

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: P588566

Luminaire Tested: **ARC-CA6-100-727-U-33-X-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588566
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-CA6-100-727-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: 6432 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

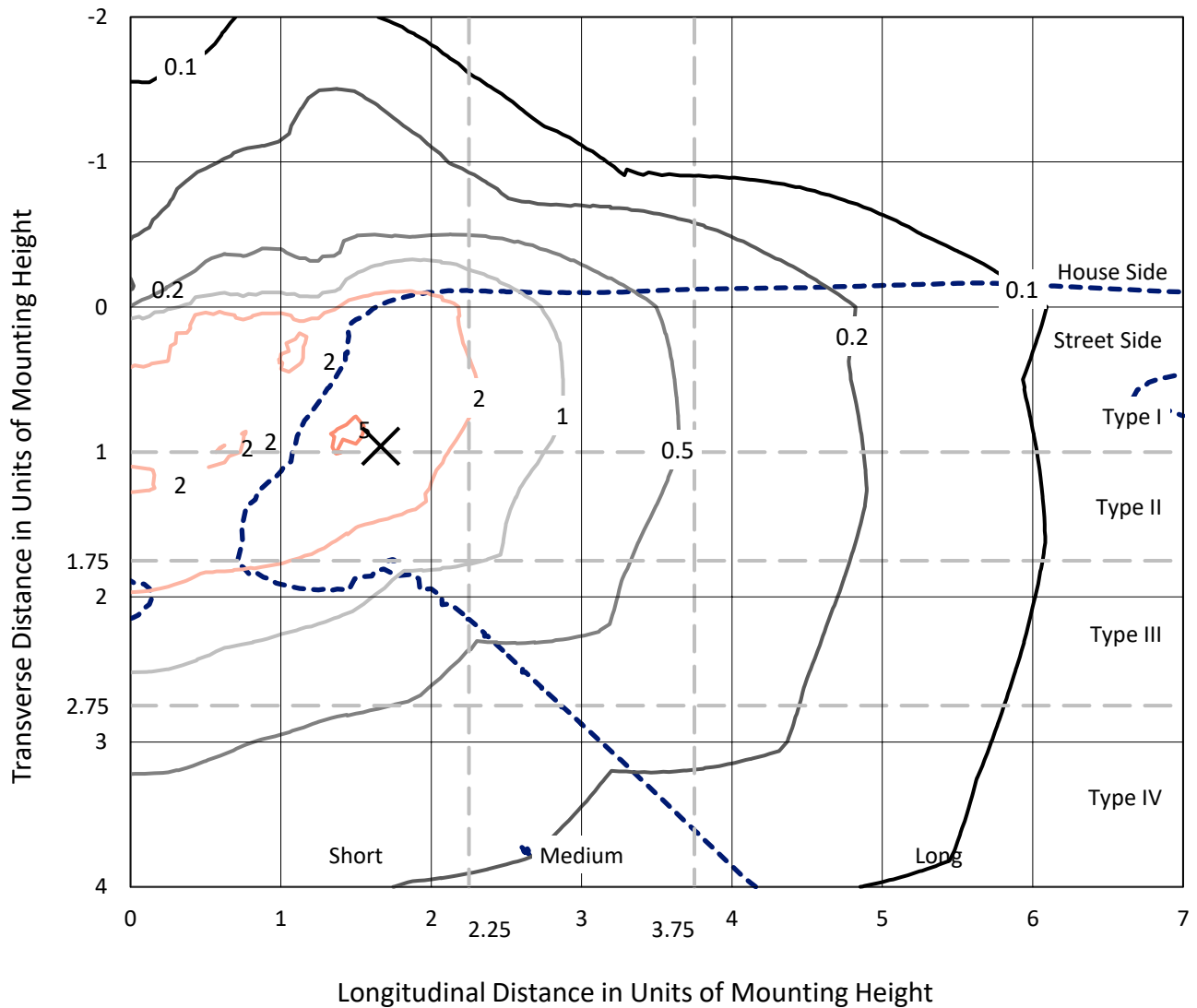
Input Watts (W): 52.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

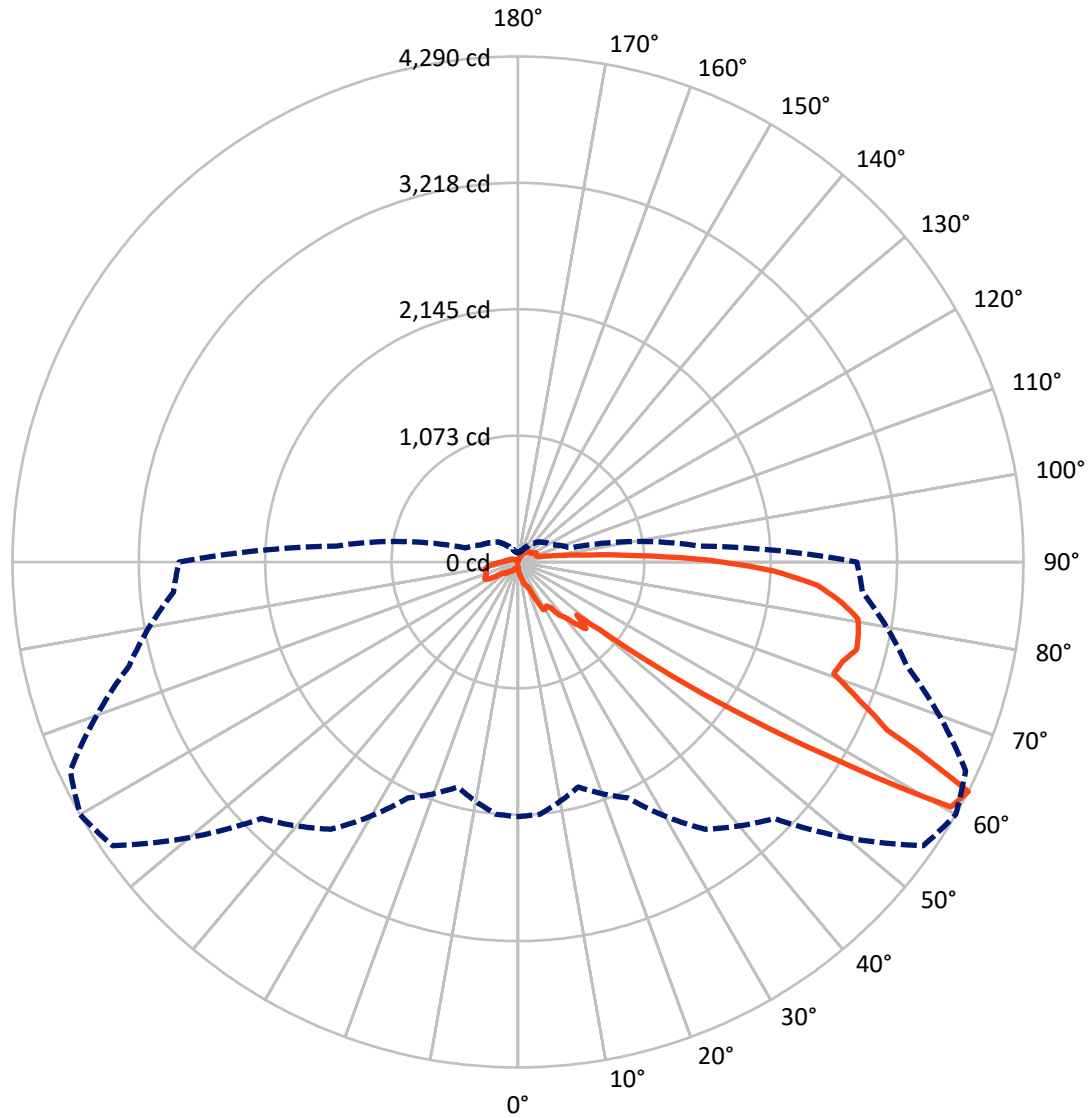
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 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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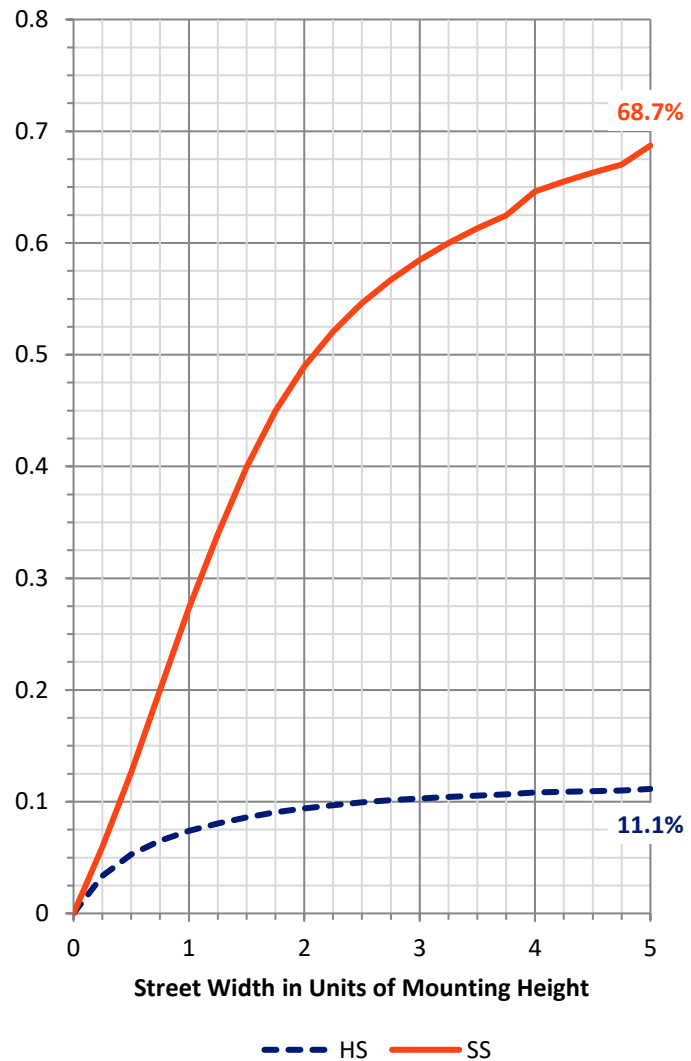
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	754.6	150.4	905.0
	% Fixture	11.7	2.3	14.1
Street Side	Lumens	4913.1	613.9	5527.0
	% Fixture	76.4	9.5	85.9
Total	Lumens	5667.7	764.4	6432.0
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	0.1
10°-20°	30.9	0.5
20°-30°	92.0	1.4
30°-40°	184.8	2.9
40°-50°	325.2	5.1
50°-60°	898.0	14.0
60°-70°	1552.6	24.1
70°-80°	1441.1	22.4
80°-90°	1136.4	17.7
90°-100°	360.6	5.6
100°-110°	128.6	2.0
110°-120°	105.7	1.6
120°-130°	69.5	1.1
130°-140°	49.5	0.8
140°-150°	32.0	0.5
150°-160°	14.7	0.2
160°-170°	3.6	0.1
170°-180°	0.1	0.0
0°-90°	5667.7	88.1
0°-180°	6432.0	100.0



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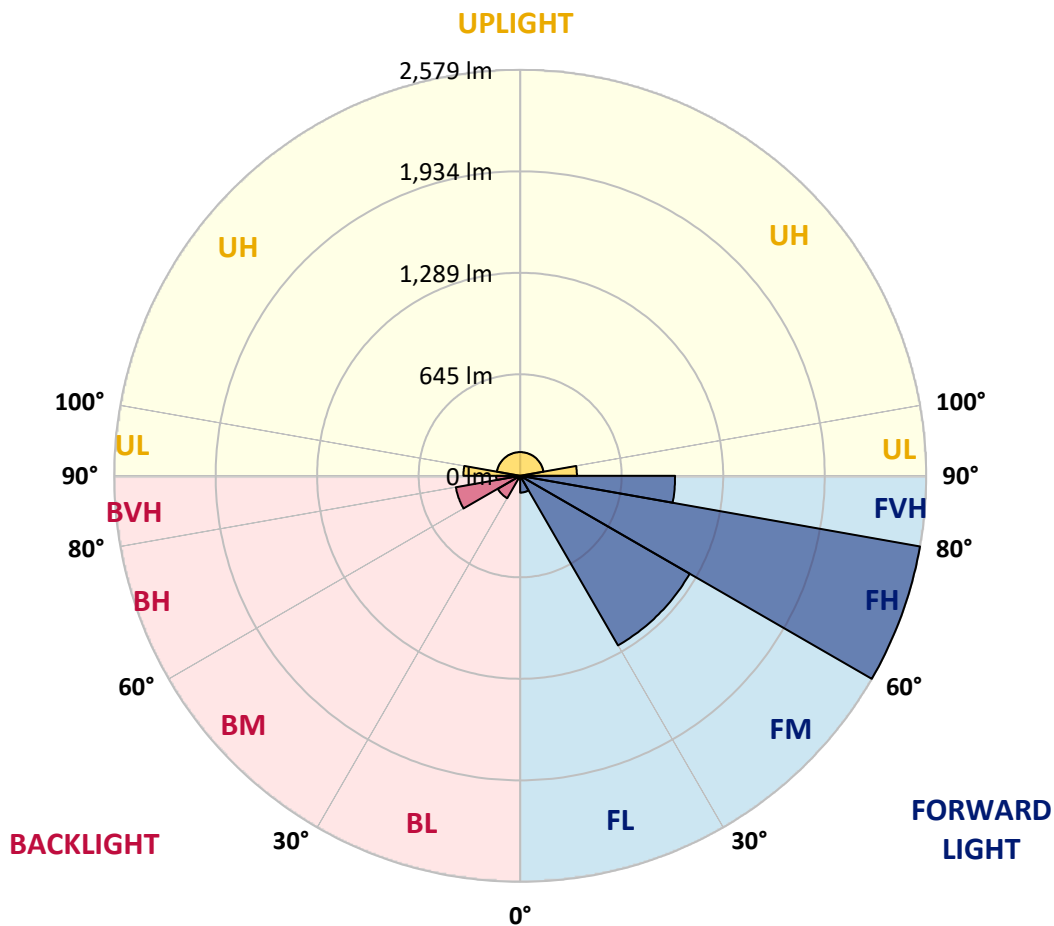
