

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: P561077

Luminaire Tested: **SDL-PA1-80-730-U-T4W**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561077
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-PA1-80-730-U-T4W
Description: Springdale
(1) 70 CRI, 3000K, 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: 8452.1 lumens
Efficiency: N/A
Efficacy: 103.1 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

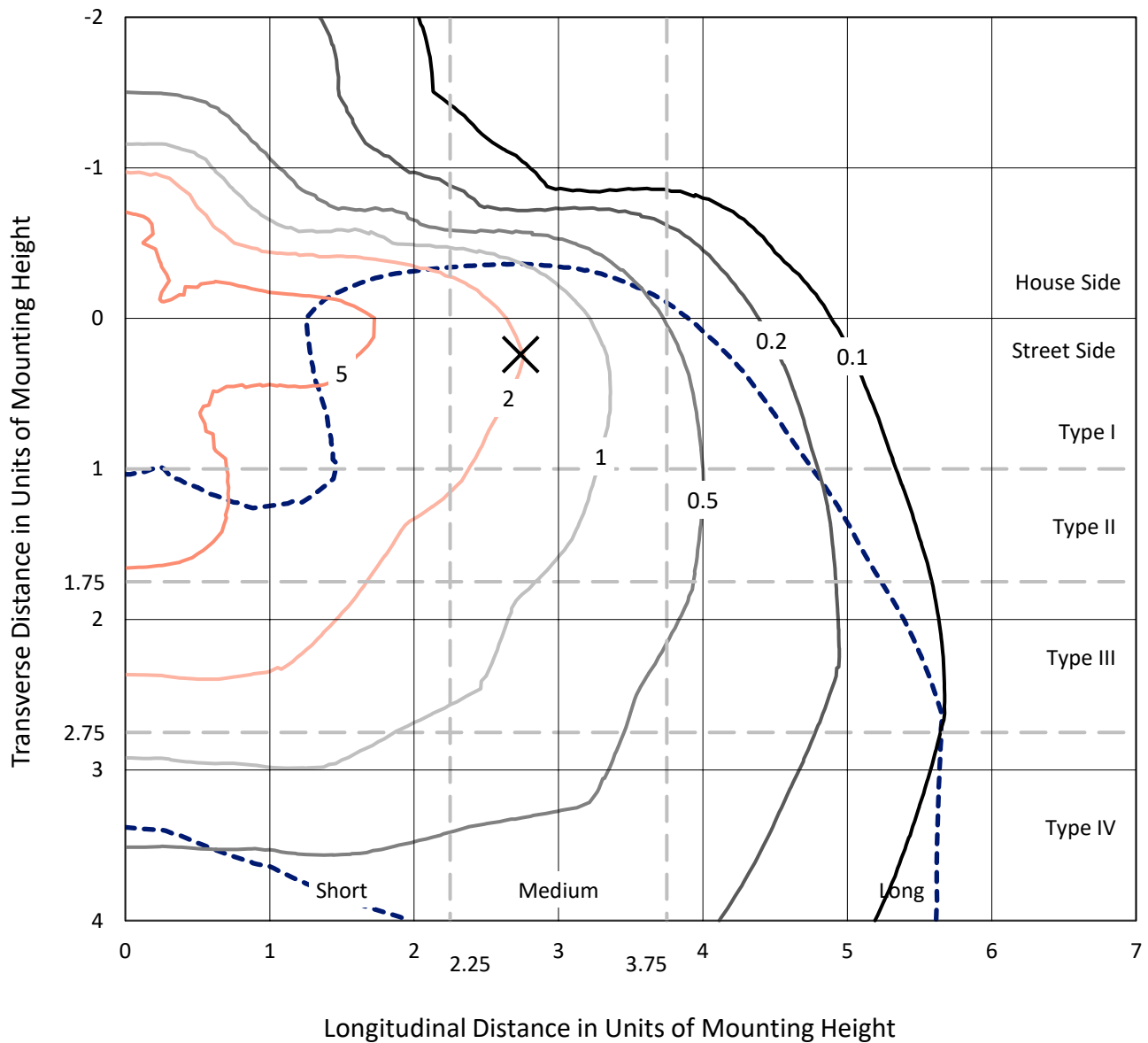


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

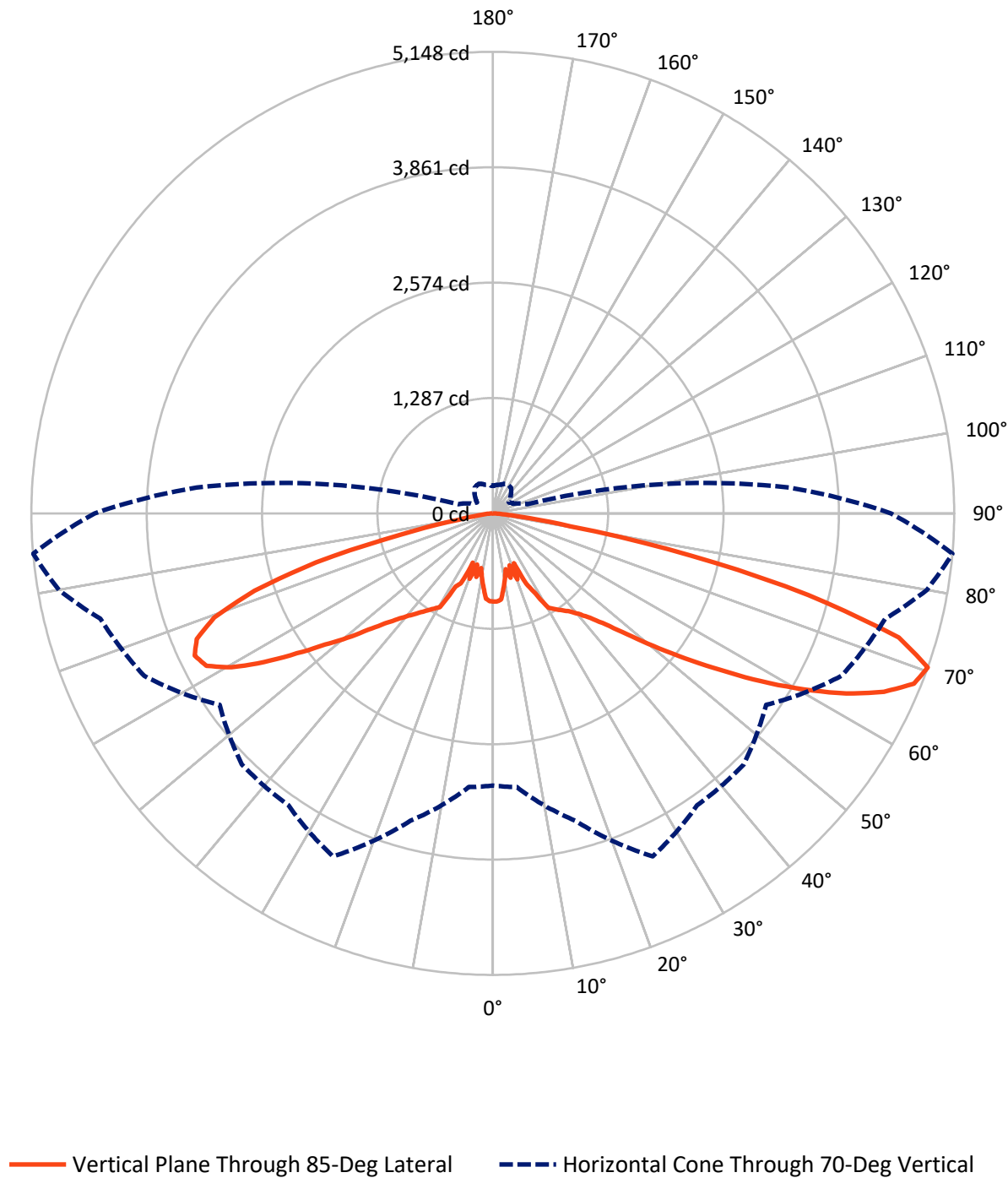


Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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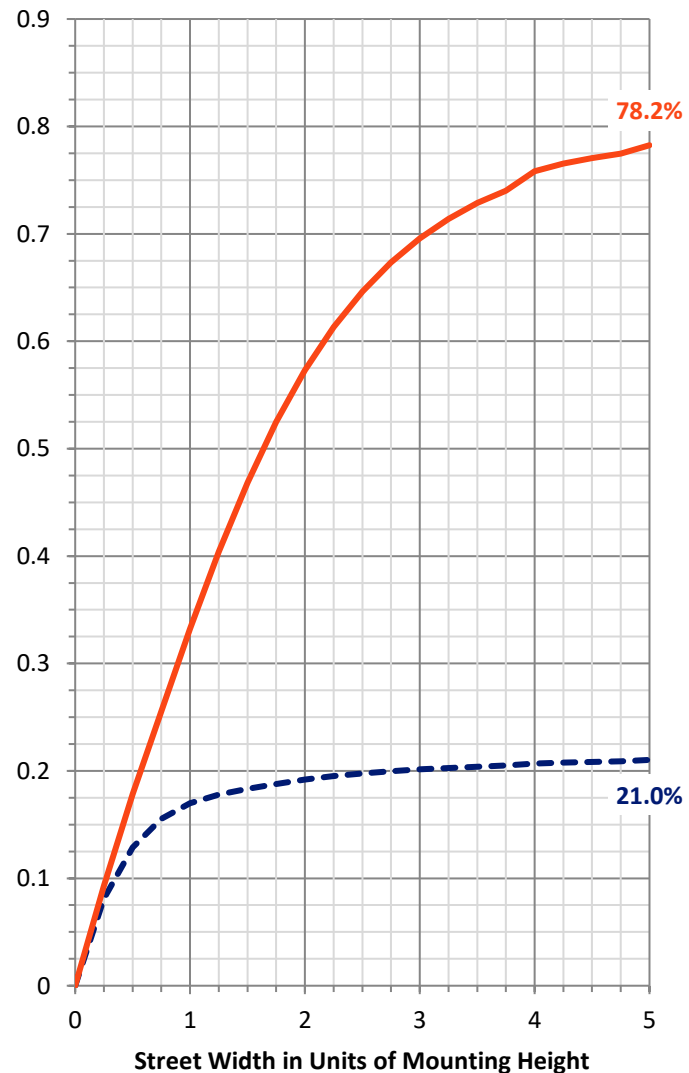
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1817.3	0.0	1817.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	6634.8	0.0	6634.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	8452.1	0.0	8452.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	1.0
10°-20°	205.7	2.4
20°-30°	359.6	4.3
30°-40°	633.4	7.5
40°-50°	955.5	11.3
50°-60°	1520.0	18.0
60°-70°	2228.9	26.4
70°-80°	2090.0	24.7
80°-90°	377.4	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°	8452.1	100.0
0°-180°	8452.1	100.0



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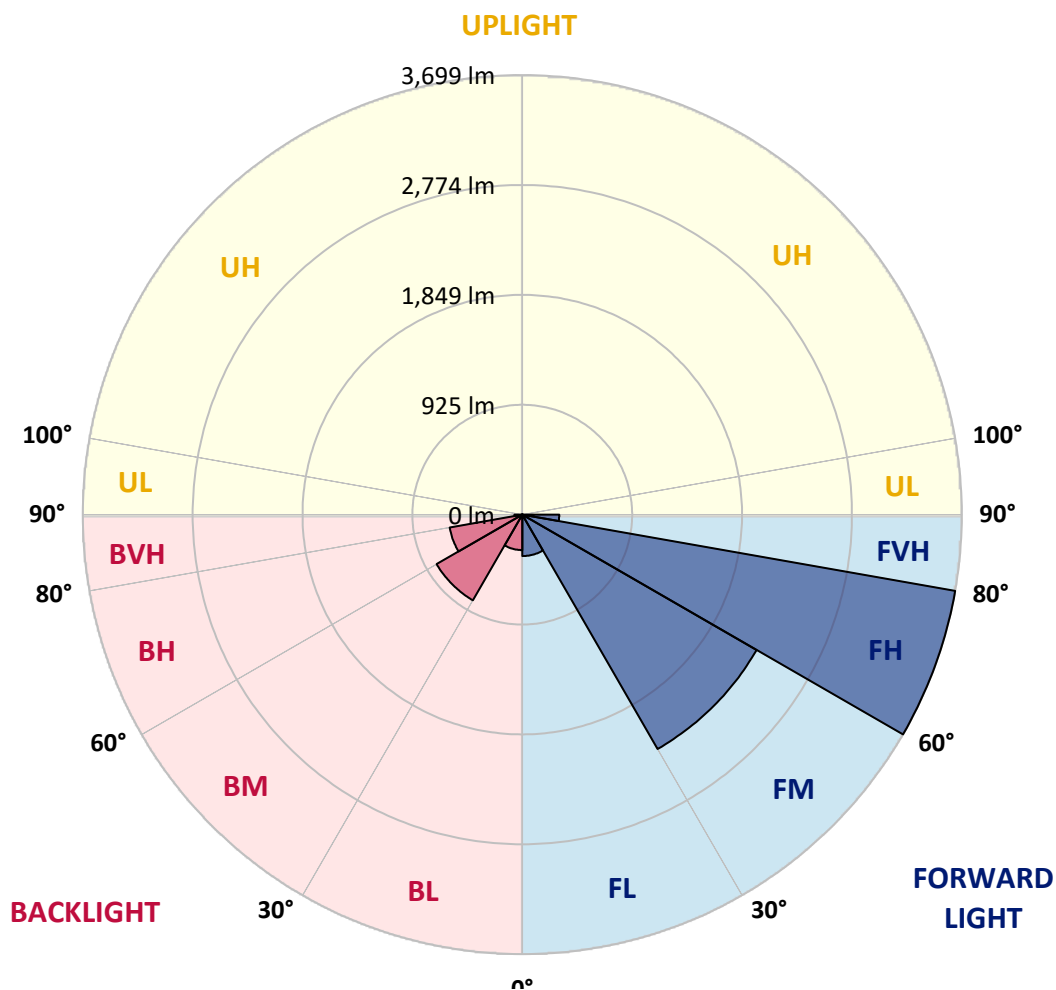
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	348.5	4.1			
FM	(30°-60°)	2277.0	26.9			
FH	(60°-80°)	3698.5	43.8			G2/5000
FVH	(80°-90°)	310.7	3.7			G3/500
BL	(0°-30°)	298.4	3.5	B1/500		
BM	(30°-60°)	831.9	9.8	B1/1000		
