

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: P588618

Luminaire Tested: **ARC-CA6-80-740-U-33-X-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588618
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-CA6-80-740-U-33-X-5-X-GHSS
Description: GENERATIONS SERIES AVENUE WITH NO CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD
Light Source: (3) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5701 lumens
Efficiency: N/A
Efficacy: 134.8 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

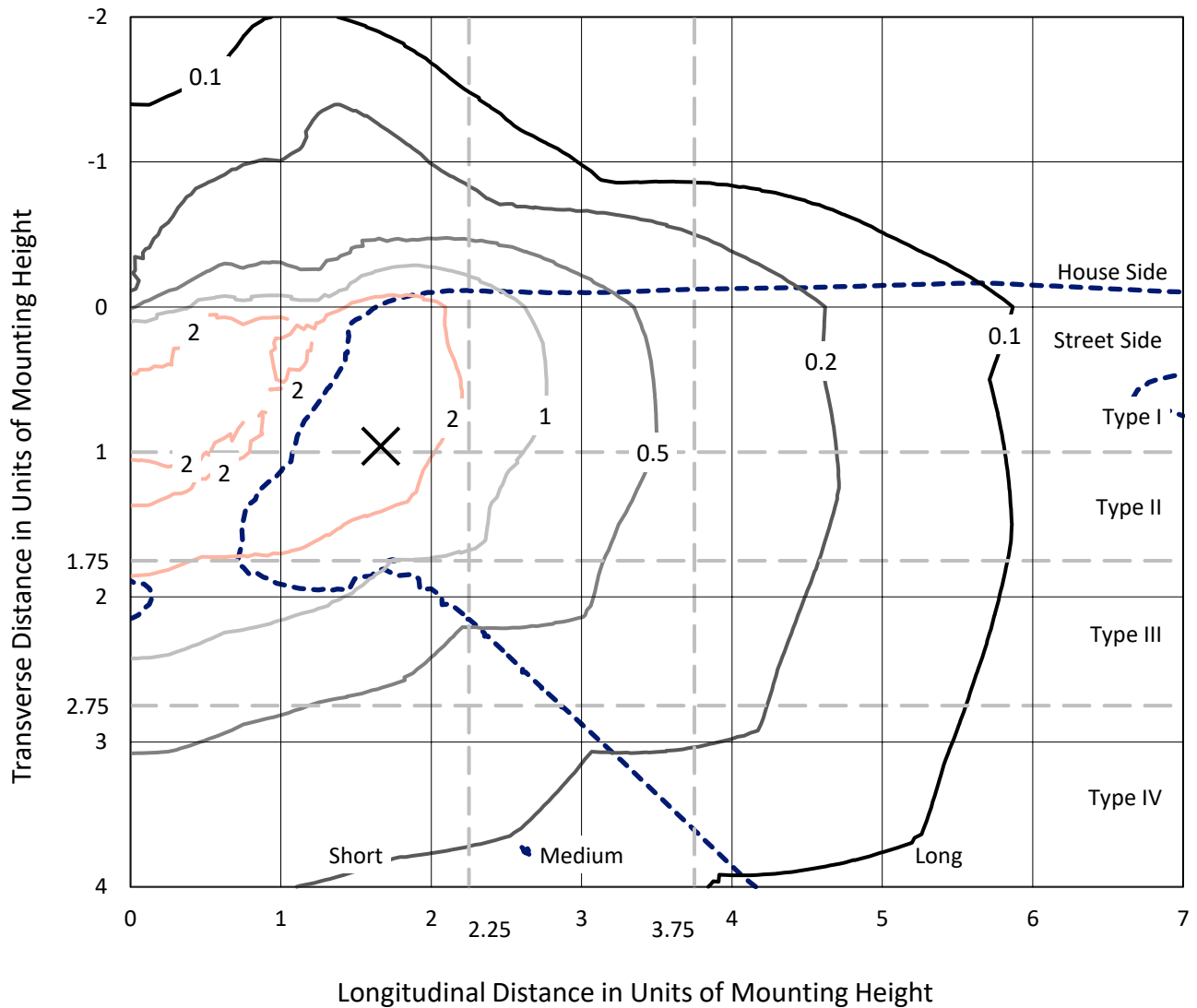
Input Watts (W): 42.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

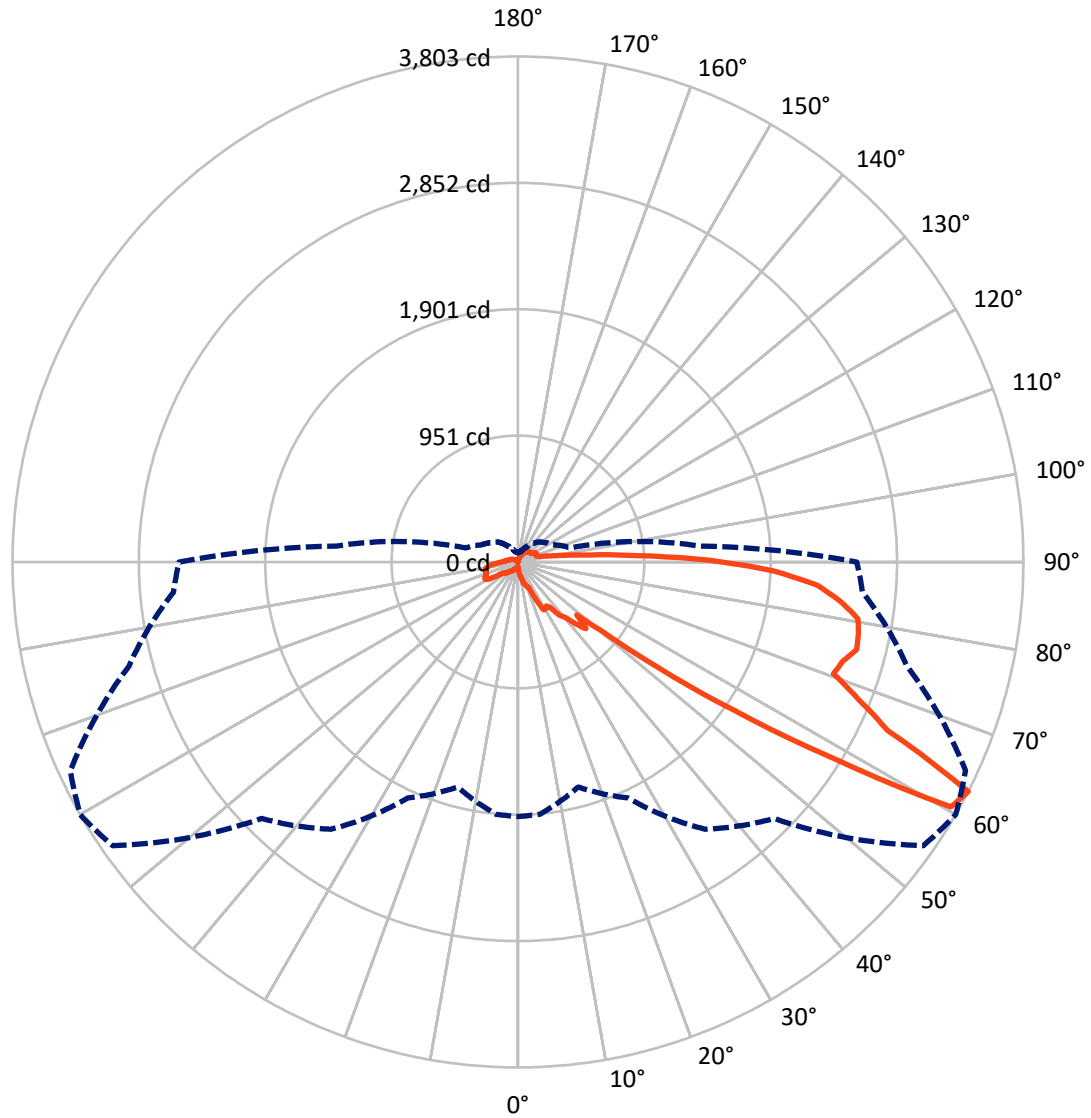
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 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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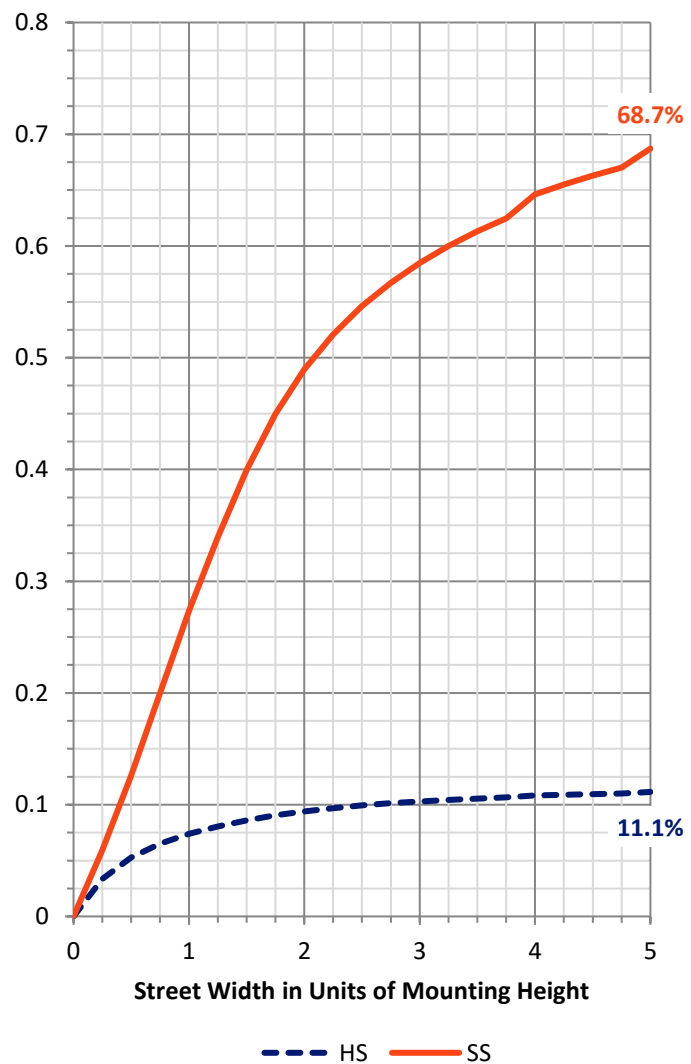
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	668.8	133.3	802.1
	% Fixture	11.7	2.3	14.1
Street Side	Lumens	4354.7	544.1	4898.9
	% Fixture	76.4	9.5	85.9
Total	Lumens	5023.5	677.5	5701.0
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	0.1
10°-20°	27.4	0.5
20°-30°	81.5	1.4
30°-40°	163.8	2.9
40°-50°	288.3	5.1
50°-60°	795.9	14.0
60°-70°	1376.1	24.1
70°-80°	1277.3	22.4
80°-90°	1007.2	17.7
90°-100°	319.6	5.6
100°-110°	114.0	2.0
110°-120°	93.7	1.6
120°-130°	61.6	1.1
130°-140°	43.9	0.8
140°-150°	28.4	0.5
150°-160°	13.0	0.2
160°-170°	3.2	0.1
170°-180°	0.1	0.0
