

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: P588504

Luminaire Tested: **ARC-CA6-70-740-U-33-X-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588504
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-CA6-70-740-U-33-X-5-X
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR
Light Source: (6) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10347 lumens
Efficiency: N/A
Efficacy: 140.0 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



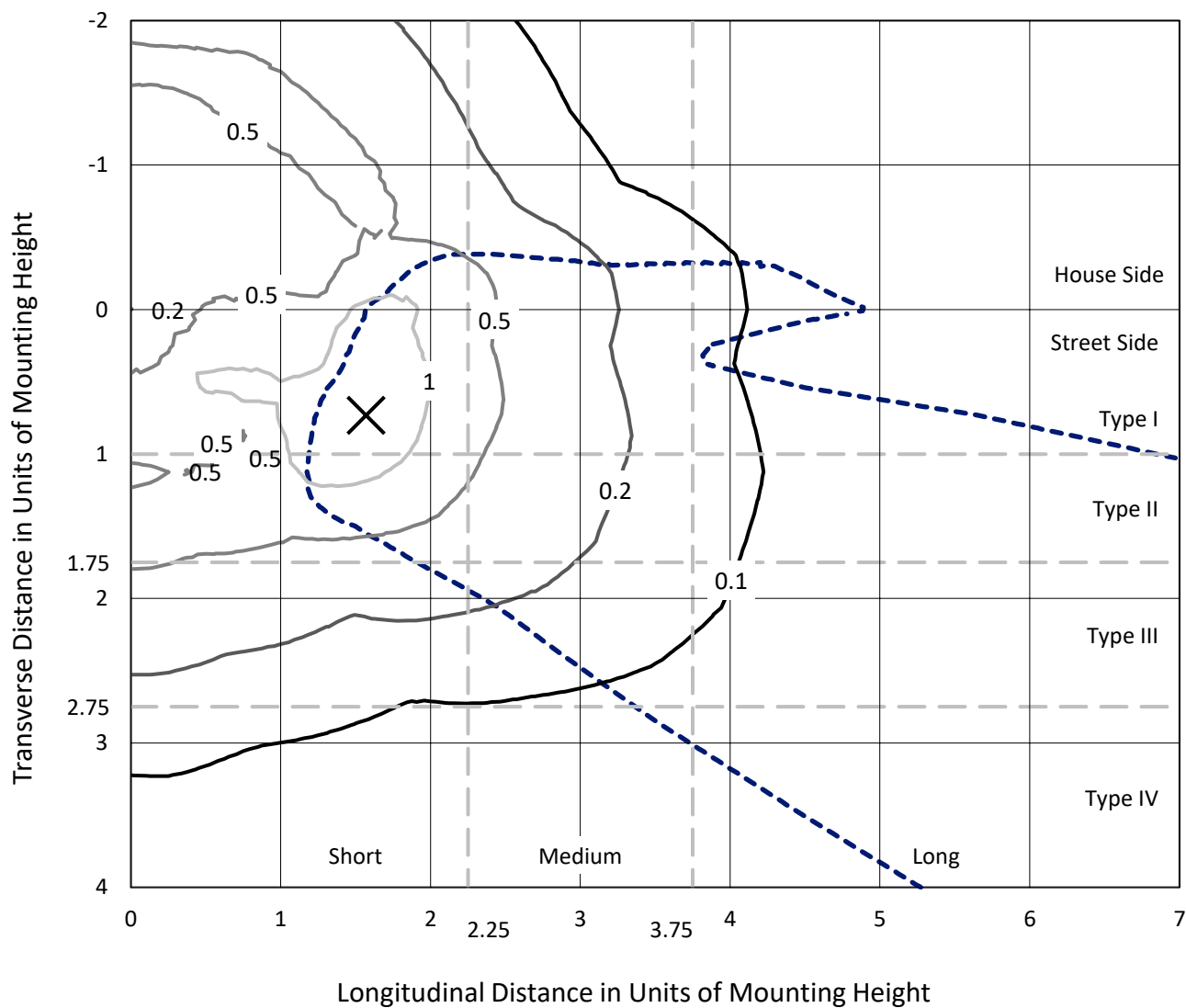
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

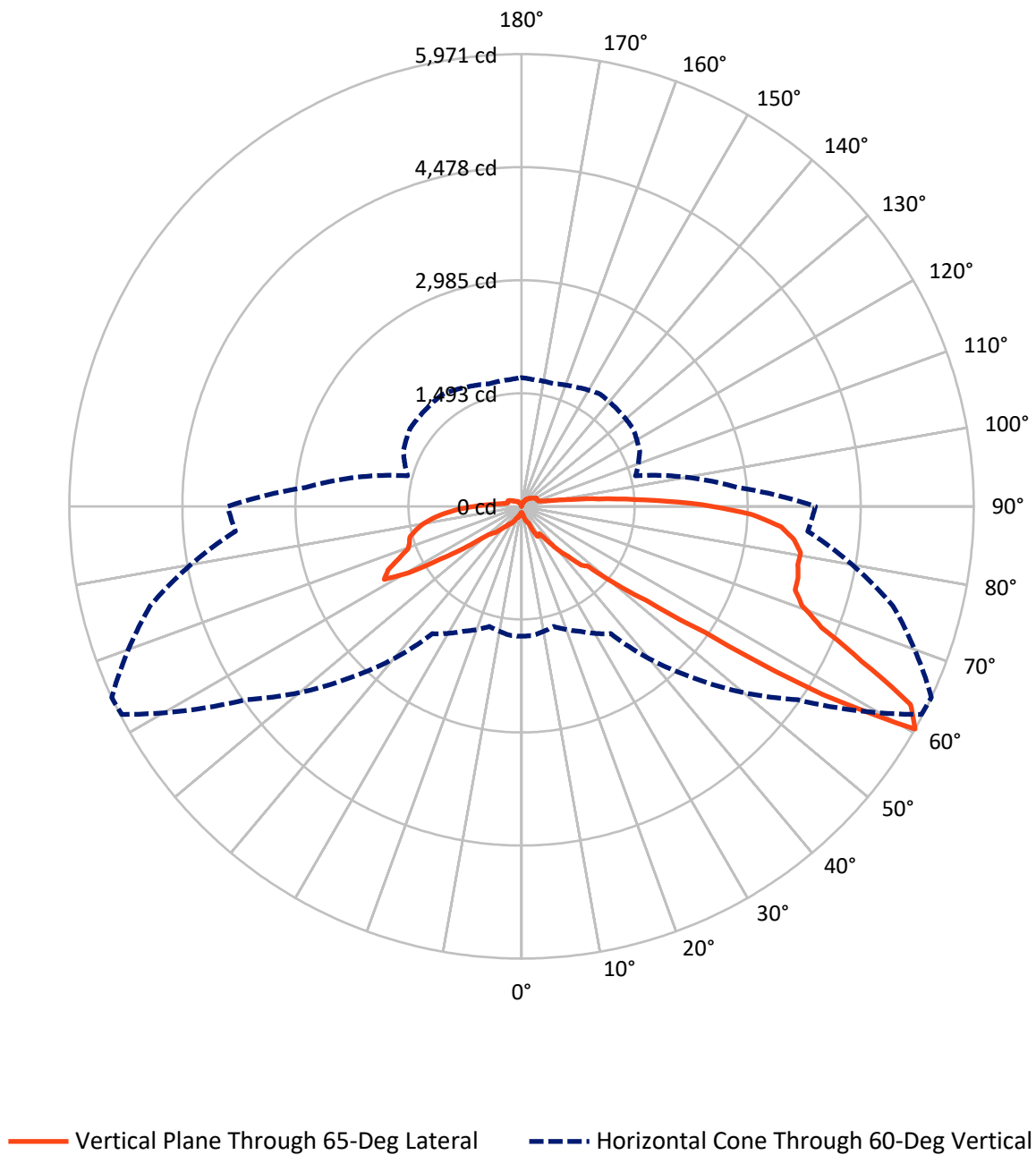


Based on 20 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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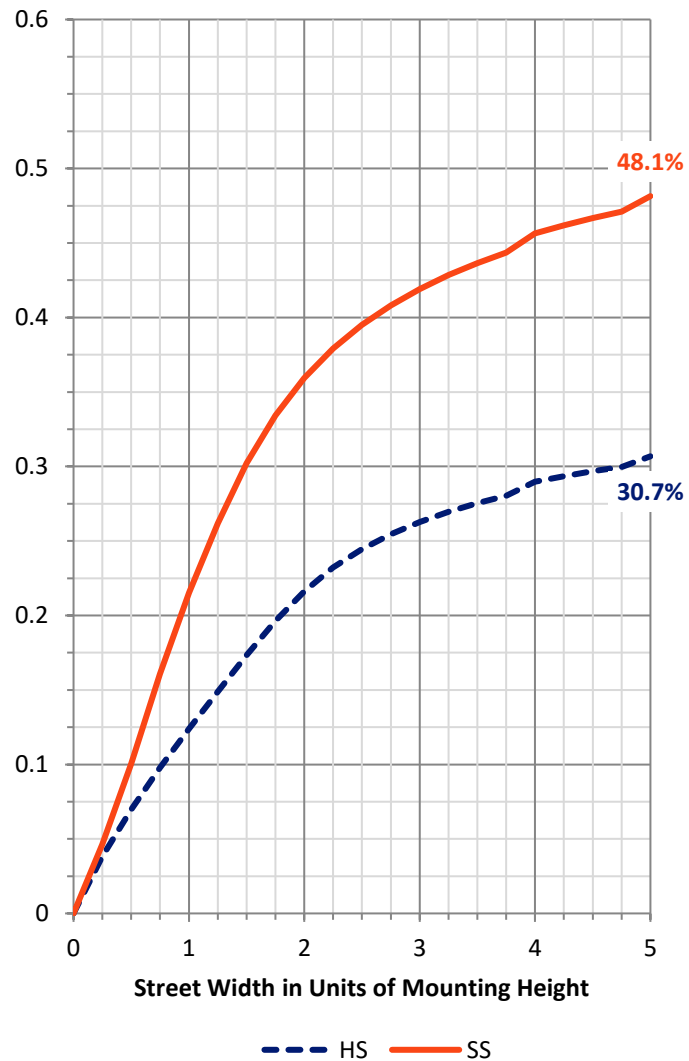
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3450.5	552.6	4003.0
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	5520.3	823.6	6344.0
	% Fixture	53.4	8.0	61.3
Total	Lumens	8970.8	1376.2	10347.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.9	0.1
10°-20°	44.2	0.4
20°-30°	126.4	1.2
30°-40°	272.1	2.6
40°-50°	515.0	5.0
50°-60°	1438.6	13.9
60°-70°	2564.7	24.8
70°-80°	2245.4	21.7
80°-90°	1754.4	17.0
90°-100°	663.3	6.4
100°-110°	228.1	2.2
110°-120°	186.5	1.8
120°-130°	125.3	1.2
130°-140°	86.0	0.8
140°-150°	54.1	0.5
150°-160°	25.1	0.2
160°-170°	7.1	0.1
170°-180°	0.6	0.0
0°-90°	8970.8	86.7
0°-180°	10347.0	100.0

Coefficient of Utilization



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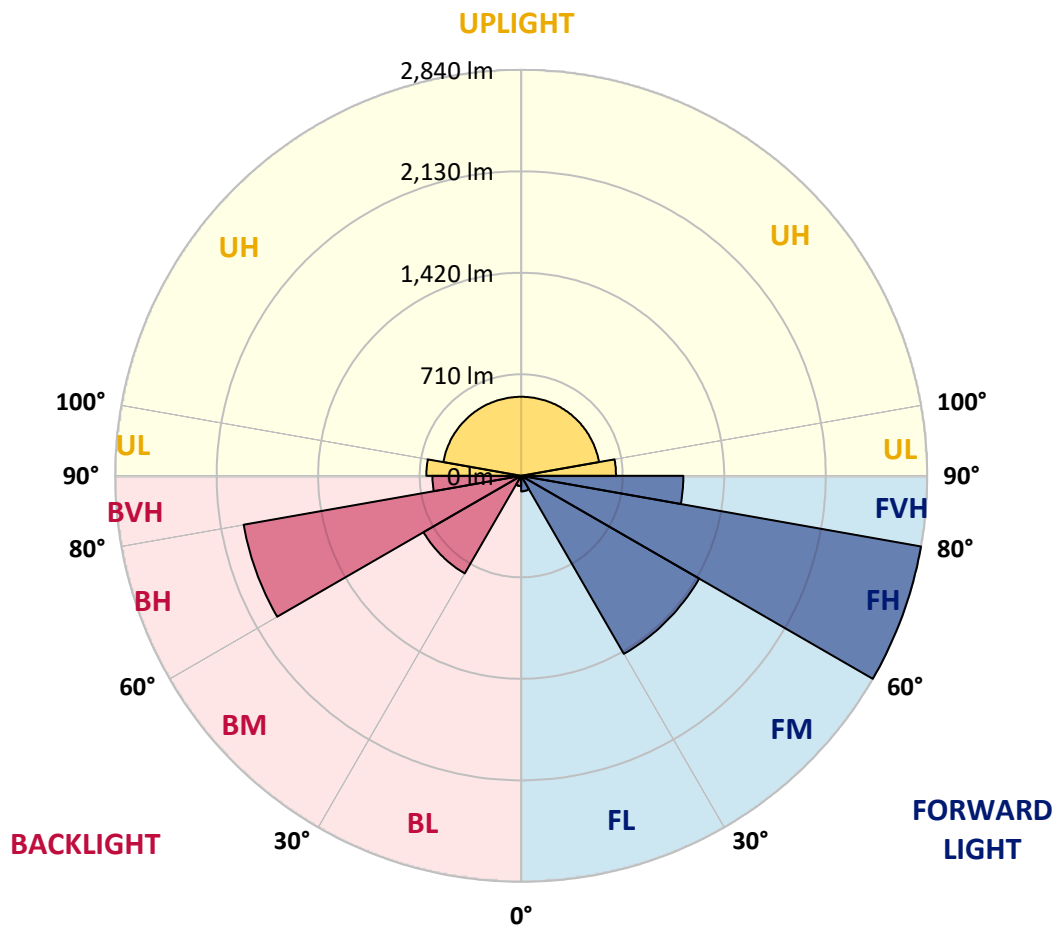
