

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: P561179

Luminaire Tested: **SDL-PA1-80-830-U-T2U**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561179
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-PA1-80-830-U-T2U
Description: Springdale
(1) 80 CRI, 3000K, 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: 7501 lumens
Efficiency: N/A
Efficacy: 91.5 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

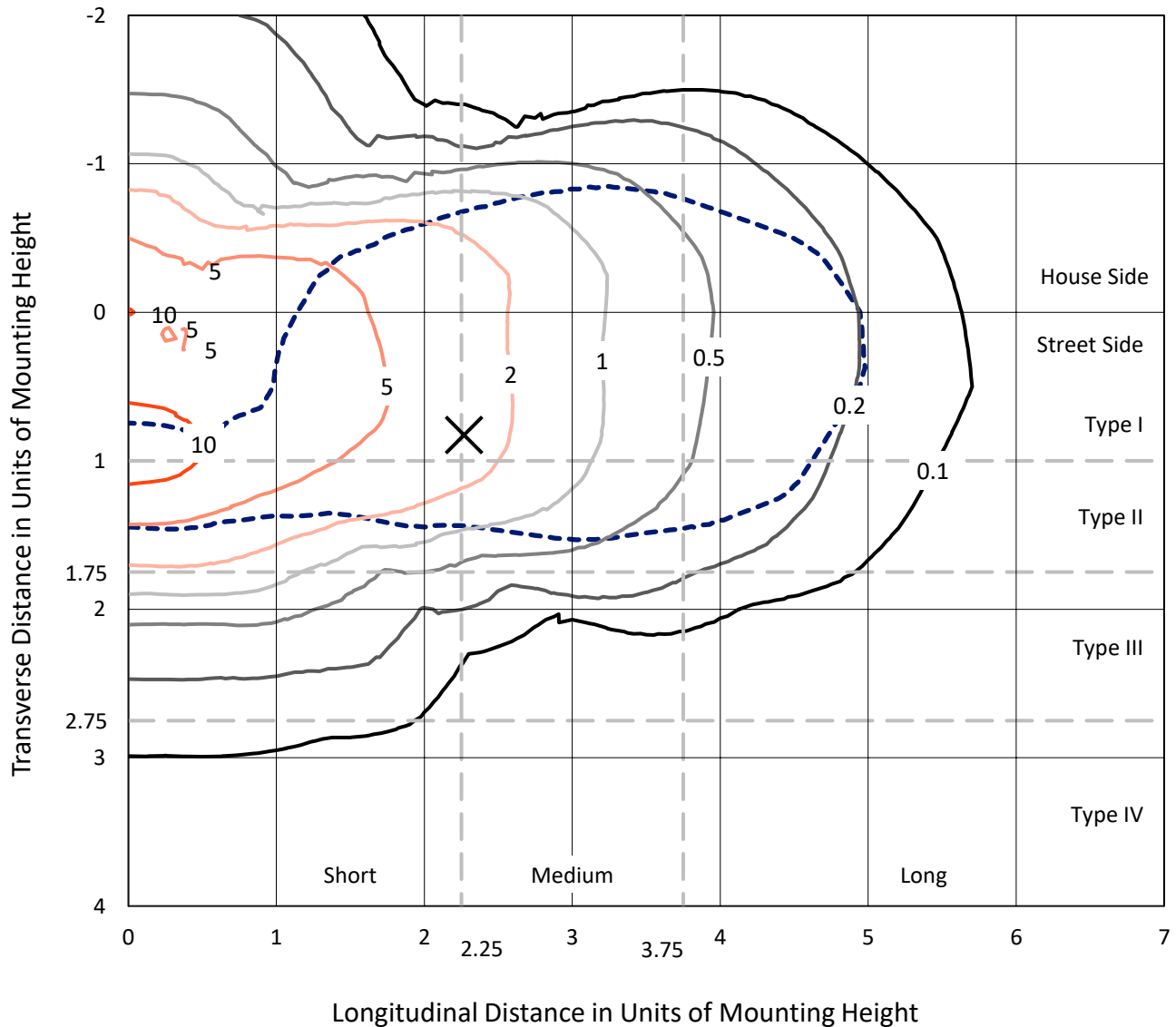


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

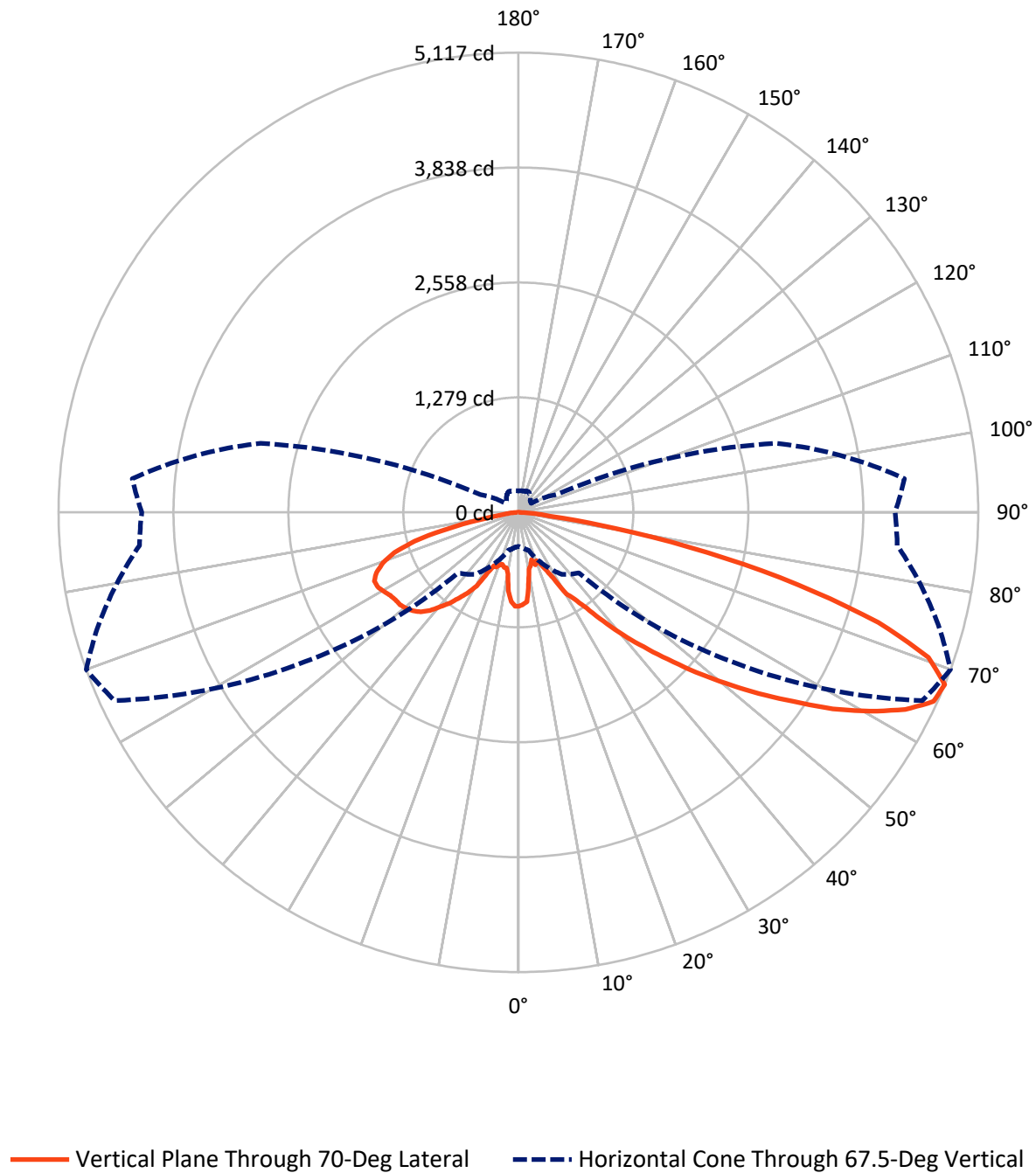


Based on 10 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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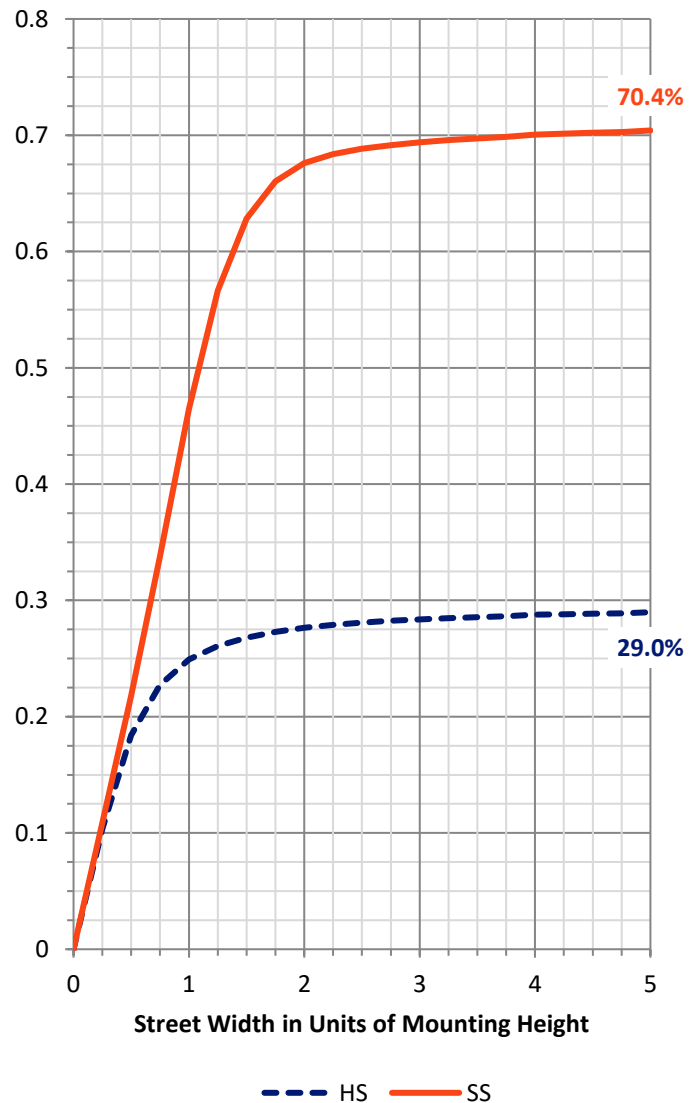
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2199.7	0.0	2199.7
	% Fixture	29.3	0.0	29.3
Street Side	Lumens	5301.3	0.0	5301.3
	% Fixture	70.7	0.0	70.7
Total	Lumens	7501.0	0.0	7501.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	1.1
10°-20°	196.4	2.6
20°-30°	348.9	4.7
30°-40°	737.6	9.8
40°-50°	1350.3	18.0
50°-60°	1842.1	24.6
60°-70°	1736.6	23.2
70°-80°	1051.0	14.0
80°-90°	154.4	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°	7501.0	100.0
0°-180°	7501.0	100.0

Coefficient of Utilization



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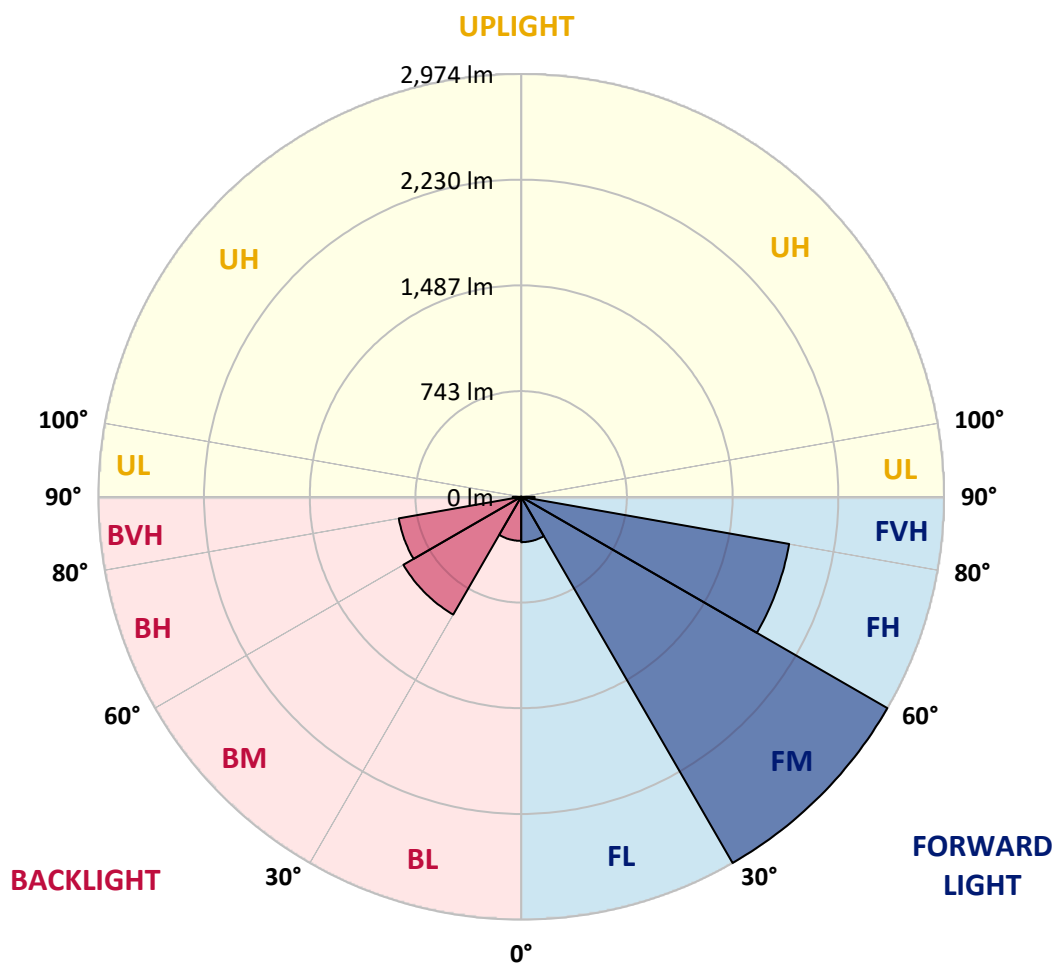
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	319.2	4.3			
FM	(30°-60°)	2973.7	39.6			
FH	(60°-80°)	1913.7	25.5			G2/5000
FVH	(80°-90°)	94.7	1.3			G1/100
BL	(0°-30°)	309.8	4.1	B1/500		
BM	(30°-60°)	956.2	12.7	B1/1000		
