

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: P588606

Luminaire Tested: **ARC-CA6-130-740-U-33-X-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588606
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-CA6-130-740-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: 8248 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.08')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U4 - G5

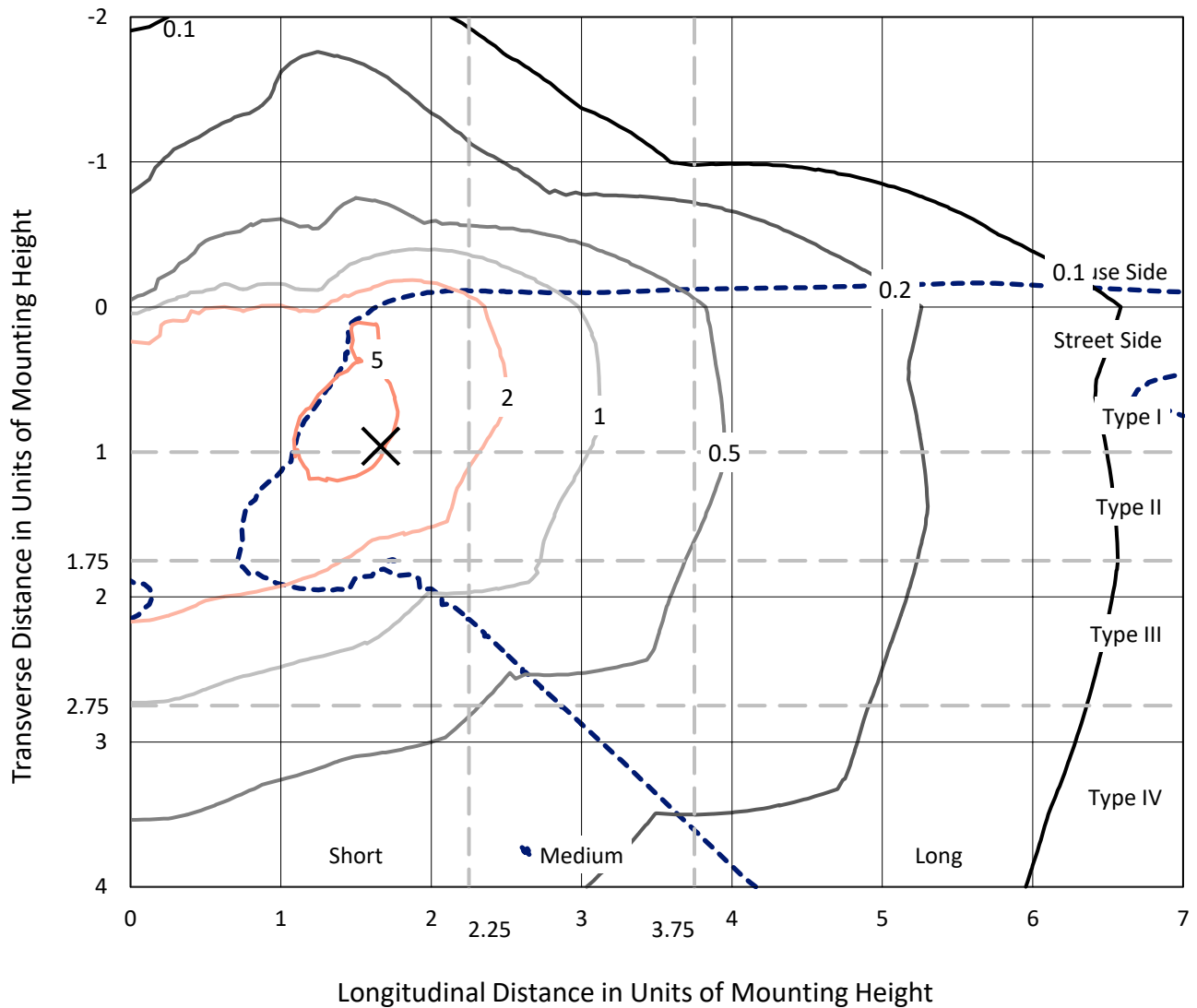
Input Watts (W): 62.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

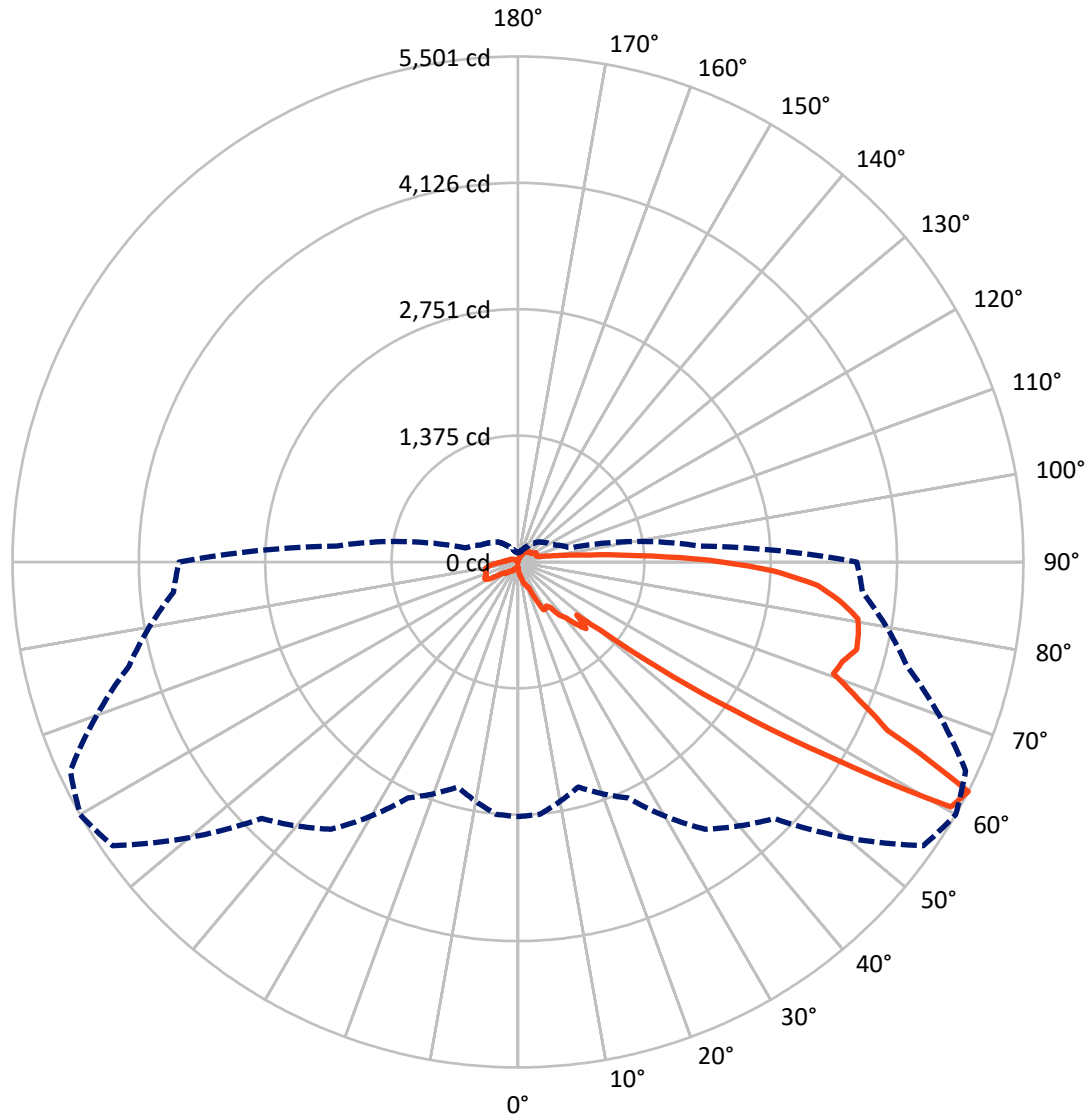
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 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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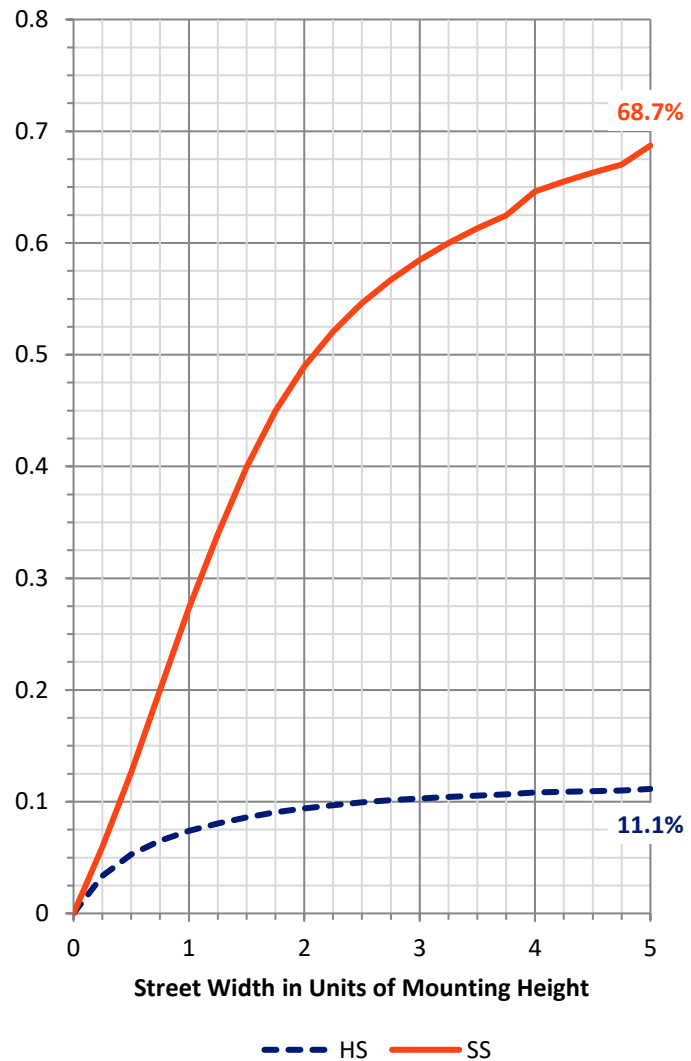
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	967.6	192.9	1160.5
	% Fixture	11.7	2.3	14.1
Street Side	Lumens	6300.3	787.2	7087.5
	% Fixture	76.4	9.5	85.9
Total	Lumens	7267.8	980.2	8248.0
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	0.1
10°-20°	39.7	0.5
20°-30°	117.9	1.4
30°-40°	237.0	2.9
40°-50°	417.1	5.1
50°-60°	1151.5	14.0
60°-70°	1990.9	24.1
70°-80°	1848.0	22.4
80°-90°	1457.2	17.7
90°-100°	462.4	5.6
100°-110°	165.0	2.0
110°-120°	135.5	1.6
120°-130°	89.1	1.1
130°-140°	63.5	0.8
140°-150°	41.0	0.5
150°-160°	18.9	0.2
160°-170°	4.7	0.1
170°-180°	0.2	0.0
0°-90°	7267.8	88.1
0°-180°	8248.0	100.0



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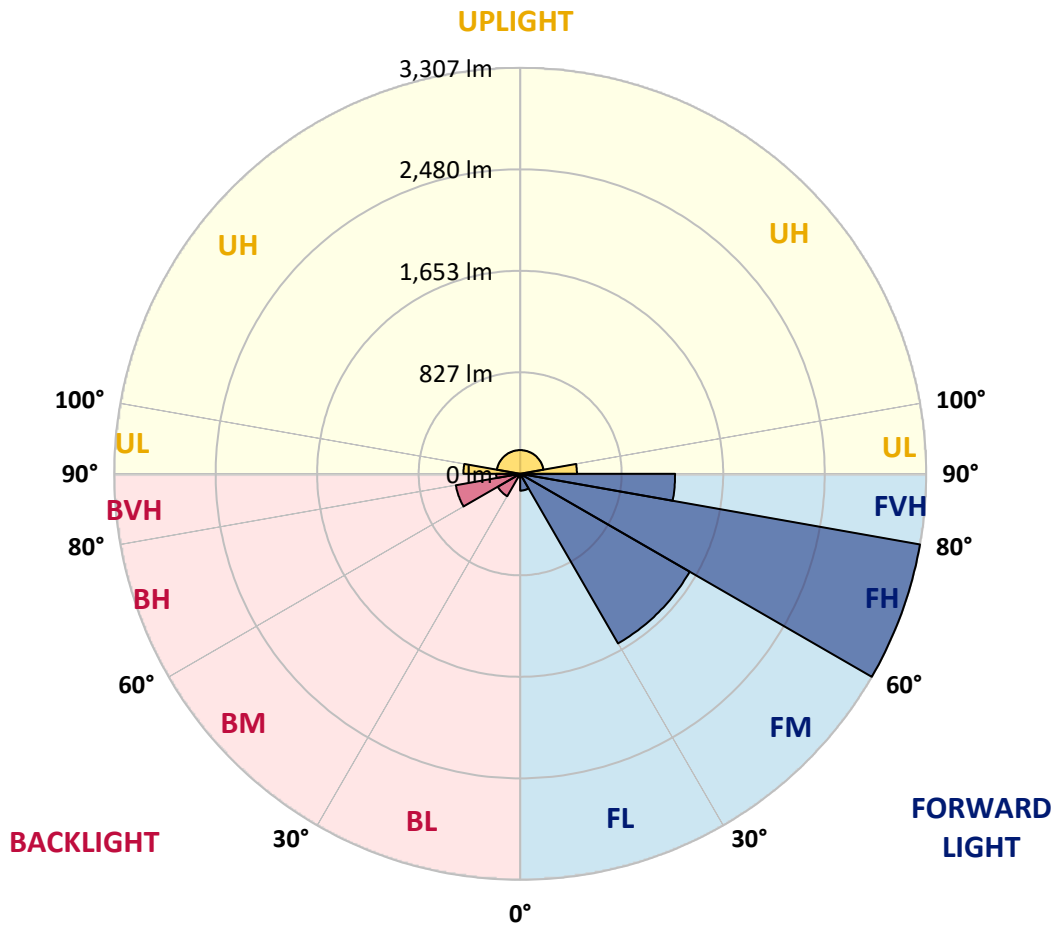
