

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: P588556

Luminaire Tested: **ARC-CA6-90-750-U-33-X-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588556
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-CA6-90-750-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: 13126 lumens
Efficiency: N/A
Efficacy: 139.8 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): 93.9
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



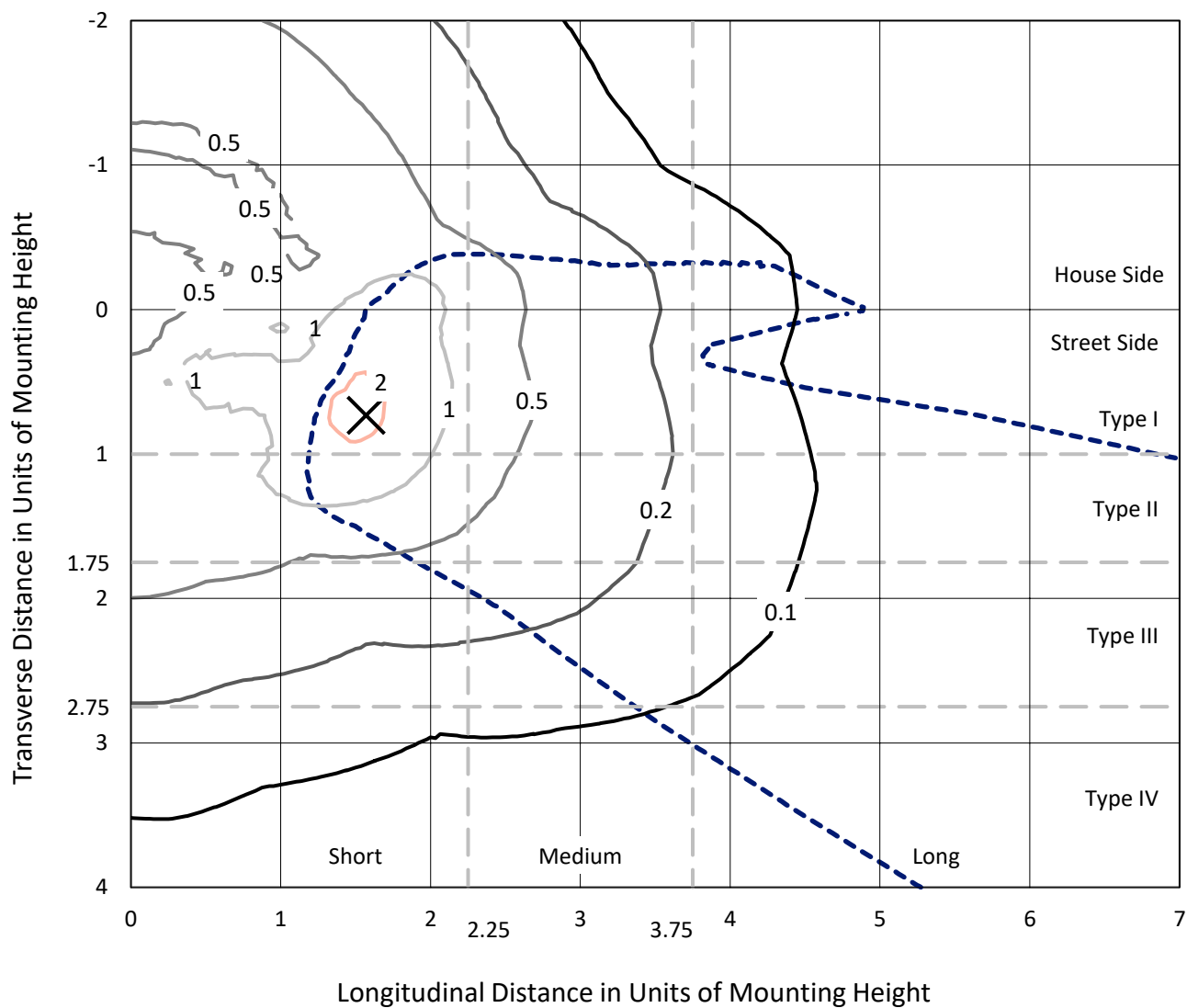
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

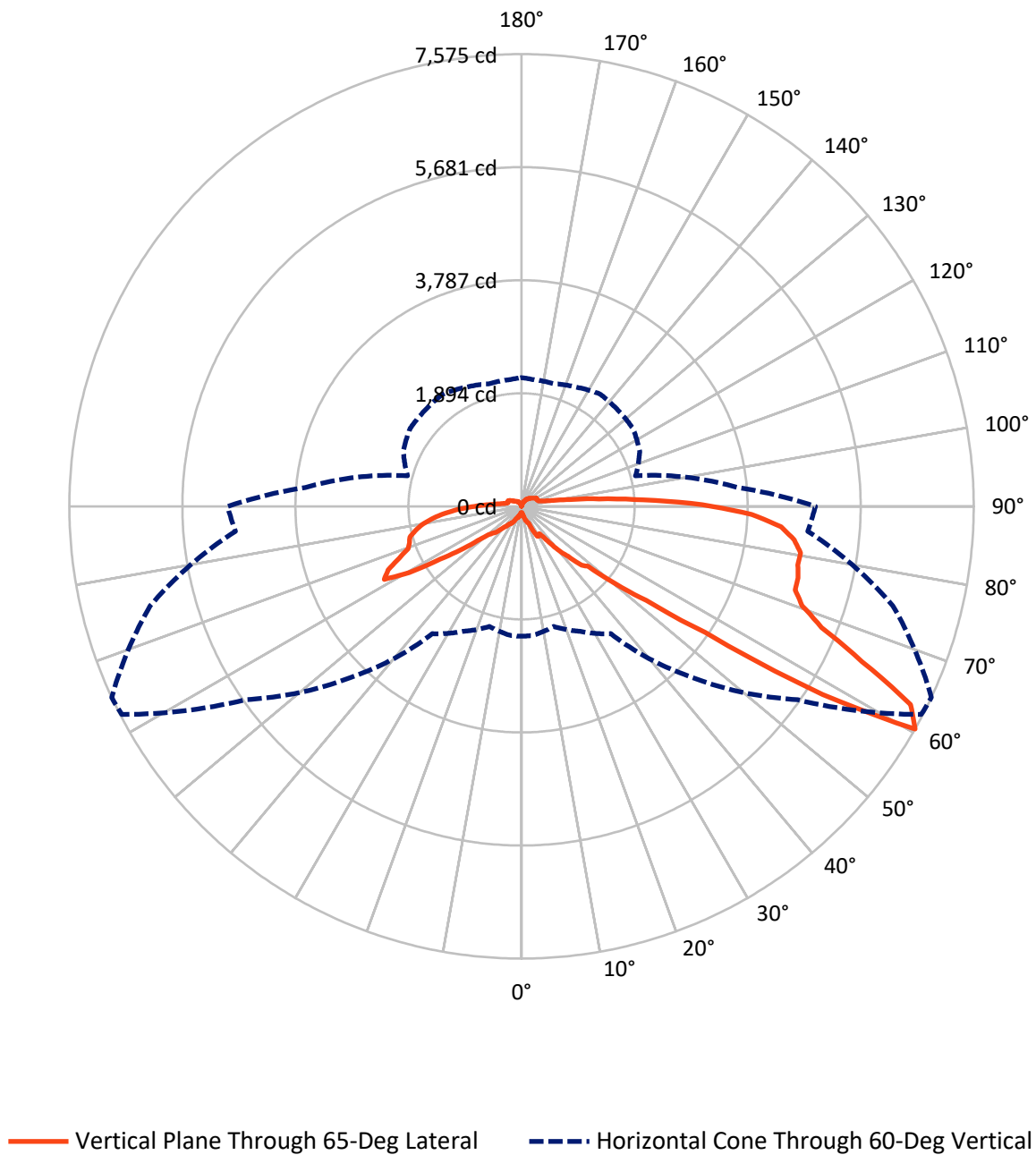


Based on 20 foot mounting height. Maximum calculated value = 2.4 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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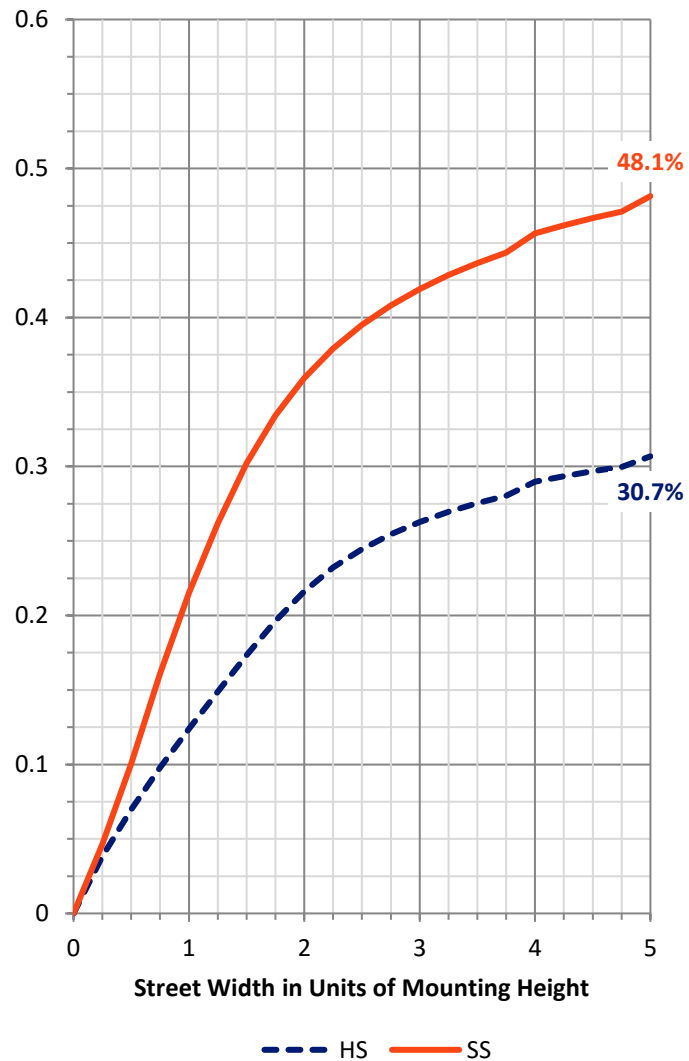
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4377.2	701.0	5078.2
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	7003.0	1044.8	8047.8
	% Fixture	53.4	8.0	61.3
Total	Lumens	11380.2	1745.8	13126.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.6	0.1
10°-20°	56.1	0.4
20°-30°	160.3	1.2
30°-40°	345.2	2.6
40°-50°	653.3	5.0
50°-60°	1825.0	13.9
60°-70°	3253.5	24.8
70°-80°	2848.5	21.7
80°-90°	2225.6	17.0
90°-100°	841.4	6.4
100°-110°	289.4	2.2
110°-120°	236.7	1.8
120°-130°	159.0	1.2
130°-140°	109.1	0.8
140°-150°	68.6	0.5
150°-160°	31.8	0.2
160°-170°	9.0	0.1
170°-180°	0.8	0.0
0°-90°	11380.2	86.7
0°-180°	13126.0	100.0

Coefficient of Utilization



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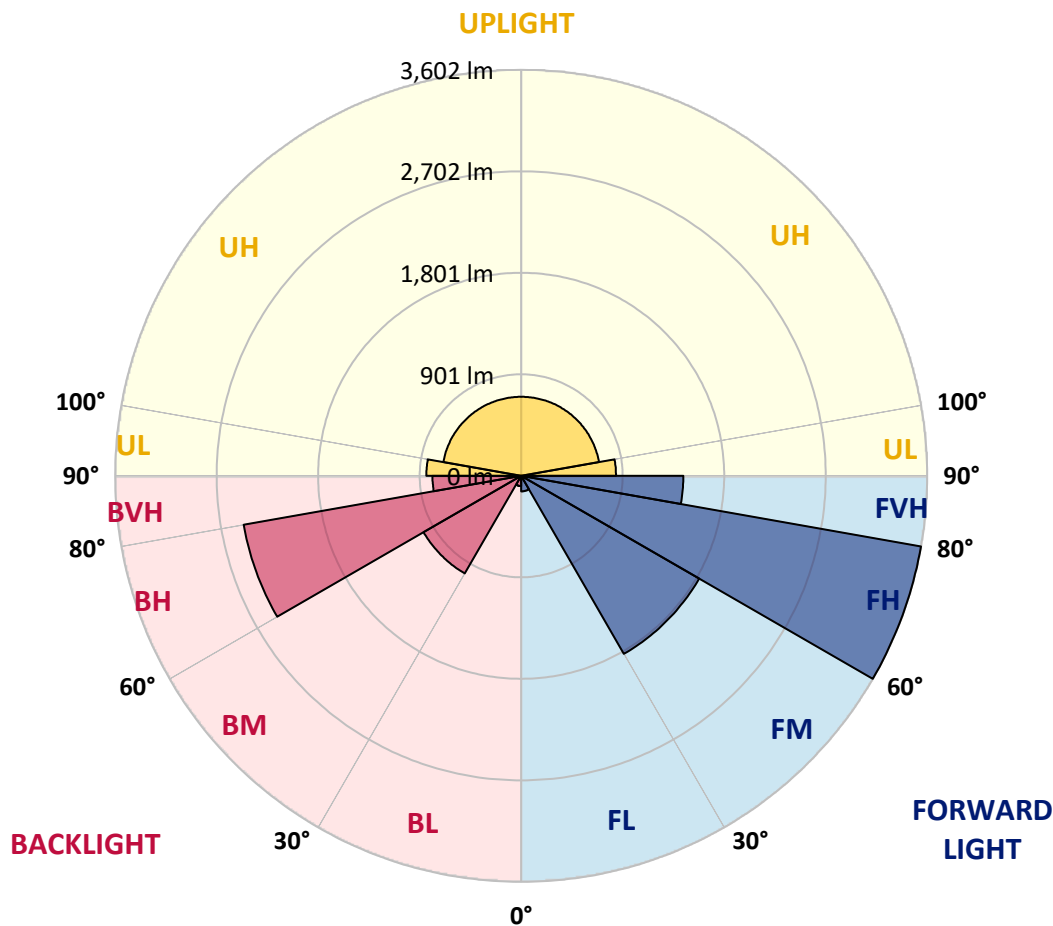
