

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: P588630

Luminaire Tested: **ARC-CA6-90-740-U-33-X-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2109-372-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC-CA6-90-740-U-33-X-5-X-GHSS
Description: GENERATIONS SERIES AVENUE WITH NO CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD
Light Source: (3) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6300 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.08')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U3 - G5

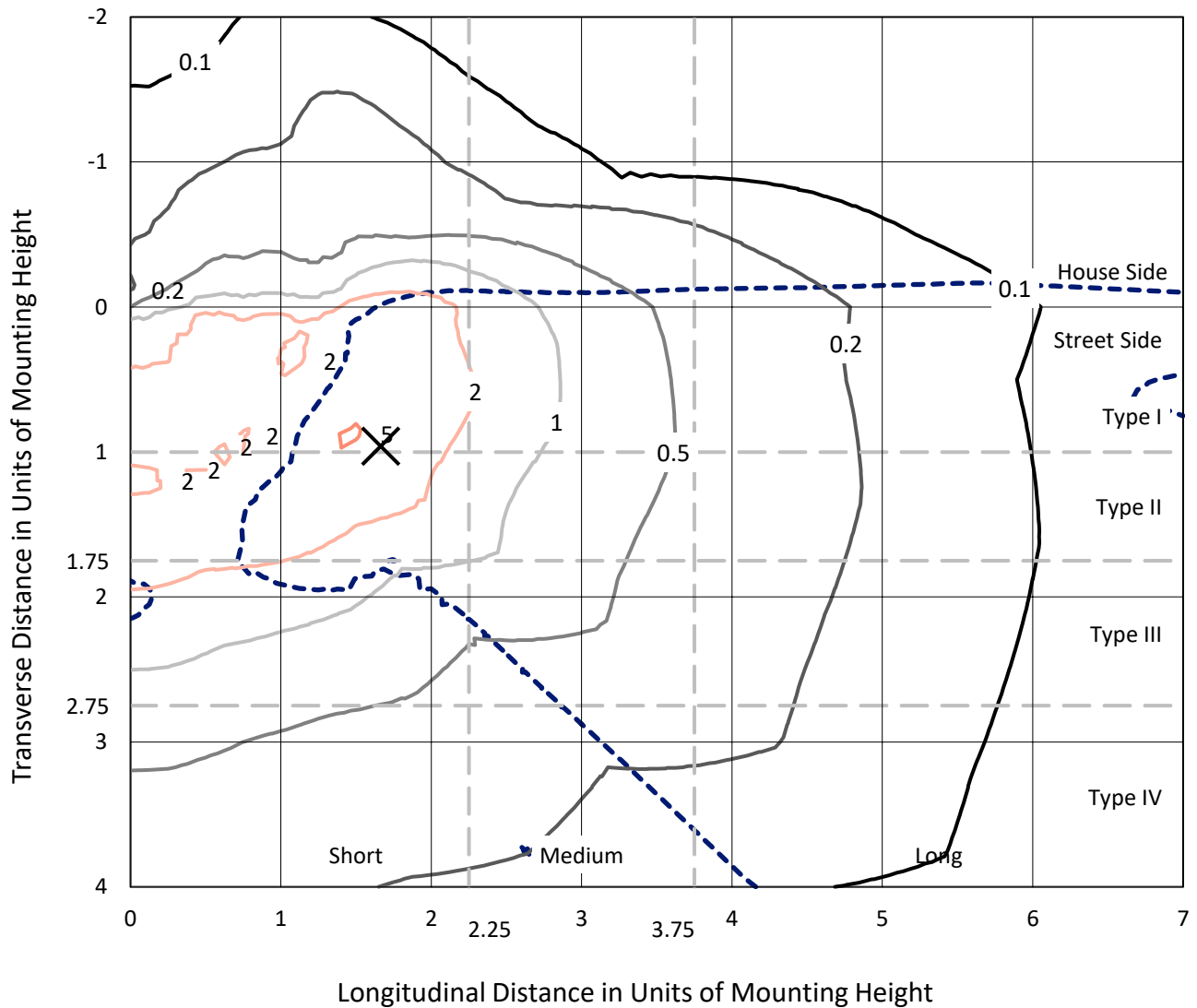
Input Watts (W): 47.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

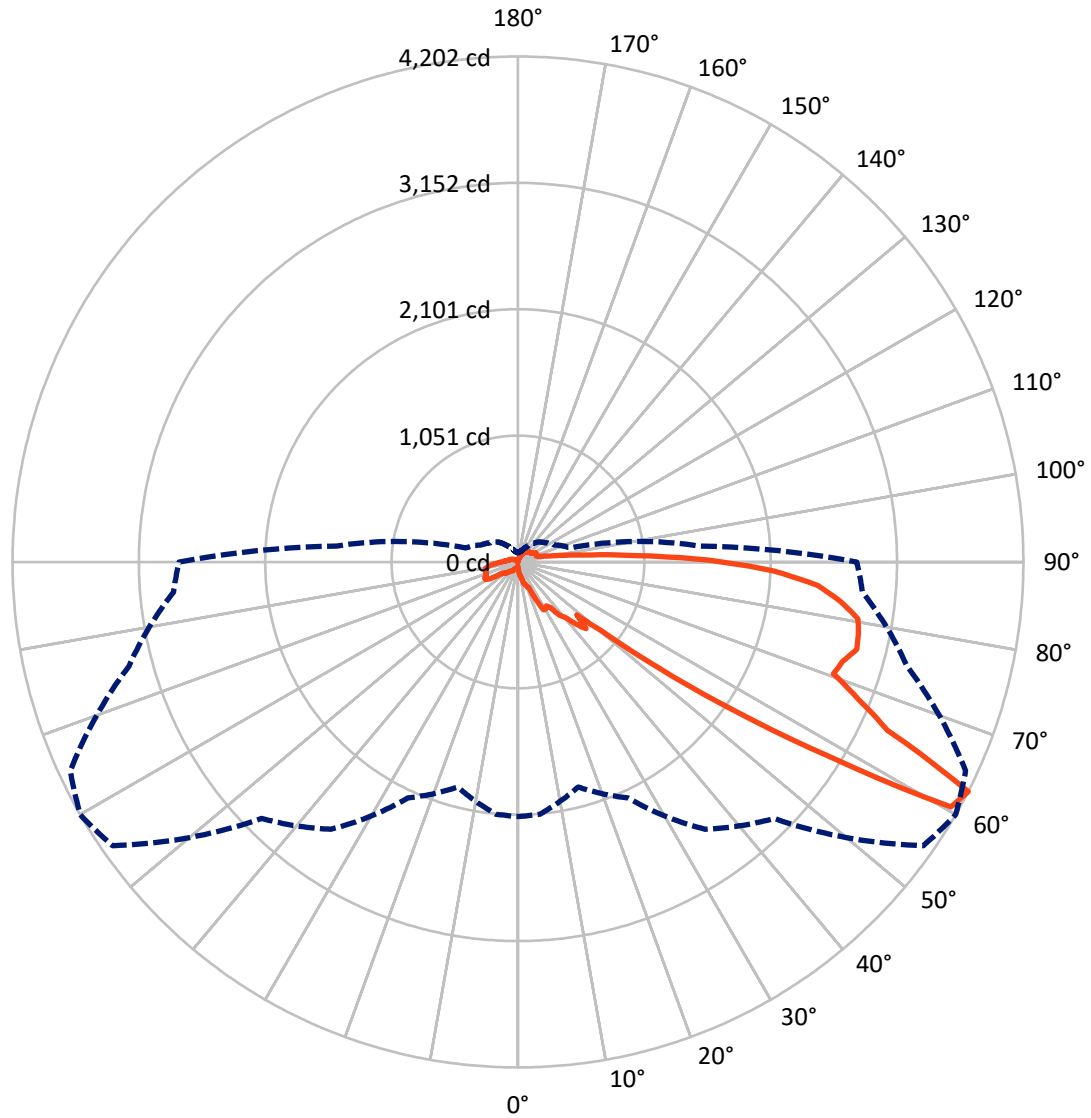
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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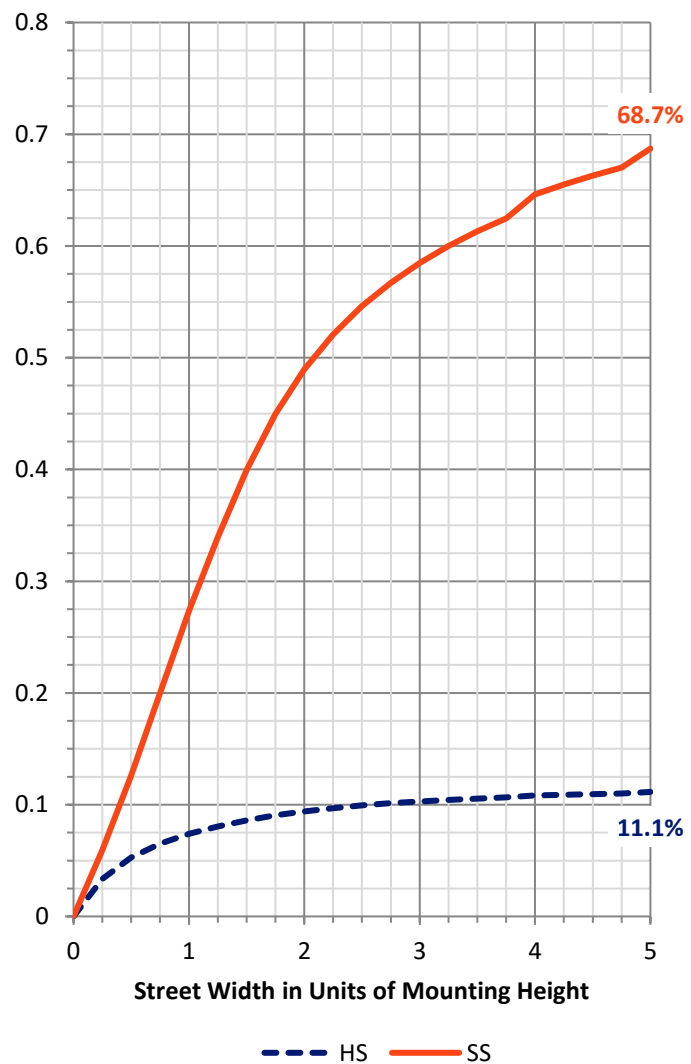
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	739.1	147.4	886.4
	% Fixture	11.7	2.3	14.1
Street Side	Lumens	4812.3	601.3	5413.6
	% Fixture	76.4	9.5	85.9
Total	Lumens	5551.3	748.7	6300.0
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	0.1
10°-20°	30.3	0.5
20°-30°	90.1	1.4
30°-40°	181.0	2.9
40°-50°	318.6	5.1
50°-60°	879.5	14.0
60°-70°	1520.7	24.1
70°-80°	1411.6	22.4
80°-90°	1113.0	17.7
90°-100°	353.2	5.6
100°-110°	126.0	2.0
110°-120°	103.5	1.6
120°-130°	68.1	1.1
130°-140°	48.5	0.8
140°-150°	31.4	0.5
150°-160°	14.4	0.2
160°-170°	3.6	0.1
170°-180°	0.1	0.0
0°-90°	5551.3	88.1
0°-180°	6300.0	100.0

