

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: P588507

Luminaire Tested: **ARC-CA6-70-750-U-33-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC-CA6-70-750-U-33-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7146 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U3 - G3

Input Watts (W): 73.9
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

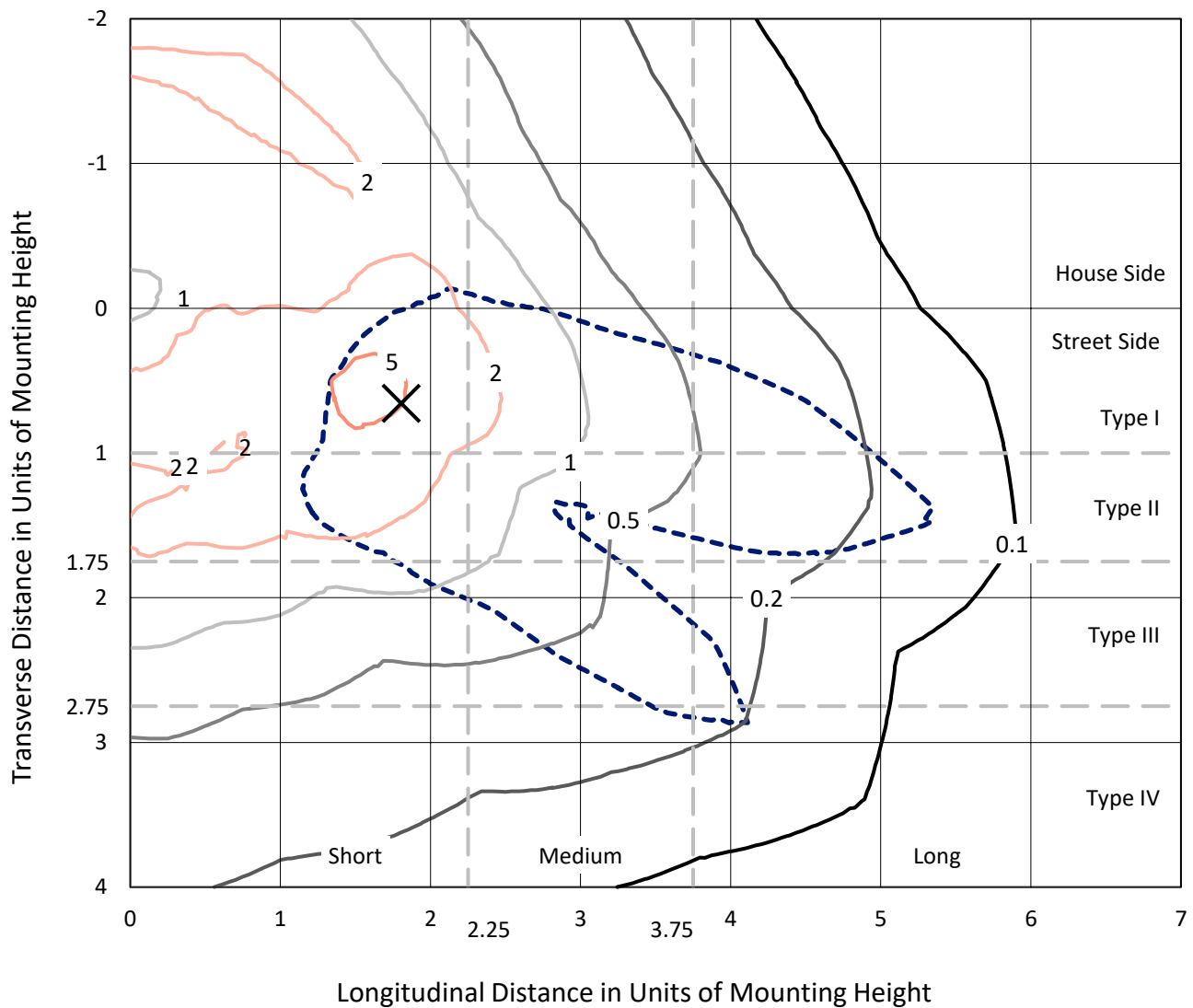


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

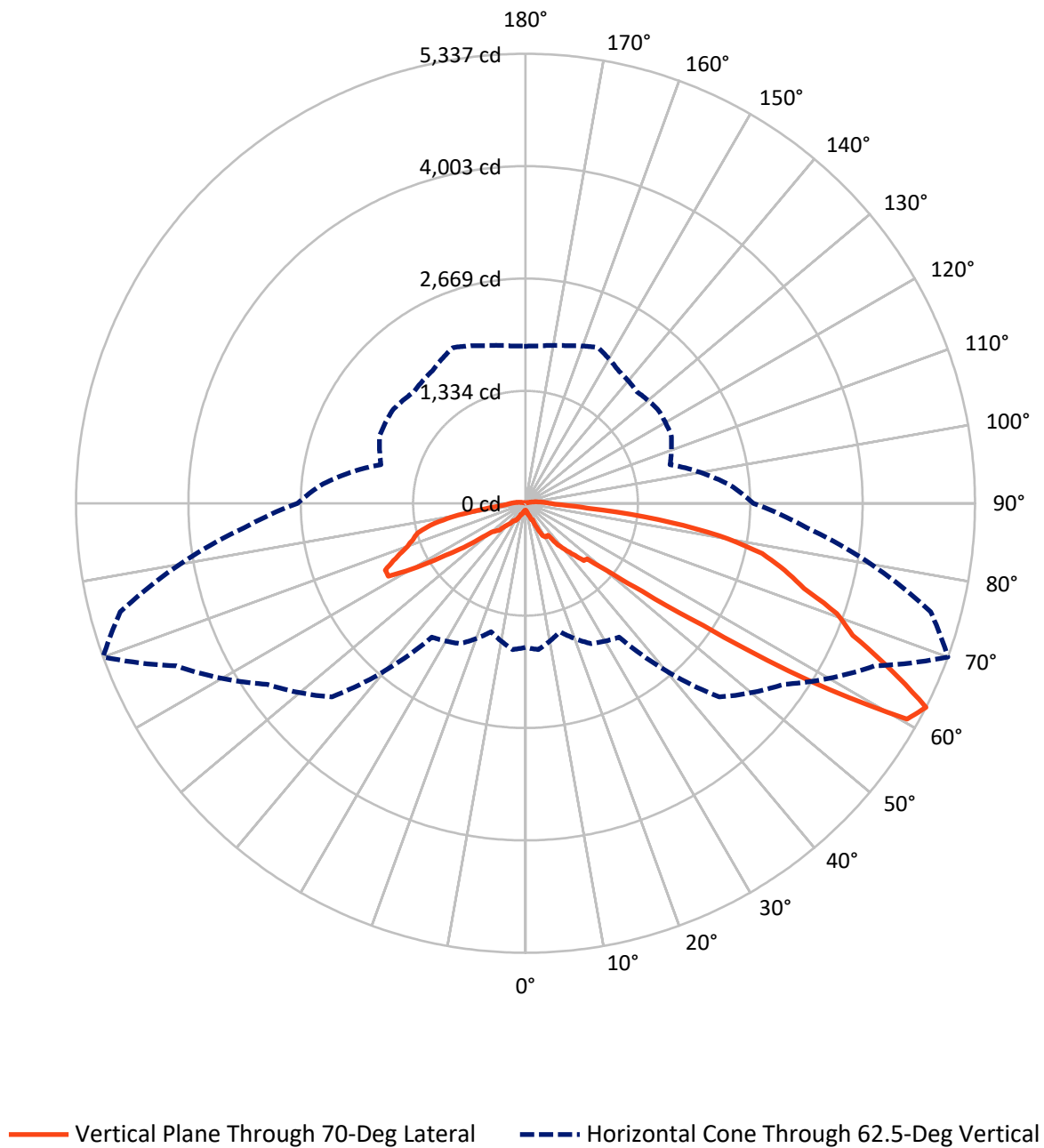


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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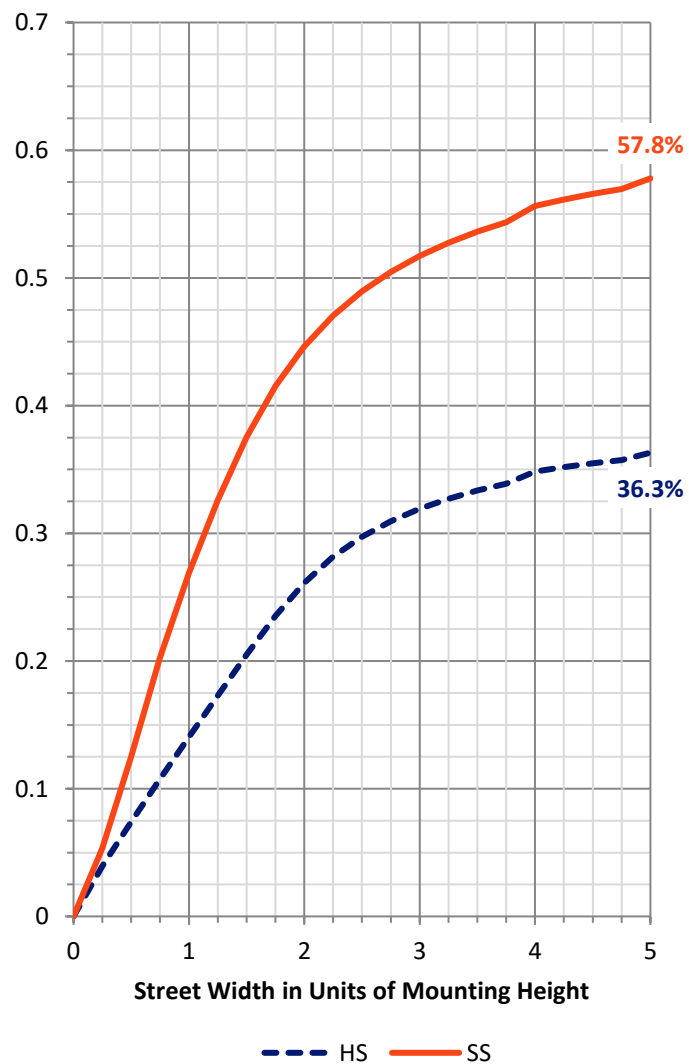
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2648.5	97.1	2745.6
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	4267.0	133.4	4400.4
	% Fixture	59.7	1.9	61.6
Total	Lumens	6915.5	230.5	7146.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	0.1
10°-20°	38.9	0.5
20°-30°	120.5	1.7
30°-40°	258.5	3.6
40°-50°	484.4	6.8
50°-60°	1256.9	17.6
60°-70°	2302.4	32.2
70°-80°	1846.8	25.8
80°-90°	598.0	8.4
90°-100°	157.6	2.2
100°-110°	51.3	0.7
110°-120°	20.1	0.3
120°-130°	1.6	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6915.5	96.8
0°-180°	7146.0	100.0

Coefficient of Utilization



