

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: P588632

Luminaire Tested: **ARC-CA6-90-750-U-33-X-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588632
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-CA6-90-750-U-33-X-5-X-GHSS
Description: GENERATIONS SERIES AVENUE WITH NO CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD
Light Source: (3) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6416 lumens
Efficiency: N/A
Efficacy: 135.9 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

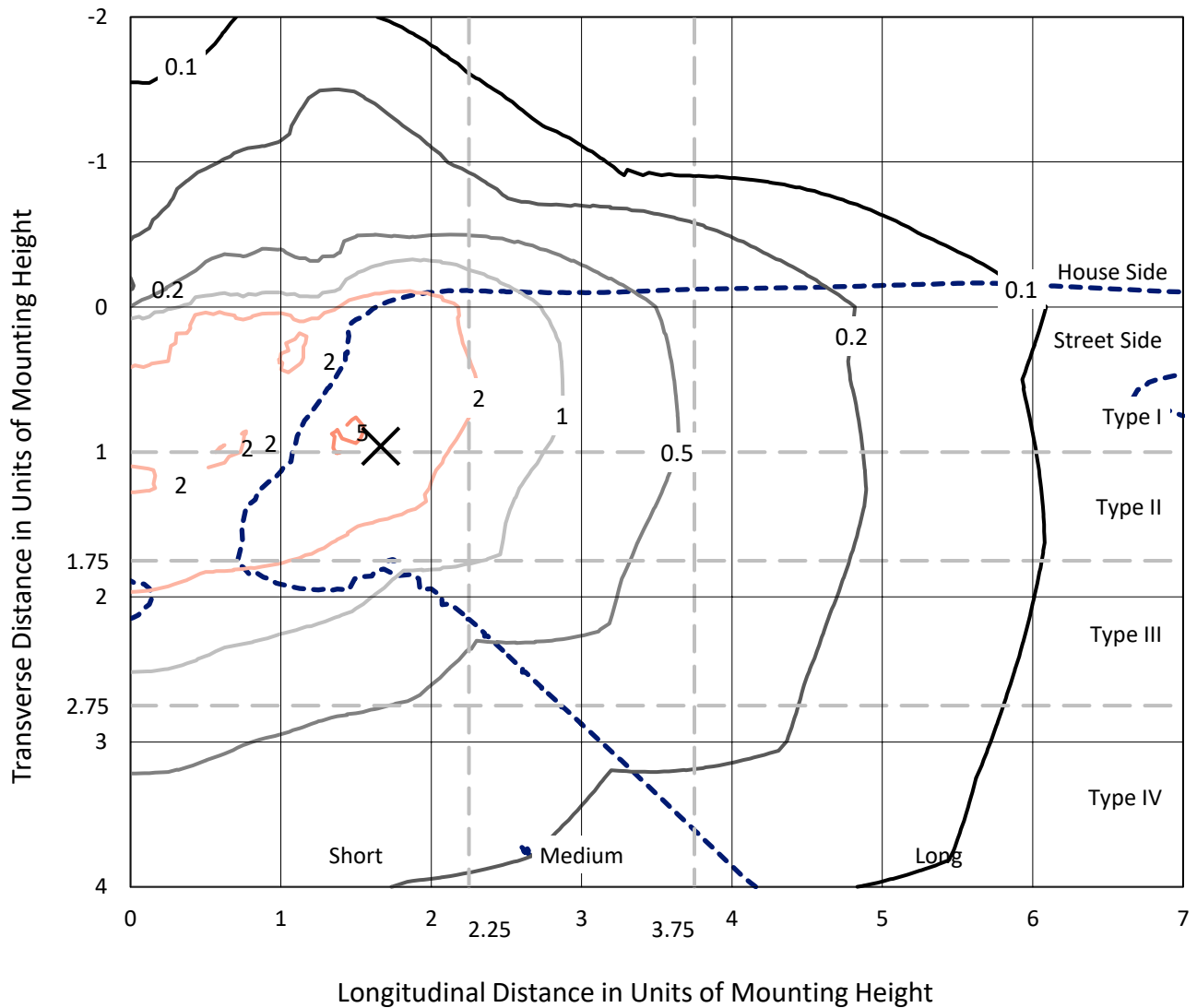
Input Watts (W): 47.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

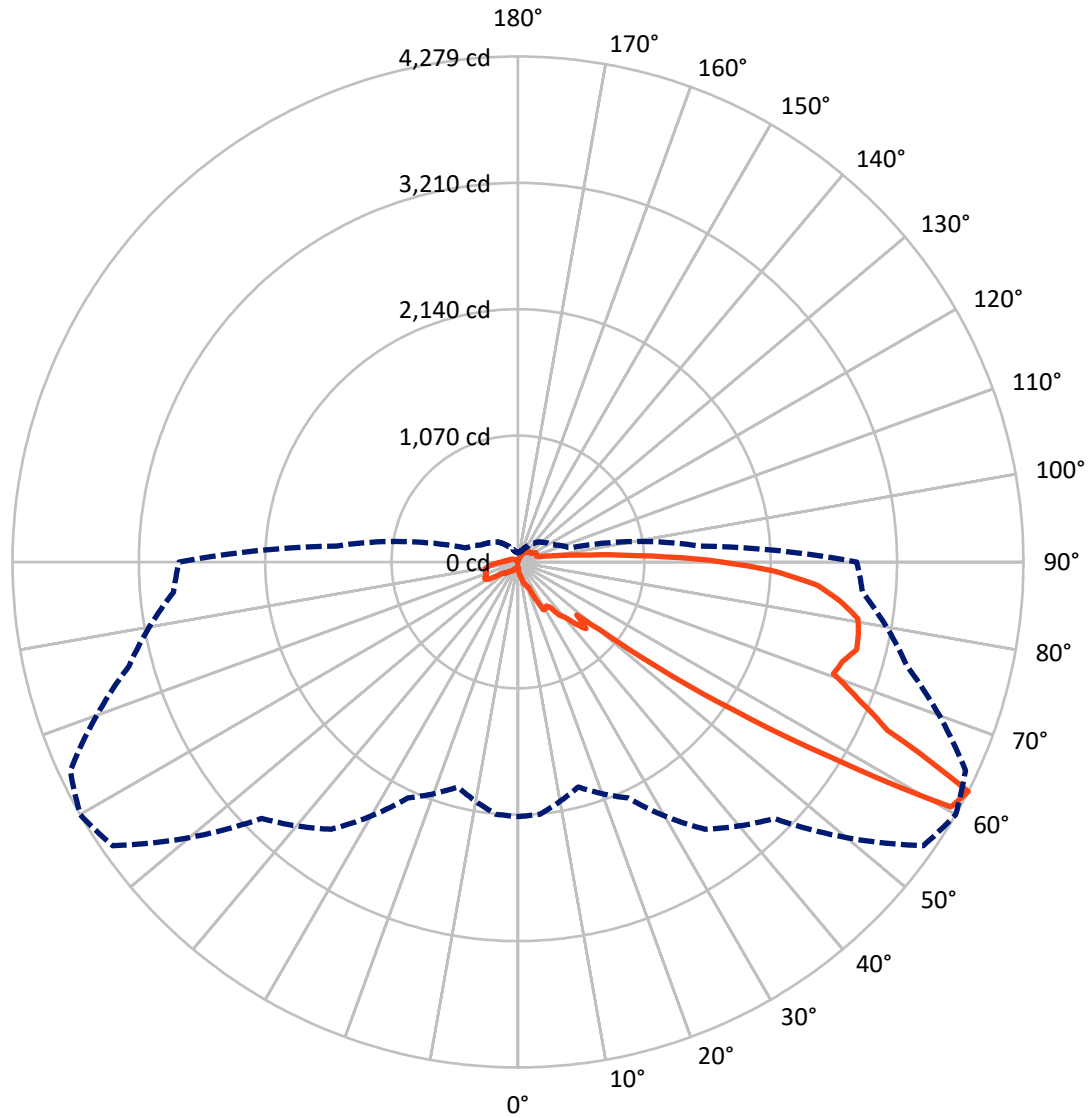
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 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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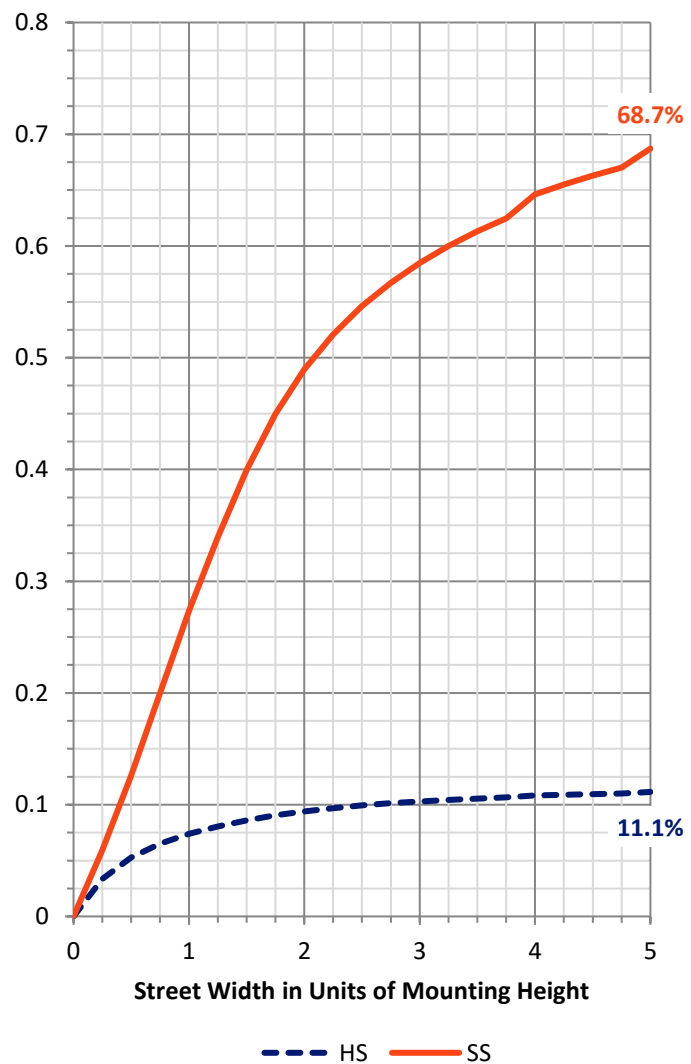
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	752.7	150.1	902.7
	% Fixture	11.7	2.3	14.1
Street Side	Lumens	4900.9	612.4	5513.3
	% Fixture	76.4	9.5	85.9
Total	Lumens	5653.5	762.4	6416.0
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	0.1
10°-20°	30.8	0.5
20°-30°	91.7	1.4
30°-40°	184.3	2.9
40°-50°	324.4	5.1
50°-60°	895.7	14.0
60°-70°	1548.7	24.1
70°-80°	1437.5	22.4
80°-90°	1133.5	17.7
90°-100°	359.7	5.6
100°-110°	128.3	2.0
110°-120°	105.4	1.6
120°-130°	69.3	1.1
130°-140°	49.4	0.8
140°-150°	31.9	0.5
150°-160°	14.7	0.2
160°-170°	3.6	0.1
170°-180°	0.1	0.0
0°-90°	5653.5	88.1
0°-180°	6416.0	100.0

