

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: P588500

Luminaire Tested: **ARC-CA6-70-730-U-33-X-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588500
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-CA6-70-730-U-33-X-5-X
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10109 lumens
Efficiency: N/A
Efficacy: 136.8 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): 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



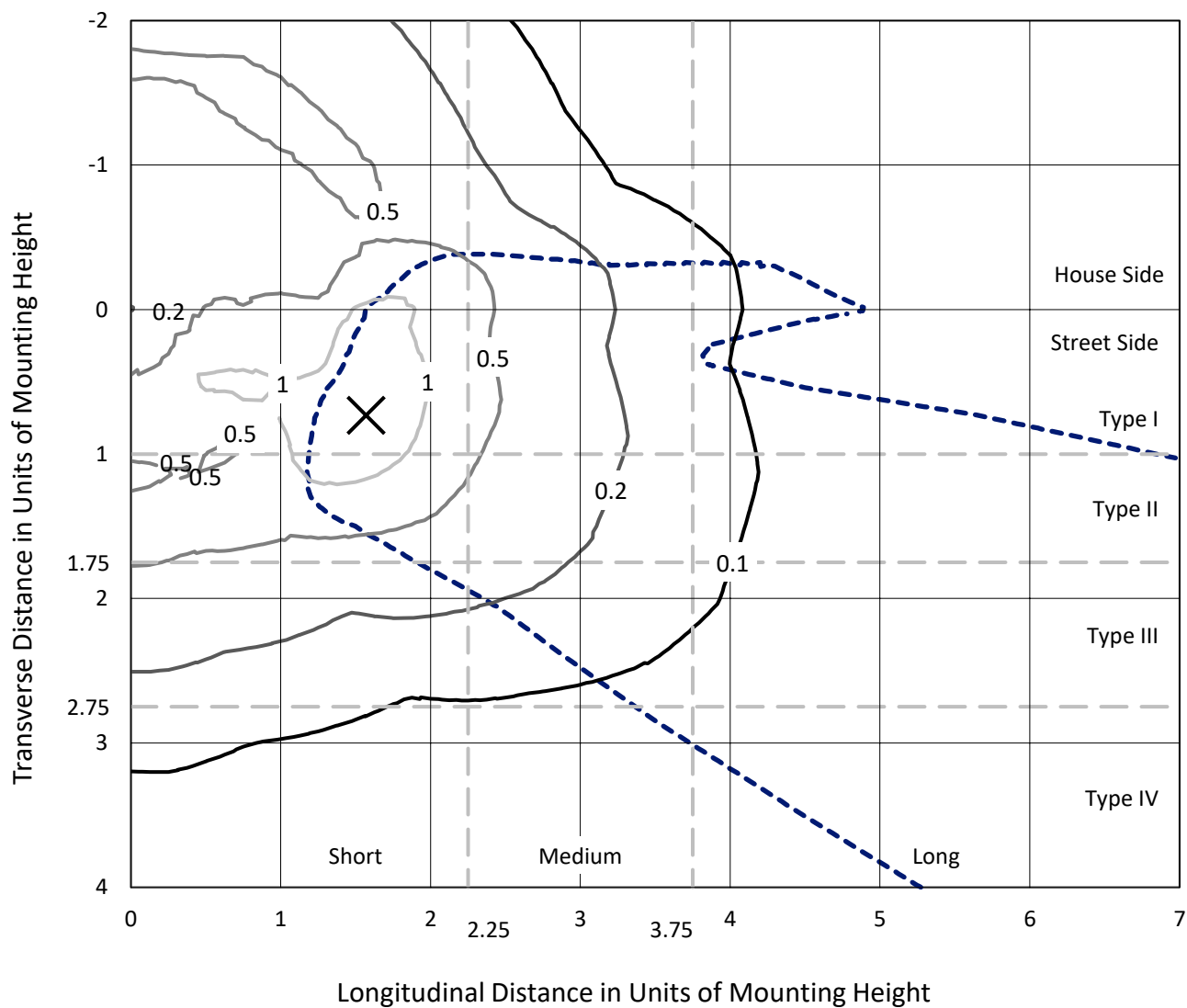
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

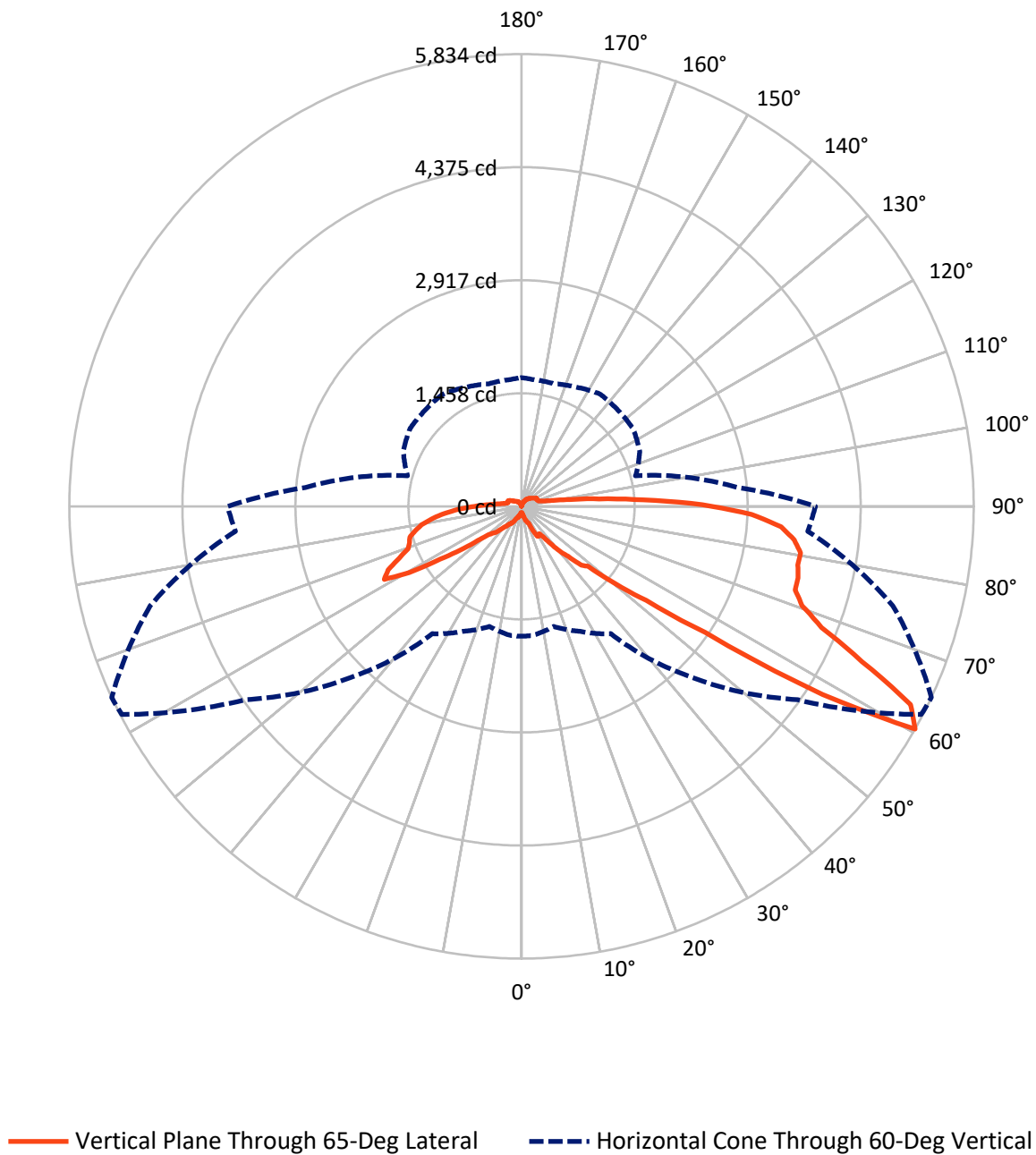


Based on 20 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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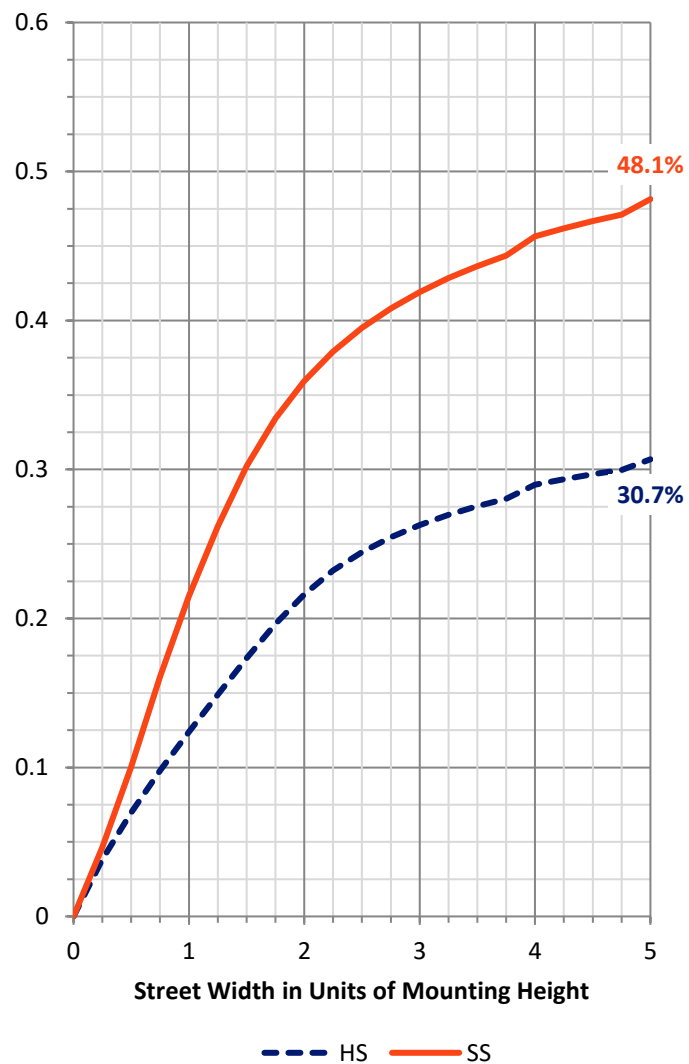
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3371.1	539.9	3911.0
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	5393.4	804.7	6198.0
	% Fixture	53.4	8.0	61.3
Total	Lumens	8764.4	1344.5	10109.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.7	0.1
10°-20°	43.2	0.4
20°-30°	123.5	1.2
30°-40°	265.9	2.6
40°-50°	503.1	5.0
50°-60°	1405.5	13.9
60°-70°	2505.7	24.8
70°-80°	2193.8	21.7
80°-90°	1714.1	17.0
90°-100°	648.0	6.4
100°-110°	222.9	2.2
110°-120°	182.3	1.8
120°-130°	122.5	1.2
130°-140°	84.0	0.8
140°-150°	52.8	0.5
150°-160°	24.5	0.2
160°-170°	6.9	0.1
170°-180°	0.6	0.0
0°-90°	8764.4	86.7
0°-180°	10109.0	100.0

Coefficient of Utilization



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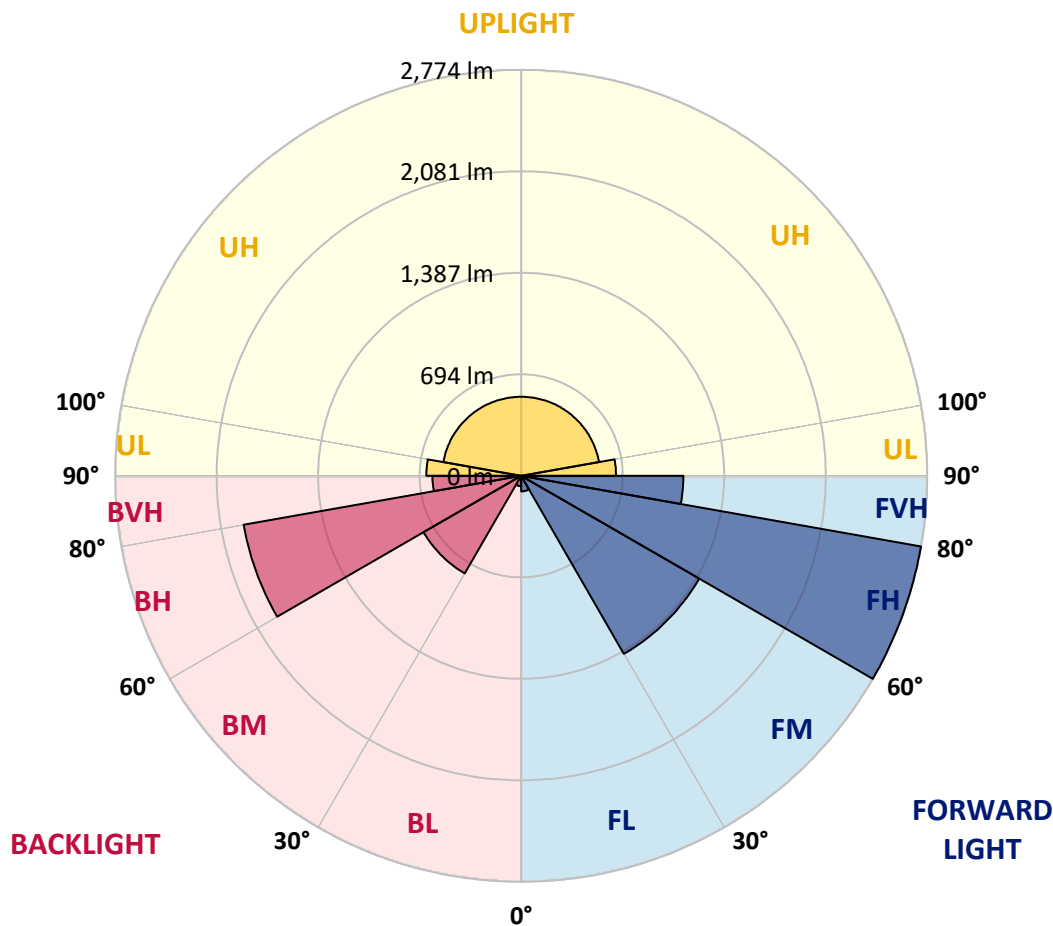
