

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: P560511

Luminaire Tested: **SDL-PA1-50-727-U-SL3**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P560511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-16)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-50-727-U-SL3
Description: Springdale
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5352 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.4
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

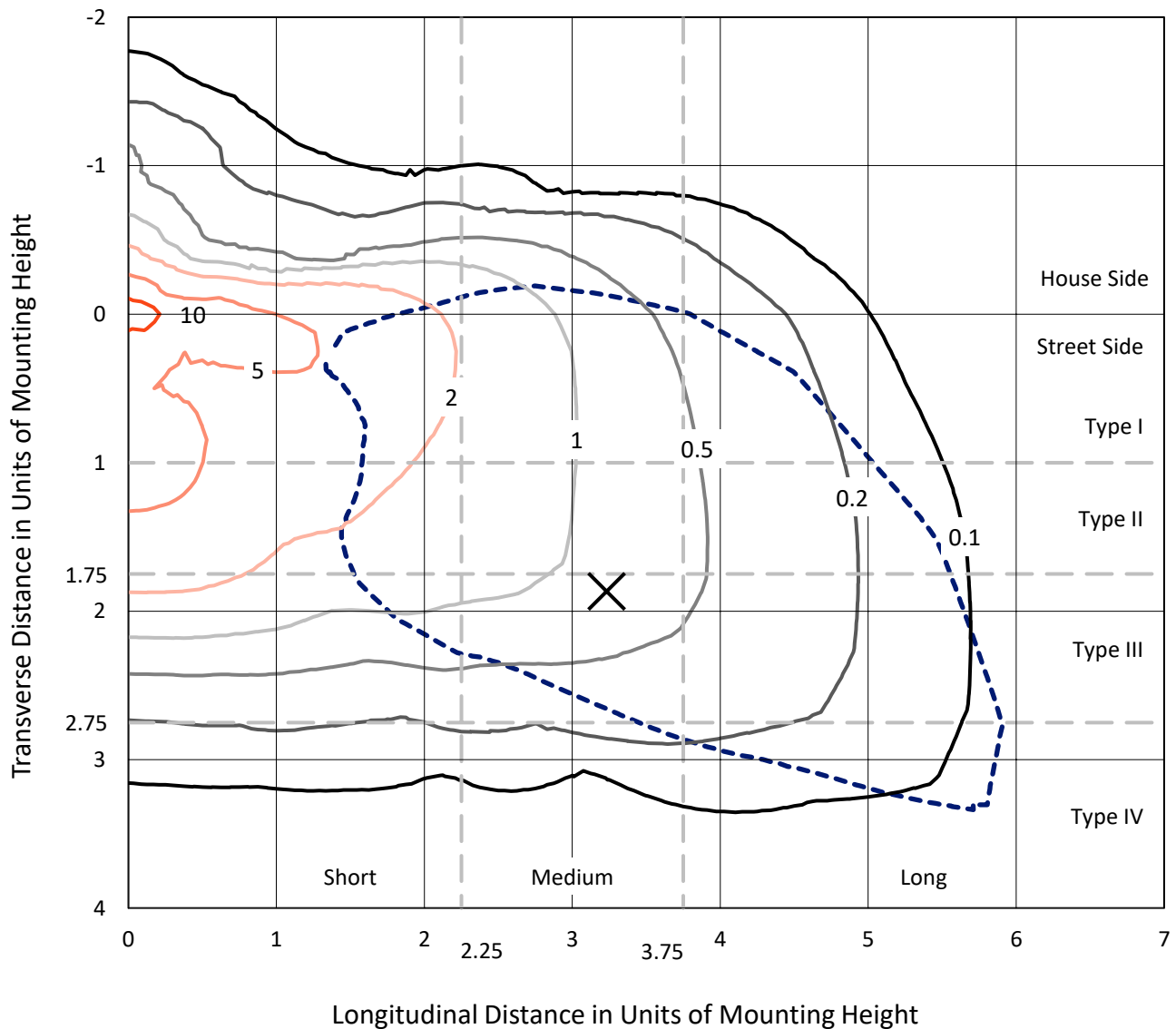


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

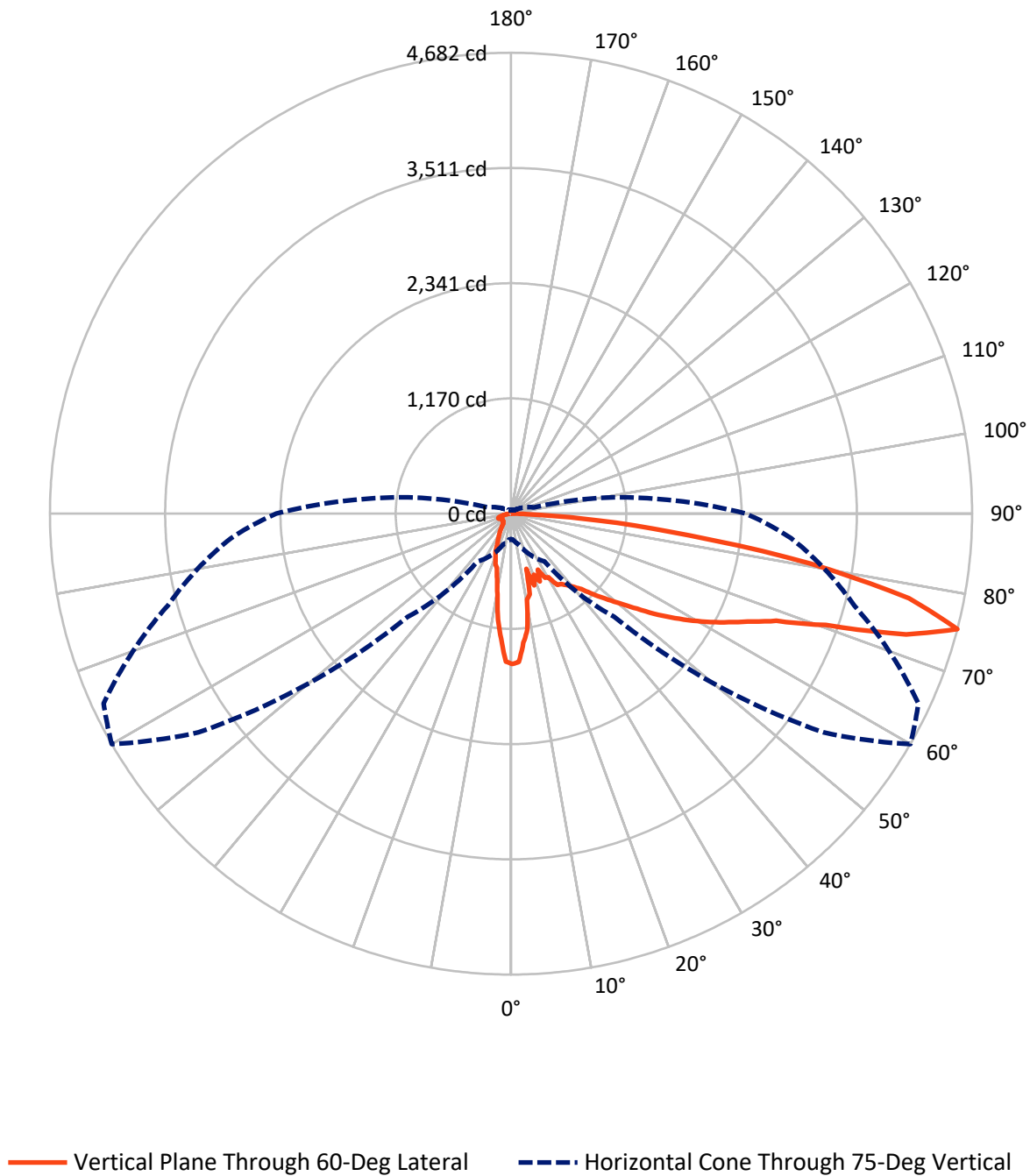


Based on 10 foot mounting height. Maximum calculated value = 15.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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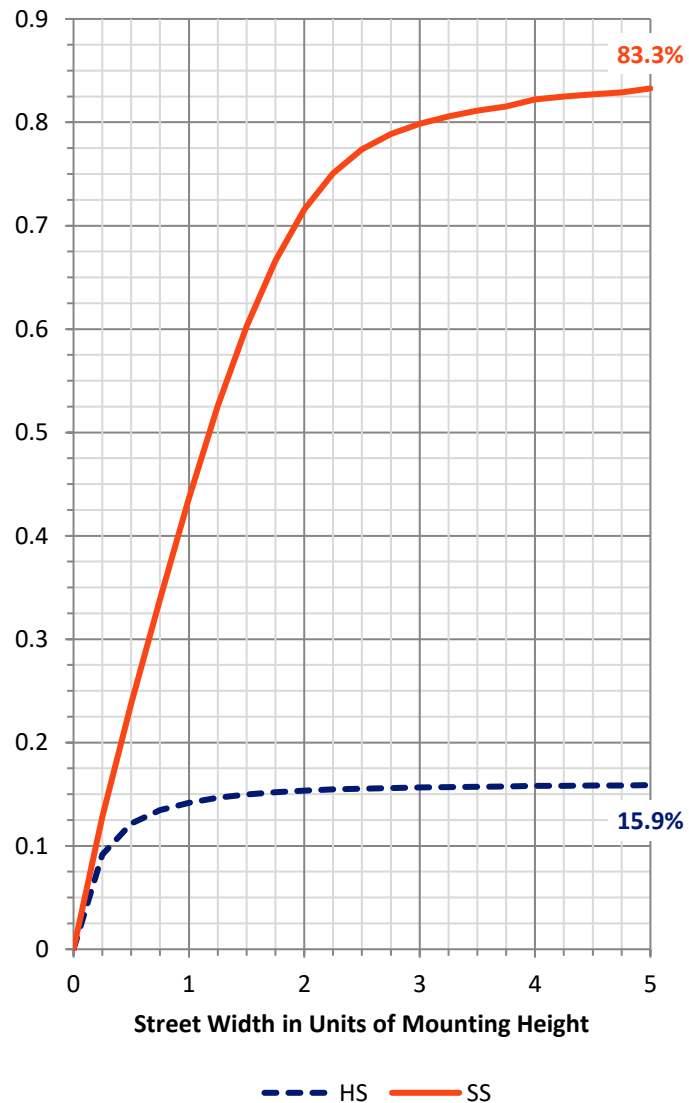
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	860.2	0.0	860.2
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	4491.7	0.0	4491.7
	% Fixture	83.9	0.0	83.9
Total	Lumens	5352.0	0.0	5352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	2.1
10°-20°	200.9	3.8
20°-30°	263.2	4.9
30°-40°	434.3	8.1
40°-50°	678.3	12.7
50°-60°	1032.6	19.3
60°-70°	1279.4	23.9
70°-80°	1130.3	21.1
80°-90°	221.6	4.1
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°	5352.0	100.0
0°-180°	5352.0	100.0

Coefficient of Utilization



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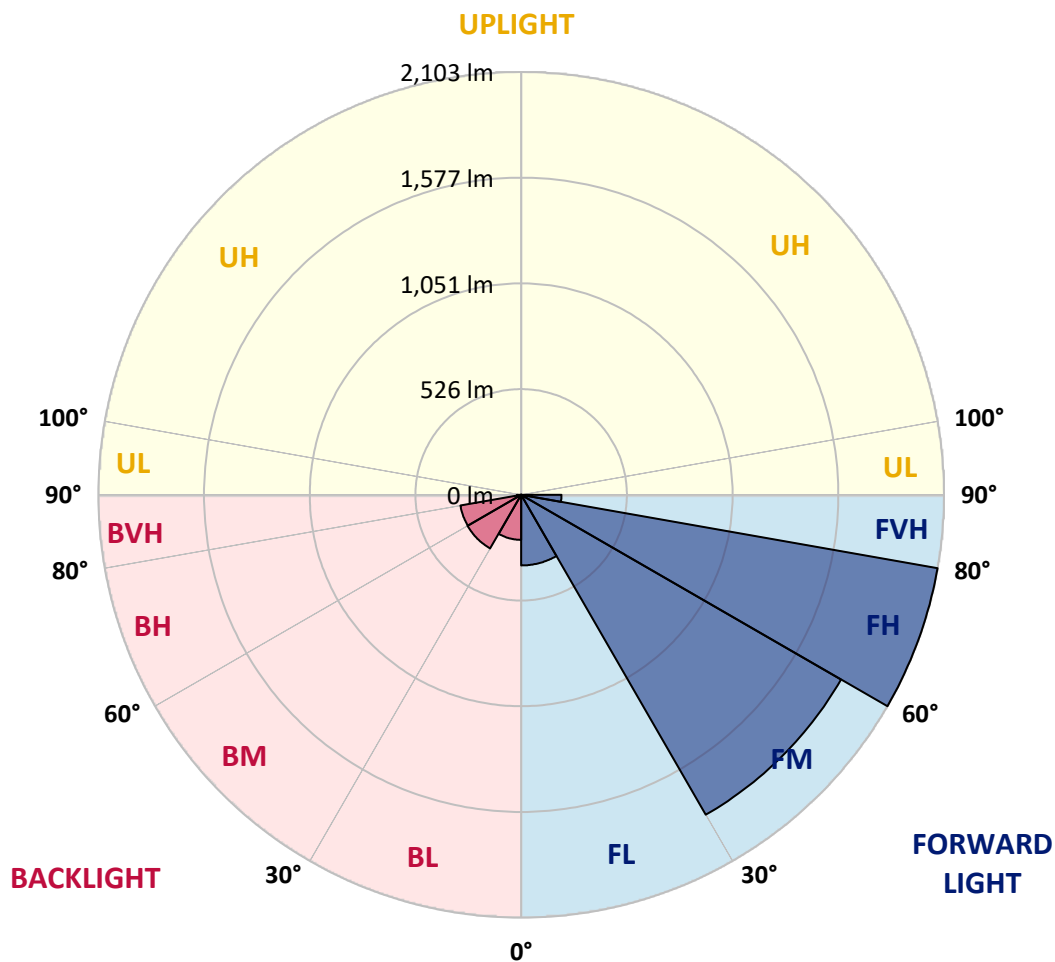
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	351.4	6.6			
FM	(30°-60°)	1837.0	34.3			