0°-90°	5023.5	88.1
0°-180°	5701.0	100.0

Coefficient of Utilization



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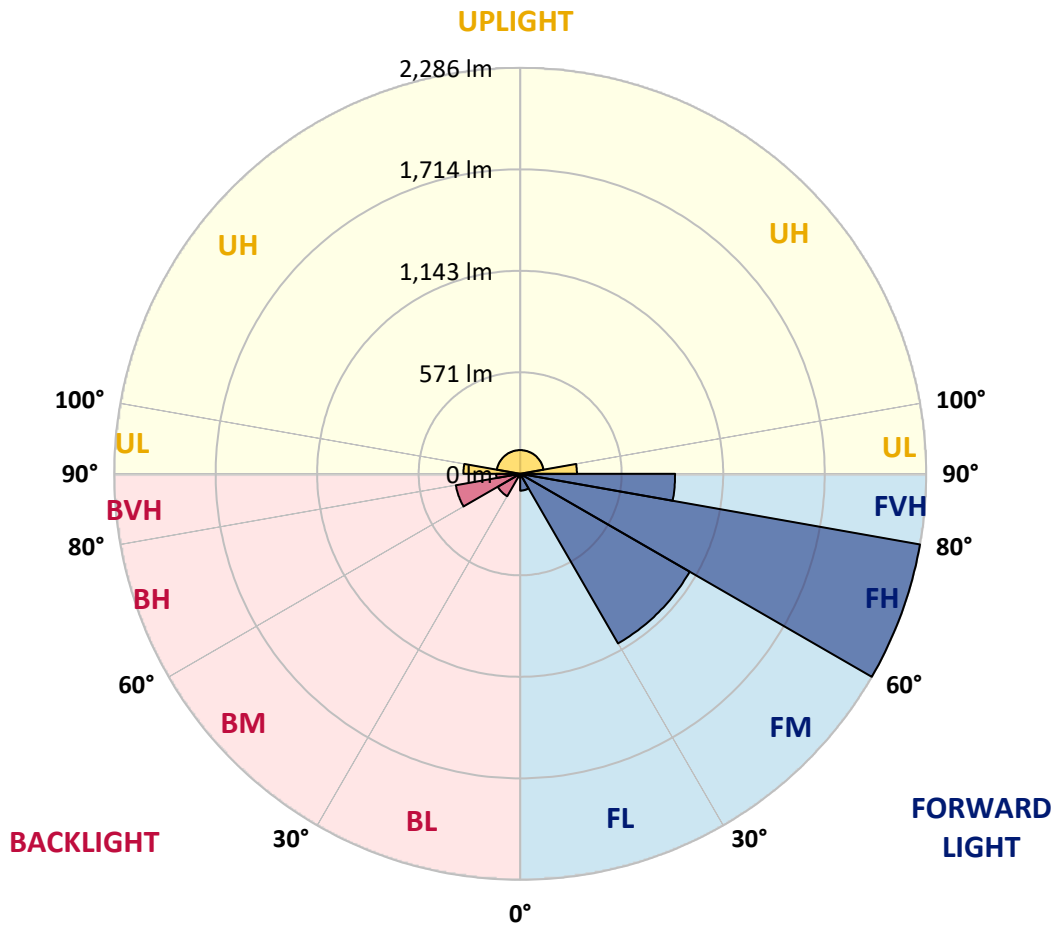
CATALOG NUMBER: ARC-CA6-80-740-U-33-X-5-X-GHSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	94.6	1.7			
FM (30°-60°)	1102.4	19.3			
FH (60°-80°)	2285.6	40.1			G2/5000
FVH (80°-90°)	872.2	15.3			G5
BL (0°-30°)	20.2	0.4	B0/110		
BM (30°-60°)	145.6	2.6	B0/220		
BH (60°-80°)	367.9	6.5	B1/500		G1/500
BVH (80°-90°)	135.1	2.4			G2/225
UL (90°-100°)	319.6	5.6		U3/500	
UH (100°-180°)	133.3	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°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
2.5°	67.6	65.8	66.7	66.7	67.6	64.0	60.5	57.9	55.3	51.8	47.4
5°	96.5	94.8	92.1	91.2	89.5	86.0	80.7	79.0	73.7	66.7	57.9
7.5°	117.6	116.7	115.8	113.2	111.4	106.2	100.0	97.4	91.2	81.6	71.1
10°	133.4	133.4	134.2	129.8	122.0	117.6	112.3	110.5	106.2	93.0	79.8
12.5°	146.5	144.8	137.7	134.2	130.7	131.6	132.5	131.6	129.8	107.9	89.5
15°	158.8	157.0	151.8	147.4	144.8	153.5	172.8	171.1	170.2	136.0	104.4
17.5°	167.6	167.6	172.8	176.3	180.7	167.6	164.1	169.3	175.5	150.0	118.4
20°	193.0	189.5	185.1	181.6	203.5	193.9	197.4	203.5	207.9	167.6	129.8
22.5°	181.6	182.5	201.8	208.8	198.3	193.0	205.3	207.9	208.8	192.1	135.1
25°	248.3	236.9	229.9	251.8	250.0	288.6	300.1	308.0	308.0	260.6	188.6
27.5°	343.0	343.0	372.9	430.8	421.1	422.0	408.8	408.0	424.6	440.4	286.9
