

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: P588596

Luminaire Tested: **ARC-CA6-120-750-U-33-X-5-X-GHSS**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588596  
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-CA6-120-750-U-33-X-5-X-GHSS  
Description: GENERATIONS SERIES AVENUE WITH NO CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD  
Light Source: (3) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

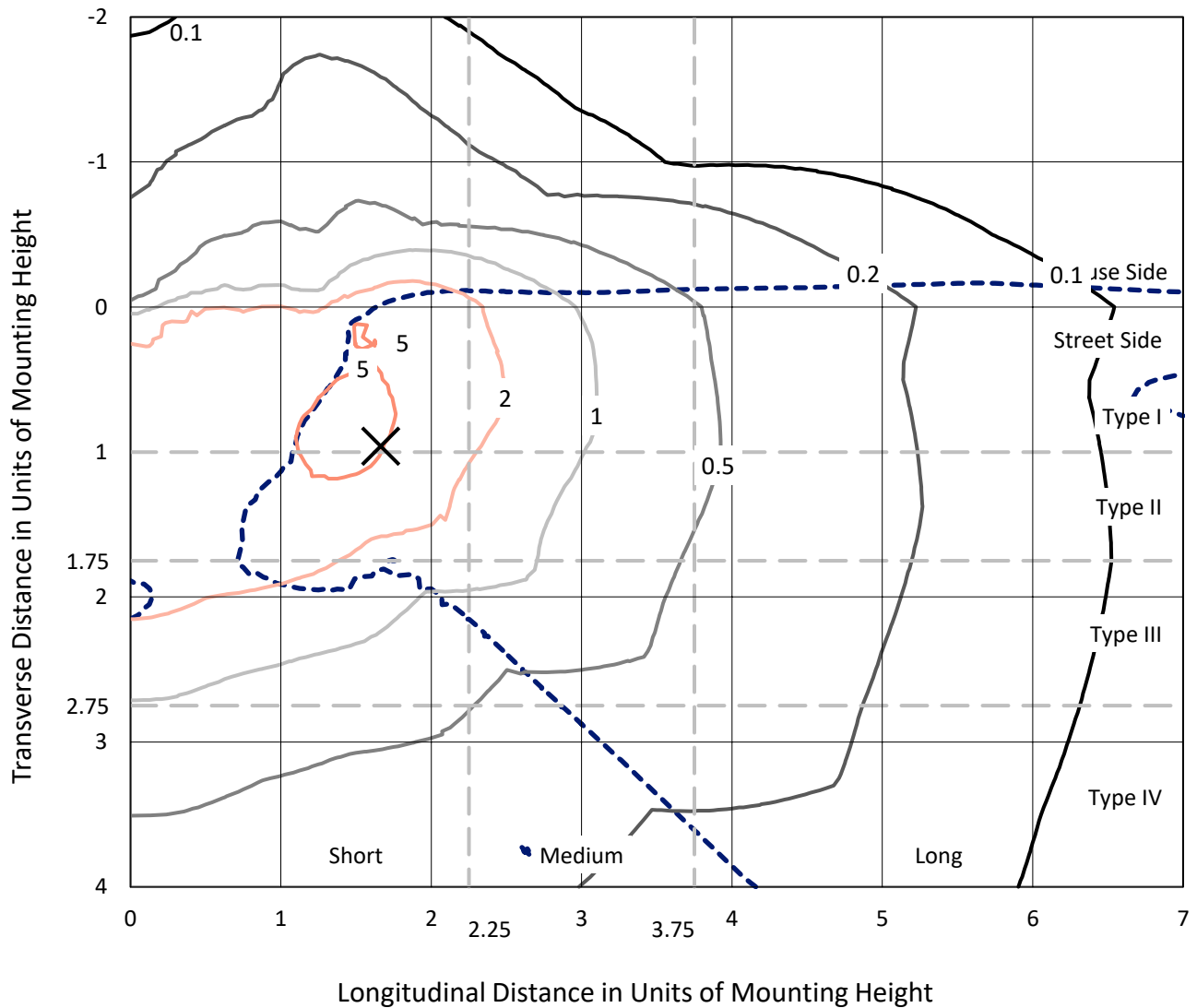
Lumens per Lamp: N/A  
Luminaire Lumens: 8079 lumens  
Efficiency: N/A  
Efficacy: 135.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.08')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B2 - U4 - G5  
  