CATALOG NUMBER: ARC-CA6-100-727-U-33-X-5-X-GHSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	106.8	1.7			
FM (30°-60°)	1243.7	19.3			
FH (60°-80°)	2578.7	40.1			G2/5000
FVH (80°-90°)	984.0	15.3			G5
BL (0°-30°)	22.8	0.4	B0/110		
BM (30°-60°)	164.3	2.6	B0/220		
BH (60°-80°)	415.0	6.5	B1/500		G1/500
BVH (80°-90°)	152.4	2.4			G2/225
UL (90°-100°)	360.6	5.6		U3/500	
UH (100°-180°)	150.4	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°	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
2.5°	76.2	74.2	75.2	75.2	76.2	72.3	68.3	65.3	62.4	58.4	53.5
5°	108.9	106.9	103.9	102.9	101.0	97.0	91.1	89.1	83.1	75.2	65.3
7.5°	132.6	131.7	130.7	127.7	125.7	119.8	112.8	109.9	102.9	92.1	80.2
10°	150.5	150.5	151.4	146.5	137.6	132.6	126.7	124.7	119.8	104.9	90.1
12.5°	165.3	163.3	155.4	151.4	147.5	148.5	149.5	148.5	146.5	121.8	101.0
15°	179.2	177.2	171.2	166.3	163.3	173.2	195.0	193.0	192.0	153.4	117.8
17.5°	189.1	189.1	195.0	199.0	203.9	189.1	185.1	191.0	198.0	169.3	133.6
20°	217.8	213.8	208.9	204.9	229.6	218.8	222.7	229.6	234.6	189.1	146.5
22.5°	204.9	205.9	227.7	235.6	223.7	217.8	231.6	234.6	235.6	216.8	152.4
25°	280.1	267.3	259.3	284.1	282.1	325.7	338.5	347.4	347.4	294.0	212.8
27.5°	387.0	387.0	420.7	486.0	475.1	476.1	461.3	460.3	479.1	496.9	323.7
30°	419.7	430.6	524.6	557.3	592.9	548.4	499.9	462.3	470.2	566.2	377.1
32.5°	429.6	439.5	553.3	517.7	530.6	512.7	519.7	443.5	424.6	521.7	367.2
35°	375.2	389.0	482.1	436.5	411.8	465.2	529.6	475.1	466.2	428.6	332.6
