

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: McGRAW-EDISON

Report Number: P14207

Luminaire Tested: **GAR-080-LED-E1-3-SPUN-X-5700**

Issue Date: 6/29/2020

Test Information

Test Method: LM-79-08
Report Number: P14207
Test Lab: INNOVATION CENTER-P1
Issue Date: 6/29/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GAR-080-LED-E1-3-SPUN-X-5700
Description: McGRAW-EDISON POST TOP WITH A TYPE III SOLID TOP
PRISMATIC REFRACTOR
Light Source: [6] 5700K LEDS
Ballast/Driver: [2] ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13440.5 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.08' x H: 2.21')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U5 - G5

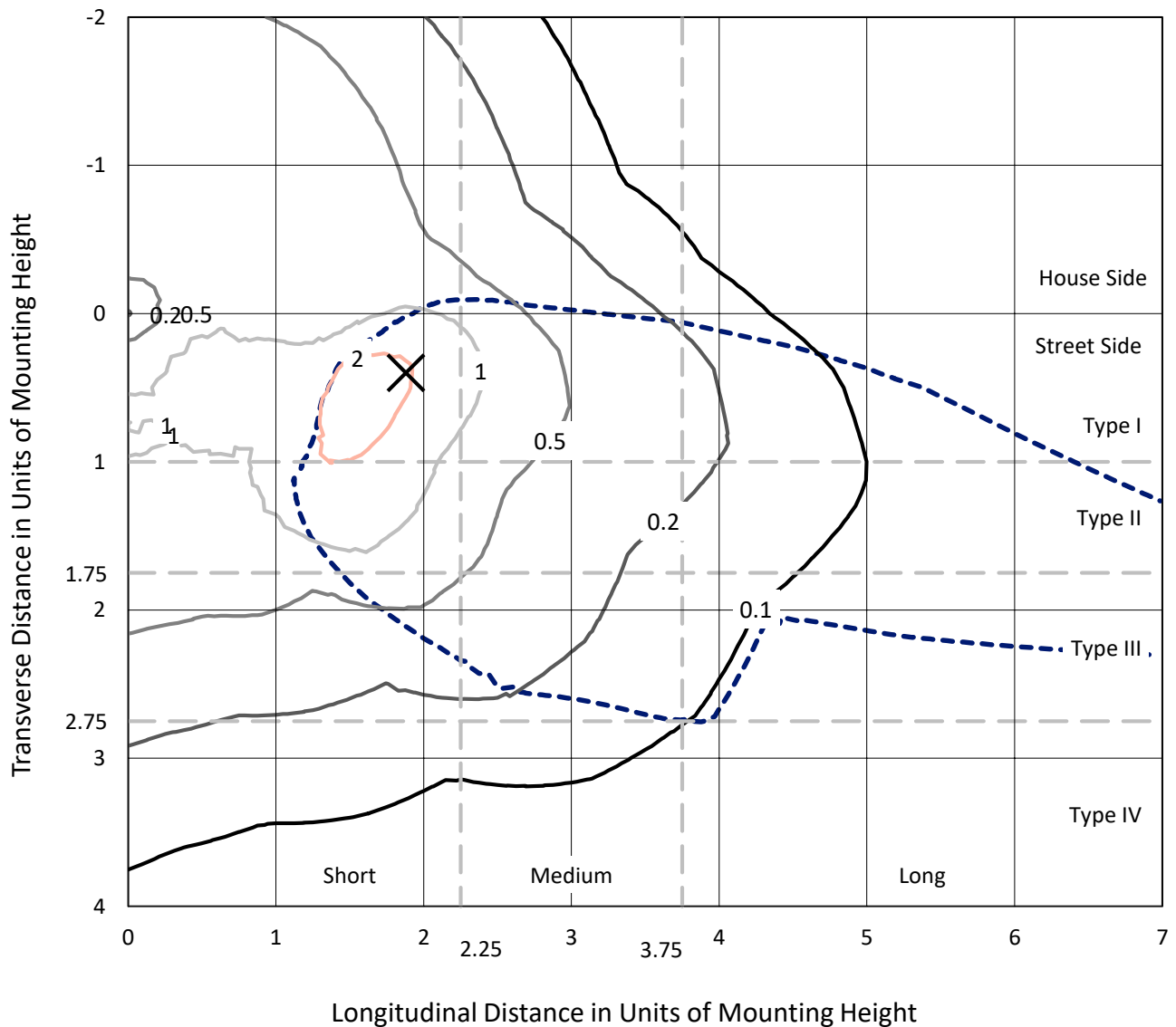
Input Watts (W): 101.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

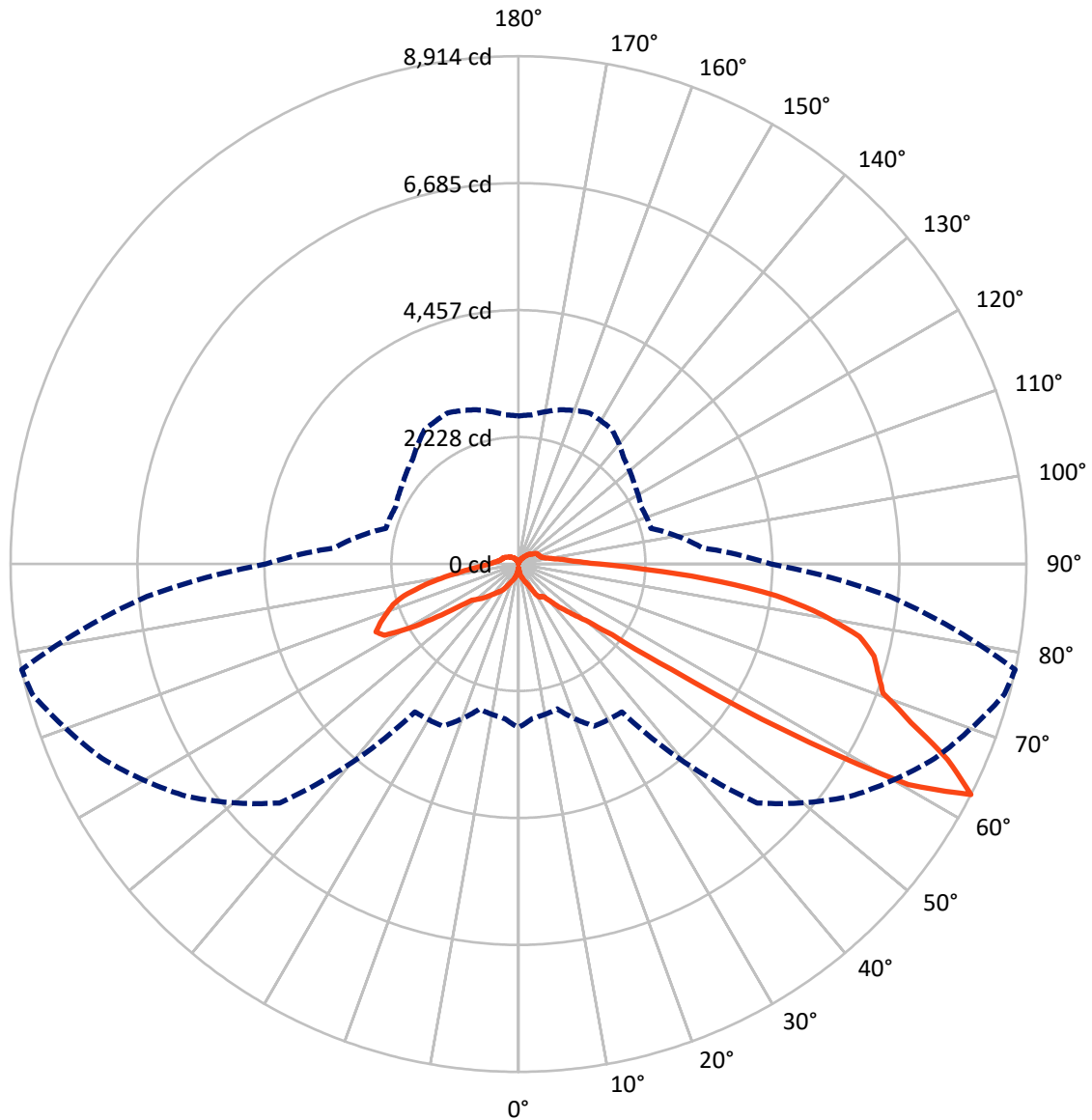


Based on 20 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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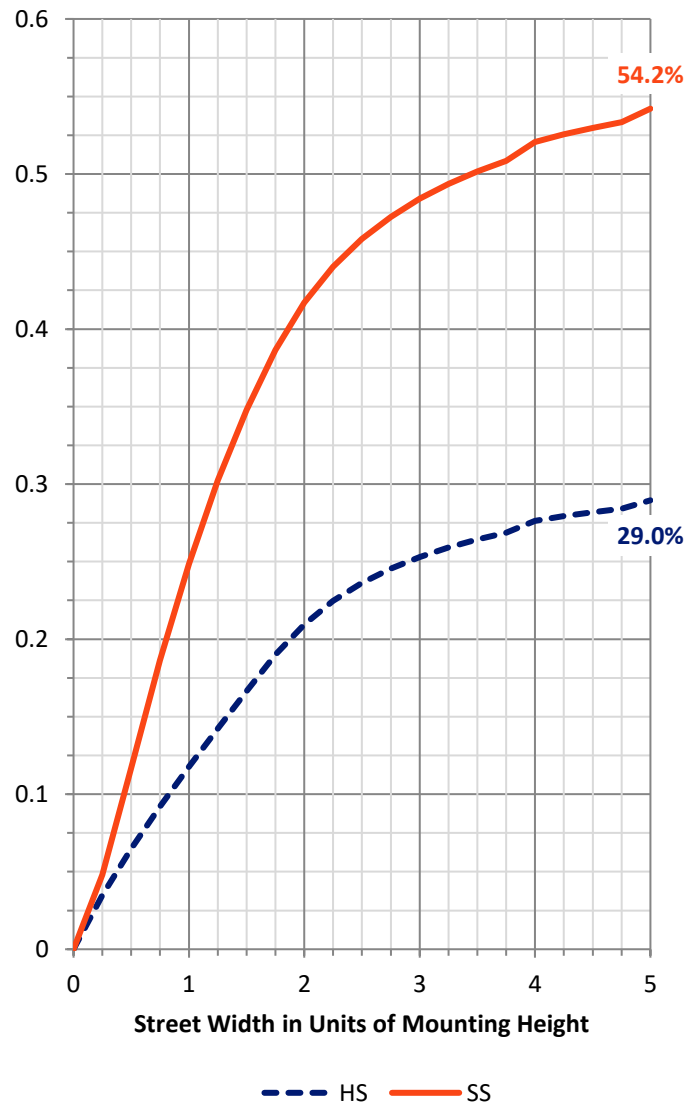
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4094.0	742.8	4836.8
	% Fixture	30.5	5.5	36.0
Street Side	Lumens	7668.2	935.6	8603.7
	% Fixture	57.1	7.0	64.0
Total	Lumens	11762.2	1678.3	13440.5
	% Fixture	87.5	12.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.6	0.1
10°-20°	76.3	0.6
20°-30°	212.5	1.6
30°-40°	453.1	3.4
40°-50°	807.3	6.0
50°-60°	1915.8	14.3
60°-70°	3770.8	28.1
70°-80°	3031.5	22.6
80°-90°	1481.2	11.0
90°-100°	552.1	4.1
100°-110°	358.6	2.7
110°-120°	297.1	2.2
120°-130°	209.5	1.6
130°-140°	135.7	1.0
140°-150°	78.6	0.6
150°-160°	35.5	0.3