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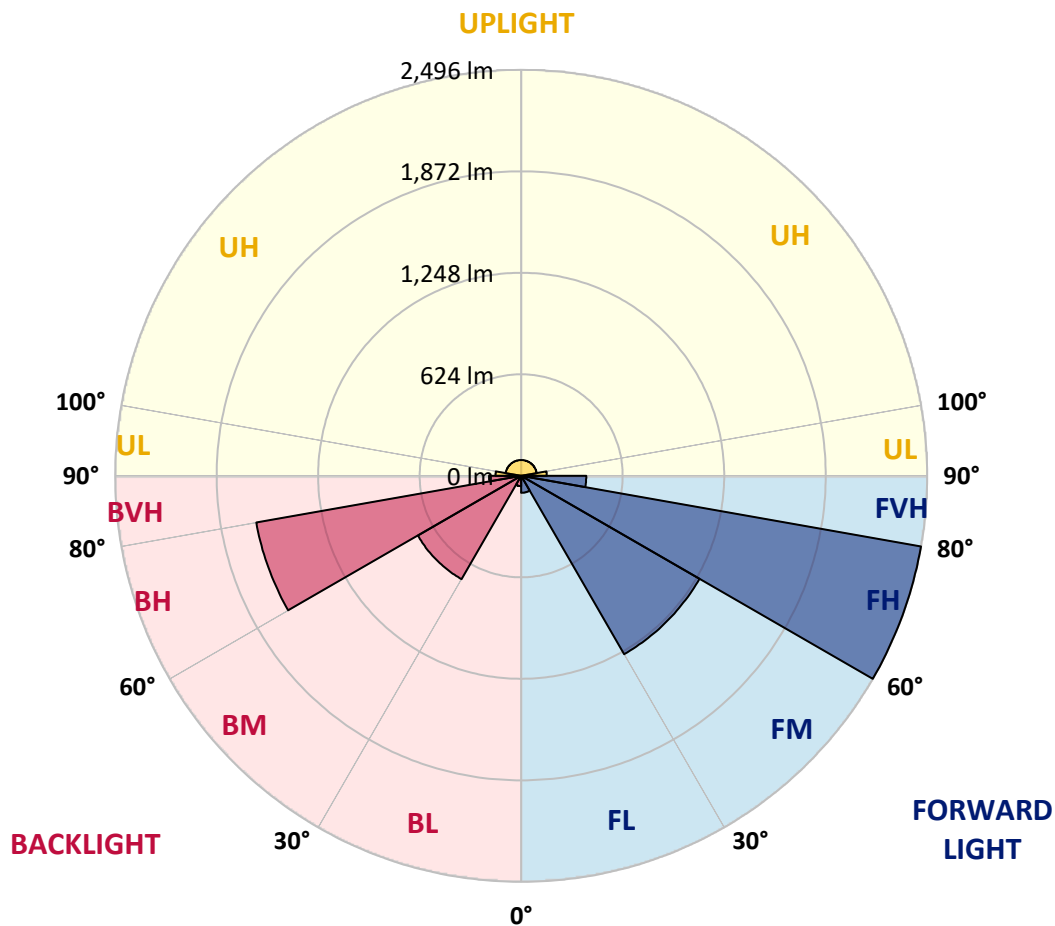
CATALOG NUMBER: ARC-CA6-70-750-U-33-6-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	104.8	1.5			
FM	(30°-60°)	1266.2	17.7			
FH	(60°-80°)	2495.9	34.9			G2/5000
FVH	(80°-90°)	400.1	5.6			G3/500
BL	(0°-30°)	63.6	0.9	B0/110		
BM	(30°-60°)	733.6	10.3	B1/1000		
BH	(60°-80°)	1653.3	23.1	B3/2500		G3/2500
BVH	(80°-90°)	197.9	2.8			G2/225
UL	(90°-100°)	157.6	2.2		U3/500	
UH	(100°-180°)	97.1	1.4		U3/500	

BUG Rating: B3-U3-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
2.5°	91.5	91.5	91.5	90.2	88.8	87.4	86.1	86.1	84.7	83.3	82.0
5°	99.7	98.4	97.0	94.3	92.9	92.9	91.5	91.5	91.5	90.2	88.8
7.5°	110.7	110.7	109.3	107.9	106.6	105.2	103.8	102.5	102.5	101.1	99.7
10°	125.7	125.7	125.7	124.3	124.3	122.9	120.2	118.8	116.1	114.8	110.7
12.5°	140.7	142.1	139.3	139.3	139.3	138.0	135.2	133.9	131.1	128.4	122.9
15°	155.7	154.4	153.0	151.6	154.4	154.4	153.0	153.0	147.5	143.4	133.9
17.5°	169.4	169.4	170.8	170.8	174.9	173.5	173.5	172.1	169.4	162.6	150.3
20°	191.3	192.6	192.6	192.6	206.3	211.7	213.1	214.5	210.4	196.7	172.1
22.5°	213.1	214.5	224.0	221.3	221.3	221.3	235.0	228.1	210.4	194.0	180.3
25°	288.2	292.3	295.1	304.6	315.6	345.6	393.4	378.4	351.1	295.1	248.6
