

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: P588616

Luminaire Tested: **ARC-CA6-80-730-U-33-X-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588616
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-CA6-80-730-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: 5570 lumens
Efficiency: N/A
Efficacy: 131.7 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

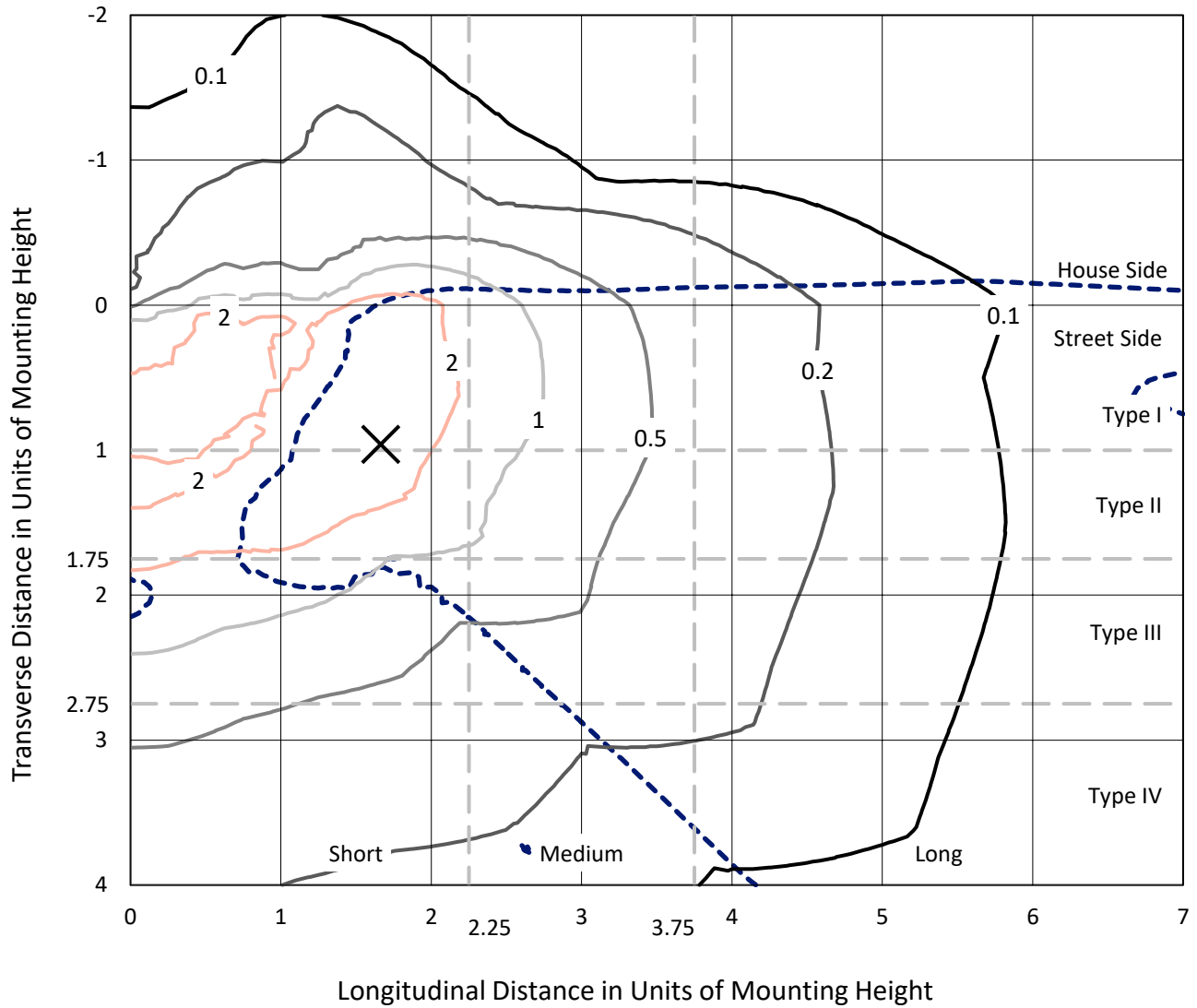
Input Watts (W): 42.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

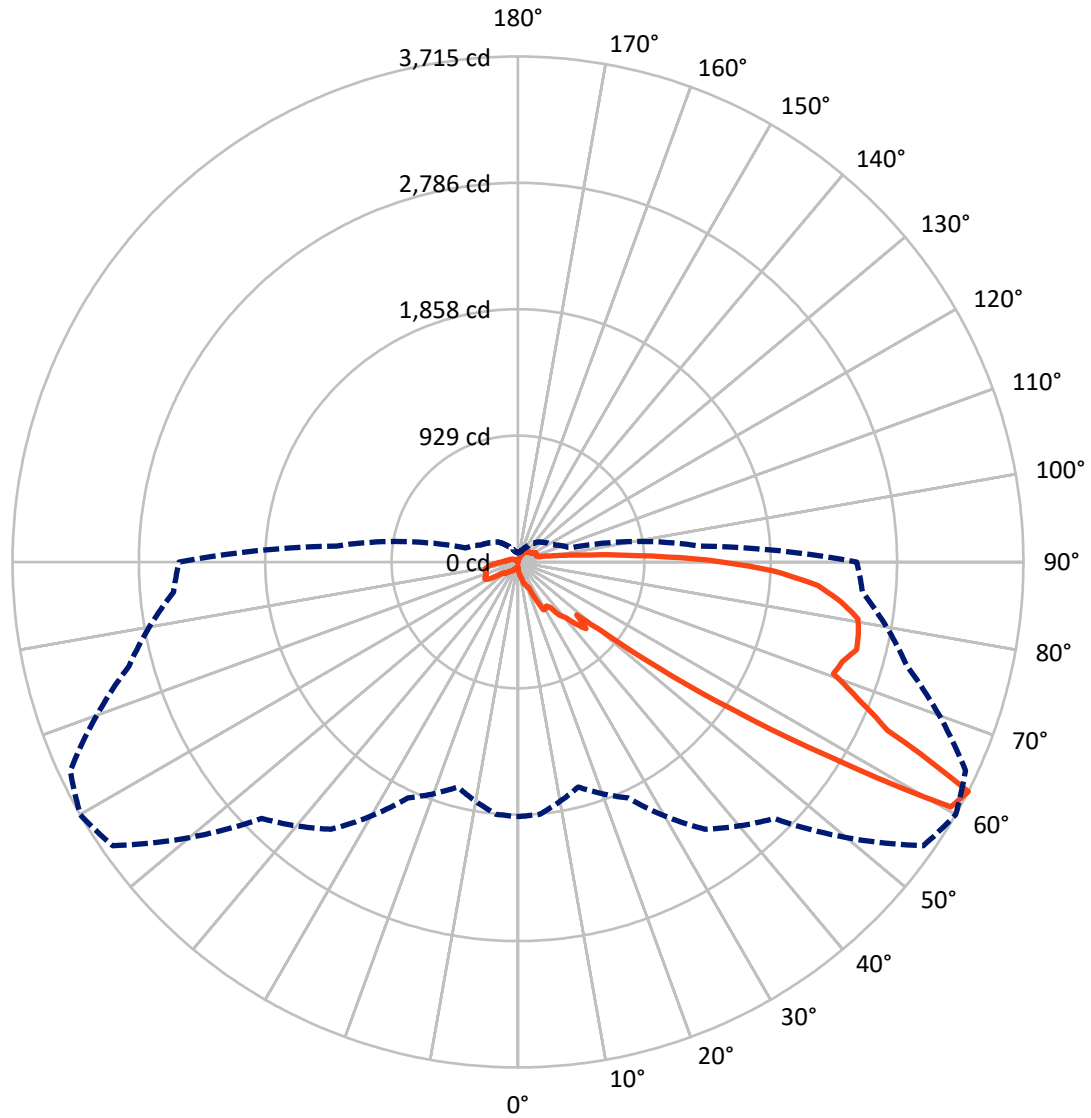
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 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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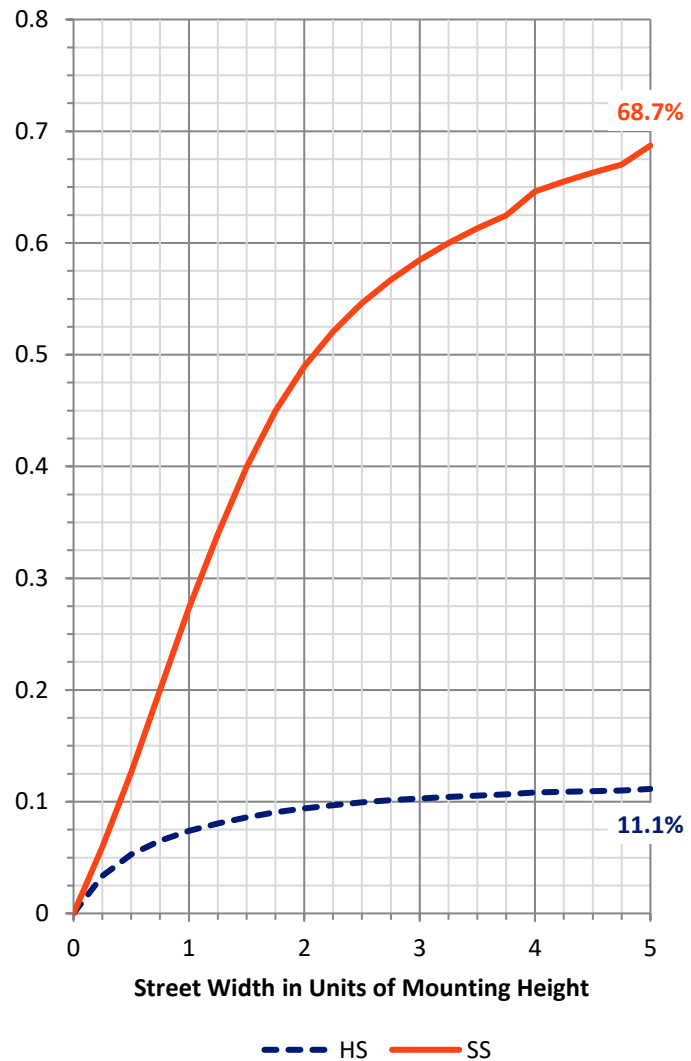
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	653.4	130.3	783.7
	% Fixture	11.7	2.3	14.1
Street Side	Lumens	4254.7	531.6	4786.3
	% Fixture	76.4	9.5	85.9
Total	Lumens	4908.1	661.9	5570.0
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.1
10°-20°	26.8	0.5
20°-30°	79.6	1.4
30°-40°	160.0	2.9
40°-50°	281.7	5.1
50°-60°	777.6	14.0
60°-70°	1344.5	24.1
70°-80°	1248.0	22.4
80°-90°	984.1	17.7
90°-100°	312.2	5.6
100°-110°	111.4	2.0
110°-120°	91.5	1.6
120°-130°	60.2	1.1
130°-140°	42.9	0.8
140°-150°	27.7	0.5
150°-160°	12.7	0.2
160°-170°	3.1	0.1
170°-180°	0.1	0.0
0°-90°	4908.1	88.1
0°-180°	5570.0	100.0



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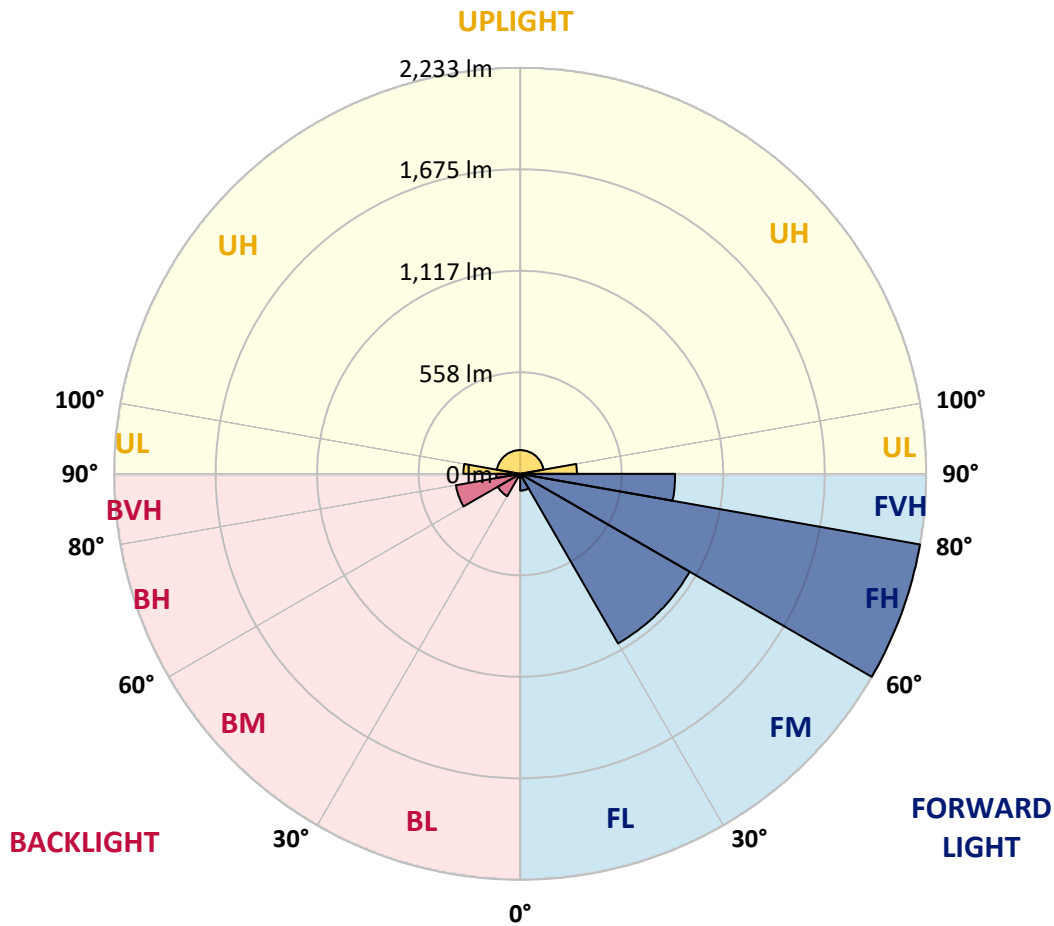
