

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: P588590

Luminaire Tested: **ARC-CA6-120-727-U-33-X-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588590
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-CA6-120-727-U-33-X-5-X-GHSS
Description: GENERATIONS SERIES AVENUE WITH NO CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD
Light Source: (3) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7417 lumens
Efficiency: N/A
Efficacy: 124.0 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

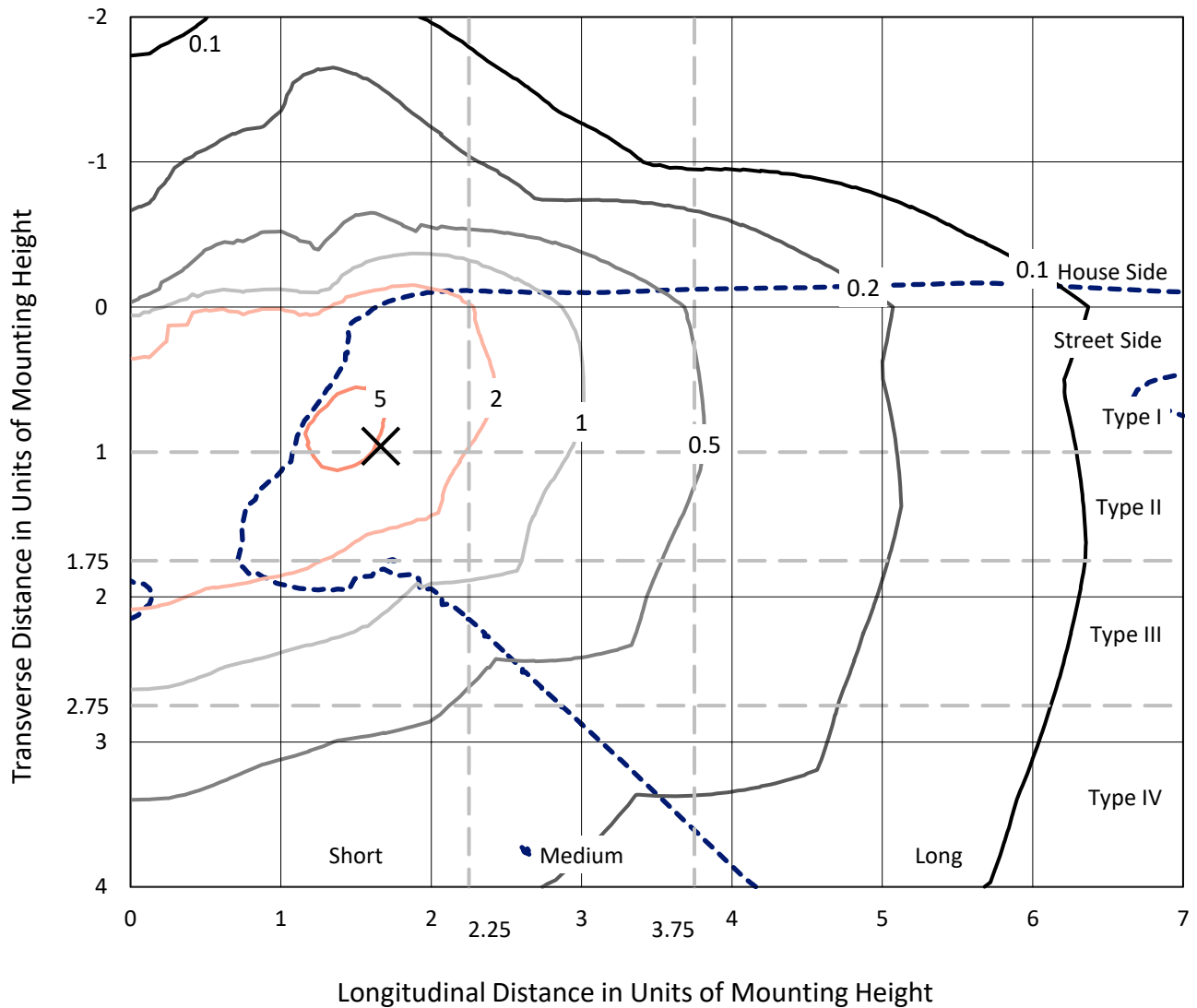
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

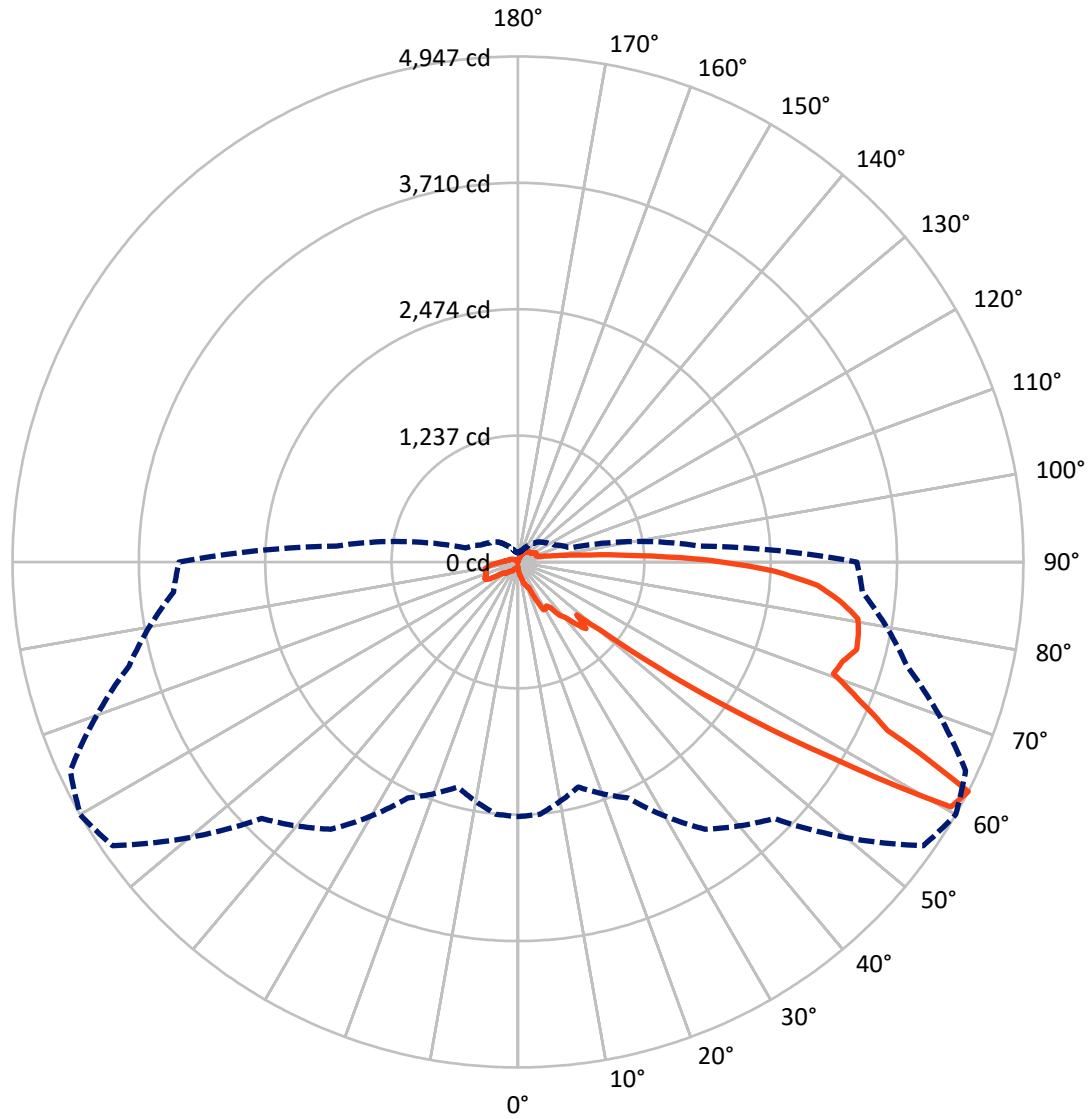
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 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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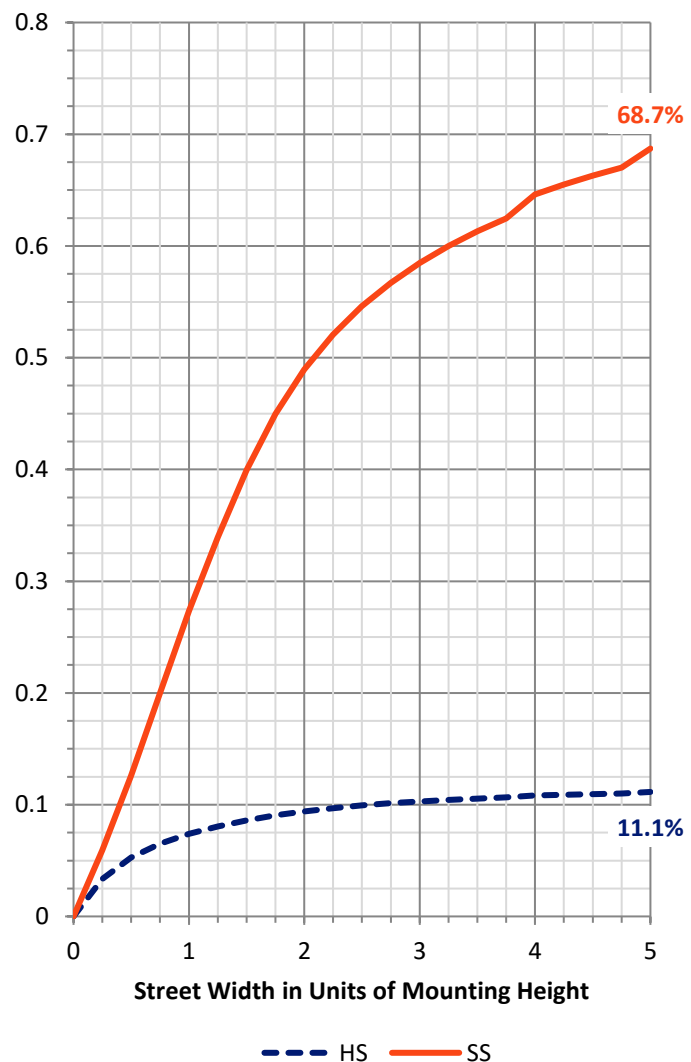
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	870.1	173.5	1043.6
	% Fixture	11.7	2.3	14.1
Street Side	Lumens	5665.5	707.9	6373.4
	% Fixture	76.4	9.5	85.9
Total	Lumens	6535.6	881.4	7417.0
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	0.1
10°-20°	35.7	0.5
20°-30°	106.0	1.4
30°-40°	213.1	2.9
40°-50°	375.1	5.1
50°-60°	1035.5	14.0
60°-70°	1790.3	24.1
70°-80°	1661.8	22.4
80°-90°	1310.4	17.7
90°-100°	415.8	5.6
100°-110°	148.3	2.0
110°-120°	121.9	1.6
120°-130°	80.2	1.1
130°-140°	57.1	0.8
140°-150°	36.9	0.5
150°-160°	17.0	0.2
160°-170°	4.2	0.1
170°-180°	0.2	0.0
0°-90°	6535.6	88.1
0°-180°	7417.0	100.0

Coefficient of Utilization