BH	(60°-80°)	873.9	11.7	B2/1000		G2/1000
BVH	(80°-90°)	59.7	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°	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4
2.5°	877.1	885.2	939.2	993.1	995.8	995.8	998.5	1001.2	1009.3	1014.7	1020.1
5°	817.7	823.1	823.1	823.1	825.8	828.5	831.2	831.2	836.6	839.3	844.7
7.5°	685.5	739.5	758.4	774.5	785.3	793.4	798.8	804.2	809.6	815.0	820.4
10°	779.9	779.9	782.6	782.6	782.6	779.9	726.0	669.3	696.3	723.3	682.8
12.5°	642.3	653.1	701.7	747.6	761.0	771.8	744.9	715.2	666.6	618.0	612.6
15°	763.7	763.7	763.7	761.0	712.5	661.2	609.9	555.9	588.3	620.7	572.1
17.5°	661.2	661.2	701.7	739.5	736.8	731.4	685.5	636.9	561.3	483.1	545.1
20°	833.9	831.2	817.7	801.5	701.7	601.8	623.4	645.0	650.4	653.1	634.2
22.5°	744.9	747.6	763.7	779.9	782.6	785.3	669.3	550.5	618.0	685.5	620.7
25°	1036.3	1030.9	1006.6	979.6	869.0	755.7	777.2	798.8	688.2	574.8	645.0
27.5°	985.0	968.9	958.1	947.3	966.2	985.0	882.5	777.2	801.5	825.8	736.8
30°	1408.8	1408.8	1381.8	1352.1	1184.8	1014.7	987.7	960.8	896.0	828.5	844.7
32.5°	1783.9	1783.9	1684.0	1581.5	1481.6	1381.8	1249.5	1117.3	1090.3	1060.6	1033.6
35°	2245.4	2231.9	2175.2	2115.8	1899.9	1684.0	1514.0	1344.0	1290.0	1236.0	1209.0
37.5°	2677.2	2647.5	2569.2	2488.3	2261.6	2032.2	1808.2	1584.2	1524.8	1465.4	1406.1
40°	3033.4	3017.2	2963.2	2906.6	2650.2	2393.8	2140.1	1883.7	1805.5	1727.2	1640.8
42.5°	3360.0	3346.5	3297.9	3246.6	2992.9	2736.5	2496.4	2253.5	2137.4	2021.4	1918.8
45°	3600.1	3578.6	3546.2	3511.1	3308.7	3103.6	2860.7	2615.1	2569.2	2523.3	2323.6