CATALOG NUMBER: ARC-CA6-90-750-U-33-X-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	138.3	1.1			
FM	(30°-60°)	1823.7	13.9			
FH	(60°-80°)	3602.4	27.4			G2/5000
FVH	(80°-90°)	1438.6	11.0			G5
BL	(0°-30°)	90.7	0.7	B0/110		
BM	(30°-60°)	999.8	7.6	B1/1000		
BH	(60°-80°)	2499.7	19.0	B3/2500		G3/2500
BVH	(80°-90°)	787.1	6.0			G5
UL	(90°-100°)	841.4	6.4		U4/1000	
UH	(100°-180°)	701.0	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°	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4
2.5°	115.7	112.3	108.9	108.9	107.2	105.5	105.5	102.1	103.8	102.1	102.1
5°	136.1	134.4	131.0	132.7	129.3	127.6	127.6	125.9	124.2	122.5	117.4
7.5°	158.3	158.3	160.0	161.7	156.6	151.5	149.8	146.4	146.4	144.7	141.2
10°	182.1	180.4	173.6	173.6	170.2	166.8	168.5	166.8	166.8	166.8	160.0
12.5°	188.9	187.2	182.1	182.1	182.1	180.4	187.2	185.5	187.2	185.5	175.3
15°	212.7	211.0	209.3	211.0	217.8	231.4	248.5	241.7	243.4	239.9	202.5
17.5°	222.9	228.0	231.4	233.1	239.9	239.9	243.4	241.7	248.5	253.6	231.4
20°	258.7	255.3	258.7	270.6	287.6	289.3	284.2	284.2	287.6	289.3	246.8
22.5°	274.0	272.3	285.9	275.7	275.7	284.2	314.8	304.6	304.6	301.2	265.5
25°	355.7	362.5	376.1	393.1	434.0	445.9	479.9	442.5	447.6	394.8	336.9
27.5°	427.1	432.2	512.2	583.7	616.0	599.0	628.0	558.2	565.0	571.8	491.8
30°	449.3	459.5	575.2	628.0	670.5	636.5	673.9	582.0	576.9	616.0	583.7
32.5°	432.2	442.5	565.0	587.1	631.4	757.3	709.6	561.6	546.3	565.0	604.1
35°	474.8	481.6	554.8	502.0	542.9	1058.5	929.2	655.2	624.5	520.7	578.6
37.5°	570.1	570.1	656.9	694.3	725.0	1249.1	1220.2	815.1	791.3	609.2	668.8