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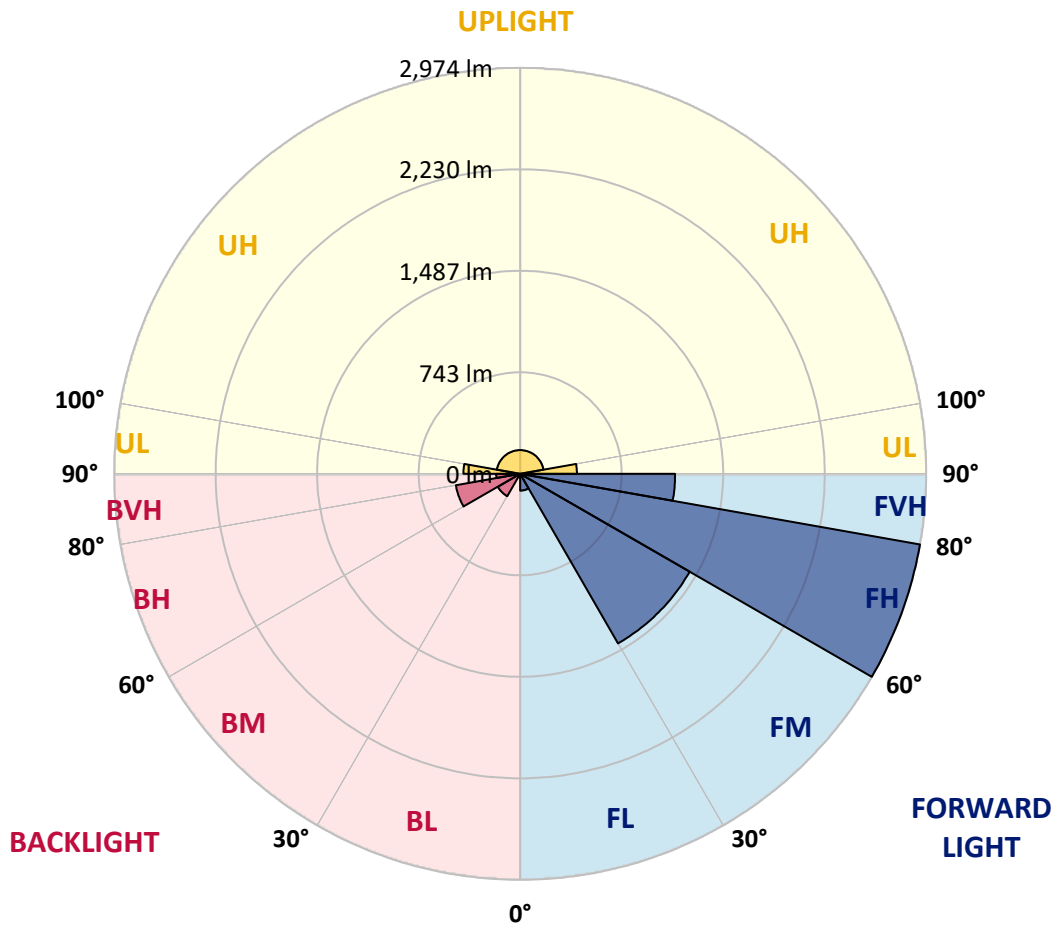
CATALOG NUMBER: ARC-CA6-120-727-U-33-X-5-X-GHSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	123.1	1.7			
FM (30°-60°)	1434.2	19.3			
FH (60°-80°)	2973.6	40.1			G2/5000
FVH (80°-90°)	1134.7	15.3			G5
BL (0°-30°)	26.3	0.4	B0/110		
BM (30°-60°)	189.5	2.6	B0/220		
BH (60°-80°)	478.6	6.5	B1/500		G1/500
BVH (80°-90°)	175.7	2.4			G2/225
UL (90°-100°)	415.8	5.6		U3/500	
UH (100°-180°)	173.5	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°	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
2.5°	87.9	85.6	86.7	86.7	87.9	83.3	78.8	75.3	71.9	67.3	61.6
5°	125.6	123.3	119.9	118.7	116.4	111.9	105.0	102.7	95.9	86.7	75.3
7.5°	153.0	151.8	150.7	147.2	145.0	138.1	130.1	126.7	118.7	106.2	92.5
10°	173.5	173.5	174.6	168.9	158.7	153.0	146.1	143.8	138.1	121.0	103.9
12.5°	190.6	188.3	179.2	174.6	170.1	171.2	172.4	171.2	168.9	140.4	116.4
15°	206.6	204.3	197.5	191.8	188.3	199.8	224.9	222.6	221.4	176.9	135.8
17.5°	218.0	218.0	224.9	229.4	235.1	218.0	213.4	220.3	228.3	195.2	154.1
20°	251.1	246.6	240.8	236.3	264.8	252.3	256.8	264.8	270.5	218.0	168.9
22.5°	236.3	237.4	262.5	271.7	258.0	251.1	267.1	270.5	271.7	250.0	175.8
25°	323.0	308.2	299.1	327.6	325.3	375.5	390.4	400.6	400.6	339.0	245.4
27.5°	446.3	446.3	485.1	560.4	547.9	549.0	531.9	530.8	552.5	573.0	373.3
30°	484.0	496.5	605.0	642.6	683.7	632.4	576.4	533.1	542.2	652.9	434.9
32.5°	495.4	506.8	638.1	597.0	611.8	591.3	599.3	511.4	489.7	601.5	423.5
