

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: P588592

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

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588592
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-CA6-120-730-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: 7751 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.08')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U3 - G5

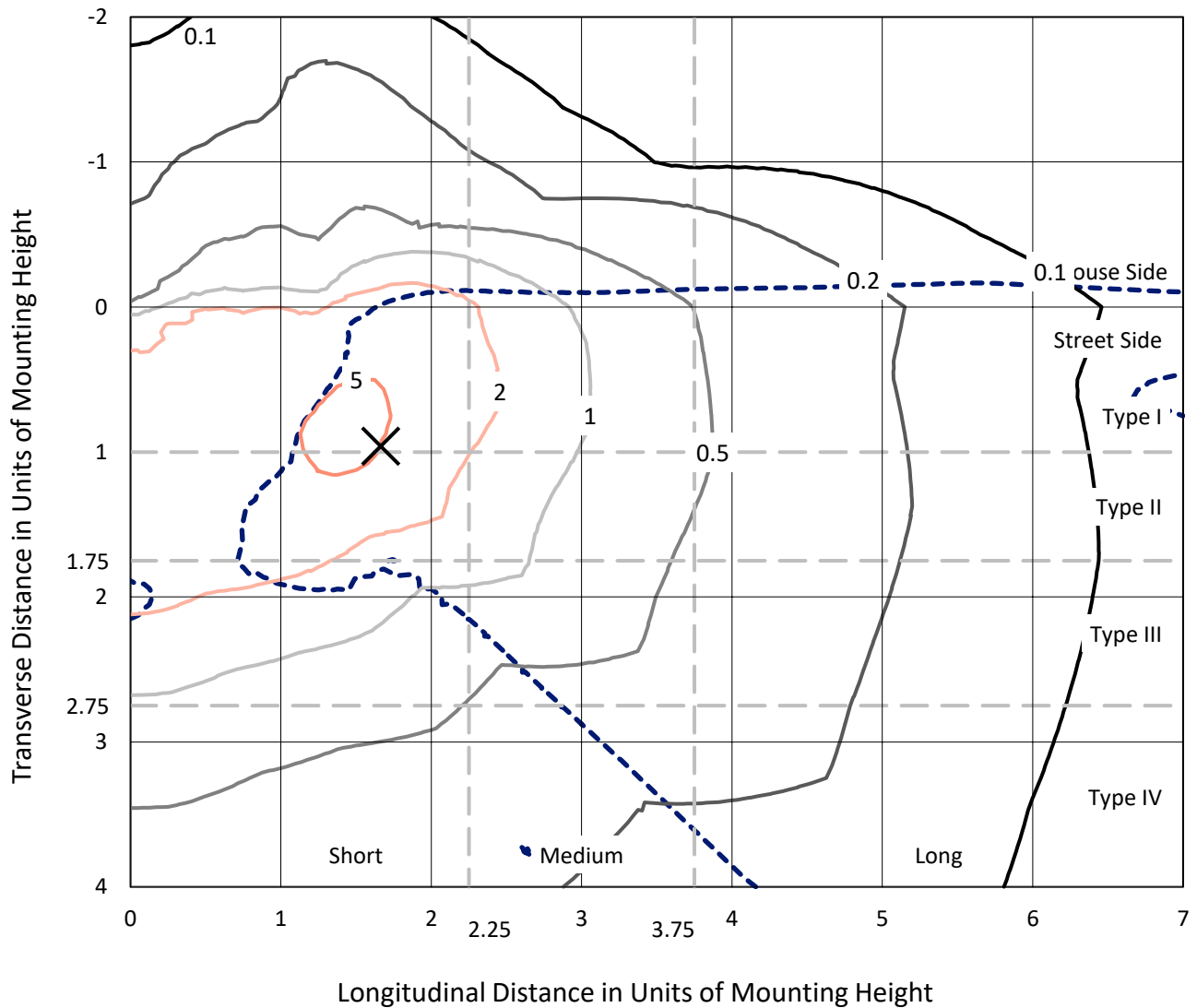
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

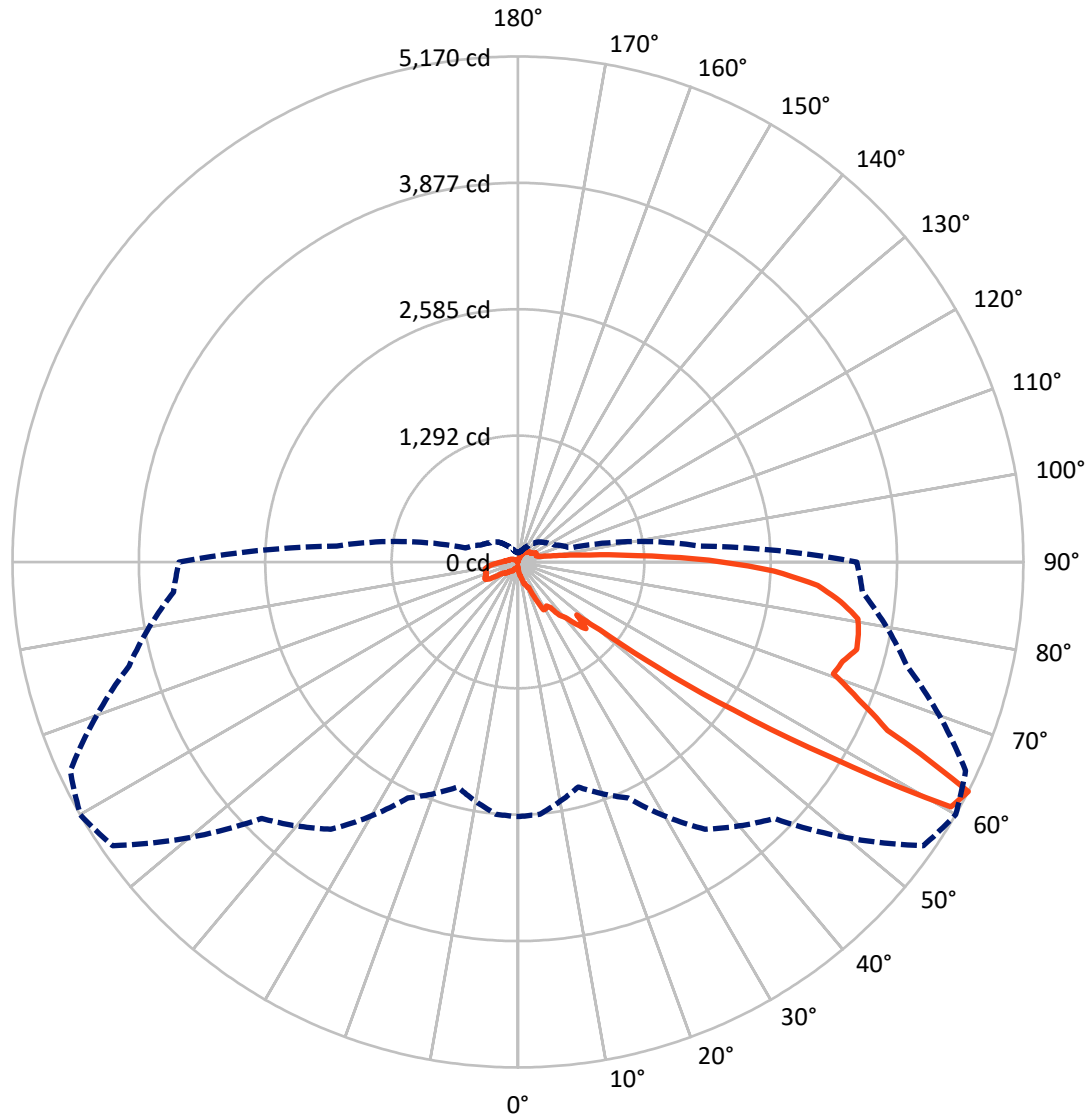
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 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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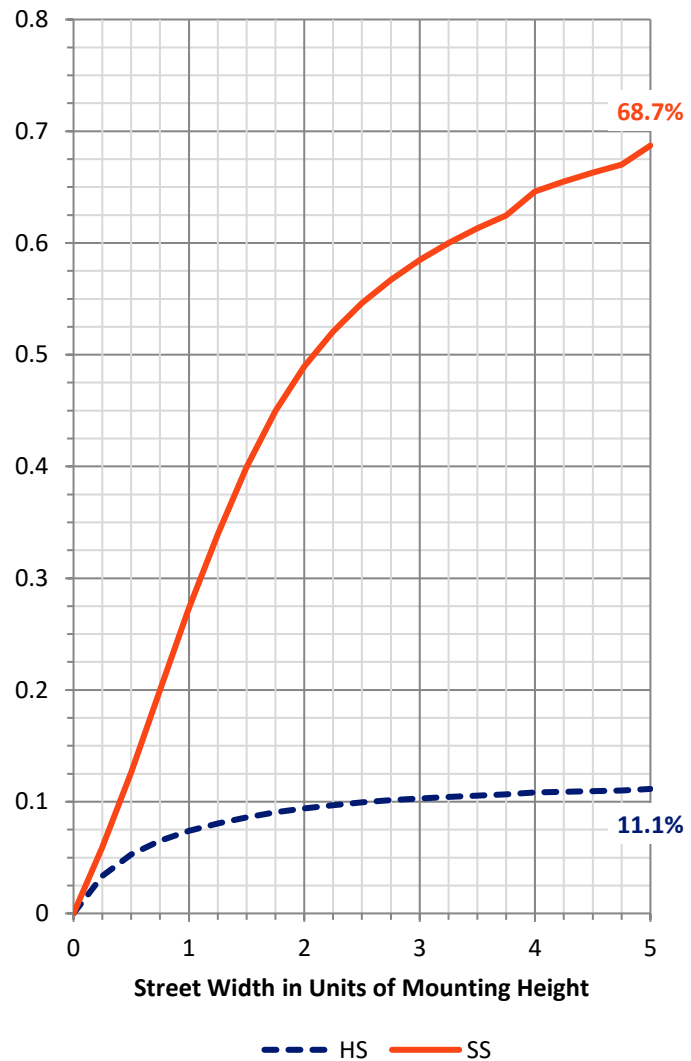
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	909.3	181.3	1090.5
	% Fixture	11.7	2.3	14.1
Street Side	Lumens	5920.6	739.8	6660.4
	% Fixture	76.4	9.5	85.9
Total	Lumens	6829.9	921.1	7751.0
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	0.1
10°-20°	37.3	0.5
20°-30°	110.8	1.4
30°-40°	222.7	2.9
40°-50°	391.9	5.1
50°-60°	1082.1	14.0
60°-70°	1871.0	24.1
70°-80°	1736.7	22.4
80°-90°	1369.4	17.7
90°-100°	434.5	5.6
100°-110°	155.0	2.0
110°-120°	127.4	1.6
120°-130°	83.8	1.1
130°-140°	59.6	0.8
140°-150°	38.6	0.5
150°-160°	17.7	0.2
160°-170°	4.4	0.1
170°-180°	0.2	0.0
0°-90°	6829.9	88.1
0°-180°	7751.0	100.0

Coefficient of Utilization