Coefficient of Utilization



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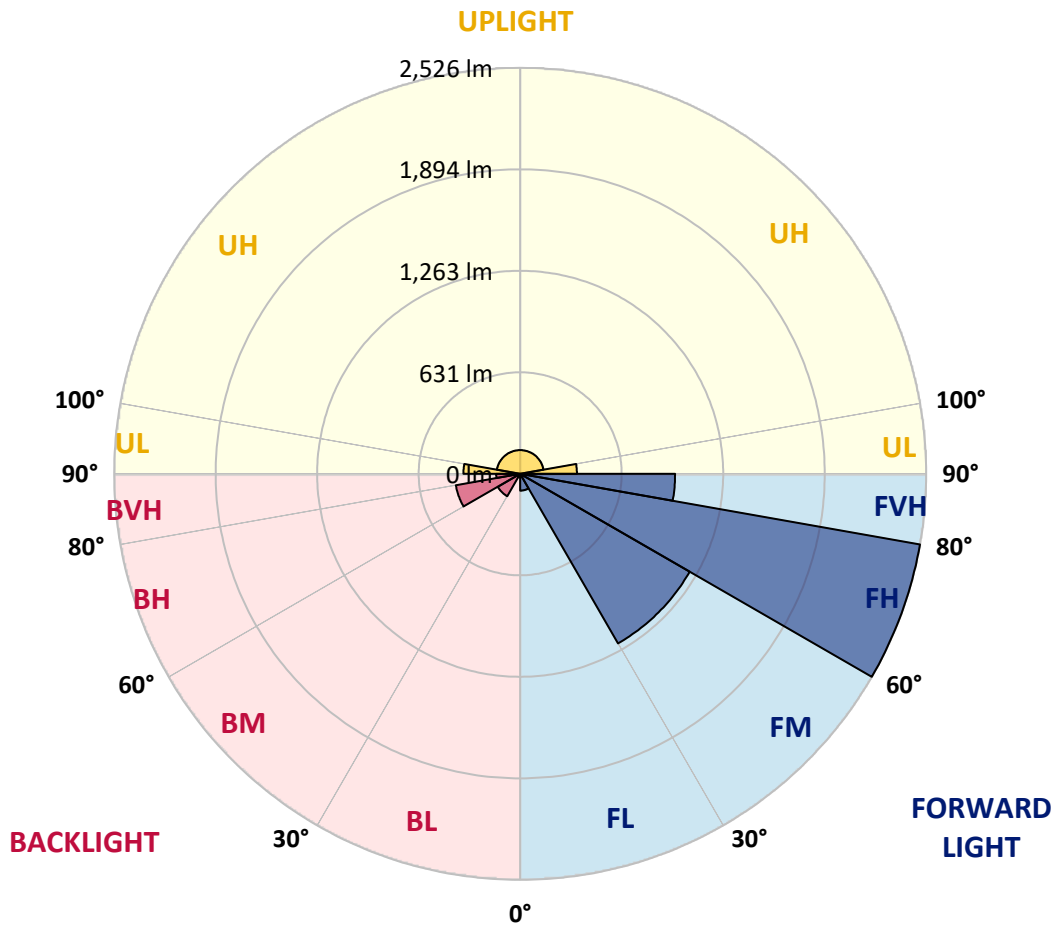
CATALOG NUMBER: ARC-CA6-90-740-U-33-X-5-X-GHSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	104.6	1.7			
FM (30°-60°)	1218.2	19.3			
FH (60°-80°)	2525.7	40.1			G2/5000
FVH (80°-90°)	963.8	15.3			G5
BL (0°-30°)	22.4	0.4	B0/110		
BM (30°-60°)	160.9	2.6	B0/220		
BH (60°-80°)	406.5	6.5	B1/500		G1/500
BVH (80°-90°)	149.2	2.4			G2/225
UL (90°-100°)	353.2	5.6		U3/500	
UH (100°-180°)	147.4	2.3		U3/500	

BUG Rating: B1-U3-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
2.5°	74.7	72.7	73.7	73.7	74.7	70.8	66.9	64.0	61.1	57.2	52.4
5°	106.6	104.7	101.8	100.8	98.9	95.0	89.2	87.3	81.4	73.7	64.0
7.5°	129.9	128.9	128.0	125.1	123.1	117.3	110.5	107.6	100.8	90.2	78.5
10°	147.4	147.4	148.3	143.5	134.8	129.9	124.1	122.2	117.3	102.8	88.2
12.5°	161.9	160.0	152.2	148.3	144.5	145.4	146.4	145.4	143.5	119.3	98.9
15°	175.5	173.5	167.7	162.9	160.0	169.7	191.0	189.1	188.1	150.3	115.4
17.5°	185.2	185.2	191.0	194.9	199.7	185.2	181.3	187.1	193.9	165.8	130.9
20°	213.3	209.4	204.6	200.7	224.9	214.3	218.1	224.9	229.8	185.2	143.5
22.5°	200.7	201.7	223.0	230.8	219.1	213.3	226.9	229.8	230.8	212.3	149.3
25°	274.4	261.8	254.0	278.3	276.3	319.0	331.6	340.3	340.3	288.0	208.5
27.5°	379.1	379.1	412.1	476.0	465.4	466.3	451.8	450.8	469.3	486.7	317.0
30°	411.1	421.7	513.9	545.9	580.8	537.1	489.6	452.8	460.5	554.6	369.4
32.5°	420.8	430.5	542.0	507.1	519.7	502.2	509.0	434.4	415.9	510.9	359.7
