

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: P588564

Luminaire Tested: **ARC-CA6-100-722-U-33-X-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588564
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-CA6-100-722-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: 5799 lumens
Efficiency: N/A
Efficacy: 111.1 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

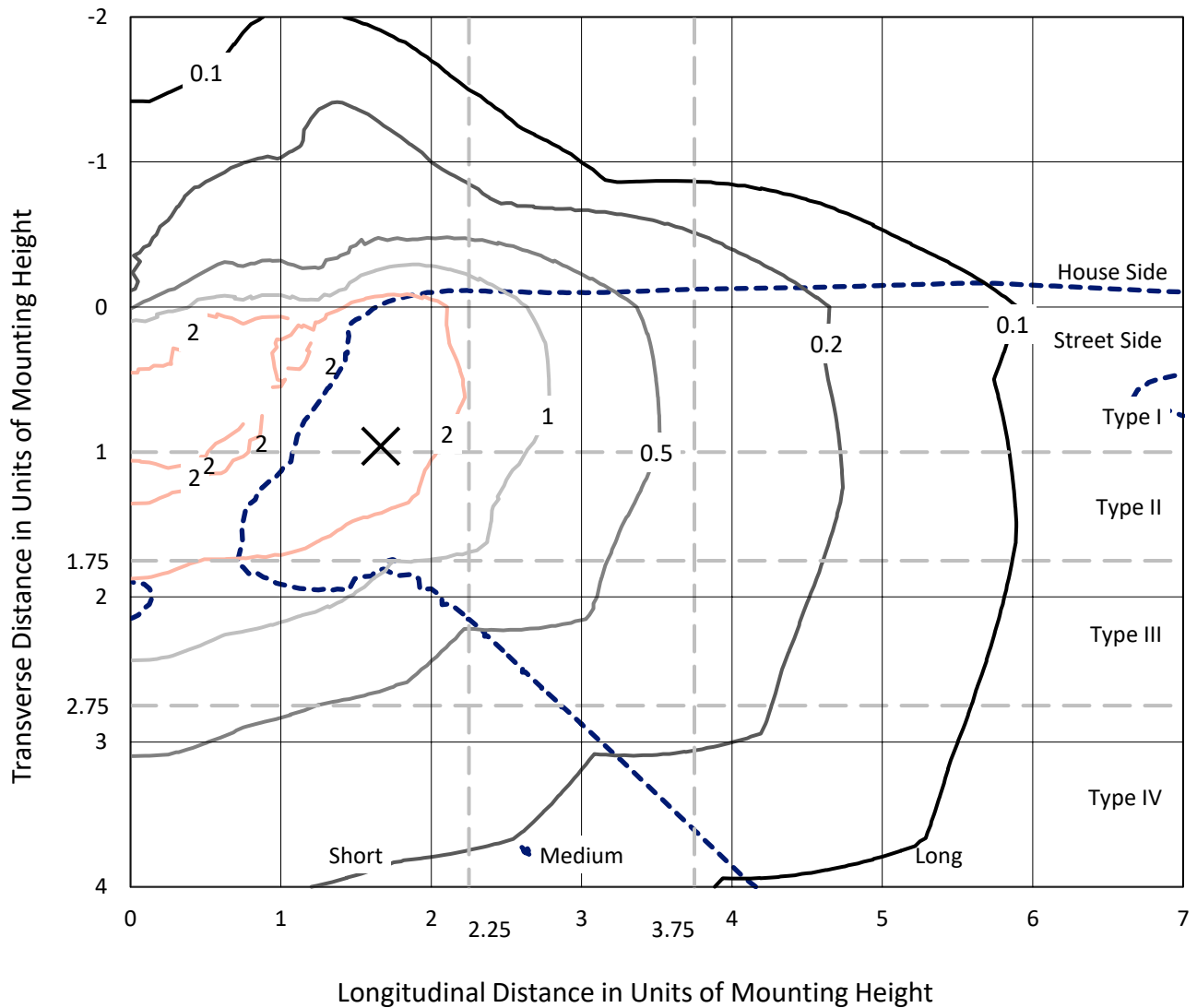
Input Watts (W): 52.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

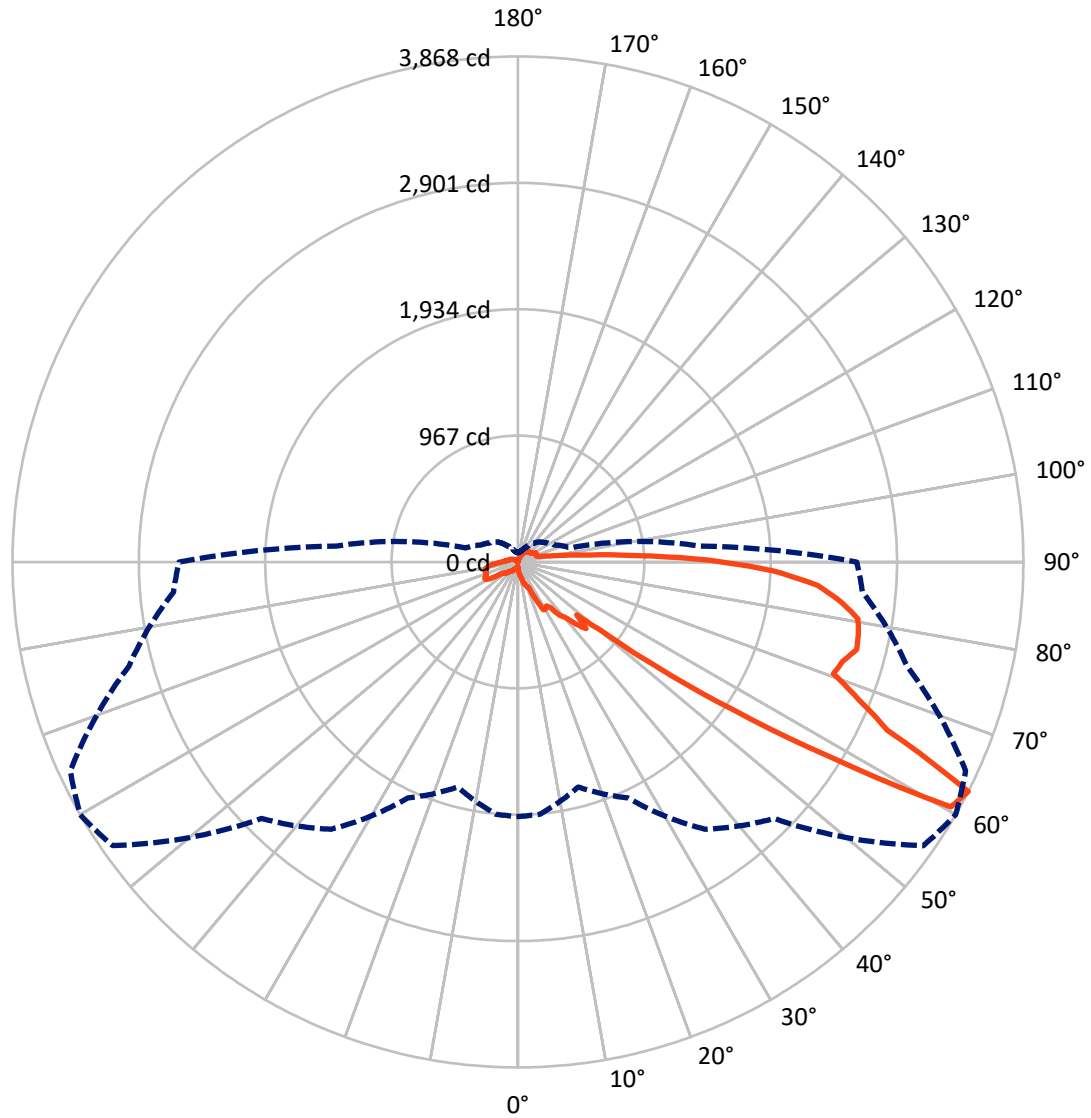
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 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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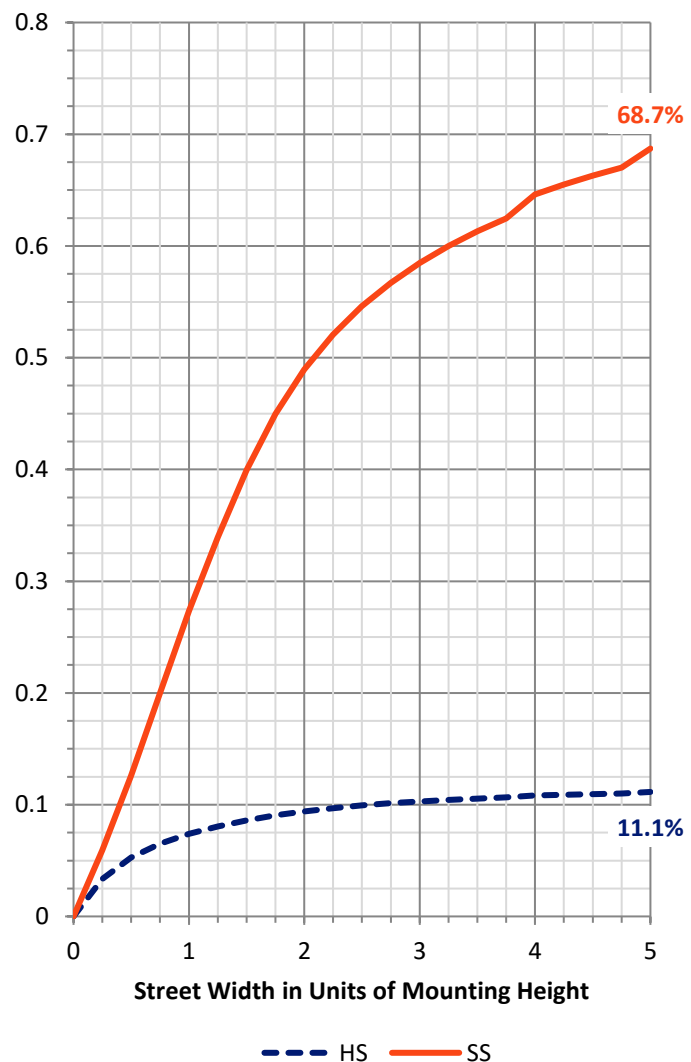
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	680.3	135.6	815.9
	% Fixture	11.7	2.3	14.1
Street Side	Lumens	4429.6	553.5	4983.1
	% Fixture	76.4	9.5	85.9
Total	Lumens	5109.9	689.1	5799.0
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.0	0.1
10°-20°	27.9	0.5
20°-30°	82.9	1.4
30°-40°	166.6	2.9
40°-50°	293.2	5.1
50°-60°	809.6	14.0
60°-70°	1399.8	24.1
70°-80°	1299.3	22.4
80°-90°	1024.5	17.7
90°-100°	325.1	5.6
100°-110°	116.0	2.0
110°-120°	95.3	1.6
120°-130°	62.7	1.1
130°-140°	44.6	0.8
140°-150°	28.9	0.5
150°-160°	13.3	0.2
160°-170°	3.3	0.1
170°-180°	0.1	0.0
0°-90°	5109.9	88.1
0°-180°	5799.0	100.0

Coefficient of Utilization



