

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: P588620

Luminaire Tested: **ARC-CA6-80-750-U-33-X-5-X-GHSS**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588620  
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-CA6-80-750-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**

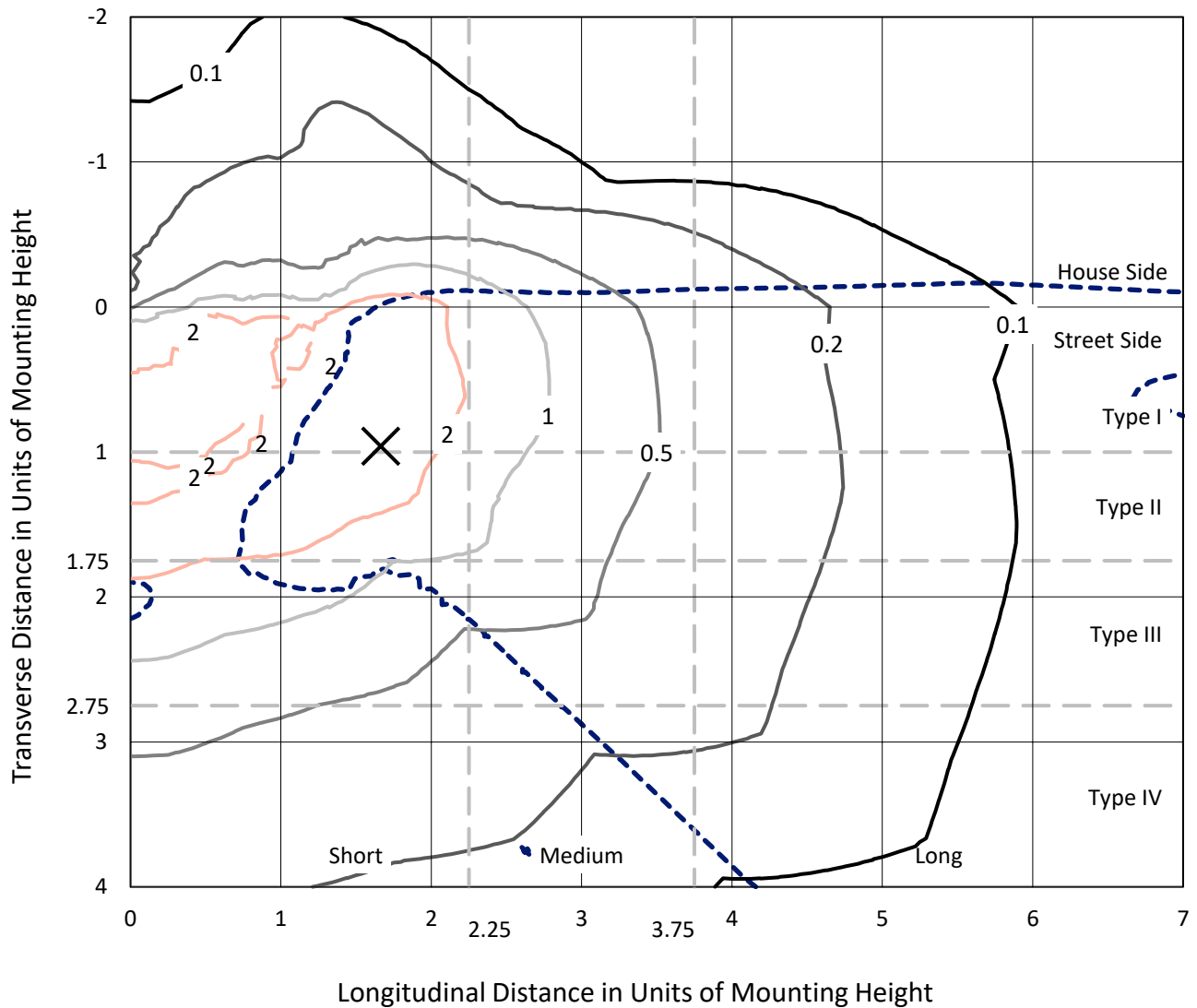
Lumens per Lamp: N/A  
Luminaire Lumens: 5806 lumens  
Efficiency: N/A  
Efficacy: 137.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.08')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U3 - G5  
  
