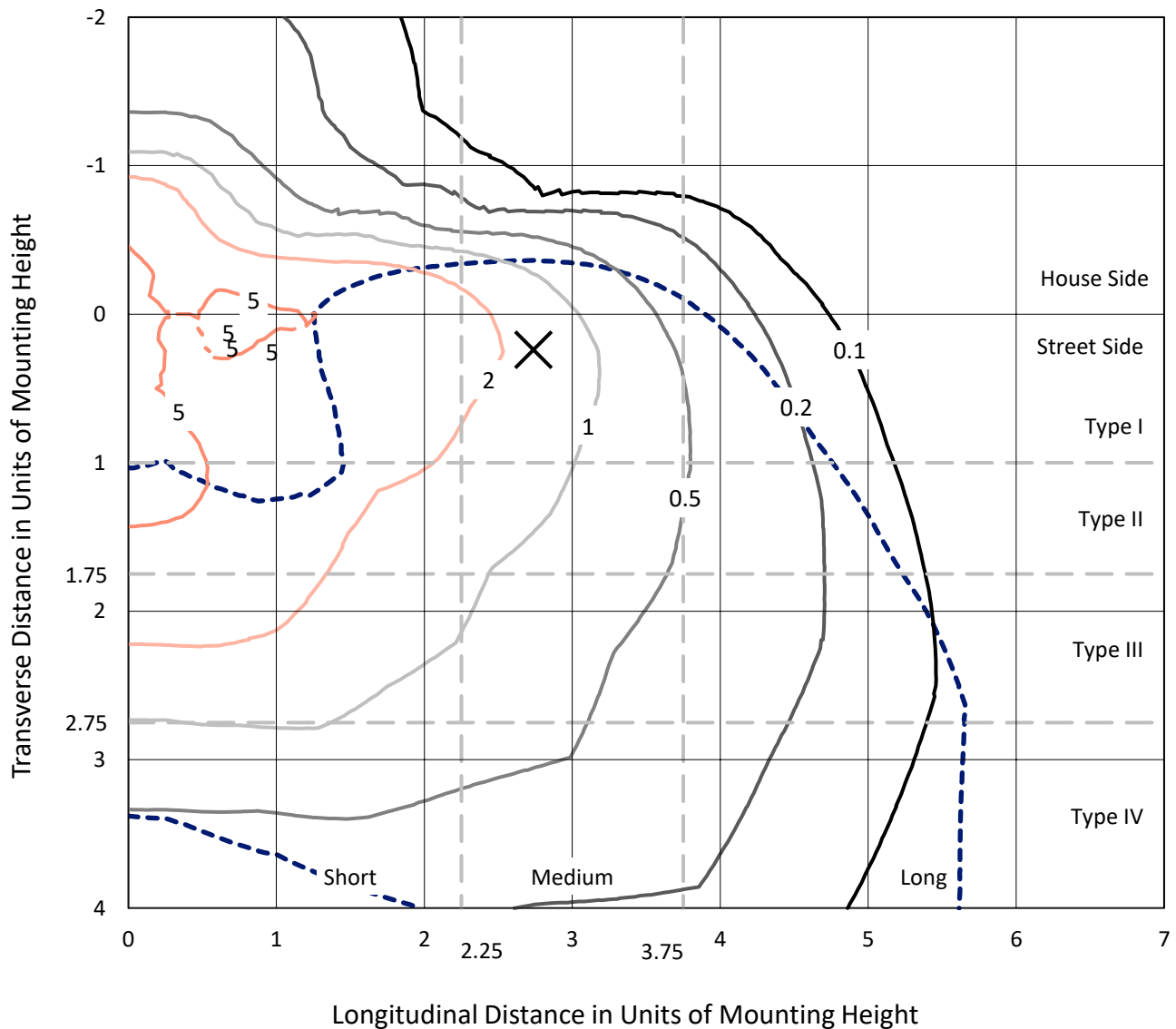


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

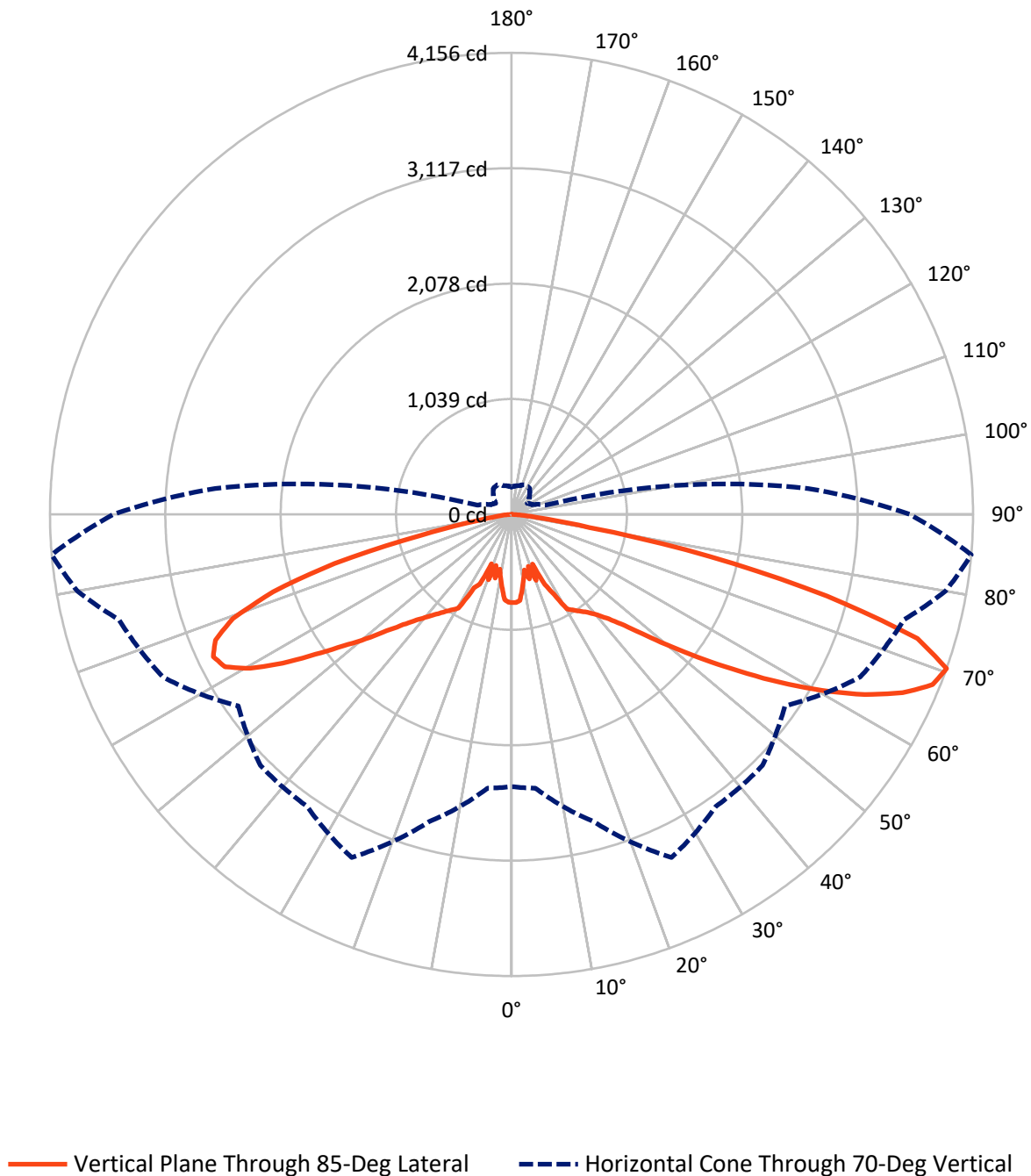


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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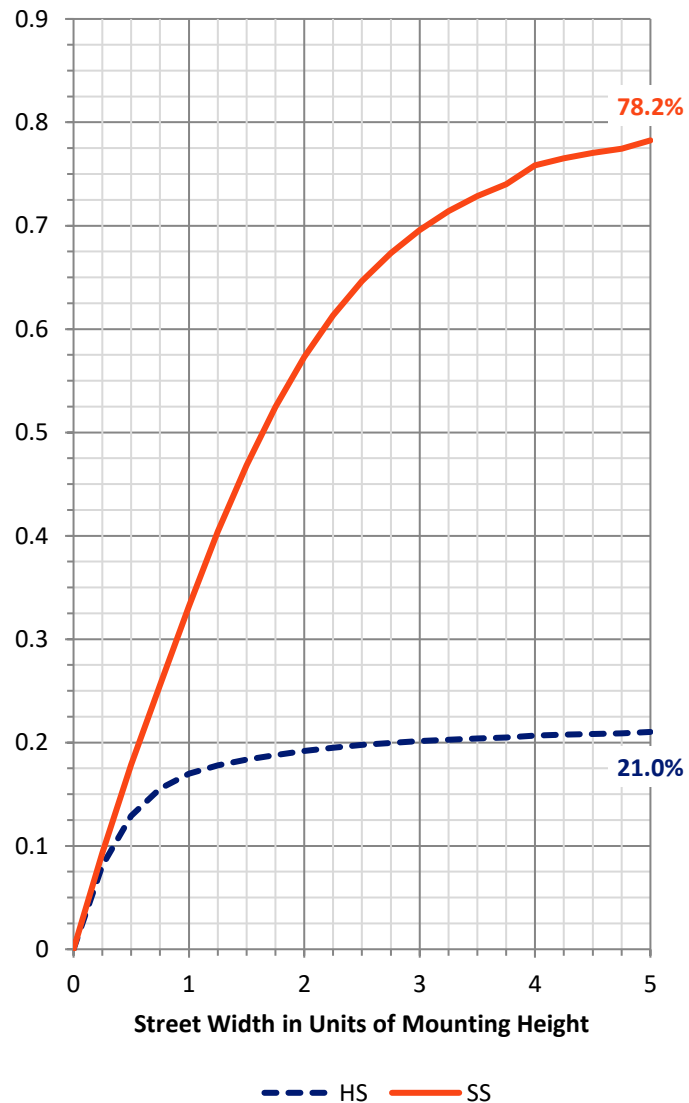
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1466.9	0.0	1466.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	5355.8	0.0	5355.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	6822.7	0.0	6822.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	1.0
10°-20°	166.0	2.4
20°-30°	290.3	4.3
30°-40°	511.3	7.5
40°-50°	771.3	11.3
50°-60°	1226.9	18.0
60°-70°	1799.2	26.4
70°-80°	1687.1	24.7
80°-90°	304.6	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°	6822.7	100.0
0°-180°	6822.7	100.0

Coefficient of Utilization



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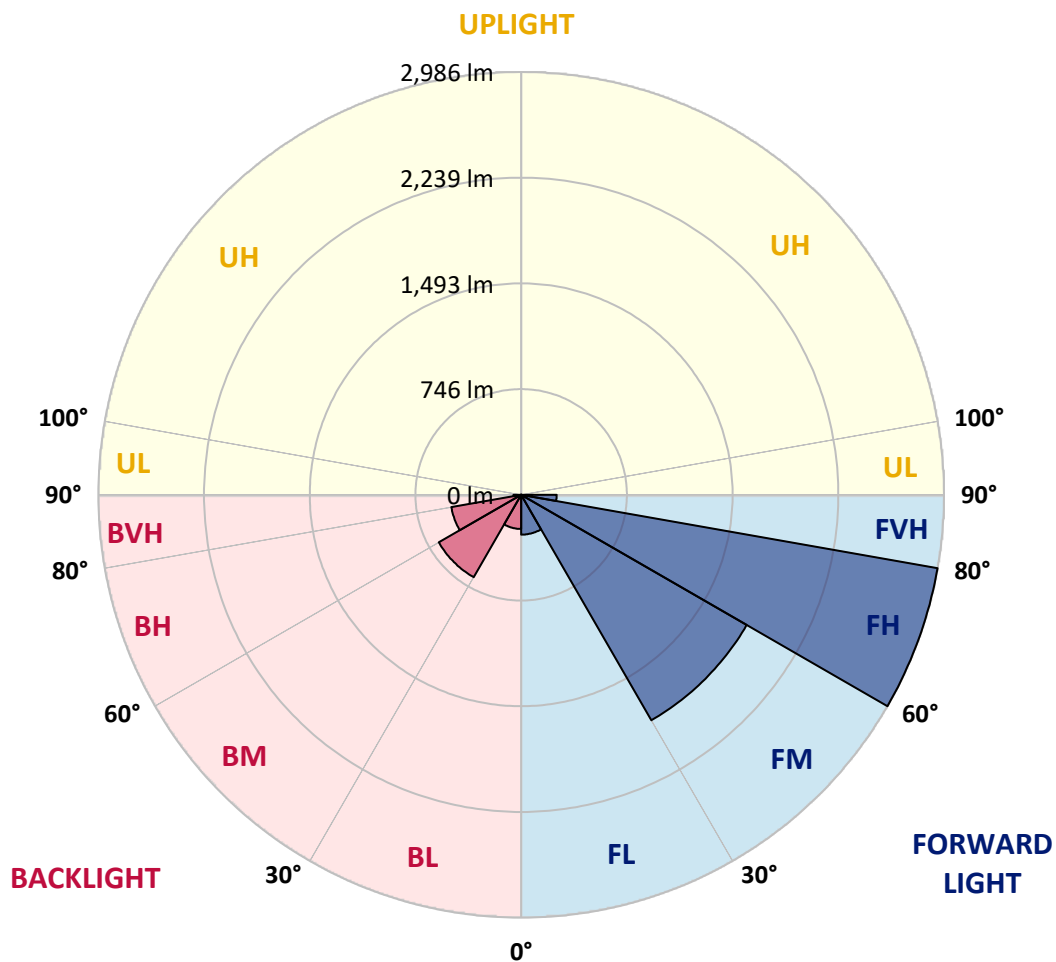
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	281.3	4.1			
FM	(30°-60°)	1838.1	26.9			
FH	(60°-80°)	2985.5	43.8			G2/5000
FVH	(80°-90°)	250.8	3.7			G3/500
BL	(0°-30°)	240.9	3.5	B1/500		
BM	(30°-60°)	671.5	9.8	B1/1000		
BH	(60°-80°)	500.7	7.3	B2/1000		G2/1000
BVH	(80°-90°)	53.8	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°	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4
2.5°	720.3	750.5	765.7	780.8	785.8	790.8	790.8	788.3	788.3	788.3	793.4
5°	732.9	730.4	730.4	730.4	727.9	725.4	722.8	717.8	715.3	710.3	707.7
7.5°	672.5	722.8	725.4	727.9	727.9	725.4	730.4	735.4	730.4	722.8	712.8