CATALOG NUMBER: ARC-CA6-70-740-U-33-X-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	109.0	1.1			
FM	(30°-60°)	1437.6	13.9			
FH	(60°-80°)	2839.7	27.4			G2/5000
FVH	(80°-90°)	1134.0	11.0			G5
BL	(0°-30°)	71.5	0.7	B0/110		
BM	(30°-60°)	788.1	7.6	B1/1000		
BH	(60°-80°)	1970.5	19.0	B3/2500		G3/2500
BVH	(80°-90°)	620.4	6.0			G4/750
UL	(90°-100°)	663.3	6.4		U4/1000	
UH	(100°-180°)	552.6	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°	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
2.5°	91.2	88.5	85.9	85.9	84.5	83.2	83.2	80.5	81.8	80.5	80.5
5°	107.3	106.0	103.3	104.6	102.0	100.6	100.6	99.3	97.9	96.6	92.6
7.5°	124.8	124.8	126.1	127.4	123.4	119.4	118.0	115.4	115.4	114.0	111.3
10°	143.5	142.2	136.8	136.8	134.1	131.5	132.8	131.5	131.5	131.5	126.1
12.5°	148.9	147.6	143.5	143.5	143.5	142.2	147.6	146.2	147.6	146.2	138.2
15°	167.7	166.3	165.0	166.3	171.7	182.4	195.9	190.5	191.8	189.1	159.6
17.5°	175.7	179.8	182.4	183.8	189.1	189.1	191.8	190.5	195.9	199.9	182.4
20°	203.9	201.2	203.9	213.3	226.7	228.1	224.0	224.0	226.7	228.1	194.5
22.5°	216.0	214.6	225.4	217.3	217.3	224.0	248.2	240.1	240.1	237.4	209.3
25°	280.4	285.7	296.5	309.9	342.1	351.5	378.3	348.8	352.8	311.2	265.6
27.5°	336.7	340.7	403.8	460.1	485.6	472.2	495.0	440.0	445.4	450.7	387.7
30°	354.1	362.2	453.4	495.0	528.5	501.7	531.2	458.8	454.8	485.6	460.1
32.5°	340.7	348.8	445.4	462.8	497.7	597.0	559.4	442.7	430.6	445.4	476.2
35°	374.3	379.6	437.3	395.7	427.9	834.4	732.4	516.5	492.3	410.5	456.1
37.5°	449.4	449.4	517.8	547.3	571.5	984.6	961.8	642.6	623.8	480.2	527.2
