

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: P588364

Luminaire Tested: **ARC-CA6-100-750-U-33-X-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC-CA6-100-750-U-33-X-5-X
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR
Light Source: (6) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14335 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B4 - U4 - G5

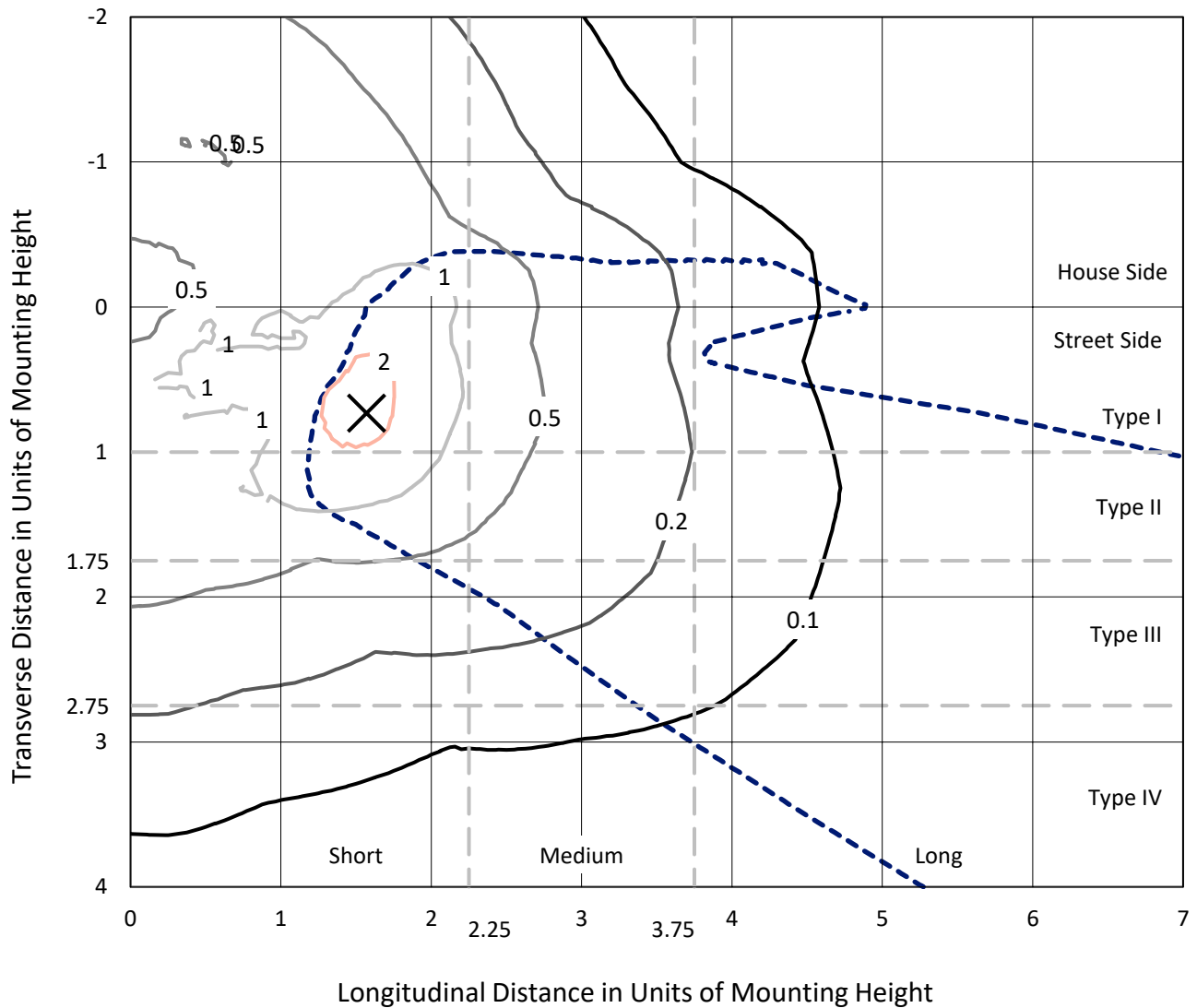
Input Watts (W): 103.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