35°	367.5	381.0	472.2	427.6	403.3	455.7	518.7	465.4	456.7	419.8	325.8
37.5°	490.6	497.4	529.4	522.6	530.3	533.2	608.9	560.4	570.1	507.1	412.1
40°	563.3	555.5	680.6	710.7	699.0	688.4	681.6	606.9	618.6	587.5	557.5
42.5°	692.3	683.5	771.8	790.2	793.1	765.0	797.0	702.9	673.8	609.8	694.2
45°	701.0	705.8	789.2	741.7	791.1	842.5	900.7	792.1	739.8	632.1	806.7
47.5°	620.5	641.8	825.1	783.4	734.9	689.3	711.6	656.4	613.7	500.3	775.6
50°	633.1	641.8	759.1	709.7	590.4	731.0	926.9	887.1	840.6	620.5	747.5
52.5°	895.9	892.0	943.4	946.3	976.3	1097.5	1484.4	1452.4	1460.1	1208.0	1113.0
55°	1228.4	1226.5	1356.4	1563.9	1735.5	1794.6	2299.7	2173.7	2116.5	1872.2	1965.3
57.5°	1588.1	1604.6	1661.8	1952.7	2246.4	2323.0	3114.2	3049.2	2923.2	2442.3	2690.5
60°	1967.2	1957.5	1873.1	2064.1	2534.4	2916.4	4103.1	4134.1	3883.0	3074.4	2936.7
62.5°	2116.5	2103.9	1936.2	2164.0	2711.8	3015.3	4112.8	4202.0	4106.0	3347.8	2874.7
65°	2091.3	2062.2	1839.2	2018.6	2289.1	2565.4	3671.6	3375.9	3533.0	3423.4	2717.6
67.5°	1992.4	1985.6	1778.1	1877.0	2053.5	2089.4	3353.6	3055.0	3111.2	3491.3	2764.2
70°	1868.3	1866.4	1709.3	1784.0	2035.1	1998.2	3104.5	2783.5	2750.6	3124.8	2775.8
72.5°	1872.2	1870.2	1696.7	1721.9	1991.4	1931.3	3078.3	2822.3	2762.2	2944.5	2642.0
75°	1904.2	1906.1	1721.9	1750.0	2052.5	1944.9	3140.3	2908.6	2847.5	2927.0	2535.3
77.5°	1873.1	1888.7	1707.4	1770.4	2091.3	1943.0	3111.2	2892.1	2805.8	2783.5	2331.7
80°	1769.4	1790.7	1627.9	1700.6	2056.4	1969.1	3087.0	2866.9	2757.4	2635.2	2185.3
