

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: P588584

Luminaire Tested: **ARC-CA6-110-750-U-33-X-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588584
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-CA6-110-750-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: 7455 lumens
Efficiency: N/A
Efficacy: 131.9 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

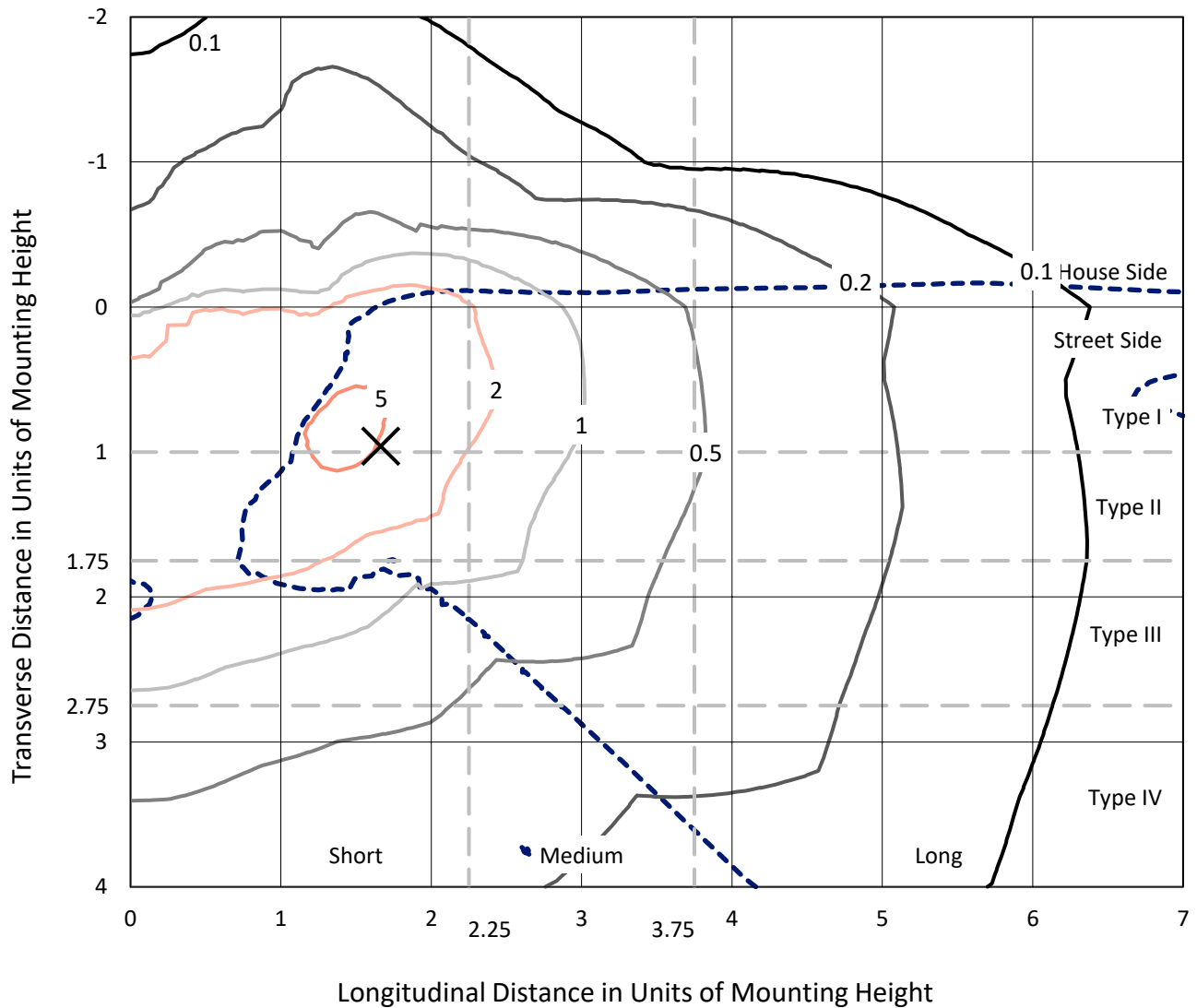
Input Watts (W): 56.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

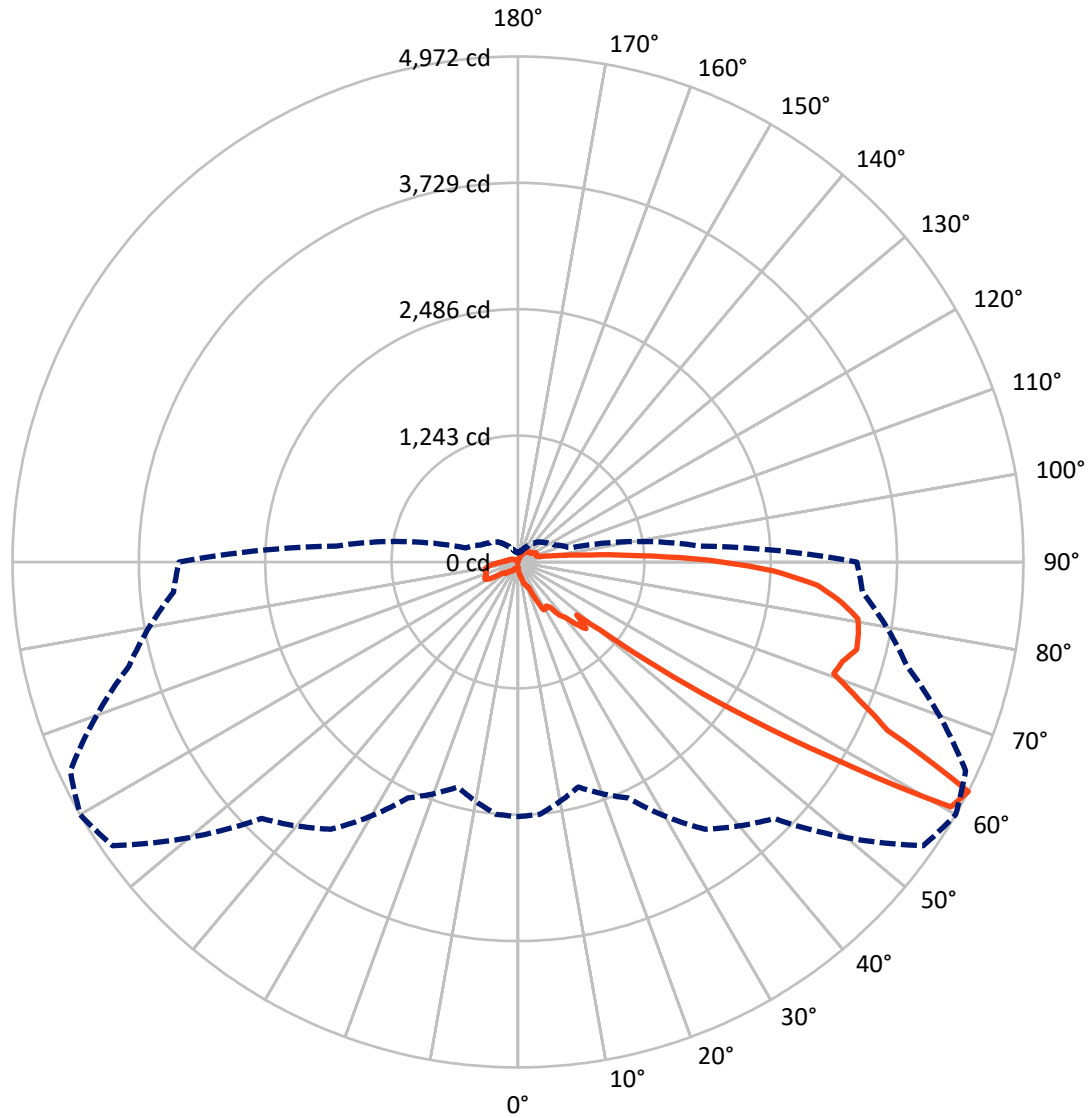
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 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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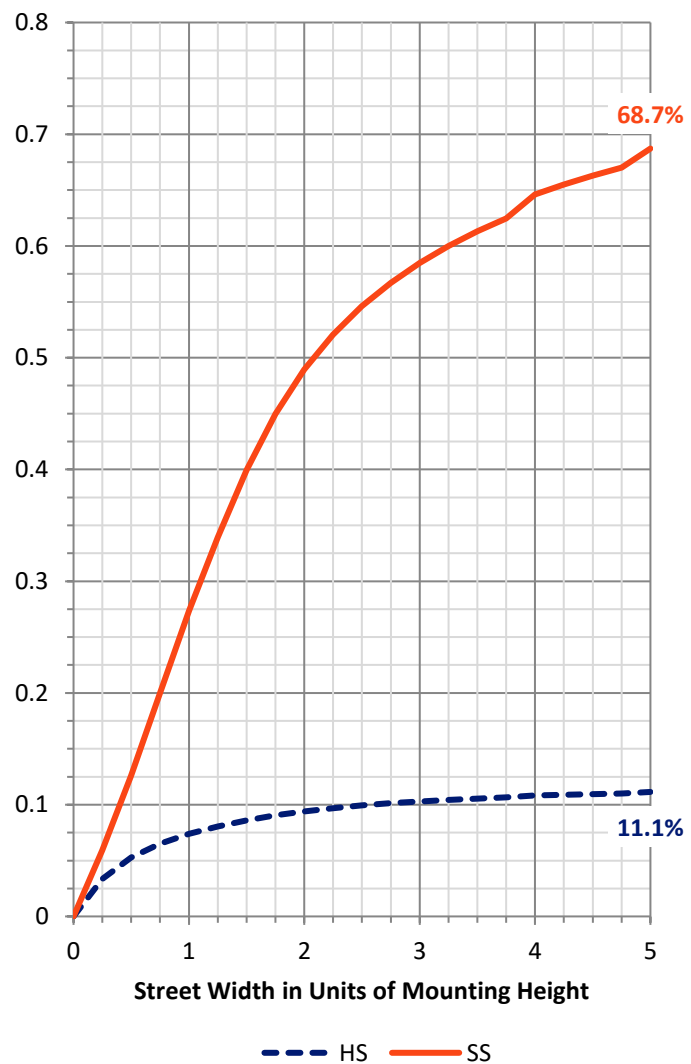
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	874.5	174.3	1048.9
	% Fixture	11.7	2.3	14.1
Street Side	Lumens	5694.5	711.6	6406.1
	% Fixture	76.4	9.5	85.9
Total	Lumens	6569.1	885.9	7455.0
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.8	0.1
10°-20°	35.8	0.5
20°-30°	106.6	1.4
30°-40°	214.2	2.9
40°-50°	377.0	5.1
50°-60°	1040.8	14.0
60°-70°	1799.5	24.1
70°-80°	1670.3	22.4
80°-90°	1317.1	17.7
90°-100°	417.9	5.6
100°-110°	149.1	2.0
110°-120°	122.5	1.6
120°-130°	80.6	1.1
130°-140°	57.4	0.8
140°-150°	37.1	0.5
150°-160°	17.0	0.2
160°-170°	4.2	0.1
170°-180°	0.2	0.0
0°-90°	6569.1	88.1
0°-180°	7455.0	100.0

Coefficient of Utilization



