

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: P588614

Luminaire Tested: **ARC-CA6-80-727-U-33-X-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2109-372-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC-CA6-80-727-U-33-X-5-X-GHSS
Description: GENERATIONS SERIES AVENUE WITH NO CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD
Light Source: (3) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5330 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.08')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U3 - G5

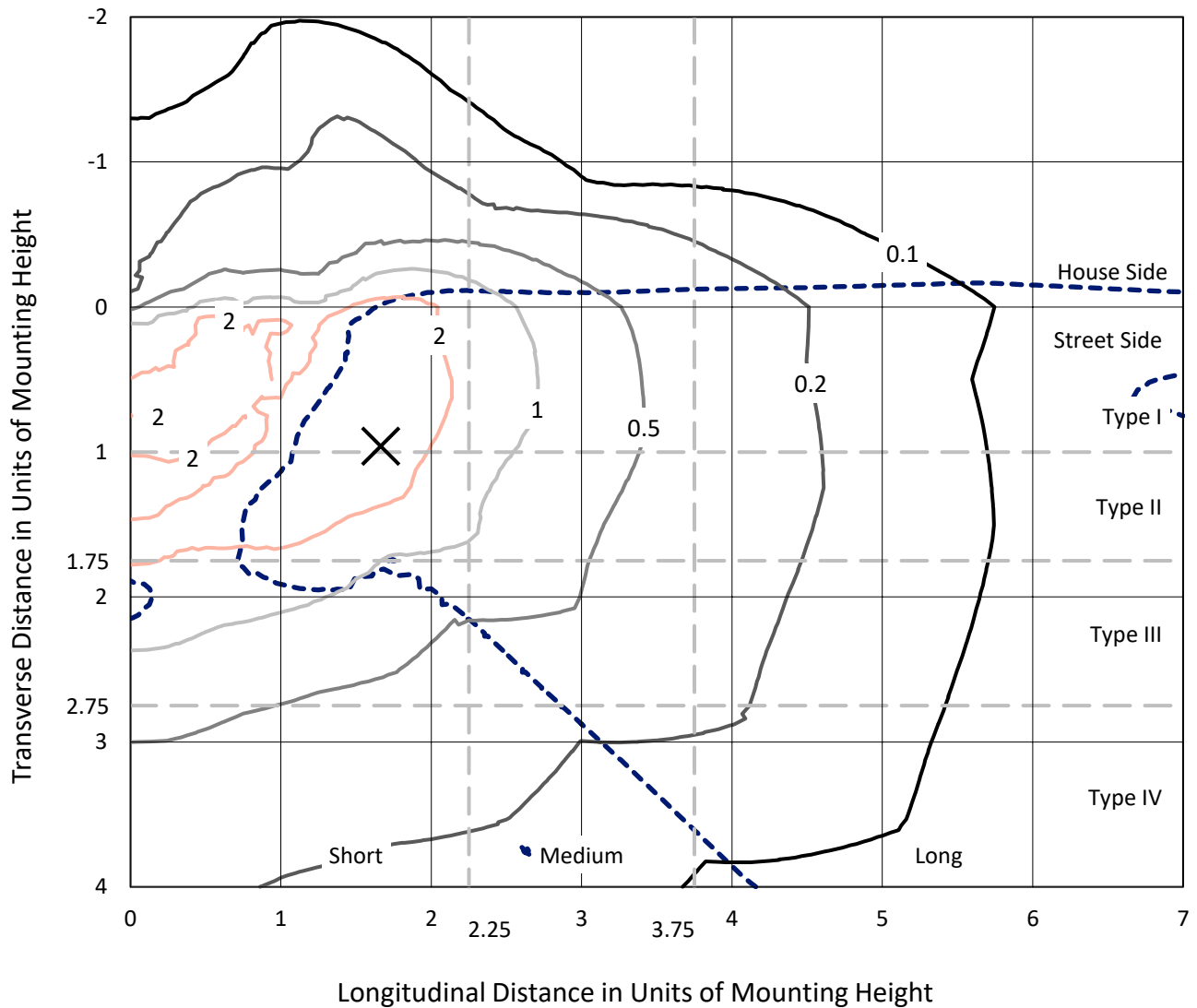
Input Watts (W): 42.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

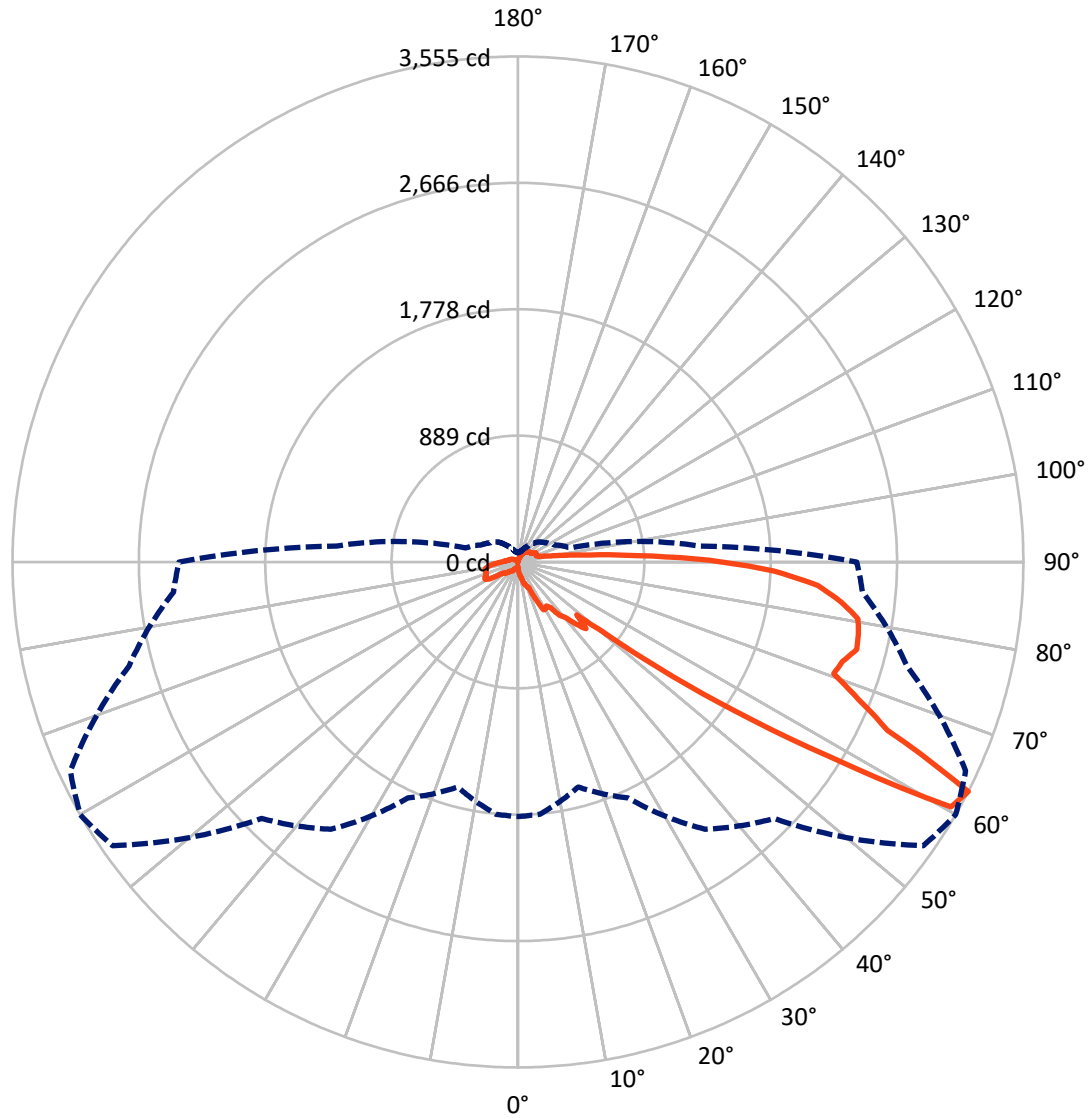
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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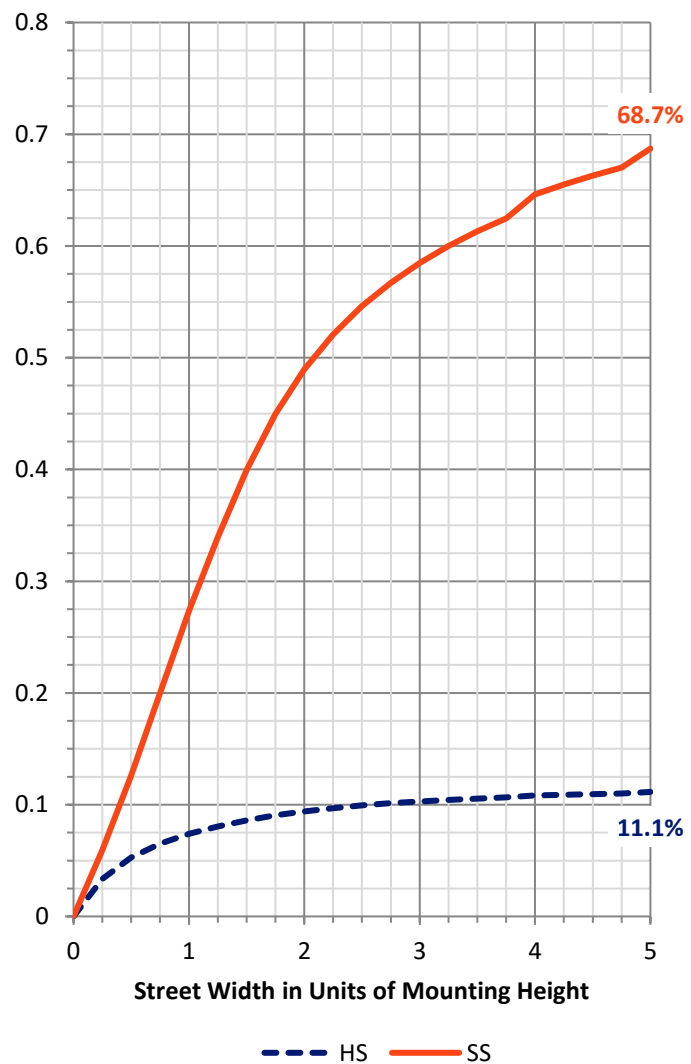
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	625.3	124.7	749.9
	% Fixture	11.7	2.3	14.1
Street Side	Lumens	4071.3	508.7	4580.1
	% Fixture	76.4	9.5	85.9
Total	Lumens	4696.6	633.4	5330.0
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.1
10°-20°	25.6	0.5
20°-30°	76.2	1.4
30°-40°	153.1	2.9
40°-50°	269.5	5.1
50°-60°	744.1	14.0
60°-70°	1286.6	24.1
70°-80°	1194.2	22.4
80°-90°	941.7	17.7
90°-100°	298.8	5.6
100°-110°	106.6	2.0
110°-120°	87.6	1.6
120°-130°	57.6	1.1
130°-140°	41.0	0.8
140°-150°	26.5	0.5
150°-160°	12.2	0.2
160°-170°	3.0	0.1
170°-180°	0.1	0.0
0°-90°	4696.6	88.1
0°-180°	5330.0	100.0

