

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: P588594

Luminaire Tested: **ARC-CA6-120-740-U-33-X-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588594
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-CA6-120-740-U-33-X-5-X-GHSS
Description: GENERATIONS SERIES AVENUE WITH NO CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD
Light Source: (3) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7933 lumens
Efficiency: N/A
Efficacy: 132.7 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

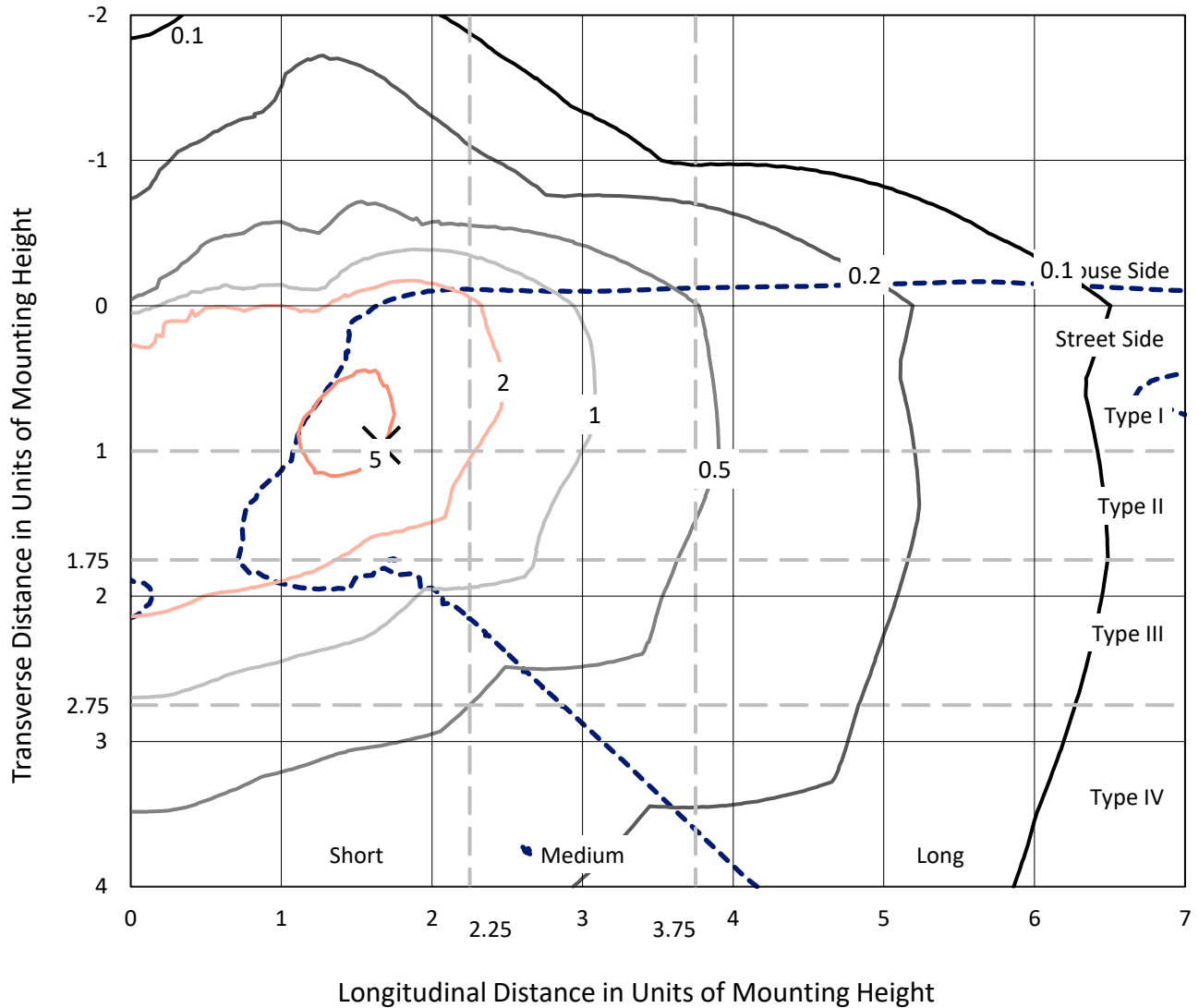
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

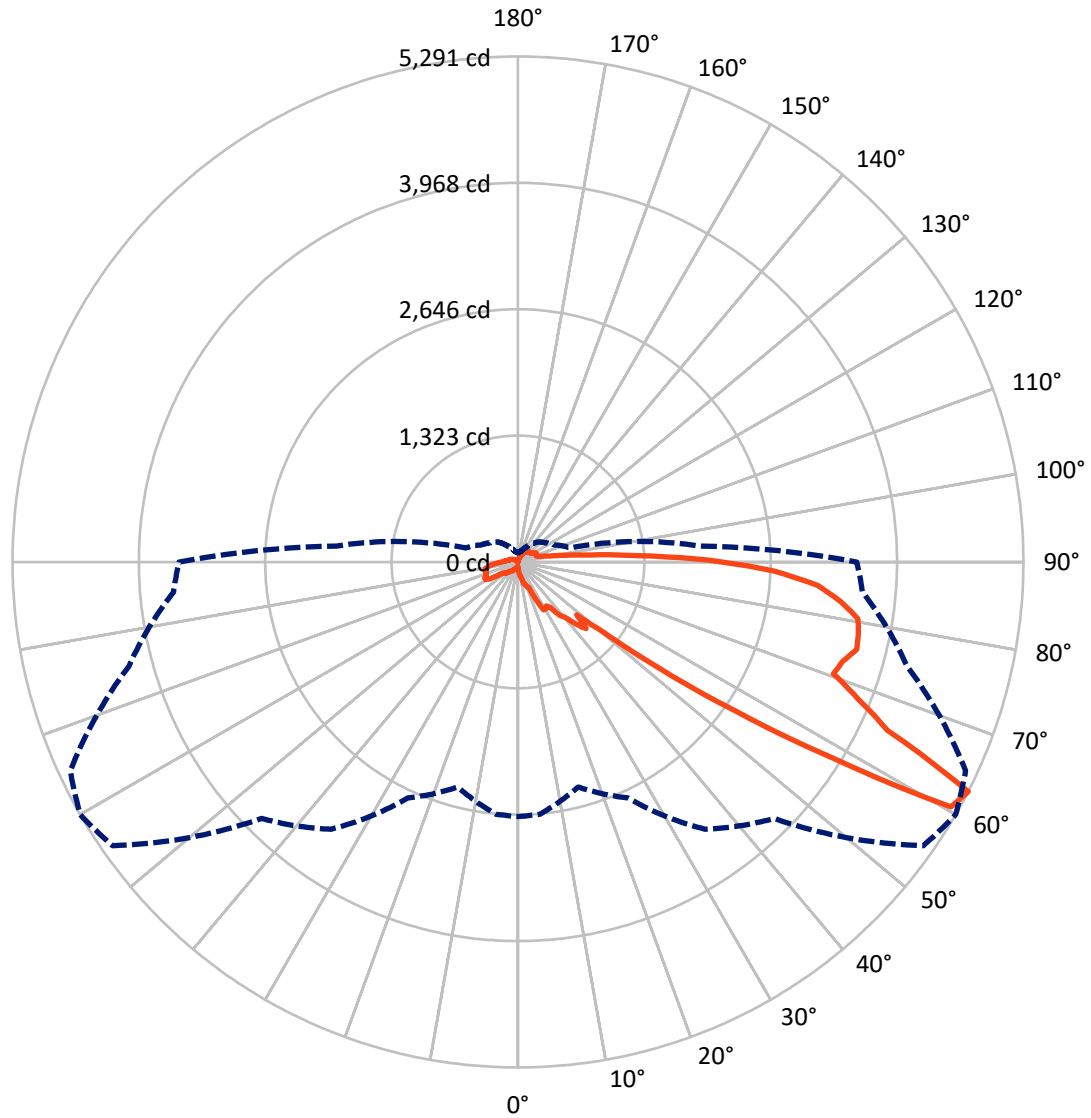
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.5 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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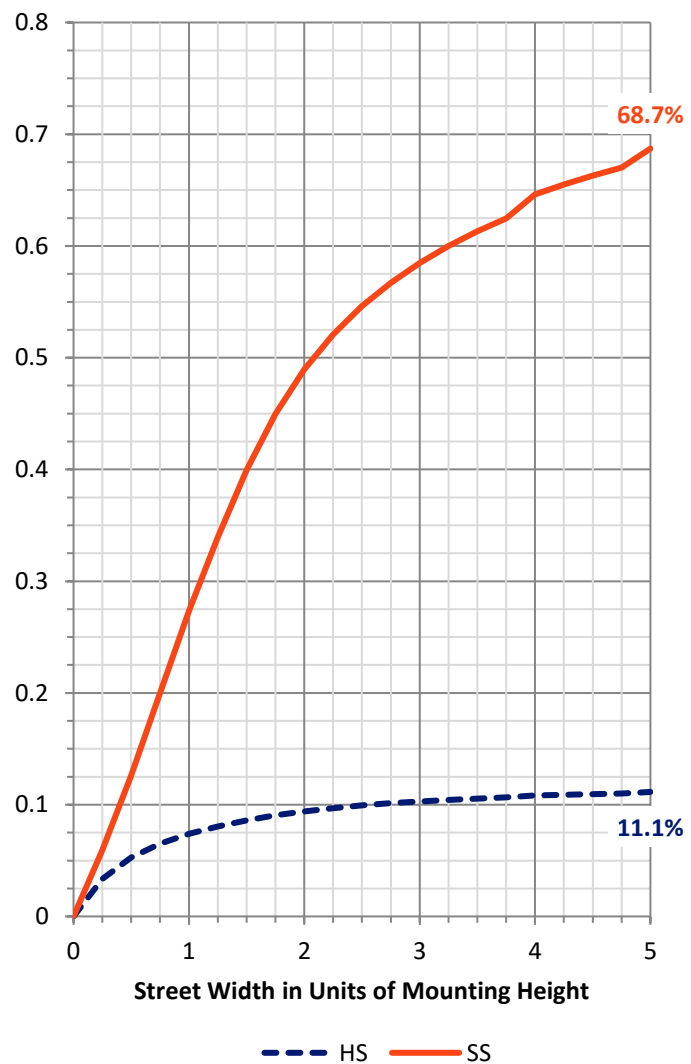
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	930.6	185.5	1116.2
	% Fixture	11.7	2.3	14.1
Street Side	Lumens	6059.6	757.2	6816.8
	% Fixture	76.4	9.5	85.9
Total	Lumens	6990.3	942.7	7933.0
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	0.1
10°-20°	38.1	0.5
20°-30°	113.4	1.4
30°-40°	227.9	2.9
40°-50°	401.1	5.1
50°-60°	1107.5	14.0
60°-70°	1914.9	24.1
70°-80°	1777.4	22.4
80°-90°	1401.5	17.7
90°-100°	444.7	5.6
100°-110°	158.7	2.0
110°-120°	130.3	1.6
120°-130°	85.7	1.1
130°-140°	61.0	0.8
140°-150°	39.5	0.5
150°-160°	18.1	0.2
160°-170°	4.5	0.1
170°-180°	0.2	0.0
0°-90°	6990.3	88.1
