

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: P588626

Luminaire Tested: **ARC-CA6-90-727-U-33-X-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588626
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-CA6-90-727-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: 5890 lumens
Efficiency: N/A
Efficacy: 124.8 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

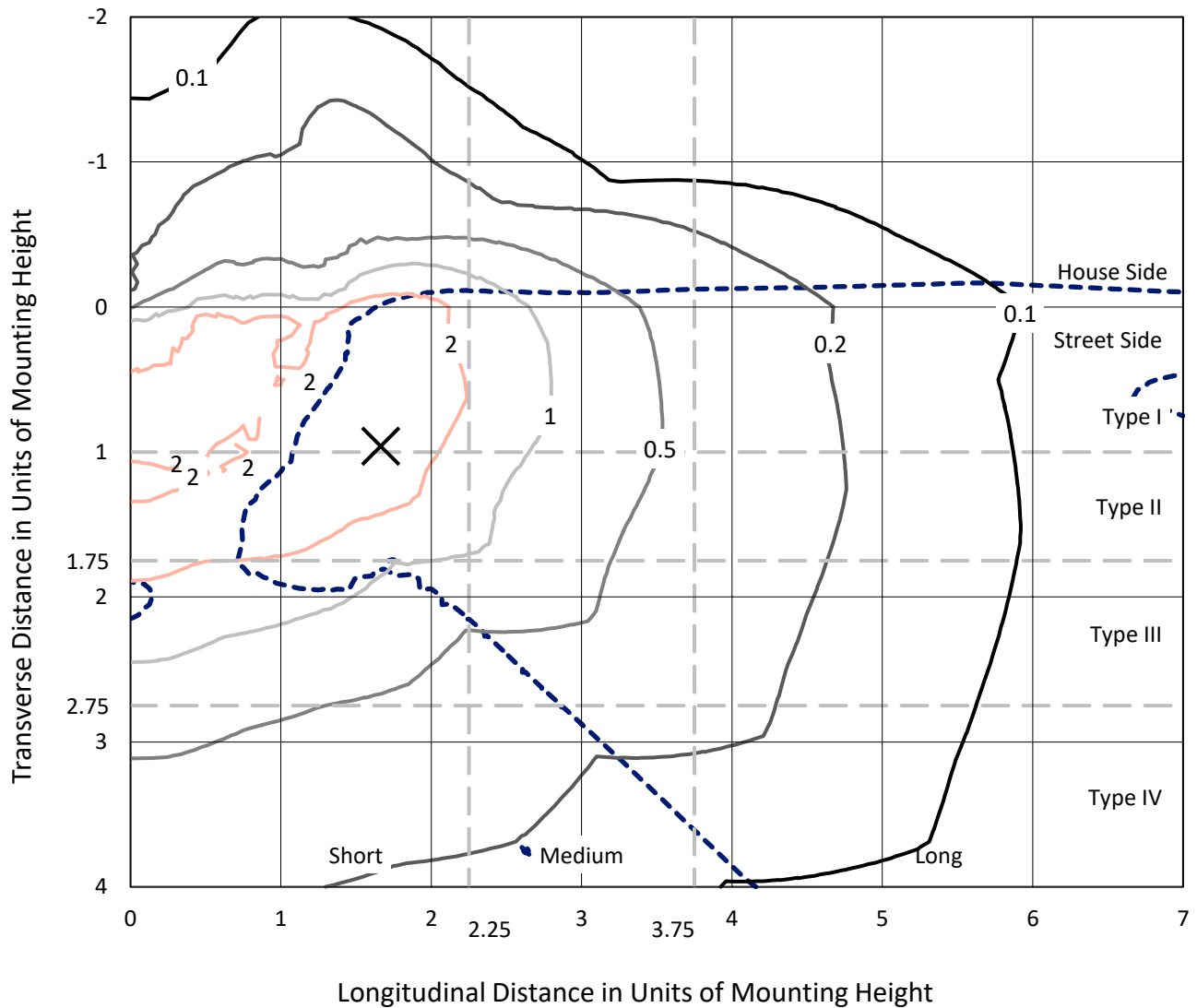
Input Watts (W): 47.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

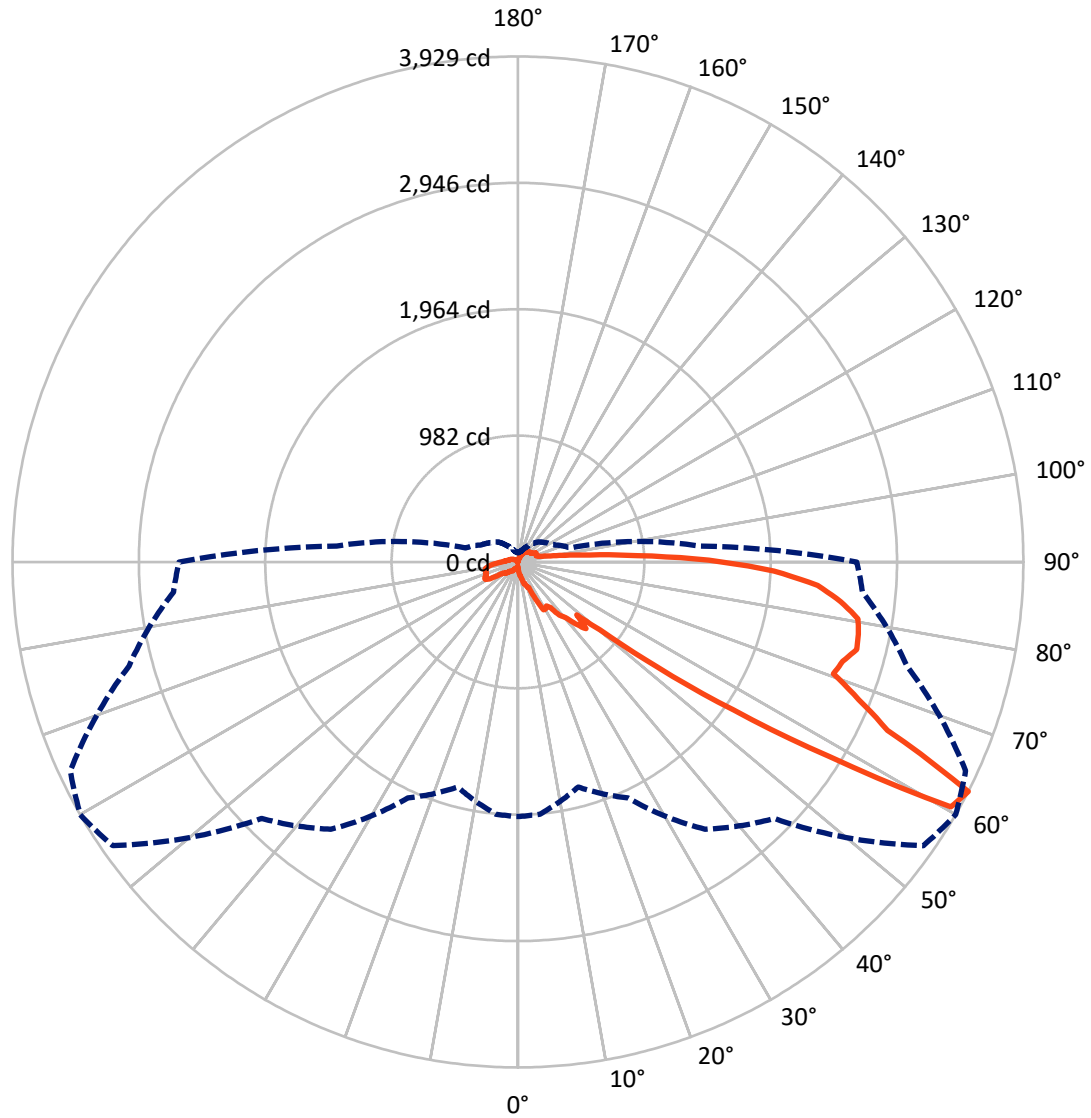
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 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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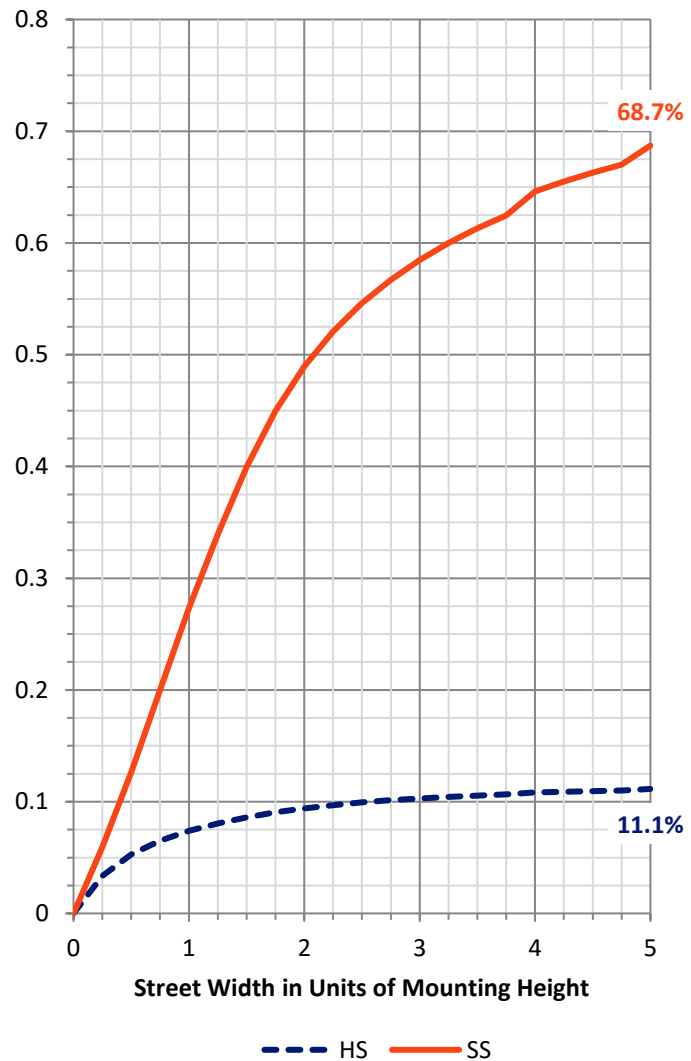
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	691.0	137.8	828.7
	% Fixture	11.7	2.3	14.1
Street Side	Lumens	4499.1	562.2	5061.3
	% Fixture	76.4	9.5	85.9
Total	Lumens	5190.1	699.9	5890.0
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.1	0.1
10°-20°	28.3	0.5
20°-30°	84.2	1.4
30°-40°	169.2	2.9
40°-50°	297.8	5.1
50°-60°	822.3	14.0
60°-70°	1421.7	24.1
70°-80°	1319.7	22.4
80°-90°	1040.6	17.7
90°-100°	330.2	5.6
100°-110°	117.8	2.0
110°-120°	96.8	1.6
120°-130°	63.7	1.1
130°-140°	45.3	0.8
140°-150°	29.3	0.5
150°-160°	13.5	0.2
160°-170°	3.3	0.1
170°-180°	0.1	0.0
0°-90°	5190.1	88.1
0°-180°	5890.0	100.0

Coefficient of Utilization



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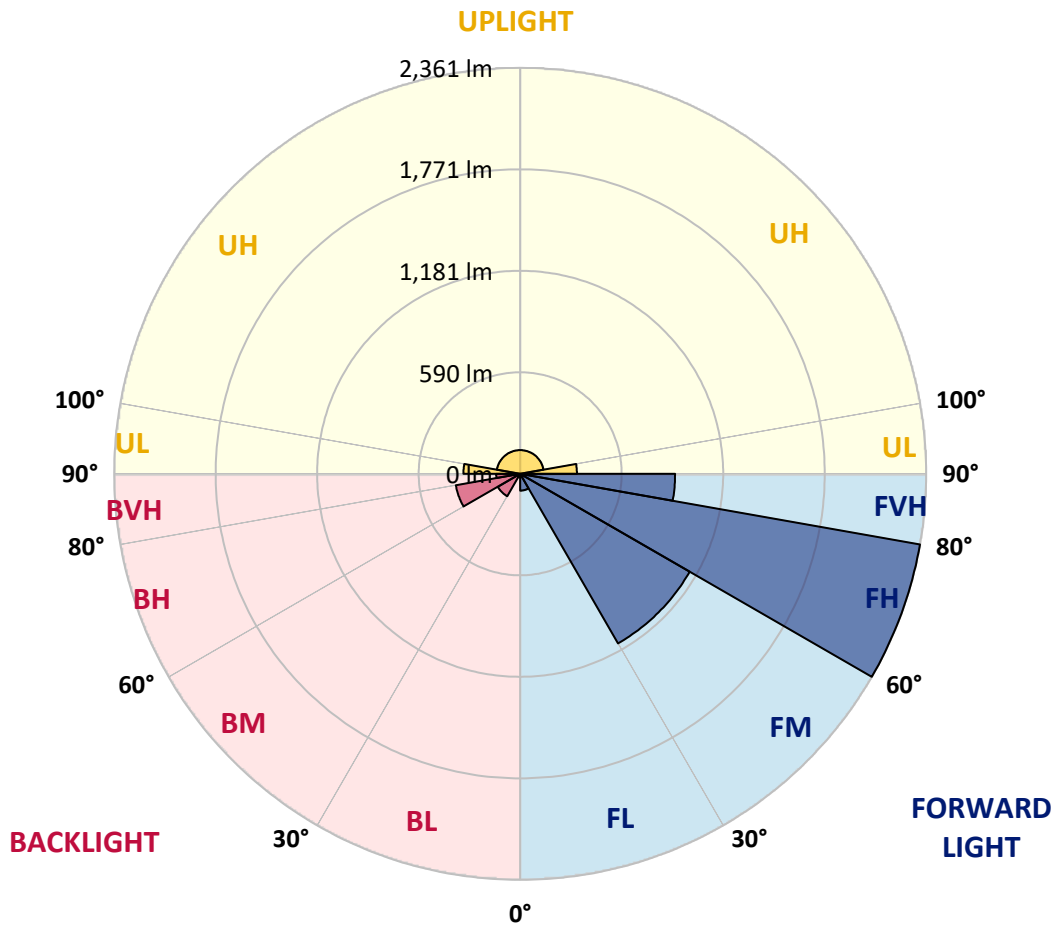