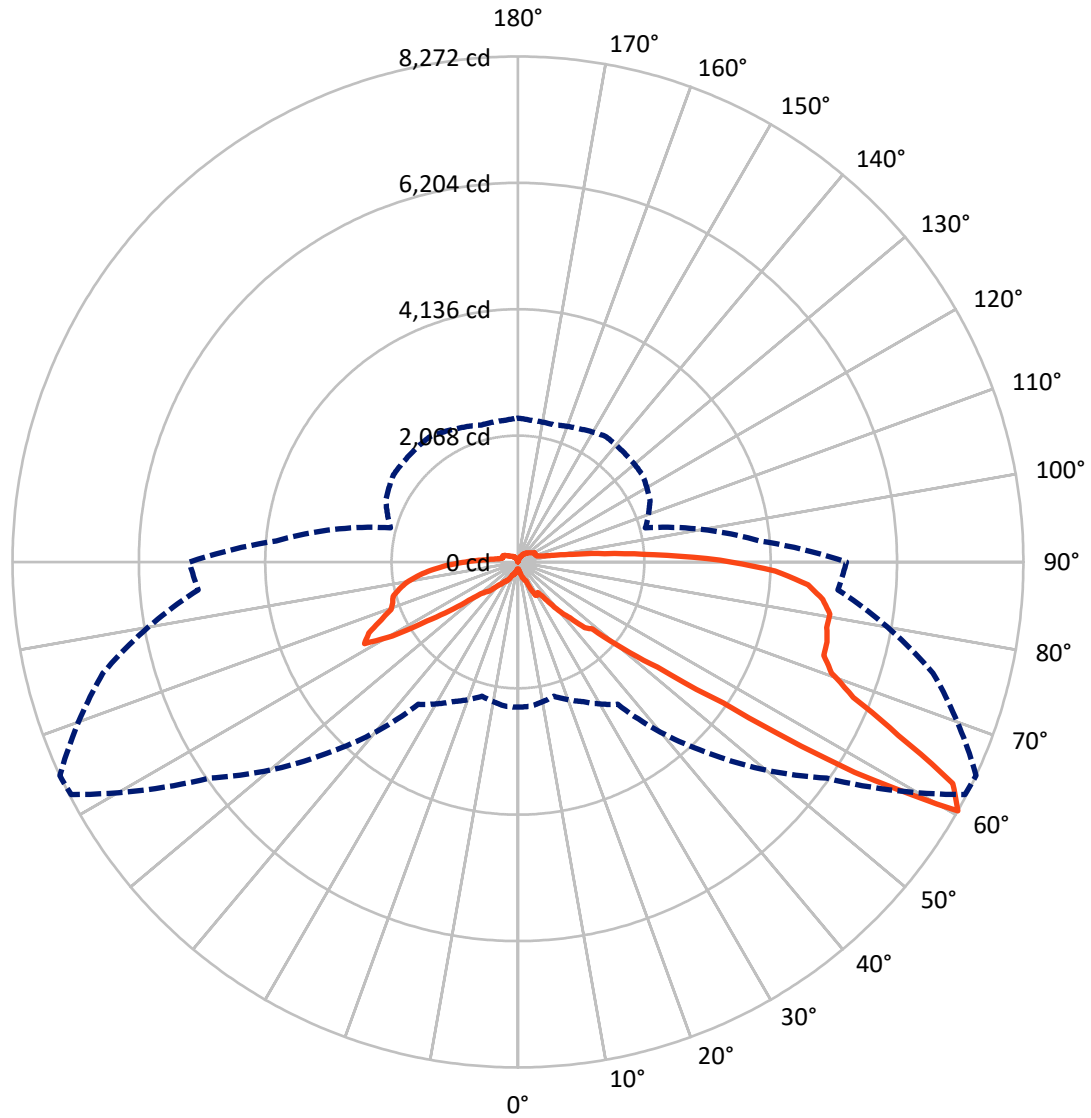
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P588364
CATALOG NUMBER: ARC-CA6-100-750-U-33-X-5-X