Input Watts (W): 59.8  
Input Voltage (V): 120  
Input 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



REPORT NUMBER: P588596  
 CATALOG NUMBER: ARC-CA6-120-750-U-33-X-5-X-GHSS

### Iso-Footcandle Lines of Horizontal Illumination

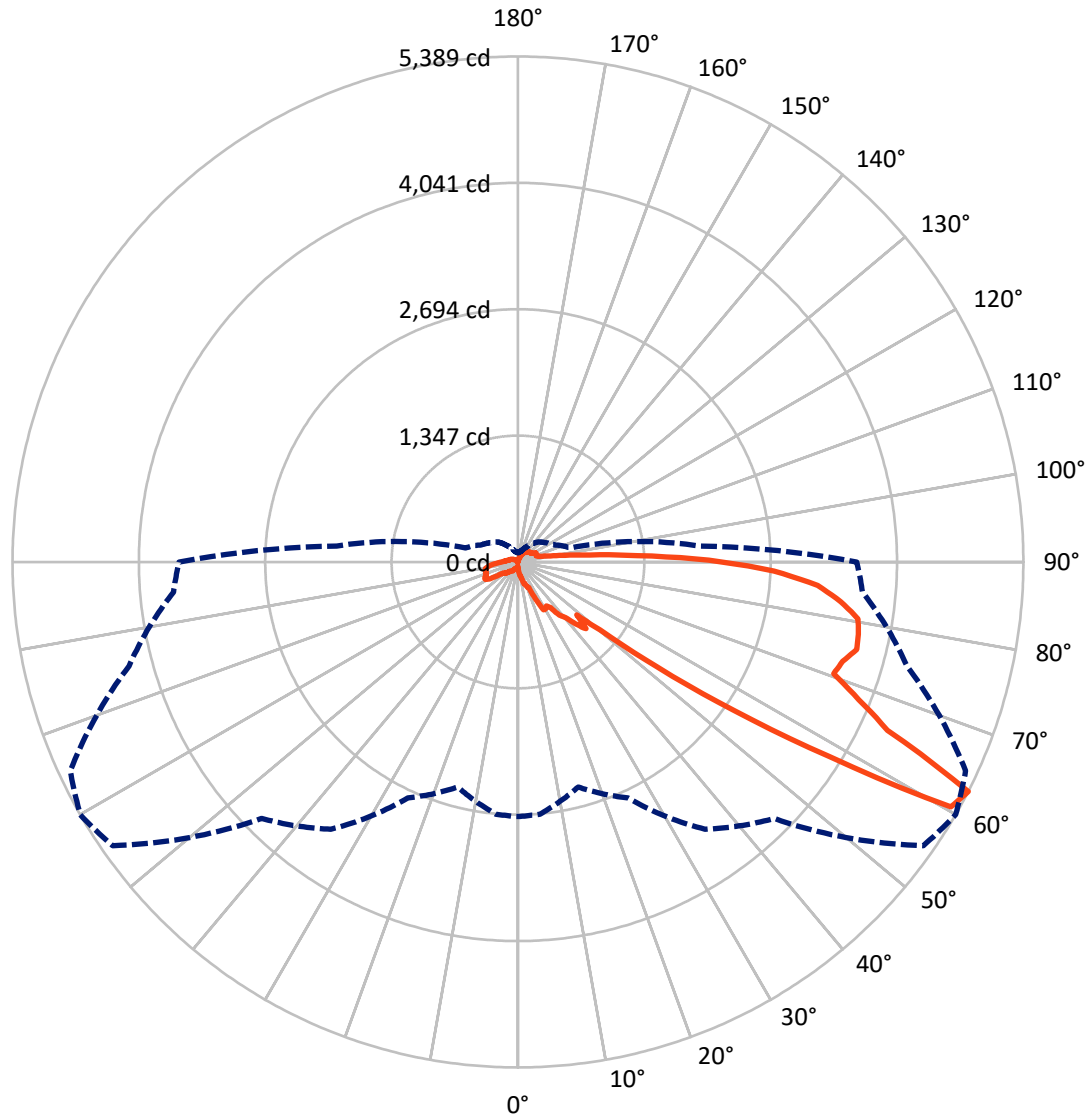
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 fc  
 Type III - Short - Non-Cutoff