30°	372.0	381.6	465.0	494.0	525.5	486.1	443.1	409.7	416.7	501.8	334.3
32.5°	380.8	389.5	490.4	458.9	470.3	454.5	460.6	393.1	376.4	462.4	325.5
35°	332.5	344.8	427.3	386.9	365.0	412.4	469.4	421.1	413.2	379.9	294.8
37.5°	443.9	450.1	479.0	472.9	479.9	482.5	551.0	507.1	515.9	458.9	372.9
40°	509.7	502.7	615.9	643.1	632.6	622.9	616.8	549.2	559.8	531.7	504.5
42.5°	626.4	618.5	698.4	715.0	717.7	692.2	721.2	636.1	609.8	551.9	628.2
45°	634.3	638.7	714.2	671.2	715.9	762.4	815.1	716.8	669.4	572.0	730.0
47.5°	561.5	580.8	746.6	708.9	665.0	623.8	644.0	594.0	555.4	452.7	701.9
50°	572.9	580.8	687.0	642.2	534.3	661.5	838.8	802.8	760.7	561.5	676.4
52.5°	810.7	807.2	853.7	856.3	883.5	993.2	1343.2	1314.3	1321.3	1093.2	1007.2
55°	1111.6	1109.9	1227.4	1415.2	1570.5	1624.0	2081.1	1967.0	1915.3	1694.2	1778.4
57.5°	1437.1	1452.0	1503.8	1767.0	2032.8	2102.1	2818.1	2759.3	2645.2	2210.1	2434.7
60°	1780.2	1771.4	1695.1	1867.9	2293.4	2639.1	3713.0	3741.0	3513.8	2782.1	2657.5
62.5°	1915.3	1903.9	1752.1	1958.3	2454.0	2728.6	3721.7	3802.5	3715.6	3029.5	2601.4
65°	1892.5	1866.1	1664.3	1826.7	2071.4	2321.5	3322.5	3055.0	3197.1	3097.9	2459.2
67.5°	1803.0	1796.8	1609.1	1698.6	1858.2	1890.7	3034.8	2764.5	2815.4	3159.4	2501.3
70°	1690.7	1688.9	1546.8	1614.3	1841.6	1808.2	2809.3	2518.9	2489.1	2827.7	2511.9
72.5°	1694.2	1692.4	1535.4	1558.2	1802.1	1747.7	2785.6	2554.0	2499.6	2664.5	2390.8
75°	1723.1	1724.9	1558.2	1583.6	1857.4	1760.0	2841.8	2632.1	2576.8	2648.7	2294.3
