

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: P561333

Luminaire Tested: **SDL-PA1-90-827-U-T2U**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561333
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-PA1-90-827-U-T2U
Description: Springdale
(1) 80 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7604.9 lumens
Efficiency: N/A
Efficacy: 82.3 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): 92.4
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

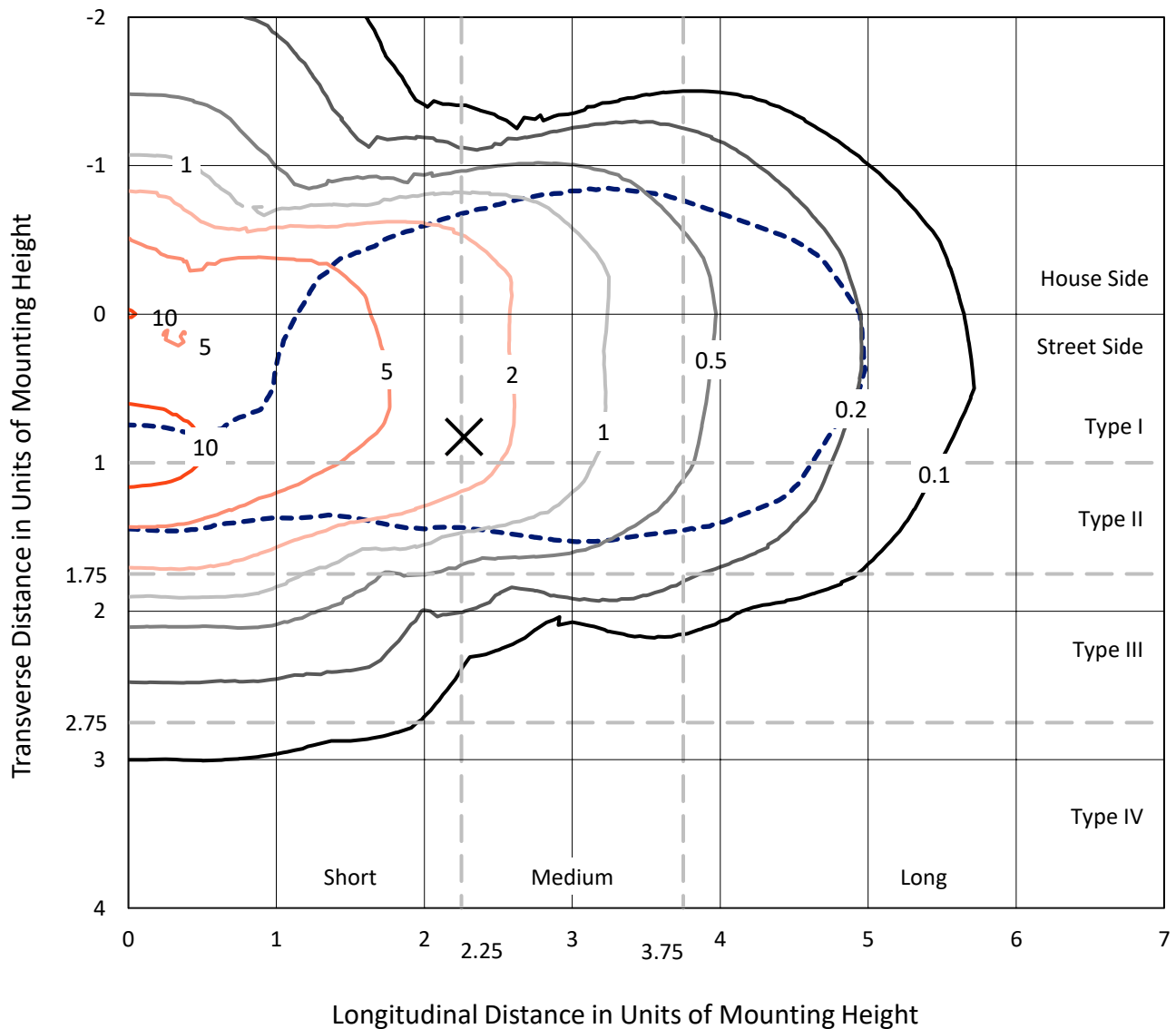


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

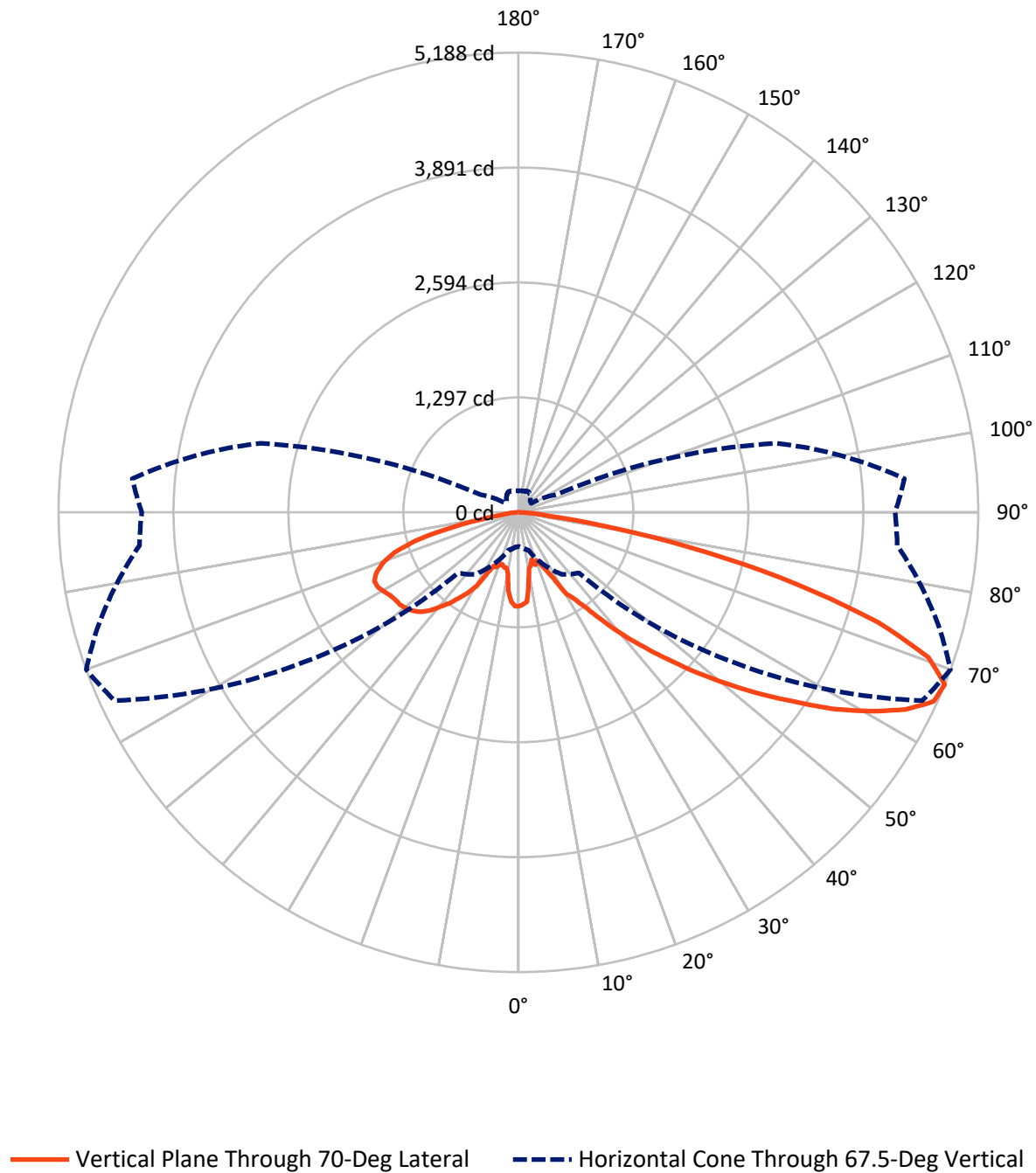


Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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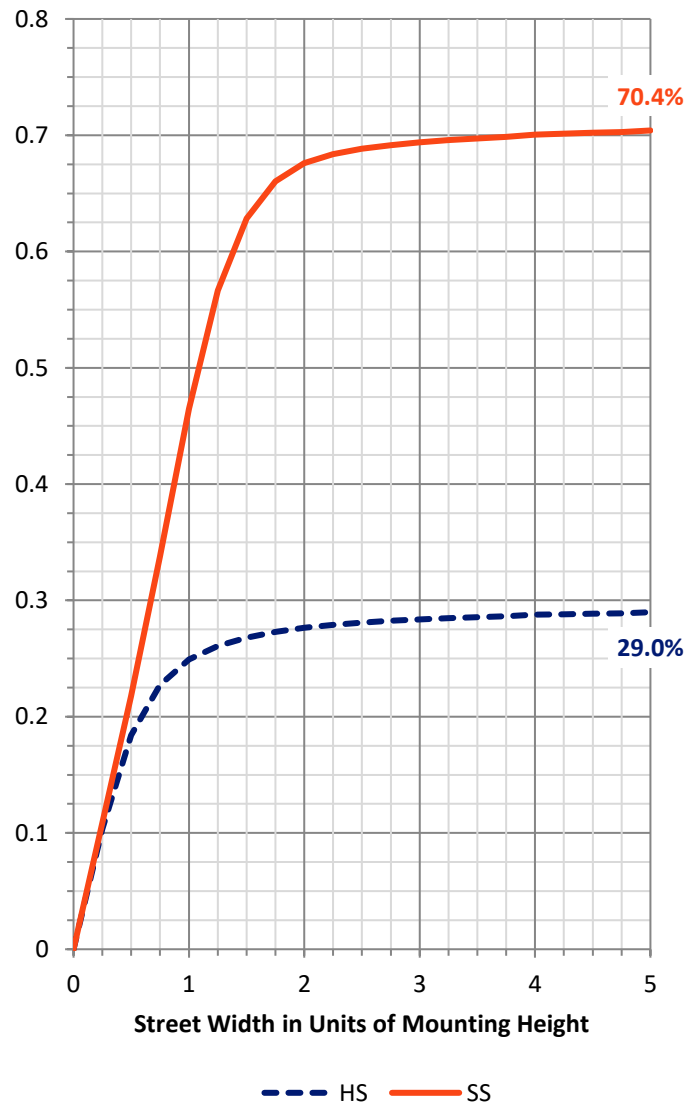
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2230.2	0.0	2230.2
	% Fixture	29.3	0.0	29.3
Street Side	Lumens	5374.7	0.0	5374.7
	% Fixture	70.7	0.0	70.7
Total	Lumens	7604.9	0.0	7604.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	1.1
10°-20°	199.1	2.6
20°-30°	353.8	4.7
30°-40°	747.8	9.8
40°-50°	1369.0	18.0
50°-60°	1867.6	24.6
60°-70°	1760.7	23.2
70°-80°	1065.6	14.0
80°-90°	156.5	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°	7604.9	100.0
0°-180°	7604.9	100.0

Coefficient of Utilization



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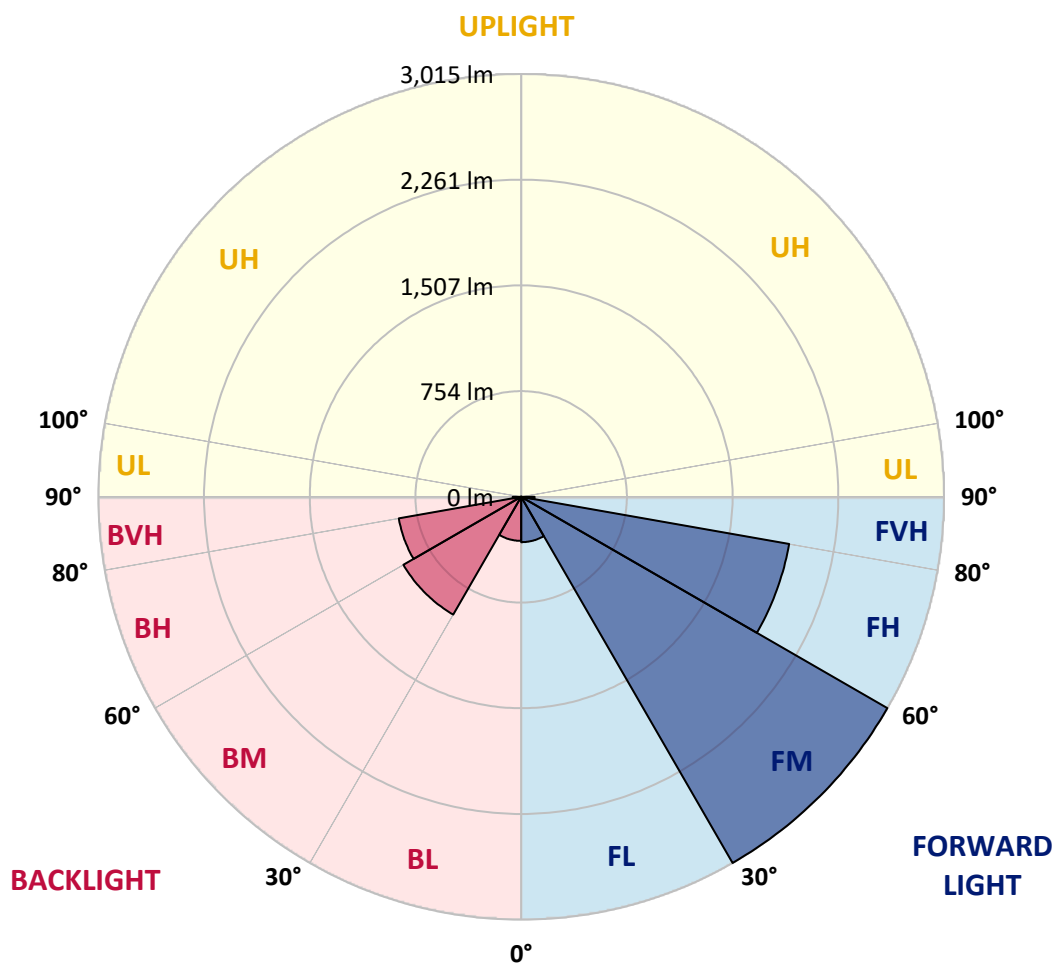
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	323.6	4.3			
FM	(30°-60°)	3014.9	39.6			
FH	(60°-80°)	1940.2	25.5			G2/5000
FVH	(80°-90°)	96.0	1.3			G1/100
BL	(0°-30°)	314.1	4.1	B1/500		
