

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: P561157

Luminaire Tested: **SDL-PA1-80-827-U-T2U**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561157
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-PA1-80-827-U-T2U
Description: Springdale
(1) 80 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6939.7 lumens
Efficiency: N/A
Efficacy: 84.6 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

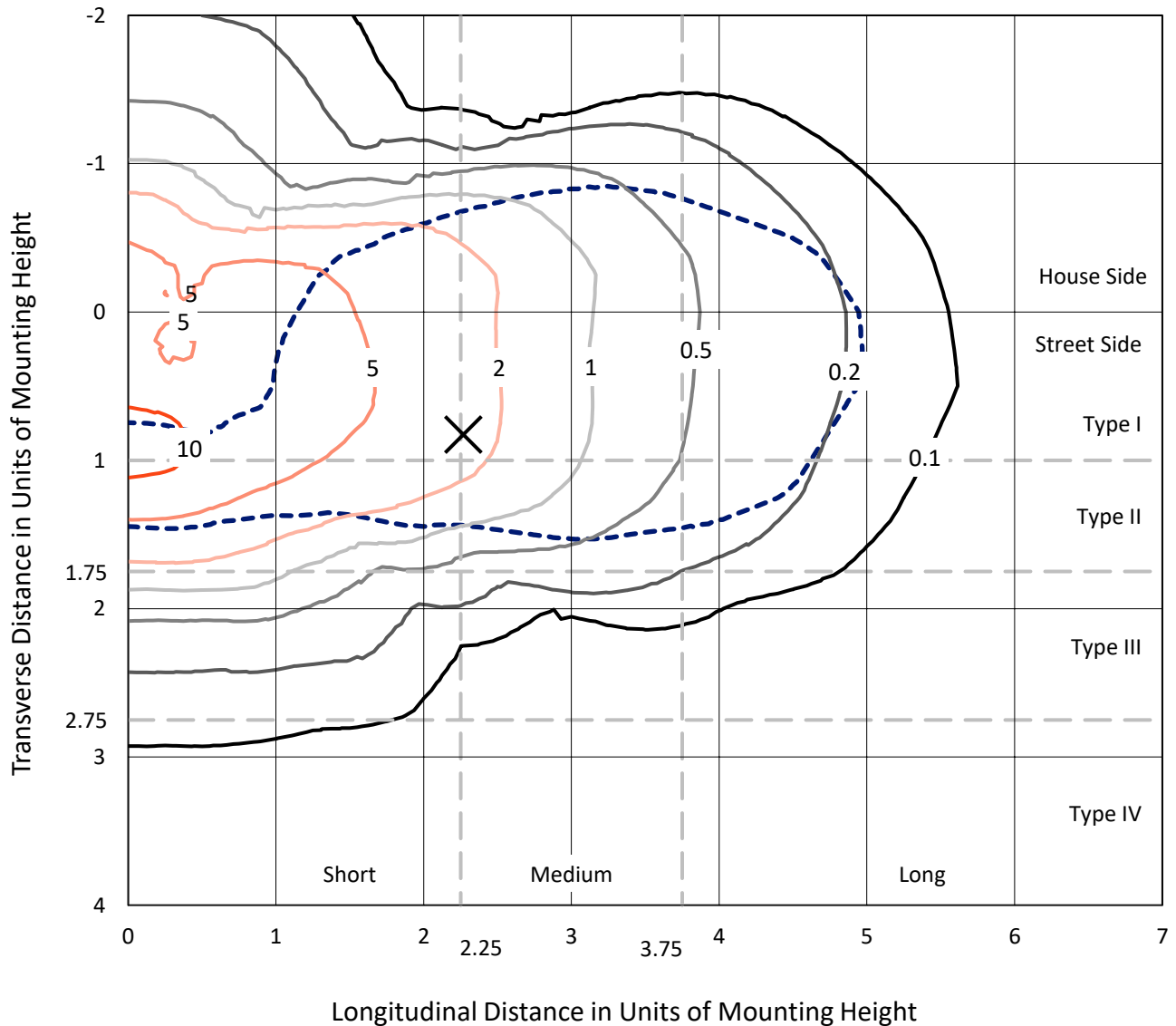
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

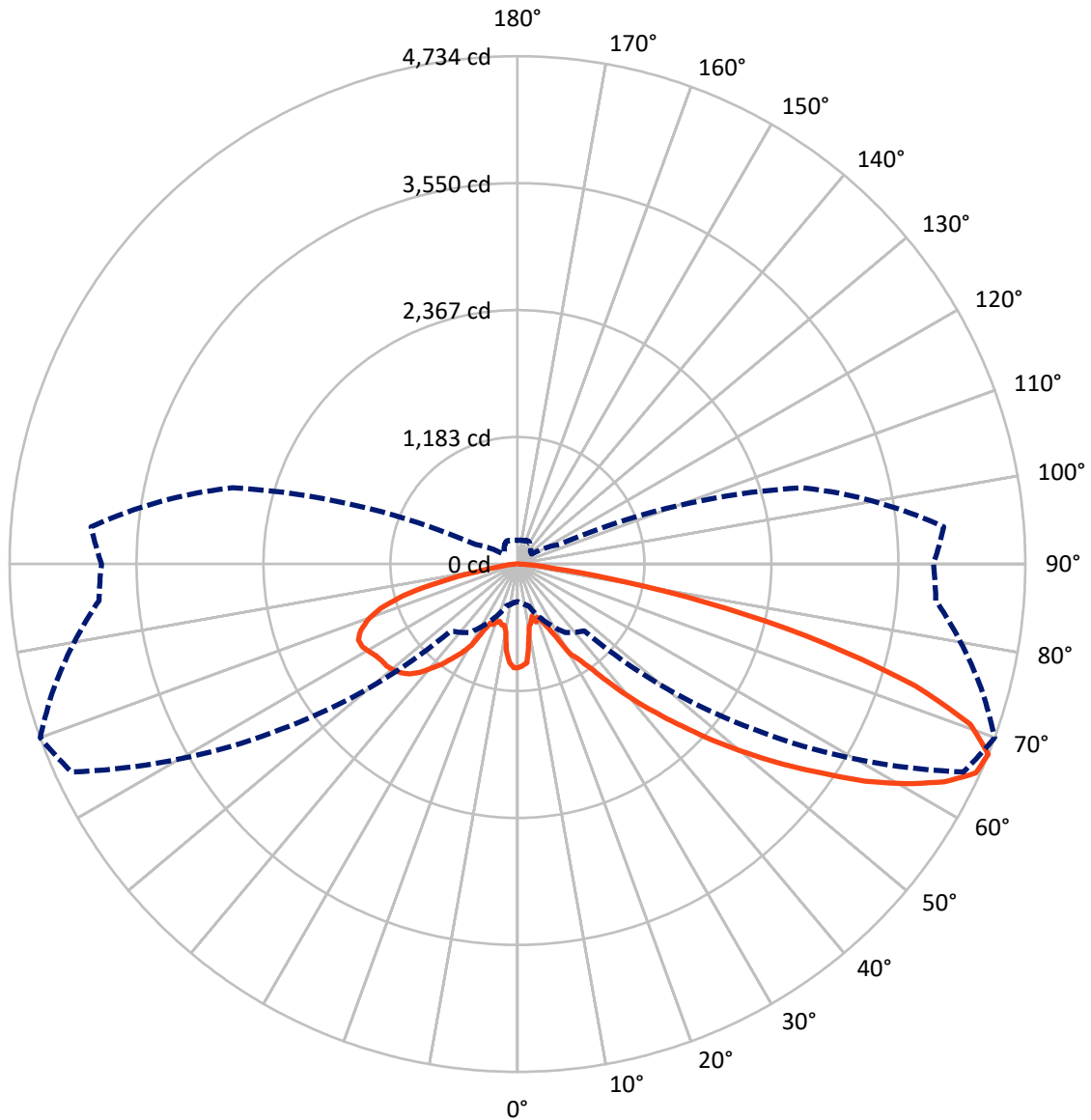
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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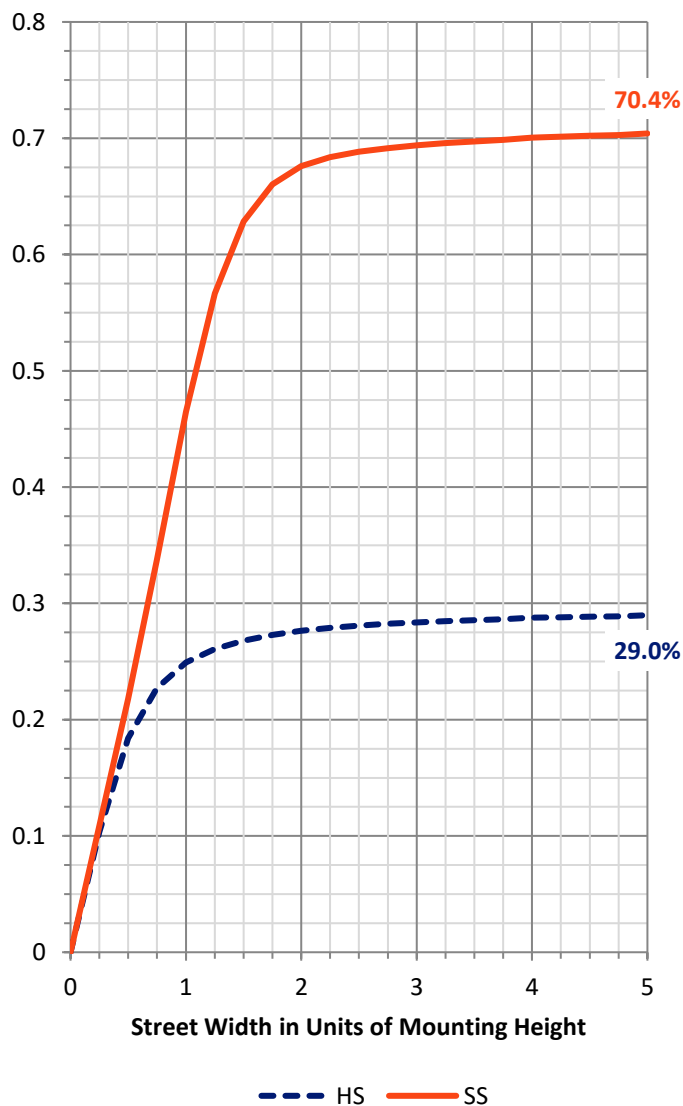
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2035.1	0.0	2035.1
	% Fixture	29.3	0.0	29.3
Street Side	Lumens	4904.6	0.0	4904.6
	% Fixture	70.7	0.0	70.7
Total	Lumens	6939.7	0.0	6939.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	1.1
10°-20°	181.7	2.6
20°-30°	322.8	4.7
30°-40°	682.4	9.8
40°-50°	1249.2	18.0
50°-60°	1704.2	24.6
60°-70°	1606.7	23.2
70°-80°	972.4	14.0
80°-90°	142.8	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°	6939.7	100.0
0°-180°	6939.7	100.0



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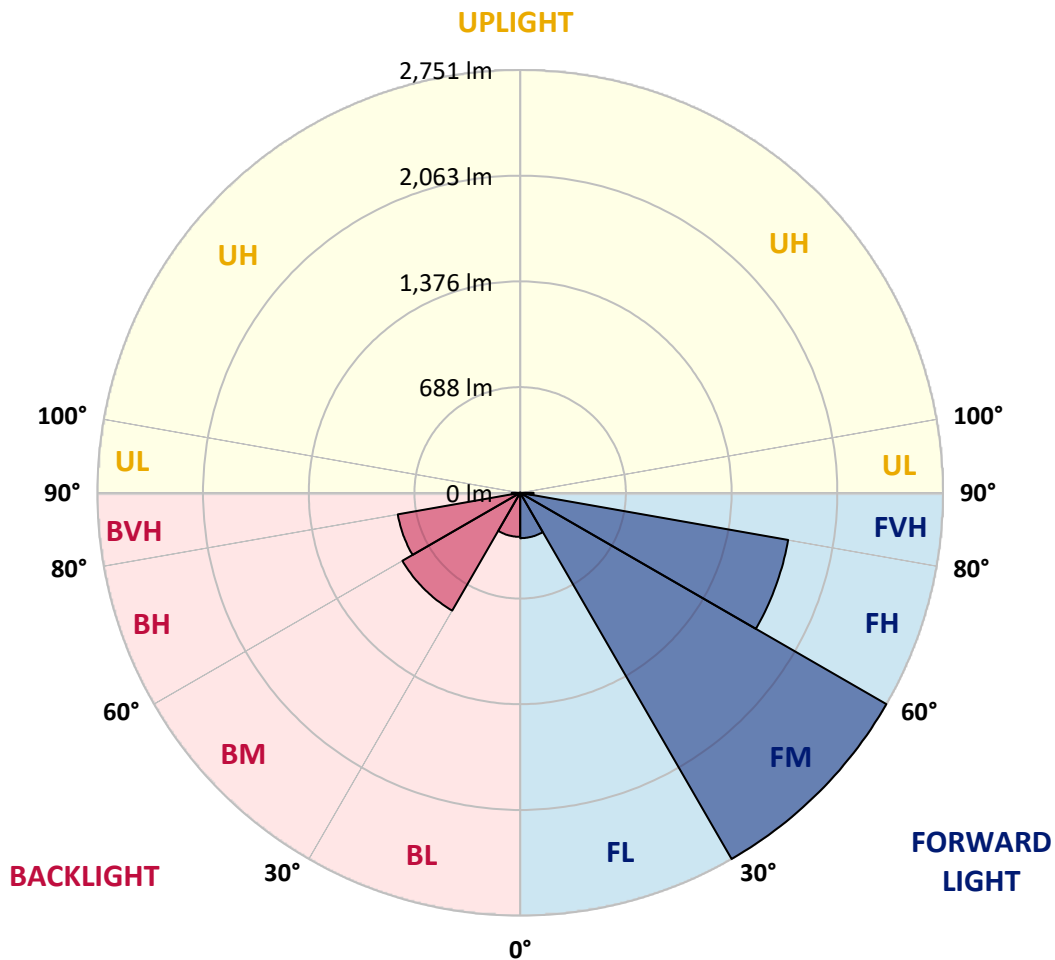
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	295.3	4.3			
FM (30°-60°)	2751.2	39.6			
FH (60°-80°)	1770.5	25.5			G1/1800
FVH (80°-90°)	87.6	1.3			G1/100
BL (0°-30°)	286.6	4.1	B1/500		
BM (30°-60°)	884.7	12.7	B1/1000		
BH (60°-80°)	808.5	11.7	B2/1000		G2/1000