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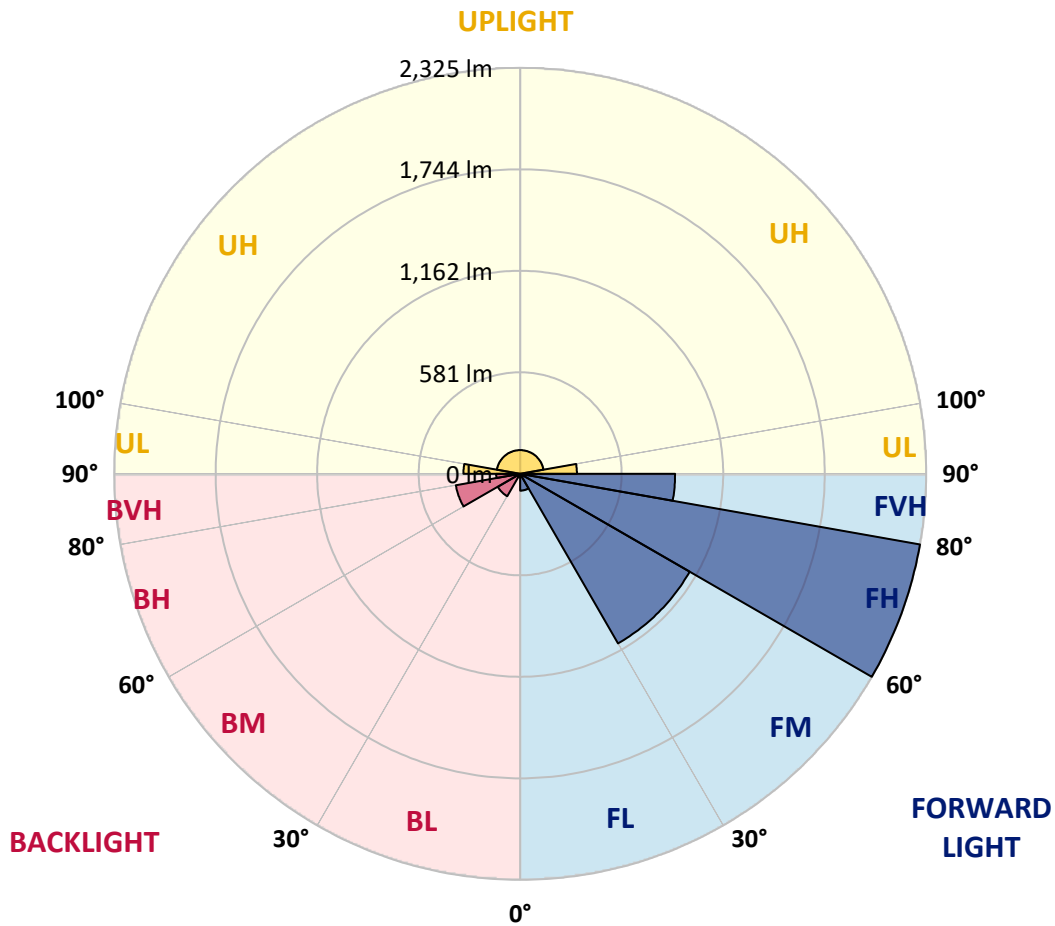
CATALOG NUMBER: ARC-CA6-100-722-U-33-X-5-X-GHSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	96.2	1.7			
FM (30°-60°)	1121.3	19.3			
FH (60°-80°)	2324.9	40.1			G2/5000
FVH (80°-90°)	887.1	15.3			G5
BL (0°-30°)	20.6	0.4	B0/110		
BM (30°-60°)	148.1	2.6	B0/220		
BH (60°-80°)	374.2	6.5	B1/500		G1/500
BVH (80°-90°)	137.4	2.4			G2/225
UL (90°-100°)	325.1	5.6		U3/500	
UH (100°-180°)	135.6	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°	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
2.5°	68.7	66.9	67.8	67.8	68.7	65.1	61.6	58.9	56.2	52.7	48.2
5°	98.2	96.4	93.7	92.8	91.0	87.5	82.1	80.3	75.0	67.8	58.9
7.5°	119.6	118.7	117.8	115.1	113.3	108.0	101.7	99.1	92.8	83.0	72.3
10°	135.7	135.7	136.5	132.1	124.0	119.6	114.2	112.4	108.0	94.6	81.2
12.5°	149.0	147.3	140.1	136.5	133.0	133.9	134.8	133.9	132.1	109.8	91.0
15°	161.5	159.7	154.4	149.9	147.3	156.2	175.8	174.0	173.1	138.3	106.2
17.5°	170.5	170.5	175.8	179.4	183.8	170.5	166.9	172.2	178.5	152.6	120.5
20°	196.3	192.8	188.3	184.7	207.0	197.2	200.8	207.0	211.5	170.5	132.1
22.5°	184.7	185.6	205.3	212.4	201.7	196.3	208.8	211.5	212.4	195.4	137.4
25°	252.6	241.0	233.8	256.1	254.3	293.6	305.2	313.2	313.2	265.1	191.9
27.5°	348.9	348.9	379.3	438.2	428.4	429.3	415.9	415.0	431.9	448.0	291.8
30°	378.4	388.2	473.0	502.4	534.6	494.4	450.7	416.8	423.9	510.5	340.0
