

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: P588527

Luminaire Tested: **ARC-CA6-80-740-U-33-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588527
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-CA6-80-740-U-33-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7911 lumens
Efficiency: N/A
Efficacy: 93.7 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): 84.4
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



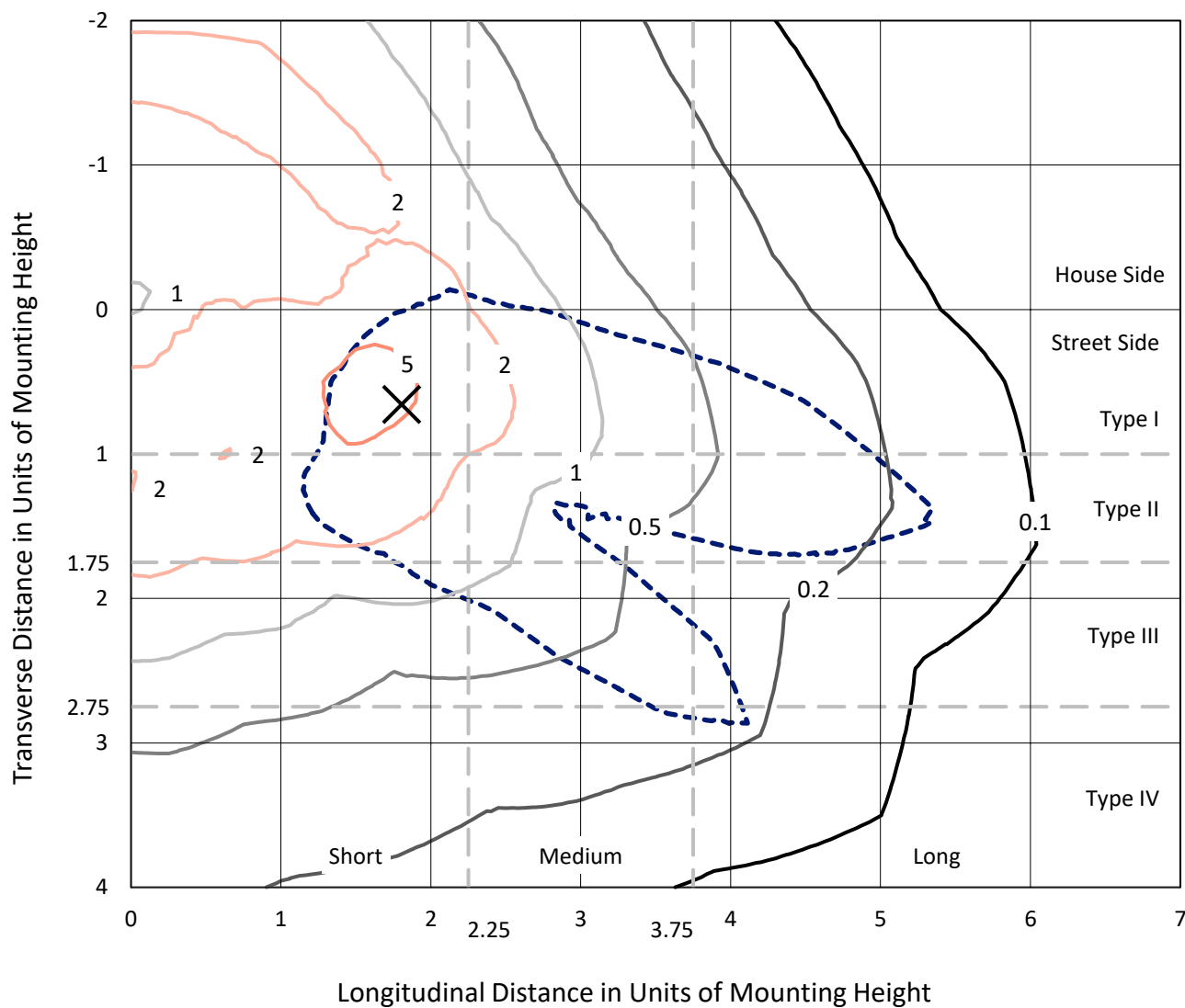
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

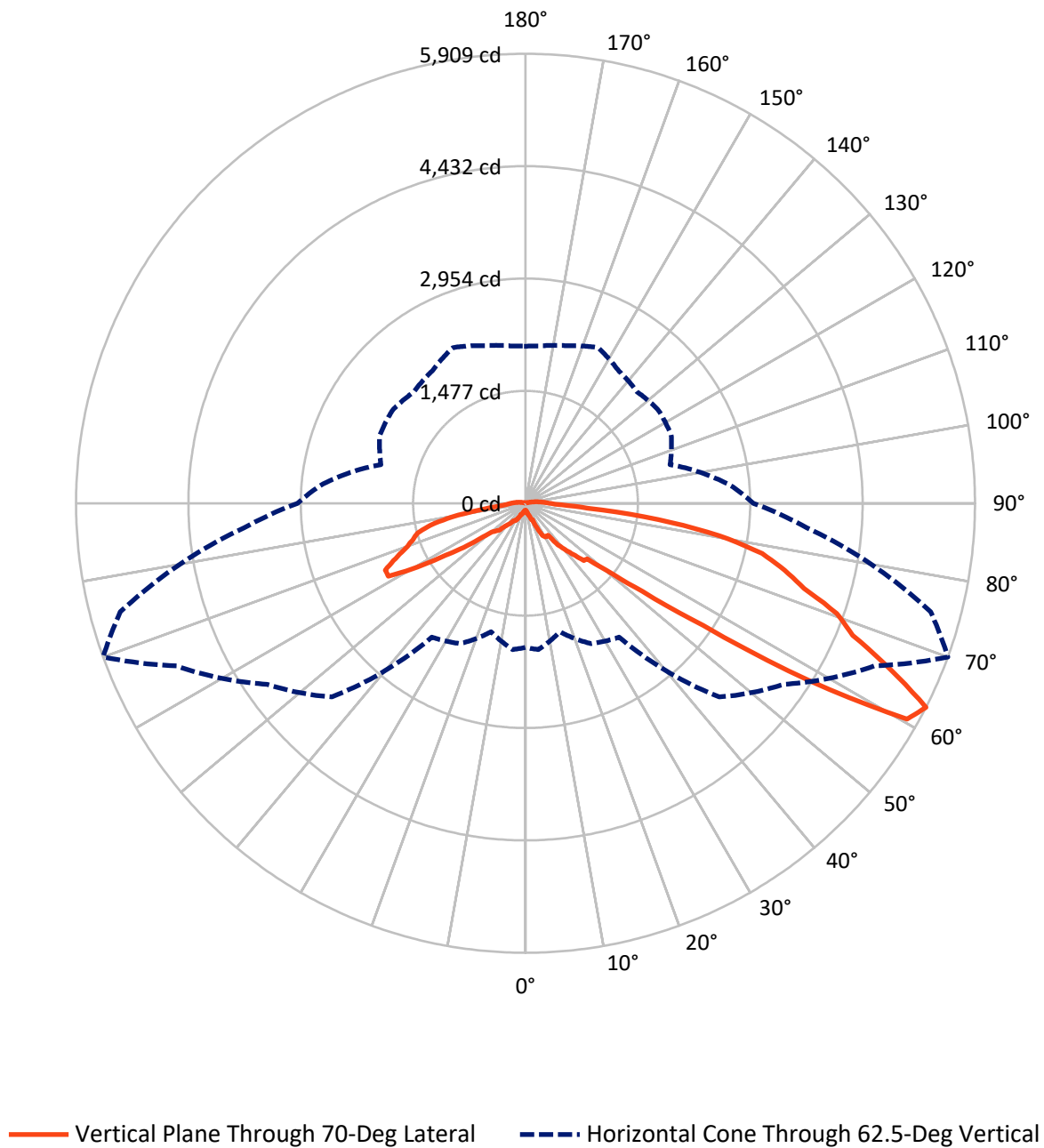


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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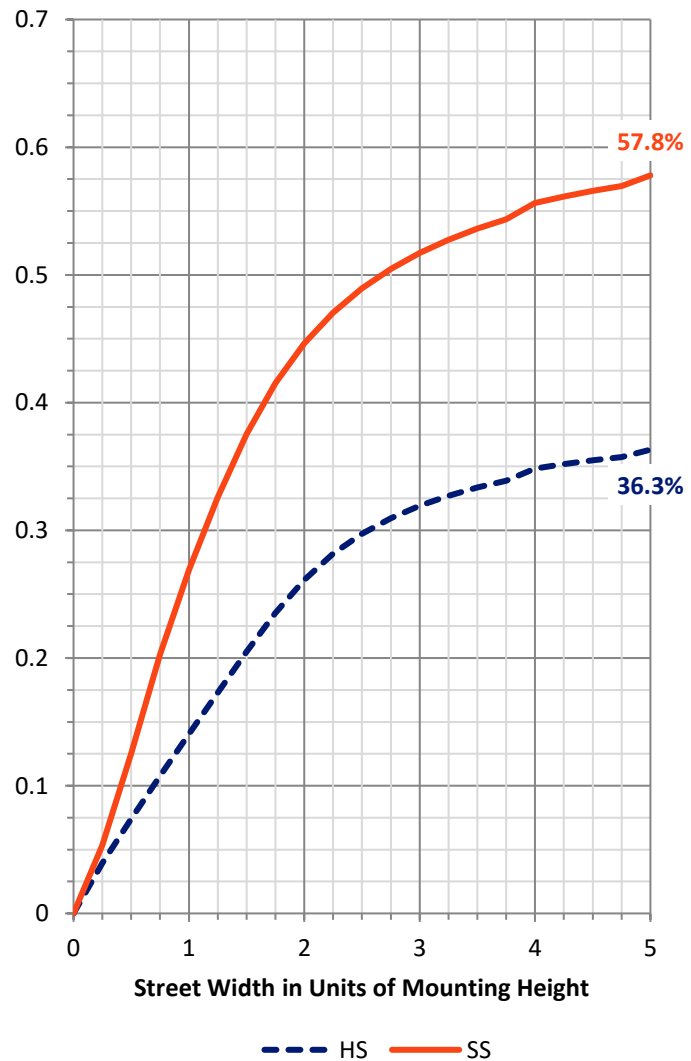
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2932.0	107.5	3039.5
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	4723.8	147.7	4871.5
	% Fixture	59.7	1.9	61.6
Total	Lumens	7655.8	255.2	7911.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	0.1
10°-20°	43.1	0.5
20°-30°	133.4	1.7
30°-40°	286.2	3.6
40°-50°	536.2	6.8
50°-60°	1391.5	17.6
60°-70°	2548.9	32.2
70°-80°	2044.5	25.8
80°-90°	662.0	8.4
90°-100°	174.4	2.2
100°-110°	56.7	0.7
110°-120°	22.2	0.3
120°-130°	1.7	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°	7655.8	96.8