Input Watts (W): 42.3  
Input Voltage (V): 120  
Input 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

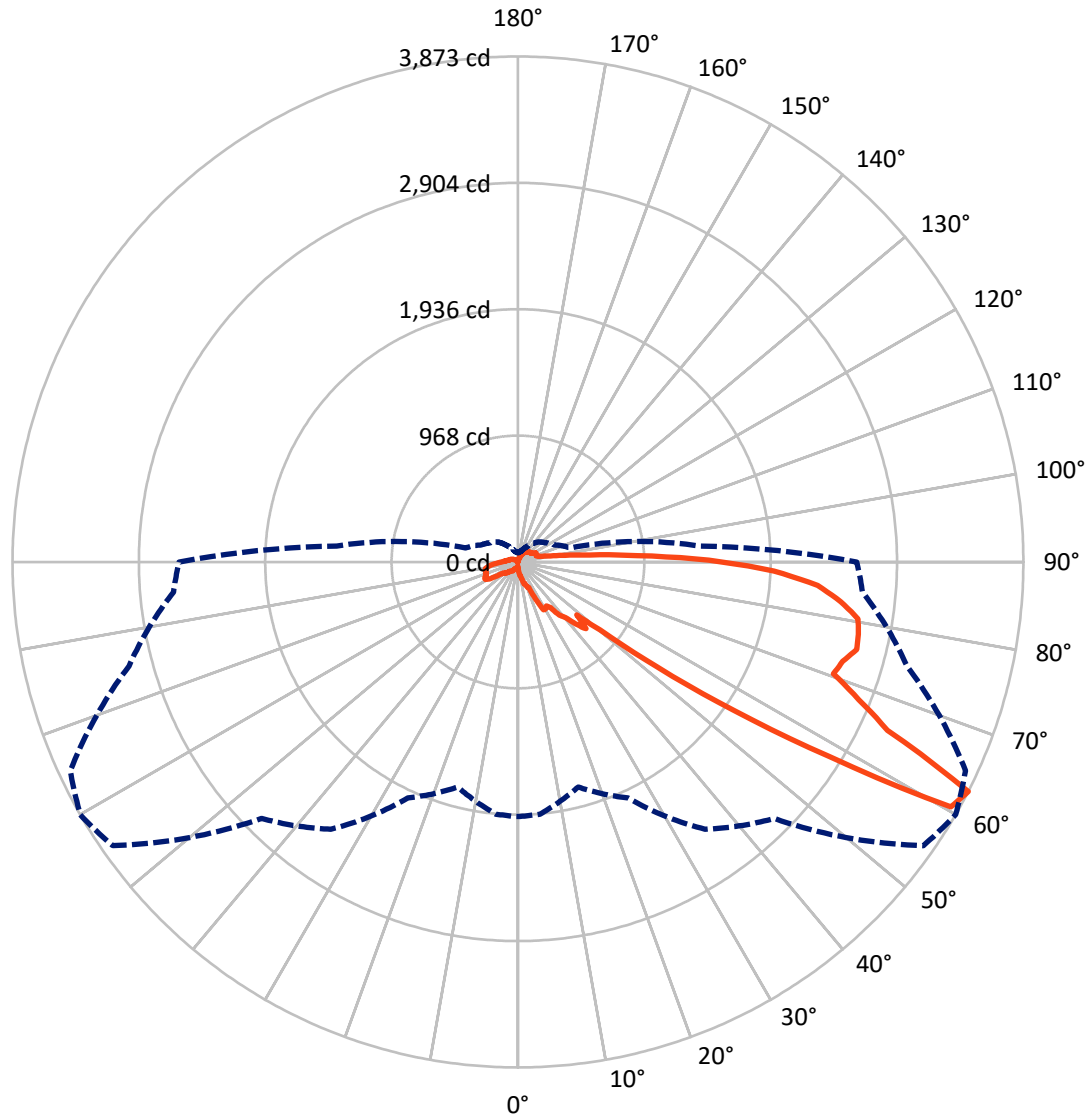
✕ Max cd  
 - - - 1/2 Max cd



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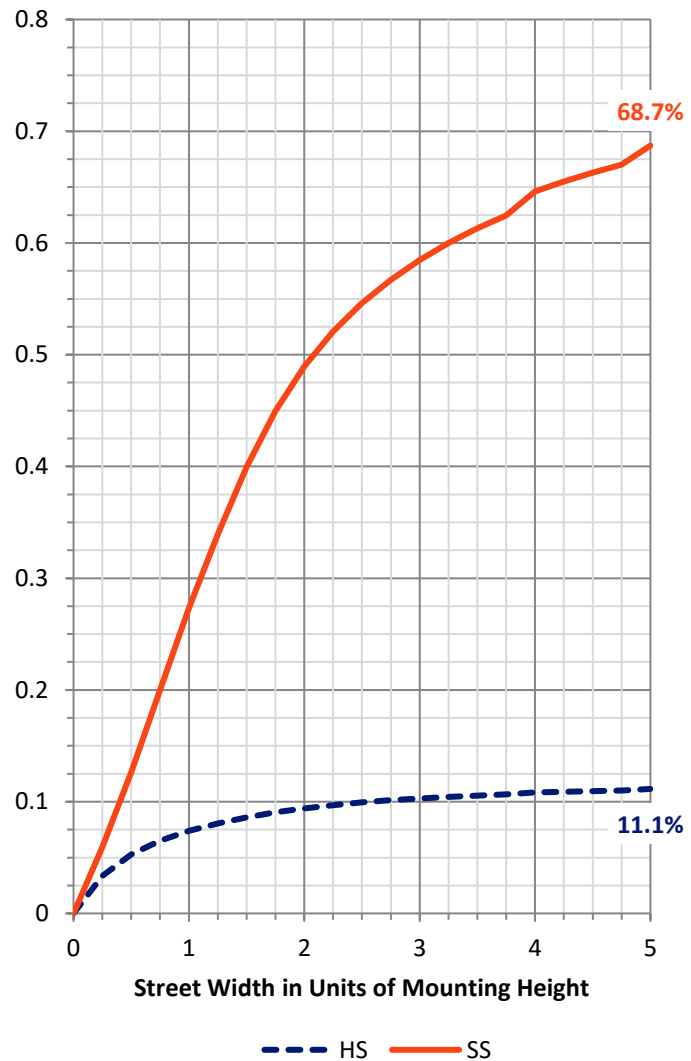
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	681.1	135.8	816.9
	% Fixture	11.7	2.3	14.1
<b>Street Side</b>	Lumens	4434.9	554.2	4989.1
	% Fixture	76.4	9.5	85.9
<b>Total</b>	Lumens	5116.0	690.0	5806.0
	% Fixture	88.1	11.9	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.1	0.1
10°-20°	27.9	0.5
20°-30°	83.0	1.4
30°-40°	166.8	2.9
40°-50°	293.6	5.1
50°-60°	810.6	14.0
60°-70°	1401.5	24.1
70°-80°	1300.9	22.4
80°-90°	1025.8	17.7
90°-100°	325.5	5.6
100°-110°	116.1	2.0
110°-120°	95.4	1.6
120°-130°	62.7	1.1
130°-140°	44.7	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°	5116.0	88.1
0°-180°	5806.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P588620