CATALOG NUMBER: ARC-CA6-90-727-U-33-X-5-X-GHSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	97.8	1.7			
FM (30°-60°)	1138.9	19.3			
FH (60°-80°)	2361.4	40.1			G2/5000
FVH (80°-90°)	901.1	15.3			G5
BL (0°-30°)	20.9	0.4	B0/110		
BM (30°-60°)	150.5	2.6	B0/220		
BH (60°-80°)	380.1	6.5	B1/500		G1/500
BVH (80°-90°)	139.5	2.4			G2/225
UL (90°-100°)	330.2	5.6		U3/500	
UH (100°-180°)	137.8	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°	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
2.5°	69.8	68.0	68.9	68.9	69.8	66.2	62.5	59.8	57.1	53.5	48.9
5°	99.7	97.9	95.2	94.3	92.5	88.8	83.4	81.6	76.1	68.9	59.8
7.5°	121.5	120.6	119.7	116.9	115.1	109.7	103.3	100.6	94.3	84.3	73.4
10°	137.8	137.8	138.7	134.2	126.0	121.5	116.0	114.2	109.7	96.1	82.5
12.5°	151.4	149.6	142.3	138.7	135.1	136.0	136.9	136.0	134.2	111.5	92.5
15°	164.1	162.3	156.8	152.3	149.6	158.6	178.6	176.8	175.8	140.5	107.9
17.5°	173.1	173.1	178.6	182.2	186.7	173.1	169.5	174.9	181.3	155.0	122.4
20°	199.4	195.8	191.3	187.6	210.3	200.3	203.9	210.3	214.8	173.1	134.2
22.5°	187.6	188.5	208.5	215.7	204.9	199.4	212.1	214.8	215.7	198.5	139.6
25°	256.5	244.7	237.5	260.1	258.3	298.2	310.0	318.2	318.2	269.2	194.9
27.5°	354.4	354.4	385.2	445.1	435.1	436.0	422.4	421.5	438.7	455.0	296.4
30°	384.3	394.3	480.4	510.3	543.0	502.2	457.8	423.3	430.6	518.5	345.4
32.5°	393.4	402.5	506.7	474.1	485.9	469.5	475.9	406.1	388.9	477.7	336.3
35°	343.5	356.2	441.4	399.7	377.1	426.0	484.9	435.1	426.9	392.5	304.6