Coefficient of Utilization



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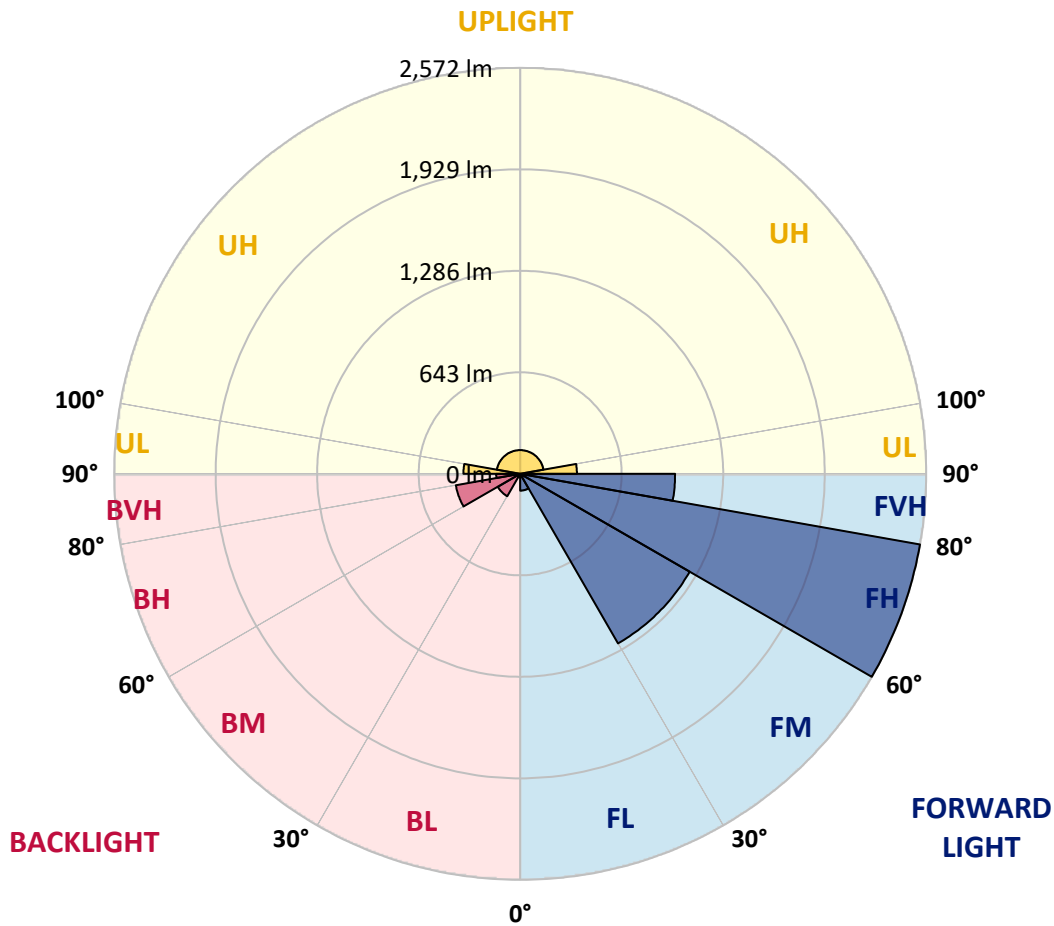
CATALOG NUMBER: ARC-CA6-90-750-U-33-X-5-X-GHSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	106.5	1.7			
FM (30°-60°)	1240.6	19.3			
FH (60°-80°)	2572.3	40.1			G2/5000
FVH (80°-90°)	981.5	15.3			G5
BL (0°-30°)	22.8	0.4	B0/110		
BM (30°-60°)	163.9	2.6	B0/220		
BH (60°-80°)	414.0	6.5	B1/500		G1/500
BVH (80°-90°)	152.0	2.4			G2/225
UL (90°-100°)	359.7	5.6		U3/500	
UH (100°-180°)	150.1	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°	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
2.5°	76.0	74.1	75.0	75.0	76.0	72.1	68.1	65.2	62.2	58.3	53.3
5°	108.6	106.6	103.7	102.7	100.7	96.8	90.8	88.9	82.9	75.0	65.2
7.5°	132.3	131.3	130.3	127.4	125.4	119.5	112.6	109.6	102.7	91.8	80.0
10°	150.1	150.1	151.1	146.1	137.2	132.3	126.4	124.4	119.5	104.7	89.9
12.5°	164.9	162.9	155.0	151.1	147.1	148.1	149.1	148.1	146.1	121.4	100.7
15°	178.7	176.7	170.8	165.9	162.9	172.8	194.5	192.5	191.6	153.0	117.5
17.5°	188.6	188.6	194.5	198.5	203.4	188.6	184.6	190.6	197.5	168.8	133.3
20°	217.2	213.3	208.3	204.4	229.1	218.2	222.2	229.1	234.0	188.6	146.1
22.5°	204.4	205.4	227.1	235.0	223.2	217.2	231.0	234.0	235.0	216.2	152.1
25°	279.4	266.6	258.7	283.4	281.4	324.9	337.7	346.6	346.6	293.3	212.3
27.5°	386.1	386.1	419.6	484.8	473.9	474.9	460.1	459.1	477.9	495.7	322.9
30°	418.7	429.5	523.3	555.9	591.4	547.0	498.6	461.1	469.0	564.8	376.2
