

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: P588460

Luminaire Tested: **ARC-CA6-50-750-U-33-X-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588460
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-CA6-50-750-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: 7854 lumens
Efficiency: N/A
Efficacy: 145.4 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): 54
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

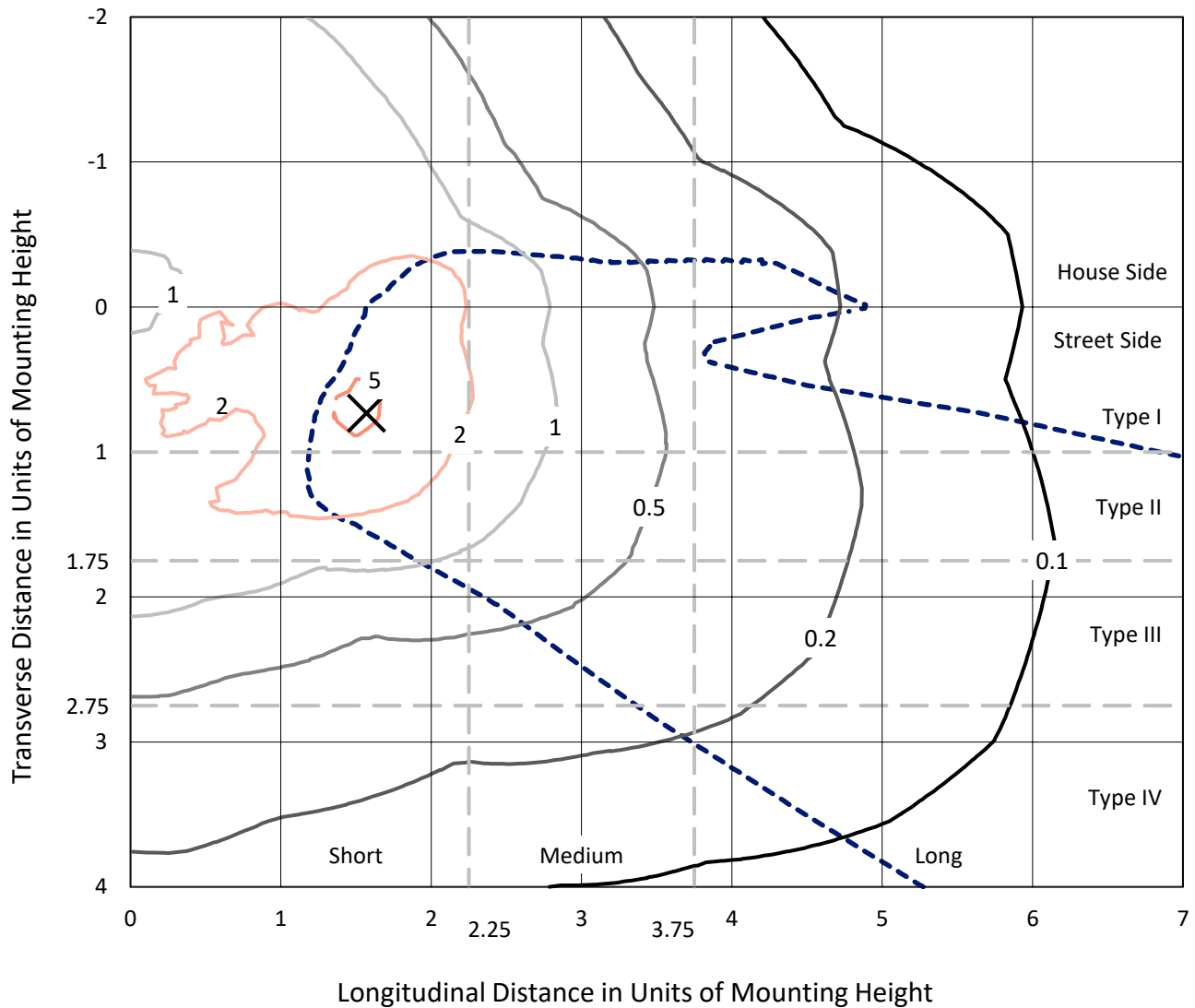


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

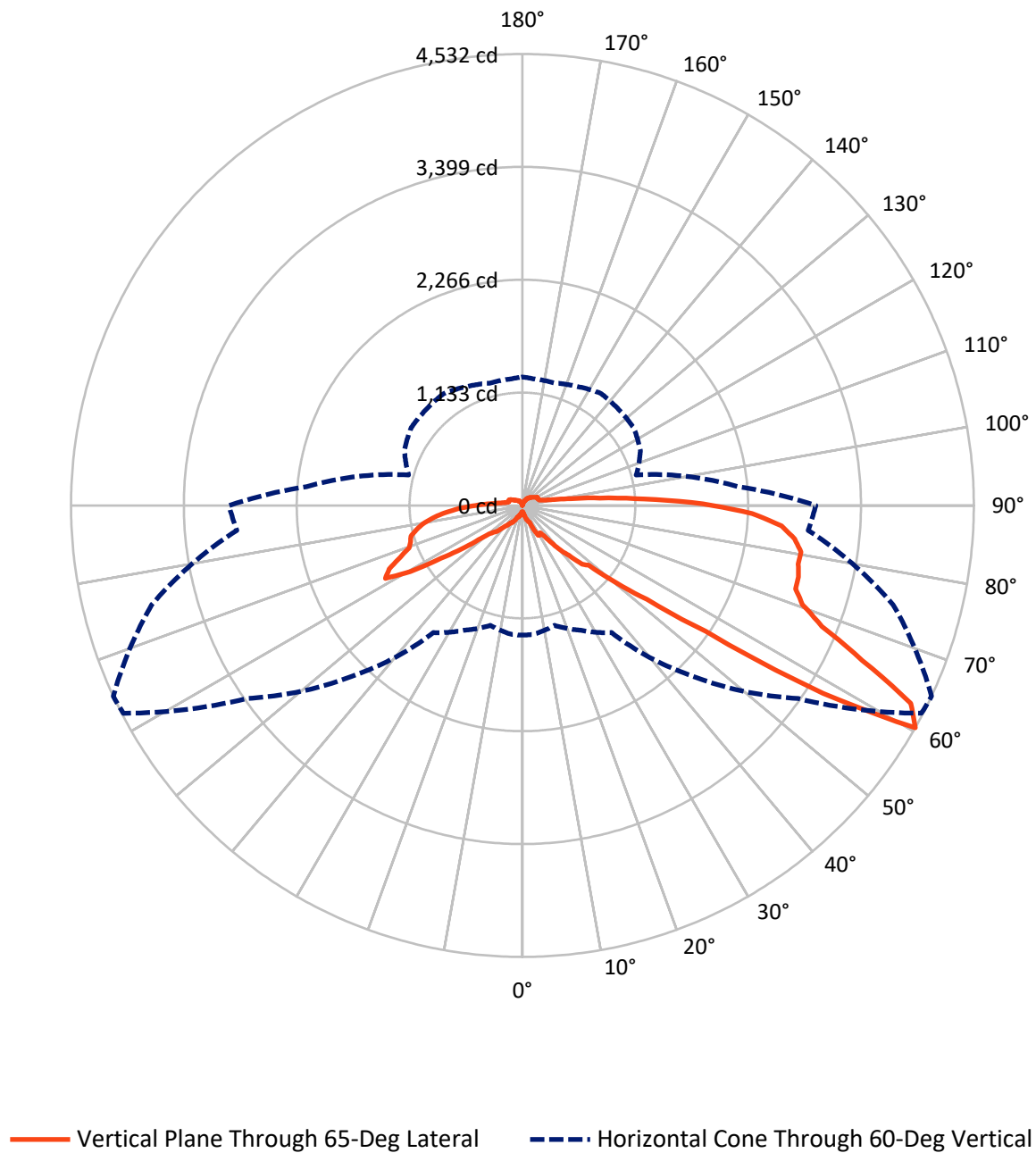


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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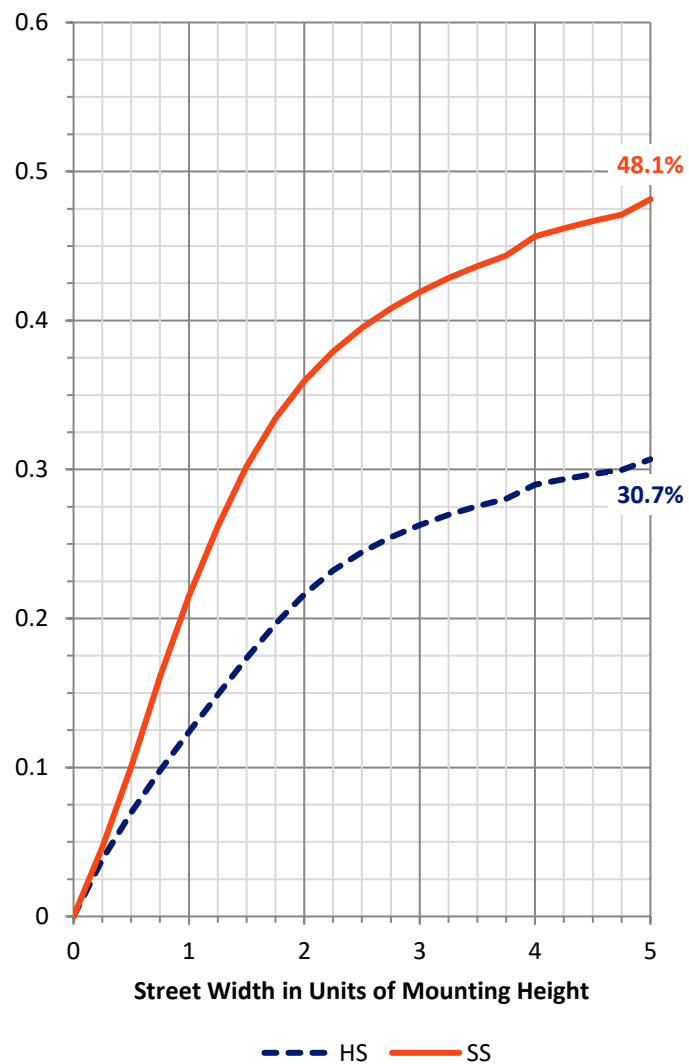
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2619.1	419.4	3038.6
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	4190.3	625.2	4815.4
	% Fixture	53.4	8.0	61.3
Total	Lumens	6809.4	1044.6	7854.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.1
10°-20°	33.5	0.4
20°-30°	95.9	1.2
30°-40°	206.6	2.6
40°-50°	390.9	5.0
50°-60°	1092.0	13.9
60°-70°	1946.8	24.8
70°-80°	1704.4	21.7
80°-90°	1331.7	17.0
90°-100°	503.5	6.4
100°-110°	173.2	2.2
110°-120°	141.6	1.8
120°-130°	95.1	1.2
130°-140°	65.3	0.8
140°-150°	41.0	0.5
150°-160°	19.0	0.2
160°-170°	5.4	0.1
170°-180°	0.5	0.0
0°-90°	6809.4	86.7
0°-180°	7854.0	100.0

Coefficient of Utilization



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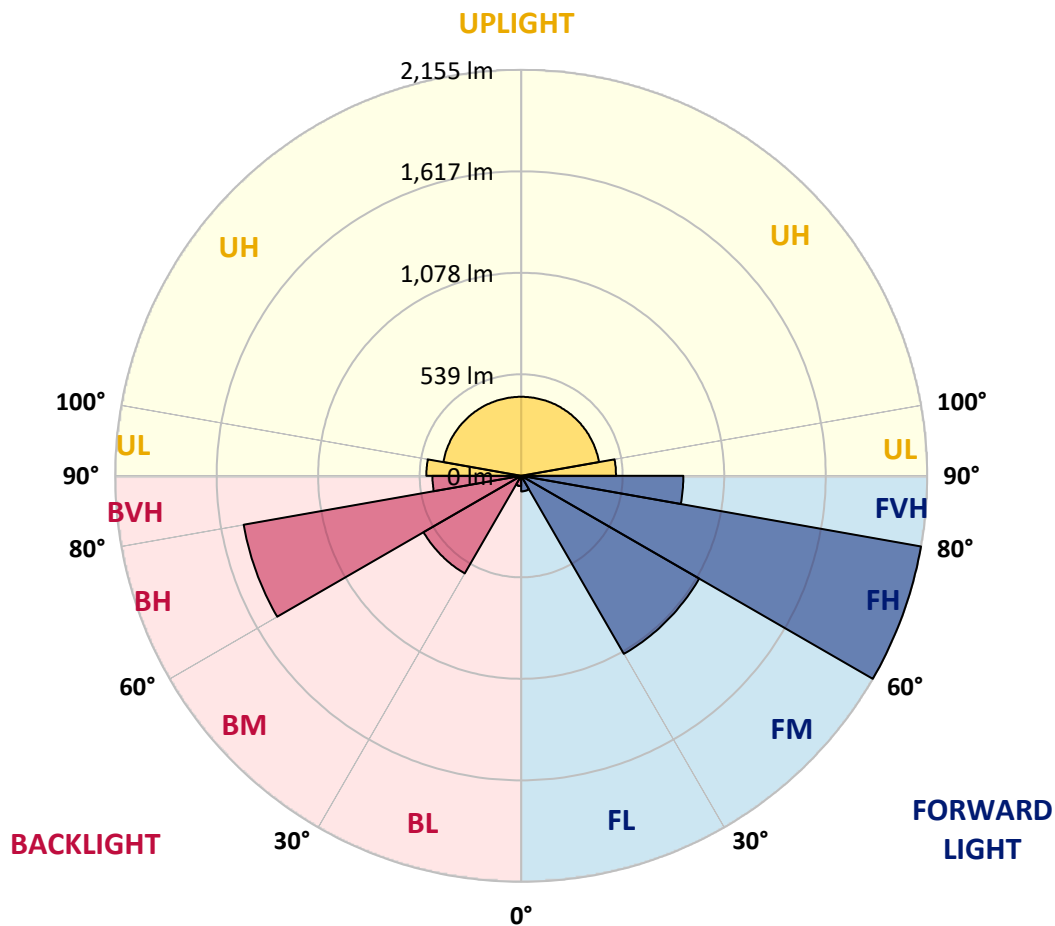
