

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: P14206

Luminaire Tested: **GAR-080-LED-E1-3-GLOW-CAGE-5700**

Issue Date: 6/29/2020

Test Information

Test Method: LM-79-08
Report Number: P14206
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-GLOW-CAGE-5700
Description: McGRAW-EDISON POST TOP WITH A TYPE III PRISMATIC REFRACTOR WITH ARCHITECTURAL CAGE
Light Source: [6] 5700K LEDS
Ballast/Driver: [2] ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12344.3 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.08' x H: 2.21')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U5 - G4

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

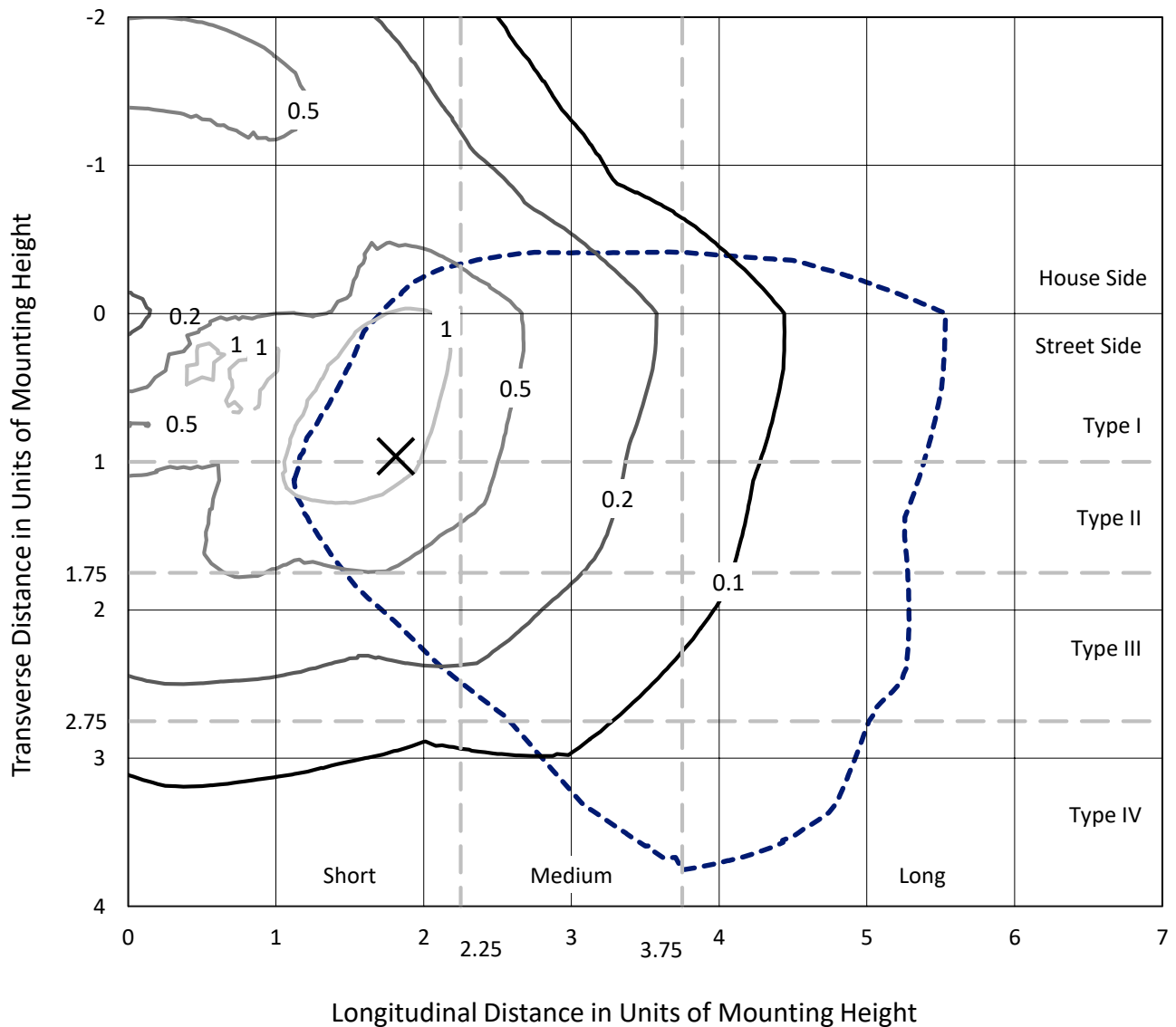


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Iso-Footcandle Lines of Horizontal Illumination

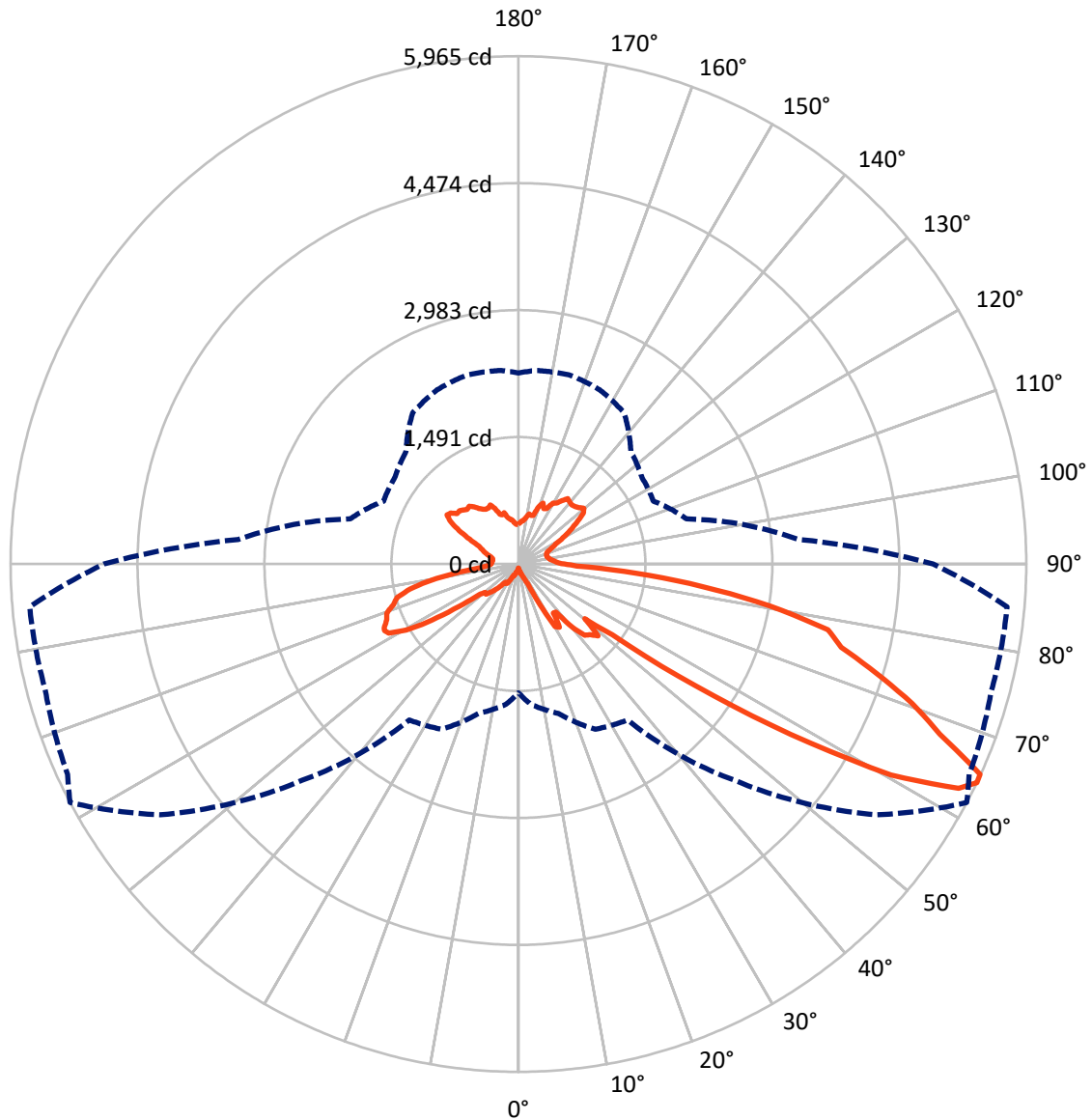
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical



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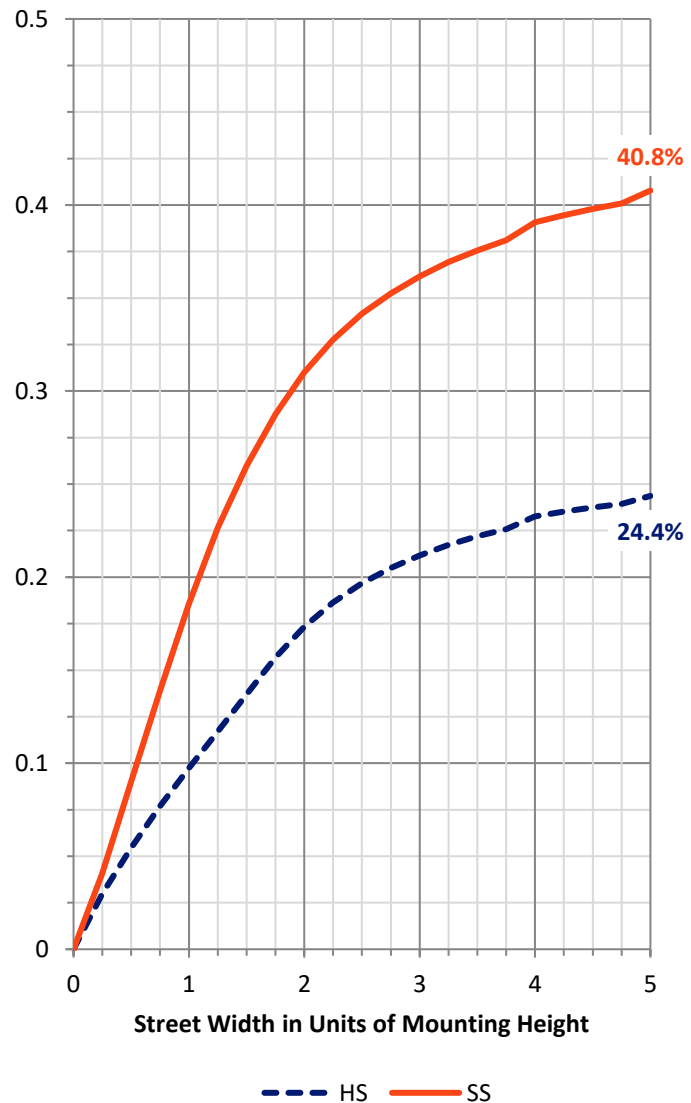
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3117.1	1985.6	5102.7
	% Fixture	25.3	16.1	41.3
Street Side	Lumens	5260.2	1981.4	7241.6
	% Fixture	42.6	16.1	58.7
Total	Lumens	8377.3	3967.0	12344.3
	% Fixture	67.9	32.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	0.1
10°-20°	34.2	0.3
20°-30°	111.9	0.9
30°-40°	269.3	2.2
40°-50°	533.1	4.3
50°-60°	1281.7	10.4
60°-70°	2804.3	22.7
70°-80°	2393.6	19.4
80°-90°	941.9	7.6
90°-100°	378.9	3.1
100°-110°	373.8	3.0
110°-120°	541.4	4.4
120°-130°	808.7	6.6
130°-140°	753.5	6.1
140°-150°	549.9	4.5
150°-160°	340.1	2.8
160°-170°	171.7	1.4
170°-180°	48.8	0.4