32.5°	428.5	438.4	552.0	516.4	529.2	511.5	518.4	442.4	423.6	520.4	366.3
35°	374.2	388.0	480.9	435.4	410.8	464.1	528.3	473.9	465.1	427.5	331.8
37.5°	499.6	506.5	539.1	532.2	540.1	543.1	620.1	570.7	580.6	516.4	419.6
40°	573.7	565.8	693.1	723.8	711.9	701.0	694.1	618.1	630.0	598.4	567.7
42.5°	705.0	696.1	786.0	804.7	807.7	779.1	811.6	715.9	686.2	621.1	707.0
45°	713.9	718.8	803.7	755.4	805.7	858.0	917.3	806.7	753.4	643.8	821.5
47.5°	631.9	653.7	840.3	797.8	748.4	702.0	724.7	668.5	625.0	509.5	789.9
50°	644.8	653.7	773.1	722.8	601.3	744.5	943.9	903.5	856.1	631.9	761.3
52.5°	912.3	908.4	960.7	963.7	994.3	1117.7	1511.7	1479.1	1487.0	1230.3	1133.5
55°	1251.0	1249.0	1381.4	1592.7	1767.4	1827.7	2342.1	2213.7	2155.5	1906.7	2001.4
57.5°	1617.3	1634.1	1692.4	1988.6	2287.8	2365.8	3171.5	3105.3	2977.0	2487.2	2740.0
60°	2003.4	1993.5	1907.6	2102.2	2581.0	2970.1	4178.6	4210.2	3954.5	3131.0	2990.8
62.5°	2155.5	2142.6	1971.8	2203.9	2761.7	3070.8	4188.5	4279.4	4181.6	3409.5	2927.6
65°	2129.8	2100.2	1873.1	2055.7	2331.2	2612.6	3739.2	3438.1	3598.1	3486.5	2767.7
67.5°	2029.1	2022.2	1810.9	1911.6	2091.3	2127.8	3415.4	3111.3	3168.5	3555.6	2815.1
70°	1902.7	1900.7	1740.8	1816.8	2072.5	2035.0	3161.6	2834.8	2801.2	3182.4	2826.9
72.5°	1906.7	1904.7	1727.9	1753.6	2028.1	1966.9	3135.0	2874.3	2813.1	2998.7	2690.6
75°	1939.2	1941.2	1753.6	1782.2	2090.3	1980.7	3198.2	2962.2	2900.0	2980.9	2582.0
77.5°	1907.6	1923.4	1738.8	1803.0	2129.8	1978.7	3168.5	2945.4	2857.5	2834.8	2374.7
