

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: P560659

Luminaire Tested: **SDL-PA1-50-830-U-T4W**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P560659
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-PA1-50-830-U-T4W
Description: Springdale
(1) 80 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5085.3 lumens
Efficiency: N/A
Efficacy: 97.0 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: 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

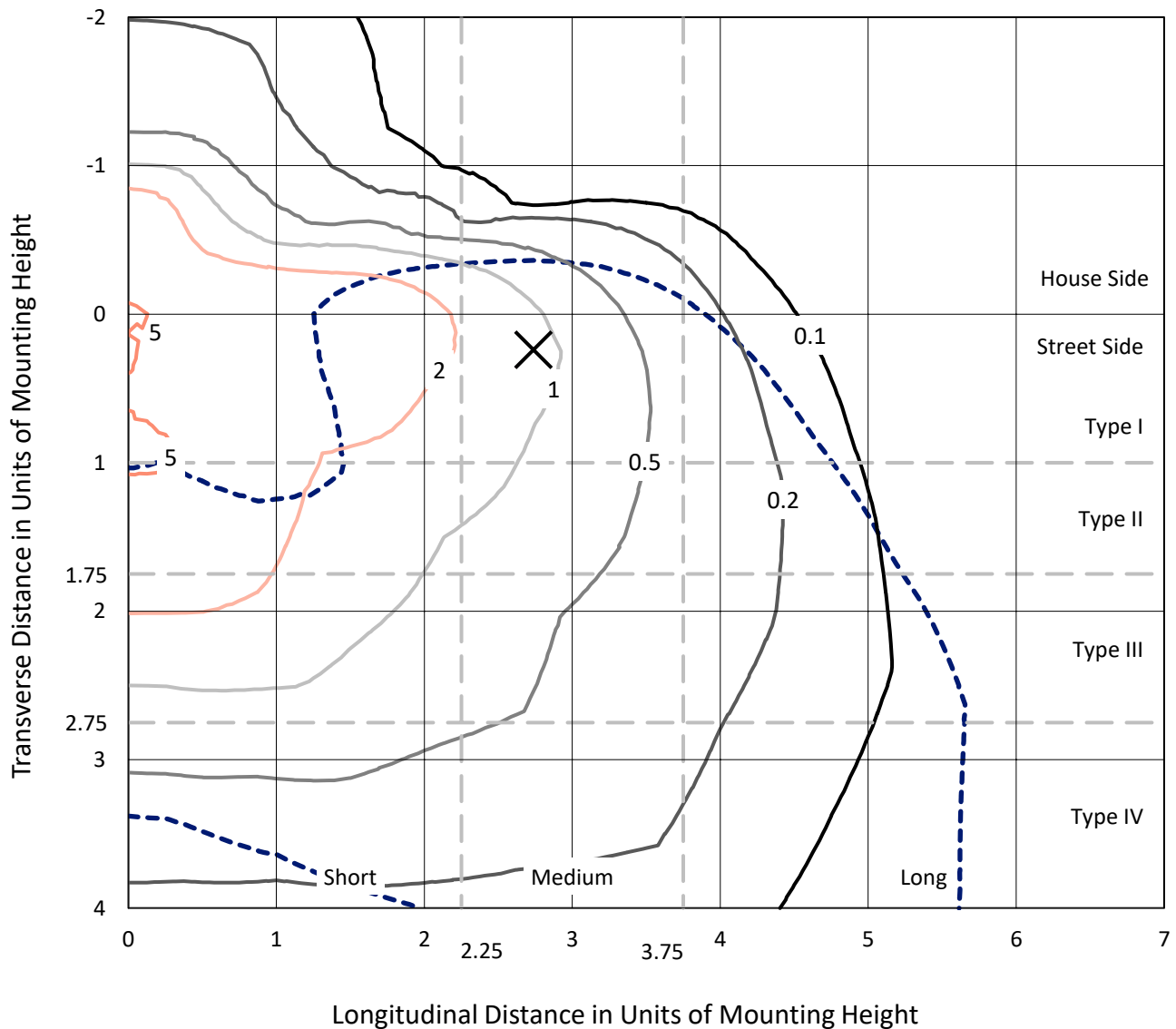


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

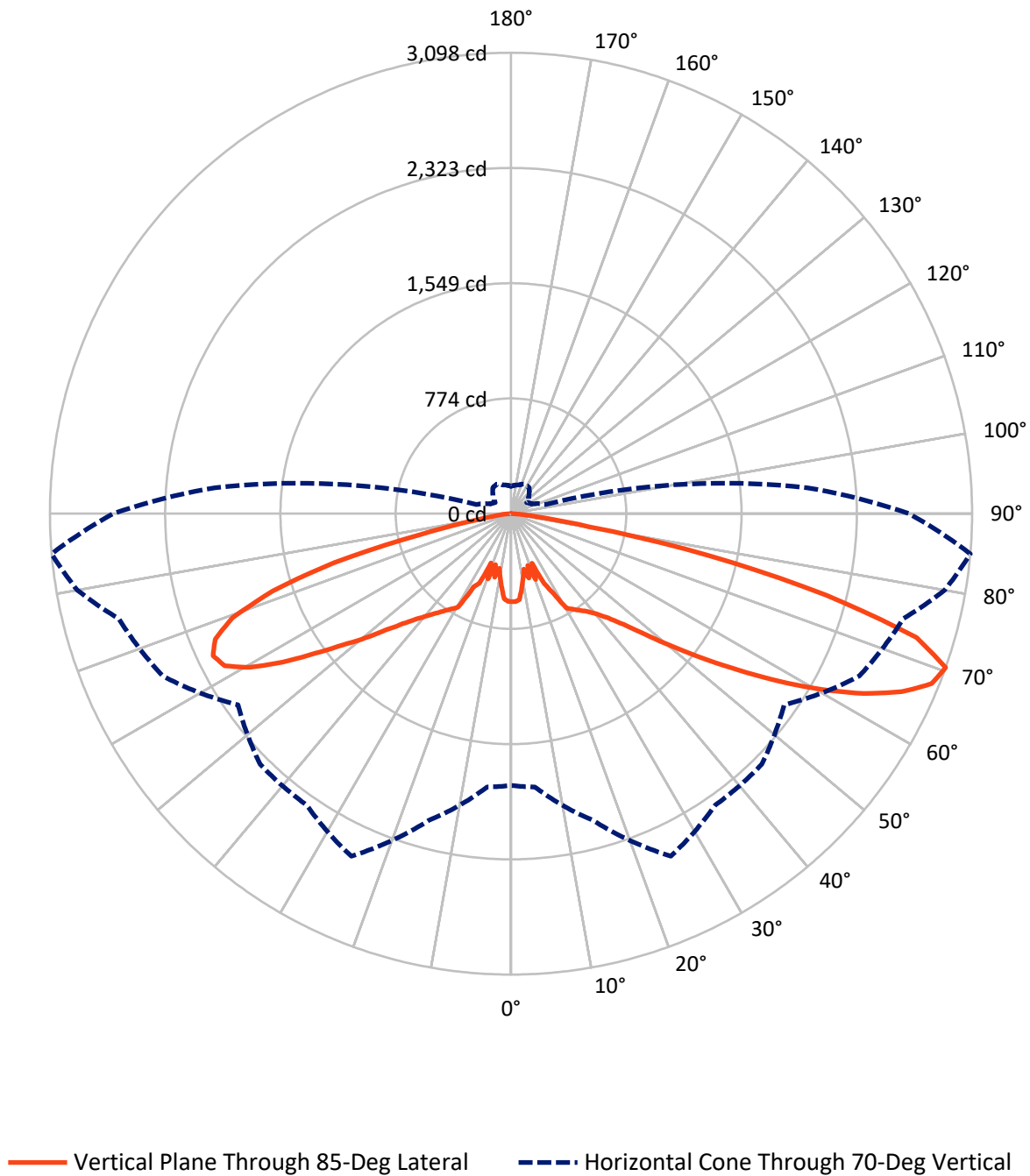


Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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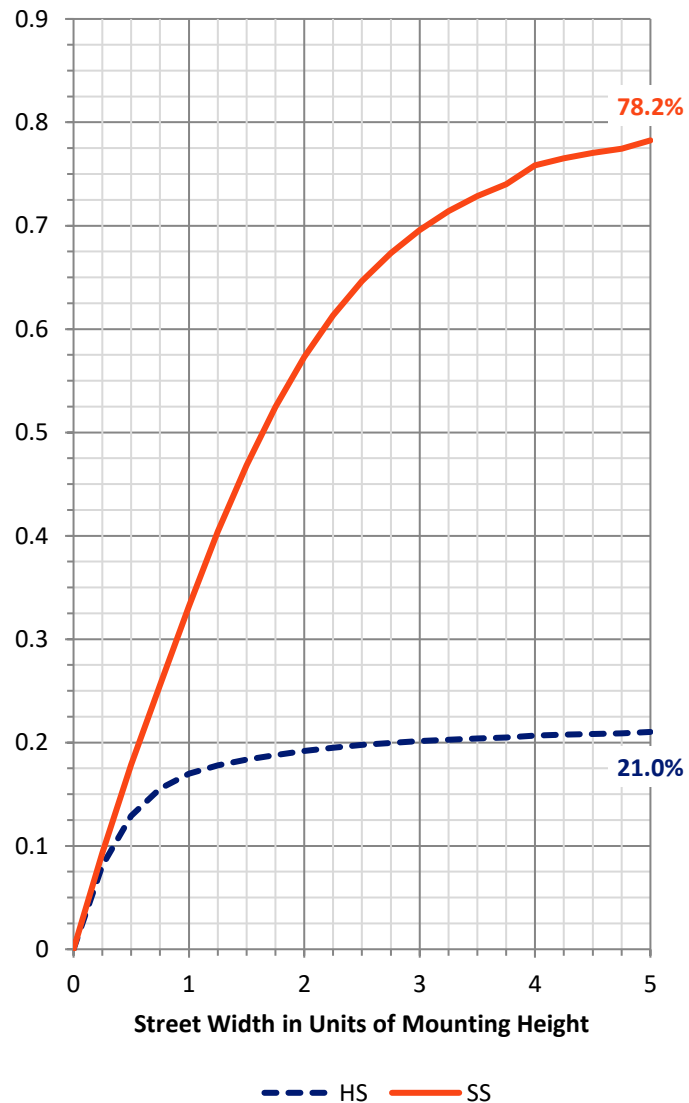
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1093.4	0.0	1093.4
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	3991.9	0.0	3991.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	5085.3	0.0	5085.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	1.0
10°-20°	123.8	2.4
20°-30°	216.4	4.3
30°-40°	381.1	7.5
40°-50°	574.9	11.3
50°-60°	914.5	18.0
60°-70°	1341.0	26.4
70°-80°	1257.5	24.7
80°-90°	227.1	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°	5085.3	100.0
0°-180°	5085.3	100.0

Coefficient of Utilization



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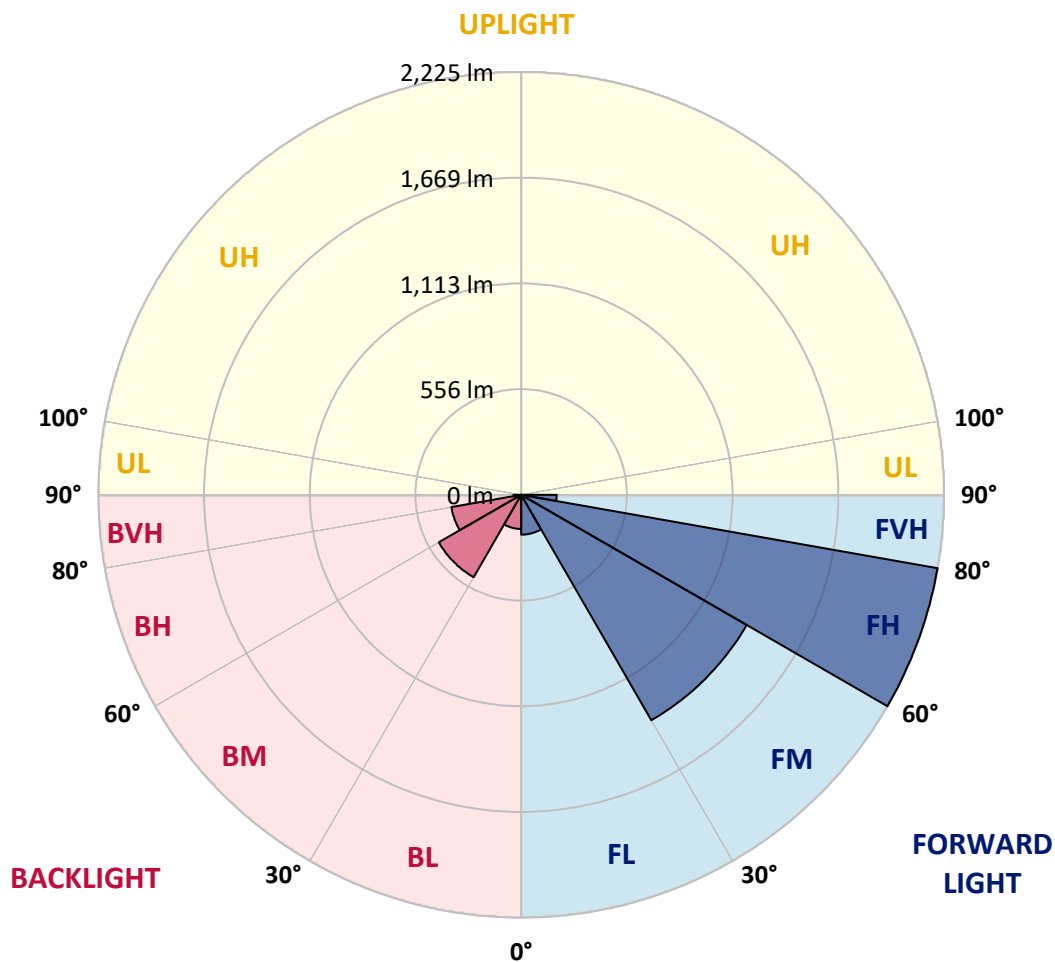
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	209.7	4.1			
FM	(30°-60°)	1370.0	26.9			
FH	(60°-80°)	2225.3	43.8			G2/5000
FVH	(80°-90°)	187.0	3.7			G2/225