BM	(30°-60°)	969.5	12.7	B1/1000		
BH	(60°-80°)	886.0	11.7	B2/1000		G2/1000
BVH	(80°-90°)	60.5	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°	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9
2.5°	889.2	897.4	952.2	1006.9	1009.6	1009.6	1012.4	1015.1	1023.3	1028.8	1034.3
5°	829.0	834.5	834.5	834.5	837.3	840.0	842.7	842.7	848.2	850.9	856.4
7.5°	695.0	749.7	768.9	785.3	796.2	804.4	809.9	815.4	820.8	826.3	831.8
10°	790.7	790.7	793.5	793.5	793.5	790.7	736.0	678.6	705.9	733.3	692.2
12.5°	651.2	662.1	711.4	757.9	771.6	782.5	755.2	725.1	675.8	626.6	621.1
15°	774.3	774.3	774.3	771.6	722.3	670.4	618.4	563.6	596.5	629.3	580.1
17.5°	670.4	670.4	711.4	749.7	747.0	741.5	695.0	645.7	569.1	489.8	552.7
20°	845.5	842.7	829.0	812.6	711.4	610.2	632.0	653.9	659.4	662.1	643.0
22.5°	755.2	757.9	774.3	790.7	793.5	796.2	678.6	558.2	626.6	695.0	629.3
25°	1050.7	1045.2	1020.6	993.2	881.0	766.1	788.0	809.9	697.7	582.8	653.9
27.5°	998.7	982.3	971.3	960.4	979.5	998.7	894.7	788.0	812.6	837.3	747.0
30°	1428.3	1428.3	1400.9	1370.8	1201.2	1028.8	1001.4	974.1	908.4	840.0	856.4
32.5°	1808.6	1808.6	1707.3	1603.4	1502.1	1400.9	1266.8	1132.8	1105.4	1075.3	1047.9
35°	2276.5	2262.8	2205.3	2145.1	1926.2	1707.3	1535.0	1362.6	1307.9	1253.1	1225.8
37.5°	2714.2	2684.1	2604.8	2522.7	2292.9	2060.3	1833.2	1606.1	1545.9	1485.7	1425.5
40°	3075.4	3059.0	3004.3	2946.8	2686.9	2426.9	2169.7	1909.8	1830.5	1751.1	1663.6
42.5°	3406.5	3392.8	3343.5	3291.6	3034.4	2774.4	2530.9	2284.7	2167.0	2049.4	1945.4
45°	3650.0	3628.1	3595.3	3559.7	3354.5	3146.5	2900.3	2651.3	2604.8	2558.3	2355.8