80°	1802.0	1823.7	1657.8	1731.9	2094.3	2005.4	3143.9	2919.7	2808.1	2683.7	2225.6
82.5°	1580.8	1603.5	1476.1	1544.3	1948.1	1895.8	2971.1	2753.8	2654.1	2436.9	2031.1
85°	1358.6	1411.0	1348.8	1358.6	1720.0	1735.8	2738.0	2546.5	2477.4	2287.8	1964.9
87.5°	1121.7	1167.1	1108.8	1038.7	1288.5	1379.4	2264.1	2169.3	2150.5	2019.2	1705.2
90°	830.4	871.9	837.3	745.5	872.9	930.1	1668.7	1616.4	1656.8	1506.8	1172.0
92.5°	602.3	609.2	568.7	492.7	581.6	609.2	1094.0	1014.1	1061.4	923.2	687.2
95°	402.9	419.6	388.0	355.5	421.6	424.6	674.4	615.1	589.5	530.2	410.8
97.5°	295.2	296.2	284.4	254.7	296.2	300.2	448.3	403.8	381.1	356.4	284.4
100°	234.0	234.0	216.2	197.5	206.4	214.3	312.0	281.4	269.6	258.7	214.3
102.5°	204.4	203.4	188.6	169.8	168.8	172.8	236.0	215.3	206.4	199.5	168.8
105°	193.5	192.5	177.7	158.0	153.0	150.1	196.5	182.7	176.7	170.8	152.1
107.5°	191.6	189.6	174.8	157.0	149.1	141.2	176.7	164.9	165.9	160.0	146.1
110°	193.5	193.5	180.7	169.8	157.0	146.1	177.7	164.9	168.8	166.9	152.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	188.6	193.5	188.6	181.7	167.9	159.0	185.6	170.8	175.8	175.8	157.0
115°	177.7	182.7	182.7	175.8	162.9	160.0	183.7	170.8	172.8	169.8	146.1
117.5°	162.9	165.9	163.9	156.0	145.1	143.2	170.8	164.9	164.9	156.0	136.3
120°	152.1	146.1	138.2	132.3	126.4	131.3	154.0	148.1	143.2	139.2	124.4
122.5°	136.3	129.3	120.5	117.5	113.5	120.5	140.2	135.3	130.3	128.4	117.5
125°	112.6	112.6	108.6	106.6	105.7	115.5	138.2	133.3	126.4	122.4	109.6
127.5°	108.6	108.6	105.7	103.7	104.7	116.5	135.3	130.3	122.4	117.5	105.7