BH	(60°-80°)	620.3	7.3	B2/1000		G2/1000
BVH	(80°-90°)	66.6	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°	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8
2.5°	892.4	929.8	948.5	967.2	973.5	979.7	979.7	976.6	976.6	976.6	982.8
5°	908.0	904.8	904.8	904.8	901.7	898.6	895.5	889.2	886.1	879.9	876.8
7.5°	833.1	895.5	898.6	901.7	901.7	898.6	904.8	911.1	904.8	895.5	883.0
10°	989.1	986.0	979.7	973.5	964.1	954.8	883.0	808.1	814.4	820.6	761.3
12.5°	858.0	917.3	942.3	967.2	970.4	970.4	920.4	867.4	798.8	730.1	702.0
15°	1048.4	1042.1	1029.6	1017.2	932.9	845.6	795.6	745.7	745.7	745.7	661.5
17.5°	883.0	879.9	936.0	992.2	961.0	929.8	858.0	786.3	680.2	571.0	639.6
20°	1082.7	1082.7	1067.1	1051.5	908.0	761.3	770.7	776.9	780.0	780.0	748.8
22.5°	908.0	901.7	908.0	911.1	911.1	911.1	780.0	649.0	720.7	789.4	717.6
25°	1082.7	1085.8	1082.7	1079.6	948.5	814.4	836.2	858.0	758.2	655.2	723.9
27.5°	945.4	942.3	926.7	911.1	914.2	917.3	848.7	776.9	817.5	858.0	786.3
30°	1157.6	1160.7	1151.3	1138.8	1007.8	876.8	870.5	861.2	833.1	805.0	830.0
32.5°	1397.8	1397.8	1301.1	1204.4	1123.2	1039.0	970.4	901.7	929.8	957.9	926.7
35°	1525.7	1519.5	1488.3	1454.0	1304.2	1151.3	1057.7	961.0	970.4	976.6	976.6
37.5°	1753.5	1750.4	1706.7	1663.0	1460.2	1254.3	1132.6	1007.8	1026.5	1042.1	1020.3
40°	2037.4	2037.4	2003.1	1965.7	1706.7	1444.6	1273.0	1101.4	1098.3	1092.0	1067.1
42.5°	2312.0	2321.4	2299.5	2277.7	1975.0	1672.4	1447.7	1223.1	1195.0	1166.9	1142.0
45°	2493.0	2505.5	2524.2	2542.9	2243.4	1943.8	1681.7	1416.5	1363.5	1307.3	1263.7
47.5°	2677.1	2658.4	2683.3	2708.3	2452.4	2196.6	1909.5	1622.5	1535.1	1447.7	1400.9