10°	798.4	795.9	790.8	785.8	778.3	770.7	712.8	652.3	657.4	662.4	614.5
12.5°	692.6	740.5	760.6	780.8	783.3	783.3	743.0	700.2	644.8	589.4	566.7
15°	846.3	841.2	831.1	821.1	753.1	682.5	642.2	602.0	602.0	602.0	533.9
17.5°	712.8	710.3	755.6	800.9	775.7	750.5	692.6	634.7	549.1	460.9	516.3
20°	874.0	874.0	861.4	848.8	732.9	614.5	622.1	627.1	629.7	629.7	604.5
22.5°	732.9	727.9	732.9	735.4	735.4	735.4	629.7	523.9	581.8	637.2	579.3
25°	874.0	876.5	874.0	871.4	765.7	657.4	675.0	692.6	612.0	528.9	584.3
27.5°	763.1	760.6	748.0	735.4	738.0	740.5	685.1	627.1	659.9	692.6	634.7
30°	934.4	936.9	929.4	919.3	813.5	707.7	702.7	695.1	672.5	649.8	670.0
32.5°	1128.3	1128.3	1050.3	972.2	906.7	838.7	783.3	727.9	750.5	773.2	748.0
35°	1231.6	1226.6	1201.4	1173.7	1052.8	929.4	853.8	775.7	783.3	788.3	788.3
37.5°	1415.5	1412.9	1377.7	1342.4	1178.7	1012.5	914.3	813.5	828.6	841.2	823.6
40°	1644.7	1644.7	1617.0	1586.7	1377.7	1166.1	1027.6	889.1	886.6	881.5	861.4
42.5°	1866.3	1873.9	1856.2	1838.6	1594.3	1350.0	1168.6	987.3	964.6	942.0	921.8
45°	2012.4	2022.5	2037.6	2052.7	1810.9	1569.1	1357.5	1143.5	1100.6	1055.3	1020.0
47.5°	2161.0	2145.9	2166.0	2186.2	1979.6	1773.1	1541.4	1309.7	1239.2	1168.6	1130.9
50°	2299.5	2294.5	2302.0	2309.6	2140.8	1972.1	1732.8	1493.5	1407.9	1319.8	1276.9
52.5°	2480.8	2463.2	2453.1	2443.1	2299.5	2155.9	1929.3	1700.1	1599.3	1496.1	1445.7
55°	2654.6	2647.1	2632.0	2614.3	2490.9	2367.5	2128.2	1889.0	1783.2	1677.4	1619.5