0°-90°	8377.3	67.9
0°-180°	12344.3	100.0



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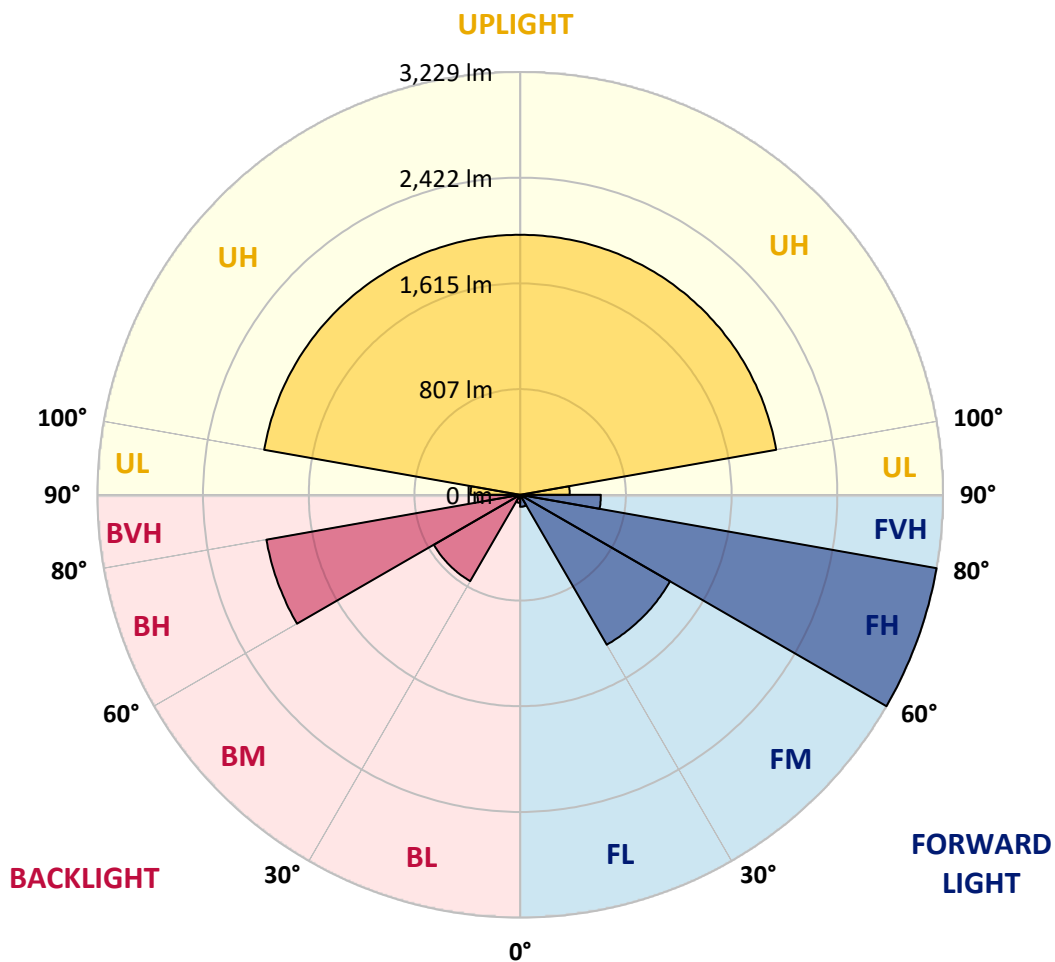
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	92.2	0.7			
FM	(30°-60°)	1322.3	10.7			
FH	(60°-80°)	3229.4	26.2			G2/5000
FVH	(80°-90°)	616.3	5.0			G4/750
BL	(0°-30°)	61.3	0.5	B0/110		
BM	(30°-60°)	761.8	6.2	B1/1000		
BH	(60°-80°)	1968.5	15.9	B3/2500		G3/2500
BVH	(80°-90°)	325.6	2.6			G3/500
UL	(90°-100°)	378.9	3.1		U3/500	
UH	(100°-180°)	1985.6	16.1		U5	

BUG Rating: B3-U5-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
2.5°	58.7	57.1	61.9	58.7	57.1	55.6	57.1	57.1	55.6	57.1	58.7
5°	69.9	69.9	69.9	69.9	66.7	66.7	66.7	66.7	68.2	69.9	74.7
7.5°	79.3	77.8	79.3	81.0	79.3	81.0	79.3	81.0	77.8	76.2	79.3
10°	96.9	96.9	96.9	98.4	100.0	100.0	98.4	95.3	95.3	95.3	93.7
12.5°	106.4	104.7	109.5	114.3	112.7	109.5	108.0	104.7	106.4	104.7	103.2
15°	119.1	119.1	122.3	123.8	130.2	128.6	122.3	122.3	120.6	117.5	116.0
17.5°	128.6	130.2	133.4	141.3	150.8	152.5	144.5	139.7	136.6	131.8	125.4
20°	142.9	144.5	144.5	155.6	177.9	190.5	184.2	169.9	163.6	152.5	141.3
22.5°	166.7	165.1	165.1	181.0	207.9	238.1	219.2	195.3	192.1	173.1	165.1
25°	190.5	192.1	198.5	225.5	281.1	295.3	269.9	266.8	255.7	207.9	171.4
27.5°	303.3	303.3	295.3	352.6	462.1	528.8	566.8	543.1	497.0	325.5	225.5
30°	417.6	417.6	387.4	428.7	601.8	681.1	814.5	852.7	773.2	454.1	306.5
32.5°	419.1	427.1	411.3	476.4	620.9	692.3	797.1	887.5	832.0	519.2	379.5
35°	392.2	381.1	366.7	414.5	504.9	549.4	622.4	706.5	706.5	495.4	382.6
37.5°	377.8	384.3	400.2	506.5	647.8	606.6	620.9	716.1	776.5	571.6	411.3