160°-170°	10.1	0.1
170°-180°	1.0	0.0
0°-90°	11762.2	87.5
0°-180°	13440.5	100.0



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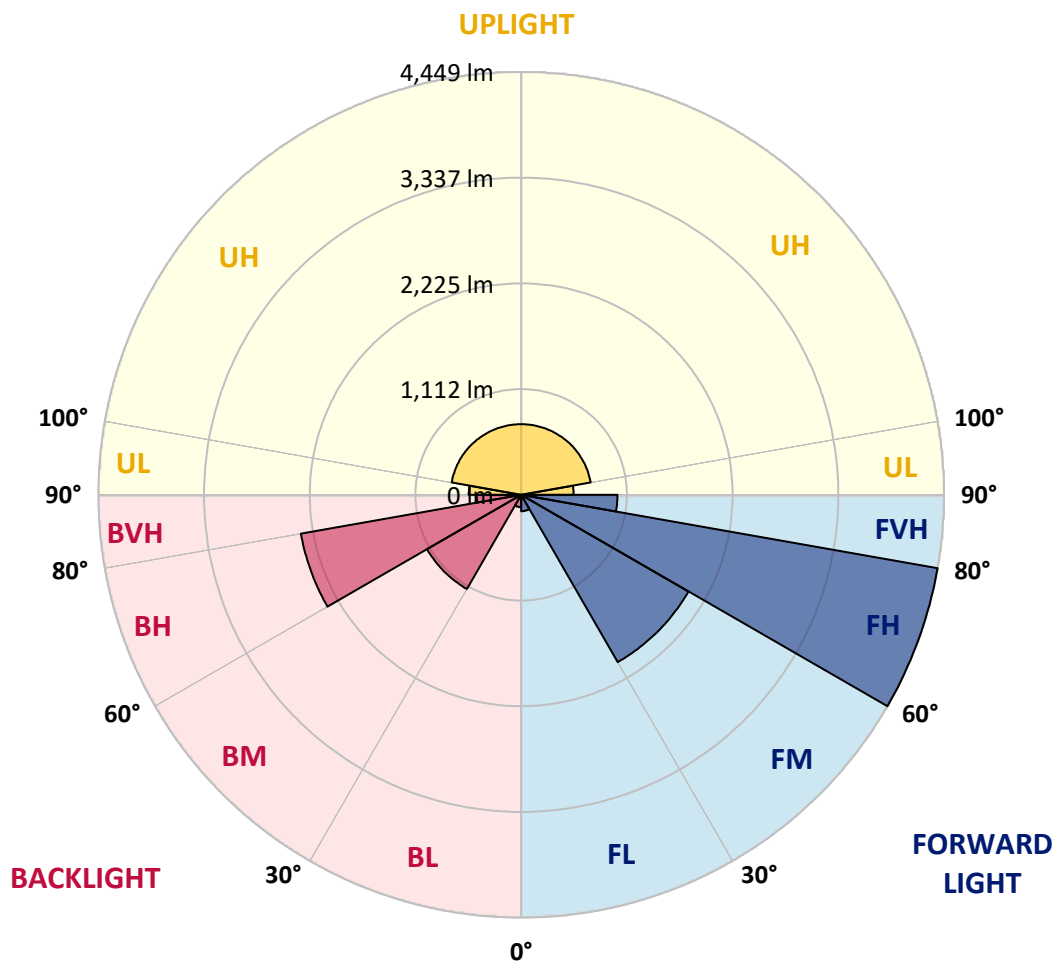
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	172.7	1.3			
FM (30°-60°)	2032.8	15.1			
FH (60°-80°)	4449.4	33.1			G2/5000
FVH (80°-90°)	1013.2	7.5			G5
BL (0°-30°)	129.8	1.0	B1/500		
BM (30°-60°)	1143.4	8.5	B2/2500		
BH (60°-80°)	2352.9	17.5	B3/2500		G3/2500
BVH (80°-90°)	468.0	3.5			G3/500
UL (90°-100°)	552.1	4.1		U4/1000	
UH (100°-180°)	742.8	5.5		U4/1000	

BUG Rating: B3-U5-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
2.5°	88.9	88.9	90.6	88.9	87.3	87.3	85.8	84.1	84.1	82.6	85.8
5°	120.6	120.6	122.3	120.6	120.6	120.6	116.0	112.7	112.7	112.7	117.5
7.5°	168.3	168.3	171.4	166.7	169.9	168.3	168.3	161.9	155.6	155.6	154.0
10°	222.3	220.7	222.3	223.9	219.2	215.9	209.6	206.4	201.6	203.2	196.9
12.5°	257.2	260.5	260.5	260.5	255.7	249.2	239.8	236.6	230.3	228.6	228.6
15°	290.5	292.2	290.5	293.7	292.2	279.4	273.1	265.2	260.5	257.2	255.7
17.5°	328.7	335.0	328.7	333.5	338.2	341.3	344.6	315.9	297.0	292.2	292.2
20°	358.9	357.2	363.7	373.2	398.5	395.4	376.3	365.2	343.0	338.2	333.5
22.5°	412.8	409.7	409.7	420.8	469.9	506.5	462.1	411.3	373.2	366.7	358.9
25°	449.3	441.4	454.1	493.8	525.5	562.1	511.2	458.9	416.0	414.5	409.7
27.5°	554.2	552.5	541.4	584.4	706.5	773.2	735.2	654.2	527.1	506.5	460.4
30°	706.5	701.8	670.0	713.0	847.9	993.9	1109.9	919.4	681.1	636.7	541.4
32.5°	765.4	763.7	739.9	774.9	909.8	1060.6	1235.3	981.3	730.4	697.0	624.0
35°	771.7	757.4	744.7	792.3	835.1	967.0	1173.4	935.2	717.6	695.4	670.0
