

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: P588578

Luminaire Tested: **ARC-CA6-110-727-U-33-X-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588578
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-CA6-110-727-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: 6845 lumens
Efficiency: N/A
Efficacy: 121.2 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

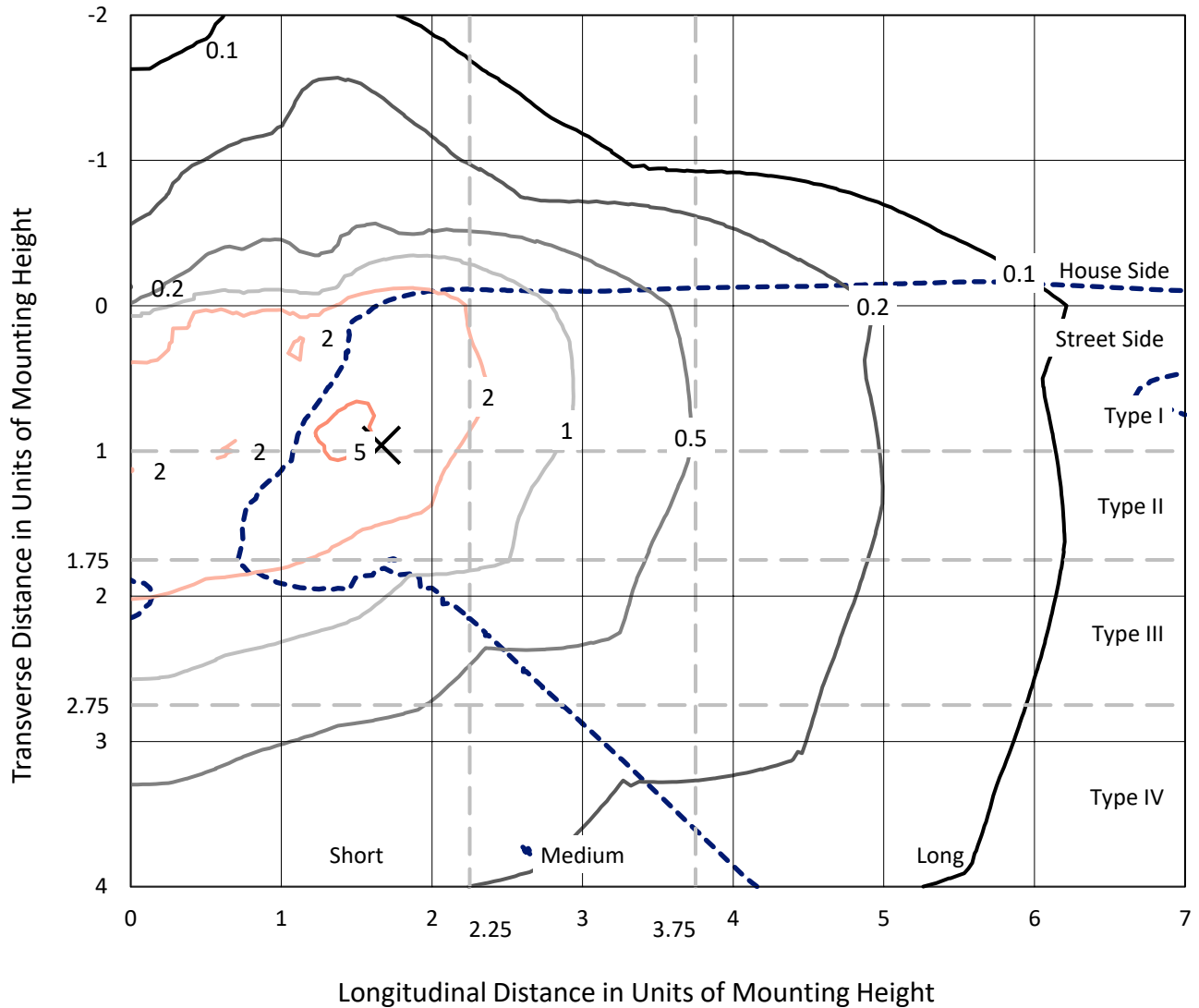
Input Watts (W): 56.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P588578
 CATALOG NUMBER: ARC-CA6-110-727-U-33-X-5-X-GHSS