40°	690.9	687.5	794.7	820.3	833.9	1131.7	1475.4	1039.8	987.0	716.4	871.3
42.5°	764.1	757.3	844.1	871.3	871.3	958.1	1669.4	1266.1	1143.6	835.6	1065.3
45°	793.0	799.8	912.1	878.1	903.6	983.6	1877.0	1579.2	1407.4	980.2	1235.5
47.5°	718.1	728.4	890.0	893.4	764.1	786.2	1683.0	1640.5	1499.3	1050.0	1289.9
50°	881.5	888.3	946.2	907.0	844.1	995.5	2004.7	2108.5	2047.2	1300.1	1361.4
52.5°	1210.0	1240.6	1295.0	1329.1	1310.4	1672.8	2688.8	2670.1	2619.0	1951.9	1858.3
55°	1567.3	1592.9	1669.4	1875.3	2031.9	2505.0	3344.0	3735.4	3732.0	3170.4	2896.4
57.5°	1892.4	1894.1	1904.3	2157.8	2399.5	3270.8	4380.3	5818.3	5947.7	5064.5	4147.2
60°	2174.9	2169.8	2083.0	2309.3	2603.7	4055.3	5646.5	7549.0	7574.6	6439.5	4810.9
62.5°	2251.4	2236.1	2110.2	2321.2	2573.1	4070.6	5969.8	7343.1	7314.2	6536.5	4897.7
65°	2185.1	2169.8	2009.8	2198.7	2317.8	3699.6	5513.7	6315.3	6267.6	5971.5	4662.8
67.5°	2086.4	2096.6	1938.3	2083.0	2164.6	3469.9	5033.8	5433.7	5420.1	5564.8	4467.1
70°	1943.4	1951.9	1807.3	1986.0	2105.1	3323.5	4574.3	5008.3	4984.5	5197.2	4179.5
72.5°	1948.5	1974.0	1802.2	1936.6	2060.8	3122.7	4366.7	4861.9	4792.2	4824.5	3834.1
75°	1962.1	1996.2	1814.1	1934.9	2050.6	3049.6	4342.9	4873.9	4785.4	4690.1	3703.0
77.5°	1967.2	2016.6	1820.9	1953.6	2054.0	2949.2	4288.5	4814.3	4730.9	4560.7	3548.2
80°	1926.4	1979.2	1792.0	1955.3	2031.9	2750.1	4150.6	4804.1	4741.1	4543.7	3485.2
82.5°	1844.7	1897.5	1735.8	1870.2	1989.4	2547.5	3956.6	4605.0	4601.6	4380.3	3352.5
85°	1666.0	1723.9	1601.4	1725.6	1871.9	2278.7	3565.2	4266.3	4359.9	4181.2	3173.8
87.5°	1494.2	1552.0	1487.3	1557.1	1705.2	1980.9	3063.2	3682.6	3857.9	3709.8	2726.2