40°	552.5	543.1	492.3	557.3	724.1	811.4	903.5	978.1	1019.4	786.0	471.6
42.5°	666.9	665.3	585.9	643.1	892.3	1001.9	1057.5	1143.2	1216.2	1068.6	576.4
45°	689.1	692.3	622.4	682.8	914.6	1132.1	1213.1	1184.5	1224.2	1260.7	708.2
47.5°	687.6	698.7	643.1	713.0	924.2	1157.5	1303.5	1260.7	1278.1	1324.2	833.6
50°	539.9	546.2	577.9	628.7	787.5	952.7	1071.7	1009.8	998.7	1097.1	919.4
52.5°	498.6	539.9	630.4	830.4	1009.8	1103.5	1449.7	1381.3	1408.4	1354.4	1078.2
55°	658.9	733.6	865.3	1109.9	1294.0	1884.7	2450.0	2521.4	2575.5	2270.5	1579.9
57.5°	973.3	1048.0	1171.8	1416.3	1643.3	2926.4	3928.2	3775.8	3561.4	3317.0	2743.7
60°	1343.3	1403.6	1524.3	1827.5	2084.8	3404.3	5093.7	5028.5	4571.2	4696.8	4310.9
62.5°	1579.9	1656.1	1771.9	2151.5	2322.9	3428.0	5312.7	5803.5	5500.2	5611.4	5498.6
64°	1511.6	1652.9	1816.4	2140.4	2235.6	3593.2	5135.0	5965.3	5843.2	5751.1	5762.2
65°	1548.1	1648.1	1791.0	2110.2	2251.6	3666.3	5090.5	5959.0	5801.9	5682.7	5728.8
67.5°	1476.7	1595.7	1718.0	1999.0	2184.9	3790.1	4476.0	5336.6	5223.9	5033.3	5166.7
70°	1402.0	1519.5	1610.0	1816.4	2095.9	3569.4	4150.6	4906.4	4769.8	4466.5	4607.8
72.5°	1397.3	1522.7	1599.0	1759.3	2033.9	3464.6	3894.9	4399.8	4369.6	4022.0	4231.5
75°	1302.0	1400.4	1497.3	1614.8	1919.6	3205.8	3499.5	3917.1	3974.2	3758.3	4044.2
77.5°	1287.7	1383.0	1475.1	1625.9	1878.4	3267.7	3540.8	3718.7	3807.6	3594.8	3777.4
80°	1130.6	1216.2	1313.1	1513.2	1673.5	2869.2	3058.1	2994.6	3056.5	2845.4	2886.6
82.5°	828.8	898.7	993.9	1165.4	1241.6	2119.7	2291.2	2184.9	2159.5	1975.2	1868.8
85°	522.4	577.9	639.8	814.5	825.6	1286.1	1441.7	1381.3	1329.0	1125.8	946.3
87.5°	328.7	349.3	393.8	485.8	485.8	670.0	697.0	684.3	673.3	603.3	605.0