CATALOG NUMBER: ARC-CA6-50-750-U-33-X-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	82.8	1.1			
FM	(30°-60°)	1091.2	13.9			
FH	(60°-80°)	2155.5	27.4			G2/5000
FVH	(80°-90°)	860.8	11.0			G5
BL	(0°-30°)	54.3	0.7	B0/110		
BM	(30°-60°)	598.2	7.6	B1/1000		
BH	(60°-80°)	1495.7	19.0	B3/2500		G3/2500
BVH	(80°-90°)	470.9	6.0			G3/500
UL	(90°-100°)	503.5	6.4		U4/1000	
UH	(100°-180°)	419.4	5.3		U3/500	

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°	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
2.5°	69.2	67.2	65.2	65.2	64.2	63.1	63.1	61.1	62.1	61.1	61.1
5°	81.5	80.4	78.4	79.4	77.4	76.4	76.4	75.4	74.3	73.3	70.3
7.5°	94.7	94.7	95.7	96.7	93.7	90.6	89.6	87.6	87.6	86.6	84.5
10°	109.0	107.9	103.9	103.9	101.8	99.8	100.8	99.8	99.8	99.8	95.7
12.5°	113.0	112.0	109.0	109.0	109.0	107.9	112.0	111.0	112.0	111.0	104.9
15°	127.3	126.3	125.2	126.3	130.3	138.5	148.7	144.6	145.6	143.6	121.2
17.5°	133.4	136.4	138.5	139.5	143.6	143.6	145.6	144.6	148.7	151.7	138.5
20°	154.8	152.7	154.8	161.9	172.1	173.1	170.0	170.0	172.1	173.1	147.6
22.5°	163.9	162.9	171.1	165.0	165.0	170.0	188.4	182.3	182.3	180.2	158.8
25°	212.8	216.9	225.0	235.2	259.7	266.8	287.1	264.7	267.8	236.2	201.6
27.5°	255.6	258.6	306.5	349.3	368.6	358.4	375.7	334.0	338.1	342.1	294.3
30°	268.8	274.9	344.2	375.7	401.2	380.8	403.2	348.2	345.2	368.6	349.3
32.5°	258.6	264.7	338.1	351.3	377.8	453.1	424.6	336.0	326.9	338.1	361.5
35°	284.1	288.2	332.0	300.4	324.8	633.4	556.0	392.0	373.7	311.6	346.2
37.5°	341.1	341.1	393.0	415.4	433.8	747.4	730.1	487.7	473.5	364.5	400.2