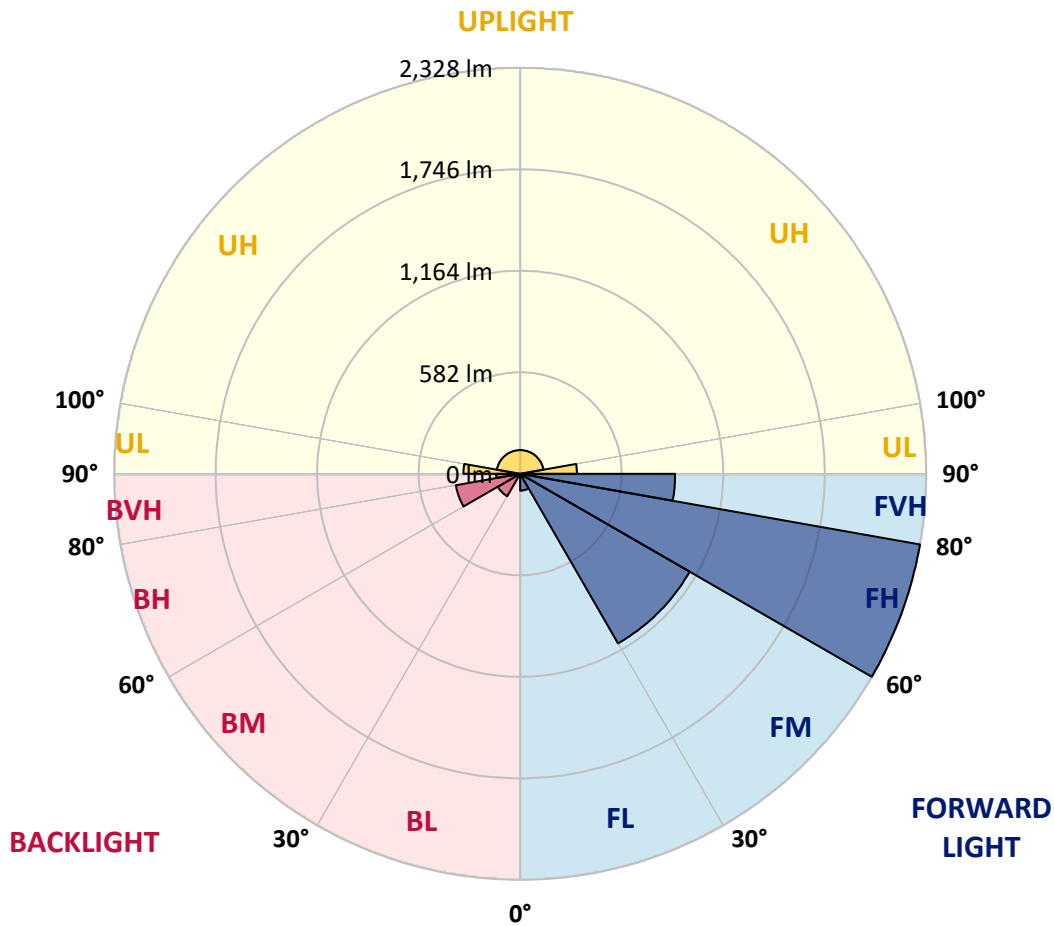
CATALOG NUMBER: ARC-CA6-80-750-U-33-X-5-X-GHSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	96.4	1.7			
FM (30°-60°)	1122.7	19.3			
FH (60°-80°)	2327.7	40.1			G2/5000
FVH (80°-90°)	888.2	15.3			G5
BL (0°-30°)	20.6	0.4	B0/110		
BM (30°-60°)	148.3	2.6	B0/220		
BH (60°-80°)	374.6	6.5	B1/500		G1/500
BVH (80°-90°)	137.5	2.4			G2/225
UL (90°-100°)	325.5	5.6		U3/500	
UH (100°-180°)	135.8	2.3		U3/500	