47.5°	3675.7	3637.9	3632.5	3627.1	3465.2	3303.3	3109.0	2914.7	2922.8	2930.9	2698.8
50°	3565.1	3508.4	3532.7	3557.0	3492.2	3424.7	3273.6	3122.5	3189.9	3254.7	3071.2
52.5°	3162.9	3149.5	3211.5	3270.9	3287.1	3303.3	3270.9	3235.8	3360.0	3484.1	3416.6
55°	2609.7	2669.1	2755.4	2841.8	2909.3	2974.0	3068.5	3162.9	3376.1	3589.3	3637.9
57.5°	2056.5	2118.5	2218.4	2318.2	2396.5	2474.8	2669.1	2863.4	3184.5	3505.7	3724.3
60°	1384.5	1449.2	1613.9	1775.8	1886.4	1997.1	2172.5	2347.9	2752.7	3157.5	3600.1
62.5°	923.0	901.4	1039.0	1174.0	1352.1	1530.2	1608.5	1684.0	2107.7	2528.7	3243.9
65°	566.7	569.4	623.4	674.7	871.7	1066.0	1128.1	1187.5	1427.6	1667.8	2642.1
67.5°	380.5	388.6	412.9	437.2	531.7	626.1	734.1	842.0	898.7	952.7	1926.9
70°	337.3	340.0	350.8	361.6	388.6	415.6	515.5	615.3	582.9	547.8	1093.0
72.5°	296.9	299.6	318.5	334.6	348.1	361.6	421.0	480.4	442.6	404.8	545.1
75°	242.9	251.0	269.9	286.1	313.1	337.3	350.8	364.3	345.4	323.9	350.8
77.5°	199.7	205.1	218.6	232.1	259.1	283.4	296.9	310.4	280.7	251.0	267.2
80°	156.5	159.2	170.0	180.8	202.4	221.3	237.5	251.0	224.0	194.3	202.4
82.5°	94.5	97.2	113.3	126.8	145.7	161.9	172.7	180.8	188.9	194.3	170.0
85°	51.3	51.3	62.1	72.9	75.6	78.3	89.1	97.2	121.4	143.0	124.1
87.5°	8.1	8.1	10.8	10.8	16.2	18.9	21.6	21.6	24.3	24.3	27.0
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°	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4
2.5°	1022.8	1025.5	1025.5	1025.5	1028.2	1030.9	1033.6	1033.6	1036.3	1039.0	1041.7
5°	850.1	920.3	987.7	998.5	1006.6	1012.0	1017.4	1020.1	1025.5	1030.9	1033.6
7.5°	825.8	825.8	825.8	806.9	877.1	885.2	893.3	898.7	904.1	898.7	890.6