40°	413.4	411.4	475.5	490.8	498.9	677.1	882.8	622.2	590.6	428.7	521.3
42.5°	457.2	453.1	505.1	521.3	521.3	573.3	998.9	757.6	684.3	500.0	637.4
45°	474.5	478.6	545.8	525.4	540.7	588.6	1123.1	944.9	842.1	586.5	739.3
47.5°	429.7	435.8	532.5	534.6	457.2	470.4	1007.1	981.6	897.1	628.3	771.8
50°	527.5	531.5	566.2	542.7	505.1	595.7	1199.5	1261.6	1225.0	777.9	814.6
52.5°	724.0	742.3	774.9	795.3	784.1	1000.9	1608.8	1597.6	1567.1	1167.9	1111.9
55°	937.8	953.1	998.9	1122.1	1215.8	1498.9	2000.9	2235.1	2233.0	1897.0	1733.1
57.5°	1132.3	1133.3	1139.4	1291.2	1435.7	1957.1	2621.0	3481.4	3558.8	3030.3	2481.5
60°	1301.3	1298.3	1246.3	1381.8	1557.9	2426.5	3378.6	4517.0	4532.3	3853.1	2878.6
62.5°	1347.2	1338.0	1262.6	1388.9	1539.6	2435.7	3572.1	4393.8	4376.5	3911.1	2930.5
65°	1307.4	1298.3	1202.6	1315.6	1386.9	2213.7	3299.2	3778.8	3750.2	3573.1	2790.0
67.5°	1248.4	1254.5	1159.8	1246.3	1295.2	2076.2	3012.0	3251.3	3243.2	3329.7	2672.9
70°	1162.9	1167.9	1081.4	1188.3	1259.6	1988.7	2737.1	2996.7	2982.5	3109.8	2500.8
72.5°	1165.9	1181.2	1078.3	1158.8	1233.1	1868.5	2612.9	2909.2	2867.4	2886.8	2294.1
75°	1174.1	1194.4	1085.5	1157.8	1227.0	1824.7	2598.6	2916.3	2863.3	2806.3	2215.7
77.5°	1177.1	1206.6	1089.5	1169.0	1229.0	1764.6	2566.0	2880.7	2830.8	2728.9	2123.1
80°	1152.7	1184.2	1072.2	1170.0	1215.8	1645.5	2483.5	2874.5	2836.9	2718.8	2085.4
82.5°	1103.8	1135.4	1038.6	1119.1	1190.3	1524.3	2367.5	2755.4	2753.4	2621.0	2006.0
85°	996.9	1031.5	958.2	1032.5	1120.1	1363.4	2133.3	2552.8	2608.8	2501.9	1899.1