37.5°	765.4	763.7	773.2	851.0	928.9	974.9	1143.2	995.5	758.9	730.4	706.5
40°	925.7	916.2	870.1	897.1	1016.1	1062.2	1330.6	1338.5	924.2	847.9	739.9
42.5°	1044.8	1044.8	997.2	1035.2	1213.1	1254.4	1508.4	1681.5	1119.5	1013.0	844.7
45°	1109.9	1119.5	1073.4	1119.5	1333.7	1338.5	1500.5	1935.5	1305.2	1157.5	941.6
47.5°	1192.5	1184.5	1128.9	1187.7	1470.3	1533.8	1630.7	2364.2	1586.2	1356.0	1057.5
50°	1108.2	1097.1	1097.1	1138.4	1373.5	1481.4	1519.5	2143.6	1819.7	1581.4	1192.5
52.5°	1124.1	1159.1	1190.8	1333.7	1599.0	1897.5	1887.9	2467.5	2403.9	2062.6	1438.6
55°	1465.6	1500.5	1467.1	1652.9	1964.2	2843.8	3023.2	4026.7	3866.3	3258.2	1975.2
57.5°	2091.1	2116.5	1964.2	2180.1	2338.9	4314.0	5092.1	6705.3	6508.4	5528.7	3043.9
60°	2619.9	2537.3	2402.4	2720.0	2813.6	5265.1	6581.5	7942.3	8445.5	7864.4	4714.2
62.5°	2872.3	2724.7	2634.2	3140.6	3167.7	5930.5	7110.2	8067.7	8833.0	8913.9	6544.9
65°	2704.1	2548.4	2492.8	3013.7	3050.2	6229.0	6926.0	7059.4	8016.8	8275.6	7176.9
67.5°	2478.6	2343.5	2281.6	2769.1	2902.5	6070.2	6699.0	6140.0	7264.2	7432.5	6724.4
70°	2377.0	2216.6	2121.3	2483.4	2723.1	5360.5	6057.5	5373.1	6602.1	6789.4	6001.9
72.5°	2292.8	2127.6	2037.2	2362.6	2597.7	4669.8	5363.6	4888.8	6319.5	6605.3	5814.5
75°	2343.5	2134.0	2010.2	2319.8	2486.5	4282.3	4906.4	4666.6	6087.6	6446.5	5679.6
77.5°	2276.8	2057.8	1879.9	2156.2	2207.1	3721.8	4572.9	4498.2	5879.7	6122.6	5111.1
80°	2032.4	1854.5	1668.7	1913.3	1827.5	3021.6	3934.6	4072.8	5331.8	5409.6	4134.7
82.5°	1698.9	1592.6	1397.3	1603.7	1471.9	2281.6	3255.1	3563.0	4687.2	4561.8	3078.7
