

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: P588367

Luminaire Tested: **ARC-CA6-100-760-U-33-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588367
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-CA6-100-760-U-33-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9516 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U3 - G4

Input Watts (W): 103.7
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



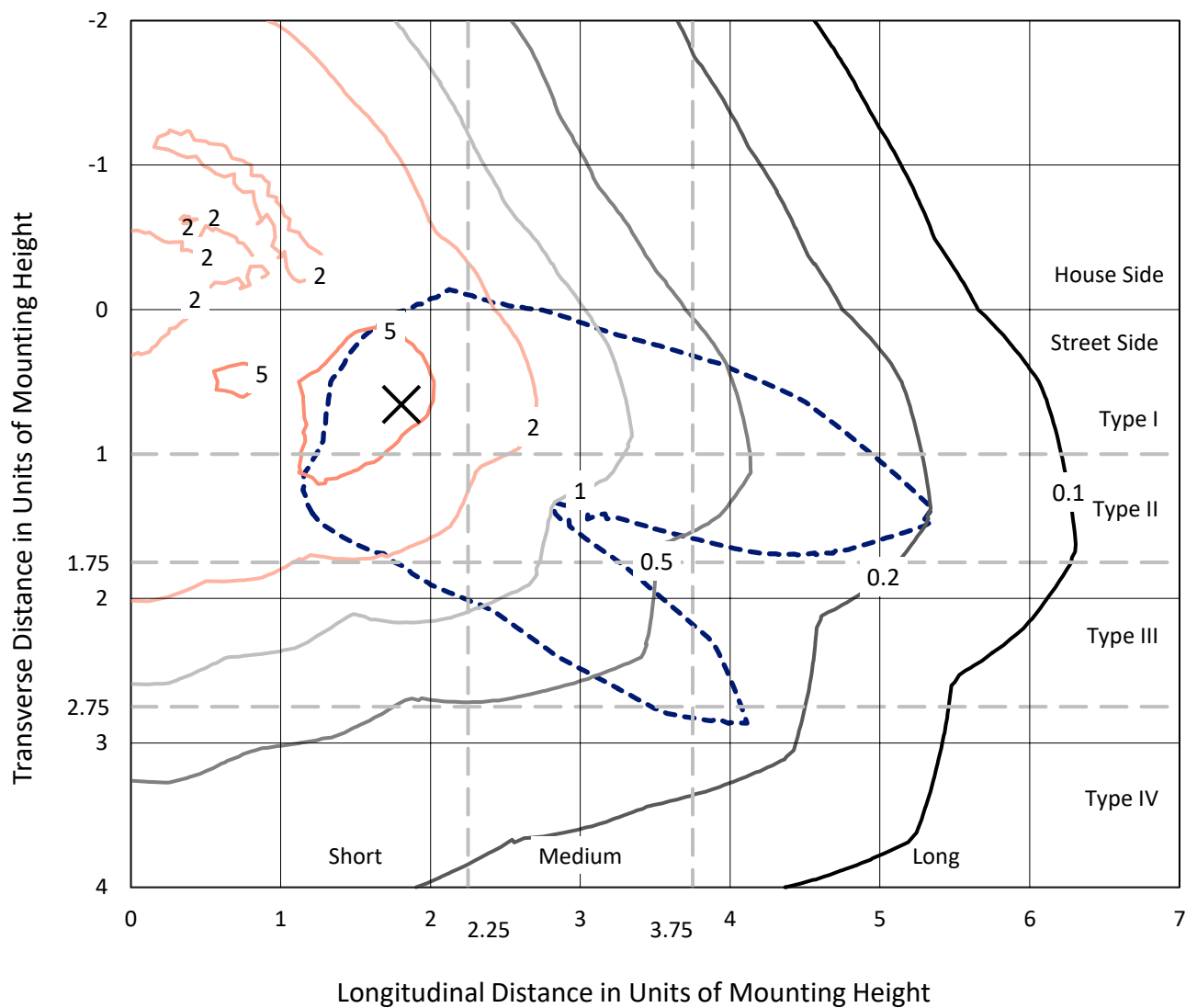
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

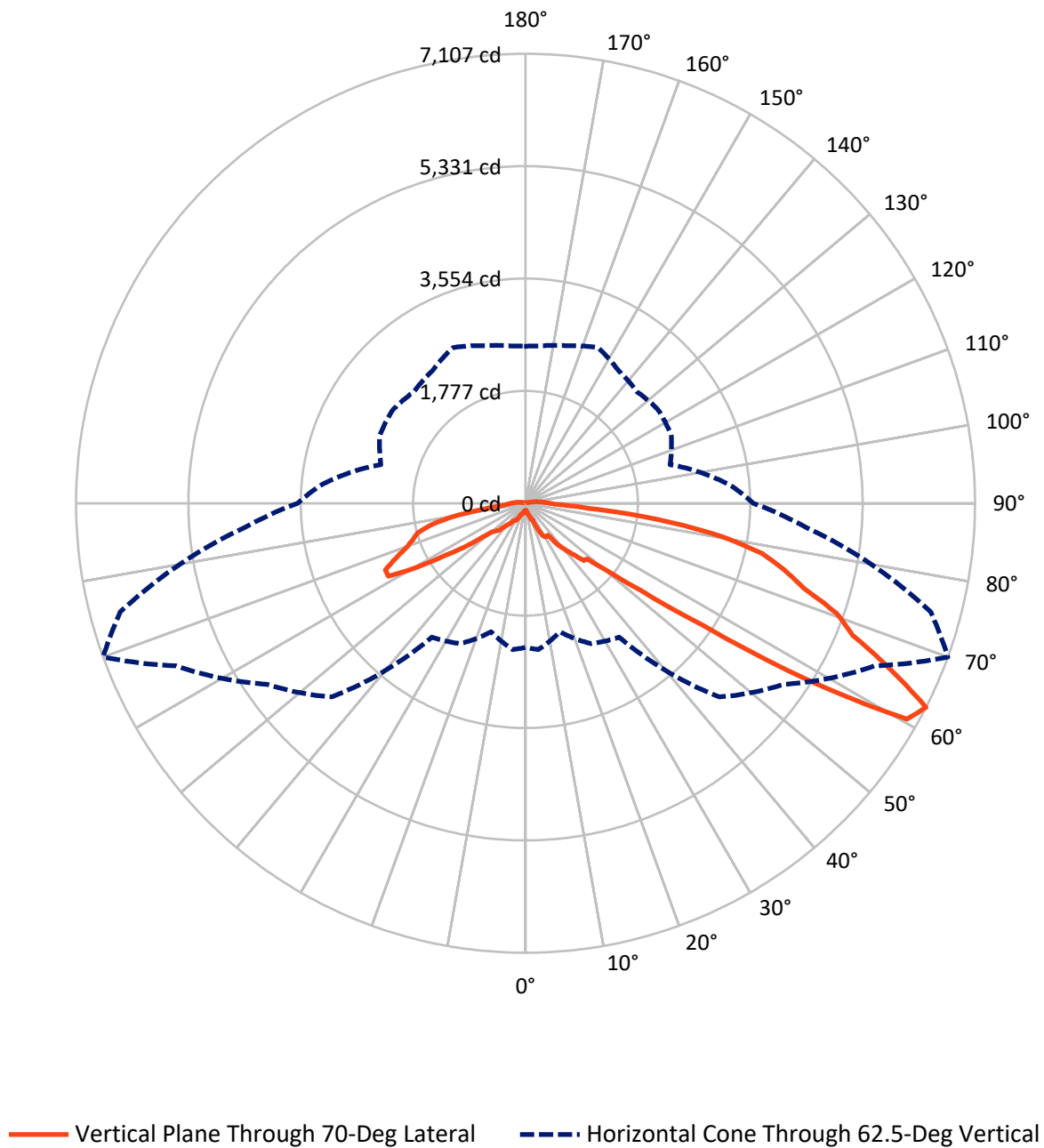


Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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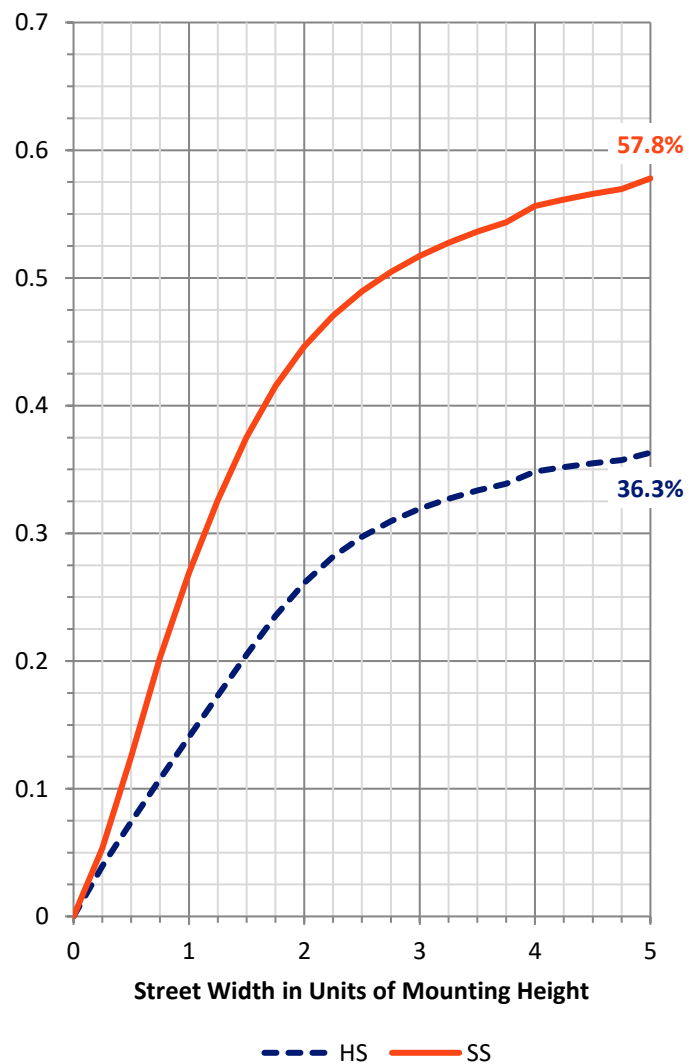
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3526.9	129.3	3656.1
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	5682.2	177.7	5859.9
	% Fixture	59.7	1.9	61.6
Total	Lumens	9209.0	306.9	9516.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.0	0.1
10°-20°	51.8	0.5
20°-30°	160.5	1.7
30°-40°	344.3	3.6
40°-50°	645.0	6.8
50°-60°	1673.8	17.6
60°-70°	3066.0	32.2
70°-80°	2459.3	25.8
80°-90°	796.3	8.4
90°-100°	209.8	2.2
100°-110°	68.3	0.7
110°-120°	26.8	0.3
120°-130°	2.1	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°	9209.0	96.8
0°-180°	9516.0	100.0

Coefficient of Utilization



