

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: P588404

Luminaire Tested: **ARC-CA6-120-730-U-33-X-5-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588404  
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-CA6-120-730-U-33-X-5-X  
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR  
Light Source: (6) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

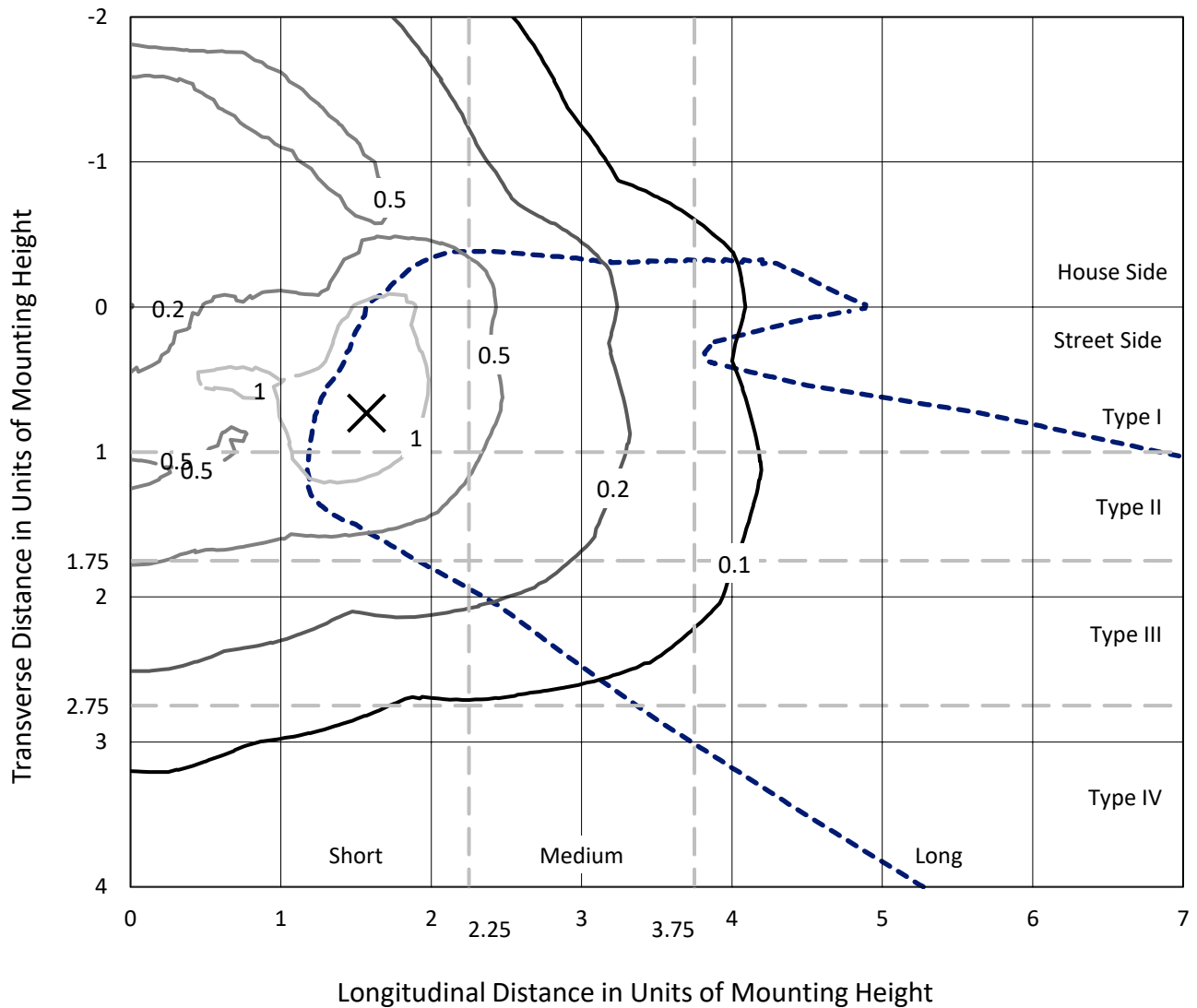
Lumens per Lamp: N/A  
Luminaire Lumens: 15860 lumens  
Efficiency: N/A  
Efficacy: 132.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B4 - U5 - G5  
  