Coefficient of Utilization



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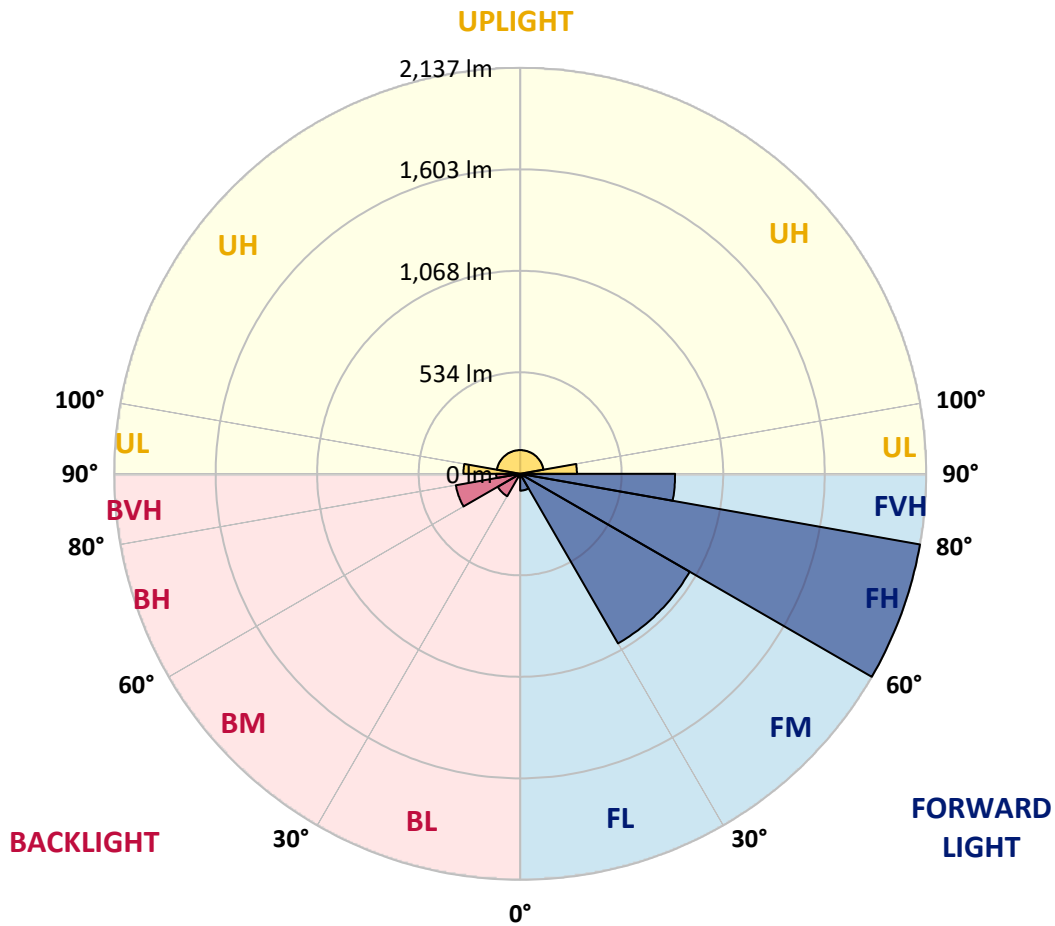
CATALOG NUMBER: ARC-CA6-80-727-U-33-X-5-X-GHSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	88.5	1.7			
FM (30°-60°)	1030.6	19.3			
FH (60°-80°)	2136.9	40.1			G2/5000
FVH (80°-90°)	815.4	15.3			G5
BL (0°-30°)	18.9	0.4	B0/110		
BM (30°-60°)	136.1	2.6	B0/220		
BH (60°-80°)	343.9	6.5	B1/500		G1/500
BVH (80°-90°)	126.3	2.4			G2/225
UL (90°-100°)	298.8	5.6		U3/500	
UH (100°-180°)	124.7	2.3		U3/500	

BUG Rating: B1-U3-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
2.5°	63.2	61.5	62.3	62.3	63.2	59.9	56.6	54.1	51.7	48.4	44.3
5°	90.2	88.6	86.1	85.3	83.7	80.4	75.5	73.8	68.9	62.3	54.1
7.5°	109.9	109.1	108.3	105.8	104.2	99.3	93.5	91.0	85.3	76.3	66.4
10°	124.7	124.7	125.5	121.4	114.0	109.9	105.0	103.4	99.3	86.9	74.6
12.5°	137.0	135.3	128.8	125.5	122.2	123.0	123.9	123.0	121.4	100.9	83.7
15°	148.5	146.8	141.9	137.8	135.3	143.5	161.6	160.0	159.1	127.1	97.6
17.5°	156.7	156.7	161.6	164.9	169.0	156.7	153.4	158.3	164.1	140.3	110.7
20°	180.5	177.2	173.1	169.8	190.3	181.3	184.6	190.3	194.4	156.7	121.4
22.5°	169.8	170.6	188.7	195.2	185.4	180.5	191.9	194.4	195.2	179.6	126.3
25°	232.1	221.5	214.9	235.4	233.8	269.9	280.5	287.9	287.9	243.6	176.4
27.5°	320.7	320.7	348.6	402.7	393.7	394.5	382.2	381.4	397.0	411.8	268.2
30°	347.8	356.8	434.7	461.8	491.3	454.4	414.2	383.1	389.6	469.2	312.5