90°	281.1	292.2	319.1	363.7	366.7	484.3	498.6	503.4	524.0	503.4	530.3
92.5°	284.2	292.2	311.1	344.6	346.1	433.4	443.0	444.5	462.1	447.8	479.5
95°	281.1	289.0	311.1	338.2	336.6	395.4	401.7	412.8	425.6	400.2	428.7
97.5°	279.4	285.9	301.7	325.5	325.5	374.7	373.2	379.5	393.8	370.0	398.5
100°	298.5	300.1	320.7	343.0	333.5	371.5	360.4	365.2	370.0	357.2	381.1
102.5°	308.1	306.5	325.5	354.1	339.8	357.2	343.0	350.9	358.9	343.0	362.0
105°	309.6	309.6	331.8	365.2	350.9	350.9	341.3	346.1	350.9	344.6	371.5
107.5°	323.9	325.5	346.1	379.5	365.2	355.7	339.8	346.1	347.8	350.9	395.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
110°	344.6	344.6	366.7	401.7	392.2	374.7	349.3	350.9	354.1	368.4	422.3
112.5°	365.2	363.7	400.2	443.0	435.1	404.9	374.7	374.7	381.1	400.2	457.3
115°	400.2	395.4	431.9	504.9	504.9	454.1	420.8	425.6	436.7	441.4	508.1
117.5°	527.1	500.1	533.5	619.2	614.4	560.5	504.9	493.8	498.6	524.0	617.7
120°	598.6	573.1	630.4	698.7	700.2	670.0	617.7	606.6	606.6	643.1	728.8
122.5°	609.7	619.2	697.0	765.4	793.9	758.9	731.9	722.4	733.6	795.5	860.6
125°	701.8	700.2	768.5	887.5	909.8	881.2	844.7	841.6	862.2	927.3	957.4
127.5°	854.2	847.9	889.2	1005.0	1020.9	992.4	973.3	967.0	987.6	1044.8	1073.4
130°	992.4	986.1	1017.8	1063.9	1078.2	1054.3	1036.9	1009.8	1011.5	1078.2	1132.1
132.5°	1036.9	1041.5	1063.9	1086.1	1089.3	1059.1	997.2	971.8	974.9	1003.5	1060.6
135°	989.2	992.4	1017.8	1062.2	1082.8	1027.4	955.9	946.3	954.2	970.2	1025.7
137.5°	930.5	941.6	984.4	1020.9	1048.0	1006.7	960.7	935.2	949.6	992.4	1006.7
140°	955.9	962.2	997.2	1011.5	1030.5	998.7	957.4	944.8	951.1	960.7	957.4
