

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: P588624

Luminaire Tested: **ARC-CA6-90-722-U-33-X-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588624
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-CA6-90-722-U-33-X-5-X-GHSS
Description: GENERATIONS SERIES AVENUE WITH NO CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD
Light Source: (3) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5311 lumens
Efficiency: N/A
Efficacy: 112.5 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

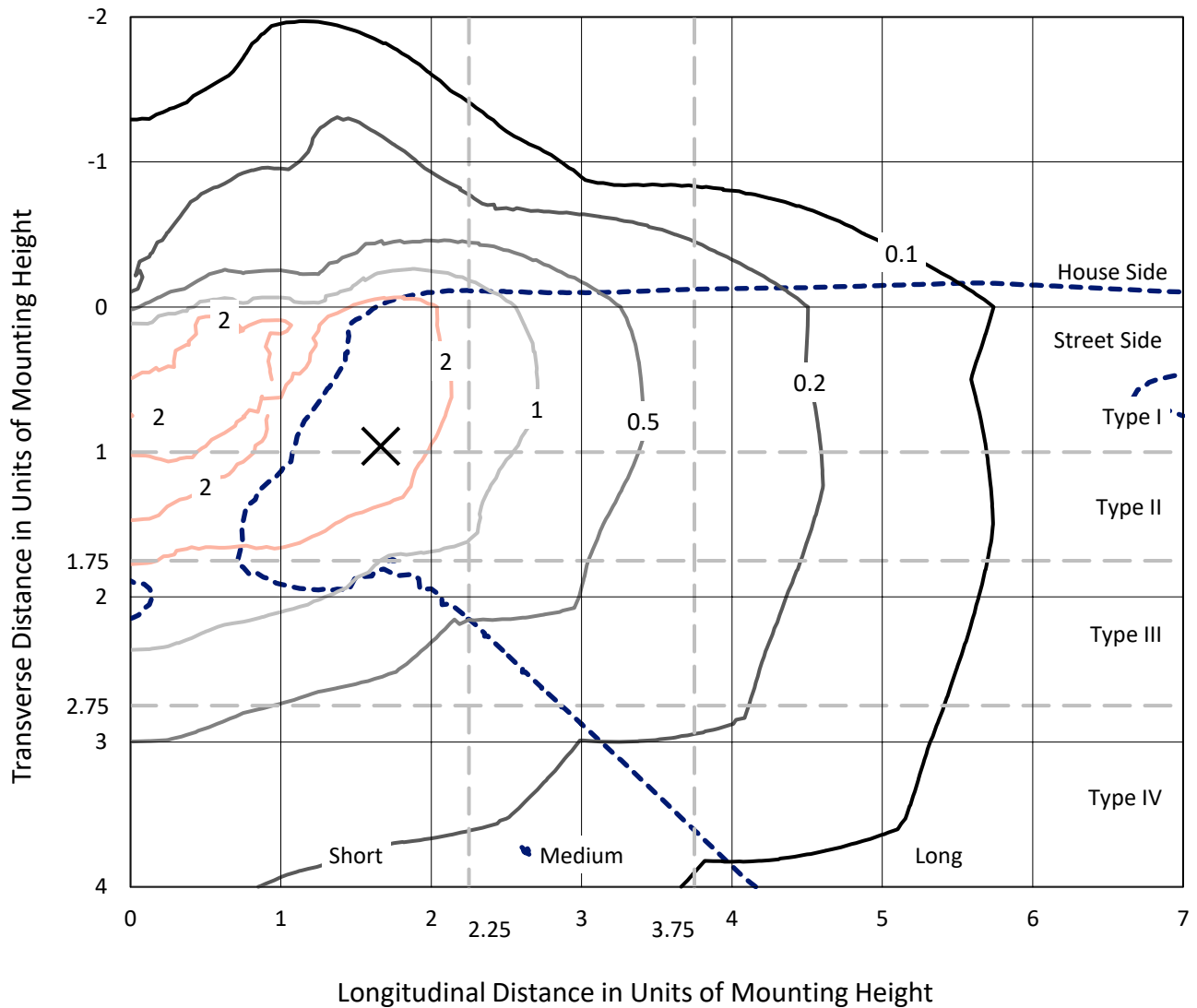
Input Watts (W): 47.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

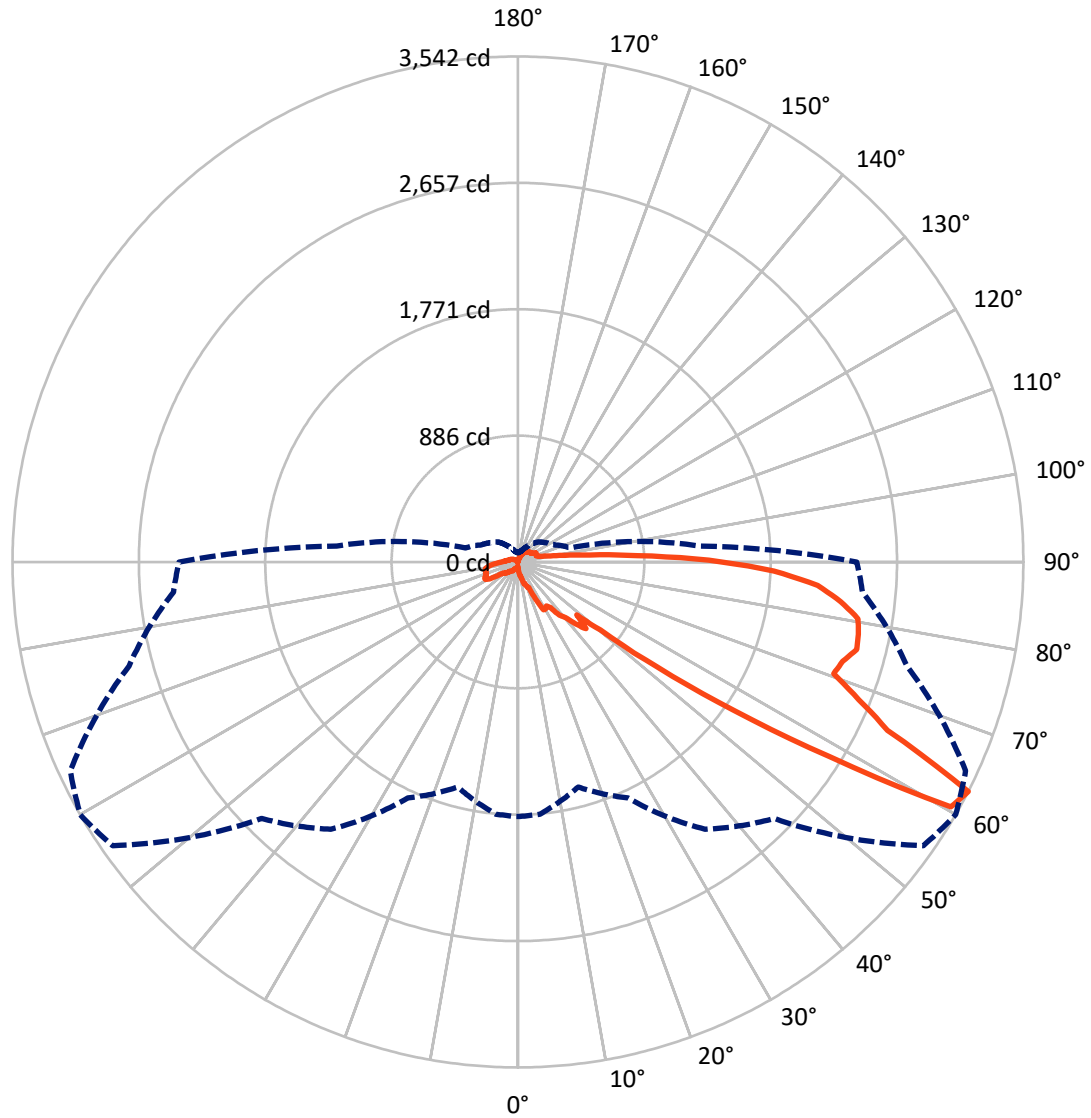
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 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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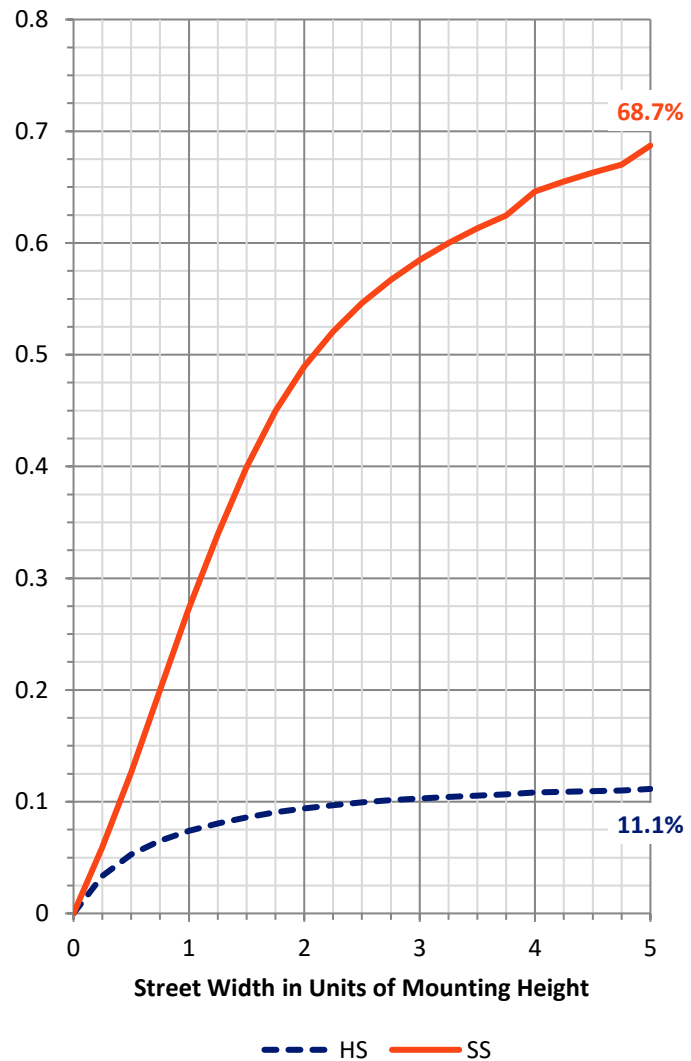
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	623.0	124.2	747.3
	% Fixture	11.7	2.3	14.1
Street Side	Lumens	4056.8	506.9	4563.8
	% Fixture	76.4	9.5	85.9
Total	Lumens	4679.9	631.1	5311.0
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.1
10°-20°	25.5	0.5
20°-30°	75.9	1.4
30°-40°	152.6	2.9
40°-50°	268.6	5.1
50°-60°	741.5	14.0
60°-70°	1282.0	24.1
70°-80°	1190.0	22.4
80°-90°	938.3	17.7
90°-100°	297.7	5.6
100°-110°	106.2	2.0
110°-120°	87.3	1.6
120°-130°	57.4	1.1
130°-140°	40.9	0.8
140°-150°	26.4	0.5
150°-160°	12.1	0.2