BL	(0°-30°)	179.5	3.5	B1/500		
BM	(30°-60°)	500.5	9.8	B1/1000		
BH	(60°-80°)	373.2	7.3	B1/500		G1/500
BVH	(80°-90°)	40.1	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	591.3	591.3	591.3	591.3	591.3	591.3	591.3	591.3	591.3	591.3	591.3
2.5°	536.9	559.4	570.7	582.0	585.7	589.5	589.5	587.6	587.6	587.6	591.3
5°	546.3	544.4	544.4	544.4	542.5	540.7	538.8	535.0	533.1	529.4	527.5
7.5°	501.2	538.8	540.7	542.5	542.5	540.7	544.4	548.2	544.4	538.8	531.3
10°	595.1	593.2	589.5	585.7	580.1	574.4	531.3	486.2	490.0	493.7	458.1
12.5°	516.2	551.9	566.9	582.0	583.8	583.8	553.8	521.9	480.6	439.3	422.4
15°	630.8	627.0	619.5	612.0	561.3	508.7	478.7	448.7	448.7	448.7	398.0
17.5°	531.3	529.4	563.2	597.0	578.2	559.4	516.2	473.1	409.2	343.5	384.8
20°	651.4	651.4	642.0	632.6	546.3	458.1	463.7	467.4	469.3	469.3	450.5
22.5°	546.3	542.5	546.3	548.2	548.2	548.2	469.3	390.5	433.6	474.9	431.8
25°	651.4	653.3	651.4	649.5	570.7	490.0	503.1	516.2	456.2	394.2	435.5
27.5°	568.8	566.9	557.5	548.2	550.0	551.9	510.6	467.4	491.8	516.2	473.1
30°	696.5	698.3	692.7	685.2	606.4	527.5	523.8	518.1	501.2	484.3	499.4
32.5°	841.0	841.0	782.8	724.6	675.8	625.1	583.8	542.5	559.4	576.3	557.5
35°	918.0	914.2	895.5	874.8	784.7	692.7	636.4	578.2	583.8	587.6	587.6
37.5°	1055.0	1053.1	1026.9	1000.6	878.6	754.7	681.4	606.4	617.6	627.0	613.9
40°	1225.9	1225.9	1205.2	1182.7	1026.9	869.2	765.9	662.7	660.8	657.0	642.0
42.5°	1391.1	1396.7	1383.5	1370.4	1188.3	1006.2	871.1	735.9	719.0	702.1	687.1
45°	1499.9	1507.4	1518.7	1530.0	1349.8	1169.5	1011.8	852.3	820.4	786.6	760.3
