

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: P559925

Luminaire Tested: **SDL-PA1-100-827-U-T2U**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P559925
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-PA1-100-827-U-T2U
Description: Springdale
(1) 80 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7674.7 lumens
Efficiency: N/A
Efficacy: 81.8 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

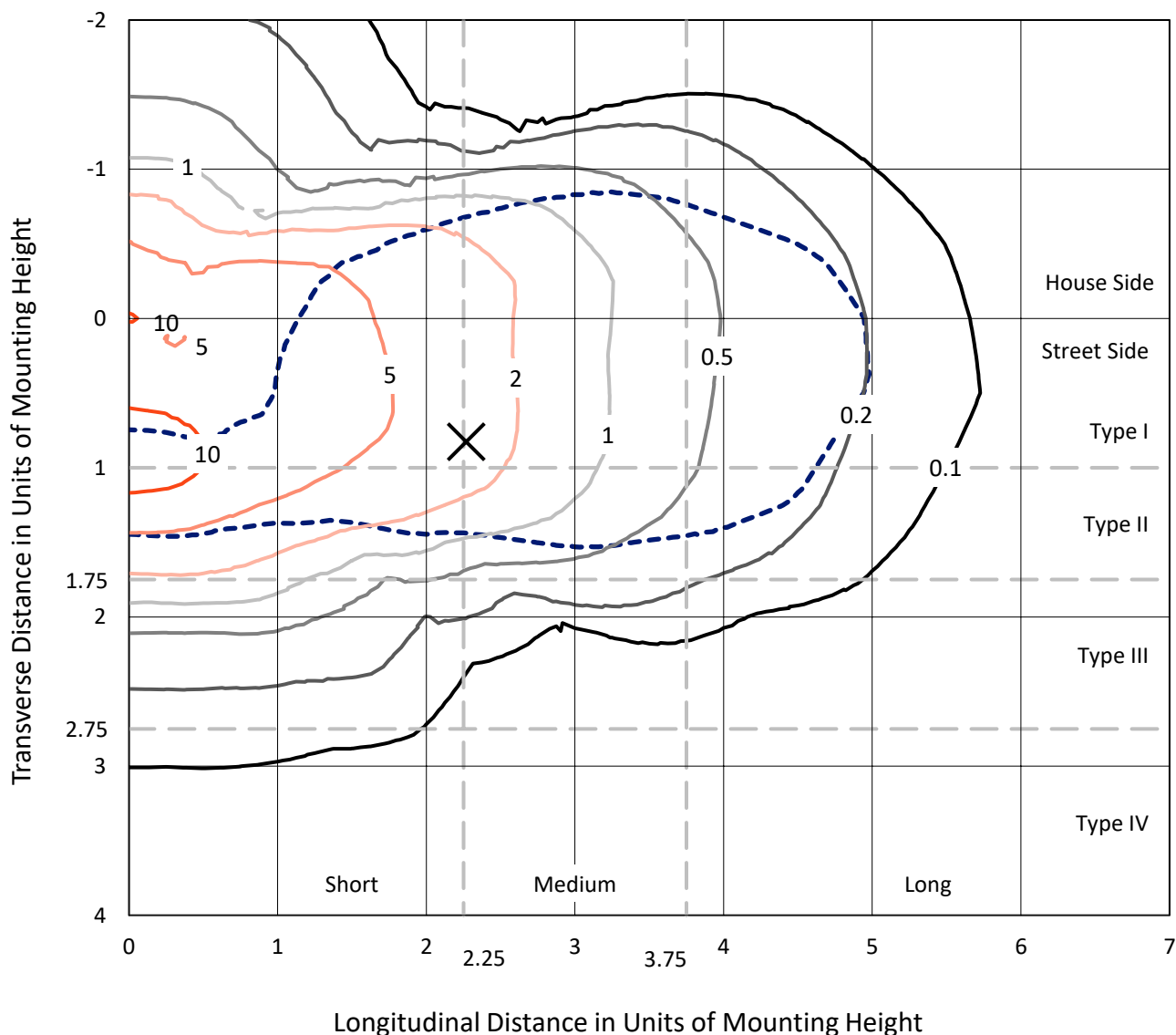
Input Watts (W): 93.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

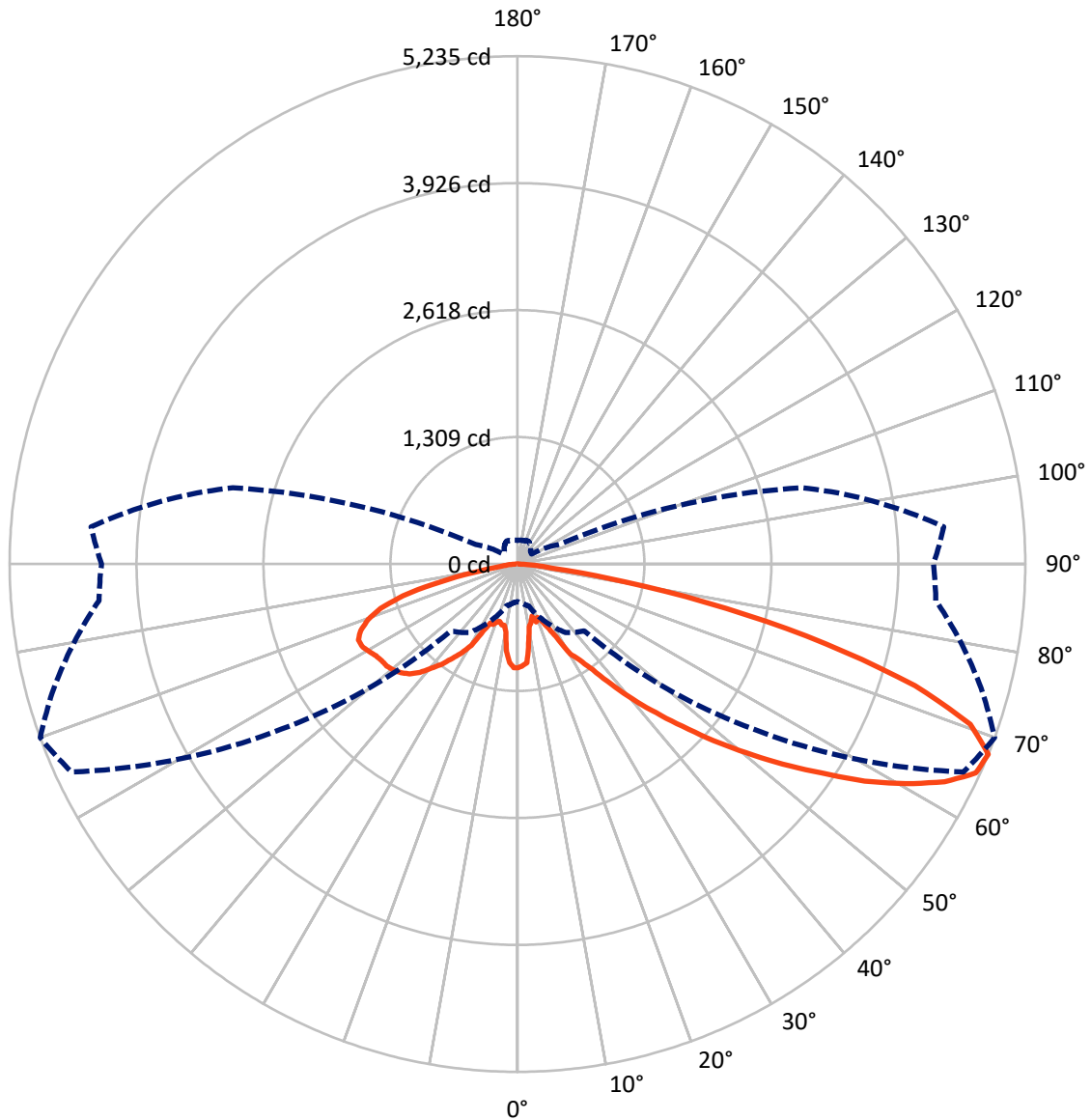
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.9 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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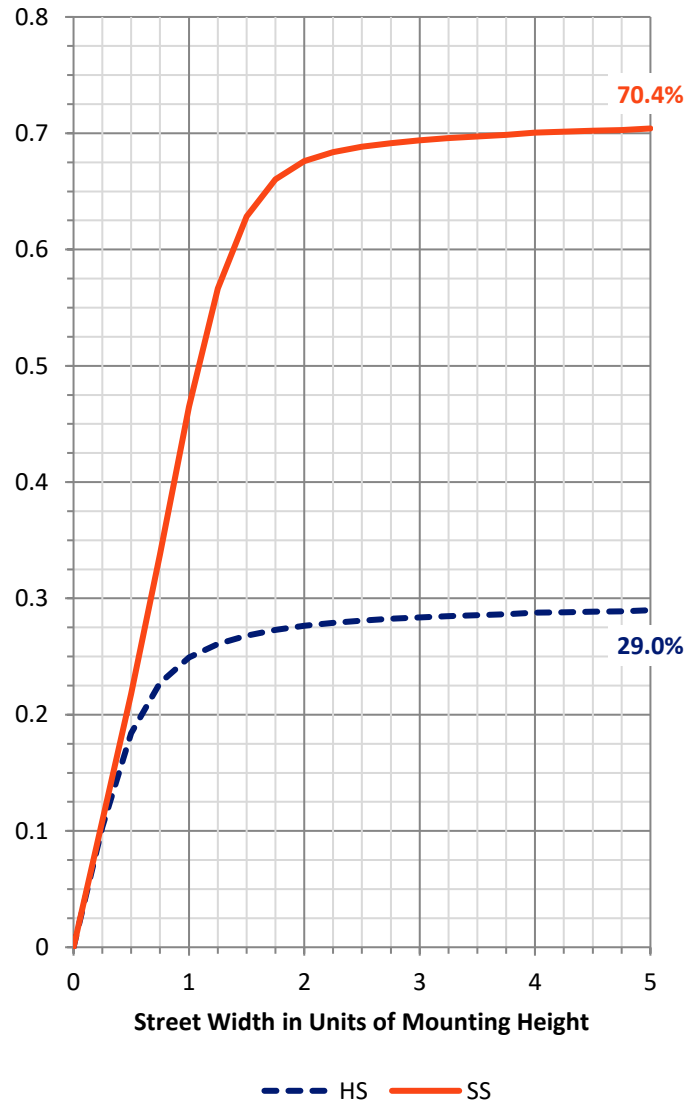
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2250.6	0.0	2250.6
	% Fixture	29.3	0.0	29.3
Street Side	Lumens	5424.0	0.0	5424.0
	% Fixture	70.7	0.0	70.7
Total	Lumens	7674.7	0.0	7674.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	1.1
10°-20°	200.9	2.6
20°-30°	357.0	4.7
30°-40°	754.7	9.8
40°-50°	1381.5	18.0
50°-60°	1884.7	24.6
60°-70°	1776.8	23.2
70°-80°	1075.4	14.0
80°-90°	158.0	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°	7674.7	100.0
0°-180°	7674.7	100.0



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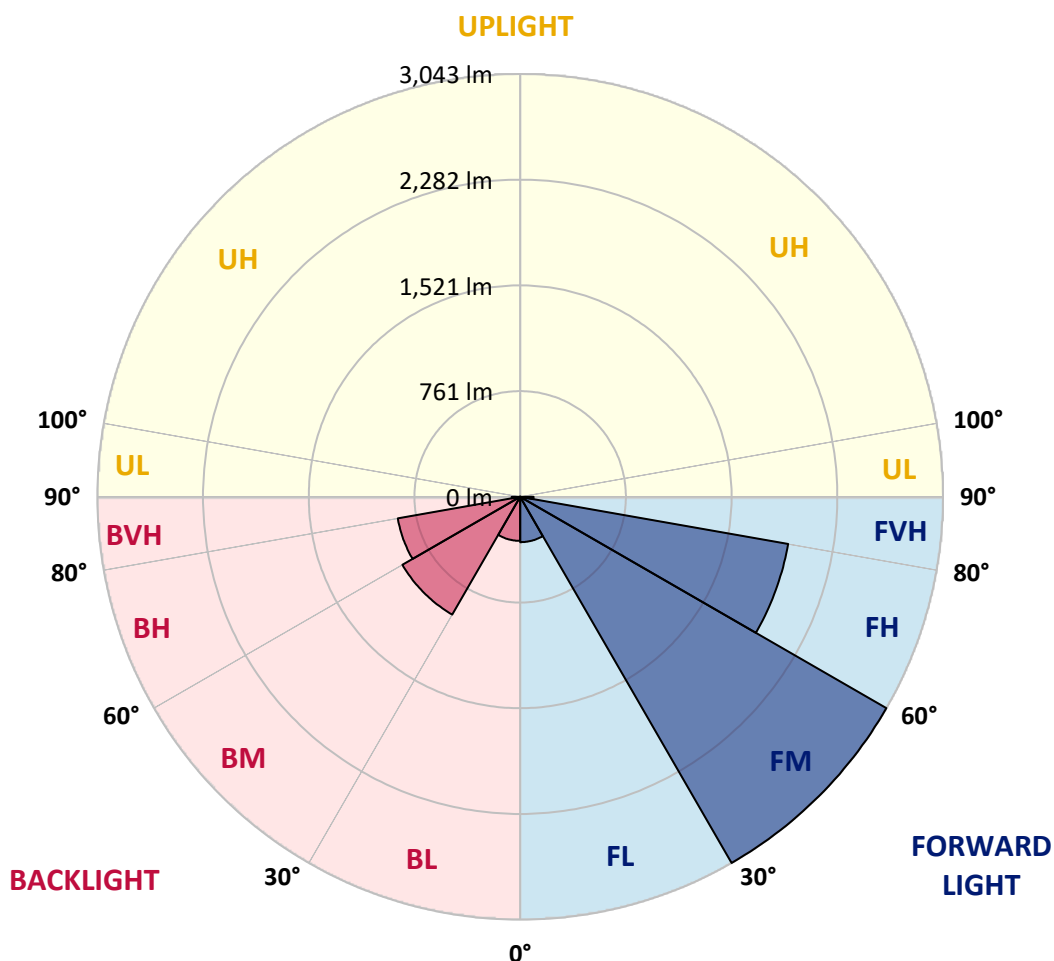
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	326.6	4.3			
FM (30°-60°)	3042.6	39.6			
FH (60°-80°)	1958.0	25.5			G2/5000
FVH (80°-90°)	96.9	1.3			G1/100
BL (0°-30°)	317.0	4.1	B1/500		