REPORT NUMBER: P588596  
CATALOG NUMBER: ARC-CA6-120-750-U-33-X-5-X-GHSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P588596  
 CATALOG NUMBER: ARC-CA6-120-750-U-33-X-5-X-GHSS

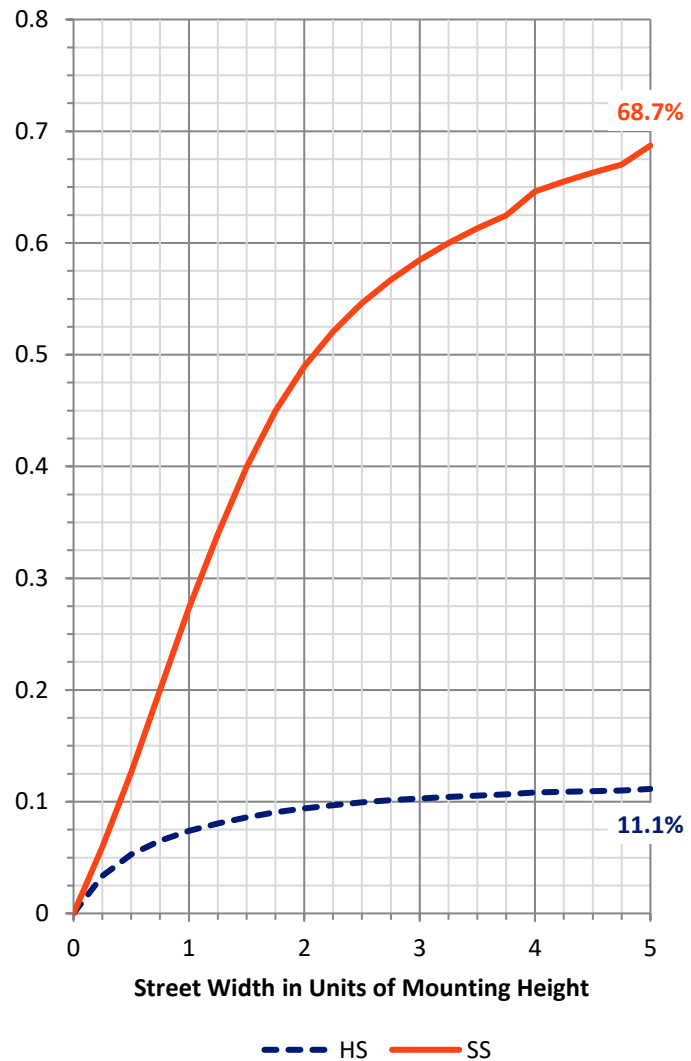
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	947.8	189.0	1136.7
	% Fixture	11.7	2.3	14.1
<b>Street Side</b>	Lumens	6171.2	771.1	6942.3
	% Fixture	76.4	9.5	85.9
<b>Total</b>	Lumens	7118.9	960.1	8079.0
	% Fixture	88.1	11.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.4	0.1
10°-20°	38.8	0.5
20°-30°	115.5	1.4
30°-40°	232.1	2.9
40°-50°	408.5	5.1
50°-60°	1127.9	14.0
60°-70°	1950.1	24.1
70°-80°	1810.2	22.4
80°-90°	1427.3	17.7
90°-100°	452.9	5.6
100°-110°	161.6	2.0
110°-120°	132.7	1.6
120°-130°	87.3	1.1
130°-140°	62.2	0.8
140°-150°	40.2	0.5
150°-160°	18.5	0.2
160°-170°	4.6	0.1
170°-180°	0.2	0.0
0°-90°	7118.9	88.1
0°-180°	8079.0	100.0