Iso-Footcandle Lines of Horizontal Illumination

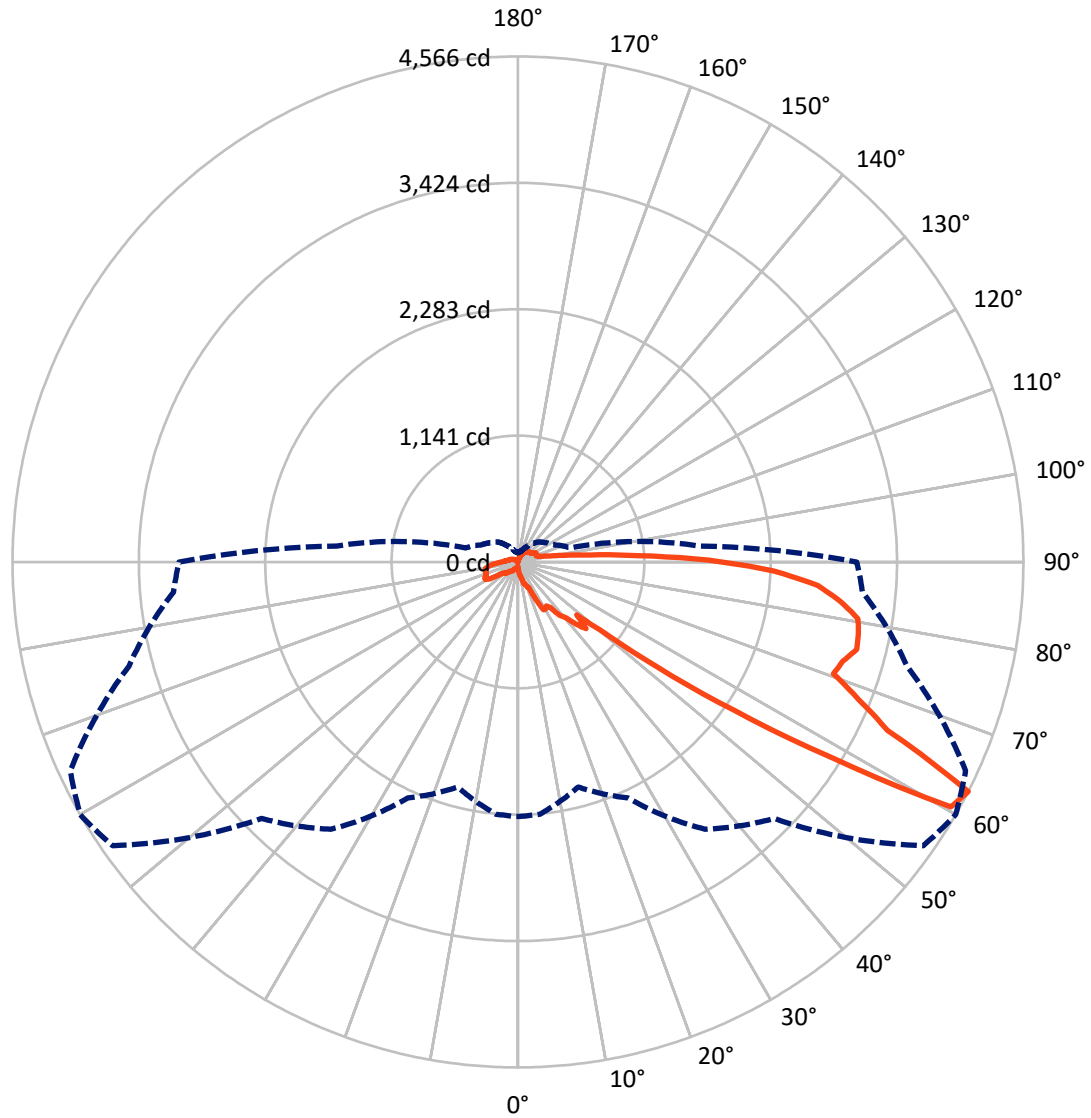
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P588578
CATALOG NUMBER: ARC-CA6-110-727-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: P588578
 CATALOG NUMBER: ARC-CA6-110-727-U-33-X-5-X-GHSS

