

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: P588602

Luminaire Tested: **ARC-CA6-130-727-U-33-X-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588602
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-CA6-130-727-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: 7712 lumens
Efficiency: N/A
Efficacy: 123.2 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

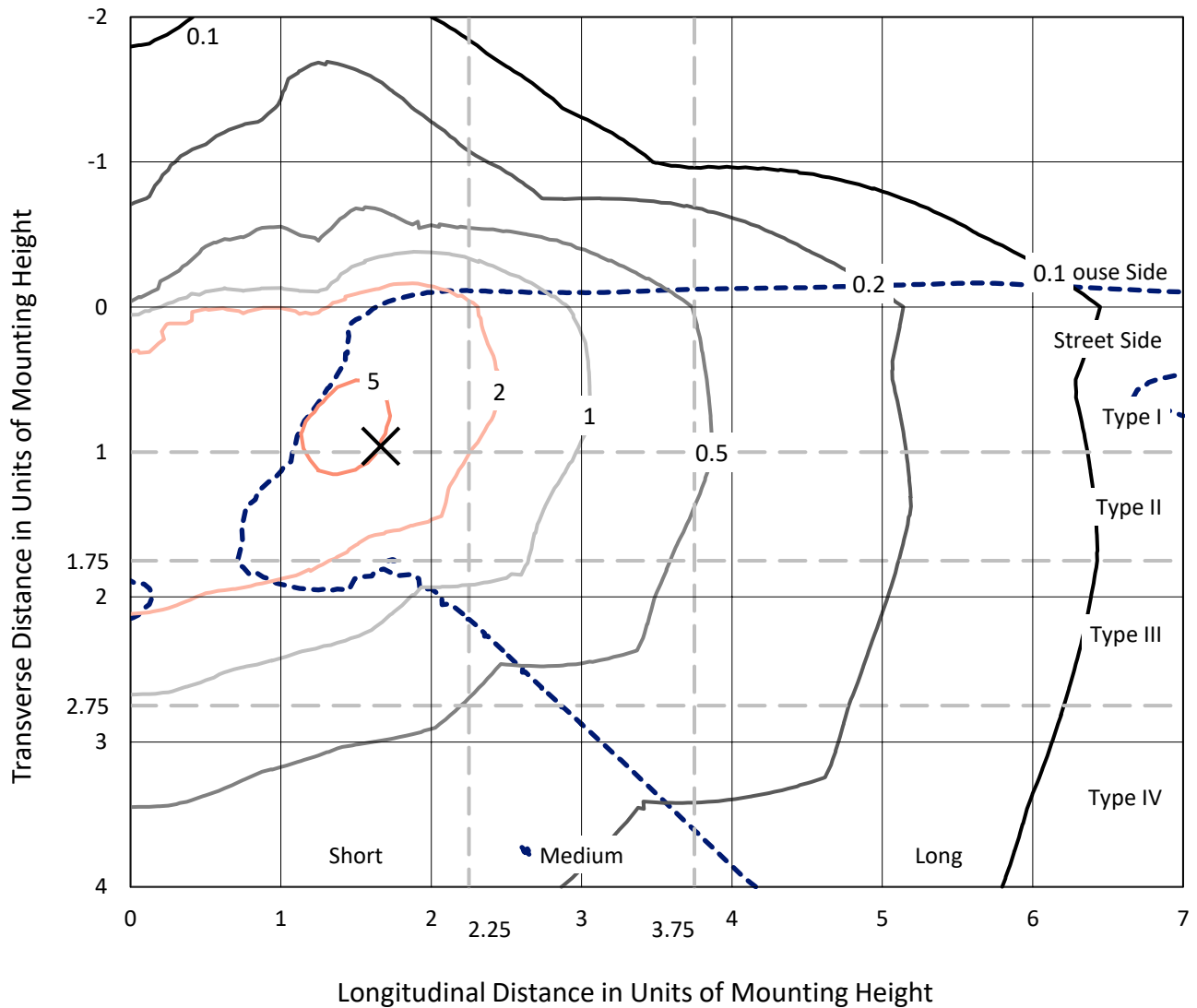
Input Watts (W): 62.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P588602
 CATALOG NUMBER: ARC-CA6-130-727-U-33-X-5-X-GHSS

