

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: P588508

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

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-9)
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-X-5-X
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR
Light Source: (6) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10537 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U4 - G5

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



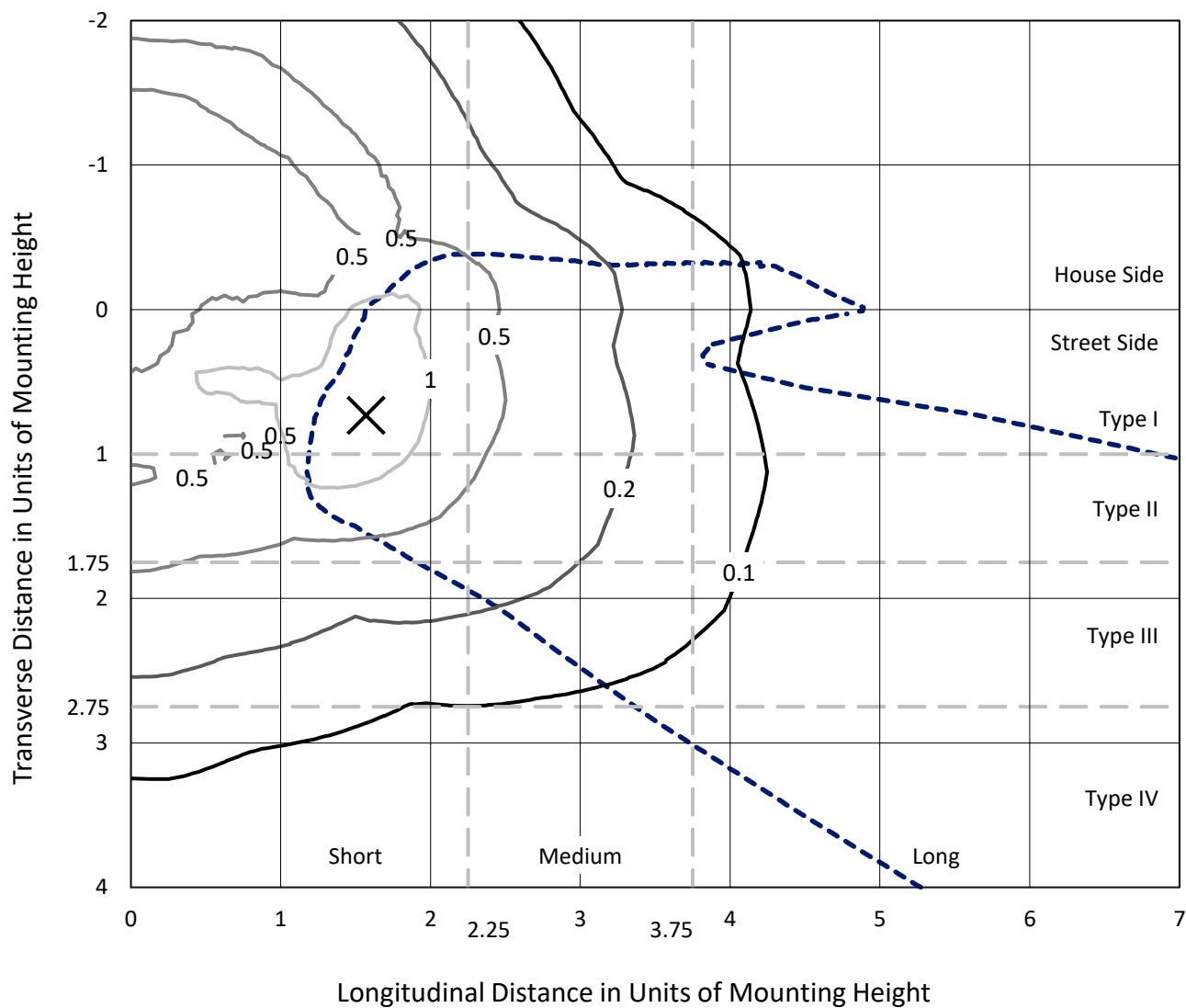
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CATALOG NUMBER: ARC-CA6-70-750-U-33-X-5-X

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

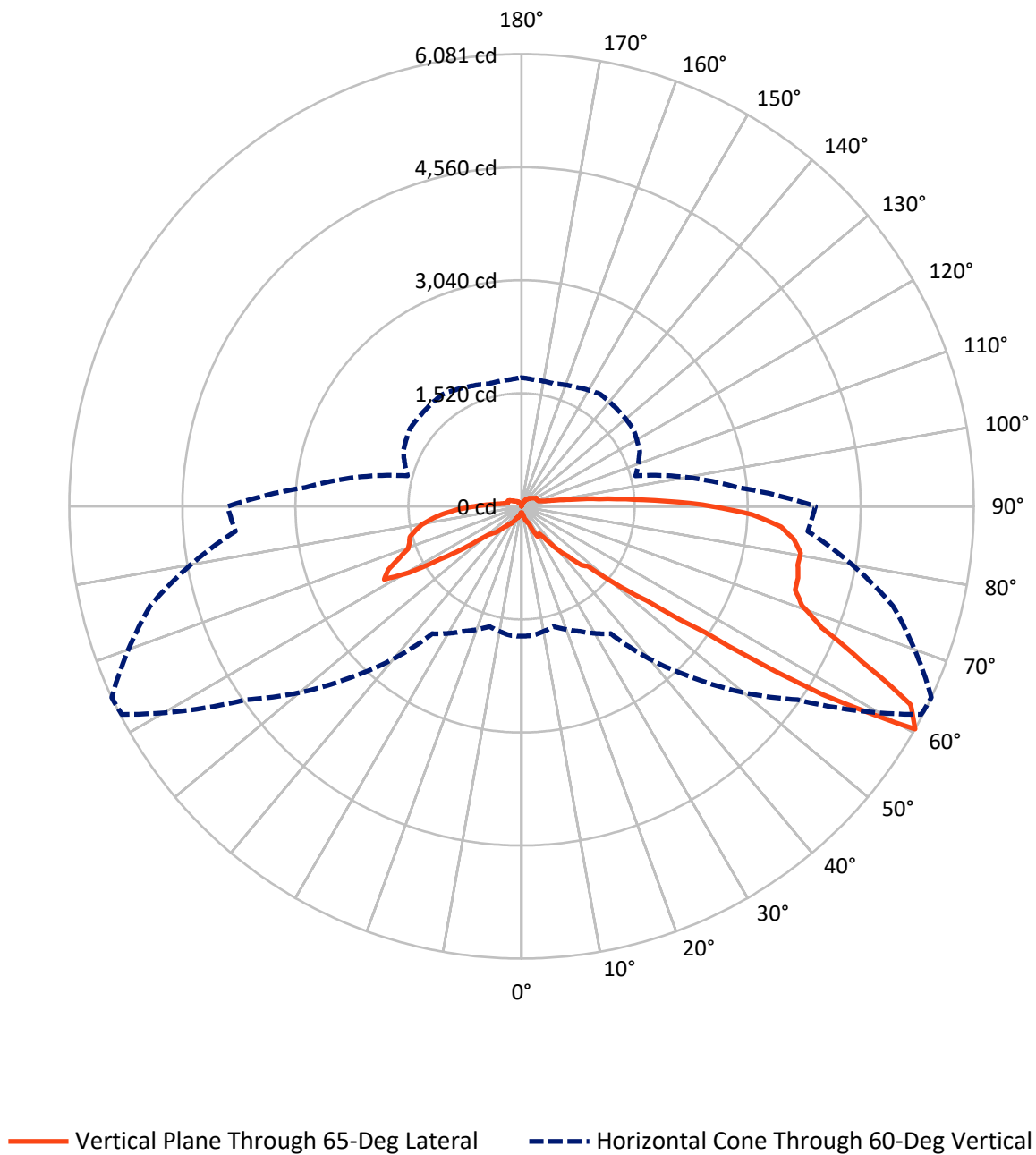


Based on 20 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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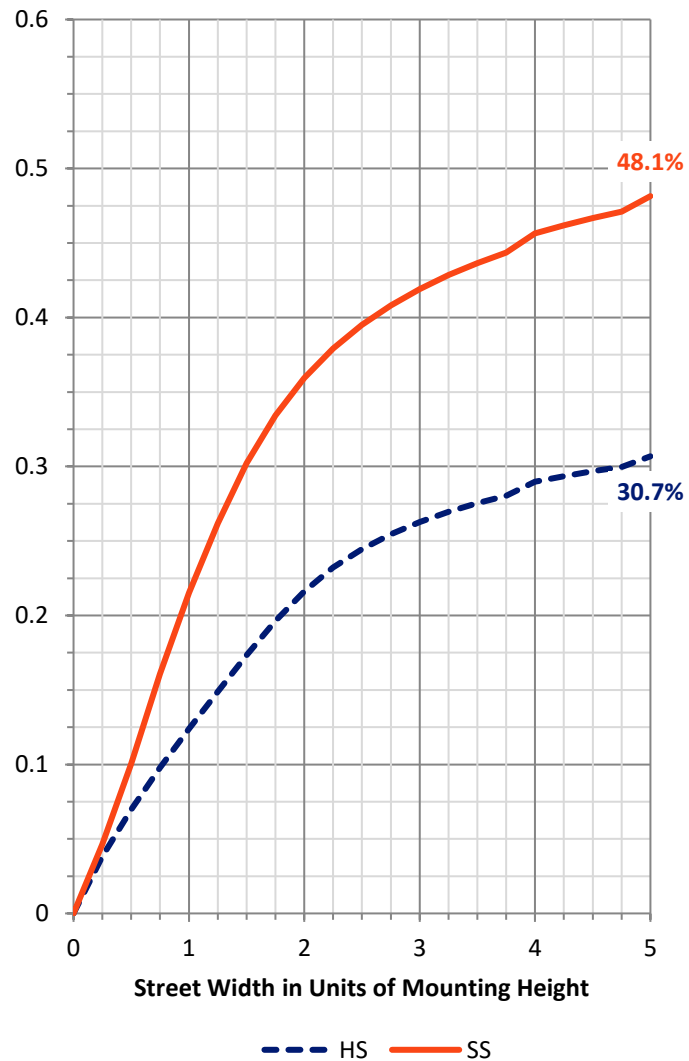
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3513.8	562.7	4076.6
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	5621.7	838.8	6460.4
	% Fixture	53.4	8.0	61.3
Total	Lumens	9135.5	1401.5	10537.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.1	0.1
10°-20°	45.0	0.4
20°-30°	128.7	1.2
30°-40°	277.1	2.6
40°-50°	524.4	5.0
50°-60°	1465.0	13.9
60°-70°	2611.8	24.8
70°-80°	2286.7	21.7
80°-90°	1786.7	17.0
90°-100°	675.5	6.4
100°-110°	232.3	2.2
110°-120°	190.0	1.8
120°-130°	127.6	1.2
130°-140°	87.6	0.8
140°-150°	55.1	0.5
150°-160°	25.5	0.2
160°-170°	7.2	0.1
170°-180°	0.6	0.0
0°-90°	9135.5	86.7
0°-180°	10537.0	100.0

Coefficient of Utilization