CATALOG NUMBER: ARC-CA6-80-730-U-33-X-5-X-GHSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	92.5	1.7			
FM (30°-60°)	1077.0	19.3			
FH (60°-80°)	2233.1	40.1			G2/5000
FVH (80°-90°)	852.1	15.3			G5
BL (0°-30°)	19.8	0.4	B0/110		
BM (30°-60°)	142.3	2.6	B0/220		
BH (60°-80°)	359.4	6.5	B1/500		G1/500
BVH (80°-90°)	132.0	2.4			G2/225
UL (90°-100°)	312.2	5.6		U3/500	
UH (100°-180°)	130.3	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°	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
2.5°	66.0	64.3	65.1	65.1	66.0	62.6	59.1	56.6	54.0	50.6	46.3
5°	94.3	92.6	90.0	89.1	87.4	84.0	78.9	77.1	72.0	65.1	56.6
7.5°	114.9	114.0	113.1	110.6	108.9	103.7	97.7	95.1	89.1	79.7	69.4
10°	130.3	130.3	131.2	126.9	119.2	114.9	109.7	108.0	103.7	90.9	78.0
12.5°	143.2	141.4	134.6	131.2	127.7	128.6	129.4	128.6	126.9	105.4	87.4
15°	155.2	153.4	148.3	144.0	141.4	150.0	168.9	167.2	166.3	132.9	102.0
17.5°	163.7	163.7	168.9	172.3	176.6	163.7	160.3	165.4	171.4	146.6	115.7
20°	188.6	185.2	180.9	177.4	198.9	189.4	192.9	198.9	203.2	163.7	126.9
22.5°	177.4	178.3	197.2	204.0	193.7	188.6	200.6	203.2	204.0	187.7	132.0
25°	242.6	231.4	224.6	246.0	244.3	282.0	293.2	300.9	300.9	254.6	184.3
27.5°	335.2	335.2	364.3	420.9	411.5	412.3	399.5	398.6	414.9	430.3	280.3
30°	363.5	372.9	454.3	482.6	513.5	474.9	432.9	400.3	407.2	490.3	326.6
32.5°	372.0	380.6	479.2	448.3	459.5	444.0	450.0	384.0	367.7	451.7	318.0
35°	324.9	336.9	417.5	378.0	356.6	402.9	458.6	411.5	403.7	371.2	288.0