87.5°	894.0	928.7	890.0	931.7	1020.3	1185.3	1832.9	2203.5	2308.4	2219.8	1631.3
90°	776.9	812.6	781.0	764.7	836.0	946.0	1465.3	1713.7	1812.5	1758.5	1200.5
92.5°	622.2	652.7	623.2	585.5	628.3	694.5	1088.5	1199.5	1222.9	1171.0	787.1
95°	470.4	492.8	466.4	428.7	433.8	475.5	750.5	786.1	780.0	717.9	500.0
97.5°	326.9	340.1	322.8	296.3	305.5	332.0	496.9	492.8	492.8	438.9	326.9
100°	227.1	232.2	224.0	211.8	218.9	236.2	334.0	333.0	322.8	296.3	238.3
102.5°	180.2	181.3	173.1	165.0	160.9	177.2	241.3	240.3	242.3	230.1	186.3
105°	158.8	157.8	150.7	143.6	135.4	151.7	191.4	199.6	198.6	188.4	159.9
107.5°	145.6	144.6	137.5	131.4	124.2	138.5	166.0	177.2	176.2	175.1	150.7
110°	135.4	134.4	128.3	122.2	116.1	132.4	155.8	173.1	173.1	173.1	152.7

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CATALOG NUMBER: ARC-CA6-50-750-U-33-X-5-X

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	128.3	128.3	123.2	118.1	113.0	131.4	149.7	170.0	170.0	175.1	159.9
115°	124.2	123.2	119.1	116.1	112.0	132.4	147.6	168.0	169.0	176.2	158.8
117.5°	121.2	120.2	117.1	113.0	111.0	130.3	148.7	172.1	171.1	182.3	155.8
120°	116.1	114.0	110.0	105.9	103.9	120.2	144.6	167.0	165.0	170.0	143.6
122.5°	112.0	105.9	98.8	95.7	95.7	109.0	135.4	150.7	148.7	144.6	129.3
125°	102.8	96.7	90.6	89.6	90.6	101.8	129.3	138.5	139.5	136.4	122.2
127.5°	92.7	88.6	85.5	85.5	87.6	99.8	127.3	133.4	133.4	127.3	116.1
130°	87.6	86.6	84.5	84.5	88.6	100.8	124.2	126.3	126.3	118.1	113.0
132.5°	85.5	83.5	81.5	81.5	85.5	97.8	116.1	120.2	119.1	111.0	106.9
135°	81.5	80.4	78.4	78.4	83.5	95.7	109.0	113.0	112.0	101.8	98.8