BVH (80°-90°)	55.3	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°	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3
2.5°	811.5	819.0	868.9	918.8	921.3	921.3	923.8	926.3	933.8	938.8	943.8
5°	756.5	761.5	761.5	761.5	764.0	766.5	769.0	769.0	774.0	776.5	781.5
7.5°	634.2	684.1	701.6	716.6	726.6	734.1	739.1	744.0	749.0	754.0	759.0
10°	721.6	721.6	724.1	724.1	724.1	721.6	671.6	619.2	644.2	669.1	631.7
12.5°	594.2	604.2	649.2	691.6	704.1	714.1	689.1	661.7	616.7	571.8	566.8
15°	706.6	706.6	706.6	704.1	659.2	611.7	564.3	514.3	544.3	574.3	529.3
17.5°	611.7	611.7	649.2	684.1	681.6	676.6	634.2	589.2	519.3	446.9	504.4
20°	771.5	769.0	756.5	741.6	649.2	556.8	576.8	596.7	601.7	604.2	586.7
22.5°	689.1	691.6	706.6	721.6	724.1	726.6	619.2	509.3	571.8	634.2	574.3
25°	958.8	953.8	931.3	906.3	804.0	699.1	719.1	739.1	636.7	531.8	596.7
27.5°	911.3	896.4	886.4	876.4	893.9	911.3	816.5	719.1	741.6	764.0	681.6
30°	1303.3	1303.3	1278.4	1250.9	1096.1	938.8	913.8	888.9	828.9	766.5	781.5
32.5°	1650.4	1650.4	1558.0	1463.1	1370.7	1278.4	1156.0	1033.7	1008.7	981.2	956.3
35°	2077.3	2064.9	2012.4	1957.5	1757.8	1558.0	1400.7	1243.4	1193.5	1143.5	1118.6
37.5°	2476.8	2449.4	2377.0	2302.1	2092.3	1880.1	1672.9	1465.6	1410.7	1355.8	1300.8
40°	2806.4	2791.4	2741.5	2689.1	2451.9	2214.7	1980.0	1742.8	1670.4	1598.0	1518.1
42.5°	3108.5	3096.0	3051.1	3003.7	2769.0	2531.8	2309.5	2084.8	1977.5	1870.1	1775.2
45°	3330.7	3310.8	3280.8	3248.3	3061.1	2871.3	2646.6	2419.4	2377.0	2334.5	2149.8
47.5°	3400.7	3365.7	3360.7	3355.7	3205.9	3056.1	2876.3	2696.6	2704.0	2711.5	2496.8