142.5°	947.9	960.7	968.5	971.8	973.3	951.1	944.8	962.2	973.3	973.3	979.6
145°	979.6	967.0	957.4	943.1	959.0	943.1	914.6	901.8	905.1	925.7	932.0
147.5°	903.5	900.3	914.6	903.5	898.7	890.7	874.9	843.1	847.9	873.3	866.9
150°	808.2	806.6	793.9	790.8	768.5	789.1	805.0	822.5	827.3	816.2	814.5
152.5°	744.7	747.8	770.1	787.5	809.7	803.4	774.9	728.8	713.0	728.8	739.9
155°	727.2	730.4	727.2	766.9	768.5	739.9	716.1	716.1	708.2	724.1	703.4
157.5°	717.6	719.3	700.2	716.1	716.1	725.6	766.9	771.7	760.6	724.1	720.9
160°	730.4	731.9	716.1	692.3	689.1	690.7	706.5	713.0	709.8	668.5	678.0
162.5°	660.5	657.4	638.3	641.5	646.3	620.9	597.0	598.6	597.0	573.1	582.7
165°	543.1	544.6	568.4	587.5	603.3	601.8	592.2	589.0	597.0	568.4	562.1
167.5°	597.0	595.5	593.8	593.8	601.8	606.6	601.8	603.3	605.0	608.1	603.3
170°	576.4	577.9	581.1	570.1	562.1	557.3	552.5	555.7	552.5	555.7	555.7
172.5°	517.7	517.7	522.4	527.1	530.3	525.5	520.8	519.2	514.5	511.2	508.1
175°	506.5	504.9	506.5	508.1	508.1	504.9	506.5	506.5	508.1	503.4	500.1
177.5°	497.0	497.0	493.8	493.8	492.3	487.5	485.8	482.7	481.0	481.0	476.4
180°	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
2.5°	60.4	57.1	61.9	61.9	61.9	58.7	55.6	60.4	58.7	60.4	57.1
5°	74.7	71.5	71.5	71.5	69.9	74.7	69.9	69.9	69.9	73.0	74.7
7.5°	77.8	79.3	81.0	81.0	82.6	79.3	79.3	77.8	77.8	77.8	79.3
10°	93.7	95.3	93.7	92.1	93.7	93.7	93.7	92.1	92.1	92.1	90.6
12.5°	103.2	101.7	100.0	100.0	98.4	96.9	98.4	100.0	100.0	106.4	103.2
15°	117.5	114.3	111.2	108.0	109.5	111.2	111.2	109.5	114.3	112.7	114.3
17.5°	123.8	122.3	122.3	120.6	120.6	119.1	119.1	120.6	122.3	122.3	123.8
20°	136.6	136.6	133.4	131.8	133.4	130.2	130.2	131.8	131.8	133.4	133.4