40°	544.6	542.0	626.5	646.6	657.3	892.1	1163.1	819.6	778.1	564.8	686.8
42.5°	602.3	597.0	665.4	686.8	686.8	755.2	1316.0	998.1	901.5	658.7	839.8
45°	625.1	630.5	719.0	692.2	712.3	775.4	1479.6	1244.9	1109.4	772.7	973.9
47.5°	566.1	574.2	701.6	704.3	602.3	619.8	1326.7	1293.2	1181.8	827.7	1016.8
50°	694.9	700.2	745.9	715.0	665.4	784.8	1580.3	1662.1	1613.8	1024.9	1073.2
52.5°	953.8	977.9	1020.9	1047.7	1032.9	1318.7	2119.5	2104.8	2064.5	1538.7	1464.9
55°	1235.5	1255.6	1316.0	1478.3	1601.7	1974.6	2636.0	2944.5	2941.8	2499.2	2283.2
57.5°	1491.7	1493.1	1501.1	1701.0	1891.5	2578.3	3453.0	4586.5	4688.4	3992.2	3269.2
60°	1714.4	1710.4	1642.0	1820.4	2052.5	3196.7	4451.0	5950.8	5970.9	5076.1	3792.3
62.5°	1774.8	1762.7	1663.4	1829.8	2028.3	3208.8	4705.9	5788.5	5765.7	5152.6	3860.8
65°	1722.5	1710.4	1584.3	1733.2	1827.1	2916.4	4346.4	4978.2	4940.6	4707.2	3675.6
67.5°	1644.6	1652.7	1527.9	1642.0	1706.4	2735.3	3968.1	4283.3	4272.6	4386.6	3521.4
70°	1532.0	1538.7	1424.6	1565.5	1659.4	2619.9	3605.9	3948.0	3929.2	4096.9	3294.7
72.5°	1536.0	1556.1	1420.6	1526.6	1624.5	2461.6	3442.2	3832.6	3777.6	3803.1	3022.3
75°	1546.7	1573.5	1430.0	1525.3	1616.5	2403.9	3423.4	3842.0	3772.2	3697.1	2919.0
77.5°	1550.7	1589.6	1435.4	1540.0	1619.2	2324.8	3380.5	3795.0	3729.3	3595.1	2797.0
80°	1518.5	1560.1	1412.6	1541.4	1601.7	2167.8	3271.9	3787.0	3737.3	3581.7	2747.3
82.5°	1454.2	1495.7	1368.3	1474.3	1568.2	2008.2	3118.9	3630.0	3627.3	3453.0	2642.7
85°	1313.3	1358.9	1262.3	1360.3	1475.6	1796.2	2810.4	3363.1	3436.9	3296.0	2501.8
87.5°	1177.8	1223.4	1172.4	1227.4	1344.2	1561.5	2414.7	2902.9	3041.1	2924.4	2149.0