130°	109.6	107.6	103.7	100.7	101.7	115.5	134.3	128.4	120.5	116.5	105.7
132.5°	103.7	101.7	98.7	96.8	95.8	109.6	127.4	124.4	118.5	109.6	97.8
135°	100.7	98.7	96.8	95.8	95.8	106.6	121.4	118.5	112.6	102.7	89.9
137.5°	99.7	97.8	93.8	92.8	91.8	101.7	113.5	111.6	105.7	96.8	85.9
140°	94.8	91.8	88.9	87.9	87.9	95.8	107.6	105.7	99.7	92.8	82.9
142.5°	87.9	85.9	82.9	82.9	83.9	91.8	104.7	103.7	96.8	88.9	80.0
145°	83.9	82.0	80.0	81.0	82.0	88.9	98.7	97.8	92.8	85.9	77.0
147.5°	77.0	76.0	74.1	73.1	75.0	81.0	91.8	91.8	88.9	80.0	71.1
150°	67.1	66.2	64.2	63.2	65.2	71.1	80.0	80.0	77.0	68.1	60.2
152.5°	56.3	55.3	55.3	56.3	58.3	61.2	69.1	70.1	67.1	58.3	51.3
155°	49.4	48.4	48.4	49.4	52.3	55.3	60.2	60.2	57.3	51.3	44.4
157.5°	42.5	41.5	41.5	42.5	45.4	47.4	52.3	51.3	49.4	44.4	38.5
160°	32.6	31.6	31.6	32.6	35.5	37.5	41.5	41.5	40.5	37.5	32.6
162.5°	24.7	23.7	23.7	24.7	26.7	27.6	30.6	31.6	31.6	29.6	25.7
165°	18.8	17.8	17.8	17.8	19.7	20.7	21.7	21.7	21.7	20.7	17.8
167.5°	11.8	10.9	10.9	11.8	12.8	12.8	13.8	13.8	12.8	12.8	10.9
170°	5.9	4.9	4.9	5.9	5.9	5.9	4.9	3.9	3.9	3.9	3.9
172.5°	2.0	1.0	3.0	3.0	2.0	0.0	0.0	1.0	1.0	1.0	0.0
175°	2.0	1.0	3.0	3.0	2.0	0.0	0.0	1.0	0.0	1.0	0.0
177.5°	1.0	1.0	3.0	3.0	2.0	0.0	0.0	0.0	0.0	1.0	0.0
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
2.5°	51.3	50.4	46.4	40.5	34.6	28.6	27.6	28.6	29.6	30.6	31.6
5°	61.2	57.3	49.4	40.5	32.6	24.7	20.7	18.8	17.8	18.8	19.7
7.5°	74.1	69.1	59.2	48.4	38.5	30.6	25.7	20.7	17.8	17.8	18.8
10°	82.9	77.0	65.2	53.3	43.4	34.6	28.6	23.7	20.7	18.8	18.8