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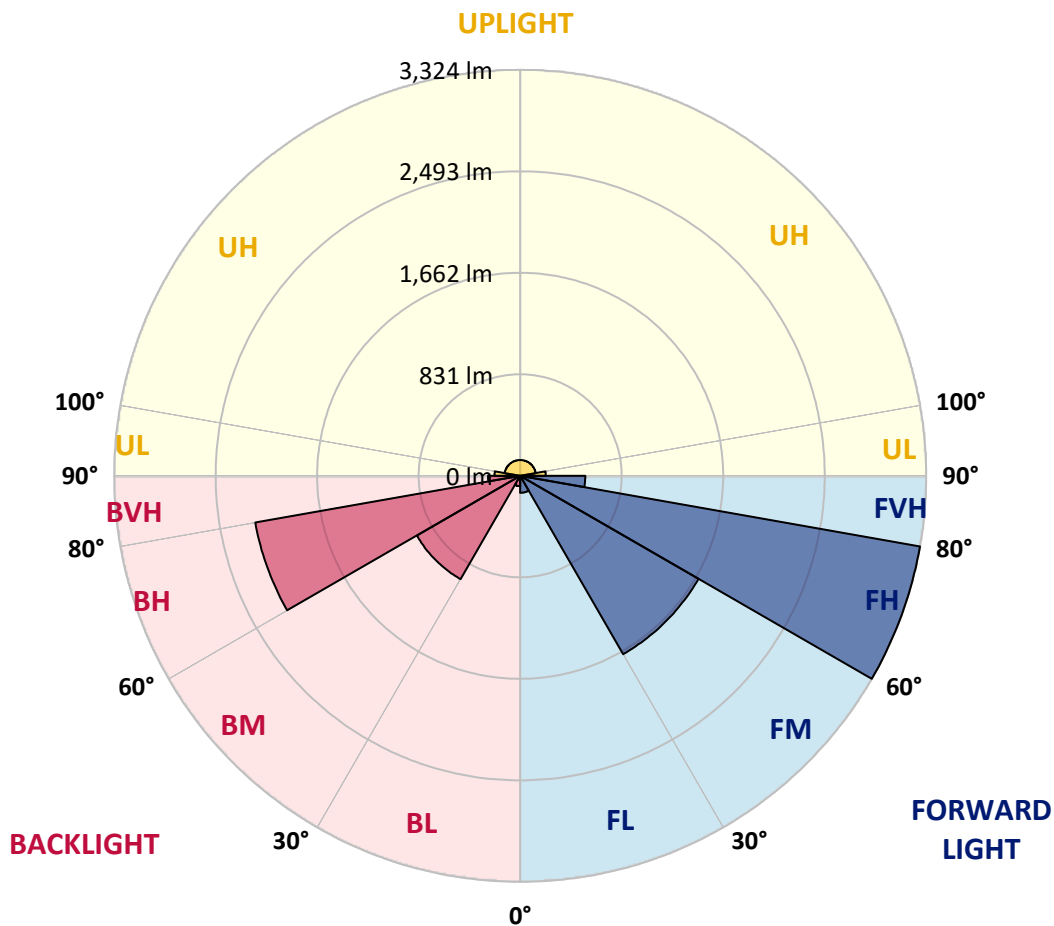
CATALOG NUMBER: ARC-CA6-100-760-U-33-6-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	139.6	1.5			
FM	(30°-60°)	1686.1	17.7			
FH	(60°-80°)	3323.7	34.9			G2/5000
FVH	(80°-90°)	532.8	5.6			G4/750
BL	(0°-30°)	84.7	0.9	B0/110		
BM	(30°-60°)	977.0	10.3	B1/1000		
BH	(60°-80°)	2201.6	23.1	B3/2500		G3/2500
BVH	(80°-90°)	263.6	2.8			G3/500
UL	(90°-100°)	209.8	2.2		U3/500	
UH	(100°-180°)	129.3	1.4		U3/500	

BUG Rating: B3-U3-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8
2.5°	121.9	121.9	121.9	120.1	118.2	116.4	114.6	114.6	112.8	111.0	109.1
5°	132.8	131.0	129.2	125.5	123.7	123.7	121.9	121.9	121.9	120.1	118.2
7.5°	147.4	147.4	145.5	143.7	141.9	140.1	138.3	136.4	136.4	134.6	132.8
10°	167.4	167.4	167.4	165.5	165.5	163.7	160.1	158.3	154.6	152.8	147.4
12.5°	187.4	189.2	185.6	185.6	185.6	183.7	180.1	178.3	174.6	171.0	163.7
15°	207.4	205.6	203.7	201.9	205.6	205.6	203.7	203.7	196.5	191.0	178.3
17.5°	225.6	225.6	227.4	227.4	232.9	231.0	231.0	229.2	225.6	216.5	200.1
20°	254.7	256.5	256.5	256.5	274.7	282.0	283.8	285.6	280.2	262.0	229.2
22.5°	283.8	285.6	298.3	294.7	294.7	294.7	312.9	303.8	280.2	258.3	240.1
25°	383.8	389.3	392.9	405.7	420.2	460.2	523.9	503.9	467.5	392.9	331.1
27.5°	480.3	487.5	553.0	644.0	656.7	609.4	654.9	594.9	576.7	500.3	449.3