137.5°	79.4	77.4	77.4	77.4	82.5	94.7	102.8	105.9	104.9	94.7	91.6
140°	76.4	75.4	73.3	73.3	80.4	91.6	96.7	97.8	96.7	88.6	85.5
142.5°	71.3	70.3	69.2	71.3	78.4	86.6	90.6	90.6	89.6	84.5	80.4
145°	68.2	67.2	66.2	71.3	77.4	81.5	85.5	82.5	82.5	79.4	75.4
147.5°	65.2	64.2	64.2	68.2	73.3	73.3	76.4	75.4	76.4	75.4	71.3
150°	59.1	58.0	58.0	61.1	62.1	62.1	65.2	65.2	65.2	65.2	62.1
152.5°	51.9	50.9	51.9	52.9	52.9	52.9	55.0	56.0	56.0	55.0	54.0
155°	44.8	44.8	44.8	45.8	45.8	44.8	47.9	47.9	47.9	47.9	46.8
157.5°	39.7	39.7	39.7	39.7	39.7	38.7	40.7	40.7	41.7	40.7	40.7
160°	34.6	33.6	33.6	33.6	33.6	32.6	33.6	33.6	33.6	34.6	34.6
162.5°	27.5	26.5	26.5	26.5	26.5	24.4	26.5	25.5	26.5	26.5	27.5
165°	22.4	21.4	21.4	21.4	20.4	19.3	20.4	19.3	19.3	19.3	20.4
167.5°	17.3	17.3	16.3	17.3	16.3	14.3	14.3	13.2	13.2	13.2	13.2
170°	13.2	12.2	11.2	12.2	11.2	9.2	9.2	8.1	8.1	7.1	7.1
172.5°	9.2	8.1	7.1	8.1	7.1	5.1	5.1	3.1	3.1	3.1	3.1
175°	8.1	7.1	6.1	7.1	6.1	4.1	3.1	2.0	2.0	2.0	2.0
177.5°	8.1	7.1	6.1	7.1	6.1	4.1	3.1	2.0	2.0	2.0	2.0
180°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
2.5°	61.1	60.1	59.1	61.1	60.1	61.1	62.1	63.1	63.1	62.1	62.1
5°	70.3	69.2	67.2	66.2	64.2	64.2	64.2	66.2	66.2	65.2	66.2
7.5°	83.5	81.5	78.4	76.4	73.3	73.3	72.3	74.3	75.4	73.3	74.3
10°	93.7	92.7	88.6	85.5	82.5	81.5	81.5	82.5	82.5	81.5	81.5
12.5°	102.8	100.8	96.7	93.7	89.6	88.6	88.6	89.6	89.6	88.6	88.6
15°	116.1	110.0	105.9	102.8	98.8	97.8	96.7	97.8	98.8	96.7	96.7
17.5°	134.4	127.3	118.1	110.0	105.9	107.9	109.0	110.0	109.0	105.9	105.9