37.5°	433.7	439.7	468.0	462.0	468.9	471.5	538.3	495.5	504.0	448.3	364.3
40°	498.0	491.2	601.8	628.3	618.0	608.6	602.6	536.6	546.9	519.5	492.9
42.5°	612.0	604.3	682.3	698.6	701.2	676.3	704.6	621.5	595.8	539.2	613.8
45°	619.8	624.0	697.8	655.8	699.5	744.9	796.3	700.3	654.0	558.9	713.2
47.5°	548.6	567.5	729.5	692.6	649.8	609.5	629.2	580.3	542.6	442.3	685.8
50°	559.7	567.5	671.2	627.5	522.0	646.3	819.5	784.3	743.2	548.6	660.9
52.5°	792.0	788.6	834.1	836.6	863.2	970.3	1312.4	1284.1	1290.9	1068.1	984.1
55°	1086.1	1084.4	1199.2	1382.7	1534.4	1586.7	2033.3	1921.8	1871.3	1655.2	1737.5
57.5°	1404.1	1418.7	1469.2	1726.4	1986.1	2053.8	2753.3	2695.9	2584.4	2159.3	2378.7
60°	1739.2	1730.7	1656.1	1825.0	2240.7	2578.4	3627.7	3655.1	3433.1	2718.2	2596.4
62.5°	1871.3	1860.1	1711.8	1913.3	2397.6	2665.9	3636.2	3715.1	3630.2	2959.9	2541.6
65°	1849.0	1823.3	1626.1	1784.7	2023.8	2268.1	3246.2	2984.8	3123.6	3026.8	2402.7
67.5°	1761.5	1755.5	1572.1	1659.5	1815.5	1847.3	2965.0	2701.0	2750.7	3086.8	2443.9
70°	1651.8	1650.1	1511.2	1577.2	1799.3	1766.7	2744.7	2461.0	2431.9	2762.7	2454.2
72.5°	1655.2	1653.5	1500.1	1522.4	1760.7	1707.5	2721.6	2495.3	2442.1	2603.3	2335.9
75°	1683.5	1685.2	1522.4	1547.2	1814.7	1719.5	2776.5	2571.6	2517.6	2587.9	2241.6
77.5°	1656.1	1669.8	1509.5	1565.2	1849.0	1717.8	2750.7	2557.0	2480.7	2461.0	2061.6
80°	1564.4	1583.2	1439.2	1503.5	1818.1	1741.0	2729.3	2534.7	2437.9	2329.9	1932.1