22.5°	150.8	144.5	144.5	146.0	144.5	144.5	141.3	142.9	142.9	146.0	146.0
25°	168.3	161.9	157.3	158.8	165.1	160.3	163.6	161.9	165.1	163.6	160.3
27.5°	207.9	193.8	193.8	203.2	214.4	206.4	200.1	200.1	209.6	217.5	219.2
30°	254.0	241.4	236.6	249.2	263.5	252.5	242.9	246.1	260.5	271.5	274.6
32.5°	304.8	287.4	273.1	268.3	273.1	268.3	269.9	281.1	290.5	293.7	298.5
35°	323.9	306.5	279.4	260.5	250.9	249.2	269.9	289.0	290.5	279.4	282.6
37.5°	365.2	336.6	298.5	281.1	290.5	301.7	325.5	344.6	335.0	320.7	322.4
40°	396.9	373.2	346.1	343.0	354.1	371.5	382.6	385.8	400.2	412.8	422.3
42.5°	469.9	451.0	409.7	406.5	422.3	436.7	423.9	435.1	463.6	482.7	495.4
45°	565.3	533.5	482.7	452.5	479.5	501.8	492.3	508.1	520.8	530.3	543.1
47.5°	660.5	608.1	533.5	514.5	536.6	538.3	517.7	525.5	543.1	559.0	574.8
50°	728.8	670.0	560.5	512.9	511.2	554.2	581.1	603.3	563.7	525.5	524.0
52.5°	825.6	733.6	608.1	573.1	597.0	679.6	751.0	773.2	736.7	700.2	695.4
55°	1121.0	905.1	778.0	824.1	922.5	1005.0	1055.9	1071.7	1114.7	1141.6	1144.7
57.5°	1857.7	1357.6	1127.3	1192.5	1252.7	1252.7	1319.4	1421.1	1543.4	1567.2	1570.3
60°	3158.2	2208.6	1589.4	1527.5	1532.3	1521.2	1776.7	1976.8	2059.4	1910.1	1872.0
62.5°	4388.7	3000.9	1929.2	1714.8	1753.0	1816.4	2188.0	2365.9	2354.8	2218.2	2178.4
64°	4868.2	3304.2	2045.0	1748.2	1771.9	1867.3	2165.8	2257.9	2300.7	2281.6	2242.0
65°	4938.1	3385.2	2073.7	1743.4	1756.1	1851.4	2099.1	2181.6	2246.8	2256.2	2227.7
67.5°	4823.7	3488.4	2123.0	1691.1	1652.9	1743.4	1878.4	1999.0	2107.0	2188.0	2186.4
70°	4526.9	3471.0	2124.5	1675.2	1597.3	1659.2	1721.1	1884.7	2015.0	2068.9	2092.8