47.5°	3726.6	3688.3	3682.8	3677.4	3513.2	3349.0	3152.0	2955.0	2963.2	2971.4	2736.1
50°	3614.4	3557.0	3581.6	3606.2	3540.5	3472.1	3318.9	3165.7	3234.1	3299.8	3113.7
52.5°	3206.7	3193.1	3256.0	3316.2	3332.6	3349.0	3316.2	3280.6	3406.5	3532.3	3463.9
55°	2645.8	2706.0	2793.6	2881.1	2949.5	3015.2	3111.0	3206.7	3422.9	3639.0	3688.3
57.5°	2084.9	2147.9	2249.1	2350.3	2429.7	2509.0	2706.0	2903.0	3228.6	3554.2	3775.9
60°	1403.6	1469.3	1636.2	1800.4	1912.6	2024.7	2202.6	2380.4	2790.8	3201.3	3650.0
62.5°	935.8	913.9	1053.4	1190.2	1370.8	1551.4	1630.7	1707.3	2136.9	2563.8	3288.8
65°	574.6	577.3	632.0	684.0	883.8	1080.8	1143.7	1203.9	1447.4	1690.9	2678.7
67.5°	385.8	394.0	418.6	443.3	539.0	634.8	744.2	853.7	911.1	965.9	1953.6
70°	342.0	344.8	355.7	366.6	394.0	421.4	522.6	623.8	591.0	555.4	1108.1
72.5°	301.0	303.7	322.9	339.3	353.0	366.6	426.8	487.0	448.7	410.4	552.7
75°	246.3	254.5	273.6	290.0	317.4	342.0	355.7	369.4	350.2	328.3	355.7
77.5°	202.5	207.9	221.6	235.3	262.7	287.3	301.0	314.7	284.6	254.5	270.9
80°	158.7	161.4	172.4	183.3	205.2	224.4	240.8	254.5	227.1	197.0	205.2
82.5°	95.8	98.5	114.9	128.6	147.8	164.2	175.1	183.3	191.5	197.0	172.4
85°	52.0	52.0	62.9	73.9	76.6	79.3	90.3	98.5	123.1	145.0	125.9
87.5°	8.2	8.2	10.9	10.9	16.4	19.2	21.9	21.9	24.6	24.6	27.4
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°	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9
2.5°	1037.0	1039.7	1039.7	1039.7	1042.5	1045.2	1047.9	1047.9	1050.7	1053.4	1056.1
5°	861.9	933.0	1001.4	1012.4	1020.6	1026.0	1031.5	1034.3	1039.7	1045.2	1047.9
7.5°	837.3	837.3	837.3	818.1	889.2	897.4	905.7	911.1	916.6	911.1	902.9