0°-180°	7933.0	100.0

Coefficient of Utilization



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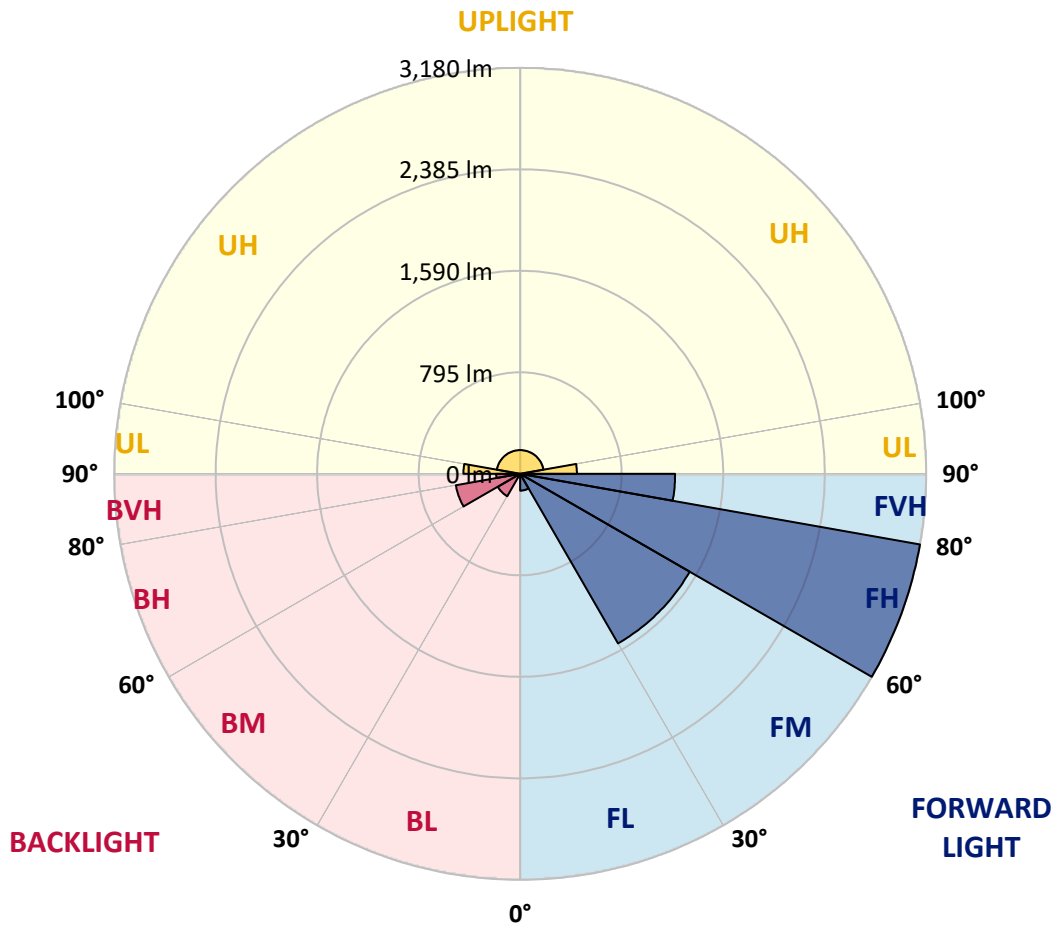
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	131.7	1.7			
FM (30°-60°)	1533.9	19.3			
FH (60°-80°)	3180.4	40.1			G2/5000
FVH (80°-90°)	1213.6	15.3			G5
BL (0°-30°)	28.2	0.4	B0/110		
BM (30°-60°)	202.6	2.6	B0/220		
BH (60°-80°)	511.9	6.5	B2/1000		G2/1000
BVH (80°-90°)	187.9	2.4			G2/225
UL (90°-100°)	444.7	5.6		U3/500	
UH (100°-180°)	185.5	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°	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
2.5°	94.0	91.6	92.8	92.8	94.0	89.1	84.2	80.6	76.9	72.0	65.9
5°	134.3	131.9	128.2	127.0	124.5	119.6	112.3	109.9	102.6	92.8	80.6
7.5°	163.6	162.4	161.2	157.5	155.0	147.7	139.2	135.5	127.0	113.5	98.9
10°	185.6	185.6	186.8	180.7	169.7	163.6	156.3	153.8	147.7	129.4	111.1
12.5°	203.9	201.4	191.7	186.8	181.9	183.1	184.3	183.1	180.7	150.2	124.5
15°	221.0	218.5	211.2	205.1	201.4	213.6	240.5	238.1	236.8	189.2	145.3
17.5°	233.2	233.2	240.5	245.4	251.5	233.2	228.3	235.6	244.2	208.8	164.8
20°	268.6	263.7	257.6	252.7	283.2	269.8	274.7	283.2	289.3	233.2	180.7
22.5°	252.7	253.9	280.8	290.6	275.9	268.6	285.7	289.3	290.6	267.4	188.0
25°	345.5	329.6	319.9	350.4	347.9	401.7	417.5	428.5	428.5	362.6	262.5
27.5°	477.4	477.4	518.9	599.4	586.0	587.2	568.9	567.7	590.9	612.9	399.2
30°	517.6	531.1	647.1	687.3	731.3	676.4	616.5	570.1	579.9	698.3	465.1