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	136.9	1.7			
FM (30°-60°)	1594.8	19.3			
FH (60°-80°)	3306.7	40.1			G2/5000
FVH (80°-90°)	1261.8	15.3			G5
BL (0°-30°)	29.3	0.4	B0/110		
BM (30°-60°)	210.7	2.6	B0/220		
BH (60°-80°)	532.2	6.5	B2/1000		G2/1000
BVH (80°-90°)	195.4	2.4			G2/225
UL (90°-100°)	462.4	5.6		U3/500	
UH (100°-180°)	192.9	2.3		U3/500	

BUG Rating: B2-U4-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
2.5°	97.7	95.2	96.5	96.5	97.7	92.7	87.6	83.8	80.0	74.9	68.5
5°	139.6	137.1	133.3	132.0	129.5	124.4	116.8	114.2	106.6	96.5	83.8
7.5°	170.1	168.8	167.6	163.7	161.2	153.6	144.7	140.9	132.0	118.0	102.8
10°	192.9	192.9	194.2	187.9	176.4	170.1	162.5	159.9	153.6	134.5	115.5
12.5°	212.0	209.4	199.3	194.2	189.1	190.4	191.7	190.4	187.9	156.1	129.5
15°	229.7	227.2	219.6	213.2	209.4	222.1	250.1	247.5	246.2	196.7	151.0
17.5°	242.4	242.4	250.1	255.1	261.5	242.4	237.4	245.0	253.9	217.1	171.4
20°	279.3	274.2	267.8	262.8	294.5	280.5	285.6	294.5	300.8	242.4	187.9
22.5°	262.8	264.0	291.9	302.1	286.9	279.3	297.0	300.8	302.1	278.0	195.5
25°	359.2	342.7	332.6	364.3	361.8	417.6	434.1	445.5	445.5	377.0	272.9
27.5°	496.3	496.3	539.5	623.2	609.3	610.5	591.5	590.2	614.4	637.2	415.1
30°	538.2	552.2	672.7	714.6	760.3	703.2	641.0	592.8	602.9	726.1	483.6
32.5°	550.9	563.6	709.6	663.9	680.4	657.5	666.4	568.7	544.5	668.9	470.9
35°	481.1	498.8	618.2	559.8	528.0	596.6	679.1	609.3	597.9	549.6	426.5
37.5°	642.3	651.2	693.1	684.2	694.3	698.1	797.1	733.7	746.4	663.9	539.5