50°	3298.3	3245.8	3268.3	3290.8	3230.9	3168.4	3028.6	2888.8	2951.2	3011.1	2841.4
52.5°	2926.3	2913.8	2971.2	3026.1	3041.1	3056.1	3026.1	2993.7	3108.5	3223.4	3161.0
55°	2414.4	2469.3	2549.2	2629.1	2691.6	2751.5	2838.9	2926.3	3123.5	3320.8	3365.7
57.5°	1902.6	1960.0	2052.4	2144.8	2217.2	2289.6	2469.3	2649.1	2946.2	3243.4	3445.6
60°	1280.9	1340.8	1493.1	1642.9	1745.3	1847.6	2009.9	2172.2	2546.7	2921.3	3330.7
62.5°	853.9	833.9	961.3	1086.1	1250.9	1415.7	1488.1	1558.0	1950.0	2339.5	3001.2
65°	524.3	526.8	576.8	624.2	806.5	986.2	1043.7	1098.6	1320.8	1543.0	2444.4
67.5°	352.0	359.5	382.0	404.5	491.9	579.3	679.1	779.0	831.4	881.4	1782.7
70°	312.1	314.6	324.6	334.6	359.5	384.5	476.9	569.3	539.3	506.9	1011.2
72.5°	274.6	277.1	294.6	309.6	322.1	334.6	389.5	444.4	409.5	374.5	504.4
75°	224.7	232.2	249.7	264.7	289.6	312.1	324.6	337.1	319.6	299.6	324.6
77.5°	184.8	189.8	202.2	214.7	239.7	262.2	274.6	287.1	259.7	232.2	247.2
80°	144.8	147.3	157.3	167.3	187.3	204.7	219.7	232.2	207.2	179.8	187.3
82.5°	87.4	89.9	104.9	117.3	134.8	149.8	159.8	167.3	174.8	179.8	157.3
85°	47.4	47.4	57.4	67.4	69.9	72.4	82.4	89.9	112.4	132.3	114.9
87.5°	7.5	7.5	10.0	10.0	15.0	17.5	20.0	20.0	22.5	22.5	25.0
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°	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3
2.5°	946.3	948.8	948.8	948.8	951.3	953.8	956.3	956.3	958.8	961.3	963.8
5°	786.5	851.4	913.8	923.8	931.3	936.3	941.3	943.8	948.8	953.8	956.3
7.5°	764.0	764.0	764.0	746.5	811.5	819.0	826.4	831.4	836.4	831.4	823.9