160°-170°	3.0	0.1
170°-180°	0.1	0.0
0°-90°	4679.9	88.1
0°-180°	5311.0	100.0



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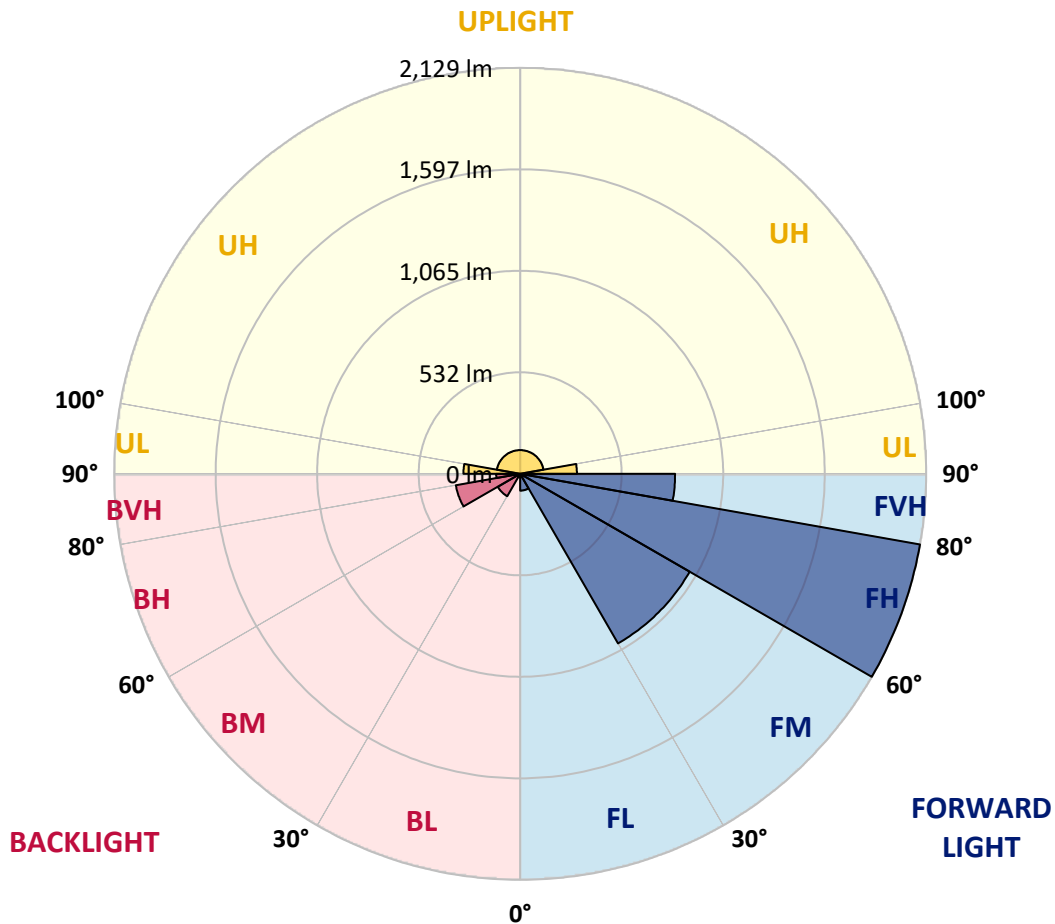
CATALOG NUMBER: ARC-CA6-90-722-U-33-X-5-X-GHSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	88.1	1.7			
FM (30°-60°)	1026.9	19.3			
FH (60°-80°)	2129.2	40.1			G2/5000
FVH (80°-90°)	812.5	15.3			G5
BL (0°-30°)	18.9	0.4	B0/110		
BM (30°-60°)	135.7	2.6	B0/220		
BH (60°-80°)	342.7	6.5	B1/500		G1/500
BVH (80°-90°)	125.8	2.4			G2/225
UL (90°-100°)	297.7	5.6		U3/500	
UH (100°-180°)	124.2	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°	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
2.5°	62.9	61.3	62.1	62.1	62.9	59.7	56.4	53.9	51.5	48.2	44.1
5°	89.9	88.3	85.8	85.0	83.4	80.1	75.2	73.6	68.7	62.1	53.9
7.5°	109.5	108.7	107.9	105.4	103.8	98.9	93.2	90.7	85.0	76.0	66.2
10°	124.2	124.2	125.1	121.0	113.6	109.5	104.6	103.0	98.9	86.6	74.4
12.5°	136.5	134.9	128.3	125.1	121.8	122.6	123.4	122.6	121.0	100.5	83.4
15°	147.9	146.3	141.4	137.3	134.9	143.0	161.0	159.4	158.6	126.7	97.3
17.5°	156.1	156.1	161.0	164.3	168.4	156.1	152.8	157.7	163.5	139.8	110.3
20°	179.8	176.5	172.5	169.2	189.6	180.6	183.9	189.6	193.7	156.1	121.0
22.5°	169.2	170.0	188.0	194.5	184.7	179.8	191.3	193.7	194.5	179.0	125.9
25°	231.3	220.7	214.1	234.6	232.9	268.9	279.5	286.9	286.9	242.7	175.7
27.5°	319.6	319.6	347.4	401.3	392.3	393.1	380.9	380.1	395.6	410.3	267.3