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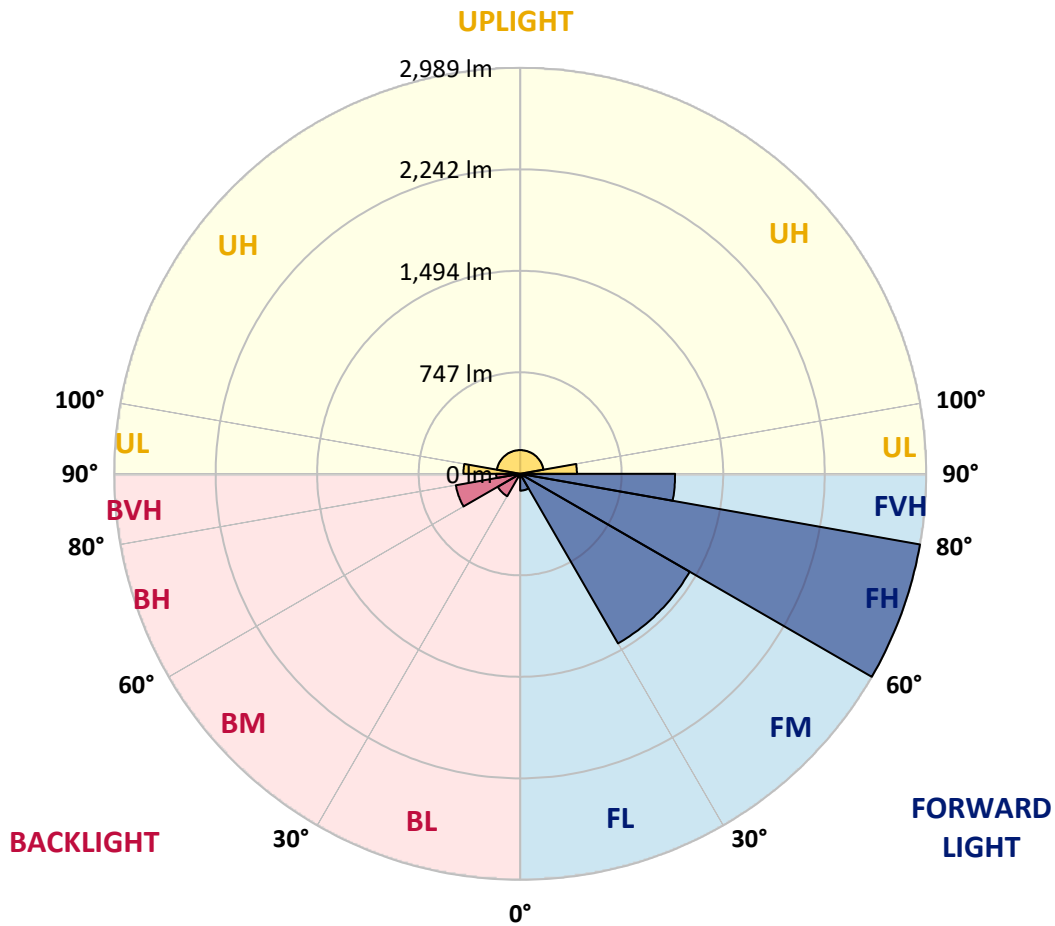
CATALOG NUMBER: ARC-CA6-110-750-U-33-X-5-X-GHSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	123.7	1.7			
FM (30°-60°)	1441.5	19.3			
FH (60°-80°)	2988.8	40.1			G2/5000
FVH (80°-90°)	1140.5	15.3			G5
BL (0°-30°)	26.5	0.4	B0/110		
BM (30°-60°)	190.4	2.6	B0/220		
BH (60°-80°)	481.0	6.5	B1/500		G1/500
BVH (80°-90°)	176.6	2.4			G2/225
UL (90°-100°)	417.9	5.6		U3/500	
UH (100°-180°)	174.3	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°	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
2.5°	88.3	86.0	87.2	87.2	88.3	83.8	79.2	75.7	72.3	67.7	62.0
5°	126.2	123.9	120.5	119.3	117.0	112.4	105.6	103.3	96.4	87.2	75.7
7.5°	153.7	152.6	151.4	148.0	145.7	138.8	130.8	127.3	119.3	106.7	92.9
10°	174.4	174.4	175.5	169.8	159.5	153.7	146.9	144.6	138.8	121.6	104.4
12.5°	191.6	189.3	180.1	175.5	170.9	172.1	173.2	172.1	169.8	141.1	117.0
15°	207.7	205.4	198.5	192.7	189.3	200.8	226.0	223.7	222.6	177.8	136.5
17.5°	219.1	219.1	226.0	230.6	236.3	219.1	214.5	221.4	229.5	196.2	154.9
20°	252.4	247.8	242.1	237.5	266.2	253.6	258.1	266.2	271.9	219.1	169.8
22.5°	237.5	238.6	263.9	273.1	259.3	252.4	268.5	271.9	273.1	251.3	176.7
25°	324.7	309.8	300.6	329.3	327.0	377.5	392.4	402.7	402.7	340.7	246.7
27.5°	448.6	448.6	487.6	563.3	550.7	551.8	534.6	533.5	555.3	575.9	375.2
30°	486.4	499.1	608.1	645.9	687.2	635.6	579.4	535.8	545.0	656.2	437.1