30°	523.9	536.7	649.4	711.3	733.1	671.3	736.8	622.2	616.7	562.1	518.5
32.5°	534.8	543.9	667.6	674.9	680.4	673.1	771.3	631.2	618.5	563.9	500.3
35°	518.5	529.4	613.1	571.2	573.0	702.2	885.9	680.4	622.2	527.6	456.6
37.5°	638.5	638.5	709.5	720.4	767.7	924.1	1160.6	898.7	833.2	687.6	600.3
40°	727.7	736.8	849.5	891.4	898.7	1031.5	1453.5	1053.3	960.5	769.5	702.2
42.5°	847.7	845.9	949.6	978.7	998.7	1047.8	1486.3	1211.6	1102.4	871.4	820.4
45°	867.7	896.8	991.4	958.7	984.2	1109.7	1551.7	1435.3	1289.8	1064.2	958.7
47.5°	787.7	827.7	1018.7	991.4	889.6	947.8	1244.3	1473.5	1313.4	1093.3	1018.7
50°	849.5	871.4	966.0	947.8	811.3	1007.8	1366.2	1846.4	1668.2	1300.7	1109.7
52.5°	1098.8	1146.1	1162.4	1233.4	1167.9	1508.1	1911.9	2339.4	2315.8	1882.8	1464.4
55°	1411.7	1480.8	1553.6	1822.8	1861.0	2368.5	2668.7	3125.3	3409.1	2978.0	2246.7
57.5°	1750.0	1848.3	1824.6	2215.7	2275.8	3209.0	3485.5	4555.2	5313.8	4728.0	3290.9
60°	2077.5	2143.0	2010.2	2354.0	2468.6	4040.3	4446.0	5932.3	6931.0	6307.0	4053.1
62.5°	2279.4	2321.2	2102.9	2448.6	2583.2	4329.6	4989.9	6086.9	7107.4	6632.6	4466.0
65°	2277.6	2266.7	2017.4	2317.6	2299.4	3996.7	4822.6	5115.5	6348.9	6268.8	4518.8
67.5°	2188.4	2192.1	1930.1	2168.4	2093.8	3523.7	4467.8	4327.8	5581.2	5688.5	4395.1
70°	2102.9	2146.6	1897.4	2104.8	2070.2	3389.1	4313.2	3894.8	5221.0	5424.7	4264.1