CATALOG NUMBER: ARC-CA6-70-730-U-33-X-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	106.5	1.1			
FM	(30°-60°)	1404.5	13.9			
FH	(60°-80°)	2774.4	27.4			G2/5000
FVH	(80°-90°)	1107.9	11.0			G5
BL	(0°-30°)	69.8	0.7	B0/110		
BM	(30°-60°)	770.0	7.6	B1/1000		
BH	(60°-80°)	1925.2	19.0	B3/2500		G3/2500
BVH	(80°-90°)	606.1	6.0			G4/750
UL	(90°-100°)	648.0	6.4		U4/1000	
UH	(100°-180°)	539.9	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°	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
2.5°	89.1	86.5	83.9	83.9	82.6	81.3	81.3	78.6	79.9	78.6	78.6
5°	104.8	103.5	100.9	102.2	99.6	98.3	98.3	97.0	95.7	94.4	90.4
7.5°	121.9	121.9	123.2	124.5	120.6	116.6	115.3	112.7	112.7	111.4	108.8
10°	140.2	138.9	133.7	133.7	131.1	128.4	129.8	128.4	128.4	128.4	123.2
12.5°	145.5	144.2	140.2	140.2	140.2	138.9	144.2	142.9	144.2	142.9	135.0
15°	163.8	162.5	161.2	162.5	167.8	178.2	191.4	186.1	187.4	184.8	156.0
17.5°	171.7	175.6	178.2	179.6	184.8	184.8	187.4	186.1	191.4	195.3	178.2
20°	199.2	196.6	199.2	208.4	221.5	222.8	218.9	218.9	221.5	222.8	190.0
22.5°	211.0	209.7	220.2	212.3	212.3	218.9	242.5	234.6	234.6	232.0	204.5
25°	273.9	279.2	289.6	302.8	334.2	343.4	369.6	340.8	344.7	304.1	259.5
27.5°	329.0	332.9	394.5	449.5	474.4	461.3	483.6	429.9	435.1	440.4	378.8
30°	346.0	353.9	443.0	483.6	516.4	490.2	519.0	448.2	444.3	474.4	449.5
32.5°	332.9	340.8	435.1	452.2	486.2	583.2	546.5	432.5	420.7	435.1	465.3
35°	365.7	370.9	427.3	386.6	418.1	815.2	715.6	504.6	481.0	401.0	445.6
37.5°	439.1	439.1	505.9	534.7	558.3	962.0	939.7	627.8	609.4	469.2	515.1