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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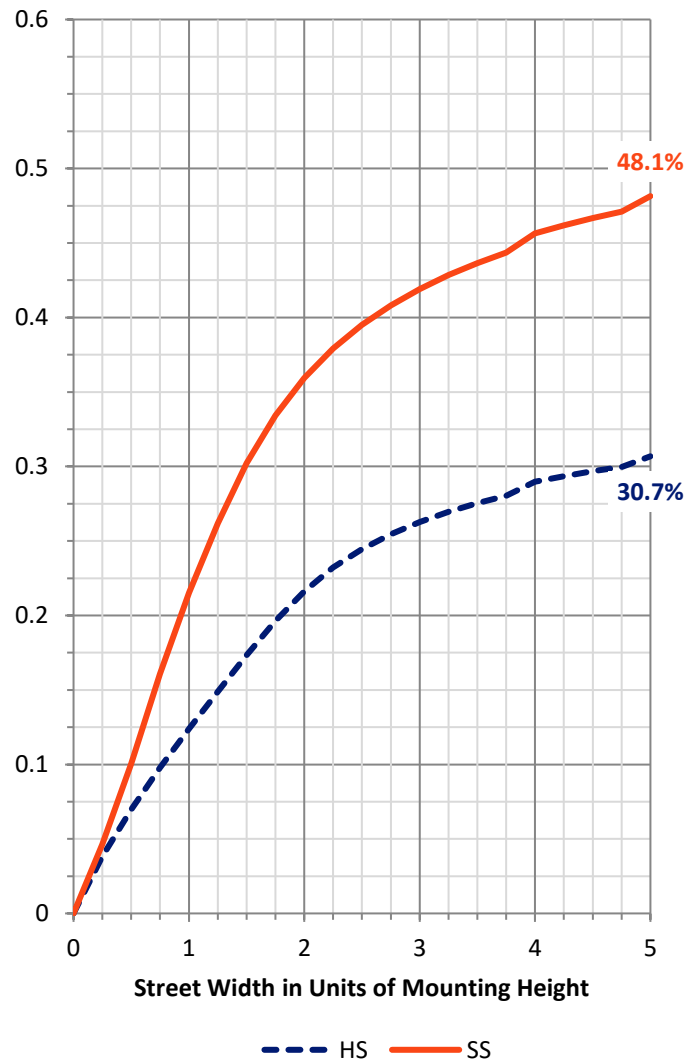
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4780.4	765.6	5545.9
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	7648.0	1141.1	8789.1
	% Fixture	53.4	8.0	61.3
Total	Lumens	12428.4	1906.6	14335.0
	% Fixture	86.7	13.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.8	0.1
10°-20°	61.2	0.4
20°-30°	175.1	1.2
30°-40°	377.0	2.6
40°-50°	713.5	5.0
50°-60°	1993.1	13.9
60°-70°	3553.2	24.8
70°-80°	3110.9	21.7
80°-90°	2430.6	17.0
90°-100°	918.9	6.4
100°-110°	316.1	2.2
110°-120°	258.4	1.8
120°-130°	173.6	1.2
130°-140°	119.2	0.8
140°-150°	74.9	0.5
150°-160°	34.7	0.2
160°-170°	9.8	0.1
170°-180°	0.9	0.0
0°-90°	12428.4	86.7
0°-180°	14335.0	100.0