0°-180°	7911.0	100.0

Coefficient of Utilization



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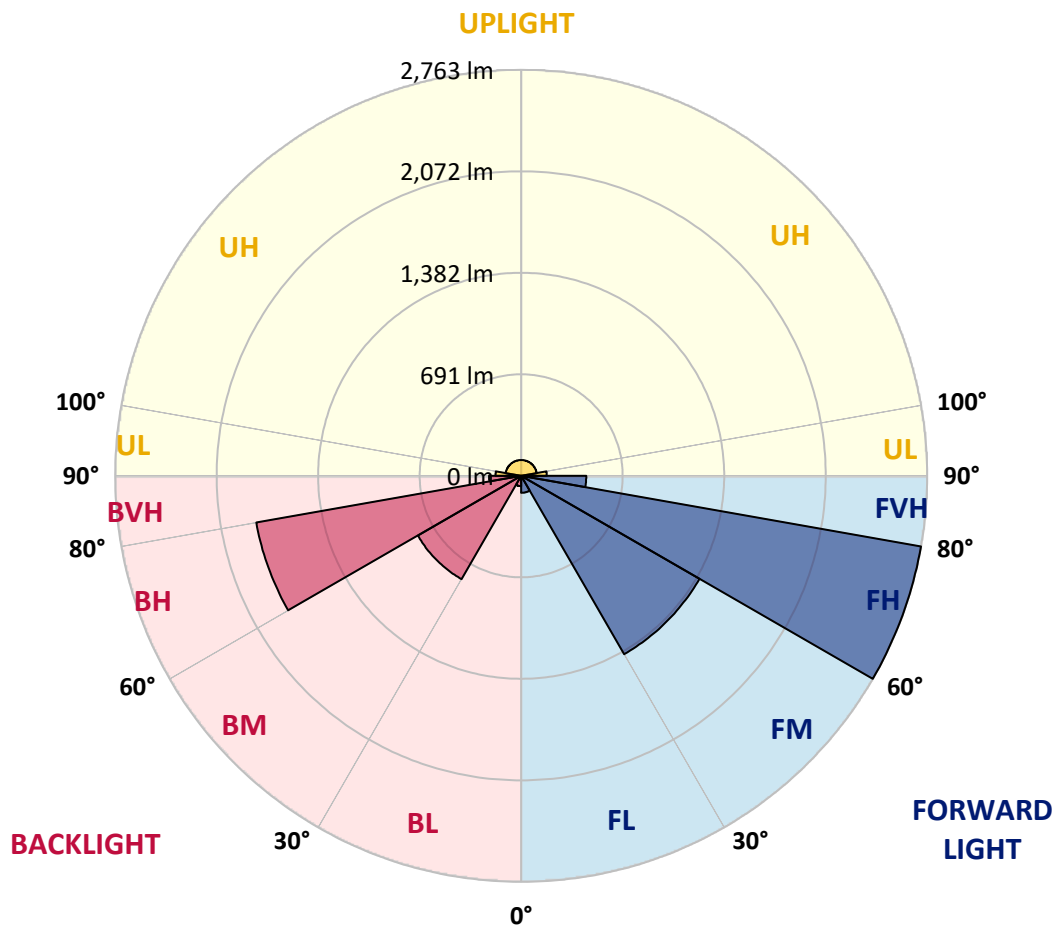
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	116.1	1.5			
FM	(30°-60°)	1401.7	17.7			
FH	(60°-80°)	2763.1	34.9			G2/5000
FVH	(80°-90°)	442.9	5.6			G3/500
BL	(0°-30°)	70.4	0.9	B0/110		
BM	(30°-60°)	812.2	10.3	B1/1000		
BH	(60°-80°)	1830.3	23.1	B3/2500		G3/2500
BVH	(80°-90°)	219.1	2.8			G2/225
UL	(90°-100°)	174.4	2.2		U3/500	
UH	(100°-180°)	107.5	1.4		U3/500	

BUG Rating: B3-U3-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
2.5°	101.3	101.3	101.3	99.8	98.3	96.8	95.3	95.3	93.8	92.3	90.7
5°	110.4	108.9	107.4	104.4	102.8	102.8	101.3	101.3	101.3	99.8	98.3
7.5°	122.5	122.5	121.0	119.5	118.0	116.4	114.9	113.4	113.4	111.9	110.4
10°	139.1	139.1	139.1	137.6	137.6	136.1	133.1	131.6	128.5	127.0	122.5
12.5°	155.8	157.3	154.3	154.3	154.3	152.7	149.7	148.2	145.2	142.2	136.1
15°	172.4	170.9	169.4	167.9	170.9	170.9	169.4	169.4	163.3	158.8	148.2
17.5°	187.5	187.5	189.0	189.0	193.6	192.1	192.1	190.6	187.5	180.0	166.4
20°	211.7	213.2	213.2	213.2	228.4	234.4	235.9	237.4	232.9	217.8	190.6
22.5°	235.9	237.4	248.0	245.0	245.0	245.0	260.1	252.6	232.9	214.8	199.6
25°	319.1	323.6	326.7	337.2	349.3	382.6	435.6	418.9	388.7	326.7	275.2