32.5°	387.3	396.2	498.9	466.7	478.3	462.3	468.5	399.8	382.9	470.3	331.1
35°	338.2	350.7	434.6	393.6	371.3	419.4	477.5	428.4	420.3	386.4	299.9
37.5°	451.6	457.8	487.3	481.0	488.2	490.8	560.5	515.8	524.8	466.7	379.3
40°	518.5	511.4	626.5	654.2	643.4	633.6	627.4	558.7	569.4	540.8	513.2
42.5°	637.2	629.2	710.4	727.3	730.0	704.1	733.6	647.0	620.2	561.3	639.0
45°	645.2	649.7	726.4	682.7	728.2	775.5	829.1	729.1	680.9	581.9	742.5
47.5°	571.2	590.8	759.5	721.1	676.5	634.5	655.0	604.2	564.9	460.5	713.9
50°	582.8	590.8	698.8	653.3	543.5	672.9	853.2	816.6	773.7	571.2	688.1
52.5°	824.6	821.0	868.3	871.0	898.7	1010.2	1366.3	1336.9	1344.0	1112.0	1024.5
55°	1130.7	1128.9	1248.5	1439.5	1597.5	1651.9	2116.9	2000.8	1948.2	1723.3	1809.0
57.5°	1461.8	1477.0	1529.6	1797.4	2067.8	2138.3	2866.5	2806.7	2690.7	2248.0	2476.5
60°	1810.8	1801.8	1724.2	1900.0	2332.8	2684.5	3776.8	3805.4	3574.2	2829.9	2703.2
62.5°	1948.2	1936.6	1782.2	1991.9	2496.1	2775.5	3785.7	3867.8	3779.5	3081.6	2646.1
65°	1925.0	1898.2	1693.0	1858.1	2107.0	2361.4	3379.7	3107.5	3252.0	3151.2	2501.5
67.5°	1834.0	1827.7	1636.7	1727.8	1890.2	1923.2	3086.9	2812.1	2863.8	3213.7	2544.3
70°	1719.7	1717.9	1573.4	1642.1	1873.2	1839.3	2857.6	2562.2	2531.8	2876.3	2555.0
72.5°	1723.3	1721.5	1561.8	1585.0	1833.1	1777.7	2833.5	2597.9	2542.6	2710.3	2431.9
75°	1752.7	1754.5	1585.0	1610.8	1889.3	1790.2	2890.6	2677.3	2621.1	2694.3	2333.7