40°	737.5	727.3	891.1	930.4	915.2	901.2	892.3	794.6	809.8	769.2	729.9
42.5°	906.3	894.9	1010.4	1034.5	1038.3	1001.5	1043.4	920.3	882.2	798.4	908.8
45°	917.7	924.1	1033.2	971.0	1035.8	1103.0	1179.2	1037.0	968.5	827.6	1056.1
47.5°	812.4	840.3	1080.2	1025.6	962.1	902.5	931.7	859.3	803.5	655.0	1015.5
50°	828.9	840.3	993.9	929.1	773.0	957.1	1213.5	1161.4	1100.5	812.4	978.7
52.5°	1172.9	1167.8	1235.1	1238.9	1278.2	1436.9	1943.3	1901.5	1911.6	1581.6	1457.2
55°	1608.2	1605.7	1775.8	2047.4	2272.1	2349.5	3010.8	2845.8	2770.9	2451.1	2572.9
57.5°	2079.2	2100.7	2175.6	2556.4	2941.0	3041.3	4077.1	3992.0	3827.0	3197.4	3522.4
60°	2575.5	2562.8	2452.3	2702.4	3318.0	3818.1	5371.8	5412.4	5083.7	4025.0	3844.8
62.5°	2770.9	2754.4	2534.8	2833.1	3550.3	3947.6	5384.5	5501.3	5375.6	4383.0	3763.6
65°	2737.9	2699.9	2407.9	2642.7	2996.9	3358.6	4806.9	4419.8	4625.4	4482.0	3557.9
67.5°	2608.5	2599.6	2327.9	2457.4	2688.4	2735.4	4390.6	3999.6	4073.3	4570.8	3618.8
70°	2446.0	2443.5	2237.8	2335.6	2664.3	2616.1	4064.4	3644.2	3601.1	4091.0	3634.1
72.5°	2451.1	2448.5	2221.3	2254.3	2607.2	2528.5	4030.1	3695.0	3616.3	3854.9	3458.9
75°	2493.0	2495.5	2254.3	2291.1	2687.2	2546.3	4111.3	3808.0	3728.0	3832.1	3319.3
77.5°	2452.3	2472.6	2235.3	2317.8	2737.9	2543.7	4073.3	3786.4	3673.4	3644.2	3052.7
80°	2316.5	2344.4	2131.2	2226.4	2692.2	2578.0	4041.5	3753.4	3610.0	3450.0	2861.1
82.5°	2032.2	2061.4	1897.6	1985.2	2504.4	2437.1	3819.4	3540.2	3411.9	3132.7	2611.0