35°	432.6	448.6	555.9	503.4	474.8	536.5	610.7	547.9	537.6	494.2	383.5
37.5°	577.6	585.6	623.2	615.2	624.4	627.8	716.8	659.8	671.2	597.0	485.1
40°	663.2	654.0	801.3	836.7	823.0	810.4	802.4	714.5	728.2	691.7	656.3
42.5°	815.0	804.7	908.6	930.3	933.7	900.6	938.3	827.5	793.3	718.0	817.3
45°	825.3	831.0	929.1	873.2	931.4	991.9	1060.4	932.6	870.9	744.2	949.7
47.5°	730.5	755.6	971.4	922.3	865.2	811.6	837.8	772.8	722.5	589.0	913.2
50°	745.4	755.6	893.7	835.5	695.1	860.6	1091.2	1044.4	989.6	730.5	880.0
52.5°	1054.7	1050.1	1110.6	1114.0	1149.4	1292.1	1747.5	1709.9	1719.0	1422.2	1310.4
55°	1446.2	1443.9	1596.9	1841.1	2043.2	2112.8	2707.5	2559.1	2491.8	2204.1	2313.7
57.5°	1869.7	1889.1	1956.4	2298.9	2644.7	2734.9	3666.3	3589.8	3441.4	2875.3	3167.5
60°	2316.0	2304.6	2205.3	2430.1	2983.7	3433.4	4830.6	4867.1	4571.5	3619.5	3457.4
62.5°	2491.8	2476.9	2279.5	2547.7	3192.6	3549.9	4842.0	4947.0	4834.0	3941.4	3384.4
65°	2462.1	2427.8	2165.3	2376.5	2694.9	3020.2	4322.6	3974.5	4159.4	4030.4	3199.5
67.5°	2345.7	2337.7	2093.4	2209.8	2417.6	2459.8	3948.2	3596.7	3662.9	4110.3	3254.2
70°	2199.6	2197.3	2012.4	2100.2	2395.9	2352.5	3654.9	3277.1	3238.3	3678.9	3267.9
72.5°	2204.1	2201.8	1997.5	2027.2	2344.5	2273.7	3624.1	3322.7	3252.0	3466.6	3110.4
75°	2241.8	2244.1	2027.2	2060.3	2416.4	2289.7	3697.1	3424.3	3352.4	3446.0	2984.9
77.5°	2205.3	2223.5	2010.1	2084.3	2462.1	2287.4	3662.9	3404.9	3303.3	3277.1	2745.2
80°	2083.1	2108.2	1916.5	2002.1	2421.0	2318.3	3634.3	3375.2	3246.3	3102.4	2572.8