82.5°	1372.4	1392.1	1281.5	1340.7	1691.2	1645.8	2579.3	2390.7	2304.1	2115.6	1763.3
85°	1179.5	1224.9	1170.9	1179.5	1493.2	1506.9	2377.0	2210.7	2150.7	1986.1	1705.8
87.5°	973.8	1013.2	962.6	901.8	1118.6	1197.5	1965.5	1883.3	1867.0	1753.0	1480.4
90°	720.9	756.9	726.9	647.2	757.8	807.5	1448.7	1403.2	1438.4	1308.1	1017.5
92.5°	522.9	528.9	493.7	427.7	504.9	528.9	949.8	880.3	921.5	801.5	596.6
95°	349.7	364.3	336.9	308.6	366.0	368.6	585.5	534.0	511.7	460.3	356.6
97.5°	256.3	257.2	246.9	221.2	257.2	260.6	389.2	350.6	330.9	309.4	246.9
100°	203.2	203.2	187.7	171.4	179.2	186.0	270.9	244.3	234.0	224.6	186.0
102.5°	177.4	176.6	163.7	147.4	146.6	150.0	204.9	186.9	179.2	173.2	146.6
105°	168.0	167.2	154.3	137.2	132.9	130.3	170.6	158.6	153.4	148.3	132.0
107.5°	166.3	164.6	151.7	136.3	129.4	122.6	153.4	143.2	144.0	138.9	126.9
110°	168.0	168.0	156.9	147.4	136.3	126.9	154.3	143.2	146.6	144.9	132.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	163.7	168.0	163.7	157.7	145.7	138.0	161.2	148.3	152.6	152.6	136.3
115°	154.3	158.6	158.6	152.6	141.4	138.9	159.4	148.3	150.0	147.4	126.9
117.5°	141.4	144.0	142.3	135.4	126.0	124.3	148.3	143.2	143.2	135.4	118.3
120°	132.0	126.9	120.0	114.9	109.7	114.0	133.7	128.6	124.3	120.9	108.0
122.5°	118.3	112.3	104.6	102.0	98.6	104.6	121.7	117.4	113.1	111.4	102.0
125°	97.7	97.7	94.3	92.6	91.7	100.3	120.0	115.7	109.7	106.3	95.1
127.5°	94.3	94.3	91.7	90.0	90.9	101.1	117.4	113.1	106.3	102.0	91.7
130°	95.1	93.4	90.0	87.4	88.3	100.3	116.6	111.4	104.6	101.1	91.7