12.5°	92.8	84.9	69.1	56.3	45.4	37.5	31.6	26.7	23.7	21.7	21.7
15°	103.7	94.8	76.0	59.2	48.4	39.5	34.6	29.6	25.7	23.7	23.7
17.5°	121.4	106.6	80.0	62.2	50.4	41.5	35.5	30.6	26.7	24.7	24.7
20°	129.3	112.6	81.0	65.2	53.3	43.4	36.5	30.6	27.6	25.7	25.7
22.5°	129.3	111.6	82.9	67.1	56.3	45.4	37.5	31.6	27.6	25.7	25.7
25°	162.9	122.4	84.9	72.1	59.2	47.4	39.5	32.6	28.6	26.7	26.7
27.5°	228.1	160.0	97.8	77.0	63.2	50.4	41.5	34.6	29.6	27.6	27.6
30°	250.8	178.7	111.6	89.9	69.1	53.3	43.4	36.5	31.6	28.6	28.6
32.5°	255.7	175.8	119.5	98.7	79.0	58.3	45.4	38.5	32.6	29.6	29.6
35°	231.0	162.9	119.5	102.7	84.9	65.2	50.4	40.5	33.6	30.6	29.6
37.5°	269.6	175.8	122.4	103.7	87.9	70.1	56.3	43.4	35.5	31.6	31.6
40°	348.5	208.3	137.2	109.6	88.9	73.1	62.2	48.4	38.5	33.6	33.6
42.5°	407.8	235.0	153.0	124.4	96.8	77.0	64.2	52.3	42.5	36.5	35.5
45°	458.1	260.7	166.9	138.2	110.6	85.9	68.1	56.3	46.4	40.5	39.5
47.5°	467.0	273.5	177.7	152.1	121.4	94.8	74.1	60.2	51.3	44.4	43.4
50°	451.2	274.5	181.7	160.9	133.3	104.7	81.0	65.2	55.3	48.4	48.4
52.5°	644.8	342.6	199.5	165.9	137.2	112.6	89.9	71.1	59.2	53.3	53.3
55°	1163.1	553.9	257.7	196.5	147.1	118.5	97.8	80.0	65.2	58.3	58.3
57.5°	1880.0	865.0	340.6	262.6	189.6	137.2	106.6	88.9	73.1	63.2	63.2
60°	2491.2	1220.4	414.7	319.9	248.8	188.6	129.3	100.7	82.0	70.1	69.1
62.5°	2868.4	1540.3	458.1	341.6	284.4	238.9	173.8	126.4	92.8	80.0	78.0
65°	2784.4	1700.3	476.9	339.7	282.4	254.7	207.4	157.0	111.6	91.8	88.9
67.5°	2557.3	1701.3	473.9	324.9	267.6	241.9	206.4	169.8	129.3	103.7	99.7