57.5°	2833.5	2828.4	2825.9	2823.4	2715.1	2606.8	2362.5	2115.6	1994.7	1871.3	1823.5
60°	3002.2	3004.7	3024.9	3042.5	2959.4	2876.3	2629.4	2382.6	2229.0	2072.8	2025.0
62.5°	3102.9	3110.5	3160.9	3208.7	3163.4	3118.1	2863.7	2606.8	2445.6	2281.9	2249.1
65°	2974.5	3012.3	3158.4	3304.4	3304.4	3304.4	3072.7	2838.5	2697.4	2556.4	2528.7
67.5°	2687.4	2725.2	2934.2	3140.7	3249.0	3357.3	3206.2	3055.1	2959.4	2861.2	2825.9
70°	2450.6	2473.3	2669.7	2863.7	3135.7	3407.7	3309.5	3208.7	3203.7	3196.1	3100.4
72.5°	2251.6	2302.0	2463.2	2621.9	2997.2	3372.4	3369.9	3367.4	3470.7	3573.9	3390.1
75°	1800.8	1795.8	1946.9	2098.0	2521.1	2941.8	3178.5	3412.7	3709.9	4004.6	3722.5
77.5°	803.4	858.9	1002.4	1146.0	1526.3	1904.1	2359.9	2815.8	3470.7	4123.0	3835.9
80°	229.2	241.8	282.1	319.9	498.7	675.0	1153.5	1629.5	2453.1	3274.2	3080.3
82.5°	120.9	125.9	151.1	173.8	224.2	272.0	453.4	632.2	1339.9	2045.1	1868.8
85°	57.9	52.9	68.0	80.6	108.3	136.0	209.0	282.1	518.8	755.6	652.3
87.5°	12.6	12.6	15.1	15.1	22.7	30.2	45.3	60.4	57.9	52.9	63.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4
2.5°	795.9	798.4	800.9	798.4	795.9	793.4	793.4	790.8	790.8	788.3	783.3
5°	705.2	740.5	775.7	778.3	780.8	780.8	778.3	775.7	770.7	768.2	763.1
7.5°	702.7	690.1	677.5	680.0	682.5	685.1	685.1	677.5	675.0	654.8	634.7
10°	564.2	551.6	539.0	546.5	554.1	581.8	596.9	591.9	586.8	551.6	513.8
12.5°	544.0	539.0	533.9	496.2	458.4	491.1	513.8	511.3	503.7	471.0	438.2
15°	465.9	468.5	468.5	511.3	554.1	581.8	602.0	596.9	591.9	551.6	511.3