90°	1298.4	1358.0	1305.3	1278.0	1397.1	1580.9	2448.8	2864.1	3029.1	2938.9	2006.4
92.5°	1039.8	1090.8	1041.5	978.5	1050.0	1160.6	1819.2	2004.7	2043.8	1957.0	1315.5
95°	786.2	823.7	779.4	716.4	725.0	794.7	1254.2	1313.8	1303.6	1199.7	835.6
97.5°	546.3	568.4	539.5	495.2	510.5	554.8	830.5	823.7	823.7	733.5	546.3
100°	379.5	388.0	374.4	354.0	365.9	394.8	558.2	556.5	539.5	495.2	398.2
102.5°	301.2	302.9	289.3	275.7	268.9	296.1	403.3	401.6	405.0	384.6	311.4
105°	265.5	263.8	251.9	239.9	226.3	253.6	319.9	333.5	331.8	314.8	267.2
107.5°	243.4	241.7	229.7	219.5	207.6	231.4	277.4	296.1	294.4	292.7	251.9
110°	226.3	224.6	214.4	204.2	194.0	221.2	260.4	289.3	289.3	289.3	255.3

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CATALOG NUMBER: ARC-CA6-90-750-U-33-X-5-X

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	214.4	214.4	205.9	197.4	188.9	219.5	250.2	284.2	284.2	292.7	267.2
115°	207.6	205.9	199.1	194.0	187.2	221.2	246.8	280.8	282.5	294.4	265.5
117.5°	202.5	200.8	195.7	188.9	185.5	217.8	248.5	287.6	285.9	304.6	260.4
120°	194.0	190.6	183.8	177.0	173.6	200.8	241.7	279.1	275.7	284.2	239.9
122.5°	187.2	177.0	165.1	160.0	160.0	182.1	226.3	251.9	248.5	241.7	216.1
125°	171.9	161.7	151.5	149.8	151.5	170.2	216.1	231.4	233.1	228.0	204.2
127.5°	154.9	148.1	142.9	142.9	146.4	166.8	212.7	222.9	222.9	212.7	194.0
130°	146.4	144.7	141.2	141.2	148.1	168.5	207.6	211.0	211.0	197.4	188.9
132.5°	142.9	139.5	136.1	136.1	142.9	163.4	194.0	200.8	199.1	185.5	178.7
135°	136.1	134.4	131.0	131.0	139.5	160.0	182.1	188.9	187.2	170.2	165.1