32.5°	497.9	509.4	641.3	600.0	614.9	594.3	602.3	514.0	492.2	604.6	425.6
35°	434.8	450.9	558.7	506.0	477.3	539.2	613.8	550.7	540.4	496.8	385.5
37.5°	580.5	588.6	626.4	618.4	627.6	631.0	720.5	663.1	674.6	600.0	487.6
40°	666.6	657.4	805.4	841.0	827.2	814.6	806.5	718.2	732.0	695.3	659.7
42.5°	819.2	808.8	913.2	935.0	938.5	905.2	943.1	831.8	797.4	721.6	821.5
45°	829.5	835.2	933.9	877.7	936.2	997.0	1065.8	937.3	875.4	748.0	954.5
47.5°	734.3	759.5	976.3	927.0	869.6	815.7	842.1	776.7	726.2	592.0	917.8
50°	749.2	759.5	898.3	839.8	698.7	865.1	1096.8	1049.8	994.7	734.3	884.6
52.5°	1060.1	1055.5	1116.3	1119.8	1155.3	1298.7	1756.5	1718.6	1727.8	1429.5	1317.1
55°	1453.6	1451.3	1605.1	1850.6	2053.6	2123.6	2721.4	2572.2	2504.5	2215.4	2325.6
57.5°	1879.3	1898.8	1966.5	2310.6	2658.3	2748.9	3685.1	3608.2	3459.1	2890.0	3183.7
60°	2327.8	2316.4	2216.6	2442.6	2999.0	3451.0	4855.3	4892.0	4594.9	3638.0	3475.1
62.5°	2504.5	2489.6	2291.1	2560.7	3209.0	3568.1	4866.8	4972.3	4858.8	3961.6	3401.7
65°	2474.7	2440.3	2176.4	2388.7	2708.7	3035.7	4344.8	3994.9	4180.7	4051.1	3215.8
67.5°	2357.7	2349.6	2104.1	2221.1	2430.0	2472.4	3968.5	3615.1	3681.6	4131.4	3270.9
70°	2210.8	2208.5	2022.7	2111.0	2408.2	2364.6	3673.6	3293.9	3254.9	3697.7	3284.7
72.5°	2215.4	2213.1	2007.8	2037.6	2356.5	2285.4	3642.6	3339.8	3268.6	3484.3	3126.4
75°	2253.3	2255.6	2037.6	2070.9	2428.8	2301.5	3716.1	3441.9	3369.6	3463.7	3000.2
77.5°	2216.6	2234.9	2020.4	2094.9	2474.7	2299.2	3681.6	3422.4	3320.2	3293.9	2759.2