37.5°	458.7	465.0	494.9	488.6	495.8	498.5	569.2	523.9	533.0	474.1	385.2
40°	526.6	519.4	636.3	664.4	653.5	643.6	637.2	567.4	578.3	549.3	521.2
42.5°	647.2	639.0	721.5	738.8	741.5	715.2	745.1	657.2	630.0	570.2	649.0
45°	655.4	659.9	737.8	693.4	739.7	787.7	842.1	740.6	691.6	591.0	754.2
47.5°	580.1	600.1	771.4	732.4	687.1	644.5	665.3	613.7	573.8	467.7	725.2
50°	591.9	600.1	709.7	663.5	552.0	683.5	866.6	829.4	785.9	580.1	698.9
52.5°	837.6	833.9	882.0	884.7	912.8	1026.1	1387.8	1357.8	1365.1	1129.4	1040.6
55°	1148.5	1146.6	1268.1	1462.1	1622.5	1677.8	2150.1	2032.2	1978.8	1750.3	1837.4
57.5°	1484.8	1500.2	1553.6	1825.6	2100.2	2171.8	2911.5	2850.8	2732.9	2283.3	2515.4
60°	1839.2	1830.1	1751.2	1929.8	2369.4	2726.6	3836.1	3865.1	3630.3	2874.3	2745.6
62.5°	1978.8	1967.0	1810.2	2023.2	2535.3	2819.0	3845.1	3928.5	3838.8	3129.9	2687.6
65°	1955.2	1928.0	1719.5	1887.2	2140.1	2398.4	3432.7	3156.2	3303.1	3200.6	2540.8
67.5°	1862.7	1856.4	1662.4	1754.9	1919.8	1953.4	3135.4	2856.2	2908.8	3264.1	2584.3
70°	1746.7	1744.9	1598.1	1667.9	1902.6	1868.2	2902.4	2602.4	2571.6	2921.5	2595.1
72.5°	1750.3	1748.5	1586.3	1609.8	1861.8	1805.6	2878.0	2638.7	2582.5	2752.9	2470.1
75°	1780.3	1782.1	1609.8	1636.1	1918.9	1818.3	2936.0	2719.3	2662.2	2736.5	2370.3
77.5°	1751.2	1765.7	1596.2	1655.2	1955.2	1816.5	2908.8	2703.9	2623.2	2602.4	2180.0
80°	1654.3	1674.2	1521.9	1589.9	1922.6	1841.0	2886.1	2680.3	2577.9	2463.7	2043.1