Input Watts (W): 119.3  
Input Voltage (V): 120  
Input 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: P588404  
 CATALOG NUMBER: ARC-CA6-120-730-U-33-X-5-X

### Iso-Footcandle Lines of Horizontal Illumination

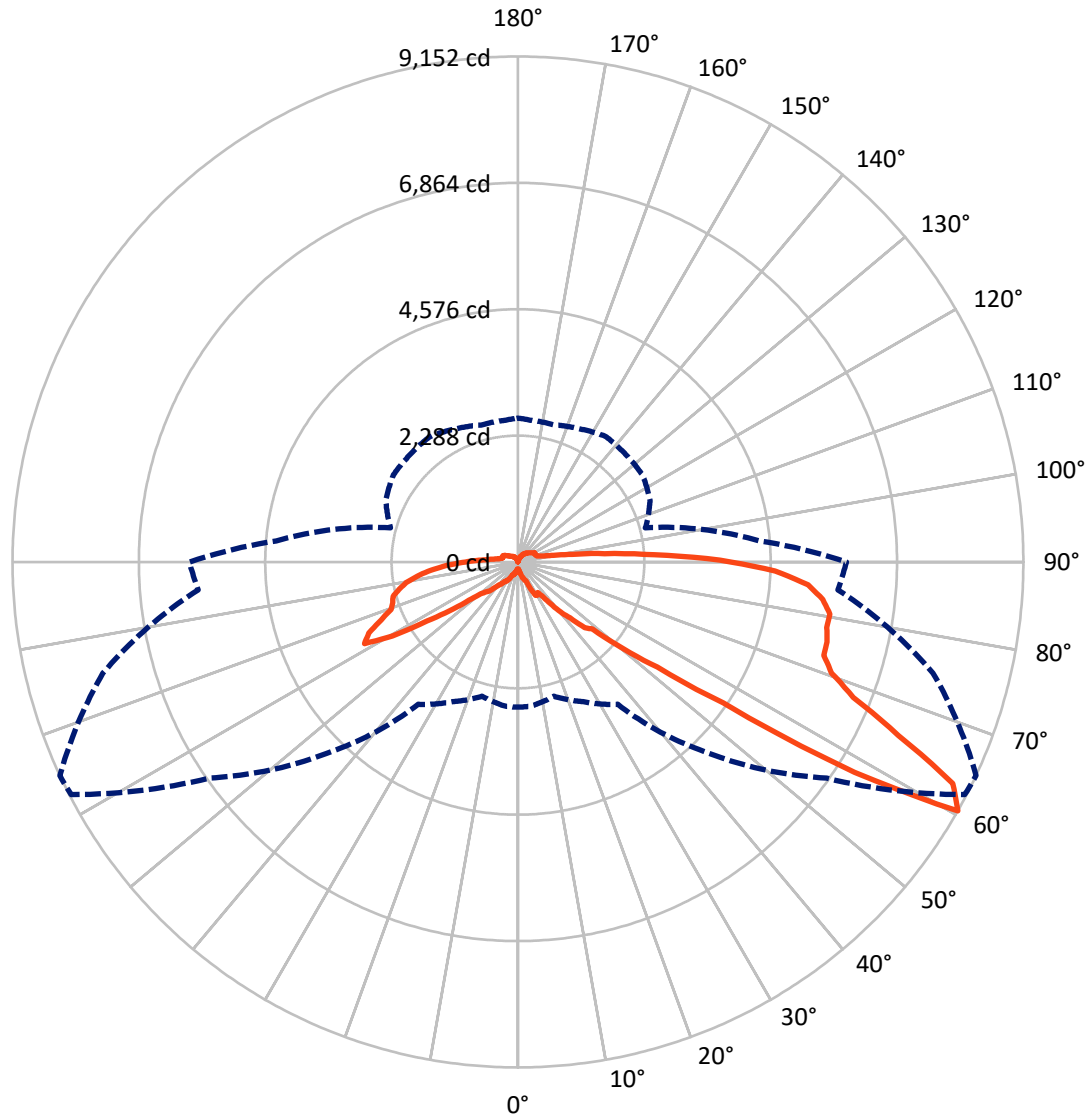
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type III - Short - Non-Cutoff

REPORT NUMBER: P588404  
CATALOG NUMBER: ARC-CA6-120-730-U-33-X-5-X

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P588404  
 CATALOG NUMBER: ARC-CA6-120-730-U-33-X-5-X