30°	346.6	355.5	433.2	460.2	489.6	452.8	412.8	381.7	388.2	467.5	311.4
32.5°	354.7	362.9	456.9	427.5	438.1	423.4	429.1	366.2	350.6	430.7	303.2
35°	309.8	321.2	398.0	360.4	340.0	384.1	437.3	392.3	385.0	353.9	274.6
37.5°	413.6	419.3	446.3	440.5	447.1	449.5	513.3	472.4	480.6	427.5	347.4
40°	474.9	468.3	573.8	599.1	589.3	580.3	574.6	511.7	521.5	495.3	470.0
42.5°	583.6	576.2	650.6	666.1	668.6	644.9	671.9	592.6	568.0	514.1	585.2
45°	590.9	595.0	665.3	625.3	666.9	710.3	759.3	667.8	623.6	532.9	680.0
47.5°	523.1	541.1	695.6	660.4	619.5	581.1	599.9	553.3	517.4	421.7	653.9
50°	533.7	541.1	640.0	598.3	497.8	616.3	781.4	747.9	708.6	523.1	630.2
52.5°	755.2	751.9	795.3	797.7	823.1	925.2	1251.3	1224.4	1230.9	1018.4	938.3
55°	1035.6	1033.9	1143.5	1318.4	1463.0	1512.9	1938.7	1832.5	1784.2	1578.3	1656.7
57.5°	1338.8	1352.7	1400.9	1646.1	1893.8	1958.3	2625.3	2570.5	2464.3	2058.9	2268.1
60°	1658.4	1650.2	1579.1	1740.1	2136.5	2458.5	3459.0	3485.1	3273.4	2591.8	2475.7
62.5°	1784.2	1773.6	1632.2	1824.3	2286.1	2541.9	3467.1	3542.3	3461.4	2822.3	2423.4
65°	1763.0	1738.5	1550.5	1701.7	1929.7	2162.7	3095.3	2846.0	2978.4	2886.0	2291.0
67.5°	1679.6	1673.9	1499.0	1582.4	1731.1	1761.4	2827.2	2575.4	2622.8	2943.2	2330.2
70°	1575.0	1573.4	1441.0	1503.9	1715.6	1684.5	2617.1	2346.6	2318.8	2634.3	2340.0
72.5°	1578.3	1576.6	1430.3	1451.6	1678.8	1628.1	2595.0	2379.3	2328.6	2482.3	2227.2