17.5°	569.2	541.5	511.3	503.7	496.2	508.8	491.1	463.4	481.1	476.0	471.0
20°	576.8	508.8	438.2	508.8	579.3	596.9	634.7	632.2	624.6	589.4	554.1
22.5°	521.4	561.7	599.4	561.7	523.9	498.7	486.1	481.1	478.5	488.6	496.2
25°	639.7	564.2	486.1	579.3	670.0	690.1	700.2	692.6	690.1	644.8	599.4
27.5°	574.2	614.5	654.8	685.1	715.3	740.5	816.0	743.0	740.5	697.7	652.3
30°	687.6	730.4	773.2	851.3	929.4	972.2	987.3	982.3	969.7	901.7	833.7
32.5°	722.8	808.5	891.6	926.9	959.6	1004.9	1027.6	1025.1	1012.5	931.9	848.8
35°	788.3	851.3	914.3	962.1	1007.4	1050.3	1070.4	1078.0	1062.9	962.1	858.9
37.5°	806.0	886.6	967.2	1017.5	1067.9	1100.6	1118.3	1140.9	1123.3	1002.4	879.0
40°	841.2	936.9	1030.1	1080.5	1128.3	1158.6	1188.8	1216.5	1193.8	1047.7	899.1
42.5°	899.1	997.4	1093.1	1151.0	1206.4	1249.2	1284.5	1322.3	1279.5	1090.6	899.1
45°	984.8	1075.5	1166.1	1244.2	1319.8	1372.6	1423.0	1475.9	1390.3	1146.0	899.1
47.5°	1093.1	1181.2	1266.9	1390.3	1513.7	1561.5	1622.0	1672.4	1533.8	1216.5	899.1
50°	1231.6	1329.8	1428.1	1591.8	1753.0	1798.3	1873.9	1911.6	1725.3	1324.8	921.8
52.5°	1392.8	1501.1	1606.9	1798.3	1989.7	2065.3	2166.0	2191.2	1919.2	1433.1	944.5
55°	1561.5	1707.6	1851.2	2062.8	2271.8	2344.8	2488.4	2508.5	2168.5	1566.6	962.1
57.5°	1775.6	1946.9	2115.6	2322.2	2526.2	2629.4	2853.6	2861.2	2458.2	1730.3	999.9
60°	1977.1	2191.2	2402.8	2599.2	2795.7	2956.9	3216.3	3218.8	2730.2	1853.7	974.7
62.5°	2216.4	2470.8	2722.6	2891.4	3060.1	3259.1	3571.4	3526.1	2921.6	1868.8	816.0
65°	2498.5	2760.4	3022.3	3165.9	3307.0	3533.6	3871.1	3697.3	2974.5	1783.2	589.4