40°	532.1	529.5	612.1	631.7	642.2	871.6	1136.3	800.8	760.2	551.8	671.0
42.5°	588.5	583.2	650.1	671.0	671.0	737.9	1285.7	975.1	880.7	643.5	820.4
45°	610.7	616.0	702.5	676.3	695.9	757.5	1445.6	1216.3	1083.9	754.9	951.5
47.5°	553.1	560.9	685.5	688.1	588.5	605.5	1296.2	1263.4	1154.7	808.7	993.4
50°	678.9	684.1	728.7	698.6	650.1	766.7	1543.9	1623.9	1576.7	1001.3	1048.5
52.5°	931.8	955.4	997.4	1023.6	1009.2	1288.3	2070.8	2056.4	2017.0	1503.3	1431.2
55°	1207.1	1226.7	1285.7	1444.3	1564.9	1929.2	2575.4	2876.8	2874.2	2441.7	2230.7
57.5°	1457.4	1458.7	1466.6	1661.9	1848.0	2519.0	3373.5	4481.0	4580.6	3900.4	3194.0
60°	1675.0	1671.0	1604.2	1778.5	2005.2	3123.2	4348.6	5813.9	5833.6	4959.4	3705.1
62.5°	1733.9	1722.2	1625.2	1787.7	1981.7	3135.0	4597.6	5655.3	5633.0	5034.1	3772.0
65°	1682.8	1671.0	1547.8	1693.3	1785.1	2849.3	4246.4	4863.7	4827.0	4599.0	3591.1
67.5°	1606.8	1614.7	1492.8	1604.2	1667.1	2672.3	3876.8	4184.8	4174.3	4285.7	3440.4
70°	1496.7	1503.3	1391.9	1529.5	1621.2	2559.6	3522.9	3857.1	3838.8	4002.6	3218.9
72.5°	1500.7	1520.3	1387.9	1491.5	1587.2	2405.0	3363.0	3744.4	3690.7	3715.6	2952.8
75°	1511.1	1537.4	1397.1	1490.2	1579.3	2348.6	3344.7	3753.6	3685.5	3612.1	2851.9
77.5°	1515.1	1553.1	1402.4	1504.6	1581.9	2271.3	3302.8	3707.7	3643.5	3512.5	2732.6
80°	1483.6	1524.2	1380.1	1505.9	1564.9	2118.0	3196.6	3699.9	3651.4	3499.3	2684.1
82.5°	1420.7	1461.3	1336.8	1440.4	1532.1	1962.0	3047.2	3546.5	3543.9	3373.5	2581.9
85°	1283.1	1327.7	1233.3	1329.0	1441.7	1754.9	2745.7	3285.7	3357.8	3220.2	2444.3
87.5°	1150.7	1195.3	1145.5	1199.2	1313.2	1525.6	2359.1	2836.2	2971.2	2857.1	2099.6