10°	591.7	591.7	589.2	594.2	621.7	669.1	714.1	719.1	724.1	684.1	641.7
12.5°	559.3	566.8	574.3	561.8	511.8	554.3	596.7	604.2	606.7	571.8	534.3
15°	481.9	484.4	486.9	504.4	606.7	649.2	691.6	699.1	706.6	669.1	629.2
17.5°	559.3	541.8	521.8	569.3	529.3	556.8	581.8	521.8	576.8	566.8	556.8
20°	569.3	509.3	446.9	531.8	621.7	664.2	704.1	709.1	711.6	681.6	649.2
22.5°	514.3	571.8	629.2	571.8	536.8	531.8	526.8	524.3	526.8	544.3	559.3
25°	661.7	589.2	516.8	649.2	731.6	751.5	771.5	761.5	756.5	719.1	681.6
27.5°	599.2	656.7	711.6	766.5	791.5	819.0	843.9	851.4	811.5	771.5	731.6
30°	794.0	828.9	861.4	973.8	1056.1	1081.1	1106.1	1081.1	1066.1	1016.2	963.8
32.5°	928.8	998.7	1068.6	1066.1	1143.5	1163.5	1181.0	1148.5	1121.1	1066.1	1008.7
35°	1093.6	1138.5	1183.5	1208.5	1285.9	1293.3	1300.8	1258.4	1218.4	1153.5	1088.6
37.5°	1245.9	1303.3	1358.3	1420.7	1488.1	1473.1	1455.6	1403.2	1338.3	1288.4	1238.4
40°	1435.7	1505.6	1575.5	1655.4	1695.3	1672.9	1647.9	1568.0	1505.6	1453.1	1400.7
42.5°	1677.9	1752.8	1825.2	1895.1	1910.1	1885.1	1857.6	1770.2	1675.4	1622.9	1568.0
45°	1962.5	2022.4	2082.3	2154.7	2184.7	2139.8	2092.3	1982.5	1870.1	1795.2	1720.3
47.5°	2279.6	2307.0	2334.5	2459.4	2499.3	2424.4	2347.0	2227.2	2069.9	1972.5	1872.6
50°	2671.6	2664.1	2654.1	2764.0	2856.3	2731.5	2604.2	2464.3	2309.5	2172.2	2032.4
52.5°	3098.5	3026.1	2951.2	3098.5	3143.5	2993.7	2843.9	2694.1	2539.3	2362.0	2182.2
55°	3410.6	3370.7	3330.7	3435.6	3430.6	3255.8	3078.6	2901.3	2774.0	2536.8	2299.6
57.5°	3645.3	3680.3	3712.8	3817.6	3697.8	3498.0	3298.3	3121.0	3011.1	2714.0	2416.9