77.5°	1695.1	1709.1	1545.0	1602.1	1892.5	1758.2	2815.4	2617.2	2539.1	2518.9	2110.0
80°	1601.2	1620.5	1473.1	1538.9	1860.9	1781.9	2793.5	2594.3	2495.2	2384.7	1977.6
82.5°	1404.6	1424.8	1311.6	1372.2	1731.0	1684.5	2640.0	2446.9	2358.3	2165.3	1804.7
85°	1207.2	1253.7	1198.5	1207.2	1528.4	1542.4	2432.9	2262.7	2201.3	2032.8	1745.9
87.5°	996.7	1037.0	985.3	923.0	1144.9	1225.7	2011.8	1927.6	1910.9	1794.2	1515.2
90°	737.9	774.7	744.0	662.4	775.6	826.5	1482.7	1436.2	1472.2	1338.8	1041.4
92.5°	535.2	541.3	505.4	437.8	516.8	541.3	972.1	901.0	943.2	820.3	610.6
95°	358.0	372.9	344.8	315.8	374.6	377.3	599.2	546.6	523.8	471.1	365.0
97.5°	262.3	263.2	252.7	226.4	263.2	266.7	398.3	358.8	338.7	316.7	252.7
100°	207.9	207.9	192.1	175.5	183.4	190.4	277.2	250.0	239.5	229.9	190.4
102.5°	181.6	180.7	167.6	150.9	150.0	153.5	209.7	191.3	183.4	177.2	150.0
105°	172.0	171.1	157.9	140.4	136.0	133.4	174.6	162.3	157.0	151.8	135.1
107.5°	170.2	168.5	155.3	139.5	132.5	125.5	157.0	146.5	147.4	142.1	129.8
110°	172.0	172.0	160.6	150.9	139.5	129.8	157.9	146.5	150.0	148.3	135.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	167.6	172.0	167.6	161.4	149.2	141.3	164.9	151.8	156.2	156.2	139.5
115°	157.9	162.3	162.3	156.2	144.8	142.1	163.2	151.8	153.5	150.9	129.8
117.5°	144.8	147.4	145.6	138.6	129.0	127.2	151.8	146.5	146.5	138.6	121.1
120°	135.1	129.8	122.8	117.6	112.3	116.7	136.9	131.6	127.2	123.7	110.5
122.5°	121.1	114.9	107.0	104.4	100.9	107.0	124.6	120.2	115.8	114.1	104.4