70°	2443.8	1671.7	459.1	314.0	255.7	226.1	191.6	156.0	127.4	110.6	108.6
72.5°	2389.5	1651.9	450.3	312.0	253.8	220.2	181.7	139.2	114.5	105.7	107.6
75°	2402.3	1663.8	454.2	315.0	257.7	223.2	177.7	129.3	100.7	90.8	92.8
77.5°	2373.7	1640.1	460.1	314.0	255.7	218.2	165.9	118.5	91.8	82.0	81.0
80°	2397.4	1588.7	446.3	304.1	240.9	198.5	147.1	105.7	83.9	77.0	76.0
82.5°	2215.7	1383.3	396.9	277.5	218.2	170.8	123.4	92.8	79.0	71.1	71.1
85°	2031.1	1121.7	340.6	243.9	179.7	134.3	98.7	81.0	69.1	63.2	63.2
87.5°	1541.3	803.7	263.6	200.4	150.1	115.5	89.9	78.0	68.1	64.2	63.2
90°	952.8	495.7	196.5	160.0	127.4	102.7	84.9	75.0	67.1	64.2	64.2
92.5°	533.2	317.0	152.1	131.3	109.6	91.8	78.0	68.1	61.2	58.3	58.3
95°	361.4	237.0	130.3	117.5	97.8	81.0	68.1	59.2	53.3	49.4	49.4
97.5°	261.7	186.6	115.5	105.7	87.9	71.1	60.2	51.3	46.4	44.4	44.4
100°	200.4	151.1	104.7	94.8	78.0	62.2	52.3	44.4	39.5	37.5	37.5
102.5°	160.9	127.4	94.8	85.9	69.1	55.3	44.4	36.5	32.6	31.6	30.6
105°	145.1	118.5	88.9	80.0	63.2	50.4	39.5	32.6	28.6	26.7	26.7
107.5°	141.2	118.5	87.9	78.0	60.2	47.4	35.5	29.6	25.7	23.7	23.7
110°	150.1	125.4	88.9	76.0	56.3	43.4	32.6	26.7	22.7	21.7	21.7



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CATALOG NUMBER: ARC-CA6-90-750-U-33-X-5-X-GHSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	155.0	126.4	84.9	71.1	52.3	39.5	30.6	24.7	21.7	19.7	19.7
115°	142.2	113.5	78.0	63.2	46.4	35.5	28.6	23.7	19.7	17.8	17.8
117.5°	137.2	106.6	76.0	55.3	42.5	32.6	26.7	21.7	18.8	16.8	16.8