10°	648.5	648.5	645.7	651.2	681.3	733.3	782.5	788.0	793.5	749.7	703.2
12.5°	612.9	621.1	629.3	615.6	560.9	607.4	653.9	662.1	664.9	626.6	585.5
15°	528.1	530.8	533.5	552.7	664.9	711.4	757.9	766.1	774.3	733.3	689.5
17.5°	612.9	593.7	571.9	623.8	580.1	610.2	637.5	571.9	632.0	621.1	610.2
20°	623.8	558.2	489.8	582.8	681.3	727.8	771.6	777.1	779.8	747.0	711.4
22.5°	563.6	626.6	689.5	626.6	588.3	582.8	577.3	574.6	577.3	596.5	612.9
25°	725.1	645.7	566.4	711.4	801.7	823.6	845.5	834.5	829.0	788.0	747.0
27.5°	656.7	719.6	779.8	840.0	867.4	897.4	924.8	933.0	889.2	845.5	801.7
30°	870.1	908.4	944.0	1067.1	1157.4	1184.7	1212.1	1184.7	1168.3	1113.6	1056.1
32.5°	1017.8	1094.5	1171.1	1168.3	1253.1	1275.0	1294.2	1258.6	1228.5	1168.3	1105.4
35°	1198.4	1247.7	1296.9	1324.3	1409.1	1417.3	1425.5	1379.0	1335.2	1264.1	1193.0
37.5°	1365.3	1428.3	1488.5	1556.9	1630.7	1614.3	1595.2	1537.7	1466.6	1411.8	1357.1
40°	1573.3	1649.9	1726.5	1814.1	1857.8	1833.2	1805.8	1718.3	1649.9	1592.4	1535.0
42.5°	1838.7	1920.8	2000.1	2076.7	2093.1	2065.8	2035.7	1939.9	1835.9	1778.5	1718.3
45°	2150.6	2216.3	2281.9	2361.3	2394.1	2344.9	2292.9	2172.5	2049.4	1967.3	1885.2
47.5°	2498.1	2528.2	2558.3	2695.1	2738.9	2656.8	2572.0	2440.6	2268.2	2161.5	2052.1
50°	2927.7	2919.4	2908.5	3028.9	3130.1	2993.3	2853.8	2700.6	2530.9	2380.4	2227.2
52.5°	3395.5	3316.2	3234.1	3395.5	3444.8	3280.6	3116.4	2952.3	2782.6	2588.4	2391.4
55°	3737.5	3693.8	3650.0	3764.9	3759.4	3567.9	3373.6	3179.4	3039.8	2779.9	2520.0
57.5°	3994.7	4033.1	4068.6	4183.5	4052.2	3833.3	3614.4	3420.2	3299.8	2974.2	2648.6