72.5°	1982.9	2024.7	1790.1	1972.0	1984.7	3119.9	4049.4	3400.0	4604.3	4849.9	3822.0
75°	1981.1	2033.8	1813.7	1973.8	1993.8	2967.0	4082.2	3229.0	4235.0	4564.3	3567.4
77.5°	1868.3	1915.6	1711.8	1861.0	1917.4	2685.1	3894.8	3016.2	3825.7	4195.0	3234.5
80°	1500.8	1564.5	1397.1	1495.3	1526.3	2013.8	3123.5	2470.4	3112.6	3481.9	2643.2
82.5°	1026.0	1084.2	973.2	1046.0	1086.0	1320.7	2159.3	1779.1	2115.7	2341.3	1655.4
85°	593.0	662.2	596.7	587.6	607.6	696.7	1162.4	946.0	984.2	1035.1	734.9
87.5°	372.9	383.8	351.1	352.9	356.6	382.0	529.4	422.0	465.7	527.6	445.7
90°	296.5	307.4	283.8	285.6	280.2	303.8	396.6	322.0	358.4	412.9	352.9
92.5°	256.5	263.8	247.4	251.0	247.4	265.6	331.1	265.6	294.7	338.4	289.2
95°	218.3	223.8	214.7	216.5	205.6	216.5	258.3	201.9	223.8	254.7	216.5
97.5°	174.6	180.1	174.6	174.6	163.7	169.2	198.3	156.4	171.0	191.0	163.7
100°	138.3	140.1	138.3	136.4	127.3	127.3	138.3	112.8	118.2	131.0	112.8
102.5°	105.5	107.3	105.5	103.7	92.8	87.3	87.3	72.8	76.4	80.0	70.9
105°	83.7	85.5	83.7	80.0	70.9	65.5	63.7	52.8	52.8	54.6	49.1
107.5°	69.1	69.1	69.1	65.5	60.0	52.8	47.3	38.2	38.2	40.0	38.2
110°	56.4	56.4	54.6	52.8	47.3	41.8	36.4	30.9	30.9	30.9	29.1

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CATALOG NUMBER: ARC-CA6-100-760-U-33-6-5-X