37.5°	500.9	507.8	540.5	533.5	541.4	544.4	621.6	572.1	582.0	517.7	420.7
40°	575.1	567.2	694.9	725.6	713.7	702.8	695.9	619.6	631.5	599.9	569.2
42.5°	706.8	697.8	787.9	806.7	809.7	781.0	813.7	717.6	687.9	622.6	708.7
45°	715.7	720.6	805.7	757.2	807.7	860.2	919.6	808.7	755.3	645.4	823.6
47.5°	633.5	655.3	842.4	799.8	750.3	703.8	726.6	670.1	626.6	510.8	791.9
50°	646.4	655.3	775.1	724.6	602.8	746.3	946.3	905.7	858.2	633.5	763.2
52.5°	914.6	910.7	963.1	966.1	996.8	1120.5	1515.5	1482.8	1490.7	1233.4	1136.4
55°	1254.1	1252.2	1384.8	1596.6	1771.8	1832.2	2347.9	2219.3	2160.8	1911.4	2006.4
57.5°	1621.4	1638.2	1696.6	1993.6	2293.5	2371.7	3179.4	3113.1	2984.4	2493.4	2746.8
60°	2008.4	1998.5	1912.4	2107.4	2587.5	2977.5	4189.1	4220.7	3964.4	3138.8	2998.3
62.5°	2160.8	2148.0	1976.7	2209.4	2768.6	3078.4	4199.0	4290.0	4192.0	3418.0	2934.9
65°	2135.1	2105.4	1877.8	2060.9	2337.0	2619.2	3748.6	3446.7	3607.0	3495.2	2774.6
67.5°	2034.1	2027.2	1815.4	1916.4	2096.5	2133.1	3423.9	3119.0	3176.4	3564.5	2822.1
70°	1907.4	1905.5	1745.1	1821.3	2077.7	2040.1	3169.5	2841.9	2808.2	3190.3	2833.9
72.5°	1911.4	1909.4	1732.2	1758.0	2033.2	1971.8	3142.8	2881.5	2820.1	3006.2	2697.3
75°	1944.1	1946.1	1758.0	1786.7	2095.5	1985.6	3206.1	2969.6	2907.2	2988.4	2588.5
77.5°	1912.4	1928.2	1743.1	1807.5	2135.1	1983.7	3176.4	2952.7	2864.6	2841.9	2380.6
80°	1806.5	1828.3	1662.0	1736.2	2099.5	2010.4	3151.7	2927.0	2815.1	2690.4	2231.1
82.5°	1584.8	1607.5	1479.8	1548.1	1953.0	1900.5	2978.5	2760.7	2660.7	2443.0	2036.1