REPORT NUMBER: P588364

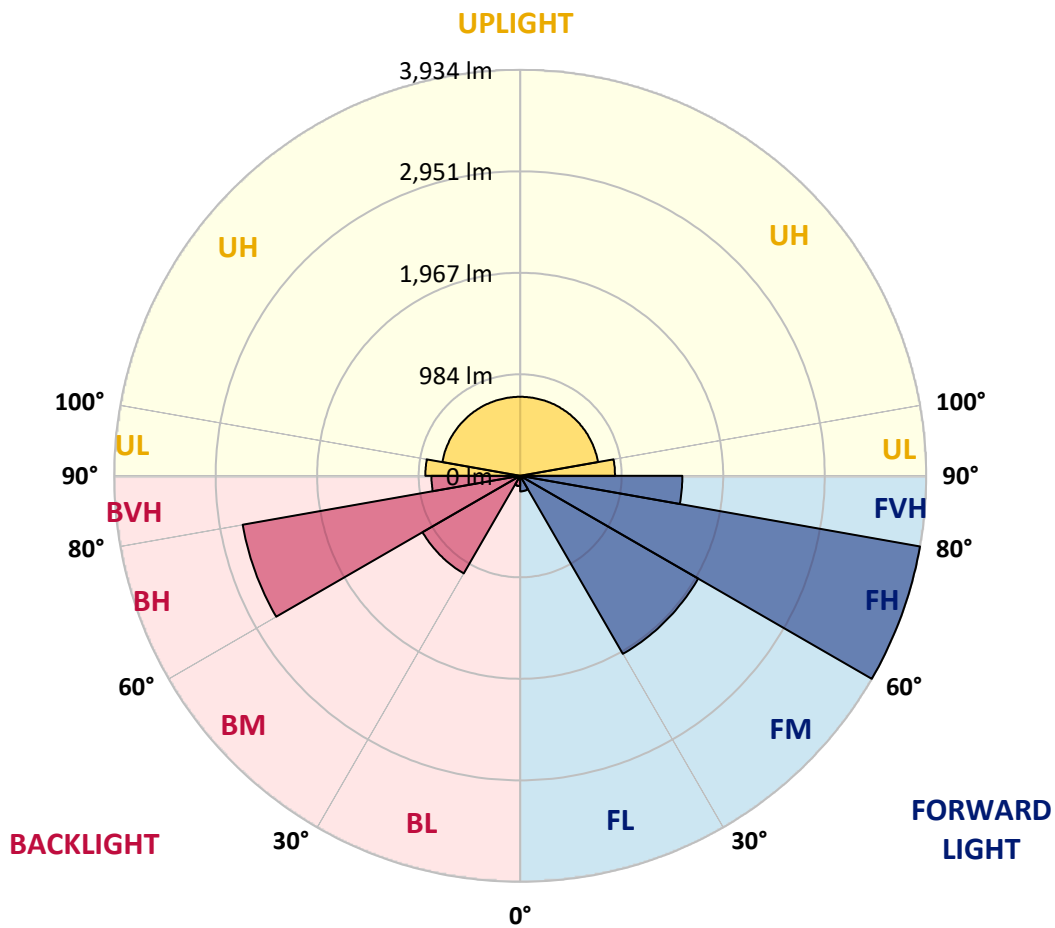
CATALOG NUMBER: ARC-CA6-100-750-U-33-X-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	151.0	1.1			
FM (30°-60°)	1991.7	13.9			
FH (60°-80°)	3934.2	27.4			G2/5000
FVH (80°-90°)	1571.1	11.0			G5
BL (0°-30°)	99.0	0.7	B0/110		
BM (30°-60°)	1091.9	7.6	B2/2500		
BH (60°-80°)	2730.0	19.0	B4/5000		G4/5000
BVH (80°-90°)	859.5	6.0			G5
UL (90°-100°)	918.9	6.4		U4/1000	
UH (100°-180°)	765.6	5.3		U4/1000	