32.5°	529.8	542.1	682.5	638.5	654.4	632.4	640.9	546.9	523.7	643.4	452.9
35°	462.7	479.8	594.6	538.4	507.9	573.8	653.2	586.0	575.0	528.6	410.2
37.5°	617.7	626.3	666.6	658.0	667.8	671.5	766.7	705.7	717.9	638.5	518.9
40°	709.3	699.5	857.0	894.9	880.2	866.8	858.3	764.3	778.9	739.8	702.0
42.5°	871.7	860.7	971.8	995.0	998.7	963.3	1003.5	885.1	848.5	767.9	874.1
45°	882.7	888.8	993.8	933.9	996.2	1060.9	1134.2	997.4	931.5	796.0	1015.7
47.5°	781.3	808.2	1038.9	986.4	925.4	868.0	896.1	826.5	772.8	630.0	976.7
50°	797.2	808.2	955.9	893.7	743.5	920.5	1167.1	1117.1	1058.5	781.3	941.3
52.5°	1128.1	1123.2	1187.9	1191.5	1229.4	1382.0	1869.1	1828.8	1838.6	1521.2	1401.5
55°	1546.8	1544.4	1708.0	1969.2	2185.3	2259.8	2895.9	2737.1	2665.1	2357.5	2474.7
57.5°	1999.8	2020.5	2092.5	2458.8	2828.7	2925.2	3921.4	3839.6	3680.9	3075.3	3387.9
60°	2477.1	2464.9	2358.7	2599.2	3191.3	3672.3	5166.6	5205.7	4889.5	3871.3	3698.0
62.5°	2665.1	2649.2	2438.0	2724.9	3414.7	3796.8	5178.8	5291.2	5170.3	4215.6	3619.8
65°	2633.4	2596.7	2316.0	2541.8	2882.4	3230.4	4623.4	4251.0	4448.8	4310.8	3422.0
67.5°	2508.8	2500.3	2239.0	2363.6	2585.8	2630.9	4222.9	3846.9	3917.7	4396.3	3480.6
70°	2352.6	2350.1	2152.4	2246.4	2562.6	2516.2	3909.2	3505.1	3463.5	3934.8	3495.3
72.5°	2357.5	2355.0	2136.5	2168.2	2507.6	2431.9	3876.2	3553.9	3478.2	3707.7	3326.8
75°	2397.7	2400.2	2168.2	2203.6	2584.5	2449.0	3954.3	3662.5	3585.6	3685.7	3192.5
77.5°	2358.7	2378.2	2149.9	2229.3	2633.4	2446.6	3917.7	3641.8	3533.1	3505.1	2936.1