32.5°	356.0	364.2	458.5	429.0	439.7	424.9	430.6	367.5	351.9	432.3	304.3
35°	310.9	322.4	399.5	361.7	341.2	385.5	438.8	393.7	386.3	355.2	275.6
37.5°	415.1	420.8	447.9	442.1	448.7	451.1	515.1	474.1	482.3	429.0	348.6
40°	476.6	470.0	575.8	601.3	591.4	582.4	576.6	513.5	523.3	497.1	471.6
42.5°	585.7	578.3	652.9	668.5	671.0	647.2	674.3	594.7	570.1	515.9	587.3
45°	593.0	597.1	667.7	627.5	669.3	712.8	762.0	670.2	625.9	534.8	682.5
47.5°	525.0	543.0	698.0	662.8	621.8	583.2	602.1	555.3	519.2	423.3	656.2
50°	535.6	543.0	642.3	600.4	499.5	618.5	784.2	750.5	711.2	525.0	632.4
52.5°	757.9	754.6	798.1	800.6	826.0	928.5	1255.8	1228.8	1235.3	1022.0	941.7
55°	1039.3	1037.6	1147.5	1323.1	1468.3	1518.3	1945.7	1839.0	1790.6	1583.9	1662.7
57.5°	1343.6	1357.5	1405.9	1652.0	1900.5	1965.3	2634.7	2579.7	2473.1	2066.2	2276.2
60°	1664.3	1656.1	1584.7	1746.3	2144.2	2467.3	3471.3	3497.6	3285.1	2601.0	2484.6
62.5°	1790.6	1780.0	1638.1	1830.8	2294.3	2551.0	3479.5	3555.0	3473.8	2832.4	2432.1
65°	1769.3	1744.7	1556.0	1707.8	1936.6	2170.4	3106.3	2856.1	2989.0	2896.3	2299.2
67.5°	1685.6	1679.9	1504.4	1588.0	1737.3	1767.7	2837.3	2584.6	2632.2	2953.8	2338.6
70°	1580.6	1579.0	1446.1	1509.3	1721.7	1690.6	2626.5	2355.0	2327.1	2643.7	2348.4
72.5°	1583.9	1582.3	1435.5	1456.8	1684.8	1634.0	2604.3	2387.8	2336.9	2491.1	2235.2
75°	1611.0	1612.6	1456.8	1480.6	1736.5	1645.4	2656.8	2460.8	2409.1	2476.4	2145.0
77.5°	1584.7	1597.9	1444.5	1497.8	1769.3	1643.8	2632.2	2446.8	2373.8	2355.0	1972.7