85°	1362.0	1414.5	1352.1	1362.0	1724.3	1740.2	2744.9	2552.8	2483.5	2293.5	1969.8
87.5°	1124.5	1170.0	1111.6	1041.3	1291.8	1382.8	2269.7	2174.7	2155.9	2024.2	1709.5
90°	832.5	874.0	839.4	747.3	875.0	932.4	1672.9	1620.4	1661.0	1510.5	1175.0
92.5°	603.8	610.7	570.2	493.9	583.0	610.7	1096.8	1016.6	1064.1	925.5	688.9
95°	403.9	420.7	389.0	356.3	422.7	425.6	676.1	616.7	590.9	531.6	411.8
97.5°	296.0	297.0	285.1	255.4	297.0	300.9	449.4	404.8	382.1	357.3	285.1
100°	234.6	234.6	216.8	198.0	206.9	214.8	312.8	282.1	270.2	259.3	214.8
102.5°	204.9	203.9	189.1	170.3	169.3	173.2	236.6	215.8	206.9	200.0	169.3
105°	194.0	193.0	178.2	158.4	153.4	150.5	197.0	183.1	177.2	171.2	152.4
107.5°	192.0	190.1	175.2	157.4	149.5	141.5	177.2	165.3	166.3	160.4	146.5
110°	194.0	194.0	181.1	170.3	157.4	146.5	178.2	165.3	169.3	167.3	152.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	189.1	194.0	189.1	182.1	168.3	159.4	186.1	171.2	176.2	176.2	157.4
115°	178.2	183.1	183.1	176.2	163.3	160.4	184.1	171.2	173.2	170.3	146.5
117.5°	163.3	166.3	164.3	156.4	145.5	143.5	171.2	165.3	165.3	156.4	136.6
120°	152.4	146.5	138.6	132.6	126.7	131.7	154.4	148.5	143.5	139.6	124.7
122.5°	136.6	129.7	120.8	117.8	113.8	120.8	140.6	135.6	130.7	128.7	117.8
125°	112.8	112.8	108.9	106.9	105.9	115.8	138.6	133.6	126.7	122.7	109.9
127.5°	108.9	108.9	105.9	103.9	104.9	116.8	135.6	130.7	122.7	117.8	105.9
130°	109.9	107.9	103.9	101.0	102.0	115.8	134.6	128.7	120.8	116.8	105.9