137.5°	132.7	129.3	129.3	129.3	137.8	158.3	171.9	177.0	175.3	158.3	153.2
140°	127.6	125.9	122.5	122.5	134.4	153.2	161.7	163.4	161.7	148.1	142.9
142.5°	119.1	117.4	115.7	119.1	131.0	144.7	151.5	151.5	149.8	141.2	134.4
145°	114.0	112.3	110.6	119.1	129.3	136.1	142.9	137.8	137.8	132.7	125.9
147.5°	108.9	107.2	107.2	114.0	122.5	122.5	127.6	125.9	127.6	125.9	119.1
150°	98.7	97.0	97.0	102.1	103.8	103.8	108.9	108.9	108.9	108.9	103.8
152.5°	86.8	85.1	86.8	88.5	88.5	88.5	91.9	93.6	93.6	91.9	90.2
155°	74.9	74.9	74.9	76.6	76.6	74.9	80.0	80.0	80.0	80.0	78.3
157.5°	66.4	66.4	66.4	66.4	66.4	64.7	68.1	68.1	69.8	68.1	68.1
160°	57.9	56.2	56.2	56.2	56.2	54.5	56.2	56.2	56.2	57.9	57.9
162.5°	45.9	44.2	44.2	44.2	44.2	40.8	44.2	42.5	44.2	44.2	45.9
165°	37.4	35.7	35.7	35.7	34.0	32.3	34.0	32.3	32.3	32.3	34.0
167.5°	28.9	28.9	27.2	28.9	27.2	23.8	23.8	22.1	22.1	22.1	22.1
170°	22.1	20.4	18.7	20.4	18.7	15.3	15.3	13.6	13.6	11.9	11.9
172.5°	15.3	13.6	11.9	13.6	11.9	8.5	8.5	5.1	5.1	5.1	5.1
175°	13.6	11.9	10.2	11.9	10.2	6.8	5.1	3.4	3.4	3.4	3.4
177.5°	13.6	11.9	10.2	11.9	10.2	6.8	5.1	3.4	3.4	3.4	3.4
180°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4
2.5°	102.1	100.4	98.7	102.1	100.4	102.1	103.8	105.5	105.5	103.8	103.8
5°	117.4	115.7	112.3	110.6	107.2	107.2	107.2	110.6	110.6	108.9	110.6
7.5°	139.5	136.1	131.0	127.6	122.5	122.5	120.8	124.2	125.9	122.5	124.2
10°	156.6	154.9	148.1	142.9	137.8	136.1	136.1	137.8	137.8	136.1	136.1
12.5°	171.9	168.5	161.7	156.6	149.8	148.1	148.1	149.8	149.8	148.1	148.1
15°	194.0	183.8	177.0	171.9	165.1	163.4	161.7	163.4	165.1	161.7	161.7