Iso-Footcandle Lines of Horizontal Illumination

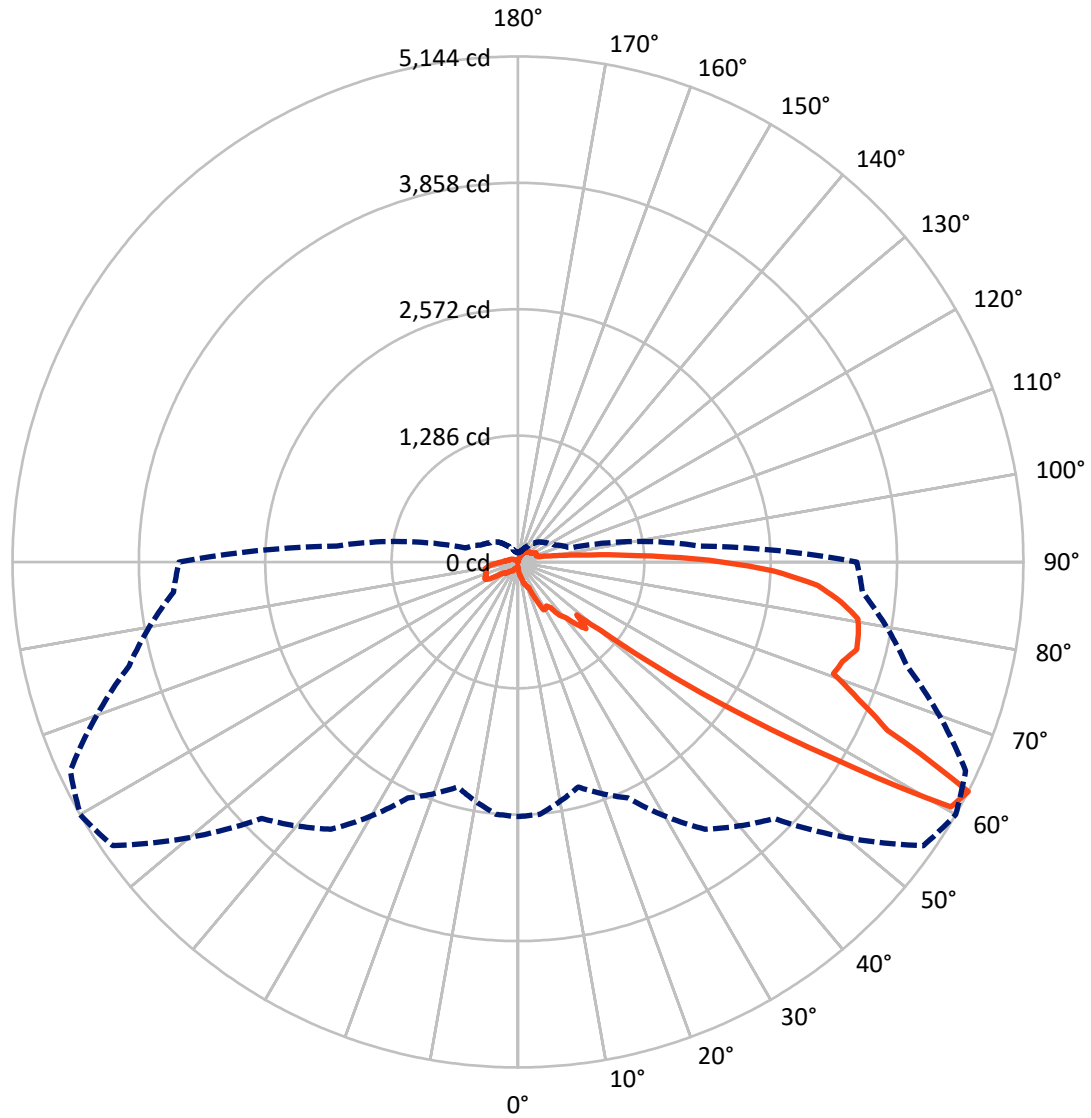
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P588602
CATALOG NUMBER: ARC-CA6-130-727-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: P588602