BM (30°-60°)	978.4	12.7	B1/1000		
BH (60°-80°)	894.2	11.7	B2/1000		G2/1000
BVH (80°-90°)	61.1	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°	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6
2.5°	897.4	905.7	960.9	1016.1	1018.9	1018.9	1021.7	1024.4	1032.7	1038.2	1043.8
5°	836.7	842.2	842.2	842.2	844.9	847.7	850.5	850.5	856.0	858.7	864.3
7.5°	701.4	756.6	775.9	792.5	803.5	811.8	817.3	822.9	828.4	833.9	839.4
10°	798.0	798.0	800.8	800.8	800.8	798.0	742.8	684.8	712.4	740.0	698.6
12.5°	657.2	668.2	717.9	764.9	778.7	789.7	762.1	731.7	682.0	632.3	626.8
15°	781.4	781.4	781.4	778.7	729.0	676.5	624.0	568.8	602.0	635.1	585.4
17.5°	676.5	676.5	717.9	756.6	753.8	748.3	701.4	651.7	574.3	494.3	557.8
20°	853.2	850.5	836.7	820.1	717.9	615.8	637.8	659.9	665.5	668.2	648.9
22.5°	762.1	764.9	781.4	798.0	800.8	803.5	684.8	563.3	632.3	701.4	635.1
25°	1060.3	1054.8	1029.9	1002.3	889.1	773.2	795.2	817.3	704.1	588.1	659.9
27.5°	1007.9	991.3	980.2	969.2	988.5	1007.9	902.9	795.2	820.1	844.9	753.8
30°	1441.4	1441.4	1413.8	1383.4	1212.2	1038.2	1010.6	983.0	916.7	847.7	864.3
32.5°	1825.2	1825.2	1723.0	1618.1	1515.9	1413.8	1278.5	1143.2	1115.5	1085.2	1057.6
35°	2297.4	2283.6	2225.6	2164.8	1943.9	1723.0	1549.1	1375.1	1319.9	1264.7	1237.0
37.5°	2739.2	2708.8	2628.7	2545.9	2313.9	2079.2	1850.0	1620.9	1560.1	1499.4	1438.6
40°	3103.6	3087.1	3031.9	2973.9	2711.5	2449.2	2189.7	1927.4	1847.3	1767.2	1678.8
42.5°	3437.8	3424.0	3374.2	3321.8	3062.2	2799.9	2554.2	2305.6	2186.9	2068.2	1963.2
45°	3683.5	3661.4	3628.3	3592.4	3385.3	3175.4	2926.9	2675.7	2628.7	2581.8	2377.4