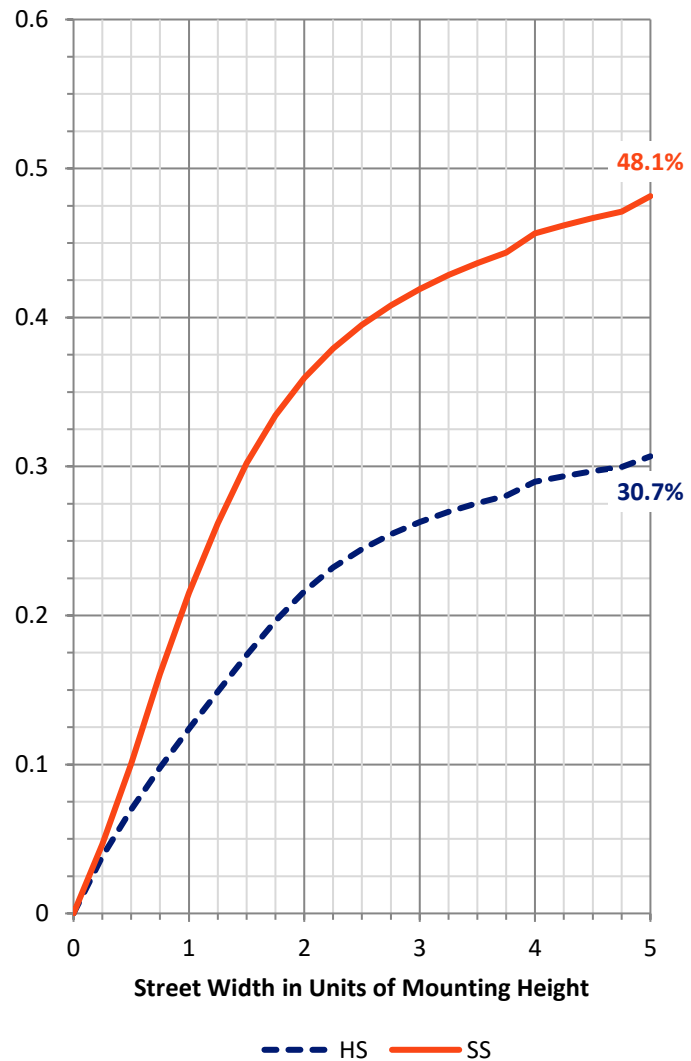
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5288.9	847.0	6135.9
	% Fixture	33.3	5.3	38.7
<b>Street Side</b>	Lumens	8461.6	1262.5	9724.1
	% Fixture	53.4	8.0	61.3
<b>Total</b>	Lumens	13750.5	2109.4	15860.0
	% Fixture	86.7	13.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.2	0.1
10°-20°	67.7	0.4
20°-30°	193.7	1.2
30°-40°	417.2	2.6
40°-50°	789.4	5.0
50°-60°	2205.1	13.9
60°-70°	3931.2	24.8
70°-80°	3441.8	21.7
80°-90°	2689.2	17.0
90°-100°	1016.7	6.4
100°-110°	349.7	2.2
110°-120°	285.9	1.8
120°-130°	192.1	1.2
130°-140°	131.8	0.8
140°-150°	82.9	0.5
150°-160°	38.4	0.2
160°-170°	10.9	0.1
170°-180°	1.0	0.0
0°-90°	13750.5	86.7
0°-180°	15860.0	100.0