132.5°	90.0	88.3	85.7	84.0	83.1	95.1	110.6	108.0	102.9	95.1	84.9
135°	87.4	85.7	84.0	83.1	83.1	92.6	105.4	102.9	97.7	89.1	78.0
137.5°	86.6	84.9	81.4	80.6	79.7	88.3	98.6	96.9	91.7	84.0	74.6
140°	82.3	79.7	77.1	76.3	76.3	83.1	93.4	91.7	86.6	80.6	72.0
142.5°	76.3	74.6	72.0	72.0	72.9	79.7	90.9	90.0	84.0	77.1	69.4
145°	72.9	71.1	69.4	70.3	71.1	77.1	85.7	84.9	80.6	74.6	66.9
147.5°	66.9	66.0	64.3	63.4	65.1	70.3	79.7	79.7	77.1	69.4	61.7
150°	58.3	57.4	55.7	54.9	56.6	61.7	69.4	69.4	66.9	59.1	52.3
152.5°	48.9	48.0	48.0	48.9	50.6	53.1	60.0	60.9	58.3	50.6	44.6
155°	42.9	42.0	42.0	42.9	45.4	48.0	52.3	52.3	49.7	44.6	38.6
157.5°	36.9	36.0	36.0	36.9	39.4	41.1	45.4	44.6	42.9	38.6	33.4
160°	28.3	27.4	27.4	28.3	30.9	32.6	36.0	36.0	35.1	32.6	28.3
162.5°	21.4	20.6	20.6	21.4	23.1	24.0	26.6	27.4	27.4	25.7	22.3
165°	16.3	15.4	15.4	15.4	17.1	18.0	18.9	18.9	18.9	18.0	15.4
167.5°	10.3	9.4	9.4	10.3	11.1	11.1	12.0	12.0	11.1	11.1	9.4
170°	5.1	4.3	4.3	5.1	5.1	5.1	4.3	3.4	3.4	3.4	3.4
172.5°	1.7	0.9	2.6	2.6	1.7	0.0	0.0	0.9	0.9	0.9	0.0
175°	1.7	0.9	2.6	2.6	1.7	0.0	0.0	0.9	0.0	0.9	0.0
177.5°	0.9	0.9	2.6	2.6	1.7	0.0	0.0	0.0	0.0	0.9	0.0
180°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
2.5°	44.6	43.7	40.3	35.1	30.0	24.9	24.0	24.9	25.7	26.6	27.4
5°	53.1	49.7	42.9	35.1	28.3	21.4	18.0	16.3	15.4	16.3	17.1
7.5°	64.3	60.0	51.4	42.0	33.4	26.6	22.3	18.0	15.4	15.4	16.3
10°	72.0	66.9	56.6	46.3	37.7	30.0	24.9	20.6	18.0	16.3	16.3
