

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: P588580

Luminaire Tested: **ARC-CA6-110-730-U-33-X-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588580
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-CA6-110-730-U-33-X-5-X-GHSS
Description: GENERATIONS SERIES AVENUE WITH NO CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD
Light Source: (3) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7153 lumens
Efficiency: N/A
Efficacy: 126.6 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

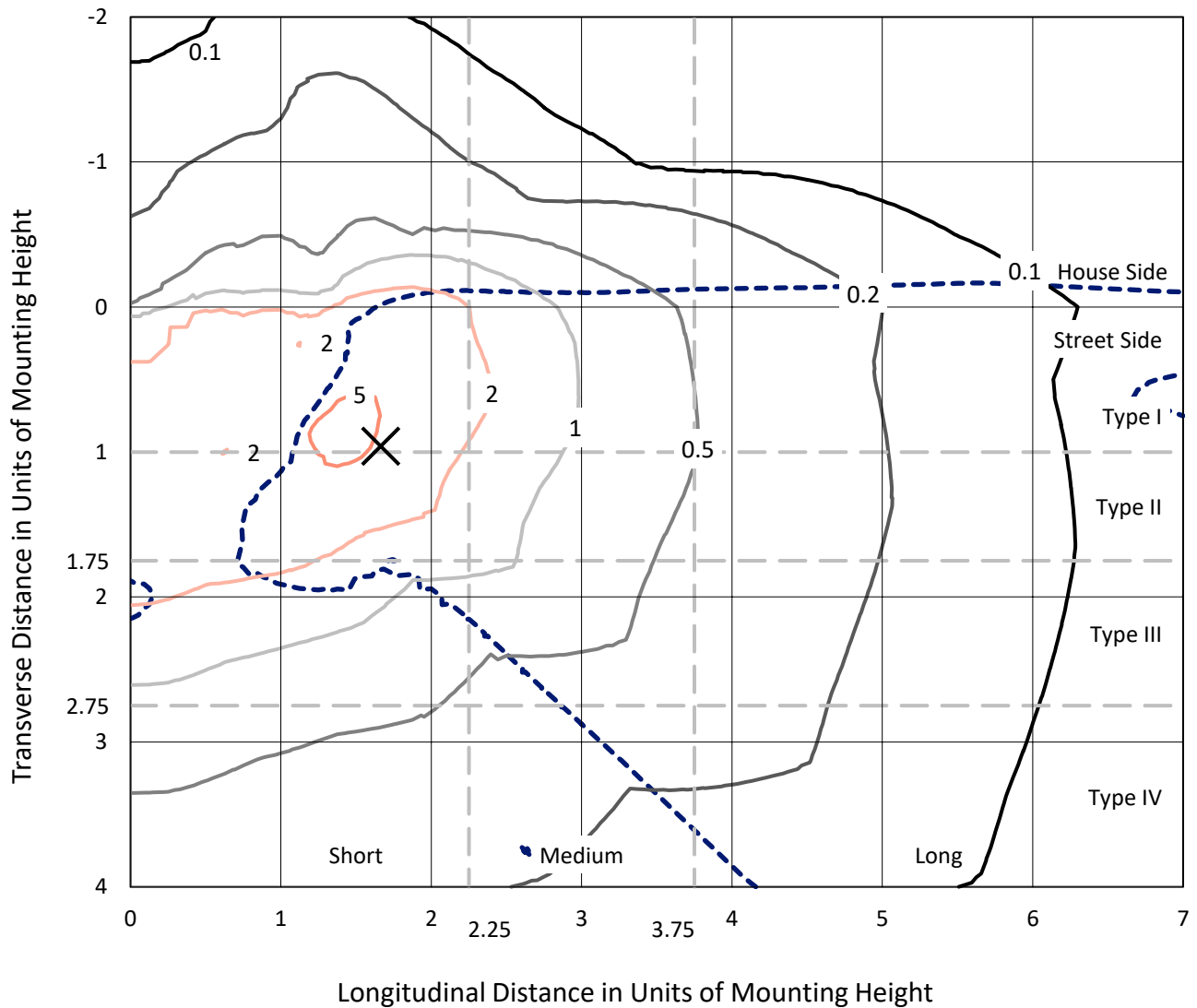
Input Watts (W): 56.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

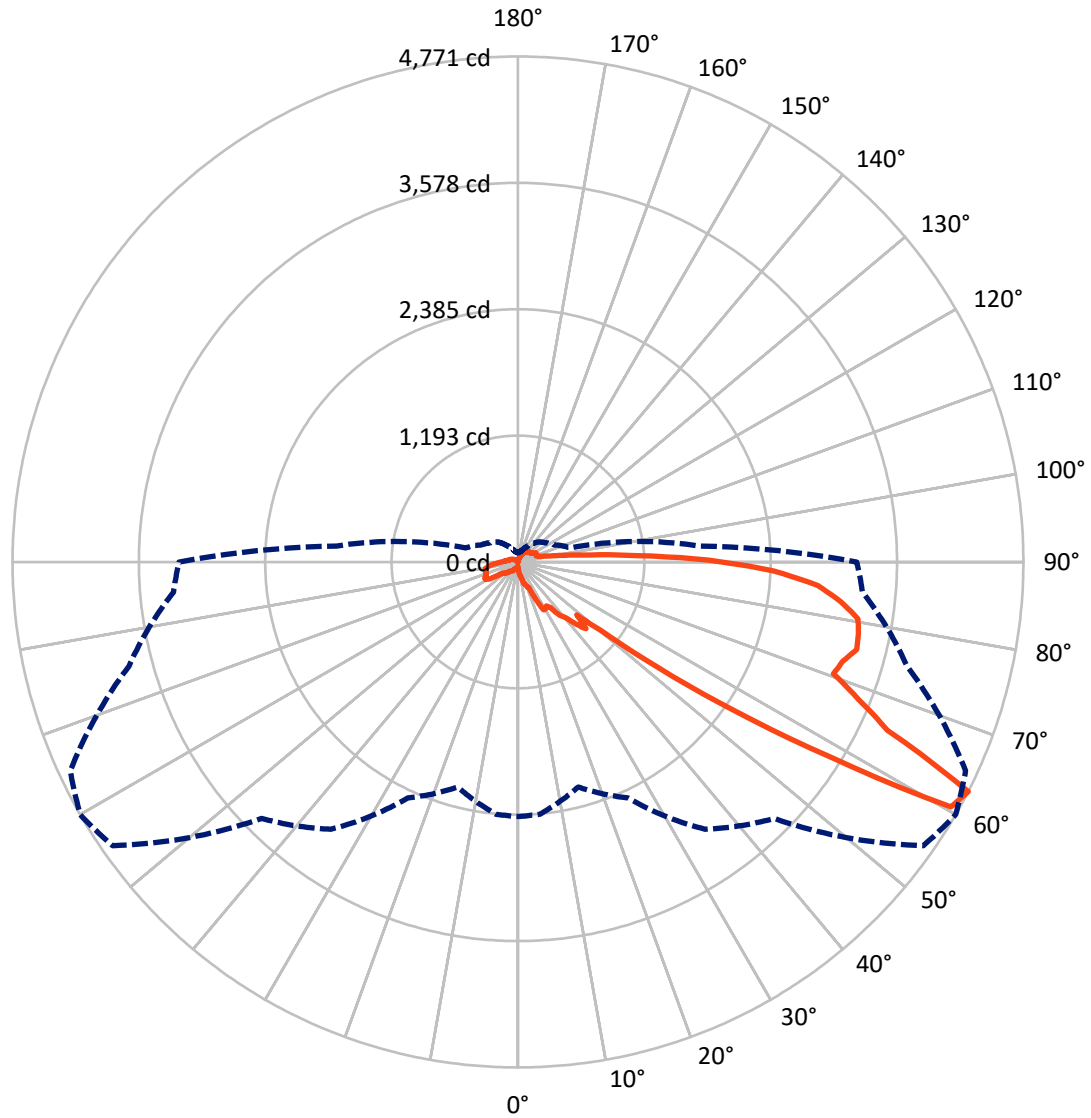
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 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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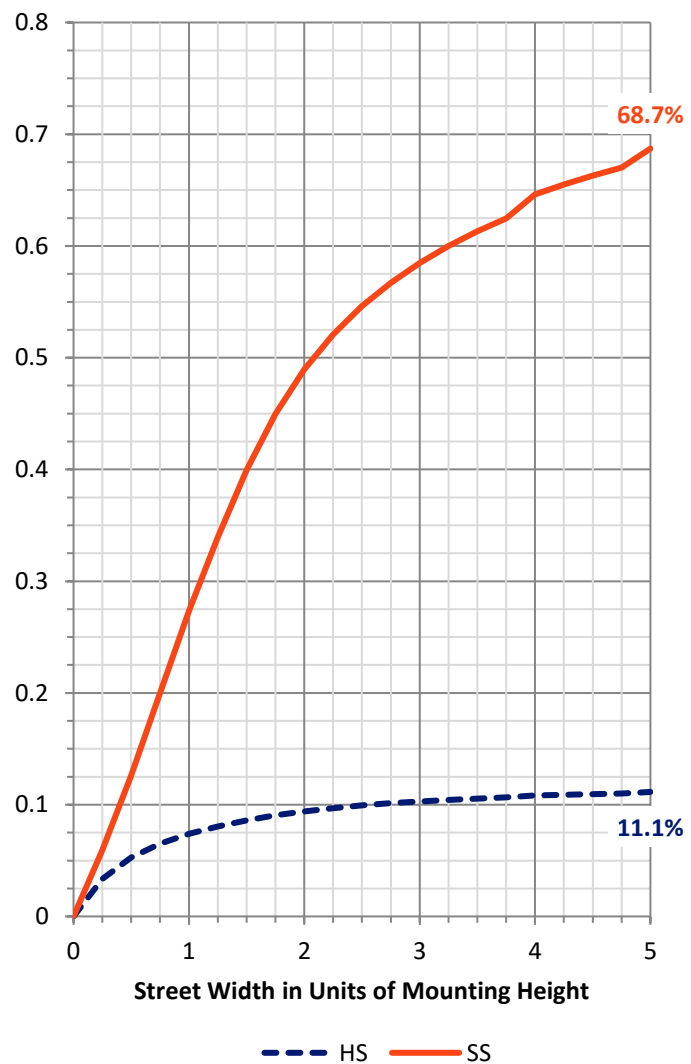
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	839.1	167.3	1006.4
	% Fixture	11.7	2.3	14.1
Street Side	Lumens	5463.8	682.7	6146.6
	% Fixture	76.4	9.5	85.9
Total	Lumens	6303.0	850.0	7153.0
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.1
10°-20°	34.4	0.5
20°-30°	102.3	1.4
30°-40°	205.5	2.9
40°-50°	361.7	5.1
50°-60°	998.6	14.0
60°-70°	1726.6	24.1
70°-80°	1602.7	22.4
80°-90°	1263.7	17.7
90°-100°	401.0	5.6
100°-110°	143.0	2.0
110°-120°	117.5	1.6
120°-130°	77.3	1.1
130°-140°	55.0	0.8
140°-150°	35.6	0.5
150°-160°	16.3	0.2
160°-170°	4.0	0.1
170°-180°	0.1	0.0