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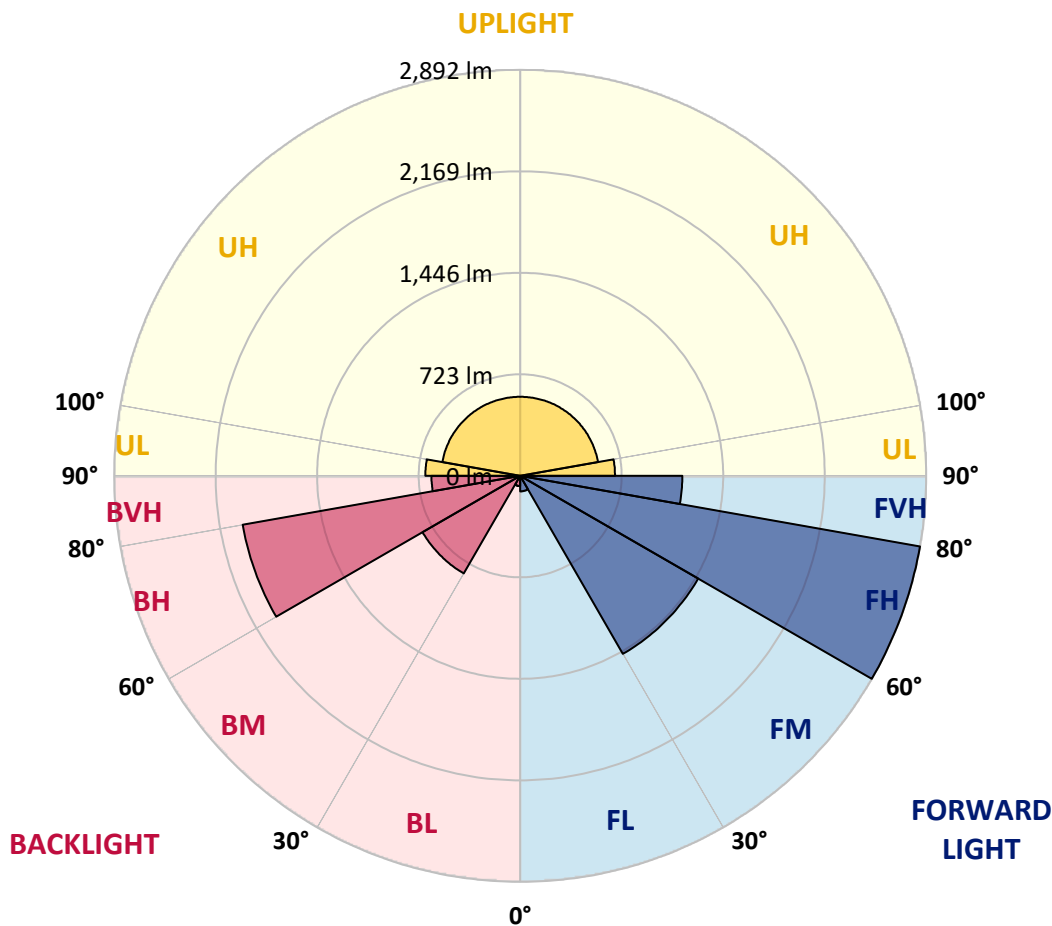
CATALOG NUMBER: ARC-CA6-70-750-U-33-X-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	111.0	1.1			
FM	(30°-60°)	1464.0	13.9			
FH	(60°-80°)	2891.8	27.4			G2/5000
FVH	(80°-90°)	1154.8	11.0			G5
BL	(0°-30°)	72.8	0.7	B0/110		
BM	(30°-60°)	802.6	7.6	B1/1000		
BH	(60°-80°)	2006.7	19.0	B3/2500		G3/2500
BVH	(80°-90°)	631.8	6.0			G4/750
UL	(90°-100°)	675.5	6.4		U4/1000	
UH	(100°-180°)	562.7	5.3		U4/1000	

BUG Rating: B3-U4-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
2.5°	92.9	90.2	87.4	87.4	86.1	84.7	84.7	82.0	83.3	82.0	82.0
5°	109.3	107.9	105.2	106.6	103.8	102.5	102.5	101.1	99.7	98.4	94.3
7.5°	127.0	127.0	128.4	129.8	125.7	121.6	120.2	117.5	117.5	116.1	113.4
10°	146.2	144.8	139.3	139.3	136.6	133.9	135.2	133.9	133.9	133.9	128.4
12.5°	151.6	150.3	146.2	146.2	146.2	144.8	150.3	148.9	150.3	148.9	140.7
15°	170.8	169.4	168.0	169.4	174.9	185.8	199.5	194.0	195.4	192.6	162.6
17.5°	179.0	183.1	185.8	187.2	192.6	192.6	195.4	194.0	199.5	203.5	185.8
20°	207.6	204.9	207.6	217.2	230.9	232.2	228.1	228.1	230.9	232.2	198.1
22.5°	219.9	218.6	229.5	221.3	221.3	228.1	252.7	244.5	244.5	241.8	213.1
25°	285.5	291.0	301.9	315.6	348.4	357.9	385.2	355.2	359.3	316.9	270.5
27.5°	342.9	347.0	411.2	468.6	494.5	480.9	504.1	448.1	453.5	459.0	394.8
30°	360.7	368.8	461.7	504.1	538.2	510.9	541.0	467.2	463.1	494.5	468.6
32.5°	347.0	355.2	453.5	471.3	506.8	607.9	569.7	450.8	438.5	453.5	485.0
35°	381.1	386.6	445.4	403.0	435.8	849.7	745.9	526.0	501.4	418.0	464.5