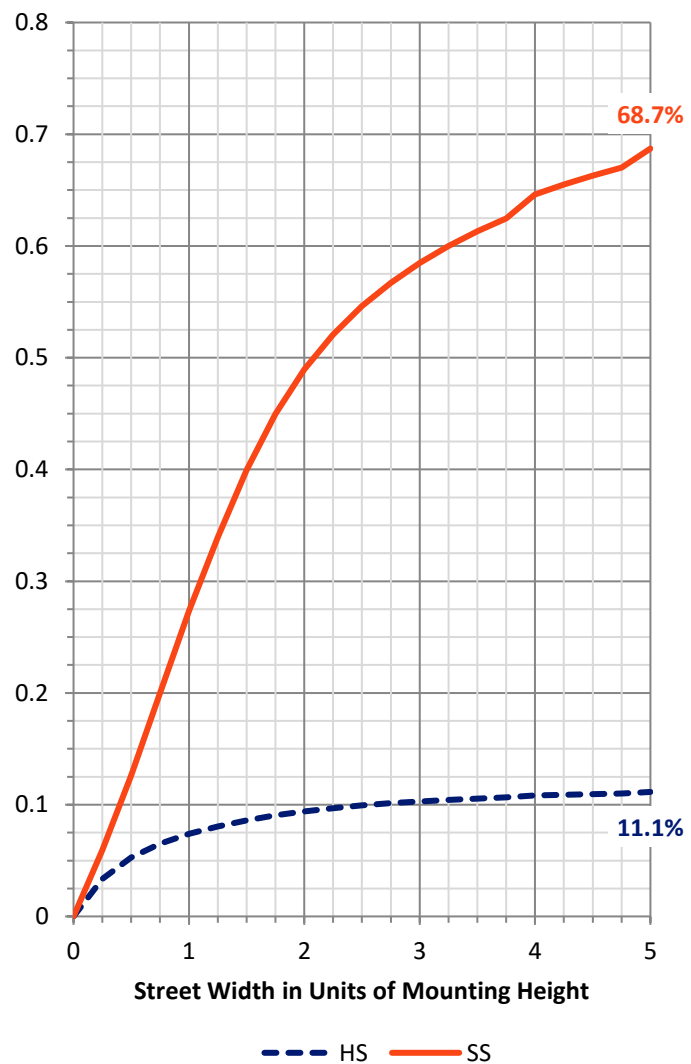
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	803.0	160.1	963.1
	% Fixture	11.7	2.3	14.1
Street Side	Lumens	5228.6	653.3	5881.9
	% Fixture	76.4	9.5	85.9
Total	Lumens	6031.6	813.4	6845.0
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.1	0.1
10°-20°	32.9	0.5
20°-30°	97.9	1.4
30°-40°	196.7	2.9
40°-50°	346.1	5.1
50°-60°	955.6	14.0
60°-70°	1652.3	24.1
70°-80°	1533.7	22.4
80°-90°	1209.3	17.7
90°-100°	383.7	5.6
100°-110°	136.9	2.0
110°-120°	112.5	1.6
120°-130°	74.0	1.1
130°-140°	52.7	0.8
140°-150°	34.1	0.5
150°-160°	15.6	0.2
160°-170°	3.9	0.1
170°-180°	0.1	0.0
0°-90°	6031.6	88.1
0°-180°	6845.0	100.0