REPORT NUMBER: P588596

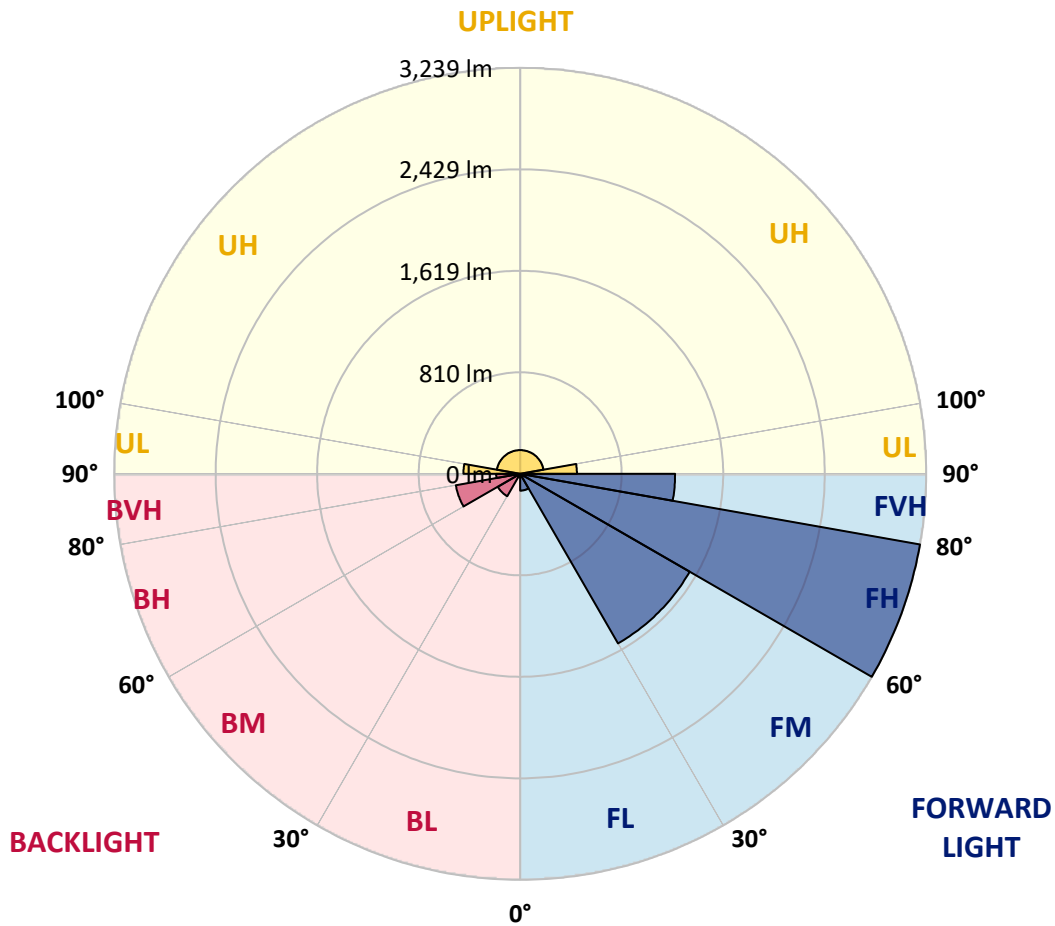
CATALOG NUMBER: ARC-CA6-120-750-U-33-X-5-X-GHSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	134.1	1.7			
FM (30°-60°)	1562.2	19.3			
FH (60°-80°)	3239.0	40.1			G2/5000
FVH (80°-90°)	1235.9	15.3			G5
BL (0°-30°)	28.7	0.4	B0/110		
BM (30°-60°)	206.4	2.6	B0/220		
BH (60°-80°)	521.3	6.5	B2/1000		G2/1000
BVH (80°-90°)	191.4	2.4			G2/225
UL (90°-100°)	452.9	5.6		U3/500	
UH (100°-180°)	189.0	2.3		U3/500	