50°	2848.7	2842.4	2851.8	2861.2	2652.1	2443.1	2146.6	1850.2	1744.2	1634.9	1581.9
52.5°	3073.3	3051.5	3039.0	3026.5	2848.7	2670.8	2390.0	2106.1	1981.3	1853.4	1791.0
55°	3288.6	3279.3	3260.5	3238.7	3085.8	2932.9	2636.5	2340.1	2209.1	2078.0	2006.2
57.5°	3510.1	3503.9	3500.8	3497.7	3363.5	3229.3	2926.7	2620.9	2471.1	2318.3	2259.0
60°	3719.2	3722.3	3747.3	3769.1	3666.2	3563.2	3257.4	2951.6	2761.3	2567.9	2508.6
62.5°	3844.0	3853.4	3915.8	3975.0	3918.9	3862.7	3547.6	3229.3	3029.6	2826.8	2786.3
65°	3684.9	3731.7	3912.6	4093.6	4093.6	4093.6	3806.6	3516.4	3341.7	3166.9	3132.6
67.5°	3329.2	3376.0	3635.0	3890.8	4025.0	4159.1	3971.9	3784.7	3666.2	3544.5	3500.8
70°	3035.9	3064.0	3307.3	3547.6	3884.6	4221.5	4099.8	3975.0	3968.8	3959.4	3840.9
72.5°	2789.4	2851.8	3051.5	3248.1	3713.0	4177.9	4174.7	4171.6	4299.5	4427.5	4199.7
75°	2230.9	2224.7	2411.9	2599.1	3123.2	3644.3	3937.6	4227.8	4596.0	4961.0	4611.6
77.5°	995.3	1064.0	1241.8	1419.7	1890.8	2358.8	2923.6	3488.3	4299.5	5107.7	4752.0
80°	283.9	299.5	349.5	396.3	617.8	836.2	1429.0	2018.7	3039.0	4056.2	3815.9
82.5°	149.8	156.0	187.2	215.3	277.7	337.0	561.6	783.2	1659.9	2533.5	2315.1
85°	71.8	65.5	84.2	99.8	134.2	168.5	259.0	349.5	642.7	936.0	808.1
87.5°	15.6	15.6	18.7	18.7	28.1	37.4	56.2	74.9	71.8	65.5	78.0
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°	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8
2.5°	986.0	989.1	992.2	989.1	986.0	982.8	982.8	979.7	979.7	976.6	970.4
5°	873.6	917.3	961.0	964.1	967.2	967.2	964.1	961.0	954.8	951.6	945.4
7.5°	870.5	854.9	839.3	842.4	845.6	848.7	848.7	839.3	836.2	811.2	786.3