**BUG Rating: B1-U3-G5**

Type III Short





REPORT NUMBER: P588620  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
2.5°	68.8	67.0	67.9	67.9	68.8	65.2	61.7	59.0	56.3	52.7	48.2
5°	98.3	96.5	93.8	92.9	91.1	87.6	82.2	80.4	75.1	67.9	59.0
7.5°	119.7	118.8	117.9	115.3	113.5	108.1	101.9	99.2	92.9	83.1	72.4
10°	135.8	135.8	136.7	132.2	124.2	119.7	114.4	112.6	108.1	94.7	81.3
12.5°	149.2	147.4	140.3	136.7	133.1	134.0	134.9	134.0	132.2	109.9	91.1
15°	161.7	159.9	154.6	150.1	147.4	156.4	176.0	174.2	173.3	138.5	106.3
17.5°	170.7	170.7	176.0	179.6	184.1	170.7	167.1	172.4	178.7	152.8	120.6
20°	196.6	193.0	188.5	185.0	207.3	197.5	201.0	207.3	211.8	170.7	132.2
22.5°	185.0	185.9	205.5	212.7	201.9	196.6	209.1	211.8	212.7	195.7	137.6
25°	252.9	241.2	234.1	256.4	254.7	294.0	305.6	313.6	313.6	265.4	192.1
27.5°	349.4	349.4	379.7	438.7	428.9	429.8	416.4	415.5	432.5	448.5	292.2
30°	378.9	388.7	473.6	503.0	535.2	495.0	451.2	417.3	424.4	511.1	340.4
32.5°	387.8	396.7	499.5	467.3	478.9	462.8	469.1	400.3	383.3	470.9	331.5
35°	338.6	351.2	435.1	394.0	371.7	420.0	478.0	428.9	420.8	386.9	300.2
37.5°	452.1	458.4	487.9	481.6	488.8	491.4	561.1	516.5	525.4	467.3	379.7
40°	519.1	512.0	627.2	654.9	644.2	634.4	628.1	559.3	570.1	541.5	513.8
42.5°	638.0	629.9	711.2	728.2	730.9	705.0	734.5	647.8	621.0	562.0	639.8
45°	646.0	650.5	727.3	683.5	729.1	776.5	830.1	730.0	681.8	582.6	743.4
47.5°	571.8	591.5	760.4	722.0	677.3	635.3	655.8	604.9	565.6	461.1	714.8
50°	583.5	591.5	699.6	654.1	544.2	673.7	854.2	817.6	774.7	571.8	688.9
52.5°	825.6	822.0	869.4	872.1	899.8	1011.5	1368.0	1338.5	1345.6	1113.3	1025.8
55°	1132.1	1130.3	1250.0	1441.2	1599.4	1653.9	2119.4	2003.3	1950.5	1725.4	1811.2
57.5°	1463.6	1478.8	1531.5	1799.5	2070.3	2140.9	2870.0	2810.1	2693.9	2250.8	2479.5
60°	1812.9	1804.0	1726.3	1902.3	2335.6	2687.7	3781.4	3809.9	3578.5	2833.3	2706.5
62.5°	1950.5	1938.9	1784.3	1994.3	2499.2	2778.8	3790.3	3872.5	3784.0	3085.3	2649.3
65°	1927.3	1900.5	1695.0	1860.3	2109.6	2364.2	3383.7	3111.2	3256.0	3155.0	2504.5
67.5°	1836.2	1829.9	1638.7	1729.8	1892.5	1925.5	3090.7	2815.5	2867.3	3217.5	2547.4
70°	1721.8	1720.0	1575.3	1644.1	1875.5	1841.5	2861.0	2565.3	2534.9	2879.8	2558.1
72.5°	1725.4	1723.6	1563.7	1586.9	1835.3	1779.9	2836.9	2601.0	2545.6	2713.6	2434.8
75°	1754.9	1756.6	1586.9	1612.8	1891.6	1792.4	2894.1	2680.5	2624.3	2697.5	2336.5
77.5°	1726.3	1740.6	1573.5	1631.6	1927.3	1790.6	2867.3	2665.4	2585.8	2565.3	2148.9
80°	1630.7	1650.3	1500.2	1567.2	1895.1	1814.7	2845.0	2642.1	2541.2	2428.6	2014.0
82.5°	1430.5	1451.1	1335.8	1397.5	1762.9	1715.5	2688.6	2492.0	2401.8	2205.2	1838.0
85°	1229.5	1276.8	1220.5	1229.5	1556.5	1570.8	2477.7	2304.4	2241.8	2070.3	1778.1
87.5°	1015.0	1056.1	1003.4	940.0	1166.0	1248.2	2048.8	1963.1	1946.1	1827.2	1543.1
90°	751.4	789.0	757.7	674.6	789.9	841.7	1510.0	1462.7	1499.3	1363.5	1060.6
92.5°	545.0	551.3	514.7	445.9	526.3	551.3	990.0	917.6	960.5	835.4	621.9
95°	364.6	379.7	351.2	321.7	381.5	384.2	610.3	556.7	533.4	479.8	371.7
97.5°	267.2	268.1	257.3	230.5	268.1	271.6	405.7	365.4	344.9	322.6	257.3
100°	211.8	211.8	195.7	178.7	186.7	193.9	282.4	254.7	243.9	234.1	193.9
102.5°	185.0	184.1	170.7	153.7	152.8	156.4	213.5	194.8	186.7	180.5	152.8
105°	175.1	174.2	160.8	143.0	138.5	135.8	177.8	165.3	159.9	154.6	137.6
107.5°	173.3	171.6	158.2	142.1	134.9	127.8	159.9	149.2	150.1	144.7	132.2
110°	175.1	175.1	163.5	153.7	142.1	132.2	160.8	149.2	152.8	151.0	137.6