27.5°	360.6	366.1	415.3	483.6	493.2	457.6	491.8	446.7	433.0	375.7	337.4
30°	393.4	403.0	487.7	534.1	550.5	504.1	553.3	467.2	463.1	422.1	389.3
32.5°	401.6	408.5	501.4	506.8	510.9	505.5	579.2	474.0	464.5	423.5	375.7
35°	389.3	397.5	460.4	429.0	430.3	527.3	665.3	510.9	467.2	396.2	342.9
37.5°	479.5	479.5	532.8	541.0	576.5	694.0	871.6	674.8	625.7	516.4	450.8
40°	546.4	553.3	638.0	669.4	674.8	774.6	1091.5	791.0	721.3	577.9	527.3
42.5°	636.6	635.2	713.1	735.0	750.0	786.9	1116.1	909.8	827.8	654.4	616.1
45°	651.6	673.5	744.5	719.9	739.1	833.3	1165.3	1077.8	968.6	799.2	719.9
47.5°	591.5	621.6	765.0	744.5	668.0	711.7	934.4	1106.5	986.3	821.0	765.0
50°	638.0	654.4	725.4	711.7	609.3	756.8	1025.9	1386.6	1252.7	976.8	833.3
52.5°	825.1	860.6	872.9	926.2	877.0	1132.5	1435.8	1756.8	1739.0	1413.9	1099.7
55°	1060.1	1112.0	1166.6	1368.8	1397.5	1778.6	2004.1	2346.9	2560.0	2236.3	1687.1
57.5°	1314.2	1387.9	1370.2	1663.9	1709.0	2409.8	2617.4	3420.7	3990.3	3550.5	2471.3
60°	1560.1	1609.3	1509.5	1767.7	1853.8	3034.1	3338.7	4454.8	5204.8	4736.2	3043.6
62.5°	1711.7	1743.1	1579.2	1838.8	1939.8	3251.3	3747.2	4570.9	5337.3	4980.8	3353.7
65°	1710.3	1702.1	1515.0	1740.4	1726.7	3001.3	3621.5	3841.4	4767.6	4707.5	3393.4
67.5°	1643.4	1646.1	1449.4	1628.4	1572.4	2646.1	3355.1	3249.9	4191.2	4271.8	3300.5