10°	698.9	683.3	667.7	677.1	686.4	720.7	739.5	733.2	727.0	683.3	636.5
12.5°	673.9	667.7	661.5	614.7	567.9	608.4	636.5	633.4	624.0	583.5	542.9
15°	577.2	580.3	580.3	633.4	686.4	720.7	745.7	739.5	733.2	683.3	633.4
17.5°	705.1	670.8	633.4	624.0	614.7	630.3	608.4	574.1	595.9	589.7	583.5
20°	714.5	630.3	542.9	630.3	717.6	739.5	786.3	783.2	773.8	730.1	686.4
22.5°	645.9	695.8	742.6	695.8	649.0	617.8	602.2	595.9	592.8	605.3	614.7
25°	792.5	698.9	602.2	717.6	830.0	854.9	867.4	858.0	854.9	798.8	742.6
27.5°	711.4	761.3	811.2	848.7	886.1	917.3	1010.9	920.4	917.3	864.3	808.1
30°	851.8	904.8	957.9	1054.6	1151.3	1204.4	1223.1	1216.9	1201.2	1117.0	1032.8
32.5°	895.5	1001.6	1104.5	1148.2	1188.8	1244.9	1273.0	1269.9	1254.3	1154.4	1051.5
35°	976.6	1054.6	1132.6	1191.9	1248.1	1301.1	1326.1	1335.4	1316.7	1191.9	1064.0
37.5°	998.4	1098.3	1198.1	1260.5	1322.9	1363.5	1385.3	1413.4	1391.6	1241.8	1088.9
40°	1042.1	1160.7	1276.1	1338.5	1397.8	1435.3	1472.7	1507.0	1478.9	1298.0	1113.9
42.5°	1113.9	1235.6	1354.1	1425.9	1494.5	1547.6	1591.3	1638.1	1585.0	1351.0	1113.9
45°	1220.0	1332.3	1444.6	1541.3	1634.9	1700.5	1762.9	1828.4	1722.3	1419.7	1113.9
47.5°	1354.1	1463.3	1569.4	1722.3	1875.2	1934.5	2009.4	2071.8	1900.2	1507.0	1113.9
50°	1525.7	1647.4	1769.1	1971.9	2171.6	2227.8	2321.4	2368.2	2137.3	1641.2	1142.0
52.5°	1725.4	1859.6	1990.6	2227.8	2464.9	2558.5	2683.3	2714.5	2377.5	1775.4	1170.0
55°	1934.5	2115.4	2293.3	2555.4	2814.4	2904.8	3082.7	3107.6	2686.4	1940.7	1191.9
57.5°	2199.7	2411.9	2620.9	2876.8	3129.5	3257.4	3535.1	3544.5	3045.2	2143.5	1238.7