10°	639.6	639.6	636.9	642.3	672.0	723.3	771.8	777.2	782.6	739.5	693.6
12.5°	604.5	612.6	620.7	607.2	553.2	599.1	645.0	653.1	655.8	618.0	577.5
15°	520.9	523.6	526.3	545.1	655.8	701.7	747.6	755.7	763.7	723.3	680.1
17.5°	604.5	585.6	564.0	615.3	572.1	601.8	628.8	564.0	623.4	612.6	601.8
20°	615.3	550.5	483.1	574.8	672.0	717.9	761.0	766.4	769.1	736.8	701.7
22.5°	555.9	618.0	680.1	618.0	580.2	574.8	569.4	566.7	569.4	588.3	604.5
25°	715.2	636.9	558.6	701.7	790.7	812.3	833.9	823.1	817.7	777.2	736.8
27.5°	647.7	709.8	769.1	828.5	855.5	885.2	912.2	920.3	877.1	833.9	790.7
30°	858.2	896.0	931.1	1052.5	1141.6	1168.6	1195.5	1168.6	1152.4	1098.4	1041.7
32.5°	1003.9	1079.5	1155.1	1152.4	1236.0	1257.6	1276.5	1241.4	1211.7	1152.4	1090.3
35°	1182.1	1230.6	1279.2	1306.2	1389.9	1398.0	1406.1	1360.2	1317.0	1246.8	1176.7
37.5°	1346.7	1408.8	1468.1	1535.6	1608.5	1592.3	1573.4	1516.7	1446.5	1392.6	1338.6
40°	1551.8	1627.4	1702.9	1789.3	1832.5	1808.2	1781.2	1694.8	1627.4	1570.7	1514.0
42.5°	1813.6	1894.5	1972.8	2048.4	2064.5	2037.6	2007.9	1913.4	1810.9	1754.2	1694.8
45°	2121.2	2186.0	2250.8	2329.0	2361.4	2312.8	2261.6	2142.8	2021.4	1940.4	1859.4
47.5°	2464.0	2493.7	2523.3	2658.3	2701.5	2620.5	2536.8	2407.3	2237.3	2132.0	2024.1
50°	2887.7	2879.6	2868.8	2987.5	3087.4	2952.4	2814.8	2663.7	2496.4	2347.9	2196.8
52.5°	3349.2	3270.9	3189.9	3349.2	3397.7	3235.8	3073.9	2912.0	2744.6	2553.0	2358.7
55°	3686.5	3643.3	3600.1	3713.5	3708.1	3519.2	3327.6	3136.0	2998.3	2741.9	2485.6
57.5°	3940.2	3978.0	4013.1	4126.4	3996.9	3781.0	3565.1	3373.4	3254.7	2933.5	2612.4