47.5°	3760.8	3722.2	3716.6	3711.1	3545.4	3379.8	3181.0	2982.2	2990.4	2998.7	2761.3
50°	3647.6	3589.6	3614.5	3639.3	3573.1	3504.0	3349.4	3194.8	3263.8	3330.1	3142.3
52.5°	3236.2	3222.4	3285.9	3346.6	3363.2	3379.8	3346.6	3310.7	3437.8	3564.8	3495.7
55°	2670.1	2730.9	2819.2	2907.6	2976.6	3042.9	3139.5	3236.2	3454.3	3672.5	3722.2
57.5°	2104.1	2167.6	2269.7	2371.9	2452.0	2532.1	2730.9	2929.7	3258.3	3586.9	3810.5
60°	1416.5	1482.8	1651.2	1816.9	1930.1	2043.3	2222.8	2402.3	2816.5	3230.7	3683.5
62.5°	944.3	922.3	1063.1	1201.1	1383.4	1565.6	1645.7	1723.0	2156.5	2587.3	3319.0
65°	579.9	582.6	637.8	690.3	891.9	1090.7	1154.2	1215.0	1460.7	1706.5	2703.3
67.5°	389.3	397.6	422.5	447.3	544.0	640.6	751.1	861.5	919.5	974.7	1971.5
70°	345.2	347.9	359.0	370.0	397.6	425.2	527.4	629.6	596.4	560.5	1118.3
72.5°	303.7	306.5	325.8	342.4	356.2	370.0	430.8	491.5	452.8	414.2	557.8
75°	248.5	256.8	276.1	292.7	320.3	345.2	359.0	372.8	353.4	331.4	359.0
77.5°	204.3	209.9	223.7	237.5	265.1	289.9	303.7	317.5	287.2	256.8	273.4
80°	160.2	162.9	174.0	185.0	207.1	226.4	243.0	256.8	229.2	198.8	207.1
82.5°	96.6	99.4	116.0	129.8	149.1	165.7	176.7	185.0	193.3	198.8	174.0
85°	52.5	52.5	63.5	74.6	77.3	80.1	91.1	99.4	124.3	146.3	127.0
87.5°	8.3	8.3	11.0	11.0	16.6	19.3	22.1	22.1	24.9	24.9	27.6
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°	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6
2.5°	1046.5	1049.3	1049.3	1049.3	1052.0	1054.8	1057.6	1057.6	1060.3	1063.1	1065.8
5°	869.8	941.6	1010.6	1021.7	1029.9	1035.5	1041.0	1043.8	1049.3	1054.8	1057.6
7.5°	844.9	844.9	844.9	825.6	897.4	905.7	914.0	919.5	925.0	919.5	911.2