60°	3737.7	3917.5	4094.8	4157.2	3974.9	3750.2	3523.0	3348.2	3255.8	2896.3	2536.8
62.5°	3662.8	4059.8	4456.8	4469.3	4229.6	3977.4	3725.2	3582.9	3535.5	3093.5	2649.1
65°	3345.7	3999.9	4651.6	4696.5	4426.8	4162.2	3895.0	3790.2	3820.1	3278.3	2734.0
67.5°	2681.6	3635.4	4586.6	4733.9	4474.3	4194.6	3915.0	3877.5	3989.9	3368.2	2746.5
70°	1515.6	2793.9	4069.8	4479.3	4341.9	4064.8	3785.2	3802.6	3969.9	3318.3	2666.6
72.5°	631.7	1932.5	3233.4	3875.0	3994.9	3760.2	3523.0	3587.9	3702.8	3083.6	2461.9
75°	349.6	1233.4	2117.3	2971.2	3340.7	3278.3	3213.4	3285.8	3230.9	2631.6	2032.4
77.5°	259.7	666.6	1073.6	1990.0	2514.3	2656.6	2796.4	2831.4	2524.3	1922.5	1320.8
80°	194.8	317.1	436.9	1016.2	1348.3	1602.9	1857.6	1700.3	1485.6	1038.7	591.7
82.5°	134.8	182.3	229.7	327.1	524.3	604.2	681.6	649.2	486.9	342.1	194.8
85°	94.9	119.8	144.8	179.8	224.7	179.8	134.8	109.9	127.3	117.3	107.4
87.5°	25.0	25.0	22.5	25.0	17.5	15.0	12.5	10.0	10.0	10.0	10.0
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°	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3
2.5°	966.3	968.8	968.8	968.8	968.8	966.3	953.8	941.3	911.3	881.4	871.4
5°	923.8	891.4	866.4	841.4	841.4	841.4	846.4	851.4	853.9	856.4	858.9
7.5°	823.9	821.4	831.4	841.4	848.9	856.4	861.4	866.4	856.4	846.4	823.9
10°	644.2	644.2	656.7	666.6	684.1	701.6	751.5	801.5	843.9	886.4	893.9
12.5°	584.3	631.7	604.2	574.3	636.7	699.1	754.0	806.5	848.9	888.9	856.4
15°	586.7	541.8	551.8	561.8	629.2	696.6	646.7	594.2	694.1	791.5	814.0
17.5°	559.3	561.8	606.7	651.7	584.3	514.3	601.7	689.1	726.6	761.5	729.1
20°	574.3	496.9	549.3	601.7	649.2	694.1	649.2	601.7	614.2	626.7	711.6