120°	137.2	103.7	67.1	48.4	38.5	29.6	24.7	19.7	16.8	15.8	15.8
122.5°	132.3	95.8	59.2	42.5	33.6	25.7	21.7	17.8	15.8	13.8	13.8
125°	120.5	88.9	48.4	38.5	30.6	23.7	19.7	16.8	13.8	12.8	12.8
127.5°	113.5	87.9	45.4	35.5	27.6	21.7	17.8	14.8	11.8	10.9	10.9
130°	112.6	87.9	42.5	31.6	24.7	18.8	15.8	12.8	10.9	9.9	9.9
132.5°	100.7	80.0	40.5	29.6	22.7	17.8	14.8	11.8	9.9	8.9	8.9
135°	90.8	74.1	39.5	27.6	20.7	15.8	12.8	10.9	7.9	7.9	7.9
137.5°	83.9	68.1	39.5	25.7	18.8	13.8	11.8	9.9	6.9	6.9	6.9
140°	79.0	63.2	38.5	24.7	16.8	12.8	10.9	7.9	5.9	5.9	5.9
142.5°	74.1	59.2	35.5	23.7	15.8	10.9	9.9	7.9	5.9	4.9	4.9
145°	68.1	54.3	31.6	21.7	14.8	9.9	8.9	6.9	4.9	3.9	3.9
147.5°	62.2	48.4	27.6	18.8	13.8	8.9	7.9	5.9	3.9	3.9	3.9
150°	53.3	41.5	24.7	16.8	11.8	7.9	6.9	4.9	3.9	3.0	3.0
152.5°	43.4	35.5	21.7	14.8	10.9	6.9	5.9	3.9	3.0	2.0	2.0
155°	38.5	31.6	19.7	12.8	8.9	5.9	4.9	3.0	3.0	2.0	2.0
157.5°	33.6	27.6	17.8	10.9	6.9	3.9	3.9	3.0	2.0	2.0	1.0
160°	27.6	23.7	14.8	8.9	5.9	3.0	3.0	2.0	2.0	1.0	1.0
162.5°	21.7	17.8	10.9	6.9	3.9	2.0	2.0	2.0	2.0	1.0	0.0
165°	14.8	12.8	7.9	4.9	3.0	1.0	1.0	2.0	1.0	1.0	0.0
167.5°	9.9	7.9	4.9	3.0	2.0	0.0	1.0	1.0	1.0	1.0	0.0
170°	3.9	3.9	3.0	2.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0
172.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0
175°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0
177.5°	1.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0	0.0
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

(END OF REPORT)