80°	1497.0	1515.0	1377.2	1438.7	1739.8	1665.9	2611.7	2425.5	2332.8	2229.5	1848.9
82.5°	1313.2	1332.1	1226.3	1282.9	1618.4	1574.9	2468.2	2287.7	2204.9	2024.4	1687.3
85°	1128.7	1172.2	1120.5	1128.7	1428.9	1442.0	2274.6	2115.5	2058.0	1900.5	1632.3
87.5°	931.8	969.5	921.2	862.9	1070.4	1145.9	1880.9	1802.1	1786.5	1677.4	1416.6
90°	689.8	724.3	695.6	619.3	725.1	772.7	1386.2	1342.8	1376.4	1251.7	973.6
92.5°	500.4	506.1	472.5	409.3	483.1	506.1	908.8	842.4	881.8	766.9	570.9
95°	334.7	348.6	322.4	295.3	350.3	352.7	560.2	511.0	489.7	440.5	341.2
97.5°	245.3	246.1	236.2	211.6	246.1	249.4	372.4	335.5	316.6	296.1	236.2
100°	194.4	194.4	179.6	164.1	171.4	178.0	259.2	233.8	223.9	214.9	178.0
102.5°	169.8	169.0	156.7	141.1	140.3	143.5	196.0	178.8	171.4	165.7	140.3
105°	160.8	160.0	147.6	131.2	127.1	124.7	163.2	151.7	146.8	141.9	126.3
107.5°	159.1	157.5	145.2	130.4	123.9	117.3	146.8	137.0	137.8	132.9	121.4
110°	160.8	160.8	150.1	141.1	130.4	121.4	147.6	137.0	140.3	138.6	126.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	156.7	160.8	156.7	150.9	139.4	132.1	154.2	141.9	146.0	146.0	130.4
115°	147.6	151.7	151.7	146.0	135.3	132.9	152.6	141.9	143.5	141.1	121.4
117.5°	135.3	137.8	136.2	129.6	120.6	118.9	141.9	137.0	137.0	129.6	113.2
120°	126.3	121.4	114.8	109.9	105.0	109.1	128.0	123.0	118.9	115.7	103.4
122.5°	113.2	107.5	100.1	97.6	94.3	100.1	116.5	112.4	108.3	106.6	97.6
125°	93.5	93.5	90.2	88.6	87.8	96.0	114.8	110.7	105.0	101.7	91.0
127.5°	90.2	90.2	87.8	86.1	86.9	96.8	112.4	108.3	101.7	97.6	87.8