77.5°	1724.2	1738.5	1571.6	1629.6	1925.0	1788.4	2863.8	2662.1	2582.7	2562.2	2146.3
80°	1628.7	1648.3	1498.4	1565.3	1892.9	1812.5	2841.5	2638.9	2538.1	2425.6	2011.6
82.5°	1428.8	1449.3	1334.2	1395.8	1760.8	1713.5	2685.3	2489.0	2398.9	2202.5	1835.7
85°	1228.0	1275.3	1219.1	1228.0	1554.6	1568.9	2474.7	2301.6	2239.1	2067.8	1776.0
87.5°	1013.8	1054.9	1002.2	938.8	1164.6	1246.7	2046.4	1960.7	1943.7	1825.0	1541.2
90°	750.5	788.0	756.8	673.8	788.9	840.7	1508.2	1460.9	1497.5	1361.9	1059.3
92.5°	544.4	550.6	514.0	445.3	525.6	550.6	988.8	916.5	959.4	834.4	621.1
95°	364.1	379.3	350.7	321.3	381.1	383.7	609.5	556.0	532.8	479.2	371.3
97.5°	266.8	267.7	257.0	230.2	267.7	271.3	405.2	365.0	344.5	322.2	257.0
100°	211.5	211.5	195.4	178.5	186.5	193.7	282.0	254.3	243.6	233.8	193.7
102.5°	184.7	183.8	170.5	153.5	152.6	156.2	213.3	194.6	186.5	180.3	152.6
105°	174.9	174.0	160.6	142.8	138.3	135.7	177.6	165.1	159.7	154.4	137.4
107.5°	173.1	171.3	158.0	141.9	134.8	127.6	159.7	149.0	149.9	144.6	132.1
110°	174.9	174.9	163.3	153.5	141.9	132.1	160.6	149.0	152.6	150.8	137.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	170.5	174.9	170.5	164.2	151.7	143.7	167.8	154.4	158.9	158.9	141.9
115°	160.6	165.1	165.1	158.9	147.3	144.6	166.0	154.4	156.2	153.5	132.1
117.5°	147.3	149.9	148.1	141.0	131.2	129.4	154.4	149.0	149.0	141.0	123.2
120°	137.4	132.1	124.9	119.6	114.2	118.7	139.2	133.9	129.4	125.8	112.4
