

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: P588459

Luminaire Tested: **ARC-CA6-50-750-U-33-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588459
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-CA6-50-750-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: 5327 lumens
Efficiency: N/A
Efficacy: 98.6 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): 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



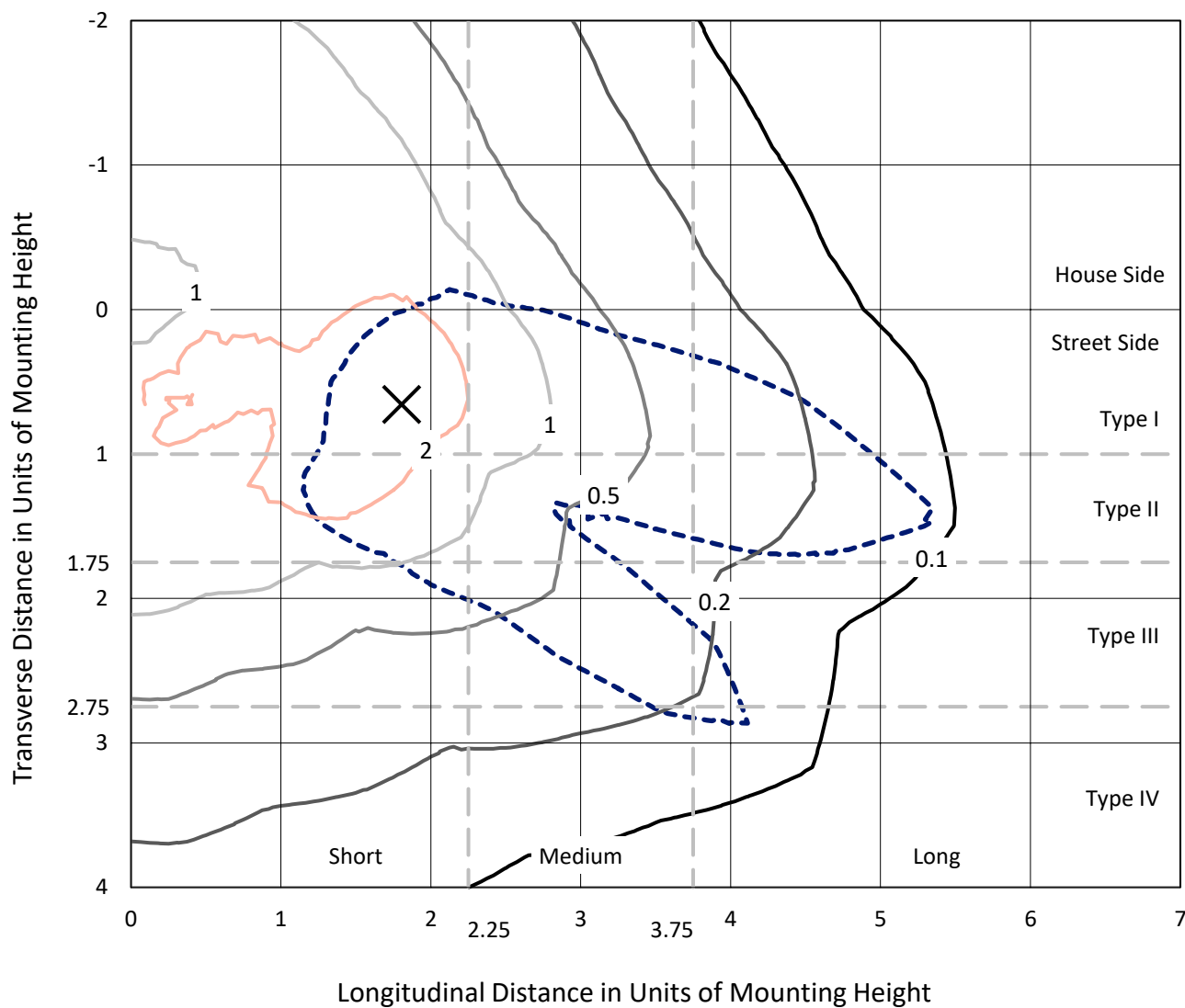