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	47.3	47.3	45.5	43.7	38.2	32.7	29.1	25.5	25.5	25.5	23.6
115°	40.0	40.0	38.2	36.4	32.7	27.3	23.6	20.0	20.0	20.0	20.0
117.5°	34.6	34.6	32.7	30.9	27.3	23.6	20.0	16.4	16.4	16.4	16.4
120°	30.9	29.1	27.3	25.5	21.8	20.0	16.4	14.6	14.6	14.6	12.7
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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8
2.5°	109.1	109.1	107.3	107.3	107.3	105.5	105.5	107.3	107.3	107.3	107.3
5°	116.4	114.6	111.0	107.3	105.5	103.7	101.9	101.9	105.5	105.5	105.5
7.5°	131.0	129.2	123.7	120.1	116.4	112.8	111.0	109.1	111.0	112.8	112.8
10°	145.5	143.7	136.4	131.0	129.2	125.5	123.7	121.9	123.7	123.7	123.7
12.5°	160.1	156.4	151.0	143.7	140.1	138.3	136.4	134.6	134.6	134.6	134.6
15°	172.8	167.4	161.9	156.4	152.8	149.2	147.4	145.5	147.4	149.2	149.2
17.5°	192.8	187.4	174.6	165.5	163.7	160.1	158.3	158.3	160.1	161.9	161.9
20°	214.7	203.7	189.2	180.1	178.3	172.8	171.0	171.0	172.8	174.6	174.6
22.5°	232.9	225.6	203.7	191.0	189.2	187.4	189.2	189.2	191.0	192.8	192.8
25°	296.5	267.4	236.5	227.4	225.6	221.9	218.3	216.5	218.3	223.8	225.6
27.5°	400.2	347.5	289.2	269.2	269.2	272.9	280.2	283.8	276.5	272.9	274.7
30°	469.3	398.4	314.7	296.5	300.2	318.4	334.7	345.6	338.4	332.9	334.7
32.5°	451.2	385.7	325.6	322.0	332.9	347.5	356.6	362.0	376.6	382.0	389.3
35°	411.1	362.0	329.3	343.8	351.1	351.1	351.1	351.1	378.4	403.9	411.1