FH	(60°-80°)	2103.0	39.3			G2/5000
FVH	(80°-90°)	200.4	3.7			G2/225
BL	(0°-30°)	224.1	4.2	B1/500		
BM	(30°-60°)	308.2	5.8	B1/1000		
BH	(60°-80°)	306.8	5.7	B1/500		G1/500
BVH	(80°-90°)	21.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6
2.5°	1267.9	1411.0	1377.7	1344.3	1395.3	1444.3	1460.0	1473.7	1481.5	1489.4	1497.2
5°	1177.8	1179.7	1181.7	1183.7	1189.5	1193.5	1201.3	1209.1	1217.0	1222.8	1230.7
7.5°	909.3	940.7	991.6	1042.6	1073.9	1103.3	1120.9	1136.6	1148.4	1160.1	1171.9
10°	1011.2	1017.1	1019.0	1019.0	1028.8	1038.6	964.2	887.7	925.0	962.2	921.1
12.5°	793.7	815.2	879.9	942.6	962.2	979.8	944.6	909.3	854.4	797.6	793.7
15°	911.3	917.1	919.1	919.1	858.3	797.6	756.4	713.3	746.6	778.0	705.5
17.5°	705.5	711.4	762.3	813.3	823.1	832.9	789.8	746.6	650.6	552.6	644.7
20°	838.7	842.7	842.7	842.7	740.8	638.9	646.7	652.6	683.9	715.3	689.8
22.5°	676.1	676.1	676.1	676.1	707.4	736.8	674.1	611.4	646.7	682.0	650.6
25°	850.5	856.4	842.7	827.0	732.9	638.9	668.3	697.6	644.7	591.8	638.9
27.5°	776.0	770.2	742.7	713.3	727.0	740.8	676.1	611.4	652.6	693.7	674.1
30°	1030.8	1013.2	983.8	954.4	842.7	731.0	713.3	695.7	660.4	623.2	664.3
32.5°	1369.8	1324.7	1187.6	1050.4	981.8	913.2	825.0	736.8	729.0	719.2	731.0
35°	1460.0	1430.6	1373.7	1315.0	1197.4	1077.8	966.1	852.5	815.2	776.0	783.9
37.5°	1477.6	1467.8	1456.0	1442.3	1322.8	1203.2	1081.7	960.2	921.1	879.9	850.5
40°	1491.3	1499.2	1520.7	1540.3	1420.8	1299.3	1189.5	1077.8	1036.7	993.6	942.6
42.5°	1554.0	1575.6	1603.0	1628.5	1518.8	1409.0	1313.0	1217.0	1164.1	1111.1	1064.1