90°	1023.5	1070.5	1028.9	1007.4	1101.3	1246.2	1930.4	2257.7	2387.8	2316.7	1581.6
92.5°	819.6	859.9	821.0	771.3	827.7	914.9	1434.0	1580.3	1611.1	1542.7	1037.0
95°	619.8	649.3	614.4	564.8	571.5	626.5	988.7	1035.6	1027.6	945.7	658.7
97.5°	430.6	448.1	425.2	390.4	402.4	437.3	654.6	649.3	649.3	578.2	430.6
100°	299.1	305.9	295.1	279.0	288.4	311.2	440.0	438.7	425.2	390.4	313.9
102.5°	237.4	238.8	228.1	217.3	212.0	233.4	317.9	316.6	319.3	303.2	245.5
105°	209.3	207.9	198.5	189.1	178.4	199.9	252.2	262.9	261.6	248.2	210.6
107.5°	191.8	190.5	181.1	173.0	163.7	182.4	218.7	233.4	232.1	230.7	198.5
110°	178.4	177.1	169.0	161.0	152.9	174.4	205.2	228.1	228.1	228.1	201.2

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CATALOG NUMBER: ARC-CA6-70-740-U-33-X-5-X

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	169.0	169.0	162.3	155.6	148.9	173.0	197.2	224.0	224.0	230.7	210.6
115°	163.7	162.3	157.0	152.9	147.6	174.4	194.5	221.3	222.7	232.1	209.3
117.5°	159.6	158.3	154.3	148.9	146.2	171.7	195.9	226.7	225.4	240.1	205.2
120°	152.9	150.2	144.9	139.5	136.8	158.3	190.5	220.0	217.3	224.0	189.1
122.5°	147.6	139.5	130.1	126.1	126.1	143.5	178.4	198.5	195.9	190.5	170.4
125°	135.5	127.4	119.4	118.0	119.4	134.1	170.4	182.4	183.8	179.8	161.0
127.5°	122.1	116.7	112.7	112.7	115.4	131.5	167.7	175.7	175.7	167.7	152.9
130°	115.4	114.0	111.3	111.3	116.7	132.8	163.7	166.3	166.3	155.6	148.9
132.5°	112.7	110.0	107.3	107.3	112.7	128.8	152.9	158.3	157.0	146.2	140.9
135°	107.3	106.0	103.3	103.3	110.0	126.1	143.5	148.9	147.6	134.1	130.1
