

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: P14208

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

Issue Date: 6/29/2020

Test Information

Test Method: LM-79-08
Report Number: P14208
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-CAGE-5700
Description: McGRAW-EDISON POST TOP WITH A TYPE III SOLID TOP
PRISMATIC REFRACTOR WITH ARCHITECTURAL CAGE
Light Source: [6] 5700K LEDS
Ballast/Driver: [2] ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9173 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.08' x H: 2.21')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U3 - G3

Input Watts (W): 101.3
Input Voltage (V): NR
Input Current (A_{in}): 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

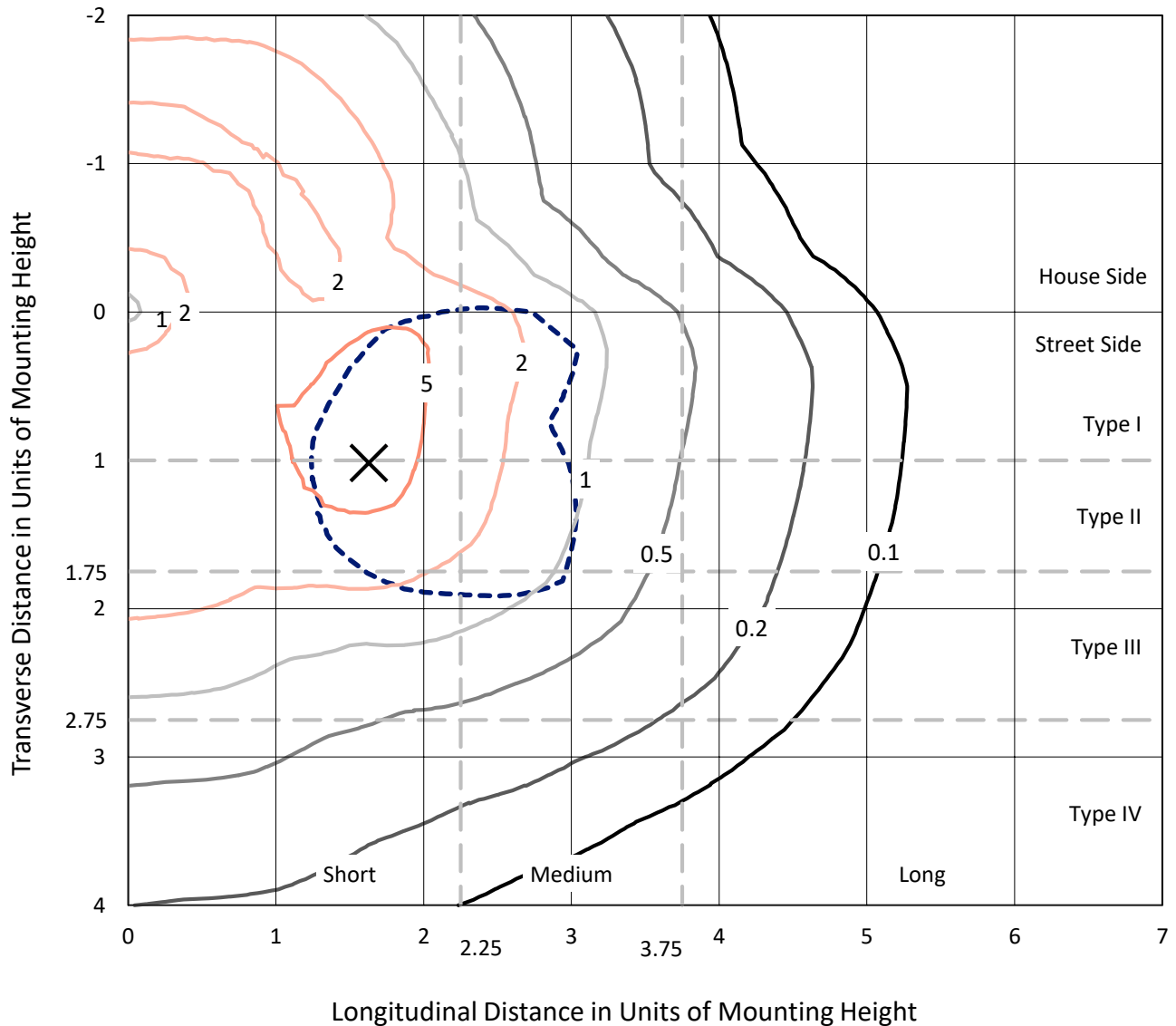


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

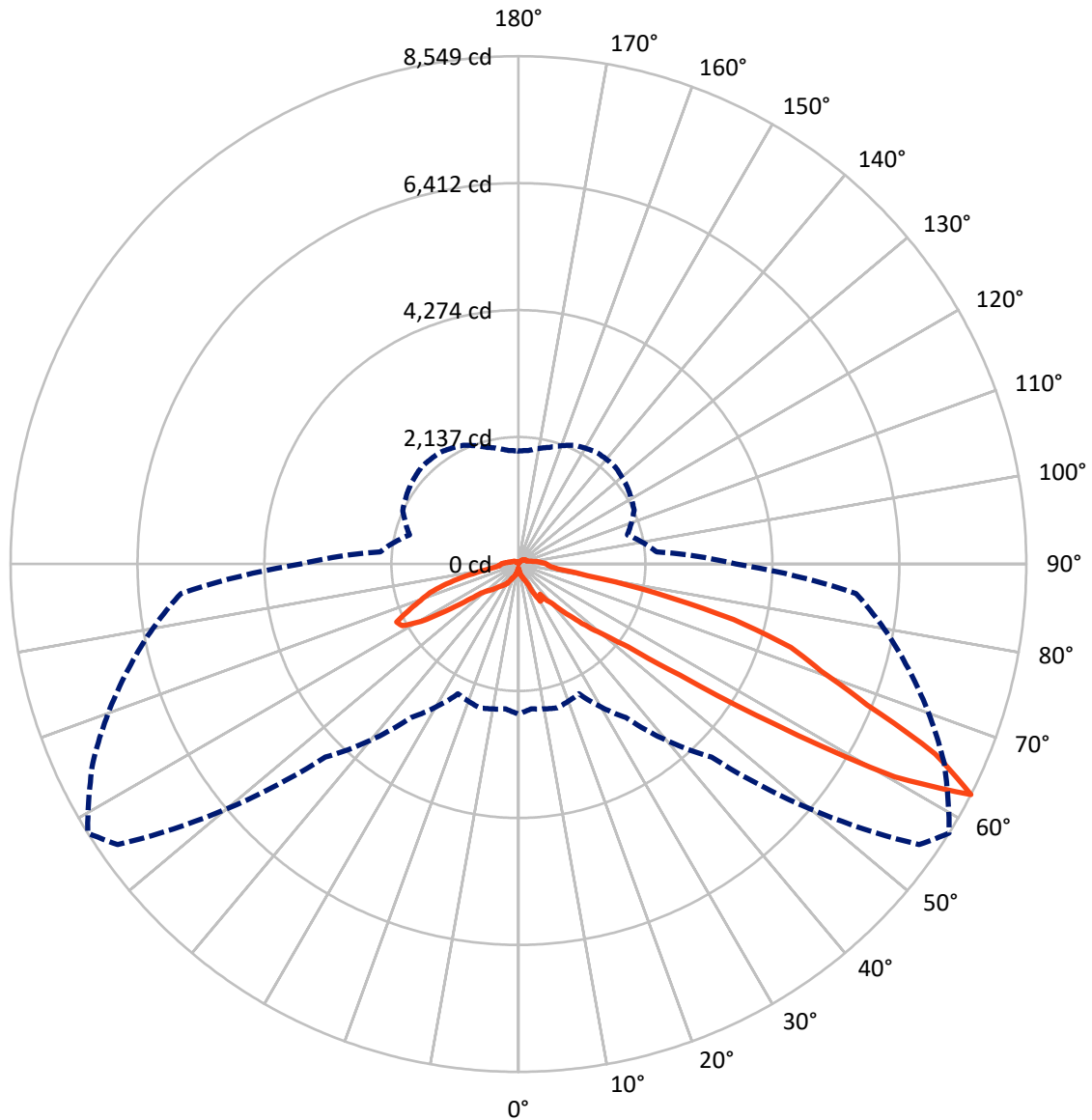


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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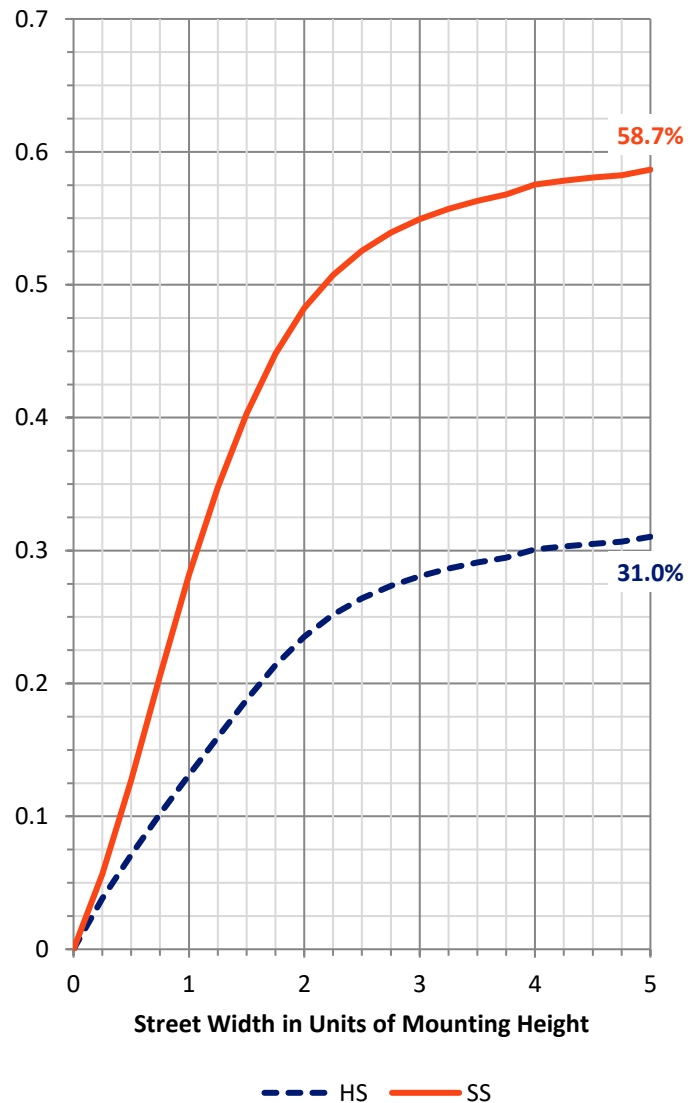
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2927.3	316.8	3244.1
	% Fixture	31.9	3.5	35.4
Street Side	Lumens	5506.7	422.2	5928.9
	% Fixture	60.0	4.6	64.6
Total	Lumens	8434.0	739.0	9173.0
	% Fixture	91.9	8.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.1	0.1
10°-20°	58.1	0.6
20°-30°	160.4	1.7
30°-40°	350.6	3.8
40°-50°	642.7	7.0
50°-60°	1589.9	17.3
60°-70°	3203.1	34.9
70°-80°	1938.9	21.1
80°-90°	479.2	5.2
90°-100°	285.3	3.1
100°-110°	162.0	1.8
110°-120°	110.6	1.2
120°-130°	81.5	0.9
130°-140°	52.6	0.6
140°-150°	27.8	0.3
150°-160°	12.6	0.1
160°-170°	5.4	0.1
170°-180°	1.1	0.0
0°-90°	8434.0	91.9
0°-180°	9173.0	100.0