122.5°	123.2	116.9	108.9	106.2	102.6	108.9	126.7	122.3	117.8	116.0	106.2
125°	101.7	101.7	98.2	96.4	95.5	104.4	124.9	120.5	114.2	110.7	99.1
127.5°	98.2	98.2	95.5	93.7	94.6	105.3	122.3	117.8	110.7	106.2	95.5
130°	99.1	97.3	93.7	91.0	91.9	104.4	121.4	116.0	108.9	105.3	95.5
132.5°	93.7	91.9	89.2	87.5	86.6	99.1	115.1	112.4	107.1	99.1	88.4
135°	91.0	89.2	87.5	86.6	86.6	96.4	109.8	107.1	101.7	92.8	81.2
137.5°	90.1	88.4	84.8	83.9	83.0	91.9	102.6	100.8	95.5	87.5	77.6
140°	85.7	83.0	80.3	79.4	79.4	86.6	97.3	95.5	90.1	83.9	75.0
142.5°	79.4	77.6	75.0	75.0	75.9	83.0	94.6	93.7	87.5	80.3	72.3
145°	75.9	74.1	72.3	73.2	74.1	80.3	89.2	88.4	83.9	77.6	69.6
147.5°	69.6	68.7	66.9	66.0	67.8	73.2	83.0	83.0	80.3	72.3	64.3
150°	60.7	59.8	58.0	57.1	58.9	64.3	72.3	72.3	69.6	61.6	54.4
152.5°	50.9	50.0	50.0	50.9	52.7	55.3	62.5	63.4	60.7	52.7	46.4
155°	44.6	43.7	43.7	44.6	47.3	50.0	54.4	54.4	51.8	46.4	40.2
157.5°	38.4	37.5	37.5	38.4	41.1	42.8	47.3	46.4	44.6	40.2	34.8
160°	29.5	28.6	28.6	29.5	32.1	33.9	37.5	37.5	36.6	33.9	29.5
162.5°	22.3	21.4	21.4	22.3	24.1	25.0	27.7	28.6	28.6	26.8	23.2
165°	17.0	16.1	16.1	16.1	17.8	18.7	19.6	19.6	19.6	18.7	16.1
167.5°	10.7	9.8	9.8	10.7	11.6	11.6	12.5	12.5	11.6	11.6	9.8
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°	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
2.5°	46.4	45.5	41.9	36.6	31.2	25.9	25.0	25.9	26.8	27.7	28.6
5°	55.3	51.8	44.6	36.6	29.5	22.3	18.7	17.0	16.1	17.0	17.8