22.5°	606.7	654.2	609.2	564.3	619.2	671.6	649.2	626.7	666.6	704.1	669.1
25°	604.2	524.3	599.2	674.1	624.2	571.8	599.2	626.7	606.7	584.3	649.2
27.5°	696.6	661.7	641.7	619.2	646.7	674.1	616.7	559.3	559.3	559.3	551.8
30°	871.4	779.0	739.1	696.6	629.2	561.8	541.8	521.8	524.3	526.8	564.3
32.5°	973.8	938.8	819.0	699.1	636.7	574.3	521.8	469.4	474.4	479.4	526.8
35°	1063.6	1036.2	876.4	714.1	611.7	506.9	461.9	414.5	436.9	456.9	496.9
37.5°	1166.0	1091.1	873.9	654.2	544.3	434.4	407.0	379.5	394.5	407.0	431.9
40°	1258.4	1113.6	851.4	586.7	476.9	364.5	352.0	337.1	349.6	362.0	377.0
42.5°	1358.3	1146.0	819.0	489.4	402.0	314.6	309.6	304.6	317.1	329.6	339.6
45°	1435.7	1151.0	776.5	399.5	342.1	284.6	284.6	282.1	294.6	304.6	309.6
47.5°	1485.6	1096.1	709.1	319.6	294.6	269.7	272.2	272.2	282.1	289.6	292.1
50°	1520.6	1006.2	644.2	282.1	269.7	257.2	257.2	257.2	267.2	274.6	279.6
52.5°	1545.5	906.3	584.3	259.7	254.7	247.2	247.2	244.7	257.2	269.7	272.2
55°	1553.0	804.0	524.3	242.2	237.2	232.2	237.2	239.7	254.7	267.2	269.7
57.5°	1570.5	724.1	474.4	224.7	222.2	219.7	227.2	234.7	249.7	264.7	264.7
60°	1605.4	671.6	439.4	207.2	207.2	207.2	219.7	229.7	244.7	259.7	257.2
62.5°	1637.9	624.2	407.0	189.8	192.3	194.8	209.7	224.7	239.7	254.7	252.2
65°	1642.9	549.3	362.0	174.8	179.8	182.3	199.7	217.2	232.2	247.2	242.2
67.5°	1588.0	429.5	294.6	159.8	167.3	172.3	192.3	209.7	224.7	237.2	232.2
70°	1488.1	307.1	227.2	147.3	154.8	159.8	179.8	197.2	209.7	222.2	217.2
72.5°	1340.8	219.7	177.3	134.8	139.8	144.8	162.3	179.8	194.8	207.2	202.2