80°	2093.8	2119.0	1926.3	2012.3	2433.4	2330.1	3653.0	3392.5	3262.9	3118.3	2586.0
82.5°	1836.8	1863.2	1715.2	1794.4	2263.6	2202.8	3452.2	3199.8	3083.9	2831.5	2360.0
85°	1578.7	1639.5	1567.2	1578.7	1998.6	2016.9	3181.4	2958.9	2878.5	2658.3	2283.1
87.5°	1303.3	1356.1	1288.4	1206.9	1497.2	1602.8	2630.7	2520.6	2498.8	2346.2	1981.4
90°	964.9	1013.1	972.9	866.2	1014.2	1080.7	1938.9	1878.1	1925.1	1750.8	1361.8
92.5°	699.8	707.9	660.8	572.5	675.8	707.9	1271.2	1178.3	1233.3	1072.7	798.5
95°	468.1	487.6	450.9	413.0	489.9	493.3	783.6	714.8	684.9	616.1	477.3
97.5°	343.0	344.2	330.4	296.0	344.2	348.8	520.9	469.2	442.9	414.2	330.4
100°	271.9	271.9	251.3	229.5	239.8	249.0	362.5	327.0	313.2	300.6	249.0
102.5°	237.5	236.3	219.1	197.3	196.2	200.8	274.2	250.1	239.8	231.8	196.2
105°	224.9	223.7	206.5	183.6	177.8	174.4	228.3	212.2	205.4	198.5	176.7
107.5°	222.6	220.3	203.1	182.4	173.2	164.1	205.4	191.6	192.7	185.9	169.8
110°	224.9	224.9	210.0	197.3	182.4	169.8	206.5	191.6	196.2	193.9	176.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	219.1	224.9	219.1	211.1	195.0	184.7	215.7	198.5	204.2	204.2	182.4
115°	206.5	212.2	212.2	204.2	189.3	185.9	213.4	198.5	200.8	197.3	169.8
117.5°	189.3	192.7	190.4	181.3	168.7	166.4	198.5	191.6	191.6	181.3	158.3
120°	176.7	169.8	160.6	153.7	146.9	152.6	179.0	172.1	166.4	161.8	144.6
122.5°	158.3	150.3	140.0	136.5	131.9	140.0	162.9	157.2	151.4	149.1	136.5