7.5°	66.9	62.5	53.5	43.7	34.8	27.7	23.2	18.7	16.1	16.1	17.0
10°	75.0	69.6	58.9	48.2	39.3	31.2	25.9	21.4	18.7	17.0	17.0
12.5°	83.9	76.7	62.5	50.9	41.1	33.9	28.6	24.1	21.4	19.6	19.6
15°	93.7	85.7	68.7	53.5	43.7	35.7	31.2	26.8	23.2	21.4	21.4
17.5°	109.8	96.4	72.3	56.2	45.5	37.5	32.1	27.7	24.1	22.3	22.3
20°	116.9	101.7	73.2	58.9	48.2	39.3	33.0	27.7	25.0	23.2	23.2
22.5°	116.9	100.8	75.0	60.7	50.9	41.1	33.9	28.6	25.0	23.2	23.2
25°	147.3	110.7	76.7	65.1	53.5	42.8	35.7	29.5	25.9	24.1	24.1
27.5°	206.2	144.6	88.4	69.6	57.1	45.5	37.5	31.2	26.8	25.0	25.0
30°	226.7	161.5	100.8	81.2	62.5	48.2	39.3	33.0	28.6	25.9	25.9
32.5°	231.1	158.9	108.0	89.2	71.4	52.7	41.1	34.8	29.5	26.8	26.8
35°	208.8	147.3	108.0	92.8	76.7	58.9	45.5	36.6	30.3	27.7	26.8
37.5°	243.6	158.9	110.7	93.7	79.4	63.4	50.9	39.3	32.1	28.6	28.6
40°	315.0	188.3	124.0	99.1	80.3	66.0	56.2	43.7	34.8	30.3	30.3
42.5°	368.6	212.4	138.3	112.4	87.5	69.6	58.0	47.3	38.4	33.0	32.1
45°	414.1	235.6	150.8	124.9	100.0	77.6	61.6	50.9	41.9	36.6	35.7
47.5°	422.1	247.2	160.6	137.4	109.8	85.7	66.9	54.4	46.4	40.2	39.3
50°	407.8	248.1	164.2	145.5	120.5	94.6	73.2	58.9	50.0	43.7	43.7
52.5°	582.8	309.7	180.3	149.9	124.0	101.7	81.2	64.3	53.5	48.2	48.2
55°	1051.3	500.7	232.9	177.6	133.0	107.1	88.4	72.3	58.9	52.7	52.7
57.5°	1699.2	781.8	307.9	237.4	171.3	124.0	96.4	80.3	66.0	57.1	57.1
60°	2251.6	1103.1	374.8	289.1	224.9	170.5	116.9	91.0	74.1	63.4	62.5