82.5°	1827.4	1853.7	1706.5	1785.2	2252.1	2191.6	3434.6	3183.5	3068.2	2817.1	2347.9
85°	1570.6	1631.1	1559.2	1570.6	1988.4	2006.7	3165.2	2943.8	2863.9	2644.7	2271.5
87.5°	1296.7	1349.2	1281.8	1200.8	1489.6	1594.6	2617.3	2507.7	2486.1	2334.2	1971.3
90°	960.0	1007.9	967.9	861.8	1009.0	1075.2	1929.0	1868.5	1915.3	1741.8	1354.9
92.5°	696.3	704.3	657.5	569.6	672.3	704.3	1264.7	1172.3	1227.0	1067.2	794.4
95°	465.7	485.1	448.6	410.9	487.4	490.8	779.6	711.1	681.4	613.0	474.8
97.5°	341.3	342.4	328.7	294.5	342.4	347.0	518.2	466.8	440.6	412.1	328.7
100°	270.5	270.5	250.0	228.3	238.6	247.7	360.7	325.3	311.6	299.1	247.7
102.5°	236.3	235.1	218.0	196.3	195.2	199.8	272.8	248.8	238.6	230.6	195.2
105°	223.7	222.6	205.5	182.6	176.9	173.5	227.1	211.2	204.3	197.5	175.8
107.5°	221.4	219.2	202.0	181.5	172.4	163.2	204.3	190.6	191.8	184.9	168.9
110°	223.7	223.7	208.9	196.3	181.5	168.9	205.5	190.6	195.2	192.9	175.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	218.0	223.7	218.0	210.0	194.0	183.8	214.6	197.5	203.2	203.2	181.5
115°	205.5	211.2	211.2	203.2	188.3	184.9	212.3	197.5	199.8	196.3	168.9
117.5°	188.3	191.8	189.5	180.3	167.8	165.5	197.5	190.6	190.6	180.3	157.5
120°	175.8	168.9	159.8	153.0	146.1	151.8	178.1	171.2	165.5	160.9	143.8
122.5°	157.5	149.5	139.3	135.8	131.3	139.3	162.1	156.4	150.7	148.4	135.8
125°	130.1	130.1	125.6	123.3	122.1	133.5	159.8	154.1	146.1	141.5	126.7
127.5°	125.6	125.6	122.1	119.9	121.0	134.7	156.4	150.7	141.5	135.8	122.1