125°	130.8	130.8	126.2	123.9	122.8	134.2	160.6	154.9	146.9	142.3	127.3
127.5°	126.2	126.2	122.8	120.5	121.6	135.4	157.2	151.4	142.3	136.5	122.8
130°	127.3	125.1	120.5	117.0	118.2	134.2	156.0	149.1	140.0	135.4	122.8
132.5°	120.5	118.2	114.7	112.4	111.3	127.3	148.0	144.6	137.7	127.3	113.6
135°	117.0	114.7	112.4	111.3	111.3	123.9	141.1	137.7	130.8	119.3	104.4
137.5°	115.9	113.6	109.0	107.8	106.7	118.2	131.9	129.6	122.8	112.4	99.8
140°	110.1	106.7	103.3	102.1	102.1	111.3	125.1	122.8	115.9	107.8	96.4
142.5°	102.1	99.8	96.4	96.4	97.5	106.7	121.6	120.5	112.4	103.3	92.9
145°	97.5	95.2	92.9	94.1	95.2	103.3	114.7	113.6	107.8	99.8	89.5
147.5°	89.5	88.3	86.0	84.9	87.2	94.1	106.7	106.7	103.3	92.9	82.6
150°	78.0	76.9	74.6	73.4	75.7	82.6	92.9	92.9	89.5	79.2	70.0
152.5°	65.4	64.2	64.2	65.4	67.7	71.1	80.3	81.5	78.0	67.7	59.7
155°	57.4	56.2	56.2	57.4	60.8	64.2	70.0	70.0	66.5	59.7	51.6
157.5°	49.3	48.2	48.2	49.3	52.8	55.1	60.8	59.7	57.4	51.6	44.7
160°	37.9	36.7	36.7	37.9	41.3	43.6	48.2	48.2	47.0	43.6	37.9
162.5°	28.7	27.5	27.5	28.7	31.0	32.1	35.6	36.7	36.7	34.4	29.8
165°	21.8	20.7	20.7	20.7	22.9	24.1	25.2	25.2	25.2	24.1	20.7
167.5°	13.8	12.6	12.6	13.8	14.9	14.9	16.1	16.1	14.9	14.9	12.6
170°	6.9	5.7	5.7	6.9	6.9	6.9	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°	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
2.5°	59.7	58.5	53.9	47.0	40.2	33.3	32.1	33.3	34.4	35.6	36.7
5°	71.1	66.5	57.4	47.0	37.9	28.7	24.1	21.8	20.7	21.8	22.9