REPORT NUMBER: P588459

CATALOG NUMBER: ARC-CA6-50-750-U-33-6-5-X

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

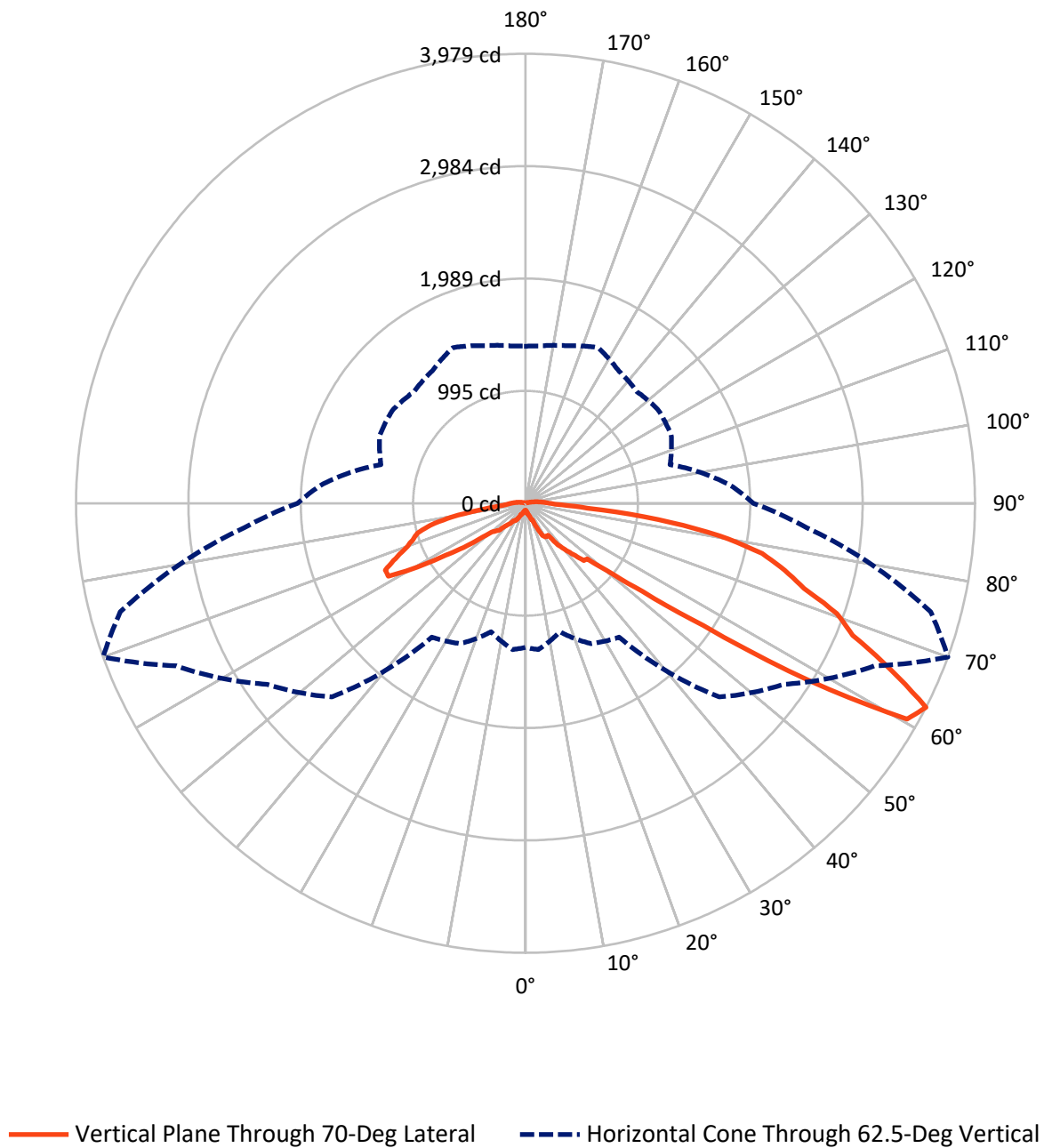


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P588459

CATALOG NUMBER: ARC-CA6-50-750-U-33-6-5-X

Luminous Intensity Polar Plot



REPORT NUMBER: P588459

CATALOG NUMBER: ARC-CA6-50-750-U-33-6-5-X

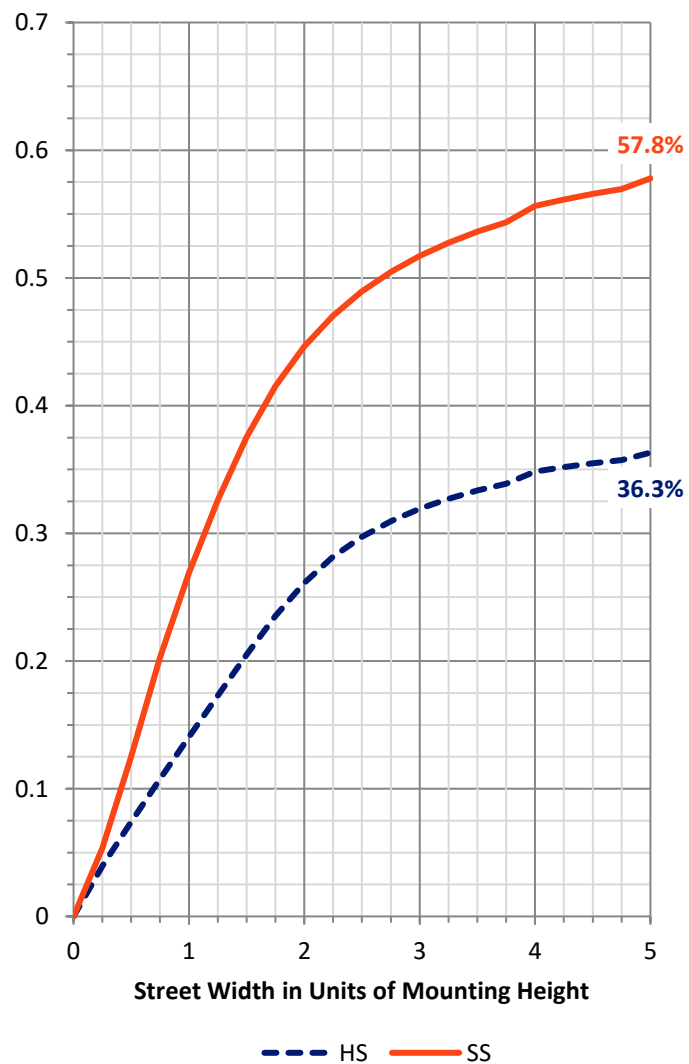
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1974.3	72.4	2046.7
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	3180.9	99.5	3280.3
	% Fixture	59.7	1.9	61.6
Total	Lumens	5155.2	171.8	5327.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	0.1
10°-20°	29.0	0.5
20°-30°	89.9	1.7
30°-40°	192.7	3.6
40°-50°	361.1	6.8
50°-60°	937.0	17.6
60°-70°	1716.4	32.2
70°-80°	1376.7	25.8
80°-90°	445.8	8.4
90°-100°	117.5	2.2
100°-110°	38.2	0.7
110°-120°	15.0	0.3
120°-130°	1.2	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°	5155.2	96.8
0°-180°	5327.0	100.0