90°	1000.0	1045.9	1005.2	984.3	1076.0	1217.6	1886.0	2205.8	2332.9	2263.4	1545.2
92.5°	800.8	840.1	802.1	753.6	808.7	893.8	1401.0	1543.9	1574.1	1507.2	1013.1
95°	605.5	634.3	600.3	551.8	558.3	612.1	965.9	1011.8	1003.9	924.0	643.5
97.5°	420.7	437.7	415.5	381.4	393.2	427.3	639.6	634.3	634.3	564.9	420.7
100°	292.3	298.8	288.3	272.6	281.8	304.1	429.9	428.6	415.5	381.4	306.7
102.5°	232.0	233.3	222.8	212.3	207.1	228.0	310.6	309.3	311.9	296.2	239.8
105°	204.5	203.1	194.0	184.8	174.3	195.3	246.4	256.9	255.6	242.5	205.8
107.5°	187.4	186.1	176.9	169.1	159.9	178.2	213.6	228.0	226.7	225.4	194.0
110°	174.3	173.0	165.1	157.3	149.4	170.4	200.5	222.8	222.8	222.8	196.6

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CATALOG NUMBER: ARC-CA6-70-730-U-33-X-5-X

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	165.1	165.1	158.6	152.0	145.5	169.1	192.7	218.9	218.9	225.4	205.8
115°	159.9	158.6	153.3	149.4	144.2	170.4	190.0	216.3	217.6	226.7	204.5
117.5°	156.0	154.7	150.7	145.5	142.9	167.8	191.4	221.5	220.2	234.6	200.5
120°	149.4	146.8	141.5	136.3	133.7	154.7	186.1	214.9	212.3	218.9	184.8
122.5°	144.2	136.3	127.1	123.2	123.2	140.2	174.3	194.0	191.4	186.1	166.4
125°	132.4	124.5	116.6	115.3	116.6	131.1	166.4	178.2	179.6	175.6	157.3
127.5°	119.3	114.0	110.1	110.1	112.7	128.4	163.8	171.7	171.7	163.8	149.4
130°	112.7	111.4	108.8	108.8	114.0	129.8	159.9	162.5	162.5	152.0	145.5
132.5°	110.1	107.5	104.8	104.8	110.1	125.8	149.4	154.7	153.3	142.9	137.6
135°	104.8	103.5	100.9	100.9	107.5	123.2	140.2	145.5	144.2	131.1	127.1