0°-90°	6303.0	88.1
0°-180°	7153.0	100.0

Coefficient of Utilization



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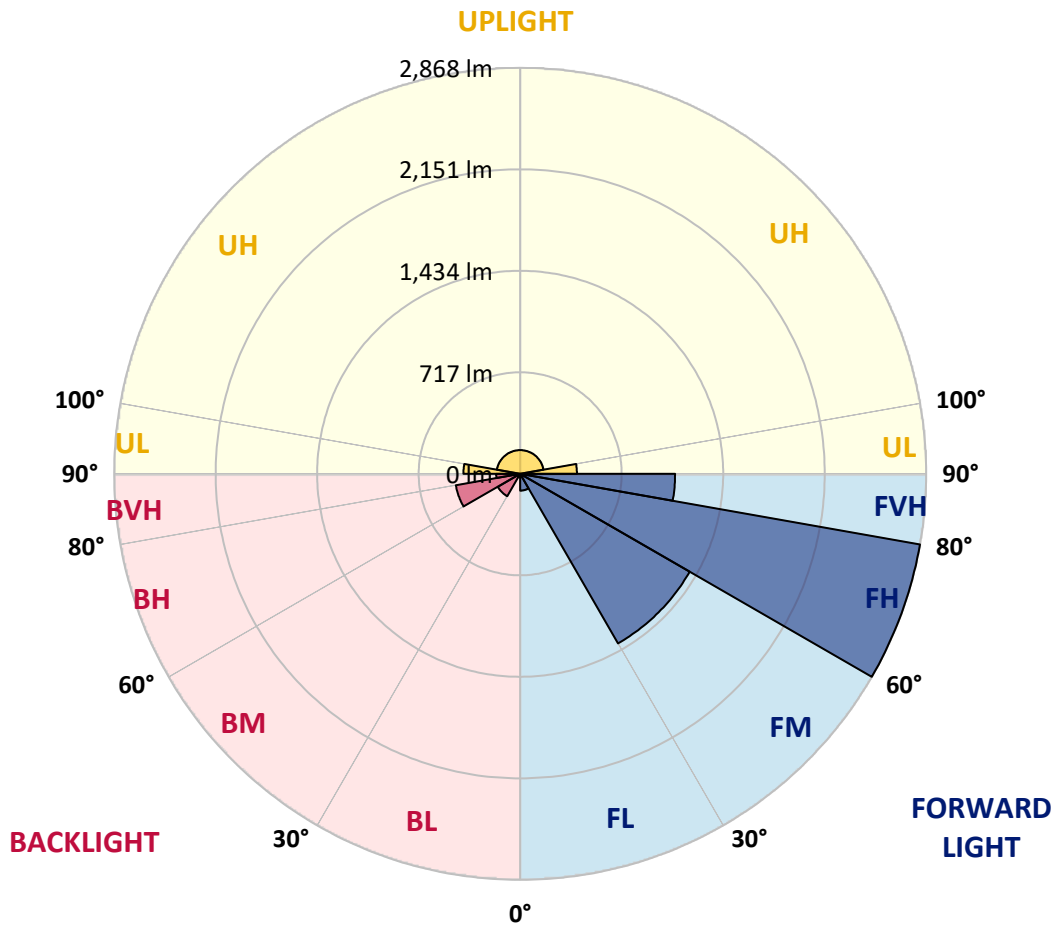
CATALOG NUMBER: ARC-CA6-110-730-U-33-X-5-X-GHSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	118.7	1.7			
FM (30°-60°)	1383.1	19.3			
FH (60°-80°)	2867.7	40.1			G2/5000
FVH (80°-90°)	1094.3	15.3			G5
BL (0°-30°)	25.4	0.4	B0/110		
BM (30°-60°)	182.7	2.6	B0/220		
BH (60°-80°)	461.6	6.5	B1/500		G1/500
BVH (80°-90°)	169.5	2.4			G2/225
UL (90°-100°)	401.0	5.6		U3/500	
UH (100°-180°)	167.3	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°	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
2.5°	84.8	82.6	83.7	83.7	84.8	80.4	76.0	72.7	69.4	64.9	59.4
5°	121.1	118.9	115.6	114.5	112.3	107.9	101.3	99.1	92.5	83.7	72.7
7.5°	147.5	146.4	145.3	142.0	139.8	133.2	125.5	122.2	114.5	102.4	89.2
10°	167.3	167.3	168.4	162.9	153.0	147.5	140.9	138.7	133.2	116.7	100.2
12.5°	183.8	181.6	172.8	168.4	164.0	165.1	166.2	165.1	162.9	135.4	112.3
15°	199.2	197.0	190.4	184.9	181.6	192.6	216.9	214.7	213.6	170.6	131.0
17.5°	210.3	210.3	216.9	221.3	226.8	210.3	205.9	212.5	220.2	188.2	148.6
20°	242.2	237.8	232.3	227.9	255.4	243.3	247.7	255.4	260.9	210.3	162.9
22.5°	227.9	229.0	253.2	262.0	248.8	242.2	257.6	260.9	262.0	241.1	169.5
25°	311.5	297.2	288.4	315.9	313.7	362.2	376.5	386.4	386.4	326.9	236.7
27.5°	430.4	430.4	467.8	540.5	528.4	529.5	513.0	511.9	532.8	552.6	360.0