82.5°	1451.2	1472.1	1355.1	1417.7	1788.4	1740.4	2727.5	2528.1	2436.5	2237.1	1864.6
85°	1247.3	1295.3	1238.2	1247.3	1579.0	1593.5	2513.6	2337.7	2274.3	2100.2	1803.8
87.5°	1029.7	1071.4	1017.9	953.6	1182.9	1266.3	2078.5	1991.5	1974.2	1853.7	1565.4
90°	762.3	800.4	768.7	684.4	801.3	853.9	1531.9	1483.8	1521.0	1383.2	1075.9
92.5°	552.9	559.3	522.1	452.3	533.9	559.3	1004.3	930.9	974.4	847.5	630.9
95°	369.8	385.2	356.2	326.3	387.1	389.8	619.1	564.7	541.1	486.8	377.1
97.5°	271.0	271.9	261.1	233.9	271.9	275.6	411.5	370.7	349.9	327.2	261.1
100°	214.8	214.8	198.5	181.3	189.4	196.7	286.4	258.3	247.5	237.5	196.7
102.5°	187.6	186.7	173.1	155.9	155.0	158.6	216.6	197.6	189.4	183.1	155.0
105°	177.7	176.8	163.2	145.0	140.5	137.8	180.4	167.7	162.3	156.8	139.6
107.5°	175.8	174.0	160.4	144.1	136.9	129.6	162.3	151.4	152.3	146.8	134.2
110°	177.7	177.7	165.9	155.9	144.1	134.2	163.2	151.4	155.0	153.2	139.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	173.1	177.7	173.1	166.8	154.1	145.9	170.4	156.8	161.3	161.3	144.1
115°	163.2	167.7	167.7	161.3	149.6	146.8	168.6	156.8	158.6	155.9	134.2
117.5°	149.6	152.3	150.5	143.2	133.2	131.4	156.8	151.4	151.4	143.2	125.1
120°	139.6	134.2	126.9	121.5	116.0	120.6	141.4	136.0	131.4	127.8	114.2
122.5°	125.1	118.7	110.6	107.9	104.2	110.6	128.7	124.2	119.7	117.8	107.9
125°	103.3	103.3	99.7	97.9	97.0	106.1	126.9	122.4	116.0	112.4	100.6
127.5°	99.7	99.7	97.0	95.2	96.1	107.0	124.2	119.7	112.4	107.9	97.0
130°	100.6	98.8	95.2	92.5	93.4	106.1	123.3	117.8	110.6	107.0	97.0