75°	1605.2	1606.9	1451.6	1475.3	1730.3	1639.6	2647.4	2452.0	2400.5	2467.5	2137.3
77.5°	1579.1	1592.2	1439.3	1492.5	1763.0	1637.9	2622.8	2438.1	2365.4	2346.6	1965.7
80°	1491.6	1509.6	1372.3	1433.6	1733.6	1660.0	2602.4	2416.9	2324.5	2221.5	1842.3
82.5°	1308.6	1327.4	1221.9	1278.3	1612.6	1569.3	2459.4	2279.6	2197.0	2017.2	1681.3
85°	1124.7	1168.0	1116.5	1124.7	1423.8	1436.9	2266.5	2107.9	2050.7	1893.8	1626.5
87.5°	928.5	966.1	917.9	859.8	1066.6	1141.8	1874.2	1795.7	1780.2	1671.5	1411.5
90°	687.4	721.7	693.1	617.1	722.5	769.9	1381.3	1338.0	1371.5	1247.3	970.2
92.5°	498.6	504.3	470.8	407.9	481.4	504.3	905.6	839.4	878.6	764.2	568.9
95°	333.5	347.4	321.2	294.2	349.0	351.5	558.2	509.2	487.9	438.9	340.0
97.5°	244.4	245.2	235.4	210.9	245.2	248.5	371.1	334.3	315.5	295.1	235.4
100°	193.7	193.7	179.0	163.5	170.8	177.4	258.3	232.9	223.1	214.1	177.4
102.5°	169.2	168.4	156.1	140.6	139.8	143.0	195.3	178.2	170.8	165.1	139.8
105°	160.2	159.4	147.1	130.8	126.7	124.2	162.6	151.2	146.3	141.4	125.9
107.5°	158.6	156.9	144.7	130.0	123.4	116.9	146.3	136.5	137.3	132.4	121.0
110°	160.2	160.2	149.6	140.6	130.0	121.0	147.1	136.5	139.8	138.1	125.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	156.1	160.2	156.1	150.4	138.9	131.6	153.7	141.4	145.5	145.5	130.0
115°	147.1	151.2	151.2	145.5	134.9	132.4	152.0	141.4	143.0	140.6	121.0
117.5°	134.9	137.3	135.7	129.1	120.1	118.5	141.4	136.5	136.5	129.1	112.8