Coefficient of Utilization



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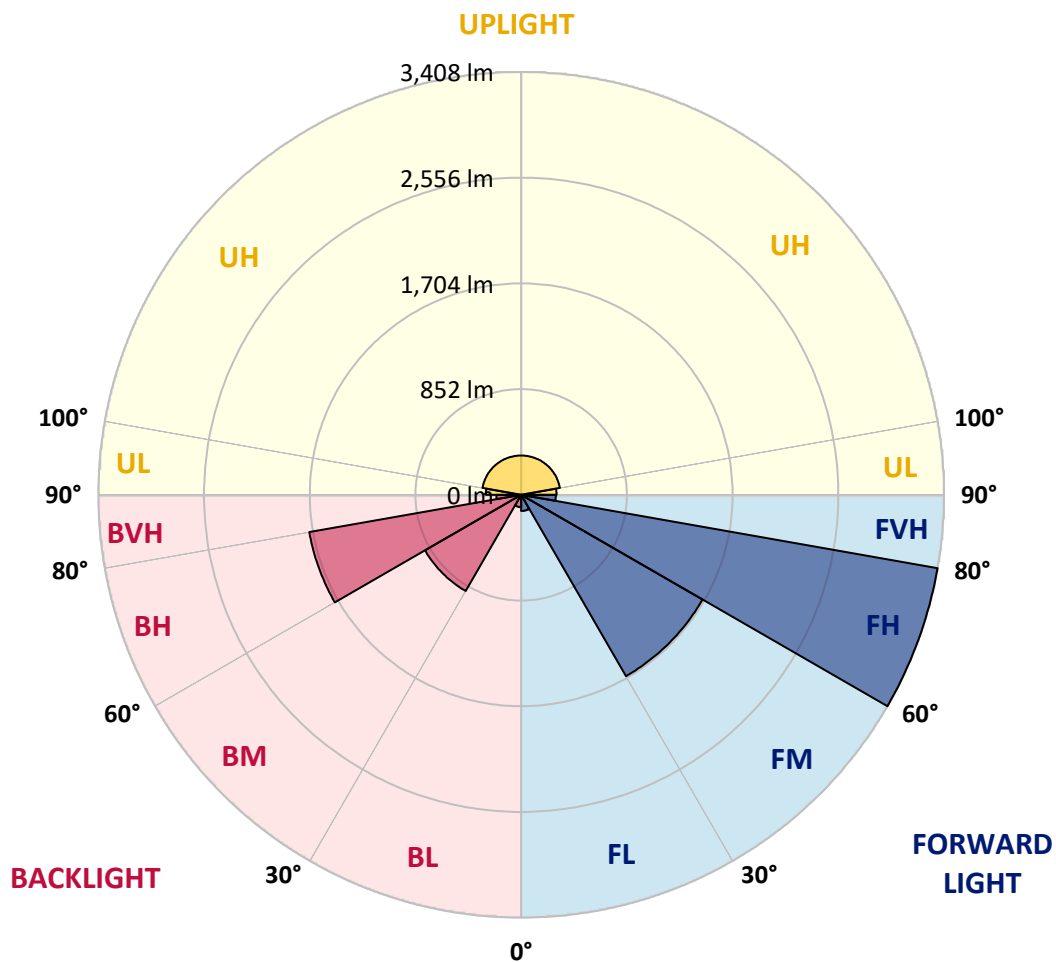
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	130.7	1.4			
FM (30°-60°)	1688.3	18.4			
FH (60°-80°)	3408.2	37.2			G2/5000
FVH (80°-90°)	279.5	3.0			G3/500
BL (0°-30°)	98.9	1.1	B0/110		
BM (30°-60°)	894.8	9.8	B1/1000		
BH (60°-80°)	1733.8	18.9	B3/2500		G3/2500
BVH (80°-90°)	199.7	2.2			G2/225
UL (90°-100°)	285.3	3.1		U3/500	
UH (100°-180°)	316.8	3.5		U3/500	