132.5°	95.2	93.4	90.6	88.8	87.9	100.6	116.9	114.2	108.8	100.6	89.7
135°	92.5	90.6	88.8	87.9	87.9	97.9	111.5	108.8	103.3	94.3	82.5
137.5°	91.6	89.7	86.1	85.2	84.3	93.4	104.2	102.4	97.0	88.8	78.9
140°	87.0	84.3	81.6	80.7	80.7	87.9	98.8	97.0	91.6	85.2	76.1
142.5°	80.7	78.9	76.1	76.1	77.0	84.3	96.1	95.2	88.8	81.6	73.4
145°	77.0	75.2	73.4	74.3	75.2	81.6	90.6	89.7	85.2	78.9	70.7
147.5°	70.7	69.8	68.0	67.1	68.9	74.3	84.3	84.3	81.6	73.4	65.3
150°	61.6	60.7	58.9	58.0	59.8	65.3	73.4	73.4	70.7	62.5	55.3
152.5°	51.7	50.8	50.8	51.7	53.5	56.2	63.5	64.4	61.6	53.5	47.1
155°	45.3	44.4	44.4	45.3	48.0	50.8	55.3	55.3	52.6	47.1	40.8
157.5°	39.0	38.1	38.1	39.0	41.7	43.5	48.0	47.1	45.3	40.8	35.4
160°	29.9	29.0	29.0	29.9	32.6	34.4	38.1	38.1	37.2	34.4	29.9
162.5°	22.7	21.8	21.8	22.7	24.5	25.4	28.1	29.0	29.0	27.2	23.6
165°	17.2	16.3	16.3	16.3	18.1	19.0	19.9	19.9	19.9	19.0	16.3
167.5°	10.9	10.0	10.0	10.9	11.8	11.8	12.7	12.7	11.8	11.8	10.0
170°	5.4	4.5	4.5	5.4	5.4	5.4	4.5	3.6	3.6	3.6	3.6
172.5°	1.8	0.9	2.7	2.7	1.8	0.0	0.0	0.9	0.9	0.9	0.0
175°	1.8	0.9	2.7	2.7	1.8	0.0	0.0	0.9	0.0	0.9	0.0
177.5°	0.9	0.9	2.7	2.7	1.8	0.0	0.0	0.0	0.0	0.9	0.0
180°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
2.5°	47.1	46.2	42.6	37.2	31.7	26.3	25.4	26.3	27.2	28.1	29.0
5°	56.2	52.6	45.3	37.2	29.9	22.7	19.0	17.2	16.3	17.2	18.1
7.5°	68.0	63.5	54.4	44.4	35.4	28.1	23.6	19.0	16.3	16.3	17.2
10°	76.1	70.7	59.8	48.9	39.9	31.7	26.3	21.8	19.0	17.2	17.2