120°	125.9	121.0	114.4	109.5	104.6	108.7	127.5	122.6	118.5	115.2	103.0
122.5°	112.8	107.1	99.7	97.3	94.0	99.7	116.1	112.0	107.9	106.3	97.3
125°	93.2	93.2	89.9	88.3	87.5	95.6	114.4	110.3	104.6	101.3	90.7
127.5°	89.9	89.9	87.5	85.8	86.6	96.4	112.0	107.9	101.3	97.3	87.5
130°	90.7	89.1	85.8	83.4	84.2	95.6	111.2	106.3	99.7	96.4	87.5
132.5°	85.8	84.2	81.7	80.1	79.3	90.7	105.4	103.0	98.1	90.7	80.9
135°	83.4	81.7	80.1	79.3	79.3	88.3	100.5	98.1	93.2	85.0	74.4
137.5°	82.6	80.9	77.6	76.8	76.0	84.2	94.0	92.4	87.5	80.1	71.1
140°	78.5	76.0	73.6	72.7	72.7	79.3	89.1	87.5	82.6	76.8	68.7
142.5°	72.7	71.1	68.7	68.7	69.5	76.0	86.6	85.8	80.1	73.6	66.2
145°	69.5	67.8	66.2	67.0	67.8	73.6	81.7	80.9	76.8	71.1	63.8
147.5°	63.8	62.9	61.3	60.5	62.1	67.0	76.0	76.0	73.6	66.2	58.8
150°	55.6	54.8	53.1	52.3	53.9	58.8	66.2	66.2	63.8	56.4	49.9
152.5°	46.6	45.8	45.8	46.6	48.2	50.7	57.2	58.0	55.6	48.2	42.5
155°	40.9	40.0	40.0	40.9	43.3	45.8	49.9	49.9	47.4	42.5	36.8
157.5°	35.1	34.3	34.3	35.1	37.6	39.2	43.3	42.5	40.9	36.8	31.9
160°	27.0	26.2	26.2	27.0	29.4	31.1	34.3	34.3	33.5	31.1	27.0
162.5°	20.4	19.6	19.6	20.4	22.1	22.9	25.3	26.2	26.2	24.5	21.3
165°	15.5	14.7	14.7	14.7	16.3	17.2	18.0	18.0	18.0	17.2	14.7
167.5°	9.8	9.0	9.0	9.8	10.6	10.6	11.4	11.4	10.6	10.6	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°	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
2.5°	42.5	41.7	38.4	33.5	28.6	23.7	22.9	23.7	24.5	25.3	26.2