30°	466.7	478.9	583.4	619.8	659.4	609.8	555.9	514.1	522.9	629.7	419.4
32.5°	477.8	488.8	615.4	575.7	590.0	570.2	577.9	493.2	472.2	580.1	408.4
35°	417.2	432.6	536.1	485.5	457.9	517.4	588.9	528.4	518.5	476.7	369.9
37.5°	557.0	564.7	601.0	593.3	602.1	605.4	691.3	636.3	647.3	575.7	467.8
40°	639.6	630.8	772.8	806.9	793.7	781.6	773.9	689.1	702.3	667.1	633.0
42.5°	786.0	776.1	876.2	897.2	900.5	868.5	904.9	798.1	765.1	692.4	788.2
45°	795.9	801.4	896.1	842.1	898.3	956.6	1022.7	899.4	839.9	717.7	915.9
47.5°	704.5	728.7	936.8	889.5	834.4	782.7	808.0	745.2	696.8	568.0	880.6
50°	718.8	728.7	861.9	805.8	670.4	830.0	1052.4	1007.2	954.4	704.5	848.7
52.5°	1017.1	1012.7	1071.1	1074.4	1108.5	1246.1	1685.3	1649.0	1657.8	1371.6	1263.7
55°	1394.7	1392.5	1540.0	1775.6	1970.5	2037.6	2611.1	2468.0	2403.1	2125.7	2231.3
57.5°	1803.1	1821.8	1886.8	2217.0	2550.6	2637.5	3535.8	3462.1	3318.9	2772.9	3054.8
60°	2233.5	2222.5	2126.8	2343.6	2877.5	3311.2	4658.6	4693.9	4408.7	3490.7	3334.4
62.5°	2403.1	2388.8	2198.3	2457.0	3079.0	3423.5	4669.6	4770.9	4661.9	3801.1	3263.9
65°	2374.4	2341.4	2088.2	2291.9	2599.0	2912.7	4168.8	3833.0	4011.4	3887.0	3085.6
67.5°	2262.2	2254.5	2018.9	2131.2	2331.5	2372.2	3807.7	3468.7	3532.5	3964.0	3138.4
70°	2121.3	2119.1	1940.7	2025.5	2310.6	2268.8	3524.8	3160.4	3123.0	3547.9	3151.6
72.5°	2125.7	2123.5	1926.4	1955.0	2261.1	2192.8	3495.1	3204.5	3136.2	3343.2	2999.7
75°	2162.0	2164.2	1955.0	1987.0	2330.4	2208.2	3565.5	3302.4	3233.1	3323.3	2878.6