REPORT NUMBER: P588620

CATALOG NUMBER: ARC-CA6-80-750-U-33-X-5-X-GHSS

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	170.7	175.1	170.7	164.4	151.9	143.9	168.0	154.6	159.0	159.0	142.1
115°	160.8	165.3	165.3	159.0	147.4	144.7	166.2	154.6	156.4	153.7	132.2
117.5°	147.4	150.1	148.3	141.2	131.3	129.6	154.6	149.2	149.2	141.2	123.3
120°	137.6	132.2	125.1	119.7	114.4	118.8	139.4	134.0	129.6	126.0	112.6
122.5°	123.3	117.1	109.0	106.3	102.8	109.0	126.9	122.4	117.9	116.2	106.3
125°	101.9	101.9	98.3	96.5	95.6	104.5	125.1	120.6	114.4	110.8	99.2
127.5°	98.3	98.3	95.6	93.8	94.7	105.4	122.4	117.9	110.8	106.3	95.6
130°	99.2	97.4	93.8	91.1	92.0	104.5	121.5	116.2	109.0	105.4	95.6
132.5°	93.8	92.0	89.4	87.6	86.7	99.2	115.3	112.6	107.2	99.2	88.5
135°	91.1	89.4	87.6	86.7	86.7	96.5	109.9	107.2	101.9	92.9	81.3
137.5°	90.2	88.5	84.9	84.0	83.1	92.0	102.8	101.0	95.6	87.6	77.7
140°	85.8	83.1	80.4	79.5	79.5	86.7	97.4	95.6	90.2	84.0	75.1
142.5°	79.5	77.7	75.1	75.1	75.9	83.1	94.7	93.8	87.6	80.4	72.4
145°	75.9	74.2	72.4	73.3	74.2	80.4	89.4	88.5	84.0	77.7	69.7
147.5°	69.7	68.8	67.0	66.1	67.9	73.3	83.1	83.1	80.4	72.4	64.3
150°	60.8	59.9	58.1	57.2	59.0	64.3	72.4	72.4	69.7	61.7	54.5
152.5°	50.9	50.0	50.0	50.9	52.7	55.4	62.5	63.4	60.8	52.7	46.5
155°	44.7	43.8	43.8	44.7	47.4	50.0	54.5	54.5	51.8	46.5	40.2
157.5°	38.4	37.5	37.5	38.4	41.1	42.9	47.4	46.5	44.7	40.2	34.8
160°	29.5	28.6	28.6	29.5	32.2	34.0	37.5	37.5	36.6	34.0	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	17.9	18.8	19.7	19.7	19.7	18.8	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