27.5°	399.3	405.3	459.7	535.4	546.0	506.6	544.4	494.5	479.4	415.9	373.5
30°	435.6	446.1	539.9	591.3	609.5	558.1	612.5	517.2	512.7	467.3	431.0
32.5°	444.6	452.2	555.0	561.1	565.6	559.6	641.2	524.8	514.2	468.8	415.9
35°	431.0	440.1	509.7	474.9	476.4	583.8	736.5	565.6	517.2	438.6	379.6
37.5°	530.8	530.8	589.8	598.9	638.2	768.3	964.9	747.1	692.6	571.7	499.1
40°	604.9	612.5	706.3	741.0	747.1	857.5	1208.4	875.6	798.5	639.7	583.8
42.5°	704.7	703.2	789.4	813.6	830.3	871.1	1235.6	1007.2	916.5	724.4	682.1
45°	721.4	745.6	824.2	797.0	818.2	922.5	1290.0	1193.2	1072.2	884.7	797.0
47.5°	654.8	688.1	846.9	824.2	739.5	787.9	1034.4	1225.0	1091.9	908.9	846.9
50°	706.3	724.4	803.0	787.9	674.5	837.8	1135.8	1535.0	1386.8	1081.3	922.5
52.5°	913.4	952.8	966.4	1025.4	970.9	1253.7	1589.5	1944.9	1925.2	1565.3	1217.4
55°	1173.6	1231.0	1291.5	1515.4	1547.1	1969.1	2218.6	2598.2	2834.1	2475.7	1867.7
57.5°	1454.9	1536.5	1516.9	1842.0	1891.9	2667.8	2897.6	3786.9	4417.5	3930.6	2735.8
60°	1727.1	1781.5	1671.1	1957.0	2052.2	3358.9	3696.1	4931.7	5762.0	5243.3	3369.5
62.5°	1895.0	1929.7	1748.3	2035.6	2147.5	3599.3	4148.3	5060.3	5908.7	5514.0	3712.8
65°	1893.4	1884.4	1677.2	1926.7	1911.6	3322.6	4009.2	4252.7	5278.0	5211.5	3756.6
67.5°	1819.3	1822.4	1604.6	1802.7	1740.7	2929.4	3714.3	3597.8	4639.8	4729.1	3653.8