80°	2228.0	2254.9	2049.8	2141.4	2589.4	2479.5	3887.2	3610.1	3472.1	3318.3	2751.8
82.5°	1954.6	1982.7	1825.2	1909.4	2408.7	2344.0	3673.5	3404.9	3281.6	3013.1	2511.3
85°	1679.9	1744.6	1667.7	1679.9	2126.7	2146.3	3385.4	3148.6	3063.1	2828.7	2429.5
87.5°	1386.9	1443.0	1371.0	1284.3	1593.2	1705.5	2799.4	2682.2	2659.0	2496.6	2108.4
90°	1026.7	1078.0	1035.3	921.7	1079.2	1150.0	2063.2	1998.5	2048.6	1863.0	1449.1
92.5°	744.7	753.3	703.2	609.2	719.1	753.3	1352.7	1253.8	1312.4	1141.5	849.7
95°	498.1	518.9	479.8	439.5	521.3	525.0	833.8	760.6	728.8	655.6	507.9
97.5°	365.0	366.3	351.6	315.0	366.3	371.1	554.3	499.3	471.2	440.7	351.6
100°	289.3	289.3	267.4	244.2	255.2	264.9	385.8	347.9	333.3	319.9	264.9
102.5°	252.7	251.5	233.2	210.0	208.8	213.6	291.8	266.1	255.2	246.6	208.8
105°	239.3	238.1	219.8	195.3	189.2	185.6	242.9	225.9	218.5	211.2	188.0
107.5°	236.8	234.4	216.1	194.1	184.3	174.6	218.5	203.9	205.1	197.8	180.7
110°	239.3	239.3	223.4	210.0	194.1	180.7	219.8	203.9	208.8	206.3	188.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	233.2	239.3	233.2	224.6	207.5	196.6	229.5	211.2	217.3	217.3	194.1
115°	219.8	225.9	225.9	217.3	201.4	197.8	227.1	211.2	213.6	210.0	180.7
117.5°	201.4	205.1	202.7	192.9	179.5	177.0	211.2	203.9	203.9	192.9	168.5
120°	188.0	180.7	170.9	163.6	156.3	162.4	190.5	183.1	177.0	172.1	153.8
122.5°	168.5	159.9	148.9	145.3	140.4	148.9	173.4	167.3	161.2	158.7	145.3
125°	139.2	139.2	134.3	131.9	130.6	142.8	170.9	164.8	156.3	151.4	135.5