125°	100.0	100.0	96.5	94.8	93.9	102.7	122.8	118.4	112.3	108.8	97.4
127.5°	96.5	96.5	93.9	92.1	93.0	103.5	120.2	115.8	108.8	104.4	93.9
130°	97.4	95.6	92.1	89.5	90.4	102.7	119.3	114.1	107.0	103.5	93.9
132.5°	92.1	90.4	87.7	86.0	85.1	97.4	113.2	110.5	105.3	97.4	86.9
135°	89.5	87.7	86.0	85.1	85.1	94.8	107.9	105.3	100.0	91.2	79.8
137.5°	88.6	86.9	83.3	82.5	81.6	90.4	100.9	99.1	93.9	86.0	76.3
140°	84.2	81.6	79.0	78.1	78.1	85.1	95.6	93.9	88.6	82.5	73.7
142.5°	78.1	76.3	73.7	73.7	74.6	81.6	93.0	92.1	86.0	79.0	71.1
145°	74.6	72.8	71.1	71.9	72.8	79.0	87.7	86.9	82.5	76.3	68.4
147.5°	68.4	67.6	65.8	64.9	66.7	71.9	81.6	81.6	79.0	71.1	63.2
150°	59.7	58.8	57.0	56.2	57.9	63.2	71.1	71.1	68.4	60.5	53.5
152.5°	50.0	49.1	49.1	50.0	51.8	54.4	61.4	62.3	59.7	51.8	45.6
155°	43.9	43.0	43.0	43.9	46.5	49.1	53.5	53.5	50.9	45.6	39.5
157.5°	37.7	36.8	36.8	37.7	40.4	42.1	46.5	45.6	43.9	39.5	34.2
160°	29.0	28.1	28.1	29.0	31.6	33.3	36.8	36.8	36.0	33.3	29.0
162.5°	21.9	21.1	21.1	21.9	23.7	24.6	27.2	28.1	28.1	26.3	22.8
165°	16.7	15.8	15.8	15.8	17.5	18.4	19.3	19.3	19.3	18.4	15.8
167.5°	10.5	9.7	9.7	10.5	11.4	11.4	12.3	12.3	11.4	11.4	9.7
170°	5.3	4.4	4.4	5.3	5.3	5.3	4.4	3.5	3.5	3.5	3.5
172.5°	1.8	0.9	2.6	2.6	1.8	0.0	0.0	0.9	0.9	0.9	0.0
175°	1.8	0.9	2.6	2.6	1.8	0.0	0.0	0.9	0.0	0.9	0.0
177.5°	0.9	0.9	2.6	2.6	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°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
2.5°	45.6	44.7	41.2	36.0	30.7	25.4	24.6	25.4	26.3	27.2	28.1