77.5°	2126.8	2144.4	1938.5	2010.1	2374.4	2206.0	3532.5	3283.7	3185.7	3160.4	2647.5
80°	2009.0	2033.2	1848.3	1930.8	2334.8	2235.7	3505.0	3255.1	3130.7	2992.0	2481.2
82.5°	1762.4	1787.7	1645.7	1721.7	2171.9	2113.6	3312.3	3070.2	2959.0	2716.8	2264.4
85°	1514.7	1573.1	1503.7	1514.7	1917.6	1935.2	3052.5	2839.0	2761.9	2550.6	2190.6
87.5°	1250.5	1301.2	1236.2	1158.1	1436.6	1537.8	2524.2	2418.5	2397.6	2251.2	1901.1
90°	925.8	972.0	933.5	831.1	973.1	1037.0	1860.4	1802.0	1847.2	1679.8	1306.7
92.5°	671.5	679.2	634.1	549.3	648.4	679.2	1219.7	1130.5	1183.4	1029.3	766.2
95°	449.1	467.8	432.6	396.3	470.0	473.3	751.9	685.8	657.2	591.1	457.9
97.5°	329.1	330.2	317.0	284.0	330.2	334.6	499.8	450.2	424.9	397.4	317.0
100°	260.9	260.9	241.1	220.2	230.1	238.9	347.9	313.7	300.5	288.4	238.9
102.5°	227.9	226.8	210.3	189.3	188.2	192.6	263.1	240.0	230.1	222.4	188.2
105°	215.8	214.7	198.1	176.1	170.6	167.3	219.1	203.7	197.0	190.4	169.5
107.5°	213.6	211.4	194.8	175.0	166.2	157.4	197.0	183.8	184.9	178.3	162.9
110°	215.8	215.8	201.4	189.3	175.0	162.9	198.1	183.8	188.2	186.0	169.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	210.3	215.8	210.3	202.5	187.1	177.2	207.0	190.4	195.9	195.9	175.0
115°	198.1	203.7	203.7	195.9	181.6	178.3	204.8	190.4	192.6	189.3	162.9
117.5°	181.6	184.9	182.7	173.9	161.8	159.6	190.4	183.8	183.8	173.9	151.9
120°	169.5	162.9	154.1	147.5	140.9	146.4	171.7	165.1	159.6	155.2	138.7
122.5°	151.9	144.2	134.3	131.0	126.6	134.3	156.3	150.8	145.3	143.1	131.0