130°	126.7	124.4	119.9	116.4	117.6	133.5	155.2	148.4	139.3	134.7	122.1
132.5°	119.9	117.6	114.1	111.9	110.7	126.7	147.2	143.8	137.0	126.7	113.0
135°	116.4	114.1	111.9	110.7	110.7	123.3	140.4	137.0	130.1	118.7	103.9
137.5°	115.3	113.0	108.4	107.3	106.2	117.6	131.3	129.0	122.1	111.9	99.3
140°	109.6	106.2	102.7	101.6	101.6	110.7	124.4	122.1	115.3	107.3	95.9
142.5°	101.6	99.3	95.9	95.9	97.0	106.2	121.0	119.9	111.9	102.7	92.5
145°	97.0	94.7	92.5	93.6	94.7	102.7	114.1	113.0	107.3	99.3	89.0
147.5°	89.0	87.9	85.6	84.5	86.7	93.6	106.2	106.2	102.7	92.5	82.2
150°	77.6	76.5	74.2	73.1	75.3	82.2	92.5	92.5	89.0	78.8	69.6
152.5°	65.1	63.9	63.9	65.1	67.3	70.8	79.9	81.0	77.6	67.3	59.4
155°	57.1	55.9	55.9	57.1	60.5	63.9	69.6	69.6	66.2	59.4	51.4
157.5°	49.1	47.9	47.9	49.1	52.5	54.8	60.5	59.4	57.1	51.4	44.5
160°	37.7	36.5	36.5	37.7	41.1	43.4	47.9	47.9	46.8	43.4	37.7
162.5°	28.5	27.4	27.4	28.5	30.8	32.0	35.4	36.5	36.5	34.2	29.7
165°	21.7	20.5	20.5	20.5	22.8	24.0	25.1	25.1	25.1	24.0	20.5
167.5°	13.7	12.6	12.6	13.7	14.8	14.8	16.0	16.0	14.8	14.8	12.6
170°	6.8	5.7	5.7	6.8	6.8	6.8	5.7	4.6	4.6	4.6	4.6
172.5°	2.3	1.1	3.4	3.4	2.3	0.0	0.0	1.1	1.1	1.1	0.0
175°	2.3	1.1	3.4	3.4	2.3	0.0	0.0	1.1	0.0	1.1	0.0
177.5°	1.1	1.1	3.4	3.4	2.3	0.0	0.0	0.0	0.0	1.1	0.0
180°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
2.5°	59.4	58.2	53.6	46.8	40.0	33.1	32.0	33.1	34.2	35.4	36.5
5°	70.8	66.2	57.1	46.8	37.7	28.5	24.0	21.7	20.5	21.7	22.8
7.5°	85.6	79.9	68.5	55.9	44.5	35.4	29.7	24.0	20.5	20.5	21.7
10°	95.9	89.0	75.3	61.6	50.2	40.0	33.1	27.4	24.0	21.7	21.7