Coefficient of Utilization



REPORT NUMBER: P588578

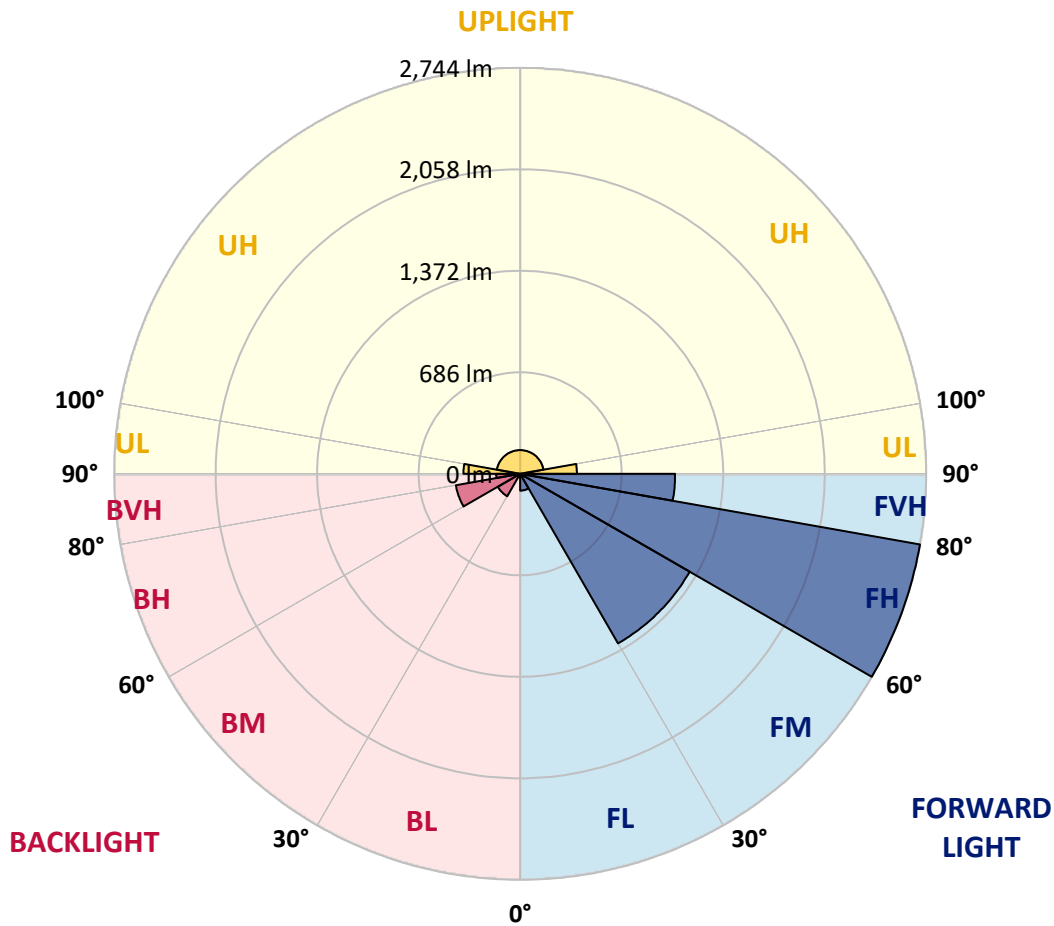
CATALOG NUMBER: ARC-CA6-110-727-U-33-X-5-X-GHSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	113.6	1.7			
FM (30°-60°)	1323.6	19.3			
FH (60°-80°)	2744.2	40.1			G2/5000
FVH (80°-90°)	1047.2	15.3			G5
BL (0°-30°)	24.3	0.4	B0/110		
BM (30°-60°)	174.8	2.6	B0/220		
BH (60°-80°)	441.7	6.5	B1/500		G1/500
BVH (80°-90°)	162.2	2.4			G2/225
UL (90°-100°)	383.7	5.6		U3/500	
UH (100°-180°)	160.1	2.3		U3/500	