12.5°	85.2	78.0	63.5	51.7	41.7	34.4	29.0	24.5	21.8	19.9	19.9
15°	95.2	87.0	69.8	54.4	44.4	36.3	31.7	27.2	23.6	21.8	21.8
17.5°	111.5	97.9	73.4	57.1	46.2	38.1	32.6	28.1	24.5	22.7	22.7
20°	118.7	103.3	74.3	59.8	48.9	39.9	33.5	28.1	25.4	23.6	23.6
22.5°	118.7	102.4	76.1	61.6	51.7	41.7	34.4	29.0	25.4	23.6	23.6
25°	149.6	112.4	78.0	66.2	54.4	43.5	36.3	29.9	26.3	24.5	24.5
27.5°	209.4	146.8	89.7	70.7	58.0	46.2	38.1	31.7	27.2	25.4	25.4
30°	230.2	164.1	102.4	82.5	63.5	48.9	39.9	33.5	29.0	26.3	26.3
32.5°	234.8	161.3	109.7	90.6	72.5	53.5	41.7	35.4	29.9	27.2	27.2
35°	212.1	149.6	109.7	94.3	78.0	59.8	46.2	37.2	30.8	28.1	27.2
37.5°	247.5	161.3	112.4	95.2	80.7	64.4	51.7	39.9	32.6	29.0	29.0
40°	320.0	191.3	126.0	100.6	81.6	67.1	57.1	44.4	35.4	30.8	30.8
42.5°	374.4	215.7	140.5	114.2	88.8	70.7	58.9	48.0	39.0	33.5	32.6
45°	420.6	239.3	153.2	126.9	101.5	78.9	62.5	51.7	42.6	37.2	36.3
47.5°	428.7	251.1	163.2	139.6	111.5	87.0	68.0	55.3	47.1	40.8	39.9
50°	414.2	252.0	166.8	147.8	122.4	96.1	74.3	59.8	50.8	44.4	44.4
52.5°	591.9	314.5	183.1	152.3	126.0	103.3	82.5	65.3	54.4	48.9	48.9
55°	1067.8	508.5	236.6	180.4	135.1	108.8	89.7	73.4	59.8	53.5	53.5
57.5°	1725.9	794.0	312.7	241.1	174.0	126.0	97.9	81.6	67.1	58.0	58.0
60°	2287.0	1120.4	380.7	293.7	228.4	173.1	118.7	92.5	75.2	64.4	63.5
62.5°	2633.2	1414.0	420.6	313.6	261.1	219.4	159.5	116.0	85.2	73.4	71.6
65°	2556.2	1560.9	437.8	311.8	259.2	233.9	190.4	144.1	102.4	84.3	81.6
67.5°	2347.7	1561.8	435.1	298.2	245.6	222.1	189.4	155.9	118.7	95.2	91.6