85°	1178.2	1160.7	1028.9	1205.1	1103.5	1571.9	2148.4	2561.2	3499.5	3296.3	1989.6
87.5°	782.8	790.8	724.1	827.3	803.4	1055.9	1265.5	1525.9	2207.1	2040.4	1286.1
90°	601.8	593.8	562.1	628.7	651.1	825.6	930.5	984.4	1322.6	1267.0	943.1
92.5°	527.1	516.0	489.0	539.9	563.7	705.0	786.0	770.1	979.6	962.2	751.0
95°	482.7	471.6	451.0	495.4	500.1	614.4	695.4	663.7	806.6	800.3	649.4
97.5°	431.9	422.3	403.3	436.7	439.8	538.3	598.6	565.3	643.1	641.5	535.1
100°	390.6	385.8	368.4	393.8	395.4	473.2	527.1	490.6	544.6	551.0	477.9
102.5°	352.6	349.3	336.6	355.7	357.2	414.5	460.4	422.3	469.9	476.4	425.6
105°	327.1	320.7	311.1	331.8	333.5	384.3	416.0	377.8	428.7	438.2	393.8
107.5°	303.3	300.1	298.5	323.9	319.1	360.4	379.5	347.8	395.4	406.5	373.2
110°	285.9	282.6	284.2	303.3	303.3	347.8	360.4	343.0	389.1	395.4	370.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
112.5°	273.1	271.5	268.3	285.9	287.4	350.9	360.4	349.3	390.6	398.5	370.0
115°	268.3	262.0	254.0	269.9	263.5	333.5	339.8	335.0	371.5	376.3	346.1
117.5°	252.5	250.9	247.7	255.7	258.8	325.5	331.8	331.8	368.4	376.3	347.8
120°	235.0	236.6	235.0	249.2	246.1	309.6	312.8	317.6	354.1	365.2	339.8
122.5°	222.3	220.7	219.2	228.6	231.8	284.2	287.4	298.5	330.2	335.0	311.1
125°	204.9	203.2	203.2	206.4	219.2	262.0	263.5	271.5	298.5	301.7	277.9
127.5°	195.3	193.8	193.8	200.1	209.6	249.2	250.9	254.0	274.6	279.4	265.2
130°	185.8	184.2	182.5	187.3	201.6	239.8	238.1	244.6	263.5	268.3	247.7
132.5°	173.1	173.1	169.9	177.9	192.1	225.5	220.7	228.6	247.7	244.6	227.0
135°	160.3	161.9	160.3	163.6	176.2	201.6	201.6	206.4	222.3	217.5	203.2