132.5°	103.9	102.0	99.0	97.0	96.0	109.9	127.7	124.7	118.8	109.9	98.0
135°	101.0	99.0	97.0	96.0	96.0	106.9	121.8	118.8	112.8	102.9	90.1
137.5°	100.0	98.0	94.0	93.0	92.1	102.0	113.8	111.9	105.9	97.0	86.1
140°	95.0	92.1	89.1	88.1	88.1	96.0	107.9	105.9	100.0	93.0	83.1
142.5°	88.1	86.1	83.1	83.1	84.1	92.1	104.9	103.9	97.0	89.1	80.2
145°	84.1	82.2	80.2	81.2	82.2	89.1	99.0	98.0	93.0	86.1	77.2
147.5°	77.2	76.2	74.2	73.2	75.2	81.2	92.1	92.1	89.1	80.2	71.3
150°	67.3	66.3	64.3	63.4	65.3	71.3	80.2	80.2	77.2	68.3	60.4
152.5°	56.4	55.4	55.4	56.4	58.4	61.4	69.3	70.3	67.3	58.4	51.5
155°	49.5	48.5	48.5	49.5	52.5	55.4	60.4	60.4	57.4	51.5	44.5
157.5°	42.6	41.6	41.6	42.6	45.5	47.5	52.5	51.5	49.5	44.5	38.6
160°	32.7	31.7	31.7	32.7	35.6	37.6	41.6	41.6	40.6	37.6	32.7
162.5°	24.7	23.8	23.8	24.7	26.7	27.7	30.7	31.7	31.7	29.7	25.7
165°	18.8	17.8	17.8	17.8	19.8	20.8	21.8	21.8	21.8	20.8	17.8
167.5°	11.9	10.9	10.9	11.9	12.9	12.9	13.9	13.9	12.9	12.9	10.9
170°	5.9	4.9	4.9	5.9	5.9	5.9	4.9	4.0	4.0	4.0	4.0
172.5°	2.0	1.0	3.0	3.0	2.0	0.0	0.0	1.0	1.0	1.0	0.0
175°	2.0	1.0	3.0	3.0	2.0	0.0	0.0	1.0	0.0	1.0	0.0
177.5°	1.0	1.0	3.0	3.0	2.0	0.0	0.0	0.0	0.0	1.0	0.0
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
2.5°	51.5	50.5	46.5	40.6	34.6	28.7	27.7	28.7	29.7	30.7	31.7
5°	61.4	57.4	49.5	40.6	32.7	24.7	20.8	18.8	17.8	18.8	19.8
7.5°	74.2	69.3	59.4	48.5	38.6	30.7	25.7	20.8	17.8	17.8	18.8
10°	83.1	77.2	65.3	53.5	43.6	34.6	28.7	23.8	20.8	18.8	18.8
12.5°	93.0	85.1	69.3	56.4	45.5	37.6	31.7	26.7	23.8	21.8	21.8