37.5°	457.6	457.6	527.3	557.4	582.0	1002.7	979.5	654.4	635.2	489.1	536.9
40°	554.6	551.9	638.0	658.5	669.4	908.5	1184.4	834.7	792.3	575.1	699.4
42.5°	613.4	607.9	677.6	699.4	699.4	769.1	1340.2	1016.4	918.0	670.8	855.2
45°	636.6	642.1	732.2	704.9	725.4	789.6	1506.8	1267.7	1129.8	786.9	991.8
47.5°	576.5	584.7	714.5	717.2	613.4	631.1	1351.1	1316.9	1203.5	842.9	1035.5
50°	707.6	713.1	759.6	728.1	677.6	799.2	1609.3	1692.6	1643.4	1043.7	1092.9
52.5°	971.3	995.9	1039.6	1066.9	1051.9	1342.9	2158.4	2143.4	2102.4	1566.9	1491.8
55°	1258.2	1278.7	1340.2	1505.4	1631.1	2010.9	2684.4	2998.6	2995.9	2545.1	2325.1
57.5°	1519.1	1520.5	1528.7	1732.2	1926.2	2625.7	3516.4	4670.7	4774.5	4065.5	3329.2
60°	1745.9	1741.8	1672.1	1853.8	2090.1	3255.4	4532.7	6060.0	6080.5	5169.3	3862.0
62.5°	1807.4	1795.1	1694.0	1863.4	2065.6	3267.7	4792.3	5894.7	5871.5	5247.2	3931.7
65°	1754.1	1741.8	1613.4	1765.0	1860.6	2969.9	4426.2	5069.6	5031.4	4793.7	3743.1
67.5°	1674.8	1683.0	1556.0	1672.1	1737.7	2785.5	4040.9	4362.0	4351.0	4467.2	3586.0
70°	1560.1	1566.9	1450.8	1594.2	1689.9	2668.0	3672.1	4020.5	4001.3	4172.1	3355.2
72.5°	1564.2	1584.7	1446.7	1554.6	1654.4	2506.8	3505.4	3903.0	3847.0	3872.9	3077.8
75°	1575.1	1602.4	1456.3	1553.3	1646.2	2448.1	3486.3	3912.5	3841.5	3765.0	2972.6
77.5°	1579.2	1618.8	1461.7	1568.3	1648.9	2367.5	3442.6	3864.7	3797.8	3661.2	2848.3
80°	1546.4	1588.8	1438.5	1569.7	1631.1	2207.6	3331.9	3856.5	3806.0	3647.5	2797.8
82.5°	1480.9	1523.2	1393.4	1501.4	1597.0	2045.1	3176.2	3696.7	3694.0	3516.4	2691.2
85°	1337.4	1383.9	1285.5	1385.2	1502.7	1829.2	2862.0	3424.8	3500.0	3356.5	2547.8