BUG Rating: B1-U3-G5

Type III Short





REPORT NUMBER: P588578

CATALOG NUMBER: ARC-CA6-110-727-U-33-X-5-X-GHSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
2.5°	81.1	79.0	80.1	80.1	81.1	76.9	72.7	69.5	66.4	62.2	56.9
5°	115.9	113.8	110.6	109.6	107.4	103.2	96.9	94.8	88.5	80.1	69.5
7.5°	141.2	140.1	139.1	135.9	133.8	127.5	120.1	116.9	109.6	98.0	85.3
10°	160.1	160.1	161.2	155.9	146.4	141.2	134.8	132.7	127.5	111.7	95.9
12.5°	175.9	173.8	165.4	161.2	157.0	158.0	159.1	158.0	155.9	129.6	107.4
15°	190.7	188.6	182.2	177.0	173.8	184.3	207.5	205.4	204.4	163.3	125.4
17.5°	201.2	201.2	207.5	211.7	217.0	201.2	197.0	203.3	210.7	180.1	142.2
20°	231.8	227.5	222.3	218.1	244.4	232.8	237.0	244.4	249.7	201.2	155.9
22.5°	218.1	219.1	242.3	250.7	238.1	231.8	246.5	249.7	250.7	230.7	162.2
25°	298.1	284.4	276.0	302.3	300.2	346.6	360.3	369.7	369.7	312.9	226.5
27.5°	411.9	411.9	447.7	517.2	505.6	506.7	490.9	489.8	509.9	528.8	344.5
30°	446.6	458.2	558.3	593.1	631.0	583.6	532.0	491.9	500.4	602.6	401.3
32.5°	457.2	467.7	588.9	550.9	564.6	545.7	553.0	471.9	451.9	555.1	390.8
35°	399.2	414.0	513.0	464.6	438.2	495.1	563.6	505.6	496.2	456.1	353.9
37.5°	533.0	540.4	575.2	567.8	576.2	579.4	661.5	608.9	619.4	550.9	447.7
40°	612.0	603.6	739.5	772.2	759.5	747.9	740.5	659.4	672.1	638.4	605.7
42.5°	752.1	742.7	838.5	858.5	861.7	831.1	865.9	763.7	732.1	662.6	754.2
45°	761.6	766.9	857.5	805.9	859.6	915.4	978.6	860.6	803.8	686.8	876.4
47.5°	674.2	697.4	896.5	851.2	798.5	749.0	773.2	713.2	666.8	543.6	842.7
50°	687.9	697.4	824.8	771.1	641.5	794.3	1007.1	963.9	913.3	674.2	812.2
52.5°	973.4	969.1	1025.0	1028.1	1060.8	1192.5	1612.8	1578.0	1586.4	1312.6	1209.3
55°	1334.7	1332.6	1473.7	1699.2	1885.6	1949.9	2498.7	2361.7	2299.6	2034.1	2135.3
57.5°	1725.5	1743.4	1805.5	2121.6	2440.8	2524.0	3383.6	3313.0	3176.0	2653.5	2923.2
60°	2137.4	2126.8	2035.2	2242.7	2753.6	3168.7	4458.0	4491.7	4218.9	3340.4	3190.8
62.5°	2299.6	2285.9	2103.7	2351.2	2946.4	3276.1	4468.6	4565.5	4461.2	3637.4	3123.4
65°	2272.2	2240.6	1998.3	2193.2	2487.1	2787.3	3989.3	3668.0	3838.6	3719.6	2952.7
67.5°	2164.8	2157.4	1932.0	2039.4	2231.1	2270.1	3643.8	3319.3	3380.4	3793.3	3003.3
70°	2029.9	2027.8	1857.2	1938.3	2211.1	2171.1	3373.0	3024.3	2988.5	3395.1	3015.9
72.5°	2034.1	2032.0	1843.5	1870.9	2163.7	2098.4	3344.6	3066.5	3001.2	3199.2	2870.5
75°	2068.9	2071.0	1870.9	1901.4	2230.1	2113.1	3412.0	3160.2	3093.9	3180.2	2754.7
77.5°	2035.2	2052.0	1855.1	1923.5	2272.2	2111.0	3380.4	3142.3	3048.6	3024.3	2533.5
80°	1922.5	1945.7	1768.7	1847.7	2234.3	2139.5	3354.1	3114.9	2995.9	2863.2	2374.4
82.5°	1686.5	1710.7	1574.9	1647.5	2078.4	2022.6	3169.7	2938.0	2831.6	2599.8	2166.9
85°	1449.5	1505.3	1439.0	1449.5	1835.0	1851.9	2921.1	2716.7	2643.0	2440.8	2096.3
87.5°	1196.7	1245.1	1183.0	1108.2	1374.7	1471.6	2415.5	2314.3	2294.3	2154.2	1819.2
90°	885.9	930.2	893.3	795.3	931.2	992.3	1780.3	1724.4	1767.6	1607.5	1250.4
92.5°	642.6	650.0	606.8	525.7	620.5	650.0	1167.2	1081.9	1132.4	984.9	733.2
95°	429.8	447.7	414.0	379.2	449.8	453.0	719.5	656.3	628.9	565.7	438.2
97.5°	315.0	316.0	303.4	271.8	316.0	320.2	478.2	430.8	406.6	380.3	303.4
100°	249.7	249.7	230.7	210.7	220.2	228.6	332.9	300.2	287.6	276.0	228.6
102.5°	218.1	217.0	201.2	181.2	180.1	184.3	251.8	229.6	220.2	212.8	180.1
105°	206.5	205.4	189.6	168.5	163.3	160.1	209.6	194.9	188.6	182.2	162.2
107.5°	204.4	202.3	186.5	167.5	159.1	150.6	188.6	175.9	177.0	170.7	155.9
110°	206.5	206.5	192.8	181.2	167.5	155.9	189.6	175.9	180.1	178.0	162.2