60°	2449.3	2714.5	2976.6	3220.0	3463.3	3663.0	3984.4	3987.5	3382.2	2296.4	1207.5
62.5°	2745.7	3060.8	3372.9	3581.9	3791.0	4037.4	4424.3	4368.2	3619.3	2315.1	1010.9
65°	3095.2	3419.7	3744.2	3922.0	4096.7	4377.5	4795.6	4580.3	3684.9	2209.1	730.1
67.5°	3454.0	3756.6	4059.3	4199.7	4340.1	4695.8	5067.1	4605.3	3588.1	2049.9	508.6
70°	3722.3	4006.2	4290.2	4411.9	4533.5	4917.3	5148.2	4443.1	3316.7	1856.5	396.3
72.5°	3968.8	4237.1	4502.3	4564.7	4624.0	4820.6	4736.4	3915.8	2795.6	1563.2	327.6
75°	4262.1	4433.7	4602.2	4489.9	4377.5	4112.3	3635.0	2854.9	2046.8	1163.8	280.8
77.5°	4396.3	4355.7	4312.0	3928.2	3544.5	2833.1	2259.0	1650.5	1039.0	639.6	240.2
80°	3575.7	3413.4	3248.1	2605.3	1962.6	1341.7	879.9	558.5	380.7	287.1	193.4
82.5°	2093.6	1716.1	1338.5	982.8	627.1	439.9	287.1	227.8	177.8	168.5	156.0
85°	677.1	599.1	521.1	411.9	302.7	187.2	109.2	99.8	93.6	103.0	109.2
87.5°	90.5	90.5	87.4	65.5	40.6	21.8	12.5	9.4	9.4	12.5	12.5
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°	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8
2.5°	970.4	967.2	964.1	961.0	957.9	951.6	926.7	901.7	892.4	879.9	870.5
5°	914.2	883.0	861.2	839.3	830.0	817.5	820.6	823.7	826.8	826.8	826.8
7.5°	792.5	798.8	801.9	801.9	811.2	817.5	823.7	826.8	814.4	801.9	786.3
10°	630.3	620.9	633.4	642.7	658.3	670.8	711.4	752.0	789.4	826.8	842.4
12.5°	574.1	605.3	580.3	555.4	605.3	652.1	708.3	764.4	798.8	830.0	801.9
15°	583.5	530.4	536.7	539.8	602.2	661.5	627.1	592.8	689.5	783.2	811.2
17.5°	574.1	564.7	599.1	630.3	571.0	511.7	595.9	677.1	720.7	764.4	752.0