12.5°	107.3	98.2	79.9	65.1	52.5	43.4	36.5	30.8	27.4	25.1	25.1
15°	119.9	109.6	87.9	68.5	55.9	45.7	40.0	34.2	29.7	27.4	27.4
17.5°	140.4	123.3	92.5	71.9	58.2	47.9	41.1	35.4	30.8	28.5	28.5
20°	149.5	130.1	93.6	75.3	61.6	50.2	42.2	35.4	32.0	29.7	29.7
22.5°	149.5	129.0	95.9	77.6	65.1	52.5	43.4	36.5	32.0	29.7	29.7
25°	188.3	141.5	98.2	83.3	68.5	54.8	45.7	37.7	33.1	30.8	30.8
27.5°	263.7	184.9	113.0	89.0	73.1	58.2	47.9	40.0	34.2	32.0	32.0
30°	289.9	206.6	129.0	103.9	79.9	61.6	50.2	42.2	36.5	33.1	33.1
32.5°	295.6	203.2	138.1	114.1	91.3	67.3	52.5	44.5	37.7	34.2	34.2
35°	267.1	188.3	138.1	118.7	98.2	75.3	58.2	46.8	38.8	35.4	34.2
37.5°	311.6	203.2	141.5	119.9	101.6	81.0	65.1	50.2	41.1	36.5	36.5
40°	402.9	240.8	158.7	126.7	102.7	84.5	71.9	55.9	44.5	38.8	38.8
42.5°	471.4	271.7	176.9	143.8	111.9	89.0	74.2	60.5	49.1	42.2	41.1
45°	529.6	301.3	192.9	159.8	127.8	99.3	78.8	65.1	53.6	46.8	45.7
47.5°	539.9	316.2	205.5	175.8	140.4	109.6	85.6	69.6	59.4	51.4	50.2
50°	521.6	317.3	210.0	186.1	154.1	121.0	93.6	75.3	63.9	55.9	55.9
52.5°	745.4	396.1	230.6	191.8	158.7	130.1	103.9	82.2	68.5	61.6	61.6
55°	1344.6	640.3	297.9	227.1	170.1	137.0	113.0	92.5	75.3	67.3	67.3
57.5°	2173.3	999.9	393.8	303.6	219.2	158.7	123.3	102.7	84.5	73.1	73.1
60°	2879.9	1410.8	479.4	369.8	287.6	218.0	149.5	116.4	94.7	81.0	79.9
62.5°	3315.9	1780.6	529.6	394.9	328.7	276.2	200.9	146.1	107.3	92.5	90.2
65°	3218.9	1965.6	551.3	392.7	326.5	294.5	239.7	181.5	129.0	106.2	102.7
67.5°	2956.3	1966.7	547.9	375.5	309.3	279.7	238.6	196.3	149.5	119.9	115.3