47.5°	1610.7	1599.4	1614.5	1629.5	1475.5	1321.6	1148.9	976.2	923.6	871.1	842.9
50°	1713.9	1710.2	1715.8	1721.5	1595.7	1469.9	1291.6	1113.2	1049.4	983.7	951.8
52.5°	1849.1	1836.0	1828.5	1820.9	1713.9	1606.9	1438.0	1267.2	1192.1	1115.1	1077.6
55°	1978.6	1973.0	1961.7	1948.6	1856.6	1764.6	1586.3	1408.0	1329.1	1250.3	1207.1
57.5°	2111.9	2108.2	2106.3	2104.4	2023.7	1943.0	1760.9	1576.9	1486.8	1394.8	1359.1
60°	2237.7	2239.6	2254.6	2267.7	2205.8	2143.8	1959.9	1775.9	1661.4	1545.0	1509.3
62.5°	2312.8	2318.4	2356.0	2391.6	2357.8	2324.1	2134.5	1943.0	1822.8	1700.8	1676.4
65°	2217.1	2245.2	2354.1	2463.0	2463.0	2463.0	2290.3	2115.7	2010.6	1905.4	1884.8
67.5°	2003.0	2031.2	2187.0	2341.0	2421.7	2502.4	2389.8	2277.1	2205.8	2132.6	2106.3
70°	1826.6	1843.5	1989.9	2134.5	2337.2	2539.9	2466.7	2391.6	2387.9	2382.3	2310.9
72.5°	1678.3	1715.8	1836.0	1954.2	2233.9	2513.7	2511.8	2509.9	2586.9	2663.8	2526.8
75°	1342.2	1338.5	1451.1	1563.8	1879.1	2192.6	2369.1	2543.7	2765.2	2984.9	2774.6
77.5°	598.8	640.1	747.2	854.2	1137.6	1419.2	1759.0	2098.8	2586.9	3073.1	2859.1
80°	170.8	180.2	210.3	238.4	371.7	503.1	859.8	1214.6	1828.5	2440.4	2295.9
82.5°	90.1	93.9	112.6	129.5	167.1	202.7	337.9	471.2	998.7	1524.3	1392.9
85°	43.2	39.4	50.7	60.1	80.7	101.4	155.8	210.3	386.7	563.2	486.2
87.5°	9.4	9.4	11.3	11.3	16.9	22.5	33.8	45.1	43.2	39.4	46.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	591.3	591.3	591.3	591.3	591.3	591.3	591.3	591.3	591.3	591.3	591.3
2.5°	593.2	595.1	597.0	595.1	593.2	591.3	591.3	589.5	589.5	587.6	583.8
5°	525.6	551.9	578.2	580.1	582.0	582.0	580.1	578.2	574.4	572.6	568.8