137.5°	104.6	102.0	102.0	102.0	108.7	124.8	135.5	139.5	138.2	124.8	120.7
140°	100.6	99.3	96.6	96.6	106.0	120.7	127.4	128.8	127.4	116.7	112.7
142.5°	93.9	92.6	91.2	93.9	103.3	114.0	119.4	119.4	118.0	111.3	106.0
145°	89.9	88.5	87.2	93.9	102.0	107.3	112.7	108.7	108.7	104.6	99.3
147.5°	85.9	84.5	84.5	89.9	96.6	96.6	100.6	99.3	100.6	99.3	93.9
150°	77.8	76.5	76.5	80.5	81.8	81.8	85.9	85.9	85.9	85.9	81.8
152.5°	68.4	67.1	68.4	69.8	69.8	69.8	72.4	73.8	73.8	72.4	71.1
155°	59.0	59.0	59.0	60.4	60.4	59.0	63.0	63.0	63.0	63.0	61.7
157.5°	52.3	52.3	52.3	52.3	52.3	51.0	53.7	53.7	55.0	53.7	53.7
160°	45.6	44.3	44.3	44.3	44.3	42.9	44.3	44.3	44.3	45.6	45.6
162.5°	36.2	34.9	34.9	34.9	34.9	32.2	34.9	33.5	34.9	34.9	36.2
165°	29.5	28.2	28.2	28.2	26.8	25.5	26.8	25.5	25.5	25.5	26.8
167.5°	22.8	22.8	21.5	22.8	21.5	18.8	18.8	17.4	17.4	17.4	17.4
170°	17.4	16.1	14.8	16.1	14.8	12.1	12.1	10.7	10.7	9.4	9.4
172.5°	12.1	10.7	9.4	10.7	9.4	6.7	6.7	4.0	4.0	4.0	4.0
175°	10.7	9.4	8.0	9.4	8.0	5.4	4.0	2.7	2.7	2.7	2.7
177.5°	10.7	9.4	8.0	9.4	8.0	5.4	4.0	2.7	2.7	2.7	2.7
180°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
2.5°	80.5	79.1	77.8	80.5	79.1	80.5	81.8	83.2	83.2	81.8	81.8
5°	92.6	91.2	88.5	87.2	84.5	84.5	84.5	87.2	87.2	85.9	87.2
7.5°	110.0	107.3	103.3	100.6	96.6	96.6	95.2	97.9	99.3	96.6	97.9
10°	123.4	122.1	116.7	112.7	108.7	107.3	107.3	108.7	108.7	107.3	107.3
12.5°	135.5	132.8	127.4	123.4	118.0	116.7	116.7	118.0	118.0	116.7	116.7
15°	152.9	144.9	139.5	135.5	130.1	128.8	127.4	128.8	130.1	127.4	127.4