70°	2825.1	1932.5	530.8	363.0	295.6	261.4	221.4	180.3	147.2	127.8	125.6
72.5°	2762.3	1909.6	520.5	360.7	293.3	254.5	210.0	160.9	132.4	122.1	124.4
75°	2777.1	1923.3	525.1	364.1	297.9	258.0	205.5	149.5	116.4	105.0	107.3
77.5°	2744.0	1895.9	531.9	363.0	295.6	252.3	191.8	137.0	106.2	94.7	93.6
80°	2771.4	1836.6	515.9	351.6	278.5	229.4	170.1	122.1	97.0	89.0	87.9
82.5°	2561.4	1599.2	458.9	320.7	252.3	197.5	142.7	107.3	91.3	82.2	82.2
85°	2347.9	1296.7	393.8	281.9	207.7	155.2	114.1	93.6	79.9	73.1	73.1
87.5°	1781.8	929.1	304.8	231.7	173.5	133.5	103.9	90.2	78.8	74.2	73.1
90°	1101.5	573.0	227.1	184.9	147.2	118.7	98.2	86.7	77.6	74.2	74.2
92.5°	616.4	366.4	175.8	151.8	126.7	106.2	90.2	78.8	70.8	67.3	67.3
95°	417.8	273.9	150.7	135.8	113.0	93.6	78.8	68.5	61.6	57.1	57.1
97.5°	302.5	215.7	133.5	122.1	101.6	82.2	69.6	59.4	53.6	51.4	51.4
100°	231.7	174.6	121.0	109.6	90.2	71.9	60.5	51.4	45.7	43.4	43.4
102.5°	186.1	147.2	109.6	99.3	79.9	63.9	51.4	42.2	37.7	36.5	35.4
105°	167.8	137.0	102.7	92.5	73.1	58.2	45.7	37.7	33.1	30.8	30.8
107.5°	163.2	137.0	101.6	90.2	69.6	54.8	41.1	34.2	29.7	27.4	27.4
110°	173.5	145.0	102.7	87.9	65.1	50.2	37.7	30.8	26.3	25.1	25.1



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CATALOG NUMBER: ARC-CA6-120-727-U-33-X-5-X-GHSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	179.2	146.1	98.2	82.2	60.5	45.7	35.4	28.5	25.1	22.8	22.8
115°	164.4	131.3	90.2	73.1	53.6	41.1	33.1	27.4	22.8	20.5	20.5
117.5°	158.7	123.3	87.9	63.9	49.1	37.7	30.8	25.1	21.7	19.4	19.4