137.5°	102.2	99.6	99.6	99.6	106.2	121.9	132.4	136.3	135.0	121.9	118.0
140°	98.3	97.0	94.4	94.4	103.5	118.0	124.5	125.8	124.5	114.0	110.1
142.5°	91.7	90.4	89.1	91.7	100.9	111.4	116.6	116.6	115.3	108.8	103.5
145°	87.8	86.5	85.2	91.7	99.6	104.8	110.1	106.2	106.2	102.2	97.0
147.5°	83.9	82.6	82.6	87.8	94.4	94.4	98.3	97.0	98.3	97.0	91.7
150°	76.0	74.7	74.7	78.6	79.9	79.9	83.9	83.9	83.9	83.9	79.9
152.5°	66.8	65.5	66.8	68.2	68.2	68.2	70.8	72.1	72.1	70.8	69.5
155°	57.7	57.7	57.7	59.0	59.0	57.7	61.6	61.6	61.6	61.6	60.3
157.5°	51.1	51.1	51.1	51.1	51.1	49.8	52.4	52.4	53.7	52.4	52.4
160°	44.6	43.3	43.3	43.3	43.3	41.9	43.3	43.3	43.3	44.6	44.6
162.5°	35.4	34.1	34.1	34.1	34.1	31.5	34.1	32.8	34.1	34.1	35.4
165°	28.8	27.5	27.5	27.5	26.2	24.9	26.2	24.9	24.9	24.9	26.2
167.5°	22.3	22.3	21.0	22.3	21.0	18.3	18.3	17.0	17.0	17.0	17.0
170°	17.0	15.7	14.4	15.7	14.4	11.8	11.8	10.5	10.5	9.2	9.2
172.5°	11.8	10.5	9.2	10.5	9.2	6.6	6.6	3.9	3.9	3.9	3.9
175°	10.5	9.2	7.9	9.2	7.9	5.2	3.9	2.6	2.6	2.6	2.6
177.5°	10.5	9.2	7.9	9.2	7.9	5.2	3.9	2.6	2.6	2.6	2.6
180°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
2.5°	78.6	77.3	76.0	78.6	77.3	78.6	79.9	81.3	81.3	79.9	79.9
5°	90.4	89.1	86.5	85.2	82.6	82.6	82.6	85.2	85.2	83.9	85.2
7.5°	107.5	104.8	100.9	98.3	94.4	94.4	93.1	95.7	97.0	94.4	95.7
10°	120.6	119.3	114.0	110.1	106.2	104.8	104.8	106.2	106.2	104.8	104.8
12.5°	132.4	129.8	124.5	120.6	115.3	114.0	114.0	115.3	115.3	114.0	114.0
15°	149.4	141.5	136.3	132.4	127.1	125.8	124.5	125.8	127.1	124.5	124.5
17.5°	173.0	163.8	152.0	141.5	136.3	138.9	140.2	141.5	140.2	136.3	136.3