82.5°	1552.2	1574.5	1449.5	1516.4	1912.9	1861.5	2917.3	2704.0	2606.1	2392.8	1994.3
85°	1334.1	1385.5	1324.4	1334.1	1688.9	1704.4	2688.5	2500.4	2432.6	2246.4	1929.4
87.5°	1101.4	1146.0	1088.8	1020.0	1265.2	1354.4	2223.2	2130.1	2111.7	1982.7	1674.4
90°	815.4	856.1	822.2	732.0	857.1	913.3	1638.5	1587.1	1626.9	1479.5	1150.8
92.5°	591.4	598.2	558.5	483.8	571.1	598.2	1074.2	995.7	1042.3	906.5	674.8
95°	395.6	412.1	381.0	349.0	414.0	416.9	662.2	604.0	578.8	520.6	403.3
97.5°	289.9	290.9	279.2	250.1	290.9	294.7	440.2	396.5	374.2	350.0	279.2
100°	229.8	229.8	212.3	193.9	202.6	210.4	306.4	276.3	264.7	254.0	210.4
102.5°	200.7	199.7	185.2	166.8	165.8	169.7	231.7	211.4	202.6	195.8	165.8
105°	190.0	189.1	174.5	155.1	150.3	147.4	192.9	179.4	173.5	167.7	149.3
107.5°	188.1	186.2	171.6	154.2	146.4	138.6	173.5	161.9	162.9	157.1	143.5
110°	190.0	190.0	177.4	166.8	154.2	143.5	174.5	161.9	165.8	163.9	149.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	185.2	190.0	185.2	178.4	164.8	156.1	182.3	167.7	172.6	172.6	154.2
115°	174.5	179.4	179.4	172.6	160.0	157.1	180.3	167.7	169.7	166.8	143.5
117.5°	160.0	162.9	160.9	153.2	142.5	140.6	167.7	161.9	161.9	153.2	133.8
120°	149.3	143.5	135.7	129.9	124.1	128.9	151.2	145.4	140.6	136.7	122.2
122.5°	133.8	127.0	118.3	115.4	111.5	118.3	137.7	132.8	128.0	126.0	115.4
125°	110.5	110.5	106.6	104.7	103.7	113.4	135.7	130.9	124.1	120.2	107.6
127.5°	106.6	106.6	103.7	101.8	102.8	114.4	132.8	128.0	120.2	115.4	103.7