REPORT NUMBER: P588620

CATALOG NUMBER: ARC-CA6-80-750-U-33-X-5-X-GHSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
2.5°	46.5	45.6	42.0	36.6	31.3	25.9	25.0	25.9	26.8	27.7	28.6
5°	55.4	51.8	44.7	36.6	29.5	22.3	18.8	17.0	16.1	17.0	17.9
7.5°	67.0	62.5	53.6	43.8	34.8	27.7	23.2	18.8	16.1	16.1	17.0
10°	75.1	69.7	59.0	48.2	39.3	31.3	25.9	21.4	18.8	17.0	17.0
12.5°	84.0	76.8	62.5	50.9	41.1	34.0	28.6	24.1	21.4	19.7	19.7
15°	93.8	85.8	68.8	53.6	43.8	35.7	31.3	26.8	23.2	21.4	21.4
17.5°	109.9	96.5	72.4	56.3	45.6	37.5	32.2	27.7	24.1	22.3	22.3
20°	117.1	101.9	73.3	59.0	48.2	39.3	33.1	27.7	25.0	23.2	23.2
22.5°	117.1	101.0	75.1	60.8	50.9	41.1	34.0	28.6	25.0	23.2	23.2
25°	147.4	110.8	76.8	65.2	53.6	42.9	35.7	29.5	25.9	24.1	24.1
27.5°	206.4	144.7	88.5	69.7	57.2	45.6	37.5	31.3	26.8	25.0	25.0
30°	227.0	161.7	101.0	81.3	62.5	48.2	39.3	33.1	28.6	25.9	25.9
32.5°	231.4	159.0	108.1	89.4	71.5	52.7	41.1	34.8	29.5	26.8	26.8
35°	209.1	147.4	108.1	92.9	76.8	59.0	45.6	36.6	30.4	27.7	26.8
37.5°	243.9	159.0	110.8	93.8	79.5	63.4	50.9	39.3	32.2	28.6	28.6
40°	315.4	188.5	124.2	99.2	80.4	66.1	56.3	43.8	34.8	30.4	30.4
42.5°	369.0	212.7	138.5	112.6	87.6	69.7	58.1	47.4	38.4	33.1	32.2
45°	414.6	235.9	151.0	125.1	100.1	77.7	61.7	50.9	42.0	36.6	35.7
47.5°	422.6	247.5	160.8	137.6	109.9	85.8	67.0	54.5	46.5	40.2	39.3
50°	408.3	248.4	164.4	145.6	120.6	94.7	73.3	59.0	50.0	43.8	43.8
52.5°	583.5	310.0	180.5	150.1	124.2	101.9	81.3	64.3	53.6	48.2	48.2
55°	1052.6	501.3	233.2	177.8	133.1	107.2	88.5	72.4	59.0	52.7	52.7
57.5°	1701.3	782.7	308.3	237.7	171.6	124.2	96.5	80.4	66.1	57.2	57.2
60°	2254.3	1104.4	375.3	289.5	225.2	170.7	117.1	91.1	74.2	63.4	62.5
62.5°	2595.7	1393.9	414.6	309.2	257.3	216.2	157.3	114.4	84.0	72.4	70.6
65°	2519.7	1538.6	431.6	307.4	255.5	230.5	187.6	142.1	101.0	83.1	80.4
67.5°	2314.2	1539.5	428.9	294.0	242.1	218.9	186.7	153.7	117.1	93.8	90.2
70°	2211.4	1512.7	415.5	284.1	231.4	204.6	173.3	141.2	115.3	100.1	98.3
72.5°	2162.3	1494.8	407.4	282.4	229.6	199.3	164.4	126.0	103.6	95.6	97.4
75°	2173.9	1505.6	411.0	285.0	233.2	201.9	160.8	117.1	91.1	82.2	84.0
77.5°	2148.0	1484.1	416.4	284.1	231.4	197.5	150.1	107.2	83.1	74.2	73.3
80°	2169.5	1437.7	403.9	275.2	218.0	179.6	133.1	95.6	75.9	69.7	68.8
82.5°	2005.0	1251.8	359.2	251.1	197.5	154.6	111.7	84.0	71.5	64.3	64.3
85°	1838.0	1015.0	308.3	220.7	162.6	121.5	89.4	73.3	62.5	57.2	57.2
87.5°	1394.8	727.3	238.6	181.4	135.8	104.5	81.3	70.6	61.7	58.1	57.2
90°	862.2	448.5	177.8	144.7	115.3	92.9	76.8	67.9	60.8	58.1	58.1
92.5°	482.5	286.8	137.6	118.8	99.2	83.1	70.6	61.7	55.4	52.7	52.7
95°	327.0	214.4	117.9	106.3	88.5	73.3	61.7	53.6	48.2	44.7	44.7
97.5°	236.8	168.9	104.5	95.6	79.5	64.3	54.5	46.5	42.0	40.2	40.2
100°	181.4	136.7	94.7	85.8	70.6	56.3	47.4	40.2	35.7	34.0	34.0
102.5°	145.6	115.3	85.8	77.7	62.5	50.0	40.2	33.1	29.5	28.6	27.7
105°	131.3	107.2	80.4	72.4	57.2	45.6	35.7	29.5	25.9	24.1	24.1
107.5°	127.8	107.2	79.5	70.6	54.5	42.9	32.2	26.8	23.2	21.4	21.4
110°	135.8	113.5	80.4	68.8	50.9	39.3	29.5	24.1	20.6	19.7	19.7