BUG Rating: B3-U3-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
2.5°	87.3	88.9	88.9	87.3	85.8	84.1	81.0	81.0	79.3	79.3	79.3
5°	111.2	111.2	111.2	109.5	108.0	104.7	101.7	101.7	103.2	98.4	95.3
7.5°	142.9	141.3	142.9	141.3	139.7	136.6	138.2	134.9	131.8	130.2	128.6
10°	174.7	173.1	174.7	174.7	173.1	171.4	165.1	166.7	163.6	157.3	154.0
12.5°	201.6	200.1	203.2	203.2	201.6	198.5	196.9	193.8	189.0	187.3	179.4
15°	219.2	215.9	219.2	219.2	220.7	223.9	219.2	215.9	211.2	206.4	200.1
17.5°	236.6	238.1	241.4	239.8	242.9	250.9	247.7	244.6	235.0	231.8	223.9
20°	257.2	260.5	262.0	260.5	260.5	269.9	274.6	271.5	260.5	257.2	241.4
22.5°	301.7	303.3	306.5	308.1	293.7	306.5	319.1	315.9	300.1	303.3	273.1
25°	355.7	350.9	350.9	346.1	347.8	368.4	390.6	390.6	368.4	333.5	300.1
27.5°	431.9	436.7	449.3	443.0	463.6	503.4	559.0	581.1	573.1	498.6	389.1
30°	554.2	554.2	589.0	598.6	605.0	662.2	701.8	730.4	757.4	638.3	490.6
32.5°	585.9	589.0	643.1	641.5	649.4	725.6	722.4	717.6	773.2	676.3	533.5
35°	570.1	582.7	630.4	624.0	646.3	838.4	658.9	625.6	671.7	628.7	509.7
37.5°	603.3	616.1	638.3	641.5	693.9	982.9	792.3	774.9	768.5	681.1	539.9
40°	687.6	705.0	744.7	768.5	806.6	1127.3	897.1	863.8	800.3	836.8	622.4
42.5°	811.4	819.3	836.8	879.7	954.2	1216.2	1128.9	1078.2	912.9	979.6	714.5
45°	897.1	911.4	935.2	957.4	1009.8	1278.1	1348.0	1286.1	1041.5	1178.2	828.8
47.5°	981.3	978.1	990.8	1011.5	1071.7	1456.0	1638.6	1586.2	1211.4	1344.8	935.2
50°	878.1	876.4	962.2	992.4	935.2	1370.2	1837.1	1868.8	1500.5	1348.0	1028.9
52.5°	989.2	957.4	1081.3	1092.4	1111.5	1646.6	2273.8	2310.3	2103.9	1729.1	1202.0
55°	1383.0	1290.9	1421.1	1433.8	1564.0	2092.8	3123.2	3294.7	3305.8	2950.1	1795.8
57.5°	1924.4	1770.4	1945.1	1954.6	2267.4	2843.8	4682.4	5095.2	5266.8	4596.7	2999.4
60°	2294.4	2151.5	2302.3	2265.8	2834.3	3669.4	6754.6	7275.3	7221.3	6095.6	4552.3
62.5°	2524.7	2446.9	2507.1	2410.2	3151.9	4596.7	8234.3	8548.7	7904.1	6792.6	5703.3
65°	2369.0	2372.2	2373.7	2310.3	3040.7	4861.9	7704.0	7708.8	7045.1	5927.3	5832.0
67.5°	2280.1	2278.5	2310.3	2197.5	2754.8	4655.5	6378.3	6325.8	5928.8	5047.6	5293.8
70°	2057.8	2045.0	2127.6	2022.8	2399.1	4028.3	5236.6	5408.1	5057.2	4422.0	4625.3
72.5°	1889.5	1851.4	1943.5	1810.1	2100.6	3240.7	4493.5	4793.6	4507.8	3994.9	4102.8
75°	1587.9	1540.1	1637.0	1479.9	1649.8	2377.0	3447.1	3740.9	3666.3	3364.6	3359.8
77.5°	1124.1	1071.7	1135.3	1014.6	1128.9	1457.6	2153.0	2381.7	2557.9	2416.7	2316.6
80°	693.9	651.1	697.0	628.7	697.0	766.9	1049.5	1176.6	1379.8	1386.1	1271.8
82.5°	436.7	416.0	435.1	401.7	430.3	501.8	614.4	665.3	738.3	741.5	668.5
85°	349.3	339.8	350.9	344.6	366.7	441.4	514.5	536.6	536.6	485.8	466.9
87.5°	343.0	335.0	346.1	346.1	374.7	454.1	490.6	495.4	485.8	430.3	443.0
90°	331.8	323.9	333.5	338.2	373.2	455.8	465.2	463.6	446.2	396.9	403.3