10°	654.4	654.4	651.7	657.2	687.6	740.0	789.7	795.2	800.8	756.6	709.6
12.5°	618.5	626.8	635.1	621.3	566.1	613.0	659.9	668.2	671.0	632.3	590.9
15°	532.9	535.7	538.4	557.8	671.0	717.9	764.9	773.2	781.4	740.0	695.8
17.5°	618.5	599.2	577.1	629.6	585.4	615.8	643.4	577.1	637.8	626.8	615.8
20°	629.6	563.3	494.3	588.1	687.6	734.5	778.7	784.2	787.0	753.8	717.9
22.5°	568.8	632.3	695.8	632.3	593.7	588.1	582.6	579.9	582.6	602.0	618.5
25°	731.7	651.7	571.6	717.9	809.0	831.1	853.2	842.2	836.7	795.2	753.8
27.5°	662.7	726.2	787.0	847.7	875.3	905.7	933.3	941.6	897.4	853.2	809.0
30°	878.1	916.7	952.6	1076.9	1168.0	1195.6	1223.2	1195.6	1179.1	1123.8	1065.8
32.5°	1027.2	1104.5	1181.8	1179.1	1264.7	1286.7	1306.1	1270.2	1239.8	1179.1	1115.5
35°	1209.4	1259.1	1308.8	1336.4	1422.0	1430.3	1438.6	1391.7	1347.5	1275.7	1203.9
37.5°	1377.9	1441.4	1502.1	1571.2	1645.7	1629.1	1609.8	1551.8	1480.0	1424.8	1369.6
40°	1587.7	1665.0	1742.3	1830.7	1874.9	1850.0	1822.4	1734.1	1665.0	1607.0	1549.1
42.5°	1855.6	1938.4	2018.5	2095.8	2112.4	2084.7	2054.4	1957.7	1852.8	1794.8	1734.1
45°	2170.3	2236.6	2302.9	2383.0	2416.1	2366.4	2313.9	2192.4	2068.2	1985.3	1902.5
47.5°	2521.0	2551.4	2581.8	2719.8	2764.0	2681.2	2595.6	2463.0	2289.1	2181.4	2070.9
50°	2954.5	2946.3	2935.2	3056.7	3158.9	3020.8	2880.0	2725.4	2554.2	2402.3	2247.7
52.5°	3426.7	3346.6	3263.8	3426.7	3476.4	3310.7	3145.1	2979.4	2808.2	2612.1	2413.3
55°	3771.9	3727.7	3683.5	3799.5	3794.0	3600.7	3404.6	3208.6	3067.7	2805.4	2543.1
57.5°	4031.4	4070.1	4106.0	4222.0	4089.4	3868.5	3647.6	3451.6	3330.1	3001.5	2672.9