130°	107.6	105.7	101.8	98.9	99.9	113.4	131.9	126.0	118.3	114.4	103.7
132.5°	101.8	99.9	97.0	95.0	94.0	107.6	125.1	122.2	116.3	107.6	96.0
135°	98.9	97.0	95.0	94.0	94.0	104.7	119.3	116.3	110.5	100.8	88.2
137.5°	97.9	96.0	92.1	91.1	90.2	99.9	111.5	109.6	103.7	95.0	84.3
140°	93.1	90.2	87.3	86.3	86.3	94.0	105.7	103.7	97.9	91.1	81.4
142.5°	86.3	84.3	81.4	81.4	82.4	90.2	102.8	101.8	95.0	87.3	78.5
145°	82.4	80.5	78.5	79.5	80.5	87.3	97.0	96.0	91.1	84.3	75.6
147.5°	75.6	74.7	72.7	71.7	73.7	79.5	90.2	90.2	87.3	78.5	69.8
150°	65.9	65.0	63.0	62.1	64.0	69.8	78.5	78.5	75.6	66.9	59.1
152.5°	55.3	54.3	54.3	55.3	57.2	60.1	67.9	68.8	65.9	57.2	50.4
155°	48.5	47.5	47.5	48.5	51.4	54.3	59.1	59.1	56.2	50.4	43.6
157.5°	41.7	40.7	40.7	41.7	44.6	46.5	51.4	50.4	48.5	43.6	37.8
160°	32.0	31.0	31.0	32.0	34.9	36.8	40.7	40.7	39.8	36.8	32.0
162.5°	24.2	23.3	23.3	24.2	26.2	27.1	30.1	31.0	31.0	29.1	25.2
165°	18.4	17.5	17.5	17.5	19.4	20.4	21.3	21.3	21.3	20.4	17.5
167.5°	11.6	10.7	10.7	11.6	12.6	12.6	13.6	13.6	12.6	12.6	10.7
170°	5.8	4.8	4.8	5.8	5.8	5.8	4.8	3.9	3.9	3.9	3.9
172.5°	1.9	1.0	2.9	2.9	1.9	0.0	0.0	1.0	1.0	1.0	0.0
175°	1.9	1.0	2.9	2.9	1.9	0.0	0.0	1.0	0.0	1.0	0.0
177.5°	1.0	1.0	2.9	2.9	1.9	0.0	0.0	0.0	0.0	1.0	0.0
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
2.5°	50.4	49.4	45.6	39.8	33.9	28.1	27.1	28.1	29.1	30.1	31.0
5°	60.1	56.2	48.5	39.8	32.0	24.2	20.4	18.4	17.5	18.4	19.4
7.5°	72.7	67.9	58.2	47.5	37.8	30.1	25.2	20.4	17.5	17.5	18.4
10°	81.4	75.6	64.0	52.4	42.7	33.9	28.1	23.3	20.4	18.4	18.4