5°	54.4	50.9	43.9	36.0	29.0	21.9	18.4	16.7	15.8	16.7	17.5
7.5°	65.8	61.4	52.6	43.0	34.2	27.2	22.8	18.4	15.8	15.8	16.7
10°	73.7	68.4	57.9	47.4	38.6	30.7	25.4	21.1	18.4	16.7	16.7
12.5°	82.5	75.5	61.4	50.0	40.4	33.3	28.1	23.7	21.1	19.3	19.3
15°	92.1	84.2	67.6	52.6	43.0	35.1	30.7	26.3	22.8	21.1	21.1
17.5°	107.9	94.8	71.1	55.3	44.7	36.8	31.6	27.2	23.7	21.9	21.9
20°	114.9	100.0	71.9	57.9	47.4	38.6	32.5	27.2	24.6	22.8	22.8
22.5°	114.9	99.1	73.7	59.7	50.0	40.4	33.3	28.1	24.6	22.8	22.8
25°	144.8	108.8	75.5	64.0	52.6	42.1	35.1	29.0	25.4	23.7	23.7
27.5°	202.7	142.1	86.9	68.4	56.2	44.7	36.8	30.7	26.3	24.6	24.6
30°	222.8	158.8	99.1	79.8	61.4	47.4	38.6	32.5	28.1	25.4	25.4
32.5°	227.2	156.2	106.2	87.7	70.2	51.8	40.4	34.2	29.0	26.3	26.3
35°	205.3	144.8	106.2	91.2	75.5	57.9	44.7	36.0	29.8	27.2	26.3
37.5°	239.5	156.2	108.8	92.1	78.1	62.3	50.0	38.6	31.6	28.1	28.1
40°	309.7	185.1	122.0	97.4	79.0	64.9	55.3	43.0	34.2	29.8	29.8
42.5°	362.3	208.8	136.0	110.5	86.0	68.4	57.0	46.5	37.7	32.5	31.6
45°	407.1	231.6	148.3	122.8	98.3	76.3	60.5	50.0	41.2	36.0	35.1
47.5°	415.0	243.0	157.9	135.1	107.9	84.2	65.8	53.5	45.6	39.5	38.6
50°	401.0	243.9	161.4	143.0	118.4	93.0	71.9	57.9	49.1	43.0	43.0
52.5°	572.9	304.4	177.2	147.4	122.0	100.0	79.8	63.2	52.6	47.4	47.4
55°	1033.5	492.2	229.0	174.6	130.7	105.3	86.9	71.1	57.9	51.8	51.8
57.5°	1670.5	768.6	302.7	233.4	168.5	122.0	94.8	79.0	64.9	56.2	56.2
60°	2213.6	1084.4	368.5	284.3	221.1	167.6	114.9	89.5	72.8	62.3	61.4