15°	103.9	95.0	76.2	59.4	48.5	39.6	34.6	29.7	25.7	23.8	23.8
17.5°	121.8	106.9	80.2	62.4	50.5	41.6	35.6	30.7	26.7	24.7	24.7
20°	129.7	112.8	81.2	65.3	53.5	43.6	36.6	30.7	27.7	25.7	25.7
22.5°	129.7	111.9	83.1	67.3	56.4	45.5	37.6	31.7	27.7	25.7	25.7
25°	163.3	122.7	85.1	72.3	59.4	47.5	39.6	32.7	28.7	26.7	26.7
27.5°	228.7	160.4	98.0	77.2	63.4	50.5	41.6	34.6	29.7	27.7	27.7
30°	251.4	179.2	111.9	90.1	69.3	53.5	43.6	36.6	31.7	28.7	28.7
32.5°	256.4	176.2	119.8	99.0	79.2	58.4	45.5	38.6	32.7	29.7	29.7
35°	231.6	163.3	119.8	102.9	85.1	65.3	50.5	40.6	33.7	30.7	29.7
37.5°	270.2	176.2	122.7	103.9	88.1	70.3	56.4	43.6	35.6	31.7	31.7
40°	349.4	208.9	137.6	109.9	89.1	73.2	62.4	48.5	38.6	33.7	33.7
42.5°	408.8	235.6	153.4	124.7	97.0	77.2	64.3	52.5	42.6	36.6	35.6
45°	459.3	261.3	167.3	138.6	110.9	86.1	68.3	56.4	46.5	40.6	39.6
47.5°	468.2	274.2	178.2	152.4	121.8	95.0	74.2	60.4	51.5	44.5	43.6
50°	452.4	275.2	182.1	161.3	133.6	104.9	81.2	65.3	55.4	48.5	48.5
52.5°	646.4	343.5	200.0	166.3	137.6	112.8	90.1	71.3	59.4	53.5	53.5
55°	1166.0	555.3	258.4	197.0	147.5	118.8	98.0	80.2	65.3	58.4	58.4
57.5°	1884.7	867.1	341.5	263.3	190.1	137.6	106.9	89.1	73.2	63.4	63.4
60°	2497.4	1223.5	415.7	320.7	249.4	189.1	129.7	101.0	82.2	70.3	69.3
62.5°	2875.5	1544.2	459.3	342.5	285.1	239.5	174.2	126.7	93.0	80.2	78.2
65°	2791.4	1704.5	478.1	340.5	283.1	255.4	207.9	157.4	111.9	92.1	89.1
67.5°	2563.7	1705.5	475.1	325.7	268.3	242.5	206.9	170.3	129.7	103.9	100.0