130°	91.0	89.4	86.1	83.7	84.5	96.0	111.6	106.6	100.1	96.8	87.8
132.5°	86.1	84.5	82.0	80.4	79.6	91.0	105.8	103.4	98.4	91.0	81.2
135°	83.7	82.0	80.4	79.6	79.6	88.6	100.9	98.4	93.5	85.3	74.6
137.5°	82.8	81.2	77.9	77.1	76.3	84.5	94.3	92.7	87.8	80.4	71.4
140°	78.7	76.3	73.8	73.0	73.0	79.6	89.4	87.8	82.8	77.1	68.9
142.5°	73.0	71.4	68.9	68.9	69.7	76.3	86.9	86.1	80.4	73.8	66.4
145°	69.7	68.1	66.4	67.3	68.1	73.8	82.0	81.2	77.1	71.4	64.0
147.5°	64.0	63.2	61.5	60.7	62.3	67.3	76.3	76.3	73.8	66.4	59.1
150°	55.8	55.0	53.3	52.5	54.1	59.1	66.4	66.4	64.0	56.6	50.0
152.5°	46.8	45.9	45.9	46.8	48.4	50.9	57.4	58.2	55.8	48.4	42.7
155°	41.0	40.2	40.2	41.0	43.5	45.9	50.0	50.0	47.6	42.7	36.9
157.5°	35.3	34.5	34.5	35.3	37.7	39.4	43.5	42.7	41.0	36.9	32.0
160°	27.1	26.2	26.2	27.1	29.5	31.2	34.5	34.5	33.6	31.2	27.1
162.5°	20.5	19.7	19.7	20.5	22.1	23.0	25.4	26.2	26.2	24.6	21.3
165°	15.6	14.8	14.8	14.8	16.4	17.2	18.0	18.0	18.0	17.2	14.8
167.5°	9.8	9.0	9.0	9.8	10.7	10.7	11.5	11.5	10.7	10.7	9.0
170°	4.9	4.1	4.1	4.9	4.9	4.9	4.1	3.3	3.3	3.3	3.3
172.5°	1.6	0.8	2.5	2.5	1.6	0.0	0.0	0.8	0.8	0.8	0.0
175°	1.6	0.8	2.5	2.5	1.6	0.0	0.0	0.8	0.0	0.8	0.0
177.5°	0.8	0.8	2.5	2.5	1.6	0.0	0.0	0.0	0.0	0.8	0.0
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
2.5°	42.7	41.8	38.6	33.6	28.7	23.8	23.0	23.8	24.6	25.4	26.2
5°	50.9	47.6	41.0	33.6	27.1	20.5	17.2	15.6	14.8	15.6	16.4
7.5°	61.5	57.4	49.2	40.2	32.0	25.4	21.3	17.2	14.8	14.8	15.6
10°	68.9	64.0	54.1	44.3	36.1	28.7	23.8	19.7	17.2	15.6	15.6