85°	1746.6	1813.9	1733.9	1746.6	2211.2	2231.5	3519.8	3273.6	3184.7	2941.0	2526.0
87.5°	1442.0	1500.3	1425.5	1335.3	1656.5	1773.2	2910.6	2788.7	2764.6	2595.8	2192.1
90°	1067.5	1120.8	1076.4	958.3	1122.1	1195.7	2145.2	2077.9	2129.9	1937.0	1506.7
92.5°	774.3	783.2	731.1	633.4	747.6	783.2	1406.4	1303.6	1364.5	1186.8	883.5
95°	517.9	539.5	498.8	457.0	542.0	545.8	866.9	790.8	757.8	681.6	528.0
97.5°	379.5	380.8	365.6	327.5	380.8	385.9	576.3	519.2	490.0	458.2	365.6
100°	300.8	300.8	278.0	253.9	265.3	275.4	401.1	361.8	346.5	332.6	275.4
102.5°	262.8	261.5	242.4	218.3	217.1	222.1	303.4	276.7	265.3	256.4	217.1
105°	248.8	247.5	228.5	203.1	196.7	192.9	252.6	234.8	227.2	219.6	195.5
107.5°	246.2	243.7	224.7	201.8	191.7	181.5	227.2	212.0	213.2	205.6	187.9
110°	248.8	248.8	232.3	218.3	201.8	187.9	228.5	212.0	217.1	214.5	195.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	242.4	248.8	242.4	233.6	215.8	204.4	238.6	219.6	225.9	225.9	201.8
115°	228.5	234.8	234.8	225.9	209.4	205.6	236.1	219.6	222.1	218.3	187.9
117.5°	209.4	213.2	210.7	200.6	186.6	184.1	219.6	212.0	212.0	200.6	175.2
120°	195.5	187.9	177.7	170.1	162.5	168.8	198.0	190.4	184.1	179.0	159.9
122.5°	175.2	166.3	154.9	151.0	146.0	154.9	180.2	173.9	167.6	165.0	151.0
125°	144.7	144.7	139.6	137.1	135.8	148.5	177.7	171.4	162.5	157.4	140.9
127.5°	139.6	139.6	135.8	133.3	134.5	149.8	173.9	167.6	157.4	151.0	135.8
130°	140.9	138.4	133.3	129.5	130.7	148.5	172.6	165.0	154.9	149.8	135.8
132.5°	133.3	130.7	126.9	124.4	123.1	140.9	163.7	159.9	152.3	140.9	125.7