BUG Rating: B4-U4-G5

Type III Short





REPORT NUMBER: P588364
 CATALOG NUMBER: ARC-CA6-100-750-U-33-X-5-X

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7
2.5°	126.4	122.7	118.9	118.9	117.1	115.2	115.2	111.5	113.4	111.5	111.5
5°	148.7	146.8	143.1	145.0	141.2	139.4	139.4	137.5	135.7	133.8	128.2
7.5°	172.8	172.8	174.7	176.6	171.0	165.4	163.5	159.8	159.8	158.0	154.3
10°	198.9	197.0	189.6	189.6	185.9	182.1	184.0	182.1	182.1	182.1	174.7
12.5°	206.3	204.4	198.9	198.9	198.9	197.0	204.4	202.6	204.4	202.6	191.4
15°	232.3	230.5	228.6	230.5	237.9	252.8	271.3	263.9	265.8	262.1	221.2
17.5°	243.5	249.0	252.8	254.6	262.1	262.1	265.8	263.9	271.3	276.9	252.8
20°	282.5	278.8	282.5	295.5	314.1	315.9	310.4	310.4	314.1	315.9	269.5
22.5°	299.2	297.4	312.2	301.1	301.1	310.4	343.8	332.7	332.7	329.0	289.9
25°	388.4	395.9	410.7	429.3	473.9	486.9	524.1	483.2	488.8	431.2	368.0
27.5°	466.5	472.1	559.4	637.5	672.8	654.2	685.8	609.6	617.0	624.5	537.1
30°	490.6	501.8	628.2	685.8	732.3	695.1	736.0	635.6	630.0	672.8	637.5
32.5°	472.1	483.2	617.0	641.2	689.5	827.0	775.0	613.3	596.6	617.0	659.8
35°	518.5	526.0	605.9	548.3	592.9	1156.0	1014.7	715.5	682.1	568.7	631.9
37.5°	622.6	622.6	717.4	758.3	791.7	1364.1	1332.6	890.2	864.2	665.3	730.4
40°	754.6	750.8	867.9	895.8	910.7	1235.9	1611.3	1135.6	1077.9	782.4	951.6
42.5°	834.5	827.0	921.8	951.6	951.6	1046.3	1823.2	1382.7	1248.9	912.5	1163.4
45°	866.1	873.5	996.2	959.0	986.9	1074.2	2049.9	1724.7	1537.0	1070.5	1349.3
47.5°	784.3	795.4	972.0	975.7	834.5	858.6	1838.1	1791.6	1637.3	1146.7	1408.8
50°	962.7	970.1	1033.3	990.6	921.8	1087.2	2189.3	2302.7	2235.8	1419.9	1486.8
52.5°	1321.4	1354.9	1414.3	1451.5	1431.1	1826.9	2936.4	2916.0	2860.2	2131.7	2029.5
55°	1711.7	1739.6	1823.2	2048.1	2219.1	2735.7	3652.0	4079.4	4075.7	3462.4	3163.2
57.5°	2066.7	2068.5	2079.7	2356.6	2620.5	3572.1	4783.8	6354.2	6495.5	5530.9	4529.2
60°	2375.2	2369.6	2274.8	2522.0	2843.5	4428.8	6166.5	8244.4	8272.2	7032.6	5254.0
62.5°	2458.8	2442.1	2304.6	2535.0	2810.1	4445.6	6519.7	8019.5	7987.9	7138.5	5348.8
65°	2386.3	2369.6	2194.9	2401.2	2531.3	4040.4	6021.6	6896.9	6844.9	6521.5	5092.3
67.5°	2278.5	2289.7	2116.8	2274.8	2364.0	3789.5	5497.5	5934.2	5919.4	6077.3	4878.6
70°	2122.4	2131.7	1973.7	2168.9	2299.0	3629.7	4995.7	5469.6	5443.6	5675.9	4564.5
72.5°	2128.0	2155.9	1968.2	2115.0	2250.7	3410.4	4768.9	5309.8	5233.6	5268.9	4187.2
75°	2142.9	2180.0	1981.2	2113.1	2239.5	3330.5	4742.9	5322.8	5226.1	5122.1	4044.1
77.5°	2148.4	2202.3	1988.6	2133.6	2243.2	3220.8	4683.4	5257.7	5166.7	4980.8	3875.0
80°	2103.8	2161.4	1957.0	2135.4	2219.1	3003.4	4532.9	5246.6	5177.8	4962.2	3806.2
82.5°	2014.6	2072.2	1895.7	2042.5	2172.6	2782.2	4321.0	5029.1	5025.4	4783.8	3661.3
85°	1819.5	1882.7	1748.9	1884.5	2044.4	2488.5	3893.6	4659.3	4761.5	4566.4	3466.1
87.5°	1631.8	1695.0	1624.3	1700.5	1862.2	2163.3	3345.3	4021.8	4213.2	4051.6	2977.3
90°	1418.0	1483.1	1425.5	1395.7	1525.8	1726.6	2674.4	3127.9	3308.1	3209.6	2191.2
92.5°	1135.6	1191.3	1137.4	1068.6	1146.7	1267.5	1986.7	2189.3	2232.1	2137.3	1436.6
95°	858.6	899.5	851.2	782.4	791.7	867.9	1369.7	1434.8	1423.6	1310.3	912.5
97.5°	596.6	620.7	589.1	540.8	557.6	605.9	907.0	899.5	899.5	801.0	596.6
100°	414.4	423.7	408.9	386.6	399.6	431.2	609.6	607.7	589.1	540.8	434.9
102.5°	329.0	330.8	315.9	301.1	293.6	323.4	440.5	438.6	442.3	420.0	340.1
105°	289.9	288.1	275.1	262.1	247.2	276.9	349.4	364.3	362.4	343.8	291.8
107.5°	265.8	263.9	250.9	239.7	226.7	252.8	302.9	323.4	321.5	319.7	275.1
110°	247.2	245.3	234.2	223.0	211.9	241.6	284.4	315.9	315.9	315.9	278.8