Coefficient of Utilization



REPORT NUMBER: P588459

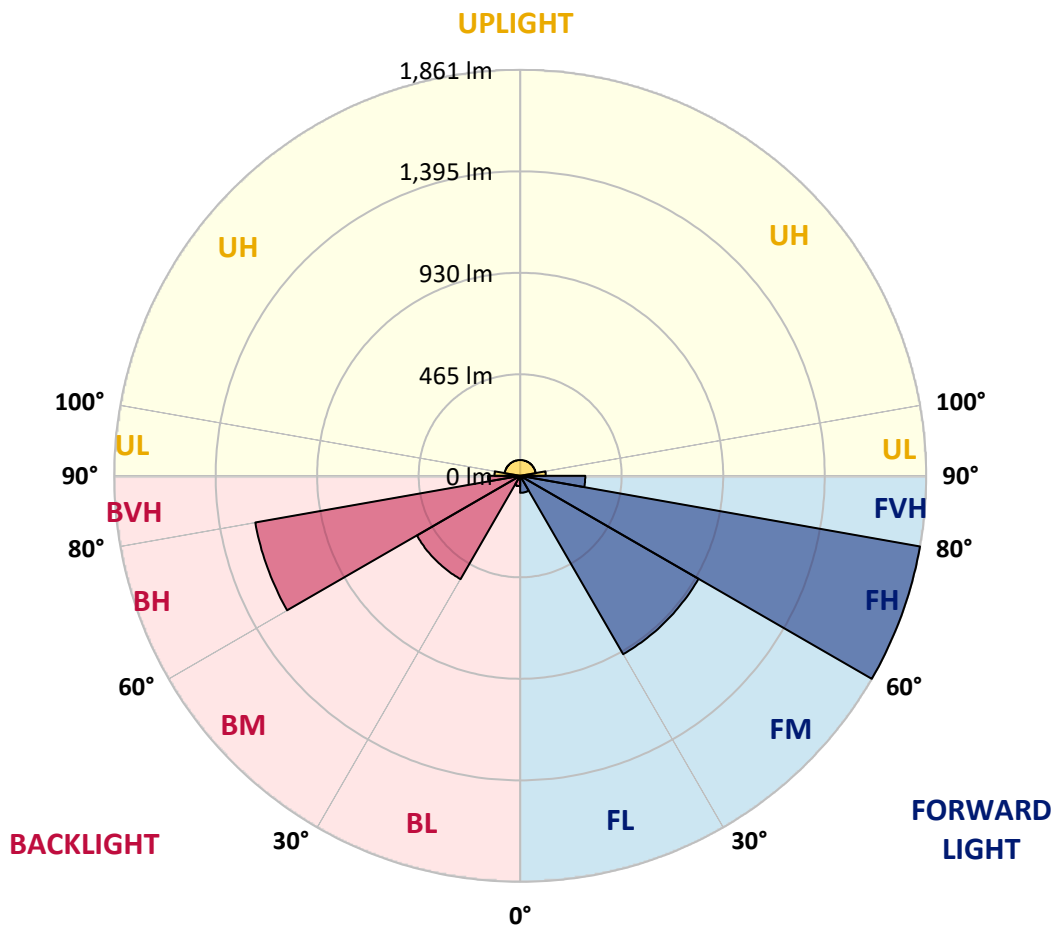
CATALOG NUMBER: ARC-CA6-50-750-U-33-6-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	78.2	1.5			
FM	(30°-60°)	943.9	17.7			
FH	(60°-80°)	1860.6	34.9			G2/5000
FVH	(80°-90°)	298.2	5.6			G3/500
BL	(0°-30°)	47.4	0.9	B0/110		
BM	(30°-60°)	546.9	10.3	B1/1000		
BH	(60°-80°)	1232.5	23.1	B3/2500		G3/2500
BVH	(80°-90°)	147.5	2.8			G2/225
UL	(90°-100°)	117.5	2.2		U3/500	
UH	(100°-180°)	72.4	1.4		U3/500	