45°	1699.1	1710.8	1740.2	1767.6	1663.8	1558.0	1448.2	1336.5	1291.4	1246.4	1199.3
47.5°	1910.7	1930.3	1928.3	1926.4	1810.8	1693.2	1569.7	1444.3	1414.9	1383.5	1338.5
50°	2177.2	2163.5	2126.3	2089.0	1963.6	1836.2	1691.2	1544.2	1530.5	1514.8	1477.6
52.5°	2310.5	2300.7	2249.7	2196.8	2069.4	1942.1	1785.3	1626.5	1644.2	1661.8	1626.5
55°	2318.3	2312.4	2275.2	2238.0	2114.5	1991.0	1851.9	1712.8	1755.9	1799.0	1785.3
57.5°	2261.5	2263.4	2251.7	2238.0	2128.2	2018.5	1902.9	1787.2	1861.7	1934.2	1947.9
60°	2116.5	2145.9	2165.5	2185.1	2116.5	2047.9	1947.9	1848.0	1961.6	2075.3	2112.5
62.5°	1848.0	1873.5	1944.0	2012.6	2026.3	2038.1	1971.4	1902.9	2055.7	2206.6	2267.4
65°	1432.5	1467.8	1573.6	1679.5	1789.2	1898.9	1914.6	1930.3	2189.0	2447.7	2498.6
67.5°	893.6	913.2	1024.9	1134.7	1356.1	1575.6	1701.0	1826.4	2273.2	2718.1	2798.4
70°	472.3	501.7	556.6	609.5	799.6	989.6	1244.4	1499.2	2145.9	2792.6	3121.8
72.5°	358.6	370.4	399.8	429.2	495.8	562.4	723.1	883.8	1679.5	2473.1	3231.5
75°	258.7	268.5	299.8	329.2	395.9	460.5	527.2	591.8	1036.7	1481.5	2678.9
77.5°	150.9	154.8	170.5	184.2	288.1	391.9	464.4	535.0	642.8	748.6	1912.7
80°	103.9	105.8	111.7	117.6	162.7	207.7	346.9	486.0	535.0	582.0	1267.9
82.5°	68.6	78.4	82.3	86.2	101.9	117.6	203.8	288.1	423.3	556.6	866.2
85°	35.3	39.2	47.0	52.9	60.8	66.6	92.1	115.6	350.8	584.0	623.2
87.5°	3.9	5.9	7.8	7.8	9.8	11.8	17.6	23.5	105.8	188.1	160.7
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°	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6
2.5°	1505.0	1509.0	1507.0	1510.9	1512.9	1514.8	1516.8	1516.8	1514.8	1510.9	1507.0