127.5°	134.3	134.3	130.6	128.2	129.4	144.1	167.3	161.2	151.4	145.3	130.6
130°	135.5	133.1	128.2	124.5	125.7	142.8	166.0	158.7	148.9	144.1	130.6
132.5°	128.2	125.7	122.1	119.6	118.4	135.5	157.5	153.8	146.5	135.5	120.9
135°	124.5	122.1	119.6	118.4	118.4	131.9	150.2	146.5	139.2	127.0	111.1
137.5°	123.3	120.9	116.0	114.8	113.5	125.7	140.4	138.0	130.6	119.6	106.2
140°	117.2	113.5	109.9	108.7	108.7	118.4	133.1	130.6	123.3	114.8	102.6
142.5°	108.7	106.2	102.6	102.6	103.8	113.5	129.4	128.2	119.6	109.9	98.9
145°	103.8	101.3	98.9	100.1	101.3	109.9	122.1	120.9	114.8	106.2	95.2
147.5°	95.2	94.0	91.6	90.3	92.8	100.1	113.5	113.5	109.9	98.9	87.9
150°	83.0	81.8	79.4	78.1	80.6	87.9	98.9	98.9	95.2	84.2	74.5
152.5°	69.6	68.4	68.4	69.6	72.0	75.7	85.5	86.7	83.0	72.0	63.5
155°	61.0	59.8	59.8	61.0	64.7	68.4	74.5	74.5	70.8	63.5	54.9
157.5°	52.5	51.3	51.3	52.5	56.2	58.6	64.7	63.5	61.0	54.9	47.6
160°	40.3	39.1	39.1	40.3	44.0	46.4	51.3	51.3	50.1	46.4	40.3
162.5°	30.5	29.3	29.3	30.5	33.0	34.2	37.8	39.1	39.1	36.6	31.7
165°	23.2	22.0	22.0	22.0	24.4	25.6	26.9	26.9	26.9	25.6	22.0
167.5°	14.7	13.4	13.4	14.7	15.9	15.9	17.1	17.1	15.9	15.9	13.4
170°	7.3	6.1	6.1	7.3	7.3	7.3	6.1	4.9	4.9	4.9	4.9
172.5°	2.4	1.2	3.7	3.7	2.4	0.0	0.0	1.2	1.2	1.2	0.0
175°	2.4	1.2	3.7	3.7	2.4	0.0	0.0	1.2	0.0	1.2	0.0
177.5°	1.2	1.2	3.7	3.7	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°	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
2.5°	63.5	62.3	57.4	50.1	42.7	35.4	34.2	35.4	36.6	37.8	39.1