17.5°	177.1	167.7	155.6	144.9	139.5	142.2	143.5	144.9	143.5	139.5	139.5
20°	190.5	185.1	169.0	161.0	154.3	154.3	154.3	154.3	154.3	152.9	154.3
22.5°	199.9	191.8	171.7	166.3	162.3	165.0	167.7	169.0	169.0	167.7	167.7
25°	242.8	213.3	193.2	189.1	183.8	185.1	182.4	182.4	183.8	182.4	185.1
27.5°	334.0	285.7	240.1	224.0	220.0	220.0	222.7	222.7	222.7	222.7	221.3
30°	401.1	344.8	269.6	248.2	245.5	257.6	264.3	269.6	267.0	262.9	262.9
32.5°	411.8	350.1	275.0	267.0	273.7	283.1	289.8	293.8	297.8	296.5	295.1
35°	389.0	323.3	271.0	281.7	287.1	292.4	293.8	291.1	303.2	308.5	309.9
37.5°	434.6	362.2	315.2	323.3	316.6	311.2	313.9	315.2	331.3	339.4	347.4
40°	555.4	437.3	358.2	354.1	350.1	362.2	378.3	386.3	385.0	379.6	381.0
42.5°	672.1	511.1	403.8	402.4	401.1	422.6	448.1	446.7	434.6	425.2	425.2
45°	791.5	582.2	476.2	477.6	474.9	482.9	489.6	484.3	485.6	488.3	491.0
47.5°	865.2	646.6	521.8	517.8	500.4	516.5	535.2	523.2	519.1	512.4	515.1
50°	882.7	662.7	548.7	578.2	562.1	550.0	529.9	521.8	536.6	547.3	555.4
52.5°	1147.0	818.3	685.5	732.4	711.0	668.1	664.0	650.6	666.7	668.1	677.4
55°	1922.3	1312.0	944.4	990.0	991.3	976.6	1043.7	1006.1	972.6	957.8	952.4
57.5°	3030.4	2028.3	1222.1	1279.8	1334.8	1387.1	1478.3	1401.8	1305.3	1293.2	1306.6
60°	3880.9	2864.0	1558.8	1721.1	1794.9	1797.6	1809.6	1734.5	1675.5	1680.9	1699.6
62.5°	4063.3	3561.6	1985.4	2052.5	2059.2	2009.5	2031.0	2079.3	1996.1	1930.4	1947.8
65°	3941.2	3838.0	2124.9	1950.5	1939.8	1947.8	2094.0	2228.2	2060.5	1894.2	1894.2
67.5°	3705.1	3627.3	1982.7	1754.6	1784.2	1875.4	2060.5	2127.6	1949.2	1772.1	1772.1