5°	1238.5	1316.9	1450.2	1463.9	1477.6	1481.5	1485.4	1487.4	1483.5	1477.6	1471.7
7.5°	1181.7	1193.5	1073.9	1169.9	1264.0	1271.8	1277.7	1273.8	1275.8	1222.8	1168.0
10°	879.9	889.7	893.6	923.0	950.4	1015.1	1079.8	1070.0	1062.2	968.1	872.1
12.5°	789.8	840.7	852.5	803.5	754.5	821.1	887.7	879.9	866.2	780.0	693.7
15°	633.0	580.1	693.7	799.6	903.4	966.1	1026.9	1009.2	993.6	883.8	772.1
17.5°	734.9	766.2	729.0	744.7	760.4	807.4	852.5	825.0	815.2	738.8	660.4
20°	664.3	662.4	636.9	729.0	821.1	913.2	1003.4	975.9	928.9	780.0	629.1
22.5°	619.3	746.6	801.5	789.8	776.0	740.8	703.5	680.0	644.7	611.4	576.1
25°	683.9	631.0	674.1	815.2	954.4	979.8	1005.3	946.5	870.1	719.2	568.3
27.5°	654.5	736.8	791.7	885.8	977.9	1066.1	1154.3	1075.9	975.9	787.8	597.7
30°	705.5	750.6	903.4	1079.8	1256.2	1287.5	1316.9	1209.1	1075.9	885.8	695.7
32.5°	742.7	862.3	997.5	1134.7	1269.9	1293.4	1316.9	1195.4	1042.6	832.9	623.2
35°	789.8	877.9	1001.4	1162.1	1322.8	1328.7	1332.6	1191.5	1019.0	781.9	542.8
37.5°	821.1	921.1	1054.3	1224.8	1395.3	1383.5	1369.8	1209.1	1011.2	746.6	482.1
40°	891.7	977.9	1120.9	1295.4	1469.8	1450.2	1430.6	1246.4	1013.2	711.4	407.6
42.5°	1015.1	1048.4	1203.2	1389.4	1575.6	1554.0	1530.5	1311.0	1036.7	691.8	344.9
45°	1150.3	1166.0	1299.3	1510.9	1722.6	1695.1	1667.7	1411.0	1079.8	682.0	284.2
47.5°	1291.4	1287.5	1411.0	1667.7	1922.5	1863.7	1804.9	1528.6	1160.1	701.6	243.0
50°	1438.4	1432.5	1552.1	1828.4	2104.7	2042.0	1979.3	1669.7	1252.2	736.8	219.5
52.5°	1589.3	1603.0	1691.2	1979.3	2265.4	2208.6	2149.8	1822.5	1342.4	776.0	209.7