12.5°	80.6	73.7	60.0	48.9	39.4	32.6	27.4	23.1	20.6	18.9	18.9
15°	90.0	82.3	66.0	51.4	42.0	34.3	30.0	25.7	22.3	20.6	20.6
17.5°	105.4	92.6	69.4	54.0	43.7	36.0	30.9	26.6	23.1	21.4	21.4
20°	112.3	97.7	70.3	56.6	46.3	37.7	31.7	26.6	24.0	22.3	22.3
22.5°	112.3	96.9	72.0	58.3	48.9	39.4	32.6	27.4	24.0	22.3	22.3
25°	141.4	106.3	73.7	62.6	51.4	41.1	34.3	28.3	24.9	23.1	23.1
27.5°	198.0	138.9	84.9	66.9	54.9	43.7	36.0	30.0	25.7	24.0	24.0
30°	217.7	155.2	96.9	78.0	60.0	46.3	37.7	31.7	27.4	24.9	24.9
32.5°	222.0	152.6	103.7	85.7	68.6	50.6	39.4	33.4	28.3	25.7	25.7
35°	200.6	141.4	103.7	89.1	73.7	56.6	43.7	35.1	29.1	26.6	25.7
37.5°	234.0	152.6	106.3	90.0	76.3	60.9	48.9	37.7	30.9	27.4	27.4
40°	302.6	180.9	119.2	95.1	77.1	63.4	54.0	42.0	33.4	29.1	29.1
42.5°	354.0	204.0	132.9	108.0	84.0	66.9	55.7	45.4	36.9	31.7	30.9
45°	397.7	226.3	144.9	120.0	96.0	74.6	59.1	48.9	40.3	35.1	34.3
47.5°	405.5	237.4	154.3	132.0	105.4	82.3	64.3	52.3	44.6	38.6	37.7
50°	391.7	238.3	157.7	139.7	115.7	90.9	70.3	56.6	48.0	42.0	42.0
52.5°	559.7	297.4	173.2	144.0	119.2	97.7	78.0	61.7	51.4	46.3	46.3
55°	1009.8	480.9	223.7	170.6	127.7	102.9	84.9	69.4	56.6	50.6	50.6
57.5°	1632.1	750.9	295.7	228.0	164.6	119.2	92.6	77.1	63.4	54.9	54.9
60°	2162.7	1059.5	360.0	277.7	216.0	163.7	112.3	87.4	71.1	60.9	60.0
62.5°	2490.2	1337.2	397.7	296.6	246.9	207.4	150.9	109.7	80.6	69.4	67.7
65°	2417.3	1476.1	414.0	294.9	245.2	221.2	180.0	136.3	96.9	79.7	77.1
67.5°	2220.1	1476.9	411.5	282.0	232.3	210.0	179.2	147.4	112.3	90.0	86.6