70°	1748.3	1784.6	1577.4	1749.8	1721.0	2817.5	3585.7	3237.9	4340.4	4509.8	3544.9
72.5°	1648.4	1683.2	1488.1	1639.4	1650.0	2593.6	3366.5	2826.5	3827.7	4031.9	3177.4
75°	1646.9	1690.8	1507.8	1640.9	1657.5	2466.6	3393.7	2684.4	3520.7	3794.4	2965.7
77.5°	1553.2	1592.5	1423.1	1547.1	1594.0	2232.2	3237.9	2507.4	3180.4	3487.4	2688.9
80°	1247.7	1300.6	1161.5	1243.1	1268.8	1674.2	2596.7	2053.7	2587.6	2894.6	2197.4
82.5°	853.0	901.3	809.1	869.6	902.9	1098.0	1795.1	1479.1	1758.8	1946.4	1376.2
85°	493.0	550.5	496.0	488.5	505.1	579.2	966.4	786.4	818.2	860.5	611.0
87.5°	310.0	319.1	291.9	293.4	296.4	317.6	440.1	350.9	387.2	438.6	370.5
90°	246.5	255.6	235.9	237.4	232.9	252.6	329.7	267.7	297.9	343.3	293.4
92.5°	213.2	219.3	205.7	208.7	205.7	220.8	275.2	220.8	245.0	281.3	240.5
95°	181.5	186.0	178.5	180.0	170.9	180.0	214.8	167.9	186.0	211.7	180.0
97.5°	145.2	149.7	145.2	145.2	136.1	140.6	164.8	130.1	142.2	158.8	136.1
100°	114.9	116.4	114.9	113.4	105.9	105.9	114.9	93.8	98.3	108.9	93.8
102.5°	87.7	89.2	87.7	86.2	77.1	72.6	72.6	60.5	63.5	66.5	59.0
105°	69.6	71.1	69.6	66.5	59.0	54.4	52.9	43.9	43.9	45.4	40.8
107.5°	57.5	57.5	57.5	54.4	49.9	43.9	39.3	31.8	31.8	33.3	31.8
110°	46.9	46.9	45.4	43.9	39.3	34.8	30.2	25.7	25.7	25.7	24.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	39.3	39.3	37.8	36.3	31.8	27.2	24.2	21.2	21.2	21.2	19.7