20°	144.6	140.5	128.3	122.2	117.1	117.1	117.1	117.1	117.1	116.1	117.1
22.5°	151.7	145.6	130.3	126.3	123.2	125.2	127.3	128.3	128.3	127.3	127.3
25°	184.3	161.9	146.6	143.6	139.5	140.5	138.5	138.5	139.5	138.5	140.5
27.5°	253.5	216.9	182.3	170.0	167.0	167.0	169.0	169.0	169.0	169.0	168.0
30°	304.5	261.7	204.7	188.4	186.3	195.5	200.6	204.7	202.6	199.6	199.6
32.5°	312.6	265.8	208.7	202.6	207.7	214.9	219.9	223.0	226.1	225.0	224.0
35°	295.3	245.4	205.7	213.8	217.9	222.0	223.0	221.0	230.1	234.2	235.2
37.5°	329.9	274.9	239.3	245.4	240.3	236.2	238.3	239.3	251.5	257.6	263.7
40°	421.6	332.0	271.9	268.8	265.8	274.9	287.1	293.3	292.2	288.2	289.2
42.5°	510.1	388.0	306.5	305.5	304.5	320.8	340.1	339.1	329.9	322.8	322.8
45°	600.8	441.9	361.5	362.5	360.5	366.6	371.7	367.6	368.6	370.6	372.7
47.5°	656.8	490.8	396.1	393.0	379.8	392.0	406.3	397.1	394.1	389.0	391.0
50°	670.0	503.0	416.5	438.9	426.7	417.5	402.2	396.1	407.3	415.4	421.6
52.5°	870.6	621.1	520.3	556.0	539.7	507.1	504.0	493.9	506.1	507.1	514.2
55°	1459.2	995.9	716.9	751.5	752.5	741.3	792.2	763.7	738.2	727.0	723.0
57.5°	2300.2	1539.6	927.6	971.4	1013.2	1052.9	1122.1	1064.1	990.8	981.6	991.8
60°	2945.8	2174.0	1183.2	1306.4	1362.4	1364.5	1373.6	1316.6	1271.8	1275.9	1290.1
62.5°	3084.3	2703.5	1507.0	1557.9	1563.0	1525.4	1541.6	1578.3	1515.2	1465.3	1478.5
65°	2991.6	2913.2	1612.9	1480.5	1472.4	1478.5	1589.5	1691.3	1564.0	1437.8	1437.8
67.5°	2812.4	2753.4	1505.0	1331.9	1354.3	1423.5	1564.0	1615.0	1479.5	1345.1	1345.1