5°	50.7	47.4	40.9	33.5	27.0	20.4	17.2	15.5	14.7	15.5	16.3
7.5°	61.3	57.2	49.0	40.0	31.9	25.3	21.3	17.2	14.7	14.7	15.5
10°	68.7	63.8	53.9	44.1	36.0	28.6	23.7	19.6	17.2	15.5	15.5
12.5°	76.8	70.3	57.2	46.6	37.6	31.1	26.2	22.1	19.6	18.0	18.0
15°	85.8	78.5	62.9	49.0	40.0	32.7	28.6	24.5	21.3	19.6	19.6
17.5°	100.5	88.3	66.2	51.5	41.7	34.3	29.4	25.3	22.1	20.4	20.4
20°	107.1	93.2	67.0	53.9	44.1	36.0	30.2	25.3	22.9	21.3	21.3
22.5°	107.1	92.4	68.7	55.6	46.6	37.6	31.1	26.2	22.9	21.3	21.3
25°	134.9	101.3	70.3	59.7	49.0	39.2	32.7	27.0	23.7	22.1	22.1
27.5°	188.8	132.4	80.9	63.8	52.3	41.7	34.3	28.6	24.5	22.9	22.9
30°	207.6	147.9	92.4	74.4	57.2	44.1	36.0	30.2	26.2	23.7	23.7
32.5°	211.7	145.5	98.9	81.7	65.4	48.2	37.6	31.9	27.0	24.5	24.5
35°	191.3	134.9	98.9	85.0	70.3	53.9	41.7	33.5	27.8	25.3	24.5
37.5°	223.1	145.5	101.3	85.8	72.7	58.0	46.6	36.0	29.4	26.2	26.2
40°	288.5	172.5	113.6	90.7	73.6	60.5	51.5	40.0	31.9	27.8	27.8
42.5°	337.6	194.5	126.7	103.0	80.1	63.8	53.1	43.3	35.1	30.2	29.4
45°	379.2	215.8	138.1	114.4	91.5	71.1	56.4	46.6	38.4	33.5	32.7
47.5°	386.6	226.4	147.1	125.9	100.5	78.5	61.3	49.9	42.5	36.8	36.0
50°	373.5	227.2	150.4	133.2	110.3	86.6	67.0	53.9	45.8	40.0	40.0
52.5°	533.7	283.6	165.1	137.3	113.6	93.2	74.4	58.8	49.0	44.1	44.1
55°	962.8	458.5	213.3	162.6	121.8	98.1	80.9	66.2	53.9	48.2	48.2
57.5°	1556.2	716.0	282.0	217.4	156.9	113.6	88.3	73.6	60.5	52.3	52.3
60°	2062.1	1010.2	343.3	264.8	206.0	156.1	107.1	83.4	67.8	58.0	57.2