BUG Rating: B3-U3-G3

Type III Short



REPORT NUMBER: P588459

CATALOG NUMBER: ARC-CA6-50-750-U-33-6-5-X

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
2.5°	68.2	68.2	68.2	67.2	66.2	65.2	64.2	64.2	63.1	62.1	61.1
5°	74.3	73.3	72.3	70.3	69.2	69.2	68.2	68.2	68.2	67.2	66.2
7.5°	82.5	82.5	81.5	80.4	79.4	78.4	77.4	76.4	76.4	75.4	74.3
10°	93.7	93.7	93.7	92.7	92.7	91.7	89.6	88.6	86.6	85.5	82.5
12.5°	104.9	105.9	103.9	103.9	103.9	102.9	100.8	99.8	97.8	95.7	91.7
15°	116.1	115.1	114.1	113.0	115.1	115.1	114.1	114.1	110.0	106.9	99.8
17.5°	126.3	126.3	127.3	127.3	130.3	129.3	129.3	128.3	126.3	121.2	112.0
20°	142.6	143.6	143.6	143.6	153.8	157.8	158.9	159.9	156.8	146.6	128.3
22.5°	158.9	159.9	167.0	165.0	165.0	165.0	175.2	170.1	156.8	144.6	134.4
25°	214.9	217.9	220.0	227.1	235.2	257.6	293.3	282.1	261.7	220.0	185.3
27.5°	268.8	272.9	309.6	360.5	367.6	341.1	366.6	333.0	322.8	280.0	251.5
30°	293.3	300.4	363.6	398.2	410.4	375.8	412.4	348.3	345.2	314.7	290.2
32.5°	299.4	304.5	373.7	377.8	380.9	376.8	431.8	353.4	346.2	315.7	280.0
35°	290.2	296.3	343.2	319.8	320.8	393.1	495.9	380.9	348.3	295.3	255.6
37.5°	357.4	357.4	397.2	403.3	429.7	517.3	649.7	503.1	466.4	384.9	336.1
40°	407.3	412.4	475.6	499.0	503.1	577.4	813.7	589.6	537.7	430.8	393.1
42.5°	474.6	473.5	531.6	547.9	559.1	586.6	832.0	678.2	617.1	487.8	459.3
45°	485.8	502.0	555.0	536.7	550.9	621.2	868.7	803.5	722.0	595.7	536.7
47.5°	440.9	463.4	570.3	555.0	498.0	530.6	696.6	824.9	735.3	612.0	570.3
50°	475.6	487.8	540.7	530.6	454.2	564.2	764.8	1033.6	933.8	728.1	621.2
52.5°	615.1	641.6	650.7	690.4	653.8	844.2	1070.3	1309.6	1296.4	1054.0	819.8
55°	790.2	828.9	869.7	1020.4	1041.8	1325.9	1493.9	1749.5	1908.4	1667.0	1257.7
57.5°	979.7	1034.6	1021.4	1240.4	1274.0	1796.4	1951.2	2550.0	2974.6	2646.7	1842.2
60°	1163.0	1199.6	1125.3	1317.7	1381.9	2261.8	2488.9	3320.8	3879.9	3530.6	2268.9
62.5°	1276.0	1299.4	1177.2	1370.7	1446.1	2423.7	2793.3	3407.4	3978.7	3712.9	2500.1
65°	1275.0	1268.9	1129.4	1297.4	1287.2	2237.3	2699.7	2863.6	3554.1	3509.2	2529.6
67.5°	1225.1	1227.1	1080.5	1213.9	1172.1	1972.5	2501.1	2422.7	3124.3	3184.4	2460.3
70°	1177.2	1201.7	1062.1	1178.2	1158.9	1897.2	2414.5	2180.3	2922.7	3036.7	2387.0
72.5°	1110.0	1133.4	1002.1	1103.9	1111.0	1746.5	2266.9	1903.3	2577.5	2714.9	2139.6
75°	1109.0	1138.5	1015.3	1104.9	1116.1	1660.9	2285.2	1807.6	2370.7	2555.0	1997.0
77.5°	1045.8	1072.3	958.3	1041.8	1073.3	1503.1	2180.3	1688.4	2141.6	2348.3	1810.6
80°	840.1	875.8	782.1	837.1	854.4	1127.3	1748.5	1382.9	1742.4	1949.1	1479.7
82.5°	574.4	606.9	544.8	585.6	608.0	739.3	1208.8	995.9	1184.3	1310.6	926.7
85°	332.0	370.7	334.0	328.9	340.1	390.0	650.7	529.5	550.9	579.4	411.4
87.5°	208.8	214.9	196.5	197.6	199.6	213.9	296.3	236.3	260.7	295.3	249.5
90°	166.0	172.1	158.9	159.9	156.8	170.1	222.0	180.2	200.6	231.2	197.6
92.5°	143.6	147.7	138.5	140.5	138.5	148.7	185.3	148.7	165.0	189.4	161.9
95°	122.2	125.3	120.2	121.2	115.1	121.2	144.6	113.0	125.3	142.6	121.2
97.5°	97.8	100.8	97.8	97.8	91.7	94.7	111.0	87.6	95.7	106.9	91.7
100°	77.4	78.4	77.4	76.4	71.3	71.3	77.4	63.1	66.2	73.3	63.1
102.5°	59.1	60.1	59.1	58.0	51.9	48.9	48.9	40.7	42.8	44.8	39.7
105°	46.8	47.9	46.8	44.8	39.7	36.7	35.6	29.5	29.5	30.6	27.5
107.5°	38.7	38.7	38.7	36.7	33.6	29.5	26.5	21.4	21.4	22.4	21.4
110°	31.6	31.6	30.6	29.5	26.5	23.4	20.4	17.3	17.3	17.3	16.3