REPORT NUMBER: P588404

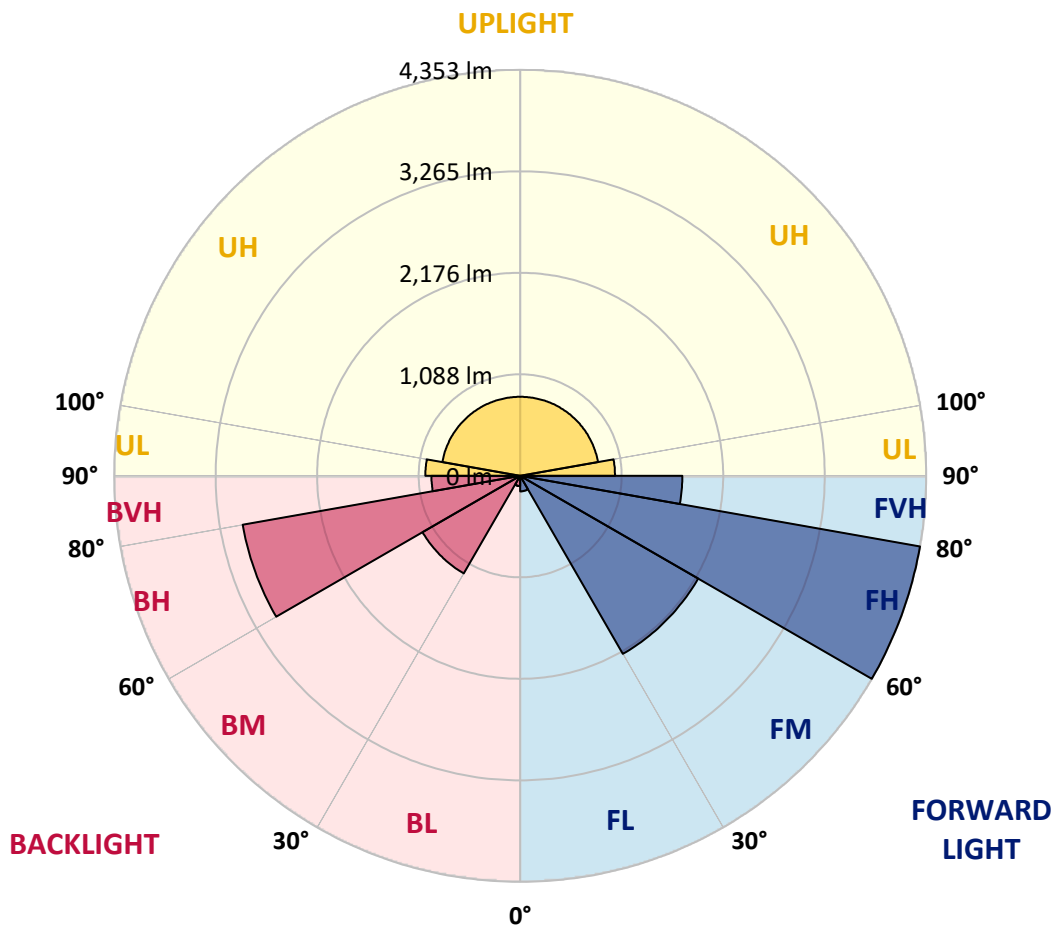
CATALOG NUMBER: ARC-CA6-120-730-U-33-X-5-X

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	167.1	1.1			
FM (30°-60°)	2203.6	13.9			
FH (60°-80°)	4352.7	27.4			G2/5000
FVH (80°-90°)	1738.2	11.0			G5
BL (0°-30°)	109.6	0.7	B0/110		
BM (30°-60°)	1208.0	7.6	B2/2500		
BH (60°-80°)	3020.4	19.0	B4/5000		G4/5000
BVH (80°-90°)	951.0	6.0			G5
UL (90°-100°)	1016.7	6.4		U5	
UH (100°-180°)	847.0	5.3		U4/1000	