62.5°	2548.7	1368.7	407.1	303.6	252.7	212.3	154.4	112.3	82.5	71.1	69.3
65°	2474.1	1510.8	423.8	301.8	250.9	226.4	184.2	139.5	99.1	81.6	79.0
67.5°	2272.4	1511.7	421.1	288.6	237.8	215.0	183.4	150.9	114.9	92.1	88.6
70°	2171.5	1485.4	408.0	279.0	227.2	200.9	170.2	138.6	113.2	98.3	96.5
72.5°	2123.2	1467.8	400.1	277.2	225.5	195.7	161.4	123.7	101.8	93.9	95.6
75°	2134.6	1478.3	403.6	279.9	229.0	198.3	157.9	114.9	89.5	80.7	82.5
77.5°	2109.2	1457.3	408.8	279.0	227.2	193.9	147.4	105.3	81.6	72.8	71.9
80°	2130.2	1411.7	396.6	270.2	214.1	176.3	130.7	93.9	74.6	68.4	67.6
82.5°	1968.8	1229.2	352.7	246.5	193.9	151.8	109.7	82.5	70.2	63.2	63.2
85°	1804.7	996.7	302.7	216.7	159.7	119.3	87.7	71.9	61.4	56.2	56.2
87.5°	1369.6	714.2	234.3	178.1	133.4	102.7	79.8	69.3	60.5	57.0	56.2
90°	846.6	440.4	174.6	142.1	113.2	91.2	75.5	66.7	59.7	57.0	57.0
92.5°	473.8	281.6	135.1	116.7	97.4	81.6	69.3	60.5	54.4	51.8	51.8
95°	321.1	210.6	115.8	104.4	86.9	71.9	60.5	52.6	47.4	43.9	43.9
97.5°	232.5	165.8	102.7	93.9	78.1	63.2	53.5	45.6	41.2	39.5	39.5
100°	178.1	134.2	93.0	84.2	69.3	55.3	46.5	39.5	35.1	33.3	33.3
102.5°	143.0	113.2	84.2	76.3	61.4	49.1	39.5	32.5	29.0	28.1	27.2
105°	129.0	105.3	79.0	71.1	56.2	44.7	35.1	29.0	25.4	23.7	23.7
107.5°	125.5	105.3	78.1	69.3	53.5	42.1	31.6	26.3	22.8	21.1	21.1
110°	133.4	111.4	79.0	67.6	50.0	38.6	29.0	23.7	20.2	19.3	19.3