115°	33.3	33.3	31.8	30.2	27.2	22.7	19.7	16.6	16.6	16.6	16.6
117.5°	28.7	28.7	27.2	25.7	22.7	19.7	16.6	13.6	13.6	13.6	13.6
120°	25.7	24.2	22.7	21.2	18.1	16.6	13.6	12.1	12.1	12.1	10.6
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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
2.5°	90.7	90.7	89.2	89.2	89.2	87.7	87.7	89.2	89.2	89.2	89.2
5°	96.8	95.3	92.3	89.2	87.7	86.2	84.7	84.7	87.7	87.7	87.7
7.5°	108.9	107.4	102.8	99.8	96.8	93.8	92.3	90.7	92.3	93.8	93.8
10°	121.0	119.5	113.4	108.9	107.4	104.4	102.8	101.3	102.8	102.8	102.8
12.5°	133.1	130.1	125.5	119.5	116.4	114.9	113.4	111.9	111.9	111.9	111.9
15°	143.7	139.1	134.6	130.1	127.0	124.0	122.5	121.0	122.5	124.0	124.0
17.5°	160.3	155.8	145.2	137.6	136.1	133.1	131.6	131.6	133.1	134.6	134.6
20°	178.5	169.4	157.3	149.7	148.2	143.7	142.2	142.2	143.7	145.2	145.2
22.5°	193.6	187.5	169.4	158.8	157.3	155.8	157.3	157.3	158.8	160.3	160.3
25°	246.5	222.3	196.6	189.0	187.5	184.5	181.5	180.0	181.5	186.0	187.5
27.5°	332.7	288.9	240.5	223.8	223.8	226.8	232.9	235.9	229.9	226.8	228.4
30°	390.2	331.2	261.6	246.5	249.5	264.7	278.3	287.3	281.3	276.8	278.3
32.5°	375.1	320.6	270.7	267.7	276.8	288.9	296.4	301.0	313.1	317.6	323.6
35°	341.8	301.0	273.7	285.8	291.9	291.9	291.9	291.9	314.6	335.7	341.8