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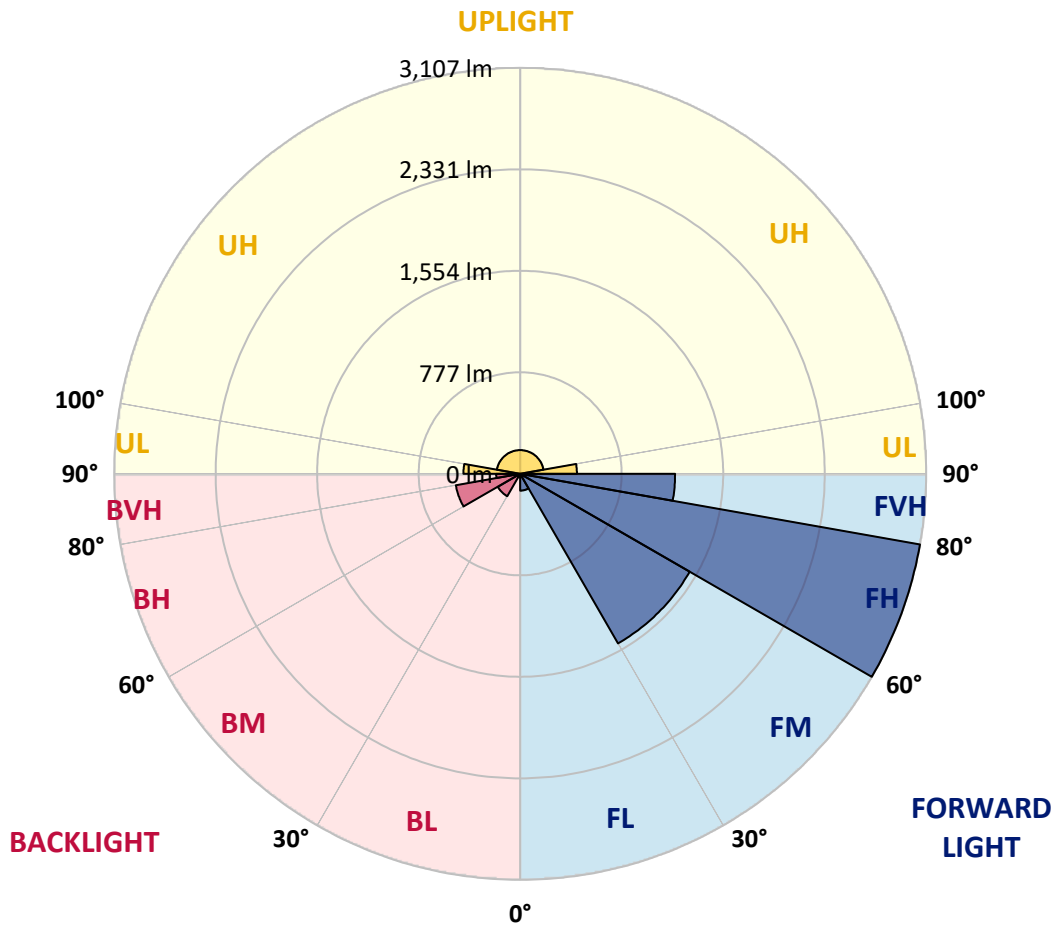
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	128.6	1.7			
FM (30°-60°)	1498.7	19.3			
FH (60°-80°)	3107.5	40.1			G2/5000
FVH (80°-90°)	1185.8	15.3			G5
BL (0°-30°)	27.5	0.4	B0/110		
BM (30°-60°)	198.0	2.6	B0/220		
BH (60°-80°)	500.1	6.5	B2/1000		G2/1000
BVH (80°-90°)	183.6	2.4			G2/225
UL (90°-100°)	434.5	5.6		U3/500	
UH (100°-180°)	181.3	2.3		U3/500	

BUG Rating: B2-U3-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
2.5°	91.8	89.5	90.7	90.7	91.8	87.1	82.3	78.7	75.1	70.4	64.4
5°	131.2	128.8	125.2	124.1	121.7	116.9	109.7	107.4	100.2	90.7	78.7
7.5°	159.8	158.6	157.5	153.9	151.5	144.3	136.0	132.4	124.1	110.9	96.6
10°	181.3	181.3	182.5	176.5	165.8	159.8	152.7	150.3	144.3	126.4	108.5
12.5°	199.2	196.8	187.3	182.5	177.7	178.9	180.1	178.9	176.5	146.7	121.7
15°	215.9	213.5	206.4	200.4	196.8	208.7	235.0	232.6	231.4	184.9	141.9
17.5°	227.8	227.8	235.0	239.8	245.7	227.8	223.1	230.2	238.6	204.0	161.0
20°	262.4	257.7	251.7	246.9	276.7	263.6	268.4	276.7	282.7	227.8	176.5
22.5°	246.9	248.1	274.4	283.9	269.6	262.4	279.1	282.7	283.9	261.2	183.7
25°	337.6	322.1	312.5	342.3	340.0	392.4	408.0	418.7	418.7	354.3	256.5
27.5°	466.4	466.4	507.0	585.7	572.6	573.8	555.9	554.7	577.3	598.8	390.1
30°	505.8	518.9	632.2	671.6	714.5	660.8	602.4	557.1	566.6	682.3	454.5
32.5°	517.7	529.6	666.8	623.9	639.4	617.9	626.2	534.4	511.7	628.6	442.5