62.5°	2374.4	1275.0	379.2	282.8	235.4	197.8	143.9	104.6	76.8	66.2	64.6
65°	2304.9	1407.5	394.8	281.2	233.8	210.9	171.6	130.0	92.4	76.0	73.6
67.5°	2116.9	1408.3	392.3	268.9	221.5	200.2	170.8	140.6	107.1	85.8	82.6
70°	2022.9	1383.8	380.1	259.9	211.7	187.2	158.6	129.1	105.4	91.5	89.9
72.5°	1978.0	1367.4	372.7	258.3	210.1	182.3	150.4	115.2	94.8	87.5	89.1
75°	1988.6	1377.2	376.0	260.7	213.3	184.7	147.1	107.1	83.4	75.2	76.8
77.5°	1964.9	1357.6	380.9	259.9	211.7	180.6	137.3	98.1	76.0	67.8	67.0
80°	1984.5	1315.1	369.4	251.7	199.4	164.3	121.8	87.5	69.5	63.8	62.9
82.5°	1834.1	1145.1	328.6	229.7	180.6	141.4	102.2	76.8	65.4	58.8	58.8
85°	1681.3	928.5	282.0	201.9	148.8	111.2	81.7	67.0	57.2	52.3	52.3
87.5°	1275.9	665.3	218.2	165.9	124.2	95.6	74.4	64.6	56.4	53.1	52.3
90°	788.7	410.3	162.6	132.4	105.4	85.0	70.3	62.1	55.6	53.1	53.1
92.5°	441.4	262.4	125.9	108.7	90.7	76.0	64.6	56.4	50.7	48.2	48.2
95°	299.1	196.2	107.9	97.3	80.9	67.0	56.4	49.0	44.1	40.9	40.9
97.5°	216.6	154.5	95.6	87.5	72.7	58.8	49.9	42.5	38.4	36.8	36.8
100°	165.9	125.1	86.6	78.5	64.6	51.5	43.3	36.8	32.7	31.1	31.1
102.5°	133.2	105.4	78.5	71.1	57.2	45.8	36.8	30.2	27.0	26.2	25.3
105°	120.1	98.1	73.6	66.2	52.3	41.7	32.7	27.0	23.7	22.1	22.1
107.5°	116.9	98.1	72.7	64.6	49.9	39.2	29.4	24.5	21.3	19.6	19.6
110°	124.2	103.8	73.6	62.9	46.6	36.0	27.0	22.1	18.8	18.0	18.0