70°	1579.2	1612.0	1424.8	1580.6	1554.6	2545.0	3239.0	2924.8	3920.7	4073.7	3202.1
72.5°	1489.0	1520.5	1344.2	1480.8	1490.4	2342.8	3040.9	2553.2	3457.6	3642.0	2870.2
75°	1487.7	1527.3	1362.0	1482.2	1497.2	2228.1	3065.5	2424.8	3180.3	3427.5	2678.9
77.5°	1403.0	1438.5	1285.5	1397.5	1439.9	2016.3	2924.8	2265.0	2872.9	3150.2	2428.9
80°	1127.0	1174.8	1049.2	1122.9	1146.1	1512.3	2345.6	1855.1	2337.4	2614.7	1984.9
82.5°	770.5	814.2	730.9	785.5	815.6	991.8	1621.5	1336.0	1588.8	1758.2	1243.1
85°	445.3	497.3	448.1	441.2	456.3	523.2	872.9	710.4	739.1	777.3	551.9
87.5°	280.0	288.2	263.7	265.0	267.8	286.9	397.5	316.9	349.7	396.2	334.7
90°	222.7	230.9	213.1	214.5	210.4	228.1	297.8	241.8	269.1	310.1	265.0
92.5°	192.6	198.1	185.8	188.5	185.8	199.4	248.6	199.4	221.3	254.1	217.2
95°	163.9	168.0	161.2	162.6	154.4	162.6	194.0	151.6	168.0	191.3	162.6
97.5°	131.1	135.2	131.1	131.1	122.9	127.0	148.9	117.5	128.4	143.4	122.9
100°	103.8	105.2	103.8	102.5	95.6	95.6	103.8	84.7	88.8	98.4	84.7
102.5°	79.2	80.6	79.2	77.9	69.7	65.6	65.6	54.6	57.4	60.1	53.3
105°	62.8	64.2	62.8	60.1	53.3	49.2	47.8	39.6	39.6	41.0	36.9
107.5°	51.9	51.9	51.9	49.2	45.1	39.6	35.5	28.7	28.7	30.1	28.7
110°	42.3	42.3	41.0	39.6	35.5	31.4	27.3	23.2	23.2	23.2	21.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	35.5	35.5	34.2	32.8	28.7	24.6	21.9	19.1	19.1	19.1	17.8