20°	186.1	180.9	165.1	157.3	150.7	150.7	150.7	150.7	150.7	149.4	150.7
22.5°	195.3	187.4	167.8	162.5	158.6	161.2	163.8	165.1	165.1	163.8	163.8
25°	237.2	208.4	188.7	184.8	179.6	180.9	178.2	178.2	179.6	178.2	180.9
27.5°	326.3	279.2	234.6	218.9	214.9	214.9	217.6	217.6	217.6	217.6	216.3
30°	391.9	336.8	263.4	242.5	239.8	251.6	258.2	263.4	260.8	256.9	256.9
32.5°	402.4	342.1	268.7	260.8	267.4	276.5	283.1	287.0	291.0	289.6	288.3
35°	380.1	315.9	264.7	275.2	280.5	285.7	287.0	284.4	296.2	301.4	302.8
37.5°	424.6	353.9	308.0	315.9	309.3	304.1	306.7	308.0	323.7	331.6	339.4
40°	542.6	427.3	349.9	346.0	342.1	353.9	369.6	377.5	376.1	370.9	372.2
42.5°	656.6	499.3	394.5	393.2	391.9	412.8	437.7	436.4	424.6	415.5	415.5
45°	773.3	568.8	465.3	466.6	464.0	471.8	478.4	473.1	474.4	477.1	479.7
47.5°	845.3	631.7	509.8	505.9	488.9	504.6	522.9	511.1	507.2	500.7	503.3
50°	862.4	647.4	536.0	564.9	549.1	537.4	517.7	509.8	524.2	534.7	542.6
52.5°	1120.6	799.5	669.7	715.6	694.6	652.7	648.8	635.6	651.4	652.7	661.9
55°	1878.1	1281.8	922.7	967.2	968.5	954.1	1019.7	983.0	950.2	935.8	930.5
57.5°	2960.7	1981.7	1194.0	1250.3	1304.1	1355.2	1444.3	1369.6	1275.2	1263.4	1276.5
60°	3791.6	2798.2	1522.9	1681.5	1753.6	1756.2	1768.0	1694.6	1637.0	1642.2	1660.6
62.5°	3969.9	3479.7	1939.7	2005.2	2011.8	1963.3	1984.3	2031.5	1950.2	1886.0	1903.0
65°	3850.6	3749.7	2076.0	1905.6	1895.2	1903.0	2045.9	2176.9	2013.1	1850.6	1850.6
67.5°	3619.9	3543.9	1937.1	1714.3	1743.1	1832.2	2013.1	2078.6	1904.3	1731.3	1731.3