REPORT NUMBER: P588578

CATALOG NUMBER: ARC-CA6-110-727-U-33-X-5-X-GHSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	201.2	206.5	201.2	193.8	179.1	169.6	198.0	182.2	187.5	187.5	167.5
115°	189.6	194.9	194.9	187.5	173.8	170.7	195.9	182.2	184.3	181.2	155.9
117.5°	173.8	177.0	174.9	166.4	154.9	152.7	182.2	175.9	175.9	166.4	145.4
120°	162.2	155.9	147.5	141.2	134.8	140.1	164.3	158.0	152.7	148.5	132.7
122.5°	145.4	138.0	128.5	125.4	121.1	128.5	149.6	144.3	139.1	136.9	125.4
125°	120.1	120.1	115.9	113.8	112.7	123.2	147.5	142.2	134.8	130.6	116.9
127.5°	115.9	115.9	112.7	110.6	111.7	124.3	144.3	139.1	130.6	125.4	112.7
130°	116.9	114.8	110.6	107.4	108.5	123.2	143.3	136.9	128.5	124.3	112.7
132.5°	110.6	108.5	105.3	103.2	102.2	116.9	135.9	132.7	126.4	116.9	104.3
135°	107.4	105.3	103.2	102.2	102.2	113.8	129.6	126.4	120.1	109.6	95.9
137.5°	106.4	104.3	100.1	99.0	98.0	108.5	121.1	119.0	112.7	103.2	91.6
140°	101.1	98.0	94.8	93.8	93.8	102.2	114.8	112.7	106.4	99.0	88.5
142.5°	93.8	91.6	88.5	88.5	89.5	98.0	111.7	110.6	103.2	94.8	85.3
145°	89.5	87.4	85.3	86.4	87.4	94.8	105.3	104.3	99.0	91.6	82.2
147.5°	82.2	81.1	79.0	78.0	80.1	86.4	98.0	98.0	94.8	85.3	75.8
150°	71.6	70.6	68.5	67.4	69.5	75.8	85.3	85.3	82.2	72.7	64.3
152.5°	60.0	59.0	59.0	60.0	62.2	65.3	73.7	74.8	71.6	62.2	54.8
155°	52.7	51.6	51.6	52.7	55.8	59.0	64.3	64.3	61.1	54.8	47.4
157.5°	45.3	44.2	44.2	45.3	48.5	50.6	55.8	54.8	52.7	47.4	41.1
160°	34.8	33.7	33.7	34.8	37.9	40.0	44.2	44.2	43.2	40.0	34.8
162.5°	26.3	25.3	25.3	26.3	28.4	29.5	32.7	33.7	33.7	31.6	27.4
165°	20.0	19.0	19.0	19.0	21.1	22.1	23.2	23.2	23.2	22.1	19.0
167.5°	12.6	11.6	11.6	12.6	13.7	13.7	14.7	14.7	13.7	13.7	11.6
170°	6.3	5.3	5.3	6.3	6.3	6.3	5.3	4.2	4.2	4.2	4.2
172.5°	2.1	1.1	3.2	3.2	2.1	0.0	0.0	1.1	1.1	1.1	0.0
175°	2.1	1.1	3.2	3.2	2.1	0.0	0.0	1.1	0.0	1.1	0.0
177.5°	1.1	1.1	3.2	3.2	2.1	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