**BUG Rating: B4-U5-G5**

Type III Short





REPORT NUMBER: P588404  
 CATALOG NUMBER: ARC-CA6-120-730-U-33-X-5-X

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3
2.5°	139.8	135.7	131.6	131.6	129.5	127.5	127.5	123.4	125.4	123.4	123.4
5°	164.5	162.4	158.3	160.4	156.3	154.2	154.2	152.2	150.1	148.0	141.9
7.5°	191.2	191.2	193.3	195.3	189.2	183.0	180.9	176.8	176.8	174.8	170.7
10°	220.0	218.0	209.7	209.7	205.6	201.5	203.6	201.5	201.5	201.5	193.3
12.5°	228.2	226.2	220.0	220.0	220.0	218.0	226.2	224.1	226.2	224.1	211.8
15°	257.0	255.0	252.9	255.0	263.2	279.6	300.2	292.0	294.0	289.9	244.7
17.5°	269.4	275.5	279.6	281.7	289.9	289.9	294.0	292.0	300.2	306.4	279.6
20°	312.5	308.4	312.5	326.9	347.5	349.6	343.4	343.4	347.5	349.6	298.2
22.5°	331.1	329.0	345.4	333.1	333.1	343.4	380.4	368.1	368.1	364.0	320.8
25°	429.8	438.0	454.4	475.0	524.3	538.7	579.9	534.6	540.8	477.0	407.1
27.5°	516.1	522.3	618.9	705.3	744.4	723.8	758.7	674.4	682.7	690.9	594.2
30°	542.8	555.2	695.0	758.7	810.2	769.0	814.3	703.2	697.1	744.4	705.3
32.5°	522.3	534.6	682.7	709.4	762.9	915.0	857.4	678.6	660.0	682.7	730.0
35°	573.7	581.9	670.3	606.6	655.9	1279.0	1122.7	791.6	754.6	629.2	699.1
37.5°	688.8	688.8	793.7	838.9	876.0	1509.3	1474.3	984.9	956.1	736.1	808.1
40°	834.8	830.7	960.3	991.1	1007.6	1367.4	1782.7	1256.4	1192.6	865.7	1052.8
42.5°	923.2	915.0	1019.9	1052.8	1052.8	1157.7	2017.2	1529.8	1381.8	1009.6	1287.2
45°	958.2	966.4	1102.1	1061.0	1091.9	1188.5	2268.0	1908.2	1700.5	1184.4	1492.8
47.5°	867.7	880.1	1075.4	1079.5	923.2	950.0	2033.6	1982.2	1811.5	1268.7	1558.6
50°	1065.1	1073.3	1143.3	1096.0	1019.9	1202.9	2422.2	2547.7	2473.6	1571.0	1645.0
52.5°	1462.0	1499.0	1564.8	1605.9	1583.3	2021.3	3248.8	3226.2	3164.5	2358.5	2245.4
55°	1893.8	1924.6	2017.2	2266.0	2455.1	3026.8	4040.5	4513.4	4509.3	3830.7	3499.7
57.5°	2286.5	2288.6	2300.9	2607.3	2899.3	3952.1	5292.7	7030.2	7186.5	6119.3	5011.0
60°	2627.9	2621.7	2516.8	2790.3	3146.0	4900.0	6822.6	9121.4	9152.3	7780.8	5812.9
62.5°	2720.4	2701.9	2549.7	2804.7	3109.0	4918.5	7213.2	8872.6	8837.7	7898.0	5917.8
65°	2640.2	2621.7	2428.4	2656.6	2800.6	4470.2	6662.2	7630.7	7573.1	7215.3	5634.1
67.5°	2520.9	2533.3	2342.0	2516.8	2615.5	4192.6	6082.3	6565.5	6549.1	6723.9	5397.6
70°	2348.2	2358.5	2183.7	2399.6	2543.6	4015.8	5527.1	6051.5	6022.7	6279.7	5050.1
72.5°	2354.4	2385.2	2177.5	2340.0	2490.1	3773.2	5276.3	5874.6	5790.3	5829.4	4632.7
75°	2370.8	2412.0	2191.9	2337.9	2477.8	3684.8	5247.5	5889.0	5782.1	5667.0	4474.3
77.5°	2377.0	2436.6	2200.2	2360.5	2481.9	3563.4	5181.7	5817.1	5716.3	5510.7	4287.2
80°	2327.6	2391.4	2165.2	2362.6	2455.1	3322.9	5015.1	5804.7	5728.6	5490.1	4211.1
82.5°	2228.9	2292.7	2097.3	2259.8	2403.7	3078.2	4780.7	5564.1	5560.0	5292.7	4050.8
85°	2013.0	2083.0	1934.9	2085.0	2261.8	2753.3	4307.8	5155.0	5268.0	5052.1	3834.9
87.5°	1805.4	1875.3	1797.1	1881.4	2060.3	2393.4	3701.2	4449.7	4661.5	4482.6	3294.1
90°	1568.9	1640.9	1577.1	1544.2	1688.2	1910.2	2958.9	3460.6	3660.1	3551.1	2424.3
92.5°	1256.4	1318.0	1258.4	1182.3	1268.7	1402.3	2198.1	2422.2	2469.5	2364.7	1589.5
95°	950.0	995.2	941.8	865.7	876.0	960.3	1515.4	1587.4	1575.1	1449.6	1009.6
97.5°	660.0	686.8	651.8	598.4	616.9	670.3	1003.4	995.2	995.2	886.2	660.0
100°	458.5	468.8	452.4	427.7	442.1	477.0	674.4	672.4	651.8	598.4	481.2
102.5°	364.0	366.0	349.6	333.1	324.9	357.8	487.3	485.3	489.4	464.7	376.3
105°	320.8	318.7	304.3	289.9	273.5	306.4	386.6	403.0	401.0	380.4	322.8
107.5°	294.0	292.0	277.6	265.3	250.9	279.6	335.2	357.8	355.7	353.7	304.3
110°	273.5	271.4	259.1	246.7	234.4	267.3	314.6	349.6	349.6	349.6	308.4