87.5°	1199.4	1245.9	1194.0	1250.0	1368.8	1590.1	2459.0	2956.3	3097.0	2978.1	2188.5
90°	1042.3	1090.2	1047.8	1025.9	1121.6	1269.1	1965.8	2299.2	2431.7	2359.3	1610.6
92.5°	834.7	875.7	836.1	785.5	842.9	931.7	1460.4	1609.3	1640.7	1571.0	1056.0
95°	631.1	661.2	625.7	575.1	582.0	638.0	1006.8	1054.6	1046.4	963.1	670.8
97.5°	438.5	456.3	433.1	397.5	409.8	445.4	666.7	661.2	661.2	588.8	438.5
100°	304.6	311.5	300.5	284.2	293.7	316.9	448.1	446.7	433.1	397.5	319.7
102.5°	241.8	243.2	232.2	221.3	215.8	237.7	323.8	322.4	325.1	308.7	250.0
105°	213.1	211.7	202.2	192.6	181.7	203.5	256.8	267.8	266.4	252.7	214.5
107.5°	195.4	194.0	184.4	176.2	166.7	185.8	222.7	237.7	236.3	235.0	202.2
110°	181.7	180.3	172.1	163.9	155.7	177.6	209.0	232.2	232.2	232.2	204.9

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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	172.1	172.1	165.3	158.5	151.6	176.2	200.8	228.1	228.1	235.0	214.5
115°	166.7	165.3	159.8	155.7	150.3	177.6	198.1	225.4	226.8	236.3	213.1
117.5°	162.6	161.2	157.1	151.6	148.9	174.9	199.5	230.9	229.5	244.5	209.0
120°	155.7	153.0	147.5	142.1	139.3	161.2	194.0	224.0	221.3	228.1	192.6
122.5°	150.3	142.1	132.5	128.4	128.4	146.2	181.7	202.2	199.5	194.0	173.5
125°	138.0	129.8	121.6	120.2	121.6	136.6	173.5	185.8	187.2	183.1	163.9
127.5°	124.3	118.9	114.8	114.8	117.5	133.9	170.8	179.0	179.0	170.8	155.7
130°	117.5	116.1	113.4	113.4	118.9	135.2	166.7	169.4	169.4	158.5	151.6
132.5°	114.8	112.0	109.3	109.3	114.8	131.1	155.7	161.2	159.8	148.9	143.4
135°	109.3	107.9	105.2	105.2	112.0	128.4	146.2	151.6	150.3	136.6	132.5