92.5°	292.2	285.9	298.5	304.8	330.2	387.4	400.2	404.9	393.8	354.1	331.8
95°	268.3	265.2	276.3	281.1	298.5	333.5	352.6	355.7	344.6	304.8	295.3
97.5°	235.0	231.8	238.1	244.6	258.8	293.7	298.5	301.7	281.1	250.9	244.6
100°	204.9	203.2	211.2	214.4	222.3	250.9	244.6	244.6	231.8	209.6	206.4
102.5°	184.2	181.0	185.8	185.8	198.5	215.9	206.4	204.9	192.1	169.9	165.1
105°	166.7	165.1	171.4	169.9	176.2	187.3	179.4	179.4	163.6	147.7	144.5
107.5°	149.3	152.5	157.3	158.8	166.7	179.4	166.7	161.9	144.5	133.4	131.8
110°	139.7	136.6	139.7	142.9	150.8	163.6	152.5	152.5	139.7	127.1	130.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
112.5°	122.3	122.3	127.1	128.6	134.9	142.9	142.9	146.0	136.6	125.4	125.4
115°	119.1	112.7	117.5	119.1	127.1	130.2	133.4	133.4	128.6	122.3	119.1
117.5°	106.4	106.4	108.0	111.2	120.6	131.8	141.3	142.9	131.8	133.4	123.8
120°	98.4	103.2	101.7	103.2	108.0	117.5	127.1	128.6	114.3	123.8	116.0
122.5°	96.9	96.9	100.0	100.0	108.0	119.1	123.8	120.6	114.3	116.0	117.5
125°	90.6	88.9	90.6	92.1	104.7	108.0	112.7	112.7	114.3	111.2	116.0
127.5°	84.1	82.6	87.3	87.3	98.4	101.7	112.7	112.7	119.1	112.7	104.7
130°	76.2	77.8	79.3	81.0	90.6	93.7	108.0	109.5	109.5	101.7	100.0
132.5°	77.8	74.7	76.2	81.0	84.1	92.1	104.7	108.0	106.4	100.0	92.1
135°	69.9	69.9	71.5	73.0	77.8	82.6	95.3	95.3	95.3	90.6	82.6
137.5°	53.9	52.4	58.7	58.7	65.1	68.2	76.2	74.7	73.0	73.0	63.5
140°	58.7	58.7	63.5	63.5	65.1	66.7	69.9	68.2	68.2	69.9	63.5
142.5°	49.3	49.3	49.3	50.8	50.8	55.6	55.6	53.9	53.9	57.1	50.8
145°	49.3	49.3	49.3	47.6	49.3	52.4	52.4	52.4	53.9	58.7	49.3
147.5°	42.8	41.3	41.3	41.3	39.7	44.5	42.8	42.8	47.6	47.6	42.8
150°	36.5	36.5	36.5	35.0	33.3	35.0	39.7	38.1	39.7	38.1	38.1
152.5°	33.3	31.7	31.7	28.6	30.2	30.2	33.3	31.7	35.0	35.0	33.3
155°	27.0	25.4	23.9	22.2	20.6	20.6	23.9	25.4	25.4	27.0	27.0
157.5°	22.2	23.9	20.6	20.6	20.6	17.4	20.6	20.6	22.2	22.2	23.9
160°	14.3	17.4	15.9	15.9	15.9	15.9	15.9	17.4	15.9	19.1	20.6
162.5°	15.9	15.9	14.3	12.6	14.3	15.9	14.3	17.4	14.3	19.1	17.4
165°	12.6	12.6	14.3	12.6	12.6	14.3	12.6	14.3	14.3	15.9	17.4
167.5°	15.9	14.3	14.3	14.3	15.9	14.3	15.9	15.9	17.4	17.4	19.1
170°	11.1	11.1	9.5	9.5	12.6	12.6	11.1	12.6	12.6	12.6	12.6
172.5°	12.6	11.1	12.6	11.1	12.6	12.6	9.5	12.6	11.1	12.6	12.6
175°	11.1	9.5	9.5	9.5	9.5	11.1	8.0	8.0	9.5	9.5	11.1
177.5°	12.6	9.5	9.5	12.6	11.1	9.5	11.1	9.5	9.5	9.5	9.5
180°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
2.5°	77.8	79.3	79.3	76.2	76.2	73.0	69.9	68.2	69.9	69.9	66.7
5°	98.4	95.3	93.7	92.1	90.6	88.9	85.8	84.1	81.0	82.6	81.0
7.5°	123.8	123.8	119.1	116.0	112.7	111.2	109.5	108.0	108.0	108.0	106.4
10°	150.8	149.3	146.0	142.9	138.2	138.2	134.9	133.4	133.4	133.4	131.8
12.5°	176.2	174.7	169.9	166.7	165.1	161.9	161.9	161.9	160.3	160.3	158.8
15°	195.3	193.8	190.5	185.8	185.8	185.8	182.5	181.0	181.0	182.5	181.0