60°	4096.0	4293.0	4487.2	4555.7	4355.9	4109.7	3860.7	3669.1	3567.9	3173.9	2779.9
62.5°	4013.9	4448.9	4884.0	4897.7	4635.0	4358.7	4082.3	3926.3	3874.4	3390.1	2903.0
65°	3666.4	4383.3	5097.4	5146.7	4851.2	4561.1	4268.4	4153.4	4186.3	3592.5	2996.1
67.5°	2938.6	3983.8	5026.3	5187.7	4903.1	4596.7	4290.2	4249.2	4372.3	3691.0	3009.7
70°	1660.8	3061.7	4459.9	4908.6	4758.1	4454.4	4148.0	4167.1	4350.4	3636.3	2922.2
72.5°	692.2	2117.8	3543.3	4246.5	4377.8	4120.6	3860.7	3931.8	4057.7	3379.1	2697.8
75°	383.1	1351.6	2320.2	3256.0	3660.9	3592.5	3521.4	3600.7	3540.5	2883.9	2227.2
77.5°	284.6	730.5	1176.5	2180.7	2755.3	2911.2	3064.5	3102.8	2766.2	2106.8	1447.4
80°	213.4	347.5	478.8	1113.6	1477.5	1756.6	2035.7	1863.3	1628.0	1138.2	648.5
82.5°	147.8	199.7	251.7	358.4	574.6	662.1	747.0	711.4	533.5	374.8	213.4
85°	104.0	131.3	158.7	197.0	246.3	197.0	147.8	120.4	139.5	128.6	117.7
87.5°	27.4	27.4	24.6	27.4	19.2	16.4	13.7	10.9	10.9	10.9	10.9
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°	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9
2.5°	1058.9	1061.6	1061.6	1061.6	1061.6	1058.9	1045.2	1031.5	998.7	965.9	954.9
5°	1012.4	976.8	949.4	922.1	922.1	922.1	927.5	933.0	935.8	938.5	941.2
7.5°	902.9	900.2	911.1	922.1	930.3	938.5	944.0	949.4	938.5	927.5	902.9
10°	705.9	705.9	719.6	730.5	749.7	768.9	823.6	878.3	924.8	971.3	979.5
12.5°	640.3	692.2	662.1	629.3	697.7	766.1	826.3	883.8	930.3	974.1	938.5
15°	643.0	593.7	604.7	615.6	689.5	763.4	708.7	651.2	760.6	867.4	892.0
17.5°	612.9	615.6	664.9	714.1	640.3	563.6	659.4	755.2	796.2	834.5	798.9