137.5°	106.6	103.8	103.8	103.8	110.7	127.0	138.0	142.1	140.7	127.0	122.9
140°	102.5	101.1	98.4	98.4	107.9	122.9	129.8	131.1	129.8	118.9	114.8
142.5°	95.6	94.3	92.9	95.6	105.2	116.1	121.6	121.6	120.2	113.4	107.9
145°	91.5	90.2	88.8	95.6	103.8	109.3	114.8	110.7	110.7	106.6	101.1
147.5°	87.4	86.1	86.1	91.5	98.4	98.4	102.5	101.1	102.5	101.1	95.6
150°	79.2	77.9	77.9	82.0	83.3	83.3	87.4	87.4	87.4	87.4	83.3
152.5°	69.7	68.3	69.7	71.0	71.0	71.0	73.8	75.1	75.1	73.8	72.4
155°	60.1	60.1	60.1	61.5	61.5	60.1	64.2	64.2	64.2	64.2	62.8
157.5°	53.3	53.3	53.3	53.3	53.3	51.9	54.6	54.6	56.0	54.6	54.6
160°	46.4	45.1	45.1	45.1	45.1	43.7	45.1	45.1	45.1	46.4	46.4
162.5°	36.9	35.5	35.5	35.5	35.5	32.8	35.5	34.2	35.5	35.5	36.9
165°	30.1	28.7	28.7	28.7	27.3	26.0	27.3	26.0	26.0	26.0	27.3
167.5°	23.2	23.2	21.9	23.2	21.9	19.1	19.1	17.8	17.8	17.8	17.8
170°	17.8	16.4	15.0	16.4	15.0	12.3	12.3	10.9	10.9	9.6	9.6
172.5°	12.3	10.9	9.6	10.9	9.6	6.8	6.8	4.1	4.1	4.1	4.1
175°	10.9	9.6	8.2	9.6	8.2	5.5	4.1	2.7	2.7	2.7	2.7
177.5°	10.9	9.6	8.2	9.6	8.2	5.5	4.1	2.7	2.7	2.7	2.7
180°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
2.5°	82.0	80.6	79.2	82.0	80.6	82.0	83.3	84.7	84.7	83.3	83.3
5°	94.3	92.9	90.2	88.8	86.1	86.1	86.1	88.8	88.8	87.4	88.8
7.5°	112.0	109.3	105.2	102.5	98.4	98.4	97.0	99.7	101.1	98.4	99.7
10°	125.7	124.3	118.9	114.8	110.7	109.3	109.3	110.7	110.7	109.3	109.3
12.5°	138.0	135.2	129.8	125.7	120.2	118.9	118.9	120.2	120.2	118.9	118.9
15°	155.7	147.5	142.1	138.0	132.5	131.1	129.8	131.1	132.5	129.8	129.8