17.5°	217.5	215.9	211.2	206.4	206.4	211.2	207.9	203.2	203.2	206.4	207.9
20°	233.4	228.6	223.9	228.6	227.0	227.0	225.5	223.9	222.3	227.0	225.5
22.5°	263.5	254.0	247.7	252.5	247.7	252.5	254.0	250.9	247.7	249.2	250.9
25°	285.9	281.1	276.3	273.1	274.6	273.1	271.5	271.5	273.1	273.1	269.9
27.5°	349.3	330.2	317.6	317.6	314.4	317.6	312.8	312.8	314.4	315.9	317.6
30°	427.1	400.2	370.0	368.4	365.2	363.7	366.7	363.7	362.0	370.0	366.7
32.5°	476.4	438.2	401.7	403.3	404.9	408.0	408.0	406.5	398.5	403.3	403.3
35°	465.2	439.8	420.8	417.6	425.6	430.3	430.3	422.3	412.8	408.0	406.5
37.5°	487.5	471.6	462.1	462.1	457.3	458.9	460.4	454.1	446.2	443.0	443.0
40°	560.5	530.3	506.5	490.6	487.5	497.0	509.7	506.5	493.8	492.3	497.0
42.5°	630.4	585.9	547.7	527.1	531.9	552.5	566.8	555.7	543.1	538.3	536.6
45°	711.3	641.5	585.9	577.9	590.7	612.9	616.1	598.6	590.7	595.5	598.6
47.5°	795.5	716.1	657.4	638.3	651.1	676.3	687.6	671.7	658.9	639.8	649.4
50°	855.8	751.0	665.3	674.8	705.0	724.1	716.1	690.7	662.2	666.9	668.5
52.5°	925.7	813.0	763.7	782.8	800.3	814.5	806.6	784.3	781.2	754.3	747.8
55°	1225.8	1032.1	1008.3	1040.0	1036.9	1046.3	1089.3	1075.0	1051.1	1075.0	1087.6
57.5°	1921.2	1443.3	1365.5	1408.4	1467.1	1519.5	1576.6	1508.4	1432.2	1433.8	1449.7
60°	2813.6	1914.9	1657.6	1833.9	1930.7	2000.7	2010.2	1881.6	1760.8	1729.1	1730.7
62.5°	3659.9	2335.7	1897.5	2148.4	2242.0	2308.7	2295.9	2205.5	2032.4	1918.1	1900.6
65°	4272.7	2675.5	1984.8	2254.7	2278.5	2313.5	2397.6	2313.5	2022.8	1853.0	1845.1
67.5°	4477.6	2791.3	1838.6	1992.7	2024.4	2191.2	2242.0	2143.6	1902.2	1727.6	1730.7
70°	4196.6	2562.7	1541.8	1668.7	1800.6	1962.5	1919.6	1829.1	1698.9	1576.6	1592.6
72.5°	3628.1	2124.5	1278.1	1473.4	1600.5	1679.8	1614.8	1560.8	1525.9	1446.5	1471.9
75°	2832.7	1641.8	1060.6	1225.8	1279.8	1349.6	1286.1	1275.0	1289.4	1254.4	1271.8
77.5°	1841.9	1092.4	798.6	882.9	917.7	951.1	911.4	927.3	944.8	943.1	952.7
80°	973.3	632.0	546.2	584.4	600.2	600.2	592.2	614.4	632.0	635.1	646.3
82.5°	536.6	403.3	382.6	408.0	404.9	396.9	400.2	408.0	408.0	395.4	396.9
85°	404.9	314.4	312.8	330.2	330.2	330.2	322.4	315.9	303.3	281.1	281.1
87.5°	387.4	301.7	293.7	309.6	309.6	308.1	304.8	293.7	277.9	252.5	252.5
90°	343.0	265.2	269.9	295.3	295.3	289.0	289.0	277.9	262.0	238.1	247.7
92.5°	279.4	217.5	239.8	262.0	262.0	258.8	257.2	252.5	235.0	215.9	207.9
95°	254.0	198.5	211.2	233.4	235.0	235.0	233.4	225.5	214.4	193.8	192.1
97.5°	206.4	166.7	179.4	192.1	195.3	201.6	198.5	193.8	179.4	166.7	160.3
100°	179.4	149.3	157.3	173.1	176.2	179.4	177.9	174.7	161.9	146.0	152.5
102.5°	147.7	125.4	136.6	149.3	158.8	154.0	154.0	149.3	138.2	125.4	125.4
105°	131.8	116.0	123.8	136.6	136.6	139.7	138.2	133.4	127.1	114.3	116.0
107.5°	127.1	104.7	114.3	122.3	127.1	127.1	127.1	120.6	116.0	106.4	104.7
110°	116.0	100.0	106.4	116.0	116.0	114.3	112.7	111.2	106.4	96.9	96.9