REPORT NUMBER: P588459

CATALOG NUMBER: ARC-CA6-50-750-U-33-6-5-X

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	26.5	26.5	25.5	24.4	21.4	18.3	16.3	14.3	14.3	14.3	13.2
115°	22.4	22.4	21.4	20.4	18.3	15.3	13.2	11.2	11.2	11.2	11.2
117.5°	19.3	19.3	18.3	17.3	15.3	13.2	11.2	9.2	9.2	9.2	9.2
120°	17.3	16.3	15.3	14.3	12.2	11.2	9.2	8.1	8.1	8.1	7.1
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

REPORT NUMBER: P588459

CATALOG NUMBER: ARC-CA6-50-750-U-33-6-5-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
2.5°	61.1	61.1	60.1	60.1	60.1	59.1	59.1	60.1	60.1	60.1	60.1
5°	65.2	64.2	62.1	60.1	59.1	58.0	57.0	57.0	59.1	59.1	59.1
7.5°	73.3	72.3	69.2	67.2	65.2	63.1	62.1	61.1	62.1	63.1	63.1
10°	81.5	80.4	76.4	73.3	72.3	70.3	69.2	68.2	69.2	69.2	69.2
12.5°	89.6	87.6	84.5	80.4	78.4	77.4	76.4	75.4	75.4	75.4	75.4
15°	96.7	93.7	90.6	87.6	85.5	83.5	82.5	81.5	82.5	83.5	83.5
17.5°	107.9	104.9	97.8	92.7	91.7	89.6	88.6	88.6	89.6	90.6	90.6
20°	120.2	114.1	105.9	100.8	99.8	96.7	95.7	95.7	96.7	97.8	97.8
22.5°	130.3	126.3	114.1	106.9	105.9	104.9	105.9	105.9	106.9	107.9	107.9
25°	166.0	149.7	132.4	127.3	126.3	124.2	122.2	121.2	122.2	125.3	126.3
27.5°	224.0	194.5	161.9	150.7	150.7	152.8	156.8	158.9	154.8	152.8	153.8
30°	262.7	223.0	176.2	166.0	168.0	178.2	187.4	193.5	189.4	186.4	187.4
32.5°	252.6	215.9	182.3	180.2	186.4	194.5	199.6	202.7	210.8	213.9	217.9
35°	230.1	202.7	184.3	192.5	196.5	196.5	196.5	196.5	211.8	226.1	230.1
37.5°	281.1	234.2	218.9	222.0	218.9	215.9	218.9	227.1	240.3	251.5	254.6
40°	329.9	270.9	245.4	243.4	242.4	252.6	270.9	285.1	289.2	279.0	281.1
42.5°	383.9	306.5	273.9	277.0	285.1	301.4	321.8	321.8	321.8	312.6	315.7
45°	434.8	348.3	328.9	337.1	337.1	345.2	356.4	349.3	358.5	362.5	367.6
47.5°	494.9	404.3	361.5	354.4	355.4	371.7	375.8	372.7	378.8	371.7	371.7
50°	513.2	413.5	379.8	407.3	407.3	389.0	373.7	375.8	393.1	412.4	416.5
52.5°	652.8	512.2	481.7	510.2	522.4	490.8	490.8	494.9	499.0	513.2	517.3
55°	976.6	730.2	638.5	704.7	713.9	733.2	786.2	778.0	731.2	707.8	705.7