125°	125.5	125.5	121.1	118.9	117.8	128.8	154.1	148.6	140.9	136.5	122.2
127.5°	121.1	121.1	117.8	115.6	116.7	129.9	150.8	145.3	136.5	131.0	117.8
130°	122.2	120.0	115.6	112.3	113.4	128.8	149.7	143.1	134.3	129.9	117.8
132.5°	115.6	113.4	110.1	107.9	106.8	122.2	142.0	138.7	132.1	122.2	109.0
135°	112.3	110.1	107.9	106.8	106.8	118.9	135.4	132.1	125.5	114.5	100.2
137.5°	111.2	109.0	104.6	103.5	102.4	113.4	126.6	124.4	117.8	107.9	95.8
140°	105.7	102.4	99.1	98.0	98.0	106.8	120.0	117.8	111.2	103.5	92.5
142.5°	98.0	95.8	92.5	92.5	93.6	102.4	116.7	115.6	107.9	99.1	89.2
145°	93.6	91.4	89.2	90.3	91.4	99.1	110.1	109.0	103.5	95.8	85.9
147.5°	85.9	84.8	82.6	81.5	83.7	90.3	102.4	102.4	99.1	89.2	79.3
150°	74.9	73.8	71.6	70.5	72.7	79.3	89.2	89.2	85.9	76.0	67.1
152.5°	62.7	61.6	61.6	62.7	64.9	68.3	77.1	78.2	74.9	64.9	57.2
155°	55.0	53.9	53.9	55.0	58.3	61.6	67.1	67.1	63.8	57.2	49.5
157.5°	47.3	46.2	46.2	47.3	50.6	52.8	58.3	57.2	55.0	49.5	42.9
160°	36.3	35.2	35.2	36.3	39.6	41.8	46.2	46.2	45.1	41.8	36.3
162.5°	27.5	26.4	26.4	27.5	29.7	30.8	34.1	35.2	35.2	33.0	28.6
165°	20.9	19.8	19.8	19.8	22.0	23.1	24.2	24.2	24.2	23.1	19.8
167.5°	13.2	12.1	12.1	13.2	14.3	14.3	15.4	15.4	14.3	14.3	12.1
170°	6.6	5.5	5.5	6.6	6.6	6.6	5.5	4.4	4.4	4.4	4.4
172.5°	2.2	1.1	3.3	3.3	2.2	0.0	0.0	1.1	1.1	1.1	0.0
175°	2.2	1.1	3.3	3.3	2.2	0.0	0.0	1.1	0.0	1.1	0.0
177.5°	1.1	1.1	3.3	3.3	2.2	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
2.5°	57.2	56.1	51.7	45.1	38.5	31.9	30.8	31.9	33.0	34.1	35.2