120°	158.7	119.9	77.6	55.9	44.5	34.2	28.5	22.8	19.4	18.3	18.3
122.5°	153.0	110.7	68.5	49.1	38.8	29.7	25.1	20.5	18.3	16.0	16.0
125°	139.3	102.7	55.9	44.5	35.4	27.4	22.8	19.4	16.0	14.8	14.8
127.5°	131.3	101.6	52.5	41.1	32.0	25.1	20.5	17.1	13.7	12.6	12.6
130°	130.1	101.6	49.1	36.5	28.5	21.7	18.3	14.8	12.6	11.4	11.4
132.5°	116.4	92.5	46.8	34.2	26.3	20.5	17.1	13.7	11.4	10.3	10.3
135°	105.0	85.6	45.7	32.0	24.0	18.3	14.8	12.6	9.1	9.1	9.1
137.5°	97.0	78.8	45.7	29.7	21.7	16.0	13.7	11.4	8.0	8.0	8.0
140°	91.3	73.1	44.5	28.5	19.4	14.8	12.6	9.1	6.8	6.8	6.8
142.5°	85.6	68.5	41.1	27.4	18.3	12.6	11.4	9.1	6.8	5.7	5.7
145°	78.8	62.8	36.5	25.1	17.1	11.4	10.3	8.0	5.7	4.6	4.6
147.5°	71.9	55.9	32.0	21.7	16.0	10.3	9.1	6.8	4.6	4.6	4.6
150°	61.6	47.9	28.5	19.4	13.7	9.1	8.0	5.7	4.6	3.4	3.4
152.5°	50.2	41.1	25.1	17.1	12.6	8.0	6.8	4.6	3.4	2.3	2.3
155°	44.5	36.5	22.8	14.8	10.3	6.8	5.7	3.4	3.4	2.3	2.3
157.5°	38.8	32.0	20.5	12.6	8.0	4.6	4.6	3.4	2.3	2.3	1.1
160°	32.0	27.4	17.1	10.3	6.8	3.4	3.4	2.3	2.3	1.1	1.1
162.5°	25.1	20.5	12.6	8.0	4.6	2.3	2.3	2.3	2.3	1.1	0.0
165°	17.1	14.8	9.1	5.7	3.4	1.1	1.1	2.3	1.1	1.1	0.0
167.5°	11.4	9.1	5.7	3.4	2.3	0.0	1.1	1.1	1.1	1.1	0.0
170°	4.6	4.6	3.4	2.3	0.0	0.0	0.0	1.1	1.1	1.1	0.0
172.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	1.1	1.1	1.1	0.0
175°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	1.1	1.1	1.1	0.0
177.5°	1.1	1.1	1.1	1.1	0.0	0.0	1.1	1.1	1.1	1.1	0.0
180°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

(END OF REPORT)