75°	1106.1	177.3	149.8	122.3	127.3	129.8	147.3	162.3	177.3	189.8	182.3
77.5°	734.1	144.8	127.3	109.9	112.4	114.9	129.8	142.3	154.8	164.8	159.8
80°	354.5	117.3	107.4	94.9	97.4	97.4	109.9	122.3	132.3	139.8	137.3
82.5°	144.8	92.4	84.9	77.4	77.4	77.4	89.9	99.9	109.9	117.3	112.4
85°	89.9	72.4	67.4	59.9	57.4	54.9	59.9	64.9	69.9	72.4	69.9
87.5°	12.5	12.5	15.0	17.5	15.0	10.0	15.0	20.0	20.0	17.5	15.0
90°	0.0	0.0	7.5	7.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	966.3	966.3	966.3	966.3
2.5°	861.4	861.4	861.4	866.4
5°	858.9	858.9	858.9	863.9
7.5°	801.5	776.5	751.5	754.0
10°	898.9	901.3	901.3	903.8
12.5°	821.4	781.5	741.6	746.5
15°	836.4	836.4	833.9	836.4
17.5°	696.6	684.1	671.6	671.6
20°	796.5	796.5	796.5	796.5
22.5°	634.2	631.7	629.2	631.7
25°	714.1	716.6	716.6	714.1
27.5°	544.3	576.8	606.7	609.2
30°	599.2	599.2	599.2	599.2
32.5°	574.3	599.2	624.2	626.7
35°	534.3	531.8	529.3	536.8
37.5°	454.4	449.4	444.4	444.4
40°	392.0	382.0	372.0	372.0
42.5°	347.1	339.6	329.6	327.1
45°	314.6	307.1	297.1	297.1
47.5°	292.1	287.1	282.1	279.6
50°	282.1	277.1	272.2	272.2
52.5°	274.6	272.2	267.2	267.2
55°	269.7	267.2	262.2	262.2
57.5°	264.7	262.2	257.2	257.2
60°	254.7	252.2	249.7	249.7
62.5°	247.2	244.7	242.2	242.2
65°	237.2	237.2	234.7	232.2
67.5°	224.7	224.7	224.7	219.7
70°	209.7	209.7	209.7	204.7
72.5°	194.8	194.8	192.3	184.8
75°	174.8	172.3	169.8	164.8
77.5°	154.8	149.8	144.8	142.3
80°	132.3	127.3	122.3	117.3
82.5°	104.9	102.4	97.4	84.9
85°	64.9	57.4	47.4	42.4
87.5°	12.5	10.0	7.5	2.5
90°	0.0	0.0	0.0	0.0

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