115°	30.1	30.1	28.7	27.3	24.6	20.5	17.8	15.0	15.0	15.0	15.0
117.5°	26.0	26.0	24.6	23.2	20.5	17.8	15.0	12.3	12.3	12.3	12.3
120°	23.2	21.9	20.5	19.1	16.4	15.0	12.3	10.9	10.9	10.9	9.6
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
2.5°	82.0	82.0	80.6	80.6	80.6	79.2	79.2	80.6	80.6	80.6	80.6
5°	87.4	86.1	83.3	80.6	79.2	77.9	76.5	76.5	79.2	79.2	79.2
7.5°	98.4	97.0	92.9	90.2	87.4	84.7	83.3	82.0	83.3	84.7	84.7
10°	109.3	107.9	102.5	98.4	97.0	94.3	92.9	91.5	92.9	92.9	92.9
12.5°	120.2	117.5	113.4	107.9	105.2	103.8	102.5	101.1	101.1	101.1	101.1
15°	129.8	125.7	121.6	117.5	114.8	112.0	110.7	109.3	110.7	112.0	112.0
17.5°	144.8	140.7	131.1	124.3	122.9	120.2	118.8	118.8	120.2	121.6	121.6
20°	161.2	153.0	142.1	135.2	133.9	129.8	128.4	128.4	129.8	131.1	131.1
22.5°	174.9	169.4	153.0	143.4	142.1	140.7	142.1	142.1	143.4	144.8	144.8
25°	222.7	200.8	177.6	170.8	169.4	166.7	163.9	162.6	163.9	168.0	169.4
27.5°	300.5	260.9	217.2	202.2	202.2	204.9	210.4	213.1	207.6	204.9	206.3
30°	352.5	299.2	236.3	222.7	225.4	239.1	251.4	259.6	254.1	250.0	251.4
32.5°	338.8	289.6	244.5	241.8	250.0	260.9	267.8	271.9	282.8	286.9	292.3
35°	308.7	271.9	247.3	258.2	263.7	263.7	263.7	263.7	284.1	303.3	308.7
37.5°	377.0	314.2	293.7	297.8	293.7	289.6	293.7	304.6	322.4	337.4	341.5