70°	2449.9	1675.8	460.3	314.8	256.4	226.7	192.0	156.4	127.7	110.9	108.9
72.5°	2395.4	1656.0	451.4	312.8	254.4	220.7	182.1	139.6	114.8	105.9	107.9
75°	2408.3	1667.9	455.3	315.8	258.4	223.7	178.2	129.7	101.0	91.1	93.0
77.5°	2379.6	1644.1	461.3	314.8	256.4	218.8	166.3	118.8	92.1	82.2	81.2
80°	2403.4	1592.7	447.4	304.9	241.5	199.0	147.5	105.9	84.1	77.2	76.2
82.5°	2221.2	1386.8	397.9	278.1	218.8	171.2	123.7	93.0	79.2	71.3	71.3
85°	2036.1	1124.5	341.5	244.5	180.2	134.6	99.0	81.2	69.3	63.4	63.4
87.5°	1545.2	805.7	264.3	200.9	150.5	115.8	90.1	78.2	68.3	64.3	63.4
90°	955.2	496.9	197.0	160.4	127.7	102.9	85.1	75.2	67.3	64.3	64.3
92.5°	534.5	317.7	152.4	131.7	109.9	92.1	78.2	68.3	61.4	58.4	58.4
95°	362.3	237.6	130.7	117.8	98.0	81.2	68.3	59.4	53.5	49.5	49.5
97.5°	262.3	187.1	115.8	105.9	88.1	71.3	60.4	51.5	46.5	44.5	44.5
100°	200.9	151.4	104.9	95.0	78.2	62.4	52.5	44.5	39.6	37.6	37.6
102.5°	161.3	127.7	95.0	86.1	69.3	55.4	44.5	36.6	32.7	31.7	30.7
105°	145.5	118.8	89.1	80.2	63.4	50.5	39.6	32.7	28.7	26.7	26.7
107.5°	141.5	118.8	88.1	78.2	60.4	47.5	35.6	29.7	25.7	23.8	23.8
110°	150.5	125.7	89.1	76.2	56.4	43.6	32.7	26.7	22.8	21.8	21.8



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CATALOG NUMBER: ARC-CA6-100-727-U-33-X-5-X-GHSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	155.4	126.7	85.1	71.3	52.5	39.6	30.7	24.7	21.8	19.8	19.8
115°	142.5	113.8	78.2	63.4	46.5	35.6	28.7	23.8	19.8	17.8	17.8
117.5°	137.6	106.9	76.2	55.4	42.6	32.7	26.7	21.8	18.8	16.8	16.8