70°	3453.0	3297.3	1823.1	1599.0	1671.5	1777.5	1898.2	1903.5	1798.9	1672.8	1664.8
72.5°	3180.6	3039.8	1754.6	1553.4	1587.0	1605.7	1671.5	1713.1	1701.0	1619.2	1617.8
75°	3100.1	2986.1	1753.3	1532.0	1511.8	1505.1	1550.7	1640.6	1682.2	1633.9	1636.6
77.5°	2978.1	2909.7	1671.5	1442.1	1420.6	1420.6	1444.8	1517.2	1580.3	1560.1	1566.8
80°	2893.6	2790.3	1546.7	1344.2	1314.6	1318.7	1321.4	1371.0	1430.0	1432.7	1432.7
82.5°	2731.2	2536.7	1357.6	1197.9	1177.8	1183.2	1173.8	1202.0	1218.1	1238.2	1234.2
85°	2464.3	2189.3	1147.0	1038.3	1006.1	995.4	987.3	988.7	998.1	994.0	977.9
87.5°	2064.5	1735.9	914.9	851.8	814.3	787.4	776.7	763.3	762.0	747.2	752.6
90°	1523.9	1191.2	678.8	656.0	629.2	601.0	586.2	572.8	562.1	547.3	542.0
92.5°	994.0	767.3	496.3	484.3	466.8	450.7	444.0	437.3	434.6	422.6	426.6
95°	621.1	519.1	372.9	359.5	350.1	346.1	347.4	348.8	346.1	332.7	336.7
97.5°	414.5	375.6	291.1	281.7	272.3	271.0	272.3	275.0	276.3	267.0	269.6
100°	305.9	288.4	238.8	232.1	224.0	221.3	222.7	225.4	226.7	218.7	220.0
102.5°	242.8	234.8	206.6	203.9	194.5	191.8	194.5	195.9	197.2	191.8	191.8
105°	213.3	213.3	190.5	189.1	182.4	179.8	181.1	182.4	183.8	178.4	178.4
107.5°	205.2	206.6	183.8	185.1	181.1	179.8	182.4	185.1	183.8	179.8	178.4
110°	212.0	214.6	183.8	187.8	189.1	191.8	197.2	198.5	198.5	195.9	197.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	218.7	222.7	181.1	190.5	199.9	206.6	216.0	221.3	218.7	217.3	218.7
115°	213.3	216.0	169.0	183.8	201.2	210.6	213.3	213.3	206.6	206.6	207.9
117.5°	206.6	212.0	157.0	169.0	181.1	189.1	187.8	183.8	175.7	173.0	181.1