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CATALOG NUMBER: GAR-080-LED-E1-3-SPUN-CAGE-5700

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	112.7	96.9	103.2	109.5	108.0	106.4	103.2	100.0	96.9	87.3	87.3
115°	106.4	90.6	95.3	101.7	103.2	100.0	93.7	96.9	88.9	84.1	77.8
117.5°	104.7	88.9	90.6	98.4	96.9	100.0	95.3	90.6	85.8	79.3	81.0
120°	103.2	84.1	82.6	84.1	85.8	84.1	84.1	82.6	71.5	69.9	66.7
122.5°	108.0	90.6	85.8	87.3	88.9	85.8	84.1	79.3	74.7	69.9	69.9
125°	98.4	84.1	77.8	81.0	79.3	79.3	74.7	74.7	69.9	66.7	66.7
127.5°	93.7	82.6	76.2	76.2	74.7	74.7	71.5	73.0	68.2	63.5	65.1
130°	85.8	73.0	68.2	68.2	69.9	68.2	63.5	61.9	61.9	58.7	61.9
132.5°	79.3	68.2	66.7	66.7	63.5	63.5	61.9	60.4	58.7	55.6	52.4
135°	71.5	63.5	58.7	60.4	58.7	58.7	57.1	57.1	55.6	53.9	53.9
137.5°	55.6	49.3	46.1	44.5	47.6	44.5	42.8	41.3	44.5	44.5	44.5
140°	58.7	55.6	50.8	49.3	46.1	46.1	46.1	47.6	49.3	49.3	47.6
142.5°	44.5	47.6	39.7	38.1	36.5	36.5	36.5	35.0	39.7	39.7	39.7
145°	46.1	44.5	41.3	39.7	38.1	36.5	36.5	36.5	39.7	42.8	42.8
147.5°	39.7	39.7	38.1	35.0	33.3	31.7	30.2	33.3	35.0	36.5	36.5
150°	38.1	38.1	33.3	31.7	30.2	31.7	28.6	30.2	33.3	33.3	33.3
152.5°	33.3	31.7	31.7	28.6	27.0	28.6	28.6	30.2	30.2	31.7	35.0
155°	25.4	25.4	27.0	25.4	25.4	23.9	25.4	27.0	27.0	27.0	27.0
157.5°	22.2	25.4	27.0	25.4	27.0	27.0	25.4	27.0	27.0	27.0	30.2
160°	20.6	20.6	25.4	27.0	25.4	27.0	25.4	23.9	28.6	25.4	25.4
162.5°	19.1	20.6	22.2	23.9	25.4	27.0	25.4	25.4	25.4	25.4	27.0
165°	17.4	20.6	22.2	23.9	23.9	23.9	23.9	23.9	22.2	23.9	22.2
167.5°	17.4	19.1	20.6	22.2	23.9	23.9	23.9	23.9	23.9	23.9	25.4
170°	12.6	14.3	15.9	17.4	17.4	15.9	12.6	15.9	15.9	15.9	14.3
172.5°	12.6	12.6	14.3	12.6	15.9	12.6	12.6	11.1	14.3	12.6	14.3
175°	9.5	11.1	11.1	11.1	11.1	9.5	9.5	9.5	9.5	11.1	8.0
177.5°	9.5	11.1	11.1	9.5	11.1	12.6	9.5	11.1	11.1	9.5	9.5
180°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6

(END OF REPORT)