REPORT NUMBER: P588404

CATALOG NUMBER: ARC-CA6-120-730-U-33-X-5-X

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	259.1	259.1	248.8	238.5	228.2	265.3	302.3	343.4	343.4	353.7	322.8
115°	250.9	248.8	240.6	234.4	226.2	267.3	298.2	339.3	341.3	355.7	320.8
117.5°	244.7	242.6	236.5	228.2	224.1	263.2	300.2	347.5	345.4	368.1	314.6
120°	234.4	230.3	222.1	213.8	209.7	242.6	292.0	337.2	333.1	343.4	289.9
122.5°	226.2	213.8	199.5	193.3	193.3	220.0	273.5	304.3	300.2	292.0	261.1
125°	207.7	195.3	183.0	180.9	183.0	205.6	261.1	279.6	281.7	275.5	246.7
127.5°	187.1	178.9	172.7	172.7	176.8	201.5	257.0	269.4	269.4	257.0	234.4
130°	176.8	174.8	170.7	170.7	178.9	203.6	250.9	255.0	255.0	238.5	228.2
132.5°	172.7	168.6	164.5	164.5	172.7	197.4	234.4	242.6	240.6	224.1	215.9
135°	164.5	162.4	158.3	158.3	168.6	193.3	220.0	228.2	226.2	205.6	199.5
137.5°	160.4	156.3	156.3	156.3	166.6	191.2	207.7	213.8	211.8	191.2	185.1
140°	154.2	152.2	148.0	148.0	162.4	185.1	195.3	197.4	195.3	178.9	172.7
142.5°	143.9	141.9	139.8	143.9	158.3	174.8	183.0	183.0	180.9	170.7	162.4
145°	137.8	135.7	133.7	143.9	156.3	164.5	172.7	166.6	166.6	160.4	152.2
147.5°	131.6	129.5	129.5	137.8	148.0	148.0	154.2	152.2	154.2	152.2	143.9
150°	119.3	117.2	117.2	123.4	125.4	125.4	131.6	131.6	131.6	131.6	125.4
152.5°	104.9	102.8	104.9	106.9	106.9	106.9	111.0	113.1	113.1	111.0	109.0
155°	90.5	90.5	90.5	92.5	92.5	90.5	96.6	96.6	96.6	96.6	94.6
157.5°	80.2	80.2	80.2	80.2	80.2	78.1	82.2	82.2	84.3	82.2	82.2
160°	69.9	67.9	67.9	67.9	67.9	65.8	67.9	67.9	67.9	69.9	69.9
162.5°	55.5	53.5	53.5	53.5	53.5	49.3	53.5	51.4	53.5	53.5	55.5
165°	45.2	43.2	43.2	43.2	41.1	39.1	41.1	39.1	39.1	39.1	41.1
167.5°	35.0	35.0	32.9	35.0	32.9	28.8	28.8	26.7	26.7	26.7	26.7
170°	26.7	24.7	22.6	24.7	22.6	18.5	18.5	16.4	16.4	14.4	14.4
172.5°	18.5	16.4	14.4	16.4	14.4	10.3	10.3	6.2	6.2	6.2	6.2
175°	16.4	14.4	12.3	14.4	12.3	8.2	6.2	4.1	4.1	4.1	4.1
177.5°	16.4	14.4	12.3	14.4	12.3	8.2	6.2	4.1	4.1	4.1	4.1
180°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2