7.5°	86.0	80.3	68.8	56.2	44.7	35.6	29.8	24.1	20.7	20.7	21.8
10°	96.4	89.5	75.7	62.0	50.5	40.2	33.3	27.5	24.1	21.8	21.8
12.5°	107.8	98.7	80.3	65.4	52.8	43.6	36.7	31.0	27.5	25.2	25.2
15°	120.5	110.1	88.3	68.8	56.2	45.9	40.2	34.4	29.8	27.5	27.5
17.5°	141.1	123.9	92.9	72.3	58.5	48.2	41.3	35.6	31.0	28.7	28.7
20°	150.3	130.8	94.1	75.7	62.0	50.5	42.4	35.6	32.1	29.8	29.8
22.5°	150.3	129.6	96.4	78.0	65.4	52.8	43.6	36.7	32.1	29.8	29.8
25°	189.3	142.3	98.7	83.8	68.8	55.1	45.9	37.9	33.3	31.0	31.0
27.5°	265.0	185.9	113.6	89.5	73.4	58.5	48.2	40.2	34.4	32.1	32.1
30°	291.4	207.7	129.6	104.4	80.3	62.0	50.5	42.4	36.7	33.3	33.3
32.5°	297.1	204.2	138.8	114.7	91.8	67.7	52.8	44.7	37.9	34.4	34.4
35°	268.5	189.3	138.8	119.3	98.7	75.7	58.5	47.0	39.0	35.6	34.4
37.5°	313.2	204.2	142.3	120.5	102.1	81.5	65.4	50.5	41.3	36.7	36.7
40°	405.0	242.1	159.5	127.3	103.3	84.9	72.3	56.2	44.7	39.0	39.0
42.5°	473.8	273.1	177.8	144.6	112.4	89.5	74.6	60.8	49.3	42.4	41.3
45°	532.3	302.9	193.9	160.6	128.5	99.8	79.2	65.4	53.9	47.0	45.9
47.5°	542.7	317.8	206.5	176.7	141.1	110.1	86.0	70.0	59.7	51.6	50.5
50°	524.3	318.9	211.1	187.0	154.9	121.6	94.1	75.7	64.2	56.2	56.2
52.5°	749.2	398.1	231.8	192.7	159.5	130.8	104.4	82.6	68.8	62.0	62.0
55°	1351.5	643.6	299.4	228.3	170.9	137.7	113.6	92.9	75.7	67.7	67.7
57.5°	2184.4	1005.0	395.8	305.2	220.3	159.5	123.9	103.3	84.9	73.4	73.4
60°	2894.6	1418.0	481.9	371.7	289.1	219.1	150.3	117.0	95.2	81.5	80.3