70°	3373.5	3221.5	1781.1	1562.3	1633.0	1736.6	1854.5	1859.8	1757.5	1634.3	1626.5
72.5°	3107.5	2969.9	1714.3	1517.7	1550.5	1568.8	1633.0	1673.7	1661.9	1581.9	1580.6
75°	3028.8	2917.4	1713.0	1496.7	1477.1	1470.5	1515.1	1602.9	1643.5	1596.3	1599.0
77.5°	2909.6	2842.7	1633.0	1408.9	1387.9	1387.9	1411.5	1482.3	1543.9	1524.2	1530.8
80°	2827.0	2726.1	1511.1	1313.2	1284.4	1288.3	1291.0	1339.5	1397.1	1399.7	1399.7
82.5°	2668.4	2478.4	1326.3	1170.4	1150.7	1156.0	1146.8	1174.3	1190.0	1209.7	1205.8
85°	2407.6	2138.9	1120.6	1014.4	983.0	972.5	964.6	965.9	975.1	971.2	955.4
87.5°	2017.0	1695.9	893.8	832.2	795.5	769.3	758.8	745.7	744.4	730.0	735.3
90°	1488.9	1163.8	663.2	640.9	614.7	587.2	572.7	559.6	549.1	534.7	529.5
92.5°	971.2	749.7	484.9	473.1	456.1	440.4	433.8	427.3	424.6	412.8	416.8
95°	606.8	507.2	364.4	351.2	342.1	338.1	339.4	340.8	338.1	325.0	329.0
97.5°	405.0	367.0	284.4	275.2	266.1	264.7	266.1	268.7	270.0	260.8	263.4
100°	298.8	281.8	233.3	226.7	218.9	216.3	217.6	220.2	221.5	213.6	214.9
102.5°	237.2	229.4	201.8	199.2	190.0	187.4	190.0	191.4	192.7	187.4	187.4
105°	208.4	208.4	186.1	184.8	178.2	175.6	176.9	178.2	179.6	174.3	174.3
107.5°	200.5	201.8	179.6	180.9	176.9	175.6	178.2	180.9	179.6	175.6	174.3
110°	207.1	209.7	179.6	183.5	184.8	187.4	192.7	194.0	194.0	191.4	192.7

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	213.6	217.6	176.9	186.1	195.3	201.8	211.0	216.3	213.6	212.3	213.6
115°	208.4	211.0	165.1	179.6	196.6	205.8	208.4	208.4	201.8	201.8	203.1
117.5°	201.8	207.1	153.3	165.1	176.9	184.8	183.5	179.6	171.7	169.1	176.9