35°	452.1	468.8	580.9	526.0	496.2	560.6	638.2	572.6	561.8	516.5	400.8
37.5°	603.6	611.9	651.3	642.9	652.5	656.1	749.1	689.5	701.4	623.9	507.0
40°	693.0	683.5	837.4	874.4	860.0	846.9	838.6	746.7	761.0	722.9	685.9
42.5°	851.7	841.0	949.5	972.2	975.7	941.2	980.5	864.8	829.0	750.3	854.1
45°	862.4	868.4	971.0	912.5	973.4	1036.6	1108.1	974.6	910.1	777.7	992.4
47.5°	763.4	789.7	1015.1	963.8	904.2	848.1	875.5	807.6	755.1	615.5	954.3
50°	778.9	789.7	934.0	873.2	726.4	899.4	1140.4	1091.4	1034.2	763.4	919.7
52.5°	1102.2	1097.4	1160.6	1164.2	1201.2	1350.3	1826.2	1786.9	1796.4	1486.3	1369.4
55°	1511.3	1508.9	1668.8	1924.1	2135.2	2207.9	2829.4	2674.3	2604.0	2303.4	2417.9
57.5°	1953.9	1974.2	2044.5	2402.4	2763.8	2858.0	3831.4	3751.5	3596.4	3004.8	3310.1
60°	2420.3	2408.3	2304.6	2539.6	3118.1	3588.1	5048.1	5086.3	4777.3	3782.5	3613.1
62.5°	2604.0	2588.5	2382.1	2662.4	3336.4	3709.7	5060.0	5169.8	5051.7	4118.9	3536.8
65°	2573.0	2537.2	2262.8	2483.5	2816.3	3156.3	4517.3	4153.5	4346.7	4211.9	3343.5
67.5°	2451.3	2442.9	2187.7	2309.3	2526.4	2570.6	4126.0	3758.6	3827.8	4295.4	3400.8
70°	2298.6	2296.2	2103.0	2194.8	2503.8	2458.4	3819.5	3424.6	3384.1	3844.5	3415.1
72.5°	2303.4	2301.0	2087.5	2118.5	2450.1	2376.1	3787.3	3472.4	3398.4	3622.7	3250.5
75°	2342.7	2345.1	2118.5	2153.1	2525.2	2392.8	3863.6	3578.5	3503.4	3601.2	3119.3
77.5°	2304.6	2323.7	2100.6	2178.1	2573.0	2390.5	3827.8	3558.2	3452.1	3424.6	2868.8