137.5°	146.0	144.5	144.5	146.0	157.3	177.9	181.0	185.8	190.5	185.8	176.2
140°	142.9	146.0	141.3	142.9	152.5	169.9	173.1	177.9	176.2	173.1	161.9
142.5°	136.6	133.4	128.6	130.2	141.3	157.3	161.9	161.9	155.6	150.8	142.9
145°	119.1	119.1	117.5	120.6	133.4	142.9	149.3	146.0	136.6	131.8	128.6
147.5°	108.0	104.7	104.7	112.7	122.3	133.4	133.4	128.6	119.1	117.5	114.3
150°	96.9	96.9	95.3	103.2	112.7	119.1	119.1	117.5	108.0	103.2	100.0
152.5°	85.8	87.3	87.3	96.9	101.7	111.2	104.7	98.4	92.1	87.3	84.1
155°	74.7	71.5	73.0	81.0	87.3	85.8	84.1	77.8	73.0	71.5	71.5
157.5°	68.2	65.1	68.2	74.7	77.8	77.8	73.0	68.2	63.5	61.9	65.1
160°	55.6	57.1	58.7	63.5	65.1	63.5	61.9	57.1	52.4	53.9	53.9
162.5°	46.1	47.6	47.6	50.8	52.4	49.3	47.6	42.8	41.3	44.5	41.3
165°	36.5	38.1	38.1	39.7	41.3	36.5	33.3	30.2	31.7	30.2	31.7
167.5°	27.0	27.0	28.6	28.6	28.6	25.4	20.6	22.2	22.2	20.6	22.2
170°	17.4	19.1	19.1	17.4	17.4	14.3	12.6	11.1	12.6	11.1	12.6
172.5°	12.6	11.1	12.6	11.1	11.1	9.5	9.5	9.5	8.0	8.0	8.0
175°	14.3	12.6	11.1	12.6	11.1	11.1	8.0	8.0	8.0	9.5	8.0
177.5°	12.6	9.5	11.1	11.1	9.5	8.0	8.0	6.3	6.3	8.0	8.0
180°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
2.5°	82.6	85.8	84.1	84.1	84.1	81.0	82.6	84.1	82.6	81.0	85.8
5°	112.7	116.0	114.3	114.3	114.3	111.2	109.5	108.0	108.0	109.5	108.0
7.5°	152.5	150.8	149.3	146.0	144.5	142.9	141.3	141.3	139.7	139.7	142.9
10°	195.3	190.5	189.0	184.2	181.0	179.4	177.9	177.9	177.9	179.4	174.7
12.5°	223.9	219.2	217.5	212.7	207.9	204.9	203.2	203.2	203.2	204.9	206.4
15°	254.0	252.5	247.7	241.4	235.0	235.0	231.8	231.8	235.0	236.6	233.4