20°	620.9	552.3	552.3	552.3	605.3	658.3	617.8	577.2	624.0	670.8	748.8
22.5°	642.7	667.7	617.8	564.7	599.1	633.4	633.4	630.3	683.3	733.2	720.7
25°	649.0	555.4	599.1	639.6	617.8	592.8	620.9	645.9	661.5	677.1	745.7
27.5°	742.6	677.1	627.1	574.1	614.7	655.2	645.9	636.5	649.0	661.5	677.1
30°	879.9	727.0	670.8	611.5	589.7	564.7	592.8	617.8	664.6	711.4	773.8
32.5°	920.4	786.3	695.8	602.2	599.1	592.8	602.2	608.4	661.5	711.4	798.8
35°	914.2	761.3	673.9	583.5	564.7	546.0	561.6	574.1	652.1	730.1	814.4
37.5°	908.0	723.9	633.4	542.9	530.4	514.8	530.4	546.0	605.3	664.6	742.6
40°	898.6	680.2	592.8	502.3	486.7	471.1	486.7	499.2	546.0	592.8	655.2
42.5°	876.8	636.5	549.1	458.7	446.2	430.6	443.1	455.5	496.1	536.7	574.1
45°	851.8	586.6	502.3	418.1	405.6	393.1	402.5	408.7	446.2	480.5	499.2
47.5°	823.7	533.5	455.5	377.5	365.1	352.6	361.9	368.2	396.3	424.3	430.6
50°	817.5	489.9	418.1	343.2	333.9	321.4	327.6	333.9	355.7	374.4	374.4
52.5°	805.0	436.8	377.5	315.1	308.9	299.5	302.7	305.8	321.4	337.0	333.9
55°	795.6	399.4	346.3	293.3	287.1	277.7	280.8	283.9	299.5	312.0	308.9
57.5°	805.0	368.2	321.4	271.5	265.2	259.0	265.2	271.5	287.1	302.7	302.7
60°	773.8	337.0	293.3	249.6	246.5	240.2	255.9	268.3	293.3	315.1	321.4
62.5°	661.5	308.9	271.5	234.0	237.1	237.1	265.2	290.2	324.5	355.7	361.9
65°	508.6	287.1	255.9	221.5	237.1	252.7	290.2	327.6	358.8	390.0	380.7
67.5°	390.0	271.5	246.5	218.4	252.7	283.9	318.3	352.6	368.2	380.7	365.1
70°	327.6	255.9	237.1	215.3	249.6	283.9	318.3	352.6	358.8	365.1	349.5
72.5°	287.1	243.4	224.6	205.9	234.0	262.1	302.7	340.1	346.3	349.5	333.9
75°	255.9	227.8	205.9	184.1	212.2	237.1	277.7	318.3	324.5	327.6	315.1