CATALOG NUMBER: ARC-CA6-130-727-U-33-X-5-X-GHSS

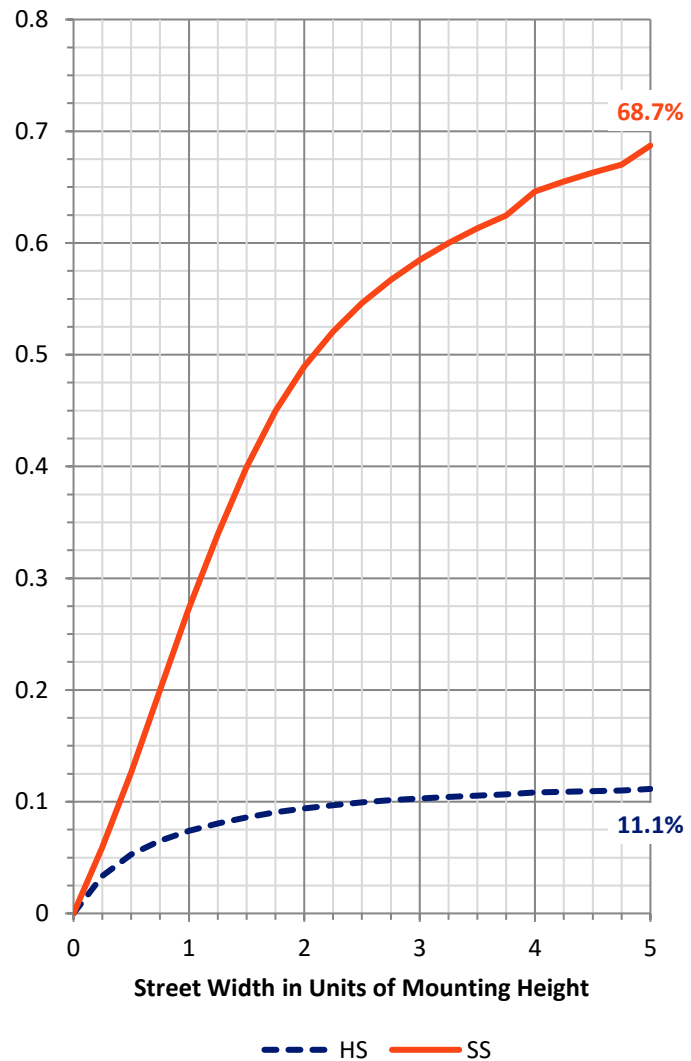
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	904.7	180.4	1085.1
	% Fixture	11.7	2.3	14.1
Street Side	Lumens	5890.8	736.1	6626.9
	% Fixture	76.4	9.5	85.9
Total	Lumens	6795.5	916.5	7712.0
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.0	0.1
10°-20°	37.1	0.5
20°-30°	110.3	1.4
30°-40°	221.6	2.9
40°-50°	390.0	5.1
50°-60°	1076.7	14.0
60°-70°	1861.5	24.1
70°-80°	1727.9	22.4
80°-90°	1362.5	17.7
90°-100°	432.3	5.6
100°-110°	154.2	2.0
110°-120°	126.7	1.6
120°-130°	83.3	1.1
130°-140°	59.3	0.8
140°-150°	38.4	0.5
150°-160°	17.6	0.2
160°-170°	4.4	0.1
170°-180°	0.2	0.0
0°-90°	6795.5	88.1
0°-180°	7712.0	100.0