80°	2176.9	2203.2	2002.8	2092.2	2530.0	2422.7	3798.0	3527.2	3392.4	3242.1	2688.7
82.5°	1909.7	1937.2	1783.3	1865.6	2353.5	2290.3	3589.3	3326.8	3206.4	2943.9	2453.7
85°	1641.3	1704.6	1629.4	1641.3	2077.9	2097.0	3307.7	3076.3	2992.8	2763.8	2373.8
87.5°	1355.1	1409.9	1339.6	1254.9	1556.7	1666.4	2735.2	2620.7	2598.0	2439.4	2060.0
90°	1003.2	1053.3	1011.5	900.6	1054.5	1123.7	2015.9	1952.7	2001.6	1820.3	1415.9
92.5°	727.6	736.0	687.1	595.2	702.6	736.0	1321.7	1225.0	1282.3	1115.3	830.2
95°	486.7	507.0	468.8	429.4	509.3	512.9	814.7	743.1	712.1	640.6	496.2
97.5°	356.7	357.9	343.5	307.8	357.9	362.6	541.5	487.9	460.4	430.6	343.5
100°	282.7	282.7	261.2	238.6	249.3	258.8	376.9	340.0	325.6	312.5	258.8
102.5°	246.9	245.7	227.8	205.2	204.0	208.7	285.1	260.0	249.3	241.0	204.0
105°	233.8	232.6	214.7	190.9	184.9	181.3	237.4	220.7	213.5	206.4	183.7
107.5°	231.4	229.0	211.1	189.7	180.1	170.6	213.5	199.2	200.4	193.2	176.5
110°	233.8	233.8	218.3	205.2	189.7	176.5	214.7	199.2	204.0	201.6	183.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	227.8	233.8	227.8	219.5	202.8	192.0	224.3	206.4	212.3	212.3	189.7
115°	214.7	220.7	220.7	212.3	196.8	193.2	221.9	206.4	208.7	205.2	176.5
117.5°	196.8	200.4	198.0	188.5	175.3	173.0	206.4	199.2	199.2	188.5	164.6
120°	183.7	176.5	167.0	159.8	152.7	158.6	186.1	178.9	173.0	168.2	150.3
122.5°	164.6	156.3	145.5	141.9	137.2	145.5	169.4	163.4	157.5	155.1	141.9