62.5°	2592.5	1392.2	414.1	308.8	257.0	216.0	157.1	114.2	83.9	72.3	70.5
65°	2516.7	1536.8	431.0	307.0	255.2	230.2	187.4	141.9	100.8	83.0	80.3
67.5°	2311.4	1537.7	428.4	293.6	241.9	218.6	186.5	153.5	116.9	93.7	90.1
70°	2208.8	1510.9	415.0	283.8	231.1	204.4	173.1	141.0	115.1	100.0	98.2
72.5°	2159.7	1493.0	407.0	282.0	229.4	199.0	164.2	125.8	103.5	95.5	97.3
75°	2171.3	1503.8	410.5	284.7	232.9	201.7	160.6	116.9	91.0	82.1	83.9
77.5°	2145.4	1482.3	415.9	283.8	231.1	197.2	149.9	107.1	83.0	74.1	73.2
80°	2166.8	1435.9	403.4	274.9	217.8	179.4	133.0	95.5	75.9	69.6	68.7
82.5°	2002.6	1250.3	358.8	250.8	197.2	154.4	111.6	83.9	71.4	64.3	64.3
85°	1835.7	1013.8	307.9	220.4	162.4	121.4	89.2	73.2	62.5	57.1	57.1
87.5°	1393.1	726.4	238.3	181.2	135.7	104.4	81.2	70.5	61.6	58.0	57.1
90°	861.2	448.0	177.6	144.6	115.1	92.8	76.7	67.8	60.7	58.0	58.0
92.5°	481.9	286.5	137.4	118.7	99.1	83.0	70.5	61.6	55.3	52.7	52.7
95°	326.6	214.2	117.8	106.2	88.4	73.2	61.6	53.5	48.2	44.6	44.6
97.5°	236.5	168.7	104.4	95.5	79.4	64.3	54.4	46.4	41.9	40.2	40.2
100°	181.2	136.5	94.6	85.7	70.5	56.2	47.3	40.2	35.7	33.9	33.9
102.5°	145.5	115.1	85.7	77.6	62.5	50.0	40.2	33.0	29.5	28.6	27.7
105°	131.2	107.1	80.3	72.3	57.1	45.5	35.7	29.5	25.9	24.1	24.1
107.5°	127.6	107.1	79.4	70.5	54.4	42.8	32.1	26.8	23.2	21.4	21.4
110°	135.7	113.3	80.3	68.7	50.9	39.3	29.5	24.1	20.5	19.6	19.6