**BUG Rating: B2-U4-G5**

Type III Short





REPORT NUMBER: P588596  
 CATALOG NUMBER: ARC-CA6-120-750-U-33-X-5-X-GHSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
2.5°	95.7	93.2	94.5	94.5	95.7	90.8	85.8	82.1	78.3	73.4	67.1
5°	136.8	134.3	130.5	129.3	126.8	121.8	114.4	111.9	104.4	94.5	82.1
7.5°	166.6	165.4	164.1	160.4	157.9	150.4	141.7	138.0	129.3	115.6	100.7
10°	189.0	189.0	190.2	184.0	172.8	166.6	159.1	156.7	150.4	131.8	113.1
12.5°	207.6	205.1	195.2	190.2	185.3	186.5	187.7	186.5	184.0	152.9	126.8
15°	225.0	222.6	215.1	208.9	205.1	217.6	244.9	242.4	241.2	192.7	148.0
17.5°	237.5	237.5	244.9	249.9	256.1	237.5	232.5	240.0	248.7	212.6	167.8
20°	273.5	268.6	262.3	257.4	288.4	274.8	279.7	288.4	294.7	237.5	184.0
22.5°	257.4	258.6	286.0	295.9	281.0	273.5	290.9	294.7	295.9	272.3	191.5
25°	351.9	335.7	325.7	356.8	354.3	409.1	425.2	436.4	436.4	369.3	267.3
27.5°	486.1	486.1	528.4	610.5	596.8	598.0	579.4	578.1	601.8	624.1	406.6
30°	527.2	540.8	659.0	700.0	744.7	688.8	627.9	580.6	590.6	711.2	473.7
32.5°	539.6	552.0	695.0	650.3	666.4	644.0	652.7	557.0	533.4	655.2	461.3
35°	471.2	488.6	605.5	548.3	517.2	584.4	665.2	596.8	585.6	538.4	417.8
37.5°	629.1	637.8	678.9	670.1	680.1	683.8	780.8	718.6	731.1	650.3	528.4
40°	722.4	712.4	872.8	911.4	896.4	882.8	874.1	778.3	793.2	753.5	714.9
42.5°	887.7	876.5	989.7	1013.3	1017.0	981.0	1022.0	901.4	864.1	782.0	890.2
45°	898.9	905.1	1012.1	951.1	1014.5	1080.4	1155.0	1015.8	948.7	810.6	1034.4
47.5°	795.7	823.1	1058.1	1004.6	942.4	884.0	912.6	841.7	787.0	641.6	994.7
50°	811.9	823.1	973.5	910.1	757.2	937.5	1188.6	1137.6	1078.0	795.7	958.6
52.5°	1148.8	1143.9	1209.7	1213.5	1252.0	1407.4	1903.5	1862.5	1872.4	1549.2	1427.3
55°	1575.3	1572.8	1739.4	2005.5	2225.5	2301.4	2949.2	2787.5	2714.2	2400.8	2520.2
57.5°	2036.6	2057.7	2131.0	2504.0	2880.8	2979.0	3993.5	3910.2	3748.6	3131.9	3450.2
60°	2522.7	2510.3	2402.1	2647.0	3250.0	3739.9	5261.7	5301.5	4979.5	3942.6	3766.0
62.5°	2714.2	2698.0	2482.9	2775.1	3477.6	3866.7	5274.2	5388.5	5265.5	4293.2	3686.4
65°	2681.8	2644.5	2358.6	2588.6	2935.5	3289.8	4708.4	4329.2	4530.7	4390.2	3485.0
67.5°	2555.0	2546.3	2280.2	2407.1	2633.3	2679.4	4300.6	3917.7	3989.8	4477.2	3544.7
70°	2395.9	2393.4	2192.0	2287.7	2609.7	2562.5	3981.1	3569.6	3527.3	4007.2	3559.6
72.5°	2400.8	2398.4	2175.8	2208.1	2553.8	2476.7	3947.5	3619.3	3542.2	3776.0	3388.0
75°	2441.9	2444.4	2208.1	2244.2	2632.1	2494.1	4027.1	3730.0	3651.6	3753.6	3251.3
77.5°	2402.1	2422.0	2189.5	2270.3	2681.8	2491.6	3989.8	3708.8	3598.2	3569.6	2990.2
80°	2269.1	2296.4	2087.5	2180.8	2637.1	2525.2	3958.7	3676.5	3536.0	3379.3	2802.4
82.5°	1990.6	2019.1	1858.8	1944.5	2453.1	2387.2	3741.1	3467.6	3342.0	3068.5	2557.5
85°	1710.8	1776.7	1698.4	1710.8	2165.9	2185.8	3447.7	3206.5	3119.5	2880.8	2474.2
87.5°	1412.4	1469.6	1396.2	1308.0	1622.5	1736.9	2850.9	2731.6	2707.9	2542.6	2147.2
90°	1045.6	1097.8	1054.3	938.7	1099.1	1171.2	2101.2	2035.3	2086.3	1897.3	1475.8
92.5°	758.4	767.1	716.2	620.4	732.3	767.1	1377.6	1276.9	1336.6	1162.5	865.3
95°	507.3	528.4	488.6	447.6	530.9	534.6	849.2	774.6	742.3	667.7	517.2
97.5°	371.8	373.0	358.1	320.8	373.0	378.0	564.5	508.5	479.9	448.8	358.1
100°	294.7	294.7	272.3	248.7	259.9	269.8	392.9	354.3	339.4	325.7	269.8
102.5°	257.4	256.1	237.5	213.9	212.6	217.6	297.2	271.0	259.9	251.2	212.6
105°	243.7	242.4	223.8	198.9	192.7	189.0	247.4	230.0	222.6	215.1	191.5
107.5°	241.2	238.7	220.1	197.7	187.7	177.8	222.6	207.6	208.9	201.4	184.0
110°	243.7	243.7	227.5	213.9	197.7	184.0	223.8	207.6	212.6	210.1	191.5