17.5°	285.9	284.2	279.4	271.5	268.3	265.2	265.2	263.5	266.8	269.9	269.9
20°	320.7	311.1	304.8	300.1	297.0	292.2	293.7	292.2	297.0	298.5	297.0
22.5°	355.7	350.9	341.3	335.0	333.5	323.9	323.9	325.5	328.7	331.8	333.5
25°	395.4	384.3	374.7	368.4	357.2	355.7	358.9	358.9	365.2	365.2	362.0
27.5°	443.0	438.2	431.9	423.9	414.5	411.3	409.7	414.5	417.6	416.0	416.0
30°	501.8	495.4	498.6	493.8	487.5	469.9	465.2	471.6	479.5	484.3	482.7
32.5°	576.4	565.3	544.6	535.1	522.4	517.7	514.5	519.2	528.8	538.3	538.3
35°	627.2	609.7	582.7	546.2	531.9	531.9	543.1	551.0	559.0	557.3	560.5
37.5°	673.3	660.5	620.9	573.1	563.7	573.1	595.5	606.6	605.0	589.0	584.4
40°	720.9	711.3	670.0	635.1	633.5	635.1	639.8	655.7	665.3	670.0	670.0
42.5°	792.3	778.0	724.1	698.7	698.7	690.7	698.7	716.1	741.5	760.6	762.1
45°	879.7	863.8	784.3	739.9	739.9	739.9	765.4	792.3	808.2	803.4	800.3
47.5°	976.5	955.9	857.5	819.3	825.6	808.2	833.6	857.5	894.0	900.3	905.1
50°	1068.6	1035.2	914.6	854.2	844.7	854.2	895.5	922.5	930.5	925.7	927.3
52.5°	1230.5	1152.7	978.1	930.5	938.3	974.9	1027.4	1049.5	1046.3	1024.1	1022.6
55°	1575.1	1398.9	1221.0	1224.2	1254.4	1306.8	1368.7	1387.8	1416.3	1392.6	1411.5
57.5°	2191.2	1853.0	1637.0	1730.7	1768.8	1771.9	1816.4	1870.5	1968.9	2016.5	2033.9
60°	3177.1	2511.9	2081.7	2157.8	2205.5	2235.6	2381.7	2475.4	2481.7	2430.9	2430.9
62.5°	4431.5	3242.3	2410.2	2377.0	2476.9	2618.3	2872.3	2929.5	2802.5	2626.2	2597.7
65°	5131.7	3601.2	2415.0	2396.0	2581.8	2754.8	2977.2	2929.5	2777.1	2621.4	2600.8
67.5°	5062.0	3540.8	2234.0	2272.2	2478.6	2584.9	2705.6	2634.2	2578.6	2454.7	2465.8