REPORT NUMBER: P588364

CATALOG NUMBER: ARC-CA6-100-750-U-33-X-5-X

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	234.2	234.2	224.9	215.6	206.3	239.7	273.2	310.4	310.4	319.7	291.8
115°	226.7	224.9	217.4	211.9	204.4	241.6	269.5	306.7	308.5	321.5	289.9
117.5°	221.2	219.3	213.7	206.3	202.6	237.9	271.3	314.1	312.2	332.7	284.4
120°	211.9	208.2	200.7	193.3	189.6	219.3	263.9	304.8	301.1	310.4	262.1
122.5°	204.4	193.3	180.3	174.7	174.7	198.9	247.2	275.1	271.3	263.9	236.0
125°	187.7	176.6	165.4	163.5	165.4	185.9	236.0	252.8	254.6	249.0	223.0
127.5°	169.1	161.7	156.1	156.1	159.8	182.1	232.3	243.5	243.5	232.3	211.9
130°	159.8	158.0	154.3	154.3	161.7	184.0	226.7	230.5	230.5	215.6	206.3
132.5°	156.1	152.4	148.7	148.7	156.1	178.4	211.9	219.3	217.4	202.6	195.1
135°	148.7	146.8	143.1	143.1	152.4	174.7	198.9	206.3	204.4	185.9	180.3
137.5°	145.0	141.2	141.2	141.2	150.5	172.8	187.7	193.3	191.4	172.8	167.3
140°	139.4	137.5	133.8	133.8	146.8	167.3	176.6	178.4	176.6	161.7	156.1
142.5°	130.1	128.2	126.4	130.1	143.1	158.0	165.4	165.4	163.5	154.3	146.8
145°	124.5	122.7	120.8	130.1	141.2	148.7	156.1	150.5	150.5	145.0	137.5
147.5°	118.9	117.1	117.1	124.5	133.8	133.8	139.4	137.5	139.4	137.5	130.1
150°	107.8	105.9	105.9	111.5	113.4	113.4	118.9	118.9	118.9	118.9	113.4
152.5°	94.8	92.9	94.8	96.6	96.6	96.6	100.4	102.2	102.2	100.4	98.5
155°	81.8	81.8	81.8	83.6	83.6	81.8	87.4	87.4	87.4	87.4	85.5
157.5°	72.5	72.5	72.5	72.5	72.5	70.6	74.3	74.3	76.2	74.3	74.3
160°	63.2	61.3	61.3	61.3	61.3	59.5	61.3	61.3	61.3	63.2	63.2
162.5°	50.2	48.3	48.3	48.3	48.3	44.6	48.3	46.5	48.3	48.3	50.2
165°	40.9	39.0	39.0	39.0	37.2	35.3	37.2	35.3	35.3	35.3	37.2
167.5°	31.6	31.6	29.7	31.6	29.7	26.0	26.0	24.2	24.2	24.2	24.2
170°	24.2	22.3	20.4	22.3	20.4	16.7	16.7	14.9	14.9	13.0	13.0
172.5°	16.7	14.9	13.0	14.9	13.0	9.3	9.3	5.6	5.6	5.6	5.6
175°	14.9	13.0	11.2	13.0	11.2	7.4	5.6	3.7	3.7	3.7	3.7
177.5°	14.9	13.0	11.2	13.0	11.2	7.4	5.6	3.7	3.7	3.7	3.7
180°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4