55°	1769.6	1812.7	1848.0	2136.1	2424.1	2367.3	2308.5	1979.3	1467.8	836.8	205.8
57.5°	1959.7	2016.5	2032.2	2294.8	2557.4	2520.2	2481.0	2128.2	1595.2	907.3	217.5
60°	2149.8	2224.2	2281.1	2492.7	2702.4	2659.3	2616.2	2279.1	1714.7	985.7	256.7
62.5°	2326.2	2430.0	2522.1	2676.9	2829.8	2778.8	2727.9	2410.4	1849.9	1093.5	335.1
65°	2547.6	2639.7	2739.6	2841.5	2941.5	2892.5	2843.5	2575.0	2030.2	1228.7	425.3
67.5°	2878.8	2906.2	2957.2	3019.9	3080.6	3051.2	3019.9	2776.9	2187.0	1307.1	425.3
70°	3449.1	3388.3	3311.9	3309.9	3306.0	3259.0	3210.0	2890.5	2196.8	1275.8	354.7
72.5°	3988.0	4195.7	3952.7	3776.3	3599.9	3392.2	3182.5	2737.7	1940.1	1111.1	282.2
75°	3874.3	4681.7	4564.1	4086.0	3607.8	3231.5	2855.3	2384.9	1597.1	919.1	241.0
77.5°	3074.8	4131.0	4242.7	3803.8	3362.8	2853.3	2341.8	1844.1	1107.2	654.5	201.8
80°	1951.8	3088.5	3108.1	2700.5	2290.9	1744.1	1197.4	803.5	533.0	346.9	160.7
82.5°	1175.8	1828.4	1591.3	1140.5	689.8	478.2	264.6	254.8	196.0	145.0	94.1
85°	662.4	895.6	642.8	421.3	199.9	143.1	84.3	90.1	86.2	70.5	52.9
87.5°	131.3	154.8	105.8	60.8	15.7	15.7	13.7	13.7	9.8	9.8	7.8
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°	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6	1526.6
2.5°	1507.0	1507.0	1503.1	1499.2	1497.2	1495.2	1436.5	1377.7	1338.5	1297.3	1287.5
5°	1399.2	1326.7	1271.8	1217.0	1205.2	1193.5	1191.5	1189.5	1183.7	1175.8	1173.9
7.5°	1105.3	1040.6	1085.7	1128.8	1120.9	1111.1	1105.3	1097.4	1083.7	1070.0	1001.4
10°	850.5	828.9	828.9	827.0	811.3	795.6	830.9	866.2	905.4	944.6	940.7
12.5°	725.1	754.5	678.1	599.7	642.8	683.9	723.1	760.4	780.0	799.6	738.8