135°	129.5	126.9	124.4	123.1	123.1	137.1	156.1	152.3	144.7	132.0	115.5
137.5°	128.2	125.7	120.6	119.3	118.0	130.7	146.0	143.4	135.8	124.4	110.4
140°	121.9	118.0	114.2	113.0	113.0	123.1	138.4	135.8	128.2	119.3	106.6
142.5°	113.0	110.4	106.6	106.6	107.9	118.0	134.5	133.3	124.4	114.2	102.8
145°	107.9	105.4	102.8	104.1	105.4	114.2	126.9	125.7	119.3	110.4	99.0
147.5°	99.0	97.7	95.2	93.9	96.5	104.1	118.0	118.0	114.2	102.8	91.4
150°	86.3	85.0	82.5	81.2	83.8	91.4	102.8	102.8	99.0	87.6	77.4
152.5°	72.4	71.1	71.1	72.4	74.9	78.7	88.9	90.1	86.3	74.9	66.0
155°	63.5	62.2	62.2	63.5	67.3	71.1	77.4	77.4	73.6	66.0	57.1
157.5°	54.6	53.3	53.3	54.6	58.4	60.9	67.3	66.0	63.5	57.1	49.5
160°	41.9	40.6	40.6	41.9	45.7	48.2	53.3	53.3	52.0	48.2	41.9
162.5°	31.7	30.5	30.5	31.7	34.3	35.5	39.3	40.6	40.6	38.1	33.0
165°	24.1	22.8	22.8	22.8	25.4	26.7	27.9	27.9	27.9	26.7	22.8
167.5°	15.2	14.0	14.0	15.2	16.5	16.5	17.8	17.8	16.5	16.5	14.0
170°	7.6	6.3	6.3	7.6	7.6	7.6	6.3	5.1	5.1	5.1	5.1
172.5°	2.5	1.3	3.8	3.8	2.5	0.0	0.0	1.3	1.3	1.3	0.0
175°	2.5	1.3	3.8	3.8	2.5	0.0	0.0	1.3	0.0	1.3	0.0
177.5°	1.3	1.3	3.8	3.8	2.5	0.0	0.0	0.0	0.0	1.3	0.0
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
2.5°	66.0	64.7	59.7	52.0	44.4	36.8	35.5	36.8	38.1	39.3	40.6
5°	78.7	73.6	63.5	52.0	41.9	31.7	26.7	24.1	22.8	24.1	25.4
7.5°	95.2	88.9	76.2	62.2	49.5	39.3	33.0	26.7	22.8	22.8	24.1
10°	106.6	99.0	83.8	68.5	55.9	44.4	36.8	30.5	26.7	24.1	24.1
12.5°	119.3	109.2	88.9	72.4	58.4	48.2	40.6	34.3	30.5	27.9	27.9