17.5°	224.6	212.7	197.4	183.8	177.0	180.4	182.1	183.8	182.1	177.0	177.0
20°	241.7	234.8	214.4	204.2	195.7	195.7	195.7	195.7	195.7	194.0	195.7
22.5°	253.6	243.4	217.8	211.0	205.9	209.3	212.7	214.4	214.4	212.7	212.7
25°	308.0	270.6	245.1	239.9	233.1	234.8	231.4	231.4	233.1	231.4	234.8
27.5°	423.7	362.5	304.6	284.2	279.1	279.1	282.5	282.5	282.5	282.5	280.8
30°	508.8	437.4	342.1	314.8	311.4	326.7	335.2	342.1	338.7	333.5	333.5
32.5°	522.4	444.2	348.9	338.7	347.2	359.1	367.6	372.7	377.8	376.1	374.4
35°	493.5	410.1	343.8	357.4	364.2	371.0	372.7	369.3	384.6	391.4	393.1
37.5°	551.4	459.5	399.9	410.1	401.6	394.8	398.2	399.9	420.3	430.5	440.8
40°	704.5	554.8	454.4	449.3	444.2	459.5	479.9	490.1	488.4	481.6	483.3
42.5°	852.6	648.4	512.2	510.5	508.8	536.1	568.4	566.7	551.4	539.5	539.5
45°	1004.0	738.6	604.1	605.8	602.4	612.6	621.1	614.3	616.0	619.4	622.8
47.5°	1097.6	820.3	662.0	656.9	634.8	655.2	679.0	663.7	658.6	650.1	653.5
50°	1119.8	840.7	696.0	733.5	713.0	697.7	672.2	662.0	680.7	694.3	704.5
52.5°	1455.0	1038.1	869.6	929.2	901.9	847.5	842.4	825.4	845.8	847.5	859.4
55°	2438.6	1664.3	1198.0	1255.9	1257.6	1238.9	1324.0	1276.3	1233.8	1215.1	1208.3
57.5°	3844.3	2573.1	1550.3	1623.5	1693.3	1759.6	1875.3	1778.3	1655.8	1640.5	1657.5
60°	4923.2	3633.3	1977.5	2183.4	2277.0	2280.4	2295.7	2200.4	2125.5	2132.3	2156.1
62.5°	5154.6	4518.2	2518.6	2603.7	2612.2	2549.2	2576.5	2637.7	2532.2	2448.8	2471.0
65°	4999.8	4868.8	2695.6	2474.4	2460.8	2471.0	2656.5	2826.6	2613.9	2402.9	2402.9
67.5°	4700.3	4601.6	2515.2	2225.9	2263.3	2379.1	2613.9	2699.0	2472.7	2248.0	2248.0