5°	68.3	63.8	55.0	45.1	36.3	27.5	23.1	20.9	19.8	20.9	22.0
7.5°	82.6	77.1	66.0	53.9	42.9	34.1	28.6	23.1	19.8	19.8	20.9
10°	92.5	85.9	72.7	59.4	48.4	38.5	31.9	26.4	23.1	20.9	20.9
12.5°	103.5	94.7	77.1	62.7	50.6	41.8	35.2	29.7	26.4	24.2	24.2
15°	115.6	105.7	84.8	66.0	53.9	44.0	38.5	33.0	28.6	26.4	26.4
17.5°	135.4	118.9	89.2	69.4	56.1	46.2	39.6	34.1	29.7	27.5	27.5
20°	144.2	125.5	90.3	72.7	59.4	48.4	40.7	34.1	30.8	28.6	28.6
22.5°	144.2	124.4	92.5	74.9	62.7	50.6	41.8	35.2	30.8	28.6	28.6
25°	181.6	136.5	94.7	80.4	66.0	52.8	44.0	36.3	31.9	29.7	29.7
27.5°	254.3	178.3	109.0	85.9	70.5	56.1	46.2	38.5	33.0	30.8	30.8
30°	279.6	199.2	124.4	100.2	77.1	59.4	48.4	40.7	35.2	31.9	31.9
32.5°	285.1	195.9	133.2	110.1	88.1	64.9	50.6	42.9	36.3	33.0	33.0
35°	257.6	181.6	133.2	114.5	94.7	72.7	56.1	45.1	37.4	34.1	33.0
37.5°	300.5	195.9	136.5	115.6	98.0	78.2	62.7	48.4	39.6	35.2	35.2
40°	388.6	232.3	153.0	122.2	99.1	81.5	69.4	53.9	42.9	37.4	37.4
42.5°	454.6	262.0	170.6	138.7	107.9	85.9	71.6	58.3	47.3	40.7	39.6
45°	510.8	290.6	186.0	154.1	123.3	95.8	76.0	62.7	51.7	45.1	44.0
47.5°	520.7	304.9	198.1	169.5	135.4	105.7	82.6	67.1	57.2	49.5	48.4
50°	503.1	306.0	202.5	179.4	148.6	116.7	90.3	72.7	61.6	53.9	53.9
52.5°	718.8	382.0	222.4	184.9	153.0	125.5	100.2	79.3	66.0	59.4	59.4
55°	1296.8	617.6	287.3	219.1	164.0	132.1	109.0	89.2	72.7	64.9	64.9
57.5°	2095.9	964.3	379.8	292.8	211.4	153.0	118.9	99.1	81.5	70.5	70.5
60°	2777.3	1360.6	462.3	356.7	277.4	210.3	144.2	112.3	91.4	78.2	77.1