15°	133.3	121.9	97.7	76.2	62.2	50.8	44.4	38.1	33.0	30.5	30.5
17.5°	156.1	137.1	102.8	80.0	64.7	53.3	45.7	39.3	34.3	31.7	31.7
20°	166.3	144.7	104.1	83.8	68.5	55.9	47.0	39.3	35.5	33.0	33.0
22.5°	166.3	143.4	106.6	86.3	72.4	58.4	48.2	40.6	35.5	33.0	33.0
25°	209.4	157.4	109.2	92.7	76.2	60.9	50.8	41.9	36.8	34.3	34.3
27.5°	293.2	205.6	125.7	99.0	81.2	64.7	53.3	44.4	38.1	35.5	35.5
30°	322.4	229.7	143.4	115.5	88.9	68.5	55.9	47.0	40.6	36.8	36.8
32.5°	328.8	225.9	153.6	126.9	101.5	74.9	58.4	49.5	41.9	38.1	38.1
35°	297.0	209.4	153.6	132.0	109.2	83.8	64.7	52.0	43.2	39.3	38.1
37.5°	346.5	225.9	157.4	133.3	113.0	90.1	72.4	55.9	45.7	40.6	40.6
40°	448.1	267.8	176.4	140.9	114.2	93.9	80.0	62.2	49.5	43.2	43.2
42.5°	524.2	302.1	196.7	159.9	124.4	99.0	82.5	67.3	54.6	47.0	45.7
45°	589.0	335.1	214.5	177.7	142.2	110.4	87.6	72.4	59.7	52.0	50.8
47.5°	600.4	351.6	228.5	195.5	156.1	121.9	95.2	77.4	66.0	57.1	55.9
50°	580.1	352.9	233.6	206.9	171.4	134.5	104.1	83.8	71.1	62.2	62.2
52.5°	828.9	440.5	256.4	213.2	176.4	144.7	115.5	91.4	76.2	68.5	68.5
55°	1495.3	712.1	331.3	252.6	189.1	152.3	125.7	102.8	83.8	74.9	74.9
57.5°	2416.8	1111.9	437.9	337.6	243.7	176.4	137.1	114.2	93.9	81.2	81.2
60°	3202.5	1568.9	533.1	411.3	319.9	242.4	166.3	129.5	105.4	90.1	88.9
62.5°	3687.4	1980.1	589.0	439.2	365.6	307.2	223.4	162.5	119.3	102.8	100.3
65°	3579.5	2185.8	613.1	436.6	363.0	327.5	266.6	201.8	143.4	118.0	114.2
67.5°	3287.6	2187.0	609.3	417.6	344.0	311.0	265.3	218.3	166.3	133.3	128.2