37.5°	502.1	418.4	391.1	396.6	391.1	385.7	391.1	405.7	429.3	449.3	454.8
40°	589.4	483.9	438.4	434.8	433.0	451.2	483.9	509.4	516.6	498.4	502.1
42.5°	685.8	547.6	489.4	494.8	509.4	538.5	574.9	574.9	574.9	558.5	563.9
45°	776.8	622.2	587.6	602.1	602.1	616.7	636.7	624.0	640.3	647.6	656.7
47.5°	884.1	722.2	645.8	633.1	634.9	664.0	671.3	665.8	676.7	664.0	664.0
50°	916.9	738.6	678.5	727.7	727.7	694.9	667.6	671.3	702.2	736.8	744.0
52.5°	1166.1	915.0	860.5	911.4	933.2	876.8	876.8	884.1	891.4	916.9	924.1
55°	1744.6	1304.3	1140.6	1258.9	1275.2	1309.8	1404.4	1389.8	1306.2	1264.3	1260.7
57.5°	2608.7	1935.6	1420.8	1588.1	1693.6	1835.5	1906.5	1864.6	1751.8	1713.6	1671.8
60°	3334.5	2650.5	1841.0	2132.1	2290.3	2314.0	2288.5	2292.1	2206.6	2233.9	2223.0
62.5°	3603.7	3252.7	2366.7	2543.2	2566.8	2494.1	2561.4	2716.0	2577.7	2495.9	2483.1
65°	3683.8	3476.4	2514.1	2399.5	2377.6	2364.9	2630.5	2888.8	2579.6	2388.6	2386.7
67.5°	3603.7	3247.2	2326.7	2137.5	2188.4	2292.1	2637.8	2734.2	2443.1	2232.1	2217.6
70°	3500.1	2877.9	2093.8	1930.1	2048.4	2199.4	2419.5	2381.3	2266.7	2079.3	2070.2
72.5°	3123.5	2494.1	1944.7	1808.2	1942.9	1986.5	2095.7	2079.3	2112.0	1993.8	1988.3
75°	2796.0	2290.3	1855.5	1695.5	1760.9	1753.7	1841.0	1861.0	1953.8	1902.8	1882.8
77.5°	2412.2	1992.0	1635.4	1449.9	1475.3	1473.5	1515.4	1528.1	1593.6	1597.2	1575.4