125°	136.0	136.0	131.2	128.8	127.6	139.6	167.0	161.0	152.7	147.9	132.4
127.5°	131.2	131.2	127.6	125.2	126.4	140.8	163.4	157.5	147.9	141.9	127.6
130°	132.4	130.0	125.2	121.7	122.9	139.6	162.2	155.1	145.5	140.8	127.6
132.5°	125.2	122.9	119.3	116.9	115.7	132.4	153.9	150.3	143.1	132.4	118.1
135°	121.7	119.3	116.9	115.7	115.7	128.8	146.7	143.1	136.0	124.1	108.5
137.5°	120.5	118.1	113.3	112.1	110.9	122.9	137.2	134.8	127.6	116.9	103.8
140°	114.5	110.9	107.4	106.2	106.2	115.7	130.0	127.6	120.5	112.1	100.2
142.5°	106.2	103.8	100.2	100.2	101.4	110.9	126.4	125.2	116.9	107.4	96.6
145°	101.4	99.0	96.6	97.8	99.0	107.4	119.3	118.1	112.1	103.8	93.0
147.5°	93.0	91.8	89.5	88.3	90.7	97.8	110.9	110.9	107.4	96.6	85.9
150°	81.1	79.9	77.5	76.3	78.7	85.9	96.6	96.6	93.0	82.3	72.8
152.5°	68.0	66.8	66.8	68.0	70.4	74.0	83.5	84.7	81.1	70.4	62.0
155°	59.6	58.4	58.4	59.6	63.2	66.8	72.8	72.8	69.2	62.0	53.7
157.5°	51.3	50.1	50.1	51.3	54.9	57.3	63.2	62.0	59.6	53.7	46.5
160°	39.4	38.2	38.2	39.4	42.9	45.3	50.1	50.1	48.9	45.3	39.4
162.5°	29.8	28.6	28.6	29.8	32.2	33.4	37.0	38.2	38.2	35.8	31.0
165°	22.7	21.5	21.5	21.5	23.9	25.0	26.2	26.2	26.2	25.0	21.5
167.5°	14.3	13.1	13.1	14.3	15.5	15.5	16.7	16.7	15.5	15.5	13.1
170°	7.2	6.0	6.0	7.2	7.2	7.2	6.0	4.8	4.8	4.8	4.8
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
2.5°	62.0	60.8	56.1	48.9	41.7	34.6	33.4	34.6	35.8	37.0	38.2
5°	74.0	69.2	59.6	48.9	39.4	29.8	25.0	22.7	21.5	22.7	23.9