REPORT NUMBER: P588364
 CATALOG NUMBER: ARC-CA6-100-750-U-33-X-5-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7
2.5°	111.5	109.7	107.8	111.5	109.7	111.5	113.4	115.2	115.2	113.4	113.4
5°	128.2	126.4	122.7	120.8	117.1	117.1	117.1	120.8	120.8	118.9	120.8
7.5°	152.4	148.7	143.1	139.4	133.8	133.8	132.0	135.7	137.5	133.8	135.7
10°	171.0	169.1	161.7	156.1	150.5	148.7	148.7	150.5	150.5	148.7	148.7
12.5°	187.7	184.0	176.6	171.0	163.5	161.7	161.7	163.5	163.5	161.7	161.7
15°	211.9	200.7	193.3	187.7	180.3	178.4	176.6	178.4	180.3	176.6	176.6
17.5°	245.3	232.3	215.6	200.7	193.3	197.0	198.9	200.7	198.9	193.3	193.3
20°	263.9	256.5	234.2	223.0	213.7	213.7	213.7	213.7	213.7	211.9	213.7
22.5°	276.9	265.8	237.9	230.5	224.9	228.6	232.3	234.2	234.2	232.3	232.3
25°	336.4	295.5	267.6	262.1	254.6	256.5	252.8	252.8	254.6	252.8	256.5
27.5°	462.8	395.9	332.7	310.4	304.8	304.8	308.5	308.5	308.5	308.5	306.7
30°	555.7	477.6	373.6	343.8	340.1	356.8	366.1	373.6	369.8	364.3	364.3
32.5°	570.6	485.1	381.0	369.8	379.1	392.1	401.4	407.0	412.6	410.7	408.9
35°	539.0	447.9	375.4	390.3	397.7	405.2	407.0	403.3	420.0	427.5	429.3
37.5°	602.2	501.8	436.8	447.9	438.6	431.2	434.9	436.8	459.1	470.2	481.4
40°	769.4	605.9	496.2	490.6	485.1	501.8	524.1	535.3	533.4	526.0	527.8
42.5°	931.1	708.1	559.4	557.6	555.7	585.4	620.7	618.9	602.2	589.1	589.1
45°	1096.5	806.6	659.8	661.6	657.9	669.1	678.4	670.9	672.8	676.5	680.2
47.5°	1198.7	895.8	723.0	717.4	693.2	715.5	741.5	724.8	719.2	710.0	713.7
50°	1222.9	918.1	760.1	801.0	778.7	762.0	734.1	723.0	743.4	758.3	769.4
52.5°	1589.0	1133.7	949.7	1014.7	985.0	925.5	920.0	901.4	923.7	925.5	938.5
55°	2663.2	1817.6	1308.4	1371.6	1373.4	1353.0	1445.9	1393.9	1347.4	1327.0	1319.5
57.5°	4198.4	2810.1	1693.1	1773.0	1849.2	1921.7	2048.1	1942.1	1808.3	1791.6	1810.2
60°	5376.7	3967.9	2159.6	2384.5	2486.7	2490.4	2507.1	2403.1	2321.3	2328.7	2354.7
62.5°	5629.4	4934.3	2750.6	2843.5	2852.8	2784.0	2813.8	2880.7	2765.5	2674.4	2698.6
65°	5460.3	5317.2	2943.9	2702.3	2687.4	2698.6	2901.1	3087.0	2854.7	2624.2	2624.2
67.5°	5133.2	5025.4	2746.9	2430.9	2471.8	2598.2	2854.7	2947.6	2700.4	2455.1	2455.1
70°	4783.8	4568.2	2525.7	2215.3	2315.7	2462.5	2629.8	2637.2	2492.3	2317.6	2306.4
72.5°	4406.5	4211.4	2430.9	2152.2	2198.6	2224.6	2315.7	2373.3	2356.6	2243.2	2241.4
75°	4295.0	4137.0	2429.1	2122.4	2094.5	2085.2	2148.4	2273.0	2330.6	2263.7	2267.4
77.5°	4125.9	4031.1	2315.7	1997.9	1968.2	1968.2	2001.6	2102.0	2189.3	2161.4	2170.7
80°	4008.8	3865.7	2142.9	1862.2	1821.3	1826.9	1830.6	1899.4	1981.2	1984.9	1984.9
82.5°	3783.9	3514.4	1880.8	1659.7	1631.8	1639.2	1626.2	1665.2	1687.5	1715.4	1709.8
85°	3414.1	3033.1	1589.0	1438.5	1393.9	1379.0	1367.9	1369.7	1382.7	1377.2	1354.9
87.5°	2860.2	2404.9	1267.5	1180.2	1128.1	1090.9	1076.1	1057.5	1055.6	1035.2	1042.6
90°	2111.3	1650.4	940.4	908.8	871.6	832.6	812.2	793.6	778.7	758.3	750.8
92.5°	1377.2	1063.1	687.6	670.9	646.8	624.5	615.2	605.9	602.2	585.4	591.0
95°	860.5	719.2	516.7	498.1	485.1	479.5	481.4	483.2	479.5	460.9	466.5
97.5°	574.3	520.4	403.3	390.3	377.3	375.4	377.3	381.0	382.9	369.8	373.6
100°	423.7	399.6	330.8	321.5	310.4	306.7	308.5	312.2	314.1	302.9	304.8
102.5°	336.4	325.2	286.2	282.5	269.5	265.8	269.5	271.3	273.2	265.8	265.8
105°	295.5	295.5	263.9	262.1	252.8	249.0	250.9	252.8	254.6	247.2	247.2
107.5°	284.4	286.2	254.6	256.5	250.9	249.0	252.8	256.5	254.6	249.0	247.2
110°	293.6	297.4	254.6	260.2	262.1	265.8	273.2	275.1	275.1	271.3	273.2