REPORT NUMBER: P588404

CATALOG NUMBER: ARC-CA6-120-730-U-33-X-5-X

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3
2.5°	123.4	121.3	119.3	123.4	121.3	123.4	125.4	127.5	127.5	125.4	125.4
5°	141.9	139.8	135.7	133.7	129.5	129.5	129.5	133.7	133.7	131.6	133.7
7.5°	168.6	164.5	158.3	154.2	148.0	148.0	146.0	150.1	152.2	148.0	150.1
10°	189.2	187.1	178.9	172.7	166.6	164.5	164.5	166.6	166.6	164.5	164.5
12.5°	207.7	203.6	195.3	189.2	180.9	178.9	178.9	180.9	180.9	178.9	178.9
15°	234.4	222.1	213.8	207.7	199.5	197.4	195.3	197.4	199.5	195.3	195.3
17.5°	271.4	257.0	238.5	222.1	213.8	218.0	220.0	222.1	220.0	213.8	213.8
20°	292.0	283.8	259.1	246.7	236.5	236.5	236.5	236.5	236.5	234.4	236.5
22.5°	306.4	294.0	263.2	255.0	248.8	252.9	257.0	259.1	259.1	257.0	257.0
25°	372.2	326.9	296.1	289.9	281.7	283.8	279.6	279.6	281.7	279.6	283.8
27.5°	512.0	438.0	368.1	343.4	337.2	337.2	341.3	341.3	341.3	341.3	339.3
30°	614.8	528.4	413.3	380.4	376.3	394.8	405.1	413.3	409.2	403.0	403.0
32.5°	631.3	536.7	421.5	409.2	419.5	433.9	444.1	450.3	456.5	454.4	452.4
35°	596.3	495.6	415.4	431.8	440.0	448.3	450.3	446.2	464.7	472.9	475.0
37.5°	666.2	555.2	483.2	495.6	485.3	477.0	481.2	483.2	507.9	520.2	532.6
40°	851.3	670.3	549.0	542.8	536.7	555.2	579.9	592.2	590.1	581.9	584.0
42.5°	1030.2	783.4	618.9	616.9	614.8	647.7	686.8	684.7	666.2	651.8	651.8
45°	1213.2	892.4	730.0	732.0	727.9	740.2	750.5	742.3	744.4	748.5	752.6
47.5°	1326.3	991.1	799.9	793.7	767.0	791.6	820.4	801.9	795.8	785.5	789.6
50°	1353.0	1015.8	841.0	886.2	861.6	843.1	812.2	799.9	822.5	838.9	851.3
52.5°	1758.1	1254.3	1050.7	1122.7	1089.8	1024.0	1017.8	997.3	1021.9	1024.0	1038.4
55°	2946.6	2011.0	1447.6	1517.5	1519.6	1496.9	1599.7	1542.2	1490.8	1468.1	1459.9
57.5°	4645.0	3109.0	1873.2	1961.6	2045.9	2126.1	2266.0	2148.8	2000.7	1982.2	2002.8
60°	5948.7	4390.0	2389.3	2638.1	2751.2	2755.3	2773.8	2658.7	2568.2	2576.4	2605.2
62.5°	6228.3	5459.3	3043.2	3146.0	3156.3	3080.2	3113.1	3187.1	3059.7	2958.9	2985.6
65°	6041.2	5882.9	3257.1	2989.8	2973.3	2985.6	3209.8	3415.4	3158.4	2903.4	2903.4
67.5°	5679.3	5560.0	3039.1	2689.5	2734.8	2874.6	3158.4	3261.2	2987.7	2716.3	2716.3
70°	5292.7	5054.2	2794.4	2451.0	2562.1	2724.5	2909.6	2917.8	2757.4	2564.1	2551.8
72.5°	4875.3	4659.4	2689.5	2381.1	2432.5	2461.3	2562.1	2625.8	2607.3	2481.9	2479.8
75°	4751.9	4577.2	2687.5	2348.2	2317.4	2307.1	2377.0	2514.8	2578.5	2504.5	2508.6
77.5°	4564.8	4460.0	2562.1	2210.4	2177.5	2177.5	2214.6	2325.6	2422.2	2391.4	2401.7
80°	4435.3	4276.9	2370.8	2060.3	2015.1	2021.3	2025.4	2101.5	2191.9	2196.0	2196.0
82.5°	4186.5	3888.3	2080.9	1836.2	1805.4	1813.6	1799.2	1842.4	1867.1	1897.9	1891.7
85°	3777.3	3355.8	1758.1	1591.5	1542.2	1525.7	1513.4	1515.4	1529.8	1523.7	1499.0
87.5°	3164.5	2660.8	1402.3	1305.7	1248.1	1207.0	1190.6	1170.0	1167.9	1145.3	1153.5
90°	2335.9	1825.9	1040.4	1005.5	964.4	921.2	898.6	878.0	861.6	838.9	830.7
92.5°	1523.7	1176.2	760.8	742.3	715.6	690.9	680.6	670.3	666.2	647.7	653.9
95°	952.0	795.8	571.6	551.1	536.7	530.5	532.6	534.6	530.5	509.9	516.1
97.5°	635.4	575.7	446.2	431.8	417.4	415.4	417.4	421.5	423.6	409.2	413.3
100°	468.8	442.1	366.0	355.7	343.4	339.3	341.3	345.4	347.5	335.2	337.2
102.5°	372.2	359.8	316.7	312.5	298.2	294.0	298.2	300.2	302.3	294.0	294.0
105°	326.9	326.9	292.0	289.9	279.6	275.5	277.6	279.6	281.7	273.5	273.5
107.5°	314.6	316.7	281.7	283.8	277.6	275.5	279.6	283.8	281.7	275.5	273.5
110°	324.9	329.0	281.7	287.9	289.9	294.0	302.3	304.3	304.3	300.2	302.3