70°	4663.4	3342.4	2091.1	2095.9	2181.6	2235.6	2351.5	2337.2	2367.4	2232.5	2240.3
72.5°	4399.8	3124.8	1972.0	1926.0	1934.0	2008.5	2164.2	2203.8	2243.6	2097.5	2094.3
75°	4115.6	2794.5	1775.2	1718.0	1748.2	1808.5	1945.1	1995.9	2057.8	1938.7	1938.7
77.5°	3396.3	2221.4	1519.5	1541.8	1586.2	1591.0	1641.8	1710.0	1795.8	1730.7	1725.9
80°	2546.8	1667.2	1255.9	1317.9	1370.2	1303.5	1298.8	1351.3	1448.0	1436.9	1444.9
82.5°	1791.0	1179.7	986.1	1067.0	1125.8	1038.4	1008.3	1022.6	1097.1	1109.9	1116.2
85°	1197.2	862.2	754.3	786.0	811.4	763.7	751.0	754.3	773.2	758.9	760.6
87.5°	887.5	678.0	601.8	606.6	600.2	576.4	577.9	582.7	581.1	562.1	559.0
90°	685.9	546.2	514.5	514.5	500.1	487.5	489.0	497.0	495.4	484.3	485.8
92.5°	570.1	468.4	460.4	457.3	439.8	433.4	443.0	449.3	446.2	436.7	431.9
95°	511.2	431.9	419.1	409.7	393.8	390.6	396.9	401.7	401.7	392.2	392.2
97.5°	441.4	382.6	373.2	362.0	341.3	341.3	346.1	347.8	349.3	344.6	339.8
100°	393.8	350.9	347.8	331.8	317.6	317.6	322.4	325.5	325.5	317.6	315.9
102.5°	363.7	327.1	325.5	311.1	300.1	298.5	303.3	306.5	303.3	298.5	303.3
105°	344.6	311.1	309.6	298.5	290.5	289.0	293.7	295.3	295.3	287.4	285.9
107.5°	331.8	303.3	295.3	290.5	281.1	281.1	290.5	292.2	292.2	281.1	281.1
110°	325.5	297.0	287.4	285.9	285.9	287.4	298.5	304.8	308.1	297.0	298.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	328.7	297.0	284.2	292.2	297.0	306.5	319.1	327.1	331.8	320.7	319.1
115°	306.5	271.5	263.5	273.1	292.2	300.1	309.6	308.1	311.1	303.3	303.3
117.5°	300.1	266.8	254.0	263.5	277.9	277.9	281.1	277.9	279.4	271.5	271.5
120°	289.0	262.0	236.6	242.9	246.1	247.7	247.7	246.1	246.1	239.8	236.6