62.5°	3197.9	1717.3	510.8	380.9	317.0	266.4	193.7	140.9	103.5	89.2	87.0
65°	3104.3	1895.6	531.7	378.7	314.8	284.0	231.2	175.0	124.4	102.4	99.1
67.5°	2851.1	1896.7	528.4	362.2	298.3	269.7	230.1	189.3	144.2	115.6	111.2
70°	2724.5	1863.7	511.9	350.1	285.1	252.1	213.6	173.9	142.0	123.3	121.1
72.5°	2664.0	1841.7	502.0	347.9	282.9	245.5	202.5	155.2	127.7	117.8	120.0
75°	2678.3	1854.9	506.4	351.2	287.3	248.8	198.1	144.2	112.3	101.3	103.5
77.5°	2646.4	1828.4	513.0	350.1	285.1	243.3	184.9	132.1	102.4	91.4	90.3
80°	2672.8	1771.2	497.6	339.0	268.6	221.3	164.0	117.8	93.6	85.9	84.8
82.5°	2470.2	1542.2	442.5	309.3	243.3	190.4	137.6	103.5	88.1	79.3	79.3
85°	2264.4	1250.5	379.8	271.9	200.3	149.7	110.1	90.3	77.1	70.5	70.5
87.5°	1718.4	896.1	293.9	223.5	167.3	128.8	100.2	87.0	76.0	71.6	70.5
90°	1062.3	552.6	219.1	178.3	142.0	114.5	94.7	83.7	74.9	71.6	71.6
92.5°	594.4	353.4	169.5	146.4	122.2	102.4	87.0	76.0	68.3	64.9	64.9
95°	402.9	264.2	145.3	131.0	109.0	90.3	76.0	66.0	59.4	55.0	55.0
97.5°	291.7	208.1	128.8	117.8	98.0	79.3	67.1	57.2	51.7	49.5	49.5
100°	223.5	168.4	116.7	105.7	87.0	69.4	58.3	49.5	44.0	41.8	41.8
102.5°	179.4	142.0	105.7	95.8	77.1	61.6	49.5	40.7	36.3	35.2	34.1
105°	161.8	132.1	99.1	89.2	70.5	56.1	44.0	36.3	31.9	29.7	29.7
107.5°	157.4	132.1	98.0	87.0	67.1	52.8	39.6	33.0	28.6	26.4	26.4
110°	167.3	139.8	99.1	84.8	62.7	48.4	36.3	29.7	25.3	24.2	24.2