REPORT NUMBER: P588596

CATALOG NUMBER: ARC-CA6-120-750-U-33-X-5-X-GHSS

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	237.5	243.7	237.5	228.8	211.4	200.2	233.7	215.1	221.3	221.3	197.7
115°	223.8	230.0	230.0	221.3	205.1	201.4	231.3	215.1	217.6	213.9	184.0
117.5°	205.1	208.9	206.4	196.4	182.8	180.3	215.1	207.6	207.6	196.4	171.6
120°	191.5	184.0	174.1	166.6	159.1	165.4	194.0	186.5	180.3	175.3	156.7
122.5°	171.6	162.9	151.7	148.0	143.0	151.7	176.6	170.3	164.1	161.6	148.0
125°	141.7	141.7	136.8	134.3	133.0	145.5	174.1	167.8	159.1	154.2	138.0
127.5°	136.8	136.8	133.0	130.5	131.8	146.7	170.3	164.1	154.2	148.0	133.0
130°	138.0	135.5	130.5	126.8	128.1	145.5	169.1	161.6	151.7	146.7	133.0
132.5°	130.5	128.1	124.3	121.8	120.6	138.0	160.4	156.7	149.2	138.0	123.1
135°	126.8	124.3	121.8	120.6	120.6	134.3	152.9	149.2	141.7	129.3	113.1
137.5°	125.6	123.1	118.1	116.9	115.6	128.1	143.0	140.5	133.0	121.8	108.2
140°	119.4	115.6	111.9	110.7	110.7	120.6	135.5	133.0	125.6	116.9	104.4
142.5°	110.7	108.2	104.4	104.4	105.7	115.6	131.8	130.5	121.8	111.9	100.7
145°	105.7	103.2	100.7	102.0	103.2	111.9	124.3	123.1	116.9	108.2	97.0
147.5°	97.0	95.7	93.2	92.0	94.5	102.0	115.6	115.6	111.9	100.7	89.5
150°	84.5	83.3	80.8	79.6	82.1	89.5	100.7	100.7	97.0	85.8	75.8
152.5°	70.9	69.6	69.6	70.9	73.4	77.1	87.0	88.3	84.5	73.4	64.7
155°	62.2	60.9	60.9	62.2	65.9	69.6	75.8	75.8	72.1	64.7	55.9
157.5°	53.5	52.2	52.2	53.5	57.2	59.7	65.9	64.7	62.2	55.9	48.5
160°	41.0	39.8	39.8	41.0	44.8	47.2	52.2	52.2	51.0	47.2	41.0
162.5°	31.1	29.8	29.8	31.1	33.6	34.8	38.5	39.8	39.8	37.3	32.3
165°	23.6	22.4	22.4	22.4	24.9	26.1	27.4	27.4	27.4	26.1	22.4
167.5°	14.9	13.7	13.7	14.9	16.2	16.2	17.4	17.4	16.2	16.2	13.7
170°	7.5	6.2	6.2	7.5	7.5	7.5	6.2	5.0	5.0	5.0	5.0
172.5°	2.5	1.2	3.7	3.7	2.5	0.0	0.0	1.2	1.2	1.2	0.0
175°	2.5	1.2	3.7	3.7	2.5	0.0	0.0	1.2	0.0	1.2	0.0
177.5°	1.2	1.2	3.7	3.7	2.5	0.0	0.0	0.0	0.0	1.2	0.0
180°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2