17.5°	180.3	170.8	158.5	147.5	142.1	144.8	146.2	147.5	146.2	142.1	142.1
20°	194.0	188.5	172.1	163.9	157.1	157.1	157.1	157.1	157.1	155.7	157.1
22.5°	203.5	195.4	174.9	169.4	165.3	168.0	170.8	172.1	172.1	170.8	170.8
25°	247.3	217.2	196.7	192.6	187.2	188.5	185.8	185.8	187.2	185.8	188.5
27.5°	340.2	291.0	244.5	228.1	224.0	224.0	226.8	226.8	226.8	226.8	225.4
30°	408.5	351.1	274.6	252.7	250.0	262.3	269.1	274.6	271.9	267.8	267.8
32.5°	419.4	356.6	280.1	271.9	278.7	288.2	295.1	299.2	303.3	301.9	300.5
35°	396.2	329.2	276.0	286.9	292.3	297.8	299.2	296.4	308.7	314.2	315.6
37.5°	442.6	368.8	321.0	329.2	322.4	316.9	319.7	321.0	337.4	345.6	353.8
40°	565.6	445.4	364.8	360.7	356.6	368.8	385.2	393.4	392.1	386.6	388.0
42.5°	684.4	520.5	411.2	409.8	408.5	430.3	456.3	454.9	442.6	433.1	433.1
45°	806.0	592.9	485.0	486.3	483.6	491.8	498.6	493.2	494.5	497.3	500.0
47.5°	881.1	658.5	531.4	527.3	509.6	526.0	545.1	532.8	528.7	521.9	524.6
50°	898.9	674.9	558.7	588.8	572.4	560.1	539.6	531.4	546.4	557.4	565.6
52.5°	1168.0	833.3	698.1	745.9	724.0	680.3	676.2	662.6	679.0	680.3	689.9
55°	1957.6	1336.1	961.7	1008.2	1009.6	994.5	1062.8	1024.6	990.4	975.4	969.9
57.5°	3086.0	2065.6	1244.5	1303.3	1359.3	1412.6	1505.4	1427.6	1329.2	1316.9	1330.6
60°	3952.1	2916.6	1587.4	1752.7	1827.8	1830.6	1842.9	1766.4	1706.3	1711.7	1730.9
62.5°	4137.9	3627.0	2021.8	2090.1	2097.0	2046.4	2068.3	2117.5	2032.8	1965.8	1983.6
65°	4013.6	3908.4	2163.9	1986.3	1975.4	1983.6	2132.5	2269.1	2098.3	1928.9	1928.9
67.5°	3773.2	3694.0	2019.1	1786.9	1816.9	1909.8	2098.3	2166.6	1985.0	1804.6	1804.6