120°	191.8	207.9	150.2	152.9	154.3	157.0	152.9	148.9	142.2	140.9	146.2
122.5°	177.1	191.8	138.2	135.5	134.1	134.1	132.8	131.5	127.4	128.8	134.1
125°	165.0	173.0	126.1	122.1	120.7	122.1	122.1	122.1	119.4	116.7	116.7
127.5°	155.6	158.3	119.4	114.0	112.7	112.7	112.7	114.0	112.7	108.7	108.7
130°	150.2	148.9	115.4	106.0	104.6	106.0	106.0	107.3	104.6	102.0	102.0
132.5°	139.5	136.8	110.0	100.6	99.3	100.6	100.6	100.6	97.9	95.2	95.2
135°	127.4	124.8	103.3	93.9	92.6	93.9	93.9	95.2	92.6	89.9	89.9
137.5°	118.0	115.4	96.6	88.5	87.2	87.2	88.5	88.5	87.2	84.5	84.5
140°	110.0	107.3	89.9	83.2	80.5	81.8	81.8	81.8	80.5	77.8	77.8
142.5°	103.3	102.0	83.2	76.5	73.8	75.1	75.1	76.5	73.8	71.1	71.1
145°	97.9	95.2	77.8	69.8	68.4	68.4	68.4	69.8	67.1	64.4	64.4
147.5°	92.6	89.9	71.1	63.0	61.7	61.7	61.7	61.7	60.4	57.7	56.3
150°	81.8	80.5	65.7	57.7	55.0	55.0	55.0	53.7	51.0	48.3	48.3
152.5°	69.8	68.4	57.7	51.0	48.3	48.3	47.0	47.0	44.3	42.9	41.6
155°	60.4	60.4	52.3	45.6	42.9	41.6	40.2	40.2	38.9	37.6	36.2
157.5°	53.7	52.3	47.0	41.6	36.2	36.2	34.9	34.9	33.5	32.2	30.9
160°	45.6	45.6	40.2	34.9	30.9	29.5	29.5	28.2	26.8	25.5	25.5
162.5°	36.2	36.2	32.2	28.2	24.1	24.1	22.8	22.8	21.5	20.1	18.8
165°	25.5	25.5	24.1	21.5	18.8	17.4	17.4	17.4	16.1	14.8	14.8
167.5°	17.4	17.4	16.1	14.8	13.4	12.1	13.4	13.4	12.1	10.7	10.7
170°	9.4	9.4	8.0	8.0	6.7	6.7	8.0	9.4	8.0	6.7	5.4
172.5°	4.0	4.0	4.0	4.0	2.7	4.0	5.4	6.7	5.4	4.0	4.0
175°	2.7	2.7	4.0	4.0	2.7	4.0	5.4	6.7	5.4	4.0	4.0
177.5°	2.7	2.7	4.0	4.0	2.7	4.0	5.4	6.7	5.4	4.0	4.0
180°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4

(END OF REPORT)