70°	4380.3	4182.9	2312.7	2028.5	2120.4	2254.8	2408.0	2414.8	2282.1	2122.1	2111.9
72.5°	4034.9	3856.2	2225.9	1970.6	2013.2	2037.0	2120.4	2173.2	2157.8	2054.0	2052.3
75°	3932.8	3788.1	2224.2	1943.4	1917.9	1909.4	1967.2	2081.3	2134.0	2072.8	2076.2
77.5°	3777.9	3691.1	2120.4	1829.4	1802.2	1802.2	1832.8	1924.7	2004.7	1979.2	1987.7
80°	3670.7	3539.7	1962.1	1705.2	1667.7	1672.8	1676.2	1739.2	1814.1	1817.5	1817.5
82.5°	3464.8	3218.0	1722.2	1519.7	1494.2	1501.0	1489.0	1524.8	1545.2	1570.7	1565.6
85°	3126.1	2777.3	1455.0	1317.2	1276.3	1262.7	1252.5	1254.2	1266.1	1261.0	1240.6
87.5°	2619.0	2202.1	1160.6	1080.6	1033.0	998.9	985.3	968.3	966.6	947.9	954.7
90°	1933.2	1511.2	861.1	832.2	798.1	762.4	743.7	726.7	713.0	694.3	687.5
92.5°	1261.0	973.4	629.7	614.3	592.2	571.8	563.3	554.8	551.4	536.1	541.2
95°	787.9	658.6	473.1	456.1	444.2	439.1	440.8	442.5	439.1	422.0	427.1
97.5°	525.8	476.5	369.3	357.4	345.5	343.8	345.5	348.9	350.6	338.7	342.1
100°	388.0	365.9	302.9	294.4	284.2	280.8	282.5	285.9	287.6	277.4	279.1
102.5°	308.0	297.8	262.1	258.7	246.8	243.4	246.8	248.5	250.2	243.4	243.4
105°	270.6	270.6	241.7	239.9	231.4	228.0	229.7	231.4	233.1	226.3	226.3
107.5°	260.4	262.1	233.1	234.8	229.7	228.0	231.4	234.8	233.1	228.0	226.3
110°	268.9	272.3	233.1	238.2	239.9	243.4	250.2	251.9	251.9	248.5	250.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	277.4	282.5	229.7	241.7	253.6	262.1	274.0	280.8	277.4	275.7	277.4
115°	270.6	274.0	214.4	233.1	255.3	267.2	270.6	270.6	262.1	262.1	263.8
117.5°	262.1	268.9	199.1	214.4	229.7	239.9	238.2	233.1	222.9	219.5	229.7
120°	243.4	263.8	190.6	194.0	195.7	199.1	194.0	188.9	180.4	178.7	185.5