5°	75.7	70.8	61.0	50.1	40.3	30.5	25.6	23.2	22.0	23.2	24.4
7.5°	91.6	85.5	73.3	59.8	47.6	37.8	31.7	25.6	22.0	22.0	23.2
10°	102.6	95.2	80.6	65.9	53.7	42.7	35.4	29.3	25.6	23.2	23.2
12.5°	114.8	105.0	85.5	69.6	56.2	46.4	39.1	33.0	29.3	26.9	26.9
15°	128.2	117.2	94.0	73.3	59.8	48.8	42.7	36.6	31.7	29.3	29.3
17.5°	150.2	131.9	98.9	76.9	62.3	51.3	44.0	37.8	33.0	30.5	30.5
20°	159.9	139.2	100.1	80.6	65.9	53.7	45.2	37.8	34.2	31.7	31.7
22.5°	159.9	138.0	102.6	83.0	69.6	56.2	46.4	39.1	34.2	31.7	31.7
25°	201.4	151.4	105.0	89.1	73.3	58.6	48.8	40.3	35.4	33.0	33.0
27.5°	282.0	197.8	120.9	95.2	78.1	62.3	51.3	42.7	36.6	34.2	34.2
30°	310.1	221.0	138.0	111.1	85.5	65.9	53.7	45.2	39.1	35.4	35.4
32.5°	316.2	217.3	147.7	122.1	97.7	72.0	56.2	47.6	40.3	36.6	36.6
35°	285.7	201.4	147.7	127.0	105.0	80.6	62.3	50.1	41.5	37.8	36.6
37.5°	333.3	217.3	151.4	128.2	108.7	86.7	69.6	53.7	44.0	39.1	39.1
40°	431.0	257.6	169.7	135.5	109.9	90.3	76.9	59.8	47.6	41.5	41.5
42.5°	504.2	290.6	189.2	153.8	119.6	95.2	79.4	64.7	52.5	45.2	44.0
45°	566.5	322.3	206.3	170.9	136.7	106.2	84.2	69.6	57.4	50.1	48.8
47.5°	577.5	338.2	219.8	188.0	150.2	117.2	91.6	74.5	63.5	54.9	53.7
50°	557.9	339.4	224.6	199.0	164.8	129.4	100.1	80.6	68.4	59.8	59.8
52.5°	797.2	423.6	246.6	205.1	169.7	139.2	111.1	87.9	73.3	65.9	65.9
55°	1438.2	684.9	318.6	242.9	181.9	146.5	120.9	98.9	80.6	72.0	72.0
57.5°	2324.5	1069.5	421.2	324.7	234.4	169.7	131.9	109.9	90.3	78.1	78.1
60°	3080.2	1509.0	512.8	395.6	307.7	233.2	159.9	124.5	101.3	86.7	85.5