REPORT NUMBER: P588602

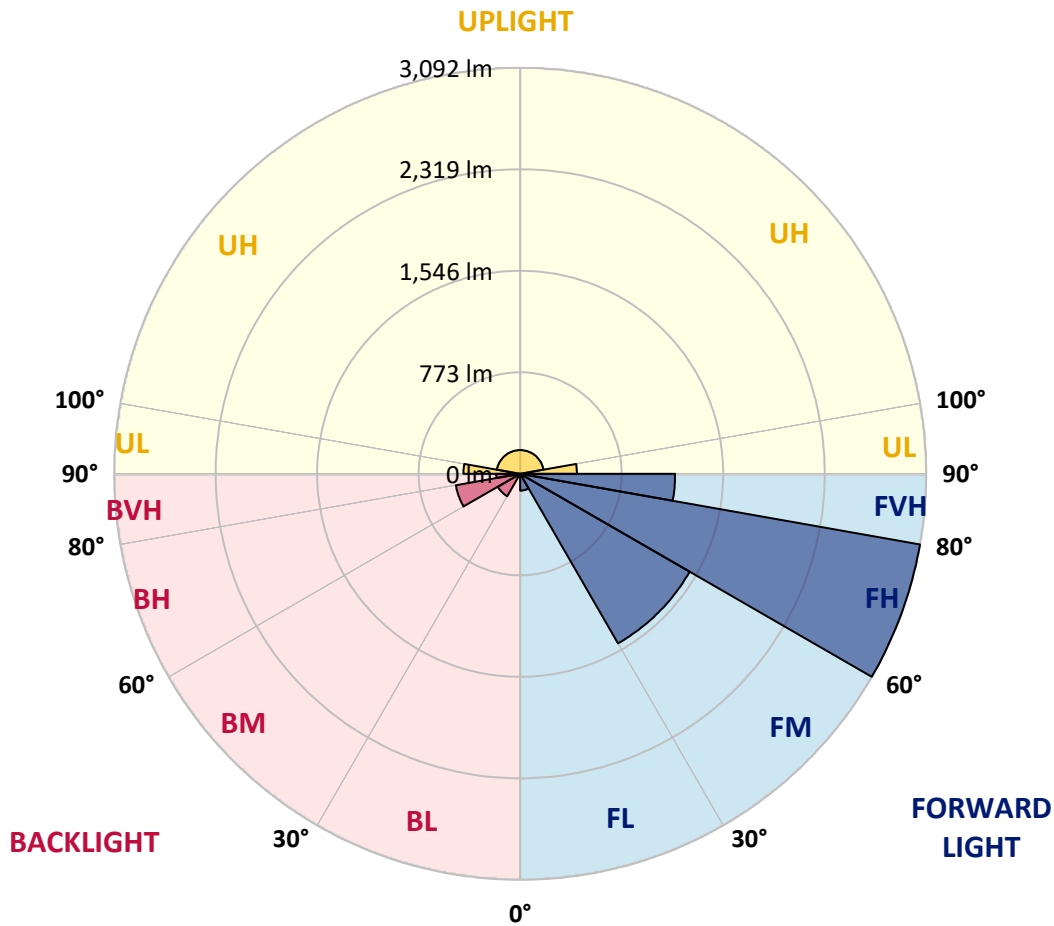
CATALOG NUMBER: ARC-CA6-130-727-U-33-X-5-X-GHSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	128.0	1.7			
FM (30°-60°)	1491.2	19.3			
FH (60°-80°)	3091.8	40.1			G2/5000
FVH (80°-90°)	1179.8	15.3			G5
BL (0°-30°)	27.4	0.4	B0/110		
BM (30°-60°)	197.0	2.6	B0/220		
BH (60°-80°)	497.6	6.5	B1/500		G1/500
BVH (80°-90°)	182.7	2.4			G2/225
UL (90°-100°)	432.3	5.6		U3/500	
UH (100°-180°)	180.4	2.3		U3/500	