70°	2621.0	2502.9	1383.8	1213.8	1268.8	1349.2	1440.8	1444.9	1365.5	1269.8	1263.7
72.5°	2414.3	2307.4	1331.9	1179.1	1204.6	1218.9	1268.8	1300.3	1291.2	1229.0	1228.0
75°	2353.2	2266.6	1330.9	1162.9	1147.6	1142.5	1177.1	1245.3	1276.9	1240.2	1242.3
77.5°	2260.5	2208.6	1268.8	1094.6	1078.3	1078.3	1096.7	1151.7	1199.5	1184.2	1189.3
80°	2196.4	2118.0	1174.1	1020.3	997.9	1000.9	1003.0	1040.7	1085.5	1087.5	1087.5
82.5°	2073.2	1925.5	1030.5	909.3	894.0	898.1	891.0	912.4	924.6	939.9	936.8
85°	1870.5	1661.8	870.6	788.1	763.7	755.5	749.4	750.5	757.6	754.5	742.3
87.5°	1567.1	1317.6	694.5	646.6	618.1	597.7	589.6	579.4	578.4	567.2	571.2
90°	1156.7	904.2	515.2	497.9	477.6	456.2	445.0	434.8	426.7	415.4	411.4
92.5°	754.5	582.4	376.8	367.6	354.4	342.1	337.0	332.0	329.9	320.8	323.8
95°	471.5	394.1	283.1	272.9	265.8	262.7	263.7	264.7	262.7	252.5	255.6
97.5°	314.6	285.1	221.0	213.8	206.7	205.7	206.7	208.7	209.8	202.6	204.7
100°	232.2	218.9	181.3	176.2	170.0	168.0	169.0	171.1	172.1	166.0	167.0
102.5°	184.3	178.2	156.8	154.8	147.6	145.6	147.6	148.7	149.7	145.6	145.6
105°	161.9	161.9	144.6	143.6	138.5	136.4	137.5	138.5	139.5	135.4	135.4
107.5°	155.8	156.8	139.5	140.5	137.5	136.4	138.5	140.5	139.5	136.4	135.4
110°	160.9	162.9	139.5	142.6	143.6	145.6	149.7	150.7	150.7	148.7	149.7

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	166.0	169.0	137.5	144.6	151.7	156.8	163.9	168.0	166.0	165.0	166.0
115°	161.9	163.9	128.3	139.5	152.7	159.9	161.9	161.9	156.8	156.8	157.8
117.5°	156.8	160.9	119.1	128.3	137.5	143.6	142.6	139.5	133.4	131.4	137.5