12.5°	91.1	83.4	67.9	55.3	44.6	36.8	31.0	26.2	23.3	21.3	21.3
15°	101.8	93.1	74.7	58.2	47.5	38.8	33.9	29.1	25.2	23.3	23.3
17.5°	119.3	104.7	78.5	61.1	49.4	40.7	34.9	30.1	26.2	24.2	24.2
20°	127.0	110.5	79.5	64.0	52.4	42.7	35.9	30.1	27.1	25.2	25.2
22.5°	127.0	109.6	81.4	65.9	55.3	44.6	36.8	31.0	27.1	25.2	25.2
25°	160.0	120.2	83.4	70.8	58.2	46.5	38.8	32.0	28.1	26.2	26.2
27.5°	224.0	157.1	96.0	75.6	62.1	49.4	40.7	33.9	29.1	27.1	27.1
30°	246.3	175.5	109.6	88.2	67.9	52.4	42.7	35.9	31.0	28.1	28.1
32.5°	251.1	172.6	117.3	97.0	77.6	57.2	44.6	37.8	32.0	29.1	29.1
35°	226.9	160.0	117.3	100.8	83.4	64.0	49.4	39.8	33.0	30.1	29.1
37.5°	264.7	172.6	120.2	101.8	86.3	68.8	55.3	42.7	34.9	31.0	31.0
40°	342.2	204.6	134.8	107.6	87.3	71.7	61.1	47.5	37.8	33.0	33.0
42.5°	400.4	230.8	150.3	122.2	95.0	75.6	63.0	51.4	41.7	35.9	34.9
45°	449.9	256.0	163.9	135.7	108.6	84.3	66.9	55.3	45.6	39.8	38.8
47.5°	458.6	268.6	174.5	149.3	119.3	93.1	72.7	59.1	50.4	43.6	42.7
50°	443.1	269.5	178.4	158.0	130.9	102.8	79.5	64.0	54.3	47.5	47.5
52.5°	633.1	336.4	195.8	162.9	134.8	110.5	88.2	69.8	58.2	52.4	52.4
55°	1142.1	543.9	253.0	192.9	144.5	116.3	96.0	78.5	64.0	57.2	57.2
57.5°	1846.0	849.3	334.5	257.9	186.2	134.8	104.7	87.3	71.7	62.1	62.1
60°	2446.1	1198.3	407.2	314.1	244.3	185.2	127.0	98.9	80.5	68.8	67.9
62.5°	2816.5	1512.5	449.9	335.5	279.2	234.6	170.6	124.1	91.1	78.5	76.6
65°	2734.1	1669.5	468.3	333.5	277.3	250.1	203.6	154.2	109.6	90.2	87.3