70°	2243.4	1534.6	421.5	288.2	234.8	207.6	175.8	143.2	116.9	101.5	99.7
72.5°	2193.6	1516.5	413.3	286.4	233.0	202.1	166.8	127.8	105.1	97.0	98.8
75°	2205.4	1527.4	417.0	289.2	236.6	204.9	163.2	118.7	92.5	83.4	85.2
77.5°	2179.1	1505.6	422.4	288.2	234.8	200.3	152.3	108.8	84.3	75.2	74.3
80°	2200.8	1458.5	409.7	279.2	221.2	182.2	135.1	97.0	77.0	70.7	69.8
82.5°	2034.1	1269.9	364.4	254.7	200.3	156.8	113.3	85.2	72.5	65.3	65.3
85°	1864.6	1029.7	312.7	223.9	165.0	123.3	90.6	74.3	63.5	58.0	58.0
87.5°	1415.0	737.8	242.0	184.0	137.8	106.1	82.5	71.6	62.5	58.9	58.0
90°	874.7	455.0	180.4	146.8	116.9	94.3	78.0	68.9	61.6	58.9	58.9
92.5°	489.5	291.0	139.6	120.6	100.6	84.3	71.6	62.5	56.2	53.5	53.5
95°	331.8	217.5	119.7	107.9	89.7	74.3	62.5	54.4	48.9	45.3	45.3
97.5°	240.2	171.3	106.1	97.0	80.7	65.3	55.3	47.1	42.6	40.8	40.8
100°	184.0	138.7	96.1	87.0	71.6	57.1	48.0	40.8	36.3	34.4	34.4
102.5°	147.8	116.9	87.0	78.9	63.5	50.8	40.8	33.5	29.9	29.0	28.1
105°	133.2	108.8	81.6	73.4	58.0	46.2	36.3	29.9	26.3	24.5	24.5
107.5°	129.6	108.8	80.7	71.6	55.3	43.5	32.6	27.2	23.6	21.8	21.8
110°	137.8	115.1	81.6	69.8	51.7	39.9	29.9	24.5	20.8	19.9	19.9



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CATALOG NUMBER: ARC-CA6-90-727-U-33-X-5-X-GHSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	142.3	116.0	78.0	65.3	48.0	36.3	28.1	22.7	19.9	18.1	18.1
115°	130.5	104.2	71.6	58.0	42.6	32.6	26.3	21.8	18.1	16.3	16.3
117.5°	126.0	97.9	69.8	50.8	39.0	29.9	24.5	19.9	17.2	15.4	15.4