122.5°	224.6	243.4	175.3	171.9	170.2	170.2	168.5	166.8	161.7	163.4	170.2
125°	209.3	219.5	160.0	154.9	153.2	154.9	154.9	154.9	151.5	148.1	148.1
127.5°	197.4	200.8	151.5	144.7	142.9	142.9	142.9	144.7	142.9	137.8	137.8
130°	190.6	188.9	146.4	134.4	132.7	134.4	134.4	136.1	132.7	129.3	129.3
132.5°	177.0	173.6	139.5	127.6	125.9	127.6	127.6	127.6	124.2	120.8	120.8
135°	161.7	158.3	131.0	119.1	117.4	119.1	119.1	120.8	117.4	114.0	114.0
137.5°	149.8	146.4	122.5	112.3	110.6	110.6	112.3	112.3	110.6	107.2	107.2
140°	139.5	136.1	114.0	105.5	102.1	103.8	103.8	103.8	102.1	98.7	98.7
142.5°	131.0	129.3	105.5	97.0	93.6	95.3	95.3	97.0	93.6	90.2	90.2
145°	124.2	120.8	98.7	88.5	86.8	86.8	86.8	88.5	85.1	81.7	81.7
147.5°	117.4	114.0	90.2	80.0	78.3	78.3	78.3	78.3	76.6	73.2	71.5
150°	103.8	102.1	83.4	73.2	69.8	69.8	69.8	68.1	64.7	61.3	61.3
152.5°	88.5	86.8	73.2	64.7	61.3	61.3	59.6	59.6	56.2	54.5	52.8
155°	76.6	76.6	66.4	57.9	54.5	52.8	51.1	51.1	49.4	47.6	45.9
157.5°	68.1	66.4	59.6	52.8	45.9	45.9	44.2	44.2	42.5	40.8	39.1
160°	57.9	57.9	51.1	44.2	39.1	37.4	37.4	35.7	34.0	32.3	32.3
162.5°	45.9	45.9	40.8	35.7	30.6	30.6	28.9	28.9	27.2	25.5	23.8
165°	32.3	32.3	30.6	27.2	23.8	22.1	22.1	22.1	20.4	18.7	18.7
167.5°	22.1	22.1	20.4	18.7	17.0	15.3	17.0	17.0	15.3	13.6	13.6
170°	11.9	11.9	10.2	10.2	8.5	8.5	10.2	11.9	10.2	8.5	6.8
172.5°	5.1	5.1	5.1	5.1	3.4	5.1	6.8	8.5	6.8	5.1	5.1
175°	3.4	3.4	5.1	5.1	3.4	5.1	6.8	8.5	6.8	5.1	5.1
177.5°	3.4	3.4	5.1	5.1	3.4	5.1	6.8	8.5	6.8	5.1	5.1
180°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8

(END OF REPORT)