122.5°	274.6	247.7	225.5	230.3	230.3	228.6	230.3	228.6	228.6	222.3	219.2
125°	254.0	230.3	209.6	214.4	214.4	211.2	209.6	209.6	209.6	206.4	209.6
127.5°	241.4	219.2	198.5	196.9	200.1	200.1	200.1	198.5	196.9	195.3	195.3
130°	230.3	209.6	187.3	187.3	185.8	187.3	185.8	184.2	184.2	182.5	182.5
132.5°	214.4	196.9	173.1	173.1	173.1	171.4	171.4	169.9	168.3	168.3	166.7
135°	196.9	181.0	161.9	160.3	161.9	160.3	158.8	157.3	157.3	155.6	157.3
137.5°	168.3	160.3	146.0	141.3	139.7	141.3	139.7	138.2	139.7	136.6	136.6
140°	160.3	152.5	142.9	136.6	134.9	134.9	133.4	136.6	134.9	136.6	136.6
142.5°	141.3	141.3	131.8	127.1	127.1	128.6	122.3	122.3	122.3	122.3	122.3
145°	131.8	131.8	125.4	117.5	116.0	112.7	111.2	111.2	111.2	109.5	114.3
147.5°	116.0	117.5	114.3	108.0	101.7	98.4	98.4	96.9	96.9	98.4	96.9
150°	103.2	104.7	101.7	95.3	90.6	87.3	87.3	84.1	85.8	84.1	85.8
152.5°	87.3	88.9	87.3	82.6	81.0	77.8	76.2	74.7	76.2	73.0	73.0
155°	69.9	71.5	73.0	69.9	65.1	61.9	60.4	60.4	61.9	60.4	60.4
157.5°	63.5	63.5	65.1	63.5	60.4	57.1	58.7	57.1	55.6	57.1	57.1
160°	53.9	52.4	55.6	53.9	52.4	49.3	52.4	49.3	47.6	46.1	49.3
162.5°	42.8	41.3	42.8	42.8	42.8	41.3	39.7	38.1	38.1	36.5	35.0
165°	31.7	31.7	33.3	33.3	33.3	31.7	30.2	28.6	30.2	30.2	28.6
167.5°	20.6	22.2	22.2	22.2	22.2	20.6	22.2	19.1	20.6	19.1	19.1
170°	12.6	12.6	14.3	14.3	14.3	12.6	12.6	11.1	11.1	11.1	11.1
172.5°	8.0	8.0	11.1	12.6	11.1	9.5	8.0	6.3	8.0	8.0	9.5
175°	9.5	11.1	12.6	11.1	12.6	11.1	8.0	8.0	8.0	8.0	9.5
177.5°	6.3	9.5	8.0	9.5	11.1	9.5	8.0	6.3	8.0	6.3	6.3
180°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5

(END OF REPORT)