72.5°	4214.0	3318.5	1892.7	1567.2	1487.8	1554.4	1619.6	1795.8	1910.1	1941.8	1980.0
75°	4048.9	3188.4	1664.0	1494.1	1448.0	1509.9	1509.9	1654.6	1787.8	1824.4	1876.8
77.5°	3742.4	2904.0	1441.7	1313.1	1282.9	1316.3	1263.9	1368.7	1481.4	1508.4	1549.7
80°	2891.4	2248.3	1146.4	1057.5	1009.8	1008.3	928.9	1001.9	1086.1	1128.9	1156.0
82.5°	1870.5	1454.5	773.2	720.9	681.1	663.7	603.3	627.2	663.7	685.9	693.9
85°	938.3	773.2	482.7	458.9	428.7	420.8	400.2	420.8	428.7	423.9	425.6
87.5°	608.1	522.4	373.2	362.0	328.7	325.5	322.4	347.8	358.9	357.2	365.2
90°	512.9	444.5	341.3	335.0	311.1	308.1	312.8	338.2	349.3	346.1	347.8
92.5°	458.9	416.0	330.2	322.4	295.3	298.5	300.1	320.7	328.7	327.1	317.6
95°	425.6	389.1	331.8	325.5	290.5	297.0	301.7	311.1	306.5	300.1	293.7
97.5°	392.2	357.2	311.1	308.1	297.0	297.0	311.1	298.5	284.2	271.5	262.0
100°	376.3	347.8	311.1	308.1	303.3	303.3	323.9	312.8	287.4	271.5	269.9
102.5°	365.2	349.3	325.5	314.4	306.5	309.6	333.5	346.1	311.1	295.3	287.4
105°	376.3	374.7	354.1	338.2	323.9	335.0	362.0	363.7	344.6	315.9	306.5
107.5°	409.7	414.5	395.4	384.3	371.5	382.6	403.3	385.8	357.2	354.1	349.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	447.8	452.5	439.8	427.1	423.9	438.2	473.2	443.0	398.5	408.0	414.5
112.5°	487.5	498.6	484.3	460.4	460.4	492.3	557.3	571.6	511.2	482.7	481.0
115°	546.2	559.0	541.4	506.5	517.7	568.4	639.8	678.0	627.2	589.0	600.2
117.5°	658.9	679.6	655.7	639.8	647.8	703.4	797.1	825.6	786.0	757.4	773.2
120°	768.5	798.6	789.1	795.5	811.4	874.9	957.4	928.9	886.0	882.9	892.3
122.5°	897.1	901.8	895.5	927.3	968.5	1006.7	1014.6	954.2	908.3	868.6	866.9
125°	986.1	1000.3	1013.0	1024.1	1001.9	995.5	1000.3	967.0	917.7	828.8	814.5