REPORT NUMBER: P588404

CATALOG NUMBER: ARC-CA6-120-730-U-33-X-5-X

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	335.2	341.3	277.6	292.0	306.4	316.7	331.1	339.3	335.2	333.1	335.2
115°	326.9	331.1	259.1	281.7	308.4	322.8	326.9	326.9	316.7	316.7	318.7
117.5°	316.7	324.9	240.6	259.1	277.6	289.9	287.9	281.7	269.4	265.3	277.6
120°	294.0	318.7	230.3	234.4	236.5	240.6	234.4	228.2	218.0	215.9	224.1
122.5°	271.4	294.0	211.8	207.7	205.6	205.6	203.6	201.5	195.3	197.4	205.6
125°	252.9	265.3	193.3	187.1	185.1	187.1	187.1	187.1	183.0	178.9	178.9
127.5°	238.5	242.6	183.0	174.8	172.7	172.7	172.7	174.8	172.7	166.6	166.6
130°	230.3	228.2	176.8	162.4	160.4	162.4	162.4	164.5	160.4	156.3	156.3
132.5°	213.8	209.7	168.6	154.2	152.2	154.2	154.2	154.2	150.1	146.0	146.0
135°	195.3	191.2	158.3	143.9	141.9	143.9	143.9	146.0	141.9	137.8	137.8
137.5°	180.9	176.8	148.0	135.7	133.7	133.7	135.7	135.7	133.7	129.5	129.5
140°	168.6	164.5	137.8	127.5	123.4	125.4	125.4	125.4	123.4	119.3	119.3
142.5°	158.3	156.3	127.5	117.2	113.1	115.1	115.1	117.2	113.1	109.0	109.0
145°	150.1	146.0	119.3	106.9	104.9	104.9	104.9	106.9	102.8	98.7	98.7
147.5°	141.9	137.8	109.0	96.6	94.6	94.6	94.6	94.6	92.5	88.4	86.4
150°	125.4	123.4	100.8	88.4	84.3	84.3	84.3	82.2	78.1	74.0	74.0
152.5°	106.9	104.9	88.4	78.1	74.0	74.0	72.0	72.0	67.9	65.8	63.7
155°	92.5	92.5	80.2	69.9	65.8	63.7	61.7	61.7	59.6	57.6	55.5
157.5°	82.2	80.2	72.0	63.7	55.5	55.5	53.5	53.5	51.4	49.3	47.3
160°	69.9	69.9	61.7	53.5	47.3	45.2	45.2	43.2	41.1	39.1	39.1
162.5°	55.5	55.5	49.3	43.2	37.0	37.0	35.0	35.0	32.9	30.8	28.8
165°	39.1	39.1	37.0	32.9	28.8	26.7	26.7	26.7	24.7	22.6	22.6
167.5°	26.7	26.7	24.7	22.6	20.6	18.5	20.6	20.6	18.5	16.4	16.4
170°	14.4	14.4	12.3	12.3	10.3	10.3	12.3	14.4	12.3	10.3	8.2
172.5°	6.2	6.2	6.2	6.2	4.1	6.2	8.2	10.3	8.2	6.2	6.2
175°	4.1	4.1	6.2	6.2	4.1	6.2	8.2	10.3	8.2	6.2	6.2
177.5°	4.1	4.1	6.2	6.2	4.1	6.2	8.2	10.3	8.2	6.2	6.2
180°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2

(END OF REPORT)