12.5°	77.1	70.5	57.4	46.8	37.7	31.2	26.2	22.1	19.7	18.0	18.0
15°	86.1	78.7	63.2	49.2	40.2	32.8	28.7	24.6	21.3	19.7	19.7
17.5°	100.9	88.6	66.4	51.7	41.8	34.5	29.5	25.4	22.1	20.5	20.5
20°	107.5	93.5	67.3	54.1	44.3	36.1	30.3	25.4	23.0	21.3	21.3
22.5°	107.5	92.7	68.9	55.8	46.8	37.7	31.2	26.2	23.0	21.3	21.3
25°	135.3	101.7	70.5	59.9	49.2	39.4	32.8	27.1	23.8	22.1	22.1
27.5°	189.5	132.9	81.2	64.0	52.5	41.8	34.5	28.7	24.6	23.0	23.0
30°	208.3	148.5	92.7	74.6	57.4	44.3	36.1	30.3	26.2	23.8	23.8
32.5°	212.4	146.0	99.3	82.0	65.6	48.4	37.7	32.0	27.1	24.6	24.6
35°	191.9	135.3	99.3	85.3	70.5	54.1	41.8	33.6	27.9	25.4	24.6
37.5°	223.9	146.0	101.7	86.1	73.0	58.2	46.8	36.1	29.5	26.2	26.2
40°	289.6	173.1	114.0	91.0	73.8	60.7	51.7	40.2	32.0	27.9	27.9
42.5°	338.8	195.2	127.1	103.4	80.4	64.0	53.3	43.5	35.3	30.3	29.5
45°	380.6	216.5	138.6	114.8	91.9	71.4	56.6	46.8	38.6	33.6	32.8
47.5°	388.0	227.2	147.6	126.3	100.9	78.7	61.5	50.0	42.7	36.9	36.1
50°	374.9	228.0	150.9	133.7	110.7	86.9	67.3	54.1	45.9	40.2	40.2
52.5°	535.6	284.6	165.7	137.8	114.0	93.5	74.6	59.1	49.2	44.3	44.3
55°	966.3	460.2	214.1	163.2	122.2	98.4	81.2	66.4	54.1	48.4	48.4
57.5°	1561.8	718.5	283.0	218.2	157.5	114.0	88.6	73.8	60.7	52.5	52.5
60°	2069.5	1013.8	344.5	265.8	206.7	156.7	107.5	83.7	68.1	58.2	57.4
62.5°	2382.9	1279.6	380.6	283.8	236.2	198.5	144.4	105.0	77.1	66.4	64.8
65°	2313.1	1412.5	396.2	282.2	234.6	211.6	172.3	130.4	92.7	76.3	73.8