60°	4040.0	4234.4	4426.0	4493.4	4296.4	4053.5	3807.9	3619.0	3519.2	3130.6	2741.9
62.5°	3959.1	4388.2	4817.3	4830.8	4571.7	4299.1	4026.5	3872.7	3821.4	3343.8	2863.4
65°	3616.3	4323.4	5027.8	5076.4	4784.9	4498.8	4210.1	4096.7	4129.1	3543.5	2955.1
67.5°	2898.5	3929.4	4957.6	5116.8	4836.2	4533.9	4231.7	4191.2	4312.6	3640.6	2968.6
70°	1638.1	3019.9	4399.0	4841.6	4693.1	4393.6	4091.3	4110.2	4291.0	3586.6	2882.3
72.5°	682.8	2088.8	3494.9	4188.5	4318.0	4064.3	3807.9	3878.1	4002.3	3333.0	2661.0
75°	377.8	1333.2	2288.5	3211.5	3610.9	3543.5	3473.3	3551.6	3492.2	2844.5	2196.8
77.5°	280.7	720.6	1160.5	2150.9	2717.6	2871.5	3022.6	3060.4	2728.4	2078.0	1427.6
80°	210.5	342.7	472.3	1098.4	1457.3	1732.6	2007.9	1837.9	1605.8	1122.7	639.6
82.5°	145.7	197.0	248.3	353.5	566.7	653.1	736.8	701.7	526.3	369.7	210.5
85°	102.6	129.5	156.5	194.3	242.9	194.3	145.7	118.7	137.6	126.8	116.0
87.5°	27.0	27.0	24.3	27.0	18.9	16.2	13.5	10.8	10.8	10.8	10.8
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°	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4
2.5°	1044.4	1047.1	1047.1	1047.1	1047.1	1044.4	1030.9	1017.4	985.0	952.7	941.9
5°	998.5	963.5	936.5	909.5	909.5	909.5	914.9	920.3	923.0	925.7	928.4
7.5°	890.6	887.9	898.7	909.5	917.6	925.7	931.1	936.5	925.7	914.9	890.6
10°	696.3	696.3	709.8	720.6	739.5	758.4	812.3	866.3	912.2	958.1	966.2
12.5°	631.5	682.8	653.1	620.7	688.2	755.7	815.0	871.7	917.6	960.8	925.7
15°	634.2	585.6	596.4	607.2	680.1	753.0	699.0	642.3	750.3	855.5	879.8
17.5°	604.5	607.2	655.8	704.4	631.5	555.9	650.4	744.9	785.3	823.1	788.0