37.5°	417.4	347.8	325.2	329.7	325.2	320.6	325.2	337.2	356.9	373.5	378.1
40°	490.0	402.3	364.5	361.4	359.9	375.1	402.3	423.5	429.5	414.4	417.4
42.5°	570.1	455.2	406.8	411.4	423.5	447.7	477.9	477.9	477.9	464.3	468.8
45°	645.8	517.2	488.5	500.6	500.6	512.7	529.3	518.7	532.3	538.4	546.0
47.5°	735.0	600.4	536.9	526.3	527.8	552.0	558.1	553.5	562.6	552.0	552.0
50°	762.2	614.0	564.1	604.9	604.9	577.7	555.0	558.1	583.8	612.5	618.5
52.5°	969.4	760.7	715.3	757.7	775.8	728.9	728.9	735.0	741.0	762.2	768.3
55°	1450.3	1084.3	948.2	1046.5	1060.1	1088.9	1167.5	1155.4	1085.9	1051.1	1048.0
57.5°	2168.7	1609.1	1181.1	1320.3	1408.0	1525.9	1584.9	1550.1	1456.4	1424.6	1389.8
60°	2772.1	2203.5	1530.5	1772.5	1904.0	1923.7	1902.5	1905.5	1834.5	1857.1	1848.1
62.5°	2995.9	2704.0	1967.5	2114.2	2133.9	2073.4	2129.4	2257.9	2143.0	2074.9	2064.3
65°	3062.5	2890.1	2090.0	1994.8	1976.6	1966.0	2186.8	2401.6	2144.5	1985.7	1984.2
67.5°	2995.9	2699.5	1934.3	1777.0	1819.3	1905.5	2192.9	2273.0	2031.1	1855.6	1843.5
70°	2909.7	2392.5	1740.7	1604.6	1702.9	1828.4	2011.4	1979.6	1884.4	1728.6	1721.0
72.5°	2596.7	2073.4	1616.7	1503.3	1615.2	1651.5	1742.2	1728.6	1755.8	1657.5	1653.0
75°	2324.5	1904.0	1542.6	1409.5	1463.9	1457.9	1530.5	1547.1	1624.2	1581.9	1565.3
77.5°	2005.4	1656.0	1359.6	1205.3	1226.5	1225.0	1259.8	1270.4	1324.8	1327.8	1309.7