BUG Rating: B1-U3-G5

Type III Short





REPORT NUMBER: P588602
 CATALOG NUMBER: ARC-CA6-130-727-U-33-X-5-X-GHSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
2.5°	91.4	89.0	90.2	90.2	91.4	86.6	81.9	78.3	74.8	70.0	64.1
5°	130.6	128.2	124.6	123.4	121.1	116.3	109.2	106.8	99.7	90.2	78.3
7.5°	159.0	157.8	156.7	153.1	150.7	143.6	135.3	131.7	123.4	110.4	96.1
10°	180.4	180.4	181.6	175.7	165.0	159.0	151.9	149.5	143.6	125.8	108.0
12.5°	198.2	195.8	186.3	181.6	176.8	178.0	179.2	178.0	175.7	146.0	121.1
15°	214.8	212.4	205.3	199.4	195.8	207.7	233.8	231.4	230.2	184.0	141.2
17.5°	226.7	226.7	233.8	238.6	244.5	226.7	221.9	229.1	237.4	202.9	160.2
20°	261.1	256.4	250.4	245.7	275.3	262.3	267.0	275.3	281.3	226.7	175.7
22.5°	245.7	246.9	273.0	282.5	268.2	261.1	277.7	281.3	282.5	259.9	182.8
25°	335.9	320.4	311.0	340.6	338.2	390.5	405.9	416.6	416.6	352.5	255.2
27.5°	464.1	464.1	504.4	582.7	569.7	570.9	553.1	551.9	574.4	595.8	388.1
30°	503.2	516.3	629.0	668.2	710.9	657.5	599.4	554.3	563.7	678.9	452.2
32.5°	515.1	527.0	663.4	620.7	636.1	614.8	623.1	531.7	509.2	625.5	440.3
35°	449.8	466.4	578.0	523.4	493.7	557.8	635.0	569.7	559.0	513.9	398.8
37.5°	600.5	608.8	648.0	639.7	649.2	652.8	745.3	686.0	697.9	620.7	504.4
40°	689.6	680.1	833.2	870.0	855.7	842.7	834.3	743.0	757.2	719.2	682.4
42.5°	847.4	836.7	944.7	967.3	970.8	936.4	975.6	860.5	824.9	746.5	849.8
45°	858.1	864.0	966.1	907.9	968.5	1031.4	1102.6	969.6	905.6	773.8	987.4
47.5°	759.6	785.7	1010.0	959.0	899.6	843.8	871.1	803.5	751.3	612.4	949.5
50°	775.0	785.7	929.3	868.8	722.8	894.9	1134.6	1086.0	1029.0	759.6	915.1
52.5°	1096.6	1091.9	1154.8	1158.4	1195.1	1343.5	1817.0	1777.9	1787.4	1478.8	1362.5
55°	1503.7	1501.4	1660.4	1914.4	2124.4	2196.8	2815.2	2660.9	2590.9	2291.8	2405.7
57.5°	1944.0	1964.2	2034.2	2390.3	2749.9	2843.7	3812.1	3732.6	3578.3	2989.6	3293.5
60°	2408.1	2396.2	2293.0	2526.8	3102.4	3570.0	5022.7	5060.7	4753.3	3763.5	3594.9
62.5°	2590.9	2575.4	2370.1	2649.0	3319.6	3691.1	5034.6	5143.8	5026.3	4098.2	3519.0
65°	2560.0	2524.4	2251.4	2471.0	2802.1	3140.4	4494.6	4132.6	4324.8	4190.7	3326.7
67.5°	2439.0	2430.6	2176.7	2297.7	2513.7	2557.6	4105.3	3739.7	3808.6	4273.8	3383.7
70°	2287.0	2284.7	2092.4	2183.8	2491.2	2446.1	3800.3	3407.4	3367.1	3825.2	3397.9
72.5°	2291.8	2289.4	2077.0	2107.8	2437.8	2364.2	3768.2	3454.9	3381.3	3604.4	3234.1
75°	2331.0	2333.3	2107.8	2142.2	2512.5	2380.8	3844.2	3560.5	3485.7	3583.1	3103.6
77.5°	2293.0	2312.0	2090.0	2167.2	2560.0	2378.4	3808.6	3540.3	3434.7	3407.4	2854.3
80°	2166.0	2192.1	1992.7	2081.7	2517.3	2410.5	3778.9	3509.5	3375.4	3225.8	2675.1
82.5°	1900.1	1927.4	1774.3	1856.2	2341.6	2278.7	3571.2	3310.1	3190.2	2929.1	2441.3
85°	1633.1	1696.0	1621.2	1633.1	2067.5	2086.5	3291.1	3060.9	2977.8	2749.9	2361.8
87.5°	1348.2	1402.8	1332.8	1248.6	1548.8	1658.0	2721.4	2607.5	2584.9	2427.1	2049.7
90°	998.1	1048.0	1006.4	896.1	1049.2	1118.0	2005.8	1942.9	1991.5	1811.1	1408.8
92.5°	724.0	732.3	683.6	592.2	699.0	732.3	1315.0	1218.9	1275.9	1109.7	826.0
95°	484.2	504.4	466.4	427.3	506.8	510.3	810.6	739.4	708.5	637.3	493.7
97.5°	354.9	356.1	341.8	306.2	356.1	360.8	538.8	485.4	458.1	428.4	341.8
100°	281.3	281.3	259.9	237.4	248.0	257.5	375.0	338.2	324.0	311.0	257.5
102.5°	245.7	244.5	226.7	204.1	202.9	207.7	283.7	258.7	248.0	239.7	202.9
105°	232.6	231.4	213.6	189.9	184.0	180.4	236.2	219.6	212.4	205.3	182.8
107.5°	230.2	227.9	210.1	188.7	179.2	169.7	212.4	198.2	199.4	192.3	175.7
110°	232.6	232.6	217.2	204.1	188.7	175.7	213.6	198.2	202.9	200.6	182.8