20°	620.7	537.1	593.7	650.4	701.7	750.3	701.7	650.4	663.9	677.4	769.1
22.5°	655.8	707.1	658.5	609.9	669.3	726.0	701.7	677.4	720.6	761.0	723.3
25°	653.1	566.7	647.7	728.7	674.7	618.0	647.7	677.4	655.8	631.5	701.7
27.5°	753.0	715.2	693.6	669.3	699.0	728.7	666.6	604.5	604.5	604.5	596.4
30°	941.9	842.0	798.8	753.0	680.1	607.2	585.6	564.0	566.7	569.4	609.9
32.5°	1052.5	1014.7	885.2	755.7	688.2	620.7	564.0	507.4	512.8	518.2	569.4
35°	1149.7	1120.0	947.3	771.8	661.2	547.8	499.3	448.0	472.3	493.9	537.1
37.5°	1260.3	1179.4	944.6	707.1	588.3	469.6	439.9	410.2	426.4	439.9	466.9
40°	1360.2	1203.6	920.3	634.2	515.5	394.0	380.5	364.3	377.8	391.3	407.5
42.5°	1468.1	1238.7	885.2	529.0	434.5	340.0	334.6	329.2	342.7	356.2	367.0
45°	1551.8	1244.1	839.3	431.8	369.7	307.7	307.7	305.0	318.5	329.2	334.6
47.5°	1605.8	1184.8	766.4	345.4	318.5	291.5	294.2	294.2	305.0	313.1	315.8
50°	1643.5	1087.6	696.3	305.0	291.5	278.0	278.0	278.0	288.8	296.9	302.3
52.5°	1670.5	979.6	631.5	280.7	275.3	267.2	267.2	264.5	278.0	291.5	294.2
55°	1678.6	869.0	566.7	261.8	256.4	251.0	256.4	259.1	275.3	288.8	291.5
57.5°	1697.5	782.6	512.8	242.9	240.2	237.5	245.6	253.7	269.9	286.1	286.1
60°	1735.3	726.0	475.0	224.0	224.0	224.0	237.5	248.3	264.5	280.7	278.0
62.5°	1770.4	674.7	439.9	205.1	207.8	210.5	226.7	242.9	259.1	275.3	272.6
65°	1775.8	593.7	391.3	188.9	194.3	197.0	215.9	234.8	251.0	267.2	261.8
67.5°	1716.4	464.2	318.5	172.7	180.8	186.2	207.8	226.7	242.9	256.4	251.0
70°	1608.5	331.9	245.6	159.2	167.3	172.7	194.3	213.2	226.7	240.2	234.8
72.5°	1449.2	237.5	191.6	145.7	151.1	156.5	175.4	194.3	210.5	224.0	218.6