7.5°	523.8	514.4	505.0	506.9	508.7	510.6	510.6	505.0	503.1	488.1	473.1
10°	420.5	411.1	401.7	407.4	413.0	433.6	444.9	441.2	437.4	411.1	383.0
12.5°	405.5	401.7	398.0	369.8	341.7	366.1	383.0	381.1	375.5	351.0	326.6
15°	347.3	349.2	349.2	381.1	413.0	433.6	448.7	444.9	441.2	411.1	381.1
17.5°	424.3	403.6	381.1	375.5	369.8	379.2	366.1	345.4	358.6	354.8	351.0
20°	429.9	379.2	326.6	379.2	431.8	444.9	473.1	471.2	465.6	439.3	413.0
22.5°	388.6	418.6	446.8	418.6	390.5	371.7	362.3	358.6	356.7	364.2	369.8
25°	476.8	420.5	362.3	431.8	499.4	514.4	521.9	516.2	514.4	480.6	446.8
27.5°	428.0	458.1	488.1	510.6	533.1	551.9	608.2	553.8	551.9	520.0	486.2
30°	512.5	544.4	576.3	634.5	692.7	724.6	735.9	732.1	722.7	672.1	621.4
32.5°	538.8	602.6	664.6	690.8	715.2	749.0	765.9	764.0	754.7	694.6	632.6
35°	587.6	634.5	681.4	717.1	750.9	782.8	797.8	803.5	792.2	717.1	640.1
37.5°	600.7	660.8	720.9	758.4	796.0	820.4	833.5	850.4	837.3	747.2	655.2
40°	627.0	698.3	767.8	805.3	841.0	863.5	886.1	906.7	889.8	780.9	670.2
42.5°	670.2	743.4	814.7	857.9	899.2	931.1	957.4	985.6	953.7	812.9	670.2
45°	734.0	801.6	869.2	927.4	983.7	1023.1	1060.7	1100.1	1036.3	854.2	670.2
47.5°	814.7	880.4	944.3	1036.3	1128.2	1163.9	1209.0	1246.5	1143.3	906.7	670.2
50°	918.0	991.2	1064.4	1186.4	1306.6	1340.4	1396.7	1424.8	1285.9	987.4	687.1
52.5°	1038.1	1118.9	1197.7	1340.4	1483.0	1539.4	1614.5	1633.2	1430.5	1068.2	704.0
55°	1163.9	1272.8	1379.8	1537.5	1693.3	1747.7	1854.7	1869.8	1616.3	1167.7	717.1
57.5°	1323.5	1451.1	1576.9	1730.8	1882.9	1959.9	2126.9	2132.6	1832.2	1289.7	745.3