80°	1888.3	1560.8	1277.0	1091.5	1095.1	1062.4	1067.8	1066.0	1078.8	1093.3	1073.3
82.5°	1084.2	871.4	724.0	605.8	580.3	536.7	527.6	531.2	525.7	522.1	522.1
85°	531.2	412.9	380.2	340.2	325.6	314.7	320.2	331.1	336.5	325.6	320.2
87.5°	358.4	309.3	294.7	278.3	271.1	260.1	267.4	276.5	283.8	274.7	272.9
90°	283.8	245.6	241.9	238.3	232.9	223.8	231.0	241.9	247.4	240.1	236.5
92.5°	229.2	198.3	198.3	196.5	191.0	183.7	192.8	201.9	207.4	201.9	200.1
95°	176.5	152.8	158.3	154.6	149.2	147.4	152.8	160.1	163.7	160.1	160.1
97.5°	136.4	120.1	125.5	123.7	116.4	114.6	118.2	123.7	127.3	123.7	121.9
100°	92.8	85.5	92.8	92.8	85.5	81.9	85.5	91.0	92.8	92.8	91.0
102.5°	61.9	58.2	67.3	69.1	65.5	61.9	63.7	67.3	69.1	69.1	69.1
105°	43.7	43.7	52.8	54.6	50.9	47.3	50.9	52.8	52.8	52.8	52.8
107.5°	34.6	36.4	41.8	45.5	41.8	38.2	40.0	41.8	41.8	41.8	43.7
110°	29.1	29.1	34.6	38.2	34.6	32.7	32.7	32.7	32.7	34.6	38.2

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CATALOG NUMBER: ARC-CA6-100-760-U-33-6-5-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	23.6	25.5	29.1	30.9	29.1	27.3	27.3	27.3	27.3	29.1	34.6
115°	20.0	21.8	25.5	25.5	23.6	23.6	23.6	21.8	21.8	23.6	32.7
117.5°	16.4	18.2	20.0	20.0	20.0	18.2	18.2	18.2	18.2	21.8	34.6
120°	14.6	14.6	16.4	16.4	14.6	14.6	14.6	14.6	12.7	18.2	27.3
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)