120°	145.6	157.8	114.0	116.1	117.1	119.1	116.1	113.0	107.9	106.9	111.0
122.5°	134.4	145.6	104.9	102.8	101.8	101.8	100.8	99.8	96.7	97.8	101.8
125°	125.2	131.4	95.7	92.7	91.6	92.7	92.7	92.7	90.6	88.6	88.6
127.5°	118.1	120.2	90.6	86.6	85.5	85.5	85.5	86.6	85.5	82.5	82.5
130°	114.0	113.0	87.6	80.4	79.4	80.4	80.4	81.5	79.4	77.4	77.4
132.5°	105.9	103.9	83.5	76.4	75.4	76.4	76.4	76.4	74.3	72.3	72.3
135°	96.7	94.7	78.4	71.3	70.3	71.3	71.3	72.3	70.3	68.2	68.2
137.5°	89.6	87.6	73.3	67.2	66.2	66.2	67.2	67.2	66.2	64.2	64.2
140°	83.5	81.5	68.2	63.1	61.1	62.1	62.1	62.1	61.1	59.1	59.1
142.5°	78.4	77.4	63.1	58.0	56.0	57.0	57.0	58.0	56.0	54.0	54.0
145°	74.3	72.3	59.1	52.9	51.9	51.9	51.9	52.9	50.9	48.9	48.9
147.5°	70.3	68.2	54.0	47.9	46.8	46.8	46.8	46.8	45.8	43.8	42.8
150°	62.1	61.1	49.9	43.8	41.7	41.7	41.7	40.7	38.7	36.7	36.7
152.5°	52.9	51.9	43.8	38.7	36.7	36.7	35.6	35.6	33.6	32.6	31.6
155°	45.8	45.8	39.7	34.6	32.6	31.6	30.5	30.5	29.5	28.5	27.5
157.5°	40.7	39.7	35.6	31.6	27.5	27.5	26.5	26.5	25.5	24.4	23.4
160°	34.6	34.6	30.5	26.5	23.4	22.4	22.4	21.4	20.4	19.3	19.3
162.5°	27.5	27.5	24.4	21.4	18.3	18.3	17.3	17.3	16.3	15.3	14.3
165°	19.3	19.3	18.3	16.3	14.3	13.2	13.2	13.2	12.2	11.2	11.2
167.5°	13.2	13.2	12.2	11.2	10.2	9.2	10.2	10.2	9.2	8.1	8.1
170°	7.1	7.1	6.1	6.1	5.1	5.1	6.1	7.1	6.1	5.1	4.1
172.5°	3.1	3.1	3.1	3.1	2.0	3.1	4.1	5.1	4.1	3.1	3.1
175°	2.0	2.0	3.1	3.1	2.0	3.1	4.1	5.1	4.1	3.1	3.1
177.5°	2.0	2.0	3.1	3.1	2.0	3.1	4.1	5.1	4.1	3.1	3.1
180°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1

(END OF REPORT)