REPORT NUMBER: P588602

CATALOG NUMBER: ARC-CA6-130-727-U-33-X-5-X-GHSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	226.7	232.6	226.7	218.4	201.8	191.1	223.1	205.3	211.3	211.3	188.7
115°	213.6	219.6	219.6	211.3	195.8	192.3	220.8	205.3	207.7	204.1	175.7
117.5°	195.8	199.4	197.0	187.5	174.5	172.1	205.3	198.2	198.2	187.5	163.8
120°	182.8	175.7	166.2	159.0	151.9	157.8	185.1	178.0	172.1	167.3	149.5
122.5°	163.8	155.5	144.8	141.2	136.5	144.8	168.5	162.6	156.7	154.3	141.2
125°	135.3	135.3	130.6	128.2	127.0	138.9	166.2	160.2	151.9	147.2	131.7
127.5°	130.6	130.6	127.0	124.6	125.8	140.0	162.6	156.7	147.2	141.2	127.0
130°	131.7	129.4	124.6	121.1	122.2	138.9	161.4	154.3	144.8	140.0	127.0
132.5°	124.6	122.2	118.7	116.3	115.1	131.7	153.1	149.5	142.4	131.7	117.5
135°	121.1	118.7	116.3	115.1	115.1	128.2	146.0	142.4	135.3	123.4	108.0
137.5°	119.9	117.5	112.7	111.6	110.4	122.2	136.5	134.1	127.0	116.3	103.3
140°	113.9	110.4	106.8	105.6	105.6	115.1	129.4	127.0	119.9	111.6	99.7
142.5°	105.6	103.3	99.7	99.7	100.9	110.4	125.8	124.6	116.3	106.8	96.1
145°	100.9	98.5	96.1	97.3	98.5	106.8	118.7	117.5	111.6	103.3	92.6
147.5°	92.6	91.4	89.0	87.8	90.2	97.3	110.4	110.4	106.8	96.1	85.5
150°	80.7	79.5	77.1	76.0	78.3	85.5	96.1	96.1	92.6	81.9	72.4
152.5°	67.6	66.5	66.5	67.6	70.0	73.6	83.1	84.3	80.7	70.0	61.7
155°	59.3	58.2	58.2	59.3	62.9	66.5	72.4	72.4	68.8	61.7	53.4
157.5°	51.0	49.8	49.8	51.0	54.6	57.0	62.9	61.7	59.3	53.4	46.3
160°	39.2	38.0	38.0	39.2	42.7	45.1	49.8	49.8	48.7	45.1	39.2
162.5°	29.7	28.5	28.5	29.7	32.0	33.2	36.8	38.0	38.0	35.6	30.9
165°	22.5	21.4	21.4	21.4	23.7	24.9	26.1	26.1	26.1	24.9	21.4
167.5°	14.2	13.1	13.1	14.2	15.4	15.4	16.6	16.6	15.4	15.4	13.1
170°	7.1	5.9	5.9	7.1	7.1	7.1	5.9	4.7	4.7	4.7	4.7
172.5°	2.4	1.2	3.6	3.6	2.4	0.0	0.0	1.2	1.2	1.2	0.0
175°	2.4	1.2	3.6	3.6	2.4	0.0	0.0	1.2	0.0	1.2	0.0
177.5°	1.2	1.2	3.6	3.6	2.4	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: P588602