62.5°	3332.9	1789.8	532.3	397.0	330.4	277.6	201.9	146.9	107.8	92.9	90.6
65°	3235.4	1975.6	554.1	394.7	328.1	296.0	240.9	182.4	129.6	106.7	103.3
67.5°	2971.5	1976.8	550.7	377.5	310.9	281.1	239.8	197.3	150.3	120.5	115.9
70°	2839.5	1942.4	533.5	364.8	297.1	262.7	222.6	181.3	148.0	128.5	126.2
72.5°	2776.4	1919.4	523.2	362.5	294.9	255.8	211.1	161.8	133.1	122.8	125.1
75°	2791.4	1933.2	527.8	366.0	299.4	259.3	206.5	150.3	117.0	105.6	107.8
77.5°	2758.1	1905.6	534.6	364.8	297.1	253.6	192.7	137.7	106.7	95.2	94.1
80°	2785.6	1846.0	518.6	353.4	279.9	230.6	170.9	122.8	97.5	89.5	88.3
82.5°	2574.5	1607.3	461.2	322.4	253.6	198.5	143.4	107.8	91.8	82.6	82.6
85°	2360.0	1303.3	395.8	283.4	208.8	156.0	114.7	94.1	80.3	73.4	73.4
87.5°	1790.9	933.9	306.3	232.9	174.4	134.2	104.4	90.6	79.2	74.6	73.4
90°	1107.1	575.9	228.3	185.9	148.0	119.3	98.7	87.2	78.0	74.6	74.6
92.5°	619.5	368.3	176.7	152.6	127.3	106.7	90.6	79.2	71.1	67.7	67.7
95°	419.9	275.3	151.4	136.5	113.6	94.1	79.2	68.8	62.0	57.4	57.4
97.5°	304.0	216.8	134.2	122.8	102.1	82.6	70.0	59.7	53.9	51.6	51.6
100°	232.9	175.5	121.6	110.1	90.6	72.3	60.8	51.6	45.9	43.6	43.6
102.5°	187.0	148.0	110.1	99.8	80.3	64.2	51.6	42.4	37.9	36.7	35.6
105°	168.7	137.7	103.3	92.9	73.4	58.5	45.9	37.9	33.3	31.0	31.0
107.5°	164.1	137.7	102.1	90.6	70.0	55.1	41.3	34.4	29.8	27.5	27.5
110°	174.4	145.7	103.3	88.3	65.4	50.5	37.9	31.0	26.4	25.2	25.2



REPORT NUMBER: P588584