REPORT NUMBER: P588578

CATALOG NUMBER: ARC-CA6-110-727-U-33-X-5-X-GHSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
2.5°	54.8	53.7	49.5	43.2	36.9	30.5	29.5	30.5	31.6	32.7	33.7
5°	65.3	61.1	52.7	43.2	34.8	26.3	22.1	20.0	19.0	20.0	21.1
7.5°	79.0	73.7	63.2	51.6	41.1	32.7	27.4	22.1	19.0	19.0	20.0
10°	88.5	82.2	69.5	56.9	46.4	36.9	30.5	25.3	22.1	20.0	20.0
12.5°	99.0	90.6	73.7	60.0	48.5	40.0	33.7	28.4	25.3	23.2	23.2
15°	110.6	101.1	81.1	63.2	51.6	42.1	36.9	31.6	27.4	25.3	25.3
17.5°	129.6	113.8	85.3	66.4	53.7	44.2	37.9	32.7	28.4	26.3	26.3
20°	138.0	120.1	86.4	69.5	56.9	46.4	39.0	32.7	29.5	27.4	27.4
22.5°	138.0	119.0	88.5	71.6	60.0	48.5	40.0	33.7	29.5	27.4	27.4
25°	173.8	130.6	90.6	76.9	63.2	50.6	42.1	34.8	30.5	28.4	28.4
27.5°	243.3	170.7	104.3	82.2	67.4	53.7	44.2	36.9	31.6	29.5	29.5
30°	267.6	190.7	119.0	95.9	73.7	56.9	46.4	39.0	33.7	30.5	30.5
32.5°	272.8	187.5	127.5	105.3	84.3	62.2	48.5	41.1	34.8	31.6	31.6
35°	246.5	173.8	127.5	109.6	90.6	69.5	53.7	43.2	35.8	32.7	31.6
37.5°	287.6	187.5	130.6	110.6	93.8	74.8	60.0	46.4	37.9	33.7	33.7
40°	371.9	222.3	146.4	116.9	94.8	78.0	66.4	51.6	41.1	35.8	35.8
42.5°	435.1	250.7	163.3	132.7	103.2	82.2	68.5	55.8	45.3	39.0	37.9
45°	488.8	278.1	178.0	147.5	118.0	91.6	72.7	60.0	49.5	43.2	42.1
47.5°	498.3	291.8	189.6	162.2	129.6	101.1	79.0	64.3	54.8	47.4	46.4
50°	481.4	292.8	193.8	171.7	142.2	111.7	86.4	69.5	59.0	51.6	51.6
52.5°	687.9	365.5	212.8	177.0	146.4	120.1	95.9	75.8	63.2	56.9	56.9
55°	1240.9	591.0	274.9	209.6	157.0	126.4	104.3	85.3	69.5	62.2	62.2
57.5°	2005.7	922.8	363.4	280.2	202.3	146.4	113.8	94.8	78.0	67.4	67.4
60°	2657.8	1302.0	442.4	341.3	265.5	201.2	138.0	107.4	87.4	74.8	73.7
62.5°	3060.2	1643.3	488.8	364.5	303.4	254.9	185.4	134.8	99.0	85.3	83.2
65°	2970.6	1814.0	508.8	362.4	301.3	271.8	221.2	167.5	119.0	98.0	94.8
67.5°	2728.3	1815.0	505.6	346.6	285.5	258.1	220.2	181.2	138.0	110.6	106.4
70°	2607.2	1783.4	489.8	335.0	272.8	241.2	204.4	166.4	135.9	118.0	115.9
72.5°	2549.3	1762.4	480.4	332.9	270.7	234.9	193.8	148.5	122.2	112.7	114.8
75°	2563.0	1775.0	484.6	336.0	274.9	238.1	189.6	138.0	107.4	96.9	99.0
77.5°	2532.4	1749.7	490.9	335.0	272.8	232.8	177.0	126.4	98.0	87.4	86.4
80°	2557.7	1694.9	476.1	324.5	257.0	211.7	157.0	112.7	89.5	82.2	81.1
82.5°	2363.9	1475.8	423.5	296.0	232.8	182.2	131.7	99.0	84.3	75.8	75.8
85°	2166.9	1196.7	363.4	260.2	191.7	143.3	105.3	86.4	73.7	67.4	67.4
87.5°	1644.4	857.5	281.3	213.8	160.1	123.2	95.9	83.2	72.7	68.5	67.4
90°	1016.5	528.8	209.6	170.7	135.9	109.6	90.6	80.1	71.6	68.5	68.5
92.5°	568.8	338.1	162.2	140.1	116.9	98.0	83.2	72.7	65.3	62.2	62.2
95°	385.5	252.8	139.1	125.4	104.3	86.4	72.7	63.2	56.9	52.7	52.7
97.5°	279.2	199.1	123.2	112.7	93.8	75.8	64.3	54.8	49.5	47.4	47.4
100°	213.8	161.2	111.7	101.1	83.2	66.4	55.8	47.4	42.1	40.0	40.0
102.5°	171.7	135.9	101.1	91.6	73.7	59.0	47.4	39.0	34.8	33.7	32.7
105°	154.9	126.4	94.8	85.3	67.4	53.7	42.1	34.8	30.5	28.4	28.4
107.5°	150.6	126.4	93.8	83.2	64.3	50.6	37.9	31.6	27.4	25.3	25.3
110°	160.1	133.8	94.8	81.1	60.0	46.4	34.8	28.4	24.2	23.2	23.2