7.5°	89.5	83.5	71.6	58.4	46.5	37.0	31.0	25.0	21.5	21.5	22.7
10°	100.2	93.0	78.7	64.4	52.5	41.7	34.6	28.6	25.0	22.7	22.7
12.5°	112.1	102.6	83.5	68.0	54.9	45.3	38.2	32.2	28.6	26.2	26.2
15°	125.2	114.5	91.8	71.6	58.4	47.7	41.7	35.8	31.0	28.6	28.6
17.5°	146.7	128.8	96.6	75.1	60.8	50.1	42.9	37.0	32.2	29.8	29.8
20°	156.3	136.0	97.8	78.7	64.4	52.5	44.1	37.0	33.4	31.0	31.0
22.5°	156.3	134.8	100.2	81.1	68.0	54.9	45.3	38.2	33.4	31.0	31.0
25°	196.8	147.9	102.6	87.1	71.6	57.3	47.7	39.4	34.6	32.2	32.2
27.5°	275.5	193.2	118.1	93.0	76.3	60.8	50.1	41.7	35.8	33.4	33.4
30°	303.0	215.9	134.8	108.5	83.5	64.4	52.5	44.1	38.2	34.6	34.6
32.5°	308.9	212.3	144.3	119.3	95.4	70.4	54.9	46.5	39.4	35.8	35.8
35°	279.1	196.8	144.3	124.1	102.6	78.7	60.8	48.9	40.6	37.0	35.8
37.5°	325.6	212.3	147.9	125.2	106.2	84.7	68.0	52.5	42.9	38.2	38.2
40°	421.1	251.7	165.8	132.4	107.4	88.3	75.1	58.4	46.5	40.6	40.6
42.5°	492.6	283.9	184.9	150.3	116.9	93.0	77.5	63.2	51.3	44.1	42.9
45°	553.5	314.9	201.6	167.0	133.6	103.8	82.3	68.0	56.1	48.9	47.7
47.5°	564.2	330.4	214.7	183.7	146.7	114.5	89.5	72.8	62.0	53.7	52.5
50°	545.1	331.6	219.5	194.4	161.0	126.4	97.8	78.7	66.8	58.4	58.4
52.5°	778.9	413.9	241.0	200.4	165.8	136.0	108.5	85.9	71.6	64.4	64.4
55°	1405.2	669.2	311.3	237.4	177.7	143.1	118.1	96.6	78.7	70.4	70.4
57.5°	2271.2	1044.9	411.5	317.3	229.0	165.8	128.8	107.4	88.3	76.3	76.3
60°	3009.5	1474.4	501.0	386.5	300.6	227.8	156.3	121.7	99.0	84.7	83.5