20°	629.3	544.5	601.9	659.4	711.4	760.6	711.4	659.4	673.1	686.8	779.8
22.5°	664.9	716.9	667.6	618.4	678.6	736.0	711.4	686.8	730.5	771.6	733.3
25°	662.1	574.6	656.7	738.8	684.0	626.6	656.7	686.8	664.9	640.3	711.4
27.5°	763.4	725.1	703.2	678.6	708.7	738.8	675.8	612.9	612.9	612.9	604.7
30°	954.9	853.7	809.9	763.4	689.5	615.6	593.7	571.9	574.6	577.3	618.4
32.5°	1067.1	1028.8	897.4	766.1	697.7	629.3	571.9	514.4	519.9	525.3	577.3
35°	1165.6	1135.5	960.4	782.5	670.4	555.4	506.2	454.2	478.8	500.7	544.5
37.5°	1277.8	1195.7	957.6	716.9	596.5	476.1	446.0	415.9	432.3	446.0	473.3
40°	1379.0	1220.3	933.0	643.0	522.6	399.5	385.8	369.4	383.1	396.7	413.2
42.5°	1488.5	1255.9	897.4	536.3	440.5	344.8	339.3	333.8	347.5	361.2	372.1
45°	1573.3	1261.4	850.9	437.8	374.8	311.9	311.9	309.2	322.9	333.8	339.3
47.5°	1628.0	1201.2	777.1	350.2	322.9	295.5	298.2	298.2	309.2	317.4	320.1
50°	1666.3	1102.7	705.9	309.2	295.5	281.8	281.8	281.8	292.8	301.0	306.4
52.5°	1693.7	993.2	640.3	284.6	279.1	270.9	270.9	268.1	281.8	295.5	298.2
55°	1701.9	881.0	574.6	265.4	259.9	254.5	259.9	262.7	279.1	292.8	295.5
57.5°	1721.0	793.5	519.9	246.3	243.5	240.8	249.0	257.2	273.6	290.0	290.0
60°	1759.3	736.0	481.6	227.1	227.1	227.1	240.8	251.7	268.1	284.6	281.8
62.5°	1794.9	684.0	446.0	207.9	210.7	213.4	229.8	246.3	262.7	279.1	276.3
65°	1800.4	601.9	396.7	191.5	197.0	199.7	218.9	238.0	254.5	270.9	265.4
67.5°	1740.2	470.6	322.9	175.1	183.3	188.8	210.7	229.8	246.3	259.9	254.5
70°	1630.7	336.5	249.0	161.4	169.6	175.1	197.0	216.2	229.8	243.5	238.0
72.5°	1469.3	240.8	194.3	147.8	153.2	158.7	177.8	197.0	213.4	227.1	221.6