CATALOG NUMBER: ARC-CA6-130-727-U-33-X-5-X-GHSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
2.5°	61.7	60.5	55.8	48.7	41.5	34.4	33.2	34.4	35.6	36.8	38.0
5°	73.6	68.8	59.3	48.7	39.2	29.7	24.9	22.5	21.4	22.5	23.7
7.5°	89.0	83.1	71.2	58.2	46.3	36.8	30.9	24.9	21.4	21.4	22.5
10°	99.7	92.6	78.3	64.1	52.2	41.5	34.4	28.5	24.9	22.5	22.5
12.5°	111.6	102.1	83.1	67.6	54.6	45.1	38.0	32.0	28.5	26.1	26.1
15°	124.6	113.9	91.4	71.2	58.2	47.5	41.5	35.6	30.9	28.5	28.5
17.5°	146.0	128.2	96.1	74.8	60.5	49.8	42.7	36.8	32.0	29.7	29.7
20°	155.5	135.3	97.3	78.3	64.1	52.2	43.9	36.8	33.2	30.9	30.9
22.5°	155.5	134.1	99.7	80.7	67.6	54.6	45.1	38.0	33.2	30.9	30.9
25°	195.8	147.2	102.1	86.6	71.2	57.0	47.5	39.2	34.4	32.0	32.0
27.5°	274.2	192.3	117.5	92.6	76.0	60.5	49.8	41.5	35.6	33.2	33.2
30°	301.5	214.8	134.1	108.0	83.1	64.1	52.2	43.9	38.0	34.4	34.4
32.5°	307.4	211.3	143.6	118.7	94.9	70.0	54.6	46.3	39.2	35.6	35.6
35°	277.7	195.8	143.6	123.4	102.1	78.3	60.5	48.7	40.4	36.8	35.6
37.5°	324.0	211.3	147.2	124.6	105.6	84.3	67.6	52.2	42.7	38.0	38.0
40°	419.0	250.4	165.0	131.7	106.8	87.8	74.8	58.2	46.3	40.4	40.4
42.5°	490.2	282.5	184.0	149.5	116.3	92.6	77.1	62.9	51.0	43.9	42.7
45°	550.7	313.3	200.6	166.2	132.9	103.3	81.9	67.6	55.8	48.7	47.5
47.5°	561.4	328.8	213.6	182.8	146.0	113.9	89.0	72.4	61.7	53.4	52.2
50°	542.4	329.9	218.4	193.5	160.2	125.8	97.3	78.3	66.5	58.2	58.2
52.5°	775.0	411.8	239.7	199.4	165.0	135.3	108.0	85.5	71.2	64.1	64.1
55°	1398.1	665.8	309.8	236.2	176.8	142.4	117.5	96.1	78.3	70.0	70.0
57.5°	2259.7	1039.7	409.5	315.7	227.9	165.0	128.2	106.8	87.8	76.0	76.0
60°	2994.4	1466.9	498.5	384.5	299.1	226.7	155.5	121.1	98.5	84.3	83.1
62.5°	3447.8	1851.5	550.7	410.6	341.8	287.2	208.9	151.9	111.6	96.1	93.8
65°	3346.9	2043.7	573.2	408.3	339.4	306.2	249.2	188.7	134.1	110.4	106.8
67.5°	3073.9	2044.9	569.7	390.5	321.6	290.8	248.0	204.1	155.5	124.6	119.9
70°	2937.4	2009.3	551.9	377.4	307.4	271.8	230.2	187.5	153.1	132.9	130.6
72.5°	2872.1	1985.6	541.2	375.0	305.0	264.7	218.4	167.3	137.7	127.0	129.4
75°	2887.6	1999.8	545.9	378.6	309.8	268.2	213.6	155.5	121.1	109.2	111.6
77.5°	2853.2	1971.3	553.1	377.4	307.4	262.3	199.4	142.4	110.4	98.5	97.3
80°	2881.6	1909.6	536.5	365.5	289.6	238.6	176.8	127.0	100.9	92.6	91.4
82.5°	2663.3	1662.8	477.1	333.5	262.3	205.3	148.4	111.6	94.9	85.5	85.5
85°	2441.3	1348.2	409.5	293.1	216.0	161.4	118.7	97.3	83.1	76.0	76.0
87.5°	1852.7	966.1	316.9	240.9	180.4	138.9	108.0	93.8	81.9	77.1	76.0
90°	1145.3	595.8	236.2	192.3	153.1	123.4	102.1	90.2	80.7	77.1	77.1
92.5°	640.9	381.0	182.8	157.8	131.7	110.4	93.8	81.9	73.6	70.0	70.0
95°	434.4	284.8	156.7	141.2	117.5	97.3	81.9	71.2	64.1	59.3	59.3
97.5°	314.5	224.3	138.9	127.0	105.6	85.5	72.4	61.7	55.8	53.4	53.4
100°	240.9	181.6	125.8	113.9	93.8	74.8	62.9	53.4	47.5	45.1	45.1
102.5°	193.5	153.1	113.9	103.3	83.1	66.5	53.4	43.9	39.2	38.0	36.8
105°	174.5	142.4	106.8	96.1	76.0	60.5	47.5	39.2	34.4	32.0	32.0
107.5°	169.7	142.4	105.6	93.8	72.4	57.0	42.7	35.6	30.9	28.5	28.5
110°	180.4	150.7	106.8	91.4	67.6	52.2	39.2	32.0	27.3	26.1	26.1