57.5°	1460.3	1083.5	795.3	889.0	948.1	1027.5	1067.2	1043.8	980.7	959.3	935.9
60°	1866.6	1483.7	1030.6	1193.5	1282.1	1295.3	1281.1	1283.1	1235.3	1250.5	1244.4
62.5°	2017.4	1820.8	1324.9	1423.7	1436.9	1396.2	1433.8	1520.4	1443.0	1397.2	1390.1
65°	2062.2	1946.1	1407.4	1343.2	1331.0	1323.9	1472.5	1617.1	1444.0	1337.1	1336.1
67.5°	2017.4	1817.8	1302.5	1196.6	1225.1	1283.1	1476.6	1530.6	1367.6	1249.5	1241.4
70°	1959.3	1611.0	1172.1	1080.5	1146.7	1231.2	1354.4	1333.0	1268.9	1164.0	1158.9
72.5°	1748.5	1396.2	1088.6	1012.2	1087.6	1112.0	1173.1	1164.0	1182.3	1116.1	1113.1
75°	1565.2	1282.1	1038.7	949.1	985.8	981.7	1030.6	1041.8	1093.7	1065.2	1054.0
77.5°	1350.3	1115.1	915.5	811.6	825.9	824.9	848.3	855.4	892.1	894.1	881.9
80°	1057.1	873.7	714.9	611.0	613.0	594.7	597.8	596.8	603.9	612.0	600.8
82.5°	606.9	487.8	405.3	339.1	324.9	300.4	295.3	297.4	294.3	292.3	292.3
85°	297.4	231.2	212.8	190.4	182.3	176.2	179.2	185.3	188.4	182.3	179.2
87.5°	200.6	173.1	165.0	155.8	151.7	145.6	149.7	154.8	158.9	153.8	152.8
90°	158.9	137.5	135.4	133.4	130.3	125.3	129.3	135.4	138.5	134.4	132.4
92.5°	128.3	111.0	111.0	110.0	106.9	102.9	107.9	113.0	116.1	113.0	112.0
95°	98.8	85.5	88.6	86.6	83.5	82.5	85.5	89.6	91.7	89.6	89.6
97.5°	76.4	67.2	70.3	69.2	65.2	64.2	66.2	69.2	71.3	69.2	68.2
100°	51.9	47.9	51.9	51.9	47.9	45.8	47.9	50.9	51.9	51.9	50.9
102.5°	34.6	32.6	37.7	38.7	36.7	34.6	35.6	37.7	38.7	38.7	38.7
105°	24.4	24.4	29.5	30.6	28.5	26.5	28.5	29.5	29.5	29.5	29.5
107.5°	19.3	20.4	23.4	25.5	23.4	21.4	22.4	23.4	23.4	23.4	24.4
110°	16.3	16.3	19.3	21.4	19.3	18.3	18.3	18.3	18.3	19.3	21.4

REPORT NUMBER: P588459

CATALOG NUMBER: ARC-CA6-50-750-U-33-6-5-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	13.2	14.3	16.3	17.3	16.3	15.3	15.3	15.3	15.3	16.3	19.3
115°	11.2	12.2	14.3	14.3	13.2	13.2	13.2	12.2	12.2	13.2	18.3
117.5°	9.2	10.2	11.2	11.2	11.2	10.2	10.2	10.2	10.2	12.2	19.3
120°	8.1	8.1	9.2	9.2	8.1	8.1	8.1	8.1	7.1	10.2	15.3
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)