75°	1212.1	194.3	164.2	134.1	139.5	142.3	161.4	177.8	194.3	207.9	199.7
77.5°	804.4	158.7	139.5	120.4	123.1	125.9	142.3	156.0	169.6	180.6	175.1
80°	388.5	128.6	117.7	104.0	106.7	106.7	120.4	134.1	145.0	153.2	150.5
82.5°	158.7	101.2	93.0	84.8	84.8	84.8	98.5	109.4	120.4	128.6	123.1
85°	98.5	79.3	73.9	65.7	62.9	60.2	65.7	71.1	76.6	79.3	76.6
87.5°	13.7	13.7	16.4	19.2	16.4	10.9	16.4	21.9	21.9	19.2	16.4
90°	0.0	0.0	8.2	8.2	5.5	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1058.9	1058.9	1058.9	1058.9
2.5°	944.0	944.0	944.0	949.4
5°	941.2	941.2	941.2	946.7
7.5°	878.3	850.9	823.6	826.3
10°	985.0	987.7	987.7	990.5
12.5°	900.2	856.4	812.6	818.1
15°	916.6	916.6	913.9	916.6
17.5°	763.4	749.7	736.0	736.0
20°	872.8	872.8	872.8	872.8
22.5°	695.0	692.2	689.5	692.2
25°	782.5	785.3	785.3	782.5
27.5°	596.5	632.0	664.9	667.6
30°	656.7	656.7	656.7	656.7
32.5°	629.3	656.7	684.0	686.8
35°	585.5	582.8	580.1	588.3
37.5°	498.0	492.5	487.0	487.0
40°	429.6	418.6	407.7	407.7
42.5°	380.3	372.1	361.2	358.4
45°	344.8	336.5	325.6	325.6
47.5°	320.1	314.7	309.2	306.4
50°	309.2	303.7	298.2	298.2
52.5°	301.0	298.2	292.8	292.8
55°	295.5	292.8	287.3	287.3
57.5°	290.0	287.3	281.8	281.8
60°	279.1	276.3	273.6	273.6
62.5°	270.9	268.1	265.4	265.4
65°	259.9	259.9	257.2	254.5
67.5°	246.3	246.3	246.3	240.8
70°	229.8	229.8	229.8	224.4
72.5°	213.4	213.4	210.7	202.5
75°	191.5	188.8	186.1	180.6
77.5°	169.6	164.2	158.7	156.0
80°	145.0	139.5	134.1	128.6
82.5°	114.9	112.2	106.7	93.0
85°	71.1	62.9	52.0	46.5
87.5°	13.7	10.9	8.2	2.7
90°	0.0	0.0	0.0	0.0

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