67.5°	2124.5	1413.3	393.7	269.9	222.3	201.0	171.4	141.1	107.5	86.1	82.8
70°	2030.1	1388.7	381.4	260.8	212.4	187.8	159.1	129.6	105.8	91.9	90.2
72.5°	1985.0	1372.3	374.0	259.2	210.8	182.9	150.9	115.7	95.2	87.8	89.4
75°	1995.7	1382.1	377.3	261.7	214.1	185.4	147.6	107.5	83.7	75.5	77.1
77.5°	1971.9	1362.5	382.2	260.8	212.4	181.3	137.8	98.4	76.3	68.1	67.3
80°	1991.6	1319.8	370.8	252.6	200.1	164.9	122.2	87.8	69.7	64.0	63.2
82.5°	1840.7	1149.2	329.7	230.5	181.3	141.9	102.5	77.1	65.6	59.1	59.1
85°	1687.3	931.8	283.0	202.6	149.3	111.6	82.0	67.3	57.4	52.5	52.5
87.5°	1280.4	667.7	219.0	166.5	124.7	96.0	74.6	64.8	56.6	53.3	52.5
90°	791.6	411.8	163.2	132.9	105.8	85.3	70.5	62.3	55.8	53.3	53.3
92.5°	442.9	263.3	126.3	109.1	91.0	76.3	64.8	56.6	50.9	48.4	48.4
95°	300.2	196.9	108.3	97.6	81.2	67.3	56.6	49.2	44.3	41.0	41.0
97.5°	217.4	155.0	96.0	87.8	73.0	59.1	50.0	42.7	38.6	36.9	36.9
100°	166.5	125.5	86.9	78.7	64.8	51.7	43.5	36.9	32.8	31.2	31.2
102.5°	133.7	105.8	78.7	71.4	57.4	45.9	36.9	30.3	27.1	26.2	25.4
105°	120.6	98.4	73.8	66.4	52.5	41.8	32.8	27.1	23.8	22.1	22.1
107.5°	117.3	98.4	73.0	64.8	50.0	39.4	29.5	24.6	21.3	19.7	19.7
110°	124.7	104.2	73.8	63.2	46.8	36.1	27.1	22.1	18.9	18.0	18.0



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CATALOG NUMBER: ARC-CA6-80-727-U-33-X-5-X-GHSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	128.8	105.0	70.5	59.1	43.5	32.8	25.4	20.5	18.0	16.4	16.4
115°	118.1	94.3	64.8	52.5	38.6	29.5	23.8	19.7	16.4	14.8	14.8