67.5°	2788.1	3032.4	3276.7	3390.1	3503.4	3790.5	4090.2	3717.5	2896.4	1654.7	410.5
70°	3004.7	3233.9	3463.1	3561.3	3659.6	3969.4	4155.7	3586.5	2677.3	1498.6	319.9
72.5°	3203.7	3420.3	3634.4	3684.7	3732.6	3891.3	3823.3	3160.9	2256.7	1261.8	264.5
75°	3440.4	3579.0	3715.0	3624.3	3533.6	3319.5	2934.2	2304.5	1652.2	939.4	226.7
77.5°	3548.7	3516.0	3480.7	3170.9	2861.2	2286.9	1823.5	1332.4	838.7	516.3	193.9
80°	2886.3	2755.4	2621.9	2103.1	1584.2	1083.0	710.3	450.8	307.3	231.7	156.2
82.5°	1690.0	1385.2	1080.5	793.4	506.2	355.1	231.7	183.9	143.6	136.0	125.9
85°	546.5	483.6	420.6	332.5	244.3	151.1	88.2	80.6	75.6	83.1	88.2
87.5°	73.0	73.0	70.5	52.9	32.7	17.6	10.1	7.6	7.6	10.1	10.1
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°	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4
2.5°	783.3	780.8	778.3	775.7	773.2	768.2	748.0	727.9	720.3	710.3	702.7
5°	738.0	712.8	695.1	677.5	670.0	659.9	662.4	664.9	667.4	667.4	667.4
7.5°	639.7	644.8	647.3	647.3	654.8	659.9	664.9	667.4	657.4	647.3	634.7
10°	508.8	501.2	511.3	518.8	531.4	541.5	574.2	607.0	637.2	667.4	680.0
12.5°	463.4	488.6	468.5	448.3	488.6	526.4	571.7	617.1	644.8	670.0	647.3
15°	471.0	428.2	433.2	435.7	486.1	533.9	506.2	478.5	556.6	632.2	654.8
17.5°	463.4	455.9	483.6	508.8	460.9	413.1	481.1	546.5	581.8	617.1	607.0
20°	501.2	445.8	445.8	445.8	488.6	531.4	498.7	465.9	503.7	541.5	604.5
22.5°	518.8	539.0	498.7	455.9	483.6	511.3	511.3	508.8	551.6	591.9	581.8
25°	523.9	448.3	483.6	516.3	498.7	478.5	501.2	521.4	533.9	546.5	602.0