70°	3141.6	2149.0	590.2	403.6	328.8	290.7	246.2	200.6	163.7	142.2	139.6
72.5°	3071.8	2123.6	578.8	401.1	326.2	283.1	233.6	179.0	147.2	135.8	138.4
75°	3088.3	2138.8	583.9	404.9	331.3	286.9	228.5	166.3	129.5	116.8	119.3
77.5°	3051.5	2108.4	591.5	403.6	328.8	280.5	213.2	152.3	118.0	105.4	104.1
80°	3081.9	2042.3	573.7	391.0	309.7	255.1	189.1	135.8	107.9	99.0	97.7
82.5°	2848.4	1778.3	510.3	356.7	280.5	219.6	158.7	119.3	101.5	91.4	91.4
85°	2611.0	1442.0	437.9	313.5	231.0	172.6	126.9	104.1	88.9	81.2	81.2
87.5°	1981.4	1033.2	338.9	257.7	192.9	148.5	115.5	100.3	87.6	82.5	81.2
90°	1224.9	637.2	252.6	205.6	163.7	132.0	109.2	96.5	86.3	82.5	82.5
92.5°	685.4	407.5	195.5	168.8	140.9	118.0	100.3	87.6	78.7	74.9	74.9
95°	464.6	304.6	167.6	151.0	125.7	104.1	87.6	76.2	68.5	63.5	63.5
97.5°	336.4	239.9	148.5	135.8	113.0	91.4	77.4	66.0	59.7	57.1	57.1
100°	257.7	194.2	134.5	121.9	100.3	80.0	67.3	57.1	50.8	48.2	48.2
102.5°	206.9	163.7	121.9	110.4	88.9	71.1	57.1	47.0	41.9	40.6	39.3
105°	186.6	152.3	114.2	102.8	81.2	64.7	50.8	41.9	36.8	34.3	34.3
107.5°	181.5	152.3	113.0	100.3	77.4	60.9	45.7	38.1	33.0	30.5	30.5
110°	192.9	161.2	114.2	97.7	72.4	55.9	41.9	34.3	29.2	27.9	27.9



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CATALOG NUMBER: ARC-CA6-130-740-U-33-X-5-X-GHSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	199.3	162.5	109.2	91.4	67.3	50.8	39.3	31.7	27.9	25.4	25.4
115°	182.8	146.0	100.3	81.2	59.7	45.7	36.8	30.5	25.4	22.8	22.8