117.5°	114.0	88.6	63.2	45.9	35.3	27.1	22.1	18.0	15.6	13.9	13.9
120°	114.0	86.1	55.8	40.2	32.0	24.6	20.5	16.4	13.9	13.1	13.1
122.5°	109.9	79.6	49.2	35.3	27.9	21.3	18.0	14.8	13.1	11.5	11.5
125°	100.1	73.8	40.2	32.0	25.4	19.7	16.4	13.9	11.5	10.7	10.7
127.5°	94.3	73.0	37.7	29.5	23.0	18.0	14.8	12.3	9.8	9.0	9.0
130°	93.5	73.0	35.3	26.2	20.5	15.6	13.1	10.7	9.0	8.2	8.2
132.5°	83.7	66.4	33.6	24.6	18.9	14.8	12.3	9.8	8.2	7.4	7.4
135°	75.5	61.5	32.8	23.0	17.2	13.1	10.7	9.0	6.6	6.6	6.6
137.5°	69.7	56.6	32.8	21.3	15.6	11.5	9.8	8.2	5.7	5.7	5.7
140°	65.6	52.5	32.0	20.5	13.9	10.7	9.0	6.6	4.9	4.9	4.9
142.5°	61.5	49.2	29.5	19.7	13.1	9.0	8.2	6.6	4.9	4.1	4.1
145°	56.6	45.1	26.2	18.0	12.3	8.2	7.4	5.7	4.1	3.3	3.3
147.5°	51.7	40.2	23.0	15.6	11.5	7.4	6.6	4.9	3.3	3.3	3.3
150°	44.3	34.5	20.5	13.9	9.8	6.6	5.7	4.1	3.3	2.5	2.5
152.5°	36.1	29.5	18.0	12.3	9.0	5.7	4.9	3.3	2.5	1.6	1.6
155°	32.0	26.2	16.4	10.7	7.4	4.9	4.1	2.5	2.5	1.6	1.6
157.5°	27.9	23.0	14.8	9.0	5.7	3.3	3.3	2.5	1.6	1.6	0.8
160°	23.0	19.7	12.3	7.4	4.9	2.5	2.5	1.6	1.6	0.8	0.8
162.5°	18.0	14.8	9.0	5.7	3.3	1.6	1.6	1.6	1.6	0.8	0.0
165°	12.3	10.7	6.6	4.1	2.5	0.8	0.8	1.6	0.8	0.8	0.0
167.5°	8.2	6.6	4.1	2.5	1.6	0.0	0.8	0.8	0.8	0.8	0.0
170°	3.3	3.3	2.5	1.6	0.0	0.0	0.0	0.8	0.8	0.8	0.0
172.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.0
175°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.8	0.0
177.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8	0.0
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

(END OF REPORT)