70°	2121.6	1451.2	398.6	272.6	222.0	196.3	166.3	135.4	110.6	96.0	94.3
72.5°	2074.4	1434.1	390.9	270.9	220.3	191.2	157.7	120.9	99.4	91.7	93.4
75°	2085.6	1444.4	394.3	273.4	223.7	193.7	154.3	112.3	87.4	78.9	80.6
77.5°	2060.7	1423.8	399.5	272.6	222.0	189.4	144.0	102.9	79.7	71.1	70.3
80°	2081.3	1379.2	387.5	264.0	209.2	172.3	127.7	91.7	72.9	66.9	66.0
82.5°	1923.5	1200.9	344.6	240.9	189.4	148.3	107.1	80.6	68.6	61.7	61.7
85°	1763.3	973.8	295.7	211.7	156.0	116.6	85.7	70.3	60.0	54.9	54.9
87.5°	1338.1	697.8	228.9	174.0	130.3	100.3	78.0	67.7	59.1	55.7	54.9
90°	827.2	430.3	170.6	138.9	110.6	89.1	73.7	65.1	58.3	55.7	55.7
92.5°	462.9	275.2	132.0	114.0	95.1	79.7	67.7	59.1	53.1	50.6	50.6
95°	313.7	205.7	113.1	102.0	84.9	70.3	59.1	51.4	46.3	42.9	42.9
97.5°	227.2	162.0	100.3	91.7	76.3	61.7	52.3	44.6	40.3	38.6	38.6
100°	174.0	131.2	90.9	82.3	67.7	54.0	45.4	38.6	34.3	32.6	32.6
102.5°	139.7	110.6	82.3	74.6	60.0	48.0	38.6	31.7	28.3	27.4	26.6
105°	126.0	102.9	77.1	69.4	54.9	43.7	34.3	28.3	24.9	23.1	23.1
107.5°	122.6	102.9	76.3	67.7	52.3	41.1	30.9	25.7	22.3	20.6	20.6
110°	130.3	108.9	77.1	66.0	48.9	37.7	28.3	23.1	19.7	18.9	18.9



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CATALOG NUMBER: ARC-CA6-80-730-U-33-X-5-X-GHSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	134.6	109.7	73.7	61.7	45.4	34.3	26.6	21.4	18.9	17.1	17.1
115°	123.4	98.6	67.7	54.9	40.3	30.9	24.9	20.6	17.1	15.4	15.4
117.5°	119.2	92.6	66.0	48.0	36.9	28.3	23.1	18.9	16.3	14.6	14.6