117.5°	176.4	137.1	97.7	71.1	54.6	41.9	34.3	27.9	24.1	21.6	21.6
120°	176.4	133.3	86.3	62.2	49.5	38.1	31.7	25.4	21.6	20.3	20.3
122.5°	170.1	123.1	76.2	54.6	43.2	33.0	27.9	22.8	20.3	17.8	17.8
125°	154.9	114.2	62.2	49.5	39.3	30.5	25.4	21.6	17.8	16.5	16.5
127.5°	146.0	113.0	58.4	45.7	35.5	27.9	22.8	19.0	15.2	14.0	14.0
130°	144.7	113.0	54.6	40.6	31.7	24.1	20.3	16.5	14.0	12.7	12.7
132.5°	129.5	102.8	52.0	38.1	29.2	22.8	19.0	15.2	12.7	11.4	11.4
135°	116.8	95.2	50.8	35.5	26.7	20.3	16.5	14.0	10.2	10.2	10.2
137.5°	107.9	87.6	50.8	33.0	24.1	17.8	15.2	12.7	8.9	8.9	8.9
140°	101.5	81.2	49.5	31.7	21.6	16.5	14.0	10.2	7.6	7.6	7.6
142.5°	95.2	76.2	45.7	30.5	20.3	14.0	12.7	10.2	7.6	6.3	6.3
145°	87.6	69.8	40.6	27.9	19.0	12.7	11.4	8.9	6.3	5.1	5.1
147.5°	80.0	62.2	35.5	24.1	17.8	11.4	10.2	7.6	5.1	5.1	5.1
150°	68.5	53.3	31.7	21.6	15.2	10.2	8.9	6.3	5.1	3.8	3.8
152.5°	55.9	45.7	27.9	19.0	14.0	8.9	7.6	5.1	3.8	2.5	2.5
155°	49.5	40.6	25.4	16.5	11.4	7.6	6.3	3.8	3.8	2.5	2.5
157.5°	43.2	35.5	22.8	14.0	8.9	5.1	5.1	3.8	2.5	2.5	1.3
160°	35.5	30.5	19.0	11.4	7.6	3.8	3.8	2.5	2.5	1.3	1.3
162.5°	27.9	22.8	14.0	8.9	5.1	2.5	2.5	2.5	2.5	1.3	0.0
165°	19.0	16.5	10.2	6.3	3.8	1.3	1.3	2.5	1.3	1.3	0.0
167.5°	12.7	10.2	6.3	3.8	2.5	0.0	1.3	1.3	1.3	1.3	0.0
170°	5.1	5.1	3.8	2.5	0.0	0.0	0.0	1.3	1.3	1.3	0.0
172.5°	1.3	1.3	1.3	0.0	0.0	0.0	0.0	1.3	1.3	1.3	0.0
175°	1.3	1.3	1.3	1.3	0.0	0.0	0.0	1.3	1.3	1.3	0.0
177.5°	1.3	1.3	1.3	1.3	0.0	0.0	1.3	1.3	1.3	1.3	0.0
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3

(END OF REPORT)