62.5°	3546.6	1904.5	566.5	422.4	351.6	295.4	214.9	156.3	114.8	98.9	96.4
65°	3442.8	2102.3	589.7	420.0	349.2	315.0	256.4	194.1	138.0	113.5	109.9
67.5°	3162.0	2103.5	586.0	401.7	330.9	299.1	255.2	210.0	159.9	128.2	123.3
70°	3021.6	2066.9	567.7	388.2	316.2	279.6	236.8	192.9	157.5	136.7	134.3
72.5°	2954.5	2042.5	556.7	385.8	313.8	272.2	224.6	172.1	141.6	130.6	133.1
75°	2970.3	2057.1	561.6	389.5	318.6	275.9	219.8	159.9	124.5	112.3	114.8
77.5°	2934.9	2027.8	568.9	388.2	316.2	269.8	205.1	146.5	113.5	101.3	100.1
80°	2964.2	1964.3	551.8	376.0	297.9	245.4	181.9	130.6	103.8	95.2	94.0
82.5°	2739.6	1710.4	490.8	343.1	269.8	211.2	152.6	114.8	97.7	87.9	87.9
85°	2511.3	1386.9	421.2	301.5	222.2	166.0	122.1	100.1	85.5	78.1	78.1
87.5°	1905.7	993.8	326.0	247.8	185.6	142.8	111.1	96.4	84.2	79.4	78.1
90°	1178.1	612.9	242.9	197.8	157.5	127.0	105.0	92.8	83.0	79.4	79.4
92.5°	659.3	391.9	188.0	162.4	135.5	113.5	96.4	84.2	75.7	72.0	72.0
95°	446.8	293.0	161.2	145.3	120.9	100.1	84.2	73.3	65.9	61.0	61.0
97.5°	323.5	230.7	142.8	130.6	108.7	87.9	74.5	63.5	57.4	54.9	54.9
100°	247.8	186.8	129.4	117.2	96.4	76.9	64.7	54.9	48.8	46.4	46.4
102.5°	199.0	157.5	117.2	106.2	85.5	68.4	54.9	45.2	40.3	39.1	37.8
105°	179.5	146.5	109.9	98.9	78.1	62.3	48.8	40.3	35.4	33.0	33.0
107.5°	174.6	146.5	108.7	96.4	74.5	58.6	44.0	36.6	31.7	29.3	29.3
110°	185.6	155.0	109.9	94.0	69.6	53.7	40.3	33.0	28.1	26.9	26.9