40°	442.6	363.4	329.2	326.5	325.1	338.8	363.4	382.5	388.0	374.3	377.0
42.5°	515.0	411.2	367.5	371.6	382.5	404.4	431.7	431.7	431.7	419.4	423.5
45°	583.3	467.2	441.2	452.2	452.2	463.1	478.1	468.6	480.9	486.3	493.2
47.5°	663.9	542.3	485.0	475.4	476.8	498.6	504.1	500.0	508.2	498.6	498.6
50°	688.5	554.6	509.6	546.4	546.4	521.8	501.4	504.1	527.3	553.3	558.7
52.5°	875.7	687.1	646.2	684.4	700.8	658.5	658.5	663.9	669.4	688.5	694.0
55°	1310.1	979.5	856.5	945.3	957.6	983.6	1054.6	1043.7	980.9	949.4	946.7
57.5°	1959.0	1453.5	1066.9	1192.6	1271.8	1378.4	1431.7	1400.2	1315.5	1286.9	1255.4
60°	2504.0	1990.4	1382.5	1601.1	1719.9	1737.7	1718.5	1721.3	1657.1	1677.6	1669.4
62.5°	2706.2	2442.6	1777.3	1909.8	1927.6	1872.9	1923.5	2039.6	1935.7	1874.3	1864.7
65°	2766.3	2610.6	1887.9	1801.9	1785.5	1775.9	1975.4	2169.3	1937.1	1793.7	1792.3
67.5°	2706.2	2438.5	1747.2	1605.2	1643.4	1721.3	1980.8	2053.2	1834.7	1676.2	1665.3
70°	2628.4	2161.2	1572.4	1449.4	1538.2	1651.6	1816.9	1788.2	1702.1	1561.4	1554.6
72.5°	2345.6	1872.9	1460.3	1357.9	1459.0	1491.8	1573.7	1561.4	1586.0	1497.2	1493.1
75°	2099.7	1719.9	1393.4	1273.2	1322.4	1316.9	1382.5	1397.5	1467.2	1428.9	1413.9
77.5°	1811.4	1495.9	1228.1	1088.8	1107.9	1106.5	1138.0	1147.5	1196.7	1199.4	1183.0