REPORT NUMBER: P588578

CATALOG NUMBER: ARC-CA6-110-727-U-33-X-5-X-GHSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	165.4	134.8	90.6	75.8	55.8	42.1	32.7	26.3	23.2	21.1	21.1
115°	151.7	121.1	83.2	67.4	49.5	37.9	30.5	25.3	21.1	19.0	19.0
117.5°	146.4	113.8	81.1	59.0	45.3	34.8	28.4	23.2	20.0	17.9	17.9
120°	146.4	110.6	71.6	51.6	41.1	31.6	26.3	21.1	17.9	16.9	16.9
122.5°	141.2	102.2	63.2	45.3	35.8	27.4	23.2	19.0	16.9	14.7	14.7
125°	128.5	94.8	51.6	41.1	32.7	25.3	21.1	17.9	14.7	13.7	13.7
127.5°	121.1	93.8	48.5	37.9	29.5	23.2	19.0	15.8	12.6	11.6	11.6
130°	120.1	93.8	45.3	33.7	26.3	20.0	16.9	13.7	11.6	10.5	10.5
132.5°	107.4	85.3	43.2	31.6	24.2	19.0	15.8	12.6	10.5	9.5	9.5
135°	96.9	79.0	42.1	29.5	22.1	16.9	13.7	11.6	8.4	8.4	8.4
137.5°	89.5	72.7	42.1	27.4	20.0	14.7	12.6	10.5	7.4	7.4	7.4
140°	84.3	67.4	41.1	26.3	17.9	13.7	11.6	8.4	6.3	6.3	6.3
142.5°	79.0	63.2	37.9	25.3	16.9	11.6	10.5	8.4	6.3	5.3	5.3
145°	72.7	57.9	33.7	23.2	15.8	10.5	9.5	7.4	5.3	4.2	4.2
147.5°	66.4	51.6	29.5	20.0	14.7	9.5	8.4	6.3	4.2	4.2	4.2
150°	56.9	44.2	26.3	17.9	12.6	8.4	7.4	5.3	4.2	3.2	3.2
152.5°	46.4	37.9	23.2	15.8	11.6	7.4	6.3	4.2	3.2	2.1	2.1
155°	41.1	33.7	21.1	13.7	9.5	6.3	5.3	3.2	3.2	2.1	2.1
157.5°	35.8	29.5	19.0	11.6	7.4	4.2	4.2	3.2	2.1	2.1	1.1
160°	29.5	25.3	15.8	9.5	6.3	3.2	3.2	2.1	2.1	1.1	1.1
162.5°	23.2	19.0	11.6	7.4	4.2	2.1	2.1	2.1	2.1	1.1	0.0
165°	15.8	13.7	8.4	5.3	3.2	1.1	1.1	2.1	1.1	1.1	0.0
167.5°	10.5	8.4	5.3	3.2	2.1	0.0	1.1	1.1	1.1	1.1	0.0
170°	4.2	4.2	3.2	2.1	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)