REPORT NUMBER: P588596

CATALOG NUMBER: ARC-CA6-120-750-U-33-X-5-X-GHSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
2.5°	64.7	63.4	58.4	51.0	43.5	36.1	34.8	36.1	37.3	38.5	39.8
5°	77.1	72.1	62.2	51.0	41.0	31.1	26.1	23.6	22.4	23.6	24.9
7.5°	93.2	87.0	74.6	60.9	48.5	38.5	32.3	26.1	22.4	22.4	23.6
10°	104.4	97.0	82.1	67.1	54.7	43.5	36.1	29.8	26.1	23.6	23.6
12.5°	116.9	106.9	87.0	70.9	57.2	47.2	39.8	33.6	29.8	27.4	27.4
15°	130.5	119.4	95.7	74.6	60.9	49.7	43.5	37.3	32.3	29.8	29.8
17.5°	152.9	134.3	100.7	78.3	63.4	52.2	44.8	38.5	33.6	31.1	31.1
20°	162.9	141.7	102.0	82.1	67.1	54.7	46.0	38.5	34.8	32.3	32.3
22.5°	162.9	140.5	104.4	84.5	70.9	57.2	47.2	39.8	34.8	32.3	32.3
25°	205.1	154.2	106.9	90.8	74.6	59.7	49.7	41.0	36.1	33.6	33.6
27.5°	287.2	201.4	123.1	97.0	79.6	63.4	52.2	43.5	37.3	34.8	34.8
30°	315.8	225.0	140.5	113.1	87.0	67.1	54.7	46.0	39.8	36.1	36.1
32.5°	322.0	221.3	150.4	124.3	99.5	73.4	57.2	48.5	41.0	37.3	37.3
35°	290.9	205.1	150.4	129.3	106.9	82.1	63.4	51.0	42.3	38.5	37.3
37.5°	339.4	221.3	154.2	130.5	110.7	88.3	70.9	54.7	44.8	39.8	39.8
40°	438.9	262.3	172.8	138.0	111.9	92.0	78.3	60.9	48.5	42.3	42.3
42.5°	513.5	295.9	192.7	156.7	121.8	97.0	80.8	65.9	53.5	46.0	44.8
45°	576.9	328.2	210.1	174.1	139.3	108.2	85.8	70.9	58.4	51.0	49.7
47.5°	588.1	344.4	223.8	191.5	152.9	119.4	93.2	75.8	64.7	55.9	54.7
50°	568.2	345.6	228.8	202.7	167.8	131.8	102.0	82.1	69.6	60.9	60.9
52.5°	811.9	431.4	251.2	208.9	172.8	141.7	113.1	89.5	74.6	67.1	67.1
55°	1464.6	697.5	324.5	247.4	185.3	149.2	123.1	100.7	82.1	73.4	73.4
57.5°	2367.3	1089.1	428.9	330.7	238.7	172.8	134.3	111.9	92.0	79.6	79.6
60°	3136.9	1536.7	522.2	402.8	313.3	237.5	162.9	126.8	103.2	88.3	87.0
62.5°	3611.8	1939.6	576.9	430.2	358.1	300.9	218.8	159.1	116.9	100.7	98.2
65°	3506.2	2141.0	600.5	427.7	355.6	320.8	261.1	197.7	140.5	115.6	111.9
67.5°	3220.2	2142.2	596.8	409.1	336.9	304.6	259.9	213.9	162.9	130.5	125.6
70°	3077.2	2104.9	578.1	395.4	322.0	284.7	241.2	196.4	160.4	139.3	136.8
72.5°	3008.8	2080.1	567.0	392.9	319.5	277.3	228.8	175.3	144.2	133.0	135.5
75°	3025.0	2095.0	571.9	396.6	324.5	281.0	223.8	162.9	126.8	114.4	116.9
77.5°	2988.9	2065.2	579.4	395.4	322.0	274.8	208.9	149.2	115.6	103.2	102.0
80°	3018.8	2000.5	562.0	382.9	303.4	249.9	185.3	133.0	105.7	97.0	95.7
82.5°	2790.0	1741.9	499.8	349.4	274.8	215.1	155.4	116.9	99.5	89.5	89.5
85°	2557.5	1412.4	428.9	307.1	226.3	169.1	124.3	102.0	87.0	79.6	79.6
87.5°	1940.8	1012.1	332.0	252.4	189.0	145.5	113.1	98.2	85.8	80.8	79.6
90°	1199.8	624.1	247.4	201.4	160.4	129.3	106.9	94.5	84.5	80.8	80.8
92.5°	671.4	399.1	191.5	165.4	138.0	115.6	98.2	85.8	77.1	73.4	73.4
95°	455.1	298.4	164.1	148.0	123.1	102.0	85.8	74.6	67.1	62.2	62.2
97.5°	329.5	235.0	145.5	133.0	110.7	89.5	75.8	64.7	58.4	55.9	55.9
100°	252.4	190.2	131.8	119.4	98.2	78.3	65.9	55.9	49.7	47.2	47.2
102.5°	202.7	160.4	119.4	108.2	87.0	69.6	55.9	46.0	41.0	39.8	38.5
105°	182.8	149.2	111.9	100.7	79.6	63.4	49.7	41.0	36.1	33.6	33.6
107.5°	177.8	149.2	110.7	98.2	75.8	59.7	44.8	37.3	32.3	29.8	29.8
110°	189.0	157.9	111.9	95.7	70.9	54.7	41.0	33.6	28.6	27.4	27.4