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CATALOG NUMBER: ARC-CA6-120-740-U-33-X-5-X-GHSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	191.7	156.3	105.0	87.9	64.7	48.8	37.8	30.5	26.9	24.4	24.4
115°	175.8	140.4	96.4	78.1	57.4	44.0	35.4	29.3	24.4	22.0	22.0
117.5°	169.7	131.9	94.0	68.4	52.5	40.3	33.0	26.9	23.2	20.8	20.8
120°	169.7	128.2	83.0	59.8	47.6	36.6	30.5	24.4	20.8	19.5	19.5
122.5°	163.6	118.4	73.3	52.5	41.5	31.7	26.9	22.0	19.5	17.1	17.1
125°	148.9	109.9	59.8	47.6	37.8	29.3	24.4	20.8	17.1	15.9	15.9
127.5°	140.4	108.7	56.2	44.0	34.2	26.9	22.0	18.3	14.7	13.4	13.4
130°	139.2	108.7	52.5	39.1	30.5	23.2	19.5	15.9	13.4	12.2	12.2
132.5°	124.5	98.9	50.1	36.6	28.1	22.0	18.3	14.7	12.2	11.0	11.0
135°	112.3	91.6	48.8	34.2	25.6	19.5	15.9	13.4	9.8	9.8	9.8
137.5°	103.8	84.2	48.8	31.7	23.2	17.1	14.7	12.2	8.5	8.5	8.5
140°	97.7	78.1	47.6	30.5	20.8	15.9	13.4	9.8	7.3	7.3	7.3
142.5°	91.6	73.3	44.0	29.3	19.5	13.4	12.2	9.8	7.3	6.1	6.1
145°	84.2	67.1	39.1	26.9	18.3	12.2	11.0	8.5	6.1	4.9	4.9
147.5°	76.9	59.8	34.2	23.2	17.1	11.0	9.8	7.3	4.9	4.9	4.9
150°	65.9	51.3	30.5	20.8	14.7	9.8	8.5	6.1	4.9	3.7	3.7
152.5°	53.7	44.0	26.9	18.3	13.4	8.5	7.3	4.9	3.7	2.4	2.4
155°	47.6	39.1	24.4	15.9	11.0	7.3	6.1	3.7	3.7	2.4	2.4
157.5°	41.5	34.2	22.0	13.4	8.5	4.9	4.9	3.7	2.4	2.4	1.2
160°	34.2	29.3	18.3	11.0	7.3	3.7	3.7	2.4	2.4	1.2	1.2
162.5°	26.9	22.0	13.4	8.5	4.9	2.4	2.4	2.4	2.4	1.2	0.0
165°	18.3	15.9	9.8	6.1	3.7	1.2	1.2	2.4	1.2	1.2	0.0
167.5°	12.2	9.8	6.1	3.7	2.4	0.0	1.2	1.2	1.2	1.2	0.0
170°	4.9	4.9	3.7	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)