REPORT NUMBER: P588602

CATALOG NUMBER: ARC-CA6-130-727-U-33-X-5-X-GHSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	186.3	151.9	102.1	85.5	62.9	47.5	36.8	29.7	26.1	23.7	23.7
115°	170.9	136.5	93.8	76.0	55.8	42.7	34.4	28.5	23.7	21.4	21.4
117.5°	165.0	128.2	91.4	66.5	51.0	39.2	32.0	26.1	22.5	20.2	20.2
120°	165.0	124.6	80.7	58.2	46.3	35.6	29.7	23.7	20.2	19.0	19.0
122.5°	159.0	115.1	71.2	51.0	40.4	30.9	26.1	21.4	19.0	16.6	16.6
125°	144.8	106.8	58.2	46.3	36.8	28.5	23.7	20.2	16.6	15.4	15.4
127.5°	136.5	105.6	54.6	42.7	33.2	26.1	21.4	17.8	14.2	13.1	13.1
130°	135.3	105.6	51.0	38.0	29.7	22.5	19.0	15.4	13.1	11.9	11.9
132.5°	121.1	96.1	48.7	35.6	27.3	21.4	17.8	14.2	11.9	10.7	10.7
135°	109.2	89.0	47.5	33.2	24.9	19.0	15.4	13.1	9.5	9.5	9.5
137.5°	100.9	81.9	47.5	30.9	22.5	16.6	14.2	11.9	8.3	8.3	8.3
140°	94.9	76.0	46.3	29.7	20.2	15.4	13.1	9.5	7.1	7.1	7.1
142.5°	89.0	71.2	42.7	28.5	19.0	13.1	11.9	9.5	7.1	5.9	5.9
145°	81.9	65.3	38.0	26.1	17.8	11.9	10.7	8.3	5.9	4.7	4.7
147.5°	74.8	58.2	33.2	22.5	16.6	10.7	9.5	7.1	4.7	4.7	4.7
150°	64.1	49.8	29.7	20.2	14.2	9.5	8.3	5.9	4.7	3.6	3.6
152.5°	52.2	42.7	26.1	17.8	13.1	8.3	7.1	4.7	3.6	2.4	2.4
155°	46.3	38.0	23.7	15.4	10.7	7.1	5.9	3.6	3.6	2.4	2.4
157.5°	40.4	33.2	21.4	13.1	8.3	4.7	4.7	3.6	2.4	2.4	1.2
160°	33.2	28.5	17.8	10.7	7.1	3.6	3.6	2.4	2.4	1.2	1.2
162.5°	26.1	21.4	13.1	8.3	4.7	2.4	2.4	2.4	2.4	1.2	0.0
165°	17.8	15.4	9.5	5.9	3.6	1.2	1.2	2.4	1.2	1.2	0.0
167.5°	11.9	9.5	5.9	3.6	2.4	0.0	1.2	1.2	1.2	1.2	0.0
170°	4.7	4.7	3.6	2.4	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)