60°	1473.7	1633.2	1790.9	1937.3	2083.8	2203.9	2397.3	2399.1	2035.0	1381.7	726.5
62.5°	1652.0	1841.6	2029.3	2155.1	2280.9	2429.2	2662.0	2628.2	2177.6	1392.9	608.2
65°	1862.2	2057.5	2252.7	2359.7	2464.9	2633.8	2885.4	2755.8	2217.1	1329.1	439.3
67.5°	2078.1	2260.2	2442.3	2526.8	2611.3	2825.3	3048.7	2770.8	2158.9	1233.4	306.0
70°	2239.6	2410.4	2581.2	2654.5	2727.7	2958.6	3097.5	2673.2	1995.5	1117.0	238.4
72.5°	2387.9	2549.3	2708.9	2746.4	2782.1	2900.4	2849.7	2356.0	1682.0	940.5	197.1
75°	2564.3	2667.6	2769.0	2701.4	2633.8	2474.2	2187.0	1717.7	1231.5	700.2	169.0
77.5°	2645.1	2620.7	2594.4	2363.5	2132.6	1704.6	1359.1	993.1	625.1	384.8	144.5
80°	2151.3	2053.7	1954.2	1567.5	1180.8	807.2	529.4	336.0	229.0	172.7	116.4
82.5°	1259.6	1032.5	805.3	591.3	377.3	264.7	172.7	137.0	107.0	101.4	93.9
85°	407.4	360.4	313.5	247.8	182.1	112.6	65.7	60.1	56.3	61.9	65.7
87.5°	54.4	54.4	52.6	39.4	24.4	13.1	7.5	5.6	5.6	7.5	7.5
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°	591.3	591.3	591.3	591.3	591.3	591.3	591.3	591.3	591.3	591.3	591.3
2.5°	583.8	582.0	580.1	578.2	576.3	572.6	557.5	542.5	536.9	529.4	523.8
5°	550.0	531.3	518.1	505.0	499.4	491.8	493.7	495.6	497.5	497.5	497.5
7.5°	476.8	480.6	482.5	482.5	488.1	491.8	495.6	497.5	490.0	482.5	473.1
10°	379.2	373.6	381.1	386.7	396.1	403.6	428.0	452.4	474.9	497.5	506.9
12.5°	345.4	364.2	349.2	334.2	364.2	392.3	426.1	459.9	480.6	499.4	482.5
15°	351.0	319.1	322.9	324.8	362.3	398.0	377.3	356.7	414.9	471.2	488.1
17.5°	345.4	339.8	360.4	379.2	343.5	307.9	358.6	407.4	433.6	459.9	452.4