77.5°	224.6	209.0	184.1	159.1	187.2	215.3	252.7	290.2	299.5	308.9	293.3
80°	187.2	177.8	159.1	140.4	171.6	199.7	234.0	268.3	277.7	287.1	271.5
82.5°	149.8	143.5	131.0	118.6	149.8	181.0	215.3	246.5	255.9	262.1	243.4
85°	109.2	109.2	103.0	96.7	127.9	156.0	177.8	199.7	196.6	193.4	181.0
87.5°	15.6	15.6	21.8	28.1	37.4	43.7	56.2	65.5	68.6	68.6	53.0
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):

	165°	170°	175°	180°
0°	982.8	982.8	982.8	982.8
2.5°	861.2	861.2	858.0	864.3
5°	826.8	830.0	830.0	833.1
7.5°	770.7	755.1	736.4	739.5
10°	858.0	861.2	864.3	864.3
12.5°	770.7	758.2	742.6	745.7
15°	836.2	845.6	854.9	858.0
17.5°	736.4	733.2	730.1	727.0
20°	823.7	839.3	854.9	854.9
22.5°	708.3	708.3	708.3	711.4
25°	814.4	833.1	848.7	848.7
27.5°	689.5	733.2	776.9	811.2
30°	833.1	842.4	851.8	854.9
32.5°	883.0	929.8	973.5	982.8
35°	895.5	917.3	936.0	945.4
37.5°	820.6	839.3	858.0	870.5
40°	714.5	730.1	745.7	755.1
42.5°	608.4	611.5	614.7	630.3
45°	517.9	502.3	486.7	483.6
47.5°	433.7	411.9	390.0	386.9
50°	371.3	352.6	333.9	333.9
52.5°	327.6	315.1	302.7	302.7
55°	305.8	299.5	290.2	290.2
57.5°	302.7	299.5	296.4	296.4
60°	324.5	327.6	327.6	327.6
62.5°	365.1	368.2	368.2	368.2
65°	368.2	361.9	355.7	355.7
67.5°	349.5	340.1	330.7	324.5
70°	330.7	324.5	315.1	305.8
72.5°	315.1	308.9	299.5	290.2
75°	299.5	290.2	277.7	271.5
77.5°	277.7	271.5	262.1	255.9
80°	252.7	246.5	237.1	224.6
82.5°	224.6	227.8	227.8	196.6
85°	165.4	156.0	143.5	118.6
87.5°	34.3	31.2	25.0	21.8
90°	0.0	0.0	0.0	0.0



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