80°	1569.8	1297.6	1061.7	907.4	910.4	883.2	887.7	886.2	896.8	908.9	892.3
82.5°	901.3	724.4	601.9	503.6	482.4	446.1	438.6	441.6	437.1	434.0	434.0
85°	441.6	343.3	316.1	282.8	270.7	261.6	266.2	275.2	279.8	270.7	266.2
87.5°	297.9	257.1	245.0	231.4	225.3	216.3	222.3	229.9	235.9	228.4	226.8
90°	235.9	204.2	201.1	198.1	193.6	186.0	192.1	201.1	205.7	199.6	196.6
92.5°	190.6	164.8	164.8	163.3	158.8	152.7	160.3	167.9	172.4	167.9	166.4
95°	146.7	127.0	131.6	128.5	124.0	122.5	127.0	133.1	136.1	133.1	133.1
97.5°	113.4	99.8	104.4	102.8	96.8	95.3	98.3	102.8	105.9	102.8	101.3
100°	77.1	71.1	77.1	77.1	71.1	68.1	71.1	75.6	77.1	77.1	75.6
102.5°	51.4	48.4	56.0	57.5	54.4	51.4	52.9	56.0	57.5	57.5	57.5
105°	36.3	36.3	43.9	45.4	42.3	39.3	42.3	43.9	43.9	43.9	43.9
107.5°	28.7	30.2	34.8	37.8	34.8	31.8	33.3	34.8	34.8	34.8	36.3
110°	24.2	24.2	28.7	31.8	28.7	27.2	27.2	27.2	27.2	28.7	31.8

REPORT NUMBER: P588527

CATALOG NUMBER: ARC-CA6-80-740-U-33-6-5-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	19.7	21.2	24.2	25.7	24.2	22.7	22.7	22.7	22.7	24.2	28.7
115°	16.6	18.1	21.2	21.2	19.7	19.7	19.7	18.1	18.1	19.7	27.2
117.5°	13.6	15.1	16.6	16.6	16.6	15.1	15.1	15.1	15.1	18.1	28.7
120°	12.1	12.1	13.6	13.6	12.1	12.1	12.1	12.1	10.6	15.1	22.7
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)