80°	1418.0	1172.1	959.0	819.7	822.4	797.8	801.9	800.5	810.1	821.0	806.0
82.5°	814.2	654.4	543.7	454.9	435.8	403.0	396.2	398.9	394.8	392.1	392.1
85°	398.9	310.1	285.5	255.5	244.5	236.3	240.4	248.6	252.7	244.5	240.4
87.5°	269.1	232.2	221.3	209.0	203.5	195.4	200.8	207.6	213.1	206.3	204.9
90°	213.1	184.4	181.7	179.0	174.9	168.0	173.5	181.7	185.8	180.3	177.6
92.5°	172.1	148.9	148.9	147.5	143.4	138.0	144.8	151.6	155.7	151.6	150.3
95°	132.5	114.8	118.8	116.1	112.0	110.7	114.8	120.2	122.9	120.2	120.2
97.5°	102.5	90.2	94.3	92.9	87.4	86.1	88.8	92.9	95.6	92.9	91.5
100°	69.7	64.2	69.7	69.7	64.2	61.5	64.2	68.3	69.7	69.7	68.3
102.5°	46.4	43.7	50.5	51.9	49.2	46.4	47.8	50.5	51.9	51.9	51.9
105°	32.8	32.8	39.6	41.0	38.3	35.5	38.3	39.6	39.6	39.6	39.6
107.5°	26.0	27.3	31.4	34.2	31.4	28.7	30.1	31.4	31.4	31.4	32.8
110°	21.9	21.9	26.0	28.7	26.0	24.6	24.6	24.6	24.6	26.0	28.7

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CATALOG NUMBER: ARC-CA6-70-750-U-33-6-5-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	17.8	19.1	21.9	23.2	21.9	20.5	20.5	20.5	20.5	21.9	26.0
115°	15.0	16.4	19.1	19.1	17.8	17.8	17.8	16.4	16.4	17.8	24.6
117.5°	12.3	13.7	15.0	15.0	15.0	13.7	13.7	13.7	13.7	16.4	26.0
120°	10.9	10.9	12.3	12.3	10.9	10.9	10.9	10.9	9.6	13.7	20.5
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)