27.5°	599.4	546.5	506.2	463.4	496.2	528.9	521.4	513.8	523.9	533.9	546.5
30°	710.3	586.8	541.5	493.7	476.0	455.9	478.5	498.7	536.5	574.2	624.6
32.5°	743.0	634.7	561.7	486.1	483.6	478.5	486.1	491.1	533.9	574.2	644.8
35°	738.0	614.5	544.0	471.0	455.9	440.8	453.4	463.4	526.4	589.4	657.4
37.5°	732.9	584.3	511.3	438.2	428.2	415.6	428.2	440.8	488.6	536.5	599.4
40°	725.4	549.1	478.5	405.5	392.9	380.3	392.9	403.0	440.8	478.5	528.9
42.5°	707.7	513.8	443.3	370.2	360.2	347.6	357.6	367.7	400.5	433.2	463.4
45°	687.6	473.5	405.5	337.5	327.4	317.3	324.9	329.9	360.2	387.9	403.0
47.5°	664.9	430.7	367.7	304.8	294.7	284.6	292.2	297.2	319.9	342.5	347.6
50°	659.9	395.4	337.5	277.0	269.5	259.4	264.5	269.5	287.1	302.2	302.2
52.5°	649.8	352.6	304.8	254.4	249.3	241.8	244.3	246.8	259.4	272.0	269.5
55°	642.2	322.4	279.6	236.8	231.7	224.2	226.7	229.2	241.8	251.9	249.3
57.5°	649.8	297.2	259.4	219.1	214.1	209.0	214.1	219.1	231.7	244.3	244.3
60°	624.6	272.0	236.8	201.5	199.0	193.9	206.5	216.6	236.8	254.4	259.4
62.5°	533.9	249.3	219.1	188.9	191.4	191.4	214.1	234.2	261.9	287.1	292.2
65°	410.5	231.7	206.5	178.8	191.4	204.0	234.2	264.5	289.6	314.8	307.3
67.5°	314.8	219.1	199.0	176.3	204.0	229.2	256.9	284.6	297.2	307.3	294.7
70°	264.5	206.5	191.4	173.8	201.5	229.2	256.9	284.6	289.6	294.7	282.1
72.5°	231.7	196.5	181.3	166.2	188.9	211.6	244.3	274.5	279.6	282.1	269.5
75°	206.5	183.9	166.2	148.6	171.3	191.4	224.2	256.9	261.9	264.5	254.4
77.5°	181.3	168.7	148.6	128.4	151.1	173.8	204.0	234.2	241.8	249.3	236.8