120°	187.4	203.1	146.8	149.4	150.7	153.3	149.4	145.5	138.9	137.6	142.9
122.5°	173.0	187.4	135.0	132.4	131.1	131.1	129.8	128.4	124.5	125.8	131.1
125°	161.2	169.1	123.2	119.3	118.0	119.3	119.3	119.3	116.6	114.0	114.0
127.5°	152.0	154.7	116.6	111.4	110.1	110.1	110.1	111.4	110.1	106.2	106.2
130°	146.8	145.5	112.7	103.5	102.2	103.5	103.5	104.8	102.2	99.6	99.6
132.5°	136.3	133.7	107.5	98.3	97.0	98.3	98.3	98.3	95.7	93.1	93.1
135°	124.5	121.9	100.9	91.7	90.4	91.7	91.7	93.1	90.4	87.8	87.8
137.5°	115.3	112.7	94.4	86.5	85.2	85.2	86.5	86.5	85.2	82.6	82.6
140°	107.5	104.8	87.8	81.3	78.6	79.9	79.9	79.9	78.6	76.0	76.0
142.5°	100.9	99.6	81.3	74.7	72.1	73.4	73.4	74.7	72.1	69.5	69.5
145°	95.7	93.1	76.0	68.2	66.8	66.8	66.8	68.2	65.5	62.9	62.9
147.5°	90.4	87.8	69.5	61.6	60.3	60.3	60.3	60.3	59.0	56.4	55.0
150°	79.9	78.6	64.2	56.4	53.7	53.7	53.7	52.4	49.8	47.2	47.2
152.5°	68.2	66.8	56.4	49.8	47.2	47.2	45.9	45.9	43.3	41.9	40.6
155°	59.0	59.0	51.1	44.6	41.9	40.6	39.3	39.3	38.0	36.7	35.4
157.5°	52.4	51.1	45.9	40.6	35.4	35.4	34.1	34.1	32.8	31.5	30.1
160°	44.6	44.6	39.3	34.1	30.1	28.8	28.8	27.5	26.2	24.9	24.9
162.5°	35.4	35.4	31.5	27.5	23.6	23.6	22.3	22.3	21.0	19.7	18.3
165°	24.9	24.9	23.6	21.0	18.3	17.0	17.0	17.0	15.7	14.4	14.4
167.5°	17.0	17.0	15.7	14.4	13.1	11.8	13.1	13.1	11.8	10.5	10.5
170°	9.2	9.2	7.9	7.9	6.6	6.6	7.9	9.2	7.9	6.6	5.2
172.5°	3.9	3.9	3.9	3.9	2.6	3.9	5.2	6.6	5.2	3.9	3.9
175°	2.6	2.6	3.9	3.9	2.6	3.9	5.2	6.6	5.2	3.9	3.9
177.5°	2.6	2.6	3.9	3.9	2.6	3.9	5.2	6.6	5.2	3.9	3.9
180°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2

(END OF REPORT)