120°	126.0	95.2	61.6	44.4	35.4	27.2	22.7	18.1	15.4	14.5	14.5
122.5°	121.5	87.9	54.4	39.0	30.8	23.6	19.9	16.3	14.5	12.7	12.7
125°	110.6	81.6	44.4	35.4	28.1	21.8	18.1	15.4	12.7	11.8	11.8
127.5°	104.2	80.7	41.7	32.6	25.4	19.9	16.3	13.6	10.9	10.0	10.0
130°	103.3	80.7	39.0	29.0	22.7	17.2	14.5	11.8	10.0	9.1	9.1
132.5°	92.5	73.4	37.2	27.2	20.8	16.3	13.6	10.9	9.1	8.2	8.2
135°	83.4	68.0	36.3	25.4	19.0	14.5	11.8	10.0	7.3	7.3	7.3
137.5°	77.0	62.5	36.3	23.6	17.2	12.7	10.9	9.1	6.3	6.3	6.3
140°	72.5	58.0	35.4	22.7	15.4	11.8	10.0	7.3	5.4	5.4	5.4
142.5°	68.0	54.4	32.6	21.8	14.5	10.0	9.1	7.3	5.4	4.5	4.5
145°	62.5	49.9	29.0	19.9	13.6	9.1	8.2	6.3	4.5	3.6	3.6
147.5°	57.1	44.4	25.4	17.2	12.7	8.2	7.3	5.4	3.6	3.6	3.6
150°	48.9	38.1	22.7	15.4	10.9	7.3	6.3	4.5	3.6	2.7	2.7
152.5°	39.9	32.6	19.9	13.6	10.0	6.3	5.4	3.6	2.7	1.8	1.8
155°	35.4	29.0	18.1	11.8	8.2	5.4	4.5	2.7	2.7	1.8	1.8
157.5°	30.8	25.4	16.3	10.0	6.3	3.6	3.6	2.7	1.8	1.8	0.9
160°	25.4	21.8	13.6	8.2	5.4	2.7	2.7	1.8	1.8	0.9	0.9
162.5°	19.9	16.3	10.0	6.3	3.6	1.8	1.8	1.8	1.8	0.9	0.0
165°	13.6	11.8	7.3	4.5	2.7	0.9	0.9	1.8	0.9	0.9	0.0
167.5°	9.1	7.3	4.5	2.7	1.8	0.0	0.9	0.9	0.9	0.9	0.0
170°	3.6	3.6	2.7	1.8	0.0	0.0	0.0	0.9	0.9	0.9	0.0
172.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.0
175°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	0.9	0.0
177.5°	0.9	0.9	0.9	0.9	0.0	0.0	0.9	0.9	0.9	0.9	0.0
180°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9

(END OF REPORT)