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CATALOG NUMBER: ARC-CA6-90-722-U-33-X-5-X-GHSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	128.3	104.6	70.3	58.8	43.3	32.7	25.3	20.4	18.0	16.3	16.3
115°	117.7	94.0	64.6	52.3	38.4	29.4	23.7	19.6	16.3	14.7	14.7
117.5°	113.6	88.3	62.9	45.8	35.1	27.0	22.1	18.0	15.5	13.9	13.9
120°	113.6	85.8	55.6	40.0	31.9	24.5	20.4	16.3	13.9	13.1	13.1
122.5°	109.5	79.3	49.0	35.1	27.8	21.3	18.0	14.7	13.1	11.4	11.4
125°	99.7	73.6	40.0	31.9	25.3	19.6	16.3	13.9	11.4	10.6	10.6
127.5°	94.0	72.7	37.6	29.4	22.9	18.0	14.7	12.3	9.8	9.0	9.0
130°	93.2	72.7	35.1	26.2	20.4	15.5	13.1	10.6	9.0	8.2	8.2
132.5°	83.4	66.2	33.5	24.5	18.8	14.7	12.3	9.8	8.2	7.4	7.4
135°	75.2	61.3	32.7	22.9	17.2	13.1	10.6	9.0	6.5	6.5	6.5
137.5°	69.5	56.4	32.7	21.3	15.5	11.4	9.8	8.2	5.7	5.7	5.7
140°	65.4	52.3	31.9	20.4	13.9	10.6	9.0	6.5	4.9	4.9	4.9
142.5°	61.3	49.0	29.4	19.6	13.1	9.0	8.2	6.5	4.9	4.1	4.1
145°	56.4	45.0	26.2	18.0	12.3	8.2	7.4	5.7	4.1	3.3	3.3
147.5°	51.5	40.0	22.9	15.5	11.4	7.4	6.5	4.9	3.3	3.3	3.3
150°	44.1	34.3	20.4	13.9	9.8	6.5	5.7	4.1	3.3	2.5	2.5
152.5°	36.0	29.4	18.0	12.3	9.0	5.7	4.9	3.3	2.5	1.6	1.6
155°	31.9	26.2	16.3	10.6	7.4	4.9	4.1	2.5	2.5	1.6	1.6
157.5°	27.8	22.9	14.7	9.0	5.7	3.3	3.3	2.5	1.6	1.6	0.8
160°	22.9	19.6	12.3	7.4	4.9	2.5	2.5	1.6	1.6	0.8	0.8
162.5°	18.0	14.7	9.0	5.7	3.3	1.6	1.6	1.6	1.6	0.8	0.0
165°	12.3	10.6	6.5	4.1	2.5	0.8	0.8	1.6	0.8	0.8	0.0
167.5°	8.2	6.5	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)