120°	119.2	90.0	58.3	42.0	33.4	25.7	21.4	17.1	14.6	13.7	13.7
122.5°	114.9	83.1	51.4	36.9	29.1	22.3	18.9	15.4	13.7	12.0	12.0
125°	104.6	77.1	42.0	33.4	26.6	20.6	17.1	14.6	12.0	11.1	11.1
127.5°	98.6	76.3	39.4	30.9	24.0	18.9	15.4	12.9	10.3	9.4	9.4
130°	97.7	76.3	36.9	27.4	21.4	16.3	13.7	11.1	9.4	8.6	8.6
132.5°	87.4	69.4	35.1	25.7	19.7	15.4	12.9	10.3	8.6	7.7	7.7
135°	78.9	64.3	34.3	24.0	18.0	13.7	11.1	9.4	6.9	6.9	6.9
137.5°	72.9	59.1	34.3	22.3	16.3	12.0	10.3	8.6	6.0	6.0	6.0
140°	68.6	54.9	33.4	21.4	14.6	11.1	9.4	6.9	5.1	5.1	5.1
142.5°	64.3	51.4	30.9	20.6	13.7	9.4	8.6	6.9	5.1	4.3	4.3
145°	59.1	47.1	27.4	18.9	12.9	8.6	7.7	6.0	4.3	3.4	3.4
147.5°	54.0	42.0	24.0	16.3	12.0	7.7	6.9	5.1	3.4	3.4	3.4
150°	46.3	36.0	21.4	14.6	10.3	6.9	6.0	4.3	3.4	2.6	2.6
152.5°	37.7	30.9	18.9	12.9	9.4	6.0	5.1	3.4	2.6	1.7	1.7
155°	33.4	27.4	17.1	11.1	7.7	5.1	4.3	2.6	2.6	1.7	1.7
157.5°	29.1	24.0	15.4	9.4	6.0	3.4	3.4	2.6	1.7	1.7	0.9
160°	24.0	20.6	12.9	7.7	5.1	2.6	2.6	1.7	1.7	0.9	0.9
162.5°	18.9	15.4	9.4	6.0	3.4	1.7	1.7	1.7	1.7	0.9	0.0
165°	12.9	11.1	6.9	4.3	2.6	0.9	0.9	1.7	0.9	0.9	0.0
167.5°	8.6	6.9	4.3	2.6	1.7	0.0	0.9	0.9	0.9	0.9	0.0
170°	3.4	3.4	2.6	1.7	0.0	0.0	0.0	0.9	0.9	0.9	0.0
172.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.0
175°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	0.9	0.0
177.5°	0.9	0.9	0.9	0.9	0.0	0.0	0.9	0.9	0.9	0.9	0.0
180°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9

(END OF REPORT)