60°	4133.6	4332.4	4528.5	4597.5	4395.9	4147.4	3896.1	3702.8	3600.7	3203.1	2805.4
62.5°	4050.8	4489.8	4928.8	4942.6	4677.6	4398.7	4119.8	3962.4	3909.9	3421.2	2929.7
65°	3700.1	4423.5	5144.2	5193.9	4895.7	4603.0	4307.6	4191.6	4224.7	3625.5	3023.6
67.5°	2965.6	4020.4	5072.4	5235.3	4948.2	4638.9	4329.6	4288.2	4412.5	3724.9	3037.4
70°	1676.1	3089.8	4500.8	4953.7	4801.8	4495.3	4186.1	4205.4	4390.4	3669.7	2949.0
72.5°	698.6	2137.2	3575.8	4285.5	4418.0	4158.4	3896.1	3967.9	4094.9	3410.1	2722.6
75°	386.6	1364.1	2341.5	3285.9	3694.6	3625.5	3553.7	3633.8	3573.1	2910.4	2247.7
77.5°	287.2	737.3	1187.3	2200.7	2780.6	2938.0	3092.6	3131.3	2791.6	2126.2	1460.7
80°	215.4	350.7	483.2	1123.8	1491.1	1772.7	2054.4	1880.4	1642.9	1148.7	654.4
82.5°	149.1	201.6	254.0	361.7	579.9	668.2	753.8	717.9	538.4	378.3	215.4
85°	104.9	132.5	160.2	198.8	248.5	198.8	149.1	121.5	140.8	129.8	118.7
87.5°	27.6	27.6	24.9	27.6	19.3	16.6	13.8	11.0	11.0	11.0	11.0
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°	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6
2.5°	1068.6	1071.4	1071.4	1071.4	1071.4	1068.6	1054.8	1041.0	1007.9	974.7	963.7
5°	1021.7	985.8	958.2	930.5	930.5	930.5	936.1	941.6	944.3	947.1	949.9
7.5°	911.2	908.5	919.5	930.5	938.8	947.1	952.6	958.2	947.1	936.1	911.2
10°	712.4	712.4	726.2	737.3	756.6	775.9	831.1	886.4	933.3	980.2	988.5
12.5°	646.1	698.6	668.2	635.1	704.1	773.2	833.9	891.9	938.8	983.0	947.1
15°	648.9	599.2	610.2	621.3	695.8	770.4	715.2	657.2	767.6	875.3	900.2
17.5°	618.5	621.3	671.0	720.7	646.1	568.8	665.5	762.1	803.5	842.2	806.3