20°	373.6	332.3	332.3	332.3	364.2	396.1	371.7	347.3	375.5	403.6	450.5
22.5°	386.7	401.7	371.7	339.8	360.4	381.1	381.1	379.2	411.1	441.2	433.6
25°	390.5	334.2	360.4	384.8	371.7	356.7	373.6	388.6	398.0	407.4	448.7
27.5°	446.8	407.4	377.3	345.4	369.8	394.2	388.6	383.0	390.5	398.0	407.4
30°	529.4	437.4	403.6	367.9	354.8	339.8	356.7	371.7	399.9	428.0	465.6
32.5°	553.8	473.1	418.6	362.3	360.4	356.7	362.3	366.1	398.0	428.0	480.6
35°	550.0	458.1	405.5	351.0	339.8	328.5	337.9	345.4	392.3	439.3	490.0
37.5°	546.3	435.5	381.1	326.6	319.1	309.7	319.1	328.5	364.2	399.9	446.8
40°	540.7	409.2	356.7	302.2	292.9	283.5	292.9	300.4	328.5	356.7	394.2
42.5°	527.5	383.0	330.4	276.0	268.4	259.1	266.6	274.1	298.5	322.9	345.4
45°	512.5	352.9	302.2	251.6	244.0	236.5	242.2	245.9	268.4	289.1	300.4
47.5°	495.6	321.0	274.1	227.1	219.6	212.1	217.8	221.5	238.4	255.3	259.1
50°	491.8	294.7	251.6	206.5	200.9	193.4	197.1	200.9	214.0	225.3	225.3
52.5°	484.3	262.8	227.1	189.6	185.8	180.2	182.1	184.0	193.4	202.7	200.9
55°	478.7	240.3	208.4	176.5	172.7	167.1	169.0	170.8	180.2	187.7	185.8
57.5°	484.3	221.5	193.4	163.3	159.6	155.8	159.6	163.3	172.7	182.1	182.1
60°	465.6	202.7	176.5	150.2	148.3	144.5	153.9	161.4	176.5	189.6	193.4
62.5°	398.0	185.8	163.3	140.8	142.7	142.7	159.6	174.6	195.2	214.0	217.8
65°	306.0	172.7	153.9	133.3	142.7	152.1	174.6	197.1	215.9	234.7	229.0
67.5°	234.7	163.3	148.3	131.4	152.1	170.8	191.5	212.1	221.5	229.0	219.6
70°	197.1	153.9	142.7	129.5	150.2	170.8	191.5	212.1	215.9	219.6	210.3
72.5°	172.7	146.4	135.2	123.9	140.8	157.7	182.1	204.6	208.4	210.3	200.9