70°	3516.4	3357.9	1856.5	1628.4	1702.2	1810.1	1933.0	1938.5	1831.9	1703.5	1695.3
72.5°	3239.0	3095.6	1786.9	1582.0	1616.1	1635.2	1702.2	1744.5	1732.2	1648.9	1647.5
75°	3157.1	3041.0	1785.5	1560.1	1539.6	1532.8	1579.2	1670.7	1713.1	1663.9	1666.6
77.5°	3032.8	2963.1	1702.2	1468.6	1446.7	1446.7	1471.3	1545.1	1609.3	1588.8	1595.6
80°	2946.7	2841.5	1575.1	1368.8	1338.8	1342.9	1345.6	1396.2	1456.3	1459.0	1459.0
82.5°	2781.4	2583.3	1382.5	1219.9	1199.4	1204.9	1195.3	1224.0	1240.4	1260.9	1256.8
85°	2509.5	2229.5	1168.0	1057.4	1024.6	1013.7	1005.5	1006.8	1016.4	1012.3	995.9
87.5°	2102.4	1767.7	931.7	867.5	829.2	801.9	791.0	777.3	775.9	760.9	766.4
90°	1551.9	1213.1	691.2	668.0	640.7	612.0	597.0	583.3	572.4	557.4	551.9
92.5°	1012.3	781.4	505.5	493.2	475.4	459.0	452.2	445.4	442.6	430.3	434.4
95°	632.5	528.7	379.8	366.1	356.6	352.5	353.8	355.2	352.5	338.8	342.9
97.5°	422.1	382.5	296.4	286.9	277.3	276.0	277.3	280.1	281.4	271.9	274.6
100°	311.5	293.7	243.2	236.3	228.1	225.4	226.8	229.5	230.9	222.7	224.0
102.5°	247.3	239.1	210.4	207.6	198.1	195.4	198.1	199.5	200.8	195.4	195.4
105°	217.2	217.2	194.0	192.6	185.8	183.1	184.4	185.8	187.2	181.7	181.7
107.5°	209.0	210.4	187.2	188.5	184.4	183.1	185.8	188.5	187.2	183.1	181.7
110°	215.8	218.6	187.2	191.3	192.6	195.4	200.8	202.2	202.2	199.5	200.8

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	222.7	226.8	184.4	194.0	203.5	210.4	219.9	225.4	222.7	221.3	222.7
115°	217.2	219.9	172.1	187.2	204.9	214.5	217.2	217.2	210.4	210.4	211.7
117.5°	210.4	215.8	159.8	172.1	184.4	192.6	191.3	187.2	179.0	176.2	184.4