120°	137.6	103.9	67.3	48.5	38.6	29.7	24.7	19.8	16.8	15.8	15.8
122.5°	132.6	96.0	59.4	42.6	33.7	25.7	21.8	17.8	15.8	13.9	13.9
125°	120.8	89.1	48.5	38.6	30.7	23.8	19.8	16.8	13.9	12.9	12.9
127.5°	113.8	88.1	45.5	35.6	27.7	21.8	17.8	14.8	11.9	10.9	10.9
130°	112.8	88.1	42.6	31.7	24.7	18.8	15.8	12.9	10.9	9.9	9.9
132.5°	101.0	80.2	40.6	29.7	22.8	17.8	14.8	11.9	9.9	8.9	8.9
135°	91.1	74.2	39.6	27.7	20.8	15.8	12.9	10.9	7.9	7.9	7.9
137.5°	84.1	68.3	39.6	25.7	18.8	13.9	11.9	9.9	6.9	6.9	6.9
140°	79.2	63.4	38.6	24.7	16.8	12.9	10.9	7.9	5.9	5.9	5.9
142.5°	74.2	59.4	35.6	23.8	15.8	10.9	9.9	7.9	5.9	4.9	4.9
145°	68.3	54.4	31.7	21.8	14.8	9.9	8.9	6.9	4.9	4.0	4.0
147.5°	62.4	48.5	27.7	18.8	13.9	8.9	7.9	5.9	4.0	4.0	4.0
150°	53.5	41.6	24.7	16.8	11.9	7.9	6.9	4.9	4.0	3.0	3.0
152.5°	43.6	35.6	21.8	14.8	10.9	6.9	5.9	4.0	3.0	2.0	2.0
155°	38.6	31.7	19.8	12.9	8.9	5.9	4.9	3.0	3.0	2.0	2.0
157.5°	33.7	27.7	17.8	10.9	6.9	4.0	4.0	3.0	2.0	2.0	1.0
160°	27.7	23.8	14.8	8.9	5.9	3.0	3.0	2.0	2.0	1.0	1.0
162.5°	21.8	17.8	10.9	6.9	4.0	2.0	2.0	2.0	2.0	1.0	0.0
165°	14.8	12.9	7.9	4.9	3.0	1.0	1.0	2.0	1.0	1.0	0.0
167.5°	9.9	7.9	4.9	3.0	2.0	0.0	1.0	1.0	1.0	1.0	0.0
170°	4.0	4.0	3.0	2.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0
172.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0
175°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0
177.5°	1.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0	0.0
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

(END OF REPORT)