REPORT NUMBER: P588596

CATALOG NUMBER: ARC-CA6-120-750-U-33-X-5-X-GHSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	195.2	159.1	106.9	89.5	65.9	49.7	38.5	31.1	27.4	24.9	24.9
115°	179.0	143.0	98.2	79.6	58.4	44.8	36.1	29.8	24.9	22.4	22.4
117.5°	172.8	134.3	95.7	69.6	53.5	41.0	33.6	27.4	23.6	21.1	21.1
120°	172.8	130.5	84.5	60.9	48.5	37.3	31.1	24.9	21.1	19.9	19.9
122.5°	166.6	120.6	74.6	53.5	42.3	32.3	27.4	22.4	19.9	17.4	17.4
125°	151.7	111.9	60.9	48.5	38.5	29.8	24.9	21.1	17.4	16.2	16.2
127.5°	143.0	110.7	57.2	44.8	34.8	27.4	22.4	18.6	14.9	13.7	13.7
130°	141.7	110.7	53.5	39.8	31.1	23.6	19.9	16.2	13.7	12.4	12.4
132.5°	126.8	100.7	51.0	37.3	28.6	22.4	18.6	14.9	12.4	11.2	11.2
135°	114.4	93.2	49.7	34.8	26.1	19.9	16.2	13.7	9.9	9.9	9.9
137.5°	105.7	85.8	49.7	32.3	23.6	17.4	14.9	12.4	8.7	8.7	8.7
140°	99.5	79.6	48.5	31.1	21.1	16.2	13.7	9.9	7.5	7.5	7.5
142.5°	93.2	74.6	44.8	29.8	19.9	13.7	12.4	9.9	7.5	6.2	6.2
145°	85.8	68.4	39.8	27.4	18.6	12.4	11.2	8.7	6.2	5.0	5.0
147.5°	78.3	60.9	34.8	23.6	17.4	11.2	9.9	7.5	5.0	5.0	5.0
150°	67.1	52.2	31.1	21.1	14.9	9.9	8.7	6.2	5.0	3.7	3.7
152.5°	54.7	44.8	27.4	18.6	13.7	8.7	7.5	5.0	3.7	2.5	2.5
155°	48.5	39.8	24.9	16.2	11.2	7.5	6.2	3.7	3.7	2.5	2.5
157.5°	42.3	34.8	22.4	13.7	8.7	5.0	5.0	3.7	2.5	2.5	1.2
160°	34.8	29.8	18.6	11.2	7.5	3.7	3.7	2.5	2.5	1.2	1.2
162.5°	27.4	22.4	13.7	8.7	5.0	2.5	2.5	2.5	2.5	1.2	0.0
165°	18.6	16.2	9.9	6.2	3.7	1.2	1.2	2.5	1.2	1.2	0.0
167.5°	12.4	9.9	6.2	3.7	2.5	0.0	1.2	1.2	1.2	1.2	0.0
170°	5.0	5.0	3.7	2.5	0.0	0.0	0.0	1.2	1.2	1.2	0.0
172.5°	1.2	1.2	1.2	0.0	0.0	0.0	0.0	1.2	1.2	1.2	0.0
175°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	1.2	1.2	1.2	0.0
177.5°	1.2	1.2	1.2	1.2	0.0	0.0	1.2	1.2	1.2	1.2	0.0
180°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

(END OF REPORT)