62.5°	3465.2	1860.8	553.5	412.7	343.5	288.7	209.9	152.7	112.1	96.6	94.2
65°	3363.8	2054.1	576.1	410.3	341.2	307.8	250.5	189.7	134.8	110.9	107.4
67.5°	3089.5	2055.3	572.6	392.4	323.3	292.2	249.3	205.2	156.3	125.2	120.5
70°	2952.3	2019.5	554.7	379.3	308.9	273.2	231.4	188.5	153.9	133.6	131.2
72.5°	2886.7	1995.6	543.9	376.9	306.6	266.0	219.5	168.2	138.4	127.6	130.0
75°	2902.2	2009.9	548.7	380.5	311.3	269.6	214.7	156.3	121.7	109.7	112.1
77.5°	2867.6	1981.3	555.9	379.3	308.9	263.6	200.4	143.1	110.9	99.0	97.8
80°	2896.2	1919.3	539.2	367.4	291.1	239.8	177.7	127.6	101.4	93.0	91.8
82.5°	2676.7	1671.2	479.5	335.2	263.6	206.4	149.1	112.1	95.4	85.9	85.9
85°	2453.7	1355.1	411.5	294.6	217.1	162.2	119.3	97.8	83.5	76.3	76.3
87.5°	1862.0	971.0	318.5	242.1	181.3	139.6	108.5	94.2	82.3	77.5	76.3
90°	1151.1	598.8	237.4	193.2	153.9	124.1	102.6	90.7	81.1	77.5	77.5
92.5°	644.1	382.9	183.7	158.6	132.4	110.9	94.2	82.3	74.0	70.4	70.4
95°	436.6	286.3	157.5	141.9	118.1	97.8	82.3	71.6	64.4	59.6	59.6
97.5°	316.1	225.4	139.6	127.6	106.2	85.9	72.8	62.0	56.1	53.7	53.7
100°	242.1	182.5	126.4	114.5	94.2	75.1	63.2	53.7	47.7	45.3	45.3
102.5°	194.4	153.9	114.5	103.8	83.5	66.8	53.7	44.1	39.4	38.2	37.0
105°	175.3	143.1	107.4	96.6	76.3	60.8	47.7	39.4	34.6	32.2	32.2
107.5°	170.6	143.1	106.2	94.2	72.8	57.3	42.9	35.8	31.0	28.6	28.6
110°	181.3	151.5	107.4	91.8	68.0	52.5	39.4	32.2	27.4	26.2	26.2