REPORT NUMBER: P588620

CATALOG NUMBER: ARC-CA6-80-750-U-33-X-5-X-GHSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	140.3	114.4	76.8	64.3	47.4	35.7	27.7	22.3	19.7	17.9	17.9
115°	128.7	102.8	70.6	57.2	42.0	32.2	25.9	21.4	17.9	16.1	16.1
117.5°	124.2	96.5	68.8	50.0	38.4	29.5	24.1	19.7	17.0	15.2	15.2
120°	124.2	93.8	60.8	43.8	34.8	26.8	22.3	17.9	15.2	14.3	14.3
122.5°	119.7	86.7	53.6	38.4	30.4	23.2	19.7	16.1	14.3	12.5	12.5
125°	109.0	80.4	43.8	34.8	27.7	21.4	17.9	15.2	12.5	11.6	11.6
127.5°	102.8	79.5	41.1	32.2	25.0	19.7	16.1	13.4	10.7	9.8	9.8
130°	101.9	79.5	38.4	28.6	22.3	17.0	14.3	11.6	9.8	8.9	8.9
132.5°	91.1	72.4	36.6	26.8	20.6	16.1	13.4	10.7	8.9	8.0	8.0
135°	82.2	67.0	35.7	25.0	18.8	14.3	11.6	9.8	7.1	7.1	7.1
137.5°	75.9	61.7	35.7	23.2	17.0	12.5	10.7	8.9	6.3	6.3	6.3
140°	71.5	57.2	34.8	22.3	15.2	11.6	9.8	7.1	5.4	5.4	5.4
142.5°	67.0	53.6	32.2	21.4	14.3	9.8	8.9	7.1	5.4	4.5	4.5
145°	61.7	49.1	28.6	19.7	13.4	8.9	8.0	6.3	4.5	3.6	3.6
147.5°	56.3	43.8	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	6.3	4.5	3.6	2.7	2.7
152.5°	39.3	32.2	19.7	13.4	9.8	6.3	5.4	3.6	2.7	1.8	1.8
155°	34.8	28.6	17.9	11.6	8.0	5.4	4.5	2.7	2.7	1.8	1.8
157.5°	30.4	25.0	16.1	9.8	6.3	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°	19.7	16.1	9.8	6.3	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)