20°	635.1	549.5	607.5	665.5	717.9	767.6	717.9	665.5	679.3	693.1	787.0
22.5°	671.0	723.4	673.7	624.0	684.8	742.8	717.9	693.1	737.3	778.7	740.0
25°	668.2	579.9	662.7	745.5	690.3	632.3	662.7	693.1	671.0	646.1	717.9
27.5°	770.4	731.7	709.6	684.8	715.2	745.5	682.0	618.5	618.5	618.5	610.2
30°	963.7	861.5	817.3	770.4	695.8	621.3	599.2	577.1	579.9	582.6	624.0
32.5°	1076.9	1038.2	905.7	773.2	704.1	635.1	577.1	519.1	524.6	530.2	582.6
35°	1176.3	1145.9	969.2	789.7	676.5	560.5	510.8	458.4	483.2	505.3	549.5
37.5°	1289.5	1206.7	966.4	723.4	602.0	480.5	450.1	419.7	436.3	450.1	477.7
40°	1391.7	1231.5	941.6	648.9	527.4	403.1	389.3	372.8	386.6	400.4	416.9
42.5°	1502.1	1267.4	905.7	541.2	444.6	347.9	342.4	336.9	350.7	364.5	375.5
45°	1587.7	1272.9	858.7	441.8	378.3	314.8	314.8	312.0	325.8	336.9	342.4
47.5°	1642.9	1212.2	784.2	353.4	325.8	298.2	301.0	301.0	312.0	320.3	323.1
50°	1681.6	1112.8	712.4	312.0	298.2	284.4	284.4	284.4	295.5	303.7	309.3
52.5°	1709.2	1002.3	646.1	287.2	281.6	273.4	273.4	270.6	284.4	298.2	301.0
55°	1717.5	889.1	579.9	267.8	262.3	256.8	262.3	265.1	281.6	295.5	298.2
57.5°	1736.8	800.8	524.6	248.5	245.8	243.0	251.3	259.6	276.1	292.7	292.7
60°	1775.5	742.8	486.0	229.2	229.2	229.2	243.0	254.0	270.6	287.2	284.4
62.5°	1811.4	690.3	450.1	209.9	212.6	215.4	231.9	248.5	265.1	281.6	278.9
65°	1816.9	607.5	400.4	193.3	198.8	201.6	220.9	240.2	256.8	273.4	267.8
67.5°	1756.2	474.9	325.8	176.7	185.0	190.5	212.6	231.9	248.5	262.3	256.8
70°	1645.7	339.6	251.3	162.9	171.2	176.7	198.8	218.1	231.9	245.8	240.2
72.5°	1482.8	243.0	196.0	149.1	154.6	160.2	179.5	198.8	215.4	229.2	223.7