127.5°	1089.3	1092.4	1068.6	1014.6	946.3	959.0	990.8	911.4	870.1	863.8	868.6
130°	1136.9	1113.0	1028.9	938.3	916.2	967.0	981.3	912.9	895.5	868.6	874.9
132.5°	1057.5	1054.3	984.4	943.1	912.9	947.9	982.9	951.1	894.0	797.1	773.2
135°	1043.2	1036.9	982.9	919.4	871.7	878.1	905.1	930.5	909.8	835.1	814.5
137.5°	1011.5	1005.0	949.6	873.3	887.5	898.7	914.6	925.7	936.8	933.6	922.5
140°	955.9	935.2	901.8	887.5	900.3	941.6	932.0	917.7	927.3	919.4	911.4
142.5°	967.0	947.9	897.1	855.8	843.1	870.1	865.3	868.6	844.7	803.4	798.6
145°	922.5	908.3	871.7	817.7	762.1	781.2	798.6	793.9	781.2	795.5	795.5
147.5°	844.7	827.3	793.9	778.0	743.0	782.8	800.3	784.3	774.9	746.3	738.3
150°	811.4	798.6	760.6	751.0	741.5	744.7	738.3	760.6	755.8	738.3	738.3
152.5°	747.8	751.0	781.2	755.8	725.6	724.1	738.3	752.6	770.1	770.1	771.7
155°	705.0	714.5	744.7	781.2	741.5	770.1	728.8	717.6	741.5	749.5	747.8
157.5°	698.7	690.7	693.9	714.5	697.0	698.7	689.1	690.7	684.3	666.9	660.5
160°	670.0	658.9	649.4	630.4	612.9	605.0	605.0	622.4	647.8	665.3	673.3
162.5°	597.0	603.3	622.4	605.0	612.9	643.1	624.0	633.5	646.3	644.6	647.8
165°	566.8	579.6	595.5	624.0	632.0	617.7	611.3	593.8	573.1	573.1	571.6
167.5°	597.0	585.9	568.4	559.0	559.0	568.4	571.6	557.3	546.2	544.6	543.1
170°	552.5	547.7	539.9	533.5	539.9	539.9	546.2	546.2	552.5	555.7	555.7
172.5°	509.7	511.2	516.0	522.4	522.4	517.7	516.0	516.0	509.7	508.1	509.7
175°	497.0	495.4	490.6	485.8	481.0	474.7	469.9	463.6	458.9	458.9	457.3
177.5°	474.7	471.6	469.9	466.9	465.2	460.4	458.9	454.1	452.5	449.3	447.8
180°	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2

(END OF REPORT)