67.5°	2511.1	1670.5	465.4	319.0	262.7	237.5	202.6	166.8	127.0	101.8	97.9
70°	2399.6	1641.4	450.8	308.3	251.1	222.0	188.1	153.2	125.1	108.6	106.6
72.5°	2346.3	1622.0	442.1	306.4	249.2	216.2	178.4	136.7	112.5	103.7	105.7
75°	2358.9	1633.7	446.0	309.3	253.0	219.1	174.5	127.0	98.9	89.2	91.1
77.5°	2330.8	1610.4	451.8	308.3	251.1	214.3	162.9	116.3	90.2	80.5	79.5
80°	2354.0	1560.0	438.2	298.6	236.6	194.9	144.5	103.7	82.4	75.6	74.7
82.5°	2175.6	1358.3	389.8	272.4	214.3	167.7	121.2	91.1	77.6	69.8	69.8
85°	1994.3	1101.4	334.5	239.5	176.5	131.9	97.0	79.5	67.9	62.1	62.1
87.5°	1513.4	789.2	258.9	196.8	147.4	113.4	88.2	76.6	66.9	63.0	62.1
90°	935.6	486.7	192.9	157.1	125.1	100.8	83.4	73.7	65.9	63.0	63.0
92.5°	523.6	311.2	149.3	128.9	107.6	90.2	76.6	66.9	60.1	57.2	57.2
95°	354.9	232.7	128.0	115.4	96.0	79.5	66.9	58.2	52.4	48.5	48.5
97.5°	256.9	183.2	113.4	103.7	86.3	69.8	59.1	50.4	45.6	43.6	43.6
100°	196.8	148.3	102.8	93.1	76.6	61.1	51.4	43.6	38.8	36.8	36.8
102.5°	158.0	125.1	93.1	84.3	67.9	54.3	43.6	35.9	32.0	31.0	30.1
105°	142.5	116.3	87.3	78.5	62.1	49.4	38.8	32.0	28.1	26.2	26.2
107.5°	138.6	116.3	86.3	76.6	59.1	46.5	34.9	29.1	25.2	23.3	23.3
110°	147.4	123.1	87.3	74.7	55.3	42.7	32.0	26.2	22.3	21.3	21.3



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CATALOG NUMBER: ARC-CA6-90-740-U-33-X-5-X-GHSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	152.2	124.1	83.4	69.8	51.4	38.8	30.1	24.2	21.3	19.4	19.4
115°	139.6	111.5	76.6	62.1	45.6	34.9	28.1	23.3	19.4	17.5	17.5