80°	151.1	143.6	128.4	113.3	138.5	161.2	188.9	216.6	224.2	231.7	219.1
82.5°	120.9	115.9	105.8	95.7	120.9	146.1	173.8	199.0	206.5	211.6	196.5
85°	88.2	88.2	83.1	78.1	103.3	125.9	143.6	161.2	158.7	156.2	146.1
87.5°	12.6	12.6	17.6	22.7	30.2	35.3	45.3	52.9	55.4	55.4	42.8
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):

	165°	170°	175°	180°
0°	793.4	793.4	793.4	793.4
2.5°	695.1	695.1	692.6	697.7
5°	667.4	670.0	670.0	672.5
7.5°	622.1	609.5	594.4	596.9
10°	692.6	695.1	697.7	697.7
12.5°	622.1	612.0	599.4	602.0
15°	675.0	682.5	690.1	692.6
17.5°	594.4	591.9	589.4	586.8
20°	664.9	677.5	690.1	690.1
22.5°	571.7	571.7	571.7	574.2
25°	657.4	672.5	685.1	685.1
27.5°	556.6	591.9	627.1	654.8
30°	672.5	680.0	687.6	690.1
32.5°	712.8	750.5	785.8	793.4
35°	722.8	740.5	755.6	763.1
37.5°	662.4	677.5	692.6	702.7
40°	576.8	589.4	602.0	609.5
42.5°	491.1	493.7	496.2	508.8
45°	418.1	405.5	392.9	390.4
47.5°	350.1	332.5	314.8	312.3
50°	299.7	284.6	269.5	269.5
52.5°	264.5	254.4	244.3	244.3
55°	246.8	241.8	234.2	234.2
57.5°	244.3	241.8	239.3	239.3
60°	261.9	264.5	264.5	264.5
62.5°	294.7	297.2	297.2	297.2
65°	297.2	292.2	287.1	287.1
67.5°	282.1	274.5	267.0	261.9
70°	267.0	261.9	254.4	246.8
72.5°	254.4	249.3	241.8	234.2
75°	241.8	234.2	224.2	219.1
77.5°	224.2	219.1	211.6	206.5
80°	204.0	199.0	191.4	181.3
82.5°	181.3	183.9	183.9	158.7
85°	133.5	125.9	115.9	95.7
87.5°	27.7	25.2	20.1	17.6
90°	0.0	0.0	0.0	0.0

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