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	187.3	152.7	102.6	85.9	63.2	47.7	37.0	29.8	26.2	23.9	23.9
115°	171.8	137.2	94.2	76.3	56.1	42.9	34.6	28.6	23.9	21.5	21.5
117.5°	165.8	128.8	91.8	66.8	51.3	39.4	32.2	26.2	22.7	20.3	20.3
120°	165.8	125.2	81.1	58.4	46.5	35.8	29.8	23.9	20.3	19.1	19.1
122.5°	159.8	115.7	71.6	51.3	40.6	31.0	26.2	21.5	19.1	16.7	16.7
125°	145.5	107.4	58.4	46.5	37.0	28.6	23.9	20.3	16.7	15.5	15.5
127.5°	137.2	106.2	54.9	42.9	33.4	26.2	21.5	17.9	14.3	13.1	13.1
130°	136.0	106.2	51.3	38.2	29.8	22.7	19.1	15.5	13.1	11.9	11.9
132.5°	121.7	96.6	48.9	35.8	27.4	21.5	17.9	14.3	11.9	10.7	10.7
135°	109.7	89.5	47.7	33.4	25.0	19.1	15.5	13.1	9.5	9.5	9.5
137.5°	101.4	82.3	47.7	31.0	22.7	16.7	14.3	11.9	8.3	8.3	8.3
140°	95.4	76.3	46.5	29.8	20.3	15.5	13.1	9.5	7.2	7.2	7.2
142.5°	89.5	71.6	42.9	28.6	19.1	13.1	11.9	9.5	7.2	6.0	6.0
145°	82.3	65.6	38.2	26.2	17.9	11.9	10.7	8.3	6.0	4.8	4.8
147.5°	75.1	58.4	33.4	22.7	16.7	10.7	9.5	7.2	4.8	4.8	4.8
150°	64.4	50.1	29.8	20.3	14.3	9.5	8.3	6.0	4.8	3.6	3.6
152.5°	52.5	42.9	26.2	17.9	13.1	8.3	7.2	4.8	3.6	2.4	2.4
155°	46.5	38.2	23.9	15.5	10.7	7.2	6.0	3.6	3.6	2.4	2.4
157.5°	40.6	33.4	21.5	13.1	8.3	4.8	4.8	3.6	2.4	2.4	1.2
160°	33.4	28.6	17.9	10.7	7.2	3.6	3.6	2.4	2.4	1.2	1.2
162.5°	26.2	21.5	13.1	8.3	4.8	2.4	2.4	2.4	2.4	1.2	0.0
165°	17.9	15.5	9.5	6.0	3.6	1.2	1.2	2.4	1.2	1.2	0.0
167.5°	11.9	9.5	6.0	3.6	2.4	0.0	1.2	1.2	1.2	1.2	0.0
170°	4.8	4.8	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)