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CATALOG NUMBER: ARC-CA6-110-730-U-33-X-5-X-GHSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	172.8	140.9	94.7	79.3	58.3	44.0	34.1	27.5	24.2	22.0	22.0
115°	158.5	126.6	87.0	70.5	51.7	39.6	31.9	26.4	22.0	19.8	19.8
117.5°	153.0	118.9	84.8	61.6	47.3	36.3	29.7	24.2	20.9	18.7	18.7
120°	153.0	115.6	74.9	53.9	42.9	33.0	27.5	22.0	18.7	17.6	17.6
122.5°	147.5	106.8	66.0	47.3	37.4	28.6	24.2	19.8	17.6	15.4	15.4
125°	134.3	99.1	53.9	42.9	34.1	26.4	22.0	18.7	15.4	14.3	14.3
127.5°	126.6	98.0	50.6	39.6	30.8	24.2	19.8	16.5	13.2	12.1	12.1
130°	125.5	98.0	47.3	35.2	27.5	20.9	17.6	14.3	12.1	11.0	11.0
132.5°	112.3	89.2	45.1	33.0	25.3	19.8	16.5	13.2	11.0	9.9	9.9
135°	101.3	82.6	44.0	30.8	23.1	17.6	14.3	12.1	8.8	8.8	8.8
137.5°	93.6	76.0	44.0	28.6	20.9	15.4	13.2	11.0	7.7	7.7	7.7
140°	88.1	70.5	42.9	27.5	18.7	14.3	12.1	8.8	6.6	6.6	6.6
142.5°	82.6	66.0	39.6	26.4	17.6	12.1	11.0	8.8	6.6	5.5	5.5
145°	76.0	60.5	35.2	24.2	16.5	11.0	9.9	7.7	5.5	4.4	4.4
147.5°	69.4	53.9	30.8	20.9	15.4	9.9	8.8	6.6	4.4	4.4	4.4
150°	59.4	46.2	27.5	18.7	13.2	8.8	7.7	5.5	4.4	3.3	3.3
152.5°	48.4	39.6	24.2	16.5	12.1	7.7	6.6	4.4	3.3	2.2	2.2
155°	42.9	35.2	22.0	14.3	9.9	6.6	5.5	3.3	3.3	2.2	2.2
157.5°	37.4	30.8	19.8	12.1	7.7	4.4	4.4	3.3	2.2	2.2	1.1
160°	30.8	26.4	16.5	9.9	6.6	3.3	3.3	2.2	2.2	1.1	1.1
162.5°	24.2	19.8	12.1	7.7	4.4	2.2	2.2	2.2	2.2	1.1	0.0
165°	16.5	14.3	8.8	5.5	3.3	1.1	1.1	2.2	1.1	1.1	0.0
167.5°	11.0	8.8	5.5	3.3	2.2	0.0	1.1	1.1	1.1	1.1	0.0
170°	4.4	4.4	3.3	2.2	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)