120°	195.4	211.7	153.0	155.7	157.1	159.8	155.7	151.6	144.8	143.4	148.9
122.5°	180.3	195.4	140.7	138.0	136.6	136.6	135.2	133.9	129.8	131.1	136.6
125°	168.0	176.2	128.4	124.3	122.9	124.3	124.3	124.3	121.6	118.9	118.9
127.5°	158.5	161.2	121.6	116.1	114.8	114.8	114.8	116.1	114.8	110.7	110.7
130°	153.0	151.6	117.5	107.9	106.6	107.9	107.9	109.3	106.6	103.8	103.8
132.5°	142.1	139.3	112.0	102.5	101.1	102.5	102.5	102.5	99.7	97.0	97.0
135°	129.8	127.0	105.2	95.6	94.3	95.6	95.6	97.0	94.3	91.5	91.5
137.5°	120.2	117.5	98.4	90.2	88.8	88.8	90.2	90.2	88.8	86.1	86.1
140°	112.0	109.3	91.5	84.7	82.0	83.3	83.3	83.3	82.0	79.2	79.2
142.5°	105.2	103.8	84.7	77.9	75.1	76.5	76.5	77.9	75.1	72.4	72.4
145°	99.7	97.0	79.2	71.0	69.7	69.7	69.7	71.0	68.3	65.6	65.6
147.5°	94.3	91.5	72.4	64.2	62.8	62.8	62.8	62.8	61.5	58.7	57.4
150°	83.3	82.0	66.9	58.7	56.0	56.0	56.0	54.6	51.9	49.2	49.2
152.5°	71.0	69.7	58.7	51.9	49.2	49.2	47.8	47.8	45.1	43.7	42.3
155°	61.5	61.5	53.3	46.4	43.7	42.3	41.0	41.0	39.6	38.3	36.9
157.5°	54.6	53.3	47.8	42.3	36.9	36.9	35.5	35.5	34.2	32.8	31.4
160°	46.4	46.4	41.0	35.5	31.4	30.1	30.1	28.7	27.3	26.0	26.0
162.5°	36.9	36.9	32.8	28.7	24.6	24.6	23.2	23.2	21.9	20.5	19.1
165°	26.0	26.0	24.6	21.9	19.1	17.8	17.8	17.8	16.4	15.0	15.0
167.5°	17.8	17.8	16.4	15.0	13.7	12.3	13.7	13.7	12.3	10.9	10.9
170°	9.6	9.6	8.2	8.2	6.8	6.8	8.2	9.6	8.2	6.8	5.5
172.5°	4.1	4.1	4.1	4.1	2.7	4.1	5.5	6.8	5.5	4.1	4.1
175°	2.7	2.7	4.1	4.1	2.7	4.1	5.5	6.8	5.5	4.1	4.1
177.5°	2.7	2.7	4.1	4.1	2.7	4.1	5.5	6.8	5.5	4.1	4.1
180°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5

(END OF REPORT)