117.5°	134.8	104.7	74.7	54.3	41.7	32.0	26.2	21.3	18.4	16.5	16.5
120°	134.8	101.8	65.9	47.5	37.8	29.1	24.2	19.4	16.5	15.5	15.5
122.5°	129.9	94.0	58.2	41.7	33.0	25.2	21.3	17.5	15.5	13.6	13.6
125°	118.3	87.3	47.5	37.8	30.1	23.3	19.4	16.5	13.6	12.6	12.6
127.5°	111.5	86.3	44.6	34.9	27.1	21.3	17.5	14.5	11.6	10.7	10.7
130°	110.5	86.3	41.7	31.0	24.2	18.4	15.5	12.6	10.7	9.7	9.7
132.5°	98.9	78.5	39.8	29.1	22.3	17.5	14.5	11.6	9.7	8.7	8.7
135°	89.2	72.7	38.8	27.1	20.4	15.5	12.6	10.7	7.8	7.8	7.8
137.5°	82.4	66.9	38.8	25.2	18.4	13.6	11.6	9.7	6.8	6.8	6.8
140°	77.6	62.1	37.8	24.2	16.5	12.6	10.7	7.8	5.8	5.8	5.8
142.5°	72.7	58.2	34.9	23.3	15.5	10.7	9.7	7.8	5.8	4.8	4.8
145°	66.9	53.3	31.0	21.3	14.5	9.7	8.7	6.8	4.8	3.9	3.9
147.5°	61.1	47.5	27.1	18.4	13.6	8.7	7.8	5.8	3.9	3.9	3.9
150°	52.4	40.7	24.2	16.5	11.6	7.8	6.8	4.8	3.9	2.9	2.9
152.5°	42.7	34.9	21.3	14.5	10.7	6.8	5.8	3.9	2.9	1.9	1.9
155°	37.8	31.0	19.4	12.6	8.7	5.8	4.8	2.9	2.9	1.9	1.9
157.5°	33.0	27.1	17.5	10.7	6.8	3.9	3.9	2.9	1.9	1.9	1.0
160°	27.1	23.3	14.5	8.7	5.8	2.9	2.9	1.9	1.9	1.0	1.0
162.5°	21.3	17.5	10.7	6.8	3.9	1.9	1.9	1.9	1.9	1.0	0.0
165°	14.5	12.6	7.8	4.8	2.9	1.0	1.0	1.9	1.0	1.0	0.0
167.5°	9.7	7.8	4.8	2.9	1.9	0.0	1.0	1.0	1.0	1.0	0.0
170°	3.9	3.9	2.9	1.9	0.0	0.0	0.0	1.0	1.0	1.0	0.0
172.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0
175°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0
177.5°	1.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0	0.0
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

(END OF REPORT)