15°	683.9	593.8	568.3	542.8	562.4	582.0	525.2	466.4	511.5	556.6	566.4
17.5°	613.4	566.4	540.9	513.4	439.0	362.5	388.0	413.5	411.5	409.6	399.8
20°	572.2	513.4	468.4	421.3	386.1	350.8	313.6	274.4	256.7	237.1	284.2
22.5°	544.8	513.4	419.4	325.3	297.9	270.4	241.0	209.7	221.4	231.2	239.1
25°	476.2	382.1	329.2	276.3	233.2	188.1	190.1	192.0	182.3	172.5	217.5
27.5°	482.1	364.5	282.2	199.9	184.2	166.6	156.8	145.0	160.7	174.4	178.3
30°	505.6	315.5	239.1	162.7	145.0	127.4	133.3	137.2	137.2	137.2	156.8
32.5°	448.8	274.4	203.8	131.3	121.5	109.7	111.7	111.7	121.5	131.3	141.1
35°	380.2	215.6	166.6	115.6	105.8	96.0	99.9	103.9	113.7	123.5	137.2
37.5°	327.3	170.5	137.2	103.9	98.0	92.1	94.1	96.0	105.8	113.7	125.4
40°	276.3	143.1	121.5	99.9	94.1	88.2	90.1	90.1	98.0	105.8	113.7
42.5°	239.1	131.3	115.6	98.0	92.1	84.3	86.2	86.2	92.1	98.0	103.9
45°	205.8	125.4	111.7	96.0	90.1	82.3	82.3	80.3	86.2	90.1	94.1
47.5°	184.2	123.5	109.7	96.0	88.2	78.4	76.4	74.5	80.3	84.3	90.1
50°	172.5	123.5	109.7	94.1	84.3	74.5	72.5	70.5	78.4	84.3	94.1
52.5°	168.5	125.4	109.7	94.1	82.3	70.5	70.5	70.5	84.3	98.0	101.9
55°	168.5	129.3	111.7	92.1	80.3	68.6	72.5	76.4	80.3	84.3	84.3
57.5°	172.5	127.4	107.8	88.2	80.3	70.5	68.6	66.6	68.6	70.5	70.5
60°	190.1	123.5	103.9	84.3	74.5	64.7	62.7	60.8	64.7	66.6	66.6
62.5°	229.3	121.5	103.9	84.3	72.5	60.8	60.8	58.8	60.8	62.7	64.7
65°	280.2	135.2	109.7	84.3	72.5	60.8	56.8	52.9	56.8	58.8	58.8
67.5°	292.0	158.7	127.4	94.1	76.4	58.8	54.9	51.0	54.9	56.8	56.8
70°	264.6	174.4	137.2	99.9	80.3	58.8	54.9	49.0	51.0	52.9	51.0