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CATALOG NUMBER: ARC-CA6-80-740-U-33-X-5-X-GHSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	137.7	112.3	75.5	63.2	46.5	35.1	27.2	21.9	19.3	17.5	17.5
115°	126.3	100.9	69.3	56.2	41.2	31.6	25.4	21.1	17.5	15.8	15.8
117.5°	122.0	94.8	67.6	49.1	37.7	29.0	23.7	19.3	16.7	14.9	14.9
120°	122.0	92.1	59.7	43.0	34.2	26.3	21.9	17.5	14.9	14.0	14.0
122.5°	117.6	85.1	52.6	37.7	29.8	22.8	19.3	15.8	14.0	12.3	12.3
125°	107.0	79.0	43.0	34.2	27.2	21.1	17.5	14.9	12.3	11.4	11.4
127.5°	100.9	78.1	40.4	31.6	24.6	19.3	15.8	13.2	10.5	9.7	9.7
130°	100.0	78.1	37.7	28.1	21.9	16.7	14.0	11.4	9.7	8.8	8.8
132.5°	89.5	71.1	36.0	26.3	20.2	15.8	13.2	10.5	8.8	7.9	7.9
135°	80.7	65.8	35.1	24.6	18.4	14.0	11.4	9.7	7.0	7.0	7.0
137.5°	74.6	60.5	35.1	22.8	16.7	12.3	10.5	8.8	6.1	6.1	6.1
140°	70.2	56.2	34.2	21.9	14.9	11.4	9.7	7.0	5.3	5.3	5.3
142.5°	65.8	52.6	31.6	21.1	14.0	9.7	8.8	7.0	5.3	4.4	4.4
145°	60.5	48.3	28.1	19.3	13.2	8.8	7.9	6.1	4.4	3.5	3.5
147.5°	55.3	43.0	24.6	16.7	12.3	7.9	7.0	5.3	3.5	3.5	3.5
150°	47.4	36.8	21.9	14.9	10.5	7.0	6.1	4.4	3.5	2.6	2.6
152.5°	38.6	31.6	19.3	13.2	9.7	6.1	5.3	3.5	2.6	1.8	1.8
155°	34.2	28.1	17.5	11.4	7.9	5.3	4.4	2.6	2.6	1.8	1.8
157.5°	29.8	24.6	15.8	9.7	6.1	3.5	3.5	2.6	1.8	1.8	0.9
160°	24.6	21.1	13.2	7.9	5.3	2.6	2.6	1.8	1.8	0.9	0.9
162.5°	19.3	15.8	9.7	6.1	3.5	1.8	1.8	1.8	1.8	0.9	0.0
165°	13.2	11.4	7.0	4.4	2.6	0.9	0.9	1.8	0.9	0.9	0.0
167.5°	8.8	7.0	4.4	2.6	1.8	0.0	0.9	0.9	0.9	0.9	0.0
170°	3.5	3.5	2.6	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)