75°	153.9	137.0	123.9	110.8	127.7	142.7	167.1	191.5	195.2	197.1	189.6
77.5°	135.2	125.8	110.8	95.7	112.6	129.5	152.1	174.6	180.2	185.8	176.5
80°	112.6	107.0	95.7	84.5	103.2	120.1	140.8	161.4	167.1	172.7	163.3
82.5°	90.1	86.4	78.8	71.3	90.1	108.9	129.5	148.3	153.9	157.7	146.4
85°	65.7	65.7	61.9	58.2	77.0	93.9	107.0	120.1	118.3	116.4	108.9
87.5°	9.4	9.4	13.1	16.9	22.5	26.3	33.8	39.4	41.3	41.3	31.9
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):

	165°	170°	175°	180°
0°	591.3	591.3	591.3	591.3
2.5°	518.1	518.1	516.2	520.0
5°	497.5	499.4	499.4	501.2
7.5°	463.7	454.3	443.0	444.9
10°	516.2	518.1	520.0	520.0
12.5°	463.7	456.2	446.8	448.7
15°	503.1	508.7	514.4	516.2
17.5°	443.0	441.2	439.3	437.4
20°	495.6	505.0	514.4	514.4
22.5°	426.1	426.1	426.1	428.0
25°	490.0	501.2	510.6	510.6
27.5°	414.9	441.2	467.4	488.1
30°	501.2	506.9	512.5	514.4
32.5°	531.3	559.4	585.7	591.3
35°	538.8	551.9	563.2	568.8
37.5°	493.7	505.0	516.2	523.8
40°	429.9	439.3	448.7	454.3
42.5°	366.1	367.9	369.8	379.2
45°	311.6	302.2	292.9	291.0
47.5°	260.9	247.8	234.7	232.8
50°	223.4	212.1	200.9	200.9
52.5°	197.1	189.6	182.1	182.1
55°	184.0	180.2	174.6	174.6
57.5°	182.1	180.2	178.3	178.3
60°	195.2	197.1	197.1	197.1
62.5°	219.6	221.5	221.5	221.5
65°	221.5	217.8	214.0	214.0
67.5°	210.3	204.6	199.0	195.2
70°	199.0	195.2	189.6	184.0
72.5°	189.6	185.8	180.2	174.6
75°	180.2	174.6	167.1	163.3
77.5°	167.1	163.3	157.7	153.9
80°	152.1	148.3	142.7	135.2
82.5°	135.2	137.0	137.0	118.3
85°	99.5	93.9	86.4	71.3
87.5°	20.6	18.8	15.0	13.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)