72.5°	227.3	170.5	135.2	98.0	78.4	56.8	52.9	47.0	49.0	49.0	47.0
75°	194.0	147.0	115.6	82.3	66.6	49.0	45.1	41.2	43.1	43.1	43.1
77.5°	162.7	121.5	94.1	64.7	52.9	39.2	37.2	35.3	37.2	39.2	37.2
80°	127.4	92.1	70.5	47.0	39.2	29.4	31.4	31.4	33.3	33.3	33.3
82.5°	74.5	54.9	45.1	33.3	27.4	21.6	23.5	25.5	27.4	27.4	27.4
85°	45.1	35.3	29.4	23.5	19.6	13.7	17.6	19.6	19.6	19.6	17.6
87.5°	7.8	7.8	7.8	7.8	5.9	3.9	7.8	9.8	9.8	9.8	7.8
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):

	165°	170°	175°	180°
0°	1526.6	1526.6	1526.6	1526.6
2.5°	1275.8	1275.8	1273.8	1273.8
5°	1171.9	1168.0	1164.1	1168.0
7.5°	932.8	905.4	877.9	885.8
10°	934.8	932.8	930.9	928.9
12.5°	676.1	654.5	633.0	619.3
15°	574.2	568.3	560.5	560.5
17.5°	388.0	370.4	352.7	341.0
20°	331.2	341.0	348.8	352.7
22.5°	246.9	254.8	262.6	266.5
25°	260.6	280.2	297.9	299.8
27.5°	180.3	190.1	197.9	194.0
30°	176.4	182.3	188.1	188.1
32.5°	150.9	166.6	182.3	184.2
35°	150.9	158.7	166.6	168.5
37.5°	135.2	141.1	145.0	147.0
40°	121.5	125.4	127.4	127.4
42.5°	107.8	117.6	125.4	125.4
45°	96.0	121.5	147.0	154.8
47.5°	94.1	131.3	168.5	176.4
50°	101.9	137.2	170.5	174.4
52.5°	103.9	123.5	141.1	141.1
55°	82.3	92.1	99.9	98.0
57.5°	70.5	78.4	84.3	84.3
60°	66.6	76.4	84.3	86.2
62.5°	64.7	68.6	72.5	76.4
65°	58.8	58.8	58.8	58.8
67.5°	54.9	54.9	52.9	52.9
70°	49.0	49.0	49.0	49.0
72.5°	45.1	45.1	45.1	43.1
75°	41.2	41.2	39.2	39.2
77.5°	35.3	35.3	35.3	35.3
80°	31.4	31.4	29.4	29.4
82.5°	25.5	25.5	23.5	21.6
85°	15.7	15.7	13.7	11.8
87.5°	5.9	5.9	3.9	2.0
90°	0.0	0.0	0.0	0.0

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