CATALOG NUMBER: ARC-CA6-110-750-U-33-X-5-X-GHSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	180.1	146.9	98.7	82.6	60.8	45.9	35.6	28.7	25.2	22.9	22.9
115°	165.2	131.9	90.6	73.4	53.9	41.3	33.3	27.5	22.9	20.7	20.7
117.5°	159.5	123.9	88.3	64.2	49.3	37.9	31.0	25.2	21.8	19.5	19.5
120°	159.5	120.5	78.0	56.2	44.7	34.4	28.7	22.9	19.5	18.4	18.4
122.5°	153.7	111.3	68.8	49.3	39.0	29.8	25.2	20.7	18.4	16.1	16.1
125°	140.0	103.3	56.2	44.7	35.6	27.5	22.9	19.5	16.1	14.9	14.9
127.5°	131.9	102.1	52.8	41.3	32.1	25.2	20.7	17.2	13.8	12.6	12.6
130°	130.8	102.1	49.3	36.7	28.7	21.8	18.4	14.9	12.6	11.5	11.5
132.5°	117.0	92.9	47.0	34.4	26.4	20.7	17.2	13.8	11.5	10.3	10.3
135°	105.6	86.0	45.9	32.1	24.1	18.4	14.9	12.6	9.2	9.2	9.2
137.5°	97.5	79.2	45.9	29.8	21.8	16.1	13.8	11.5	8.0	8.0	8.0
140°	91.8	73.4	44.7	28.7	19.5	14.9	12.6	9.2	6.9	6.9	6.9
142.5°	86.0	68.8	41.3	27.5	18.4	12.6	11.5	9.2	6.9	5.7	5.7
145°	79.2	63.1	36.7	25.2	17.2	11.5	10.3	8.0	5.7	4.6	4.6
147.5°	72.3	56.2	32.1	21.8	16.1	10.3	9.2	6.9	4.6	4.6	4.6
150°	62.0	48.2	28.7	19.5	13.8	9.2	8.0	5.7	4.6	3.4	3.4
152.5°	50.5	41.3	25.2	17.2	12.6	8.0	6.9	4.6	3.4	2.3	2.3
155°	44.7	36.7	22.9	14.9	10.3	6.9	5.7	3.4	3.4	2.3	2.3
157.5°	39.0	32.1	20.7	12.6	8.0	4.6	4.6	3.4	2.3	2.3	1.1
160°	32.1	27.5	17.2	10.3	6.9	3.4	3.4	2.3	2.3	1.1	1.1
162.5°	25.2	20.7	12.6	8.0	4.6	2.3	2.3	2.3	2.3	1.1	0.0
165°	17.2	14.9	9.2	5.7	3.4	1.1	1.1	2.3	1.1	1.1	0.0
167.5°	11.5	9.2	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)