75°	1195.5	191.6	161.9	132.2	137.6	140.3	159.2	175.4	191.6	205.1	197.0
77.5°	793.4	156.5	137.6	118.7	121.4	124.1	140.3	153.8	167.3	178.1	172.7
80°	383.2	126.8	116.0	102.6	105.3	105.3	118.7	132.2	143.0	151.1	148.4
82.5°	156.5	99.9	91.8	83.7	83.7	83.7	97.2	108.0	118.7	126.8	121.4
85°	97.2	78.3	72.9	64.8	62.1	59.4	64.8	70.2	75.6	78.3	75.6
87.5°	13.5	13.5	16.2	18.9	16.2	10.8	16.2	21.6	21.6	18.9	16.2
90°	0.0	0.0	8.1	8.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1044.4	1044.4	1044.4	1044.4
2.5°	931.1	931.1	931.1	936.5
5°	928.4	928.4	928.4	933.8
7.5°	866.3	839.3	812.3	815.0
10°	971.6	974.3	974.3	977.0
12.5°	887.9	844.7	801.5	806.9
15°	904.1	904.1	901.4	904.1
17.5°	753.0	739.5	726.0	726.0
20°	860.9	860.9	860.9	860.9
22.5°	685.5	682.8	680.1	682.8
25°	771.8	774.5	774.5	771.8
27.5°	588.3	623.4	655.8	658.5
30°	647.7	647.7	647.7	647.7
32.5°	620.7	647.7	674.7	677.4
35°	577.5	574.8	572.1	580.2
37.5°	491.2	485.8	480.4	480.4
40°	423.7	412.9	402.1	402.1
42.5°	375.1	367.0	356.2	353.5
45°	340.0	331.9	321.2	321.2
47.5°	315.8	310.4	305.0	302.3
50°	305.0	299.6	294.2	294.2
52.5°	296.9	294.2	288.8	288.8
55°	291.5	288.8	283.4	283.4
57.5°	286.1	283.4	278.0	278.0
60°	275.3	272.6	269.9	269.9
62.5°	267.2	264.5	261.8	261.8
65°	256.4	256.4	253.7	251.0
67.5°	242.9	242.9	242.9	237.5
70°	226.7	226.7	226.7	221.3
72.5°	210.5	210.5	207.8	199.7
75°	188.9	186.2	183.5	178.1
77.5°	167.3	161.9	156.5	153.8
80°	143.0	137.6	132.2	126.8
82.5°	113.3	110.6	105.3	91.8
85°	70.2	62.1	51.3	45.9
87.5°	13.5	10.8	8.1	2.7
90°	0.0	0.0	0.0	0.0

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