REPORT NUMBER: P588364

CATALOG NUMBER: ARC-CA6-100-750-U-33-X-5-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	302.9	308.5	250.9	263.9	276.9	286.2	299.2	306.7	302.9	301.1	302.9
115°	295.5	299.2	234.2	254.6	278.8	291.8	295.5	295.5	286.2	286.2	288.1
117.5°	286.2	293.6	217.4	234.2	250.9	262.1	260.2	254.6	243.5	239.7	250.9
120°	265.8	288.1	208.2	211.9	213.7	217.4	211.9	206.3	197.0	195.1	202.6
122.5°	245.3	265.8	191.4	187.7	185.9	185.9	184.0	182.1	176.6	178.4	185.9
125°	228.6	239.7	174.7	169.1	167.3	169.1	169.1	169.1	165.4	161.7	161.7
127.5°	215.6	219.3	165.4	158.0	156.1	156.1	156.1	158.0	156.1	150.5	150.5
130°	208.2	206.3	159.8	146.8	145.0	146.8	146.8	148.7	145.0	141.2	141.2
132.5°	193.3	189.6	152.4	139.4	137.5	139.4	139.4	139.4	135.7	132.0	132.0
135°	176.6	172.8	143.1	130.1	128.2	130.1	130.1	132.0	128.2	124.5	124.5
137.5°	163.5	159.8	133.8	122.7	120.8	120.8	122.7	122.7	120.8	117.1	117.1
140°	152.4	148.7	124.5	115.2	111.5	113.4	113.4	113.4	111.5	107.8	107.8
142.5°	143.1	141.2	115.2	105.9	102.2	104.1	104.1	105.9	102.2	98.5	98.5
145°	135.7	132.0	107.8	96.6	94.8	94.8	94.8	96.6	92.9	89.2	89.2
147.5°	128.2	124.5	98.5	87.4	85.5	85.5	85.5	85.5	83.6	79.9	78.1
150°	113.4	111.5	91.1	79.9	76.2	76.2	76.2	74.3	70.6	66.9	66.9
152.5°	96.6	94.8	79.9	70.6	66.9	66.9	65.0	65.0	61.3	59.5	57.6
155°	83.6	83.6	72.5	63.2	59.5	57.6	55.8	55.8	53.9	52.0	50.2
157.5°	74.3	72.5	65.0	57.6	50.2	50.2	48.3	48.3	46.5	44.6	42.7
160°	63.2	63.2	55.8	48.3	42.7	40.9	40.9	39.0	37.2	35.3	35.3
162.5°	50.2	50.2	44.6	39.0	33.5	33.5	31.6	31.6	29.7	27.9	26.0
165°	35.3	35.3	33.5	29.7	26.0	24.2	24.2	24.2	22.3	20.4	20.4
167.5°	24.2	24.2	22.3	20.4	18.6	16.7	18.6	18.6	16.7	14.9	14.9
170°	13.0	13.0	11.2	11.2	9.3	9.3	11.2	13.0	11.2	9.3	7.4
172.5°	5.6	5.6	5.6	5.6	3.7	5.6	7.4	9.3	7.4	5.6	5.6
175°	3.7	3.7	5.6	5.6	3.7	5.6	7.4	9.3	7.4	5.6	5.6
177.5°	3.7	3.7	5.6	5.6	3.7	5.6	7.4	9.3	7.4	5.6	5.6
180°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4

(END OF REPORT)