75°	1223.2	196.0	165.7	135.3	140.8	143.6	162.9	179.5	196.0	209.9	201.6
77.5°	811.8	160.2	140.8	121.5	124.3	127.0	143.6	157.4	171.2	182.2	176.7
80°	392.1	129.8	118.7	104.9	107.7	107.7	121.5	135.3	146.3	154.6	151.9
82.5°	160.2	102.2	93.9	85.6	85.6	85.6	99.4	110.5	121.5	129.8	124.3
85°	99.4	80.1	74.6	66.3	63.5	60.7	66.3	71.8	77.3	80.1	77.3
87.5°	13.8	13.8	16.6	19.3	16.6	11.0	16.6	22.1	22.1	19.3	16.6
90°	0.0	0.0	8.3	8.3	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°	1068.6	1068.6	1068.6	1068.6
2.5°	952.6	952.6	952.6	958.2
5°	949.9	949.9	949.9	955.4
7.5°	886.4	858.7	831.1	833.9
10°	994.1	996.8	996.8	999.6
12.5°	908.5	864.3	820.1	825.6
15°	925.0	925.0	922.3	925.0
17.5°	770.4	756.6	742.8	742.8
20°	880.8	880.8	880.8	880.8
22.5°	701.4	698.6	695.8	698.6
25°	789.7	792.5	792.5	789.7
27.5°	602.0	637.8	671.0	673.7
30°	662.7	662.7	662.7	662.7
32.5°	635.1	662.7	690.3	693.1
35°	590.9	588.1	585.4	593.7
37.5°	502.5	497.0	491.5	491.5
40°	433.5	422.5	411.4	411.4
42.5°	383.8	375.5	364.5	361.7
45°	347.9	339.6	328.6	328.6
47.5°	323.1	317.5	312.0	309.3
50°	312.0	306.5	301.0	301.0
52.5°	303.7	301.0	295.5	295.5
55°	298.2	295.5	289.9	289.9
57.5°	292.7	289.9	284.4	284.4
60°	281.6	278.9	276.1	276.1
62.5°	273.4	270.6	267.8	267.8
65°	262.3	262.3	259.6	256.8
67.5°	248.5	248.5	248.5	243.0
70°	231.9	231.9	231.9	226.4
72.5°	215.4	215.4	212.6	204.3
75°	193.3	190.5	187.8	182.2
77.5°	171.2	165.7	160.2	157.4
80°	146.3	140.8	135.3	129.8
82.5°	116.0	113.2	107.7	93.9
85°	71.8	63.5	52.5	46.9
87.5°	13.8	11.0	8.3	2.8
90°	0.0	0.0	0.0	0.0

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