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CATALOG NUMBER: ARC-CA6-100-722-U-33-X-5-X-GHSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	140.1	114.2	76.7	64.3	47.3	35.7	27.7	22.3	19.6	17.8	17.8
115°	128.5	102.6	70.5	57.1	41.9	32.1	25.9	21.4	17.8	16.1	16.1
117.5°	124.0	96.4	68.7	50.0	38.4	29.5	24.1	19.6	17.0	15.2	15.2
120°	124.0	93.7	60.7	43.7	34.8	26.8	22.3	17.8	15.2	14.3	14.3
122.5°	119.6	86.6	53.5	38.4	30.3	23.2	19.6	16.1	14.3	12.5	12.5
125°	108.9	80.3	43.7	34.8	27.7	21.4	17.8	15.2	12.5	11.6	11.6
127.5°	102.6	79.4	41.1	32.1	25.0	19.6	16.1	13.4	10.7	9.8	9.8
130°	101.7	79.4	38.4	28.6	22.3	17.0	14.3	11.6	9.8	8.9	8.9
132.5°	91.0	72.3	36.6	26.8	20.5	16.1	13.4	10.7	8.9	8.0	8.0
135°	82.1	66.9	35.7	25.0	18.7	14.3	11.6	9.8	7.1	7.1	7.1
137.5°	75.9	61.6	35.7	23.2	17.0	12.5	10.7	8.9	6.2	6.2	6.2
140°	71.4	57.1	34.8	22.3	15.2	11.6	9.8	7.1	5.4	5.4	5.4
142.5°	66.9	53.5	32.1	21.4	14.3	9.8	8.9	7.1	5.4	4.5	4.5
145°	61.6	49.1	28.6	19.6	13.4	8.9	8.0	6.2	4.5	3.6	3.6
147.5°	56.2	43.7	25.0	17.0	12.5	8.0	7.1	5.4	3.6	3.6	3.6
150°	48.2	37.5	22.3	15.2	10.7	7.1	6.2	4.5	3.6	2.7	2.7
152.5°	39.3	32.1	19.6	13.4	9.8	6.2	5.4	3.6	2.7	1.8	1.8
155°	34.8	28.6	17.8	11.6	8.0	5.4	4.5	2.7	2.7	1.8	1.8
157.5°	30.3	25.0	16.1	9.8	6.2	3.6	3.6	2.7	1.8	1.8	0.9
160°	25.0	21.4	13.4	8.0	5.4	2.7	2.7	1.8	1.8	0.9	0.9
162.5°	19.6	16.1	9.8	6.2	3.6	1.8	1.8	1.8	1.8	0.9	0.0
165°	13.4	11.6	7.1	4.5	2.7	0.9	0.9	1.8	0.9	0.9	0.0
167.5°	8.9	7.1	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)