

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: P588533

Luminaire Tested: **ARC-CA6-80-750-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-16)
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-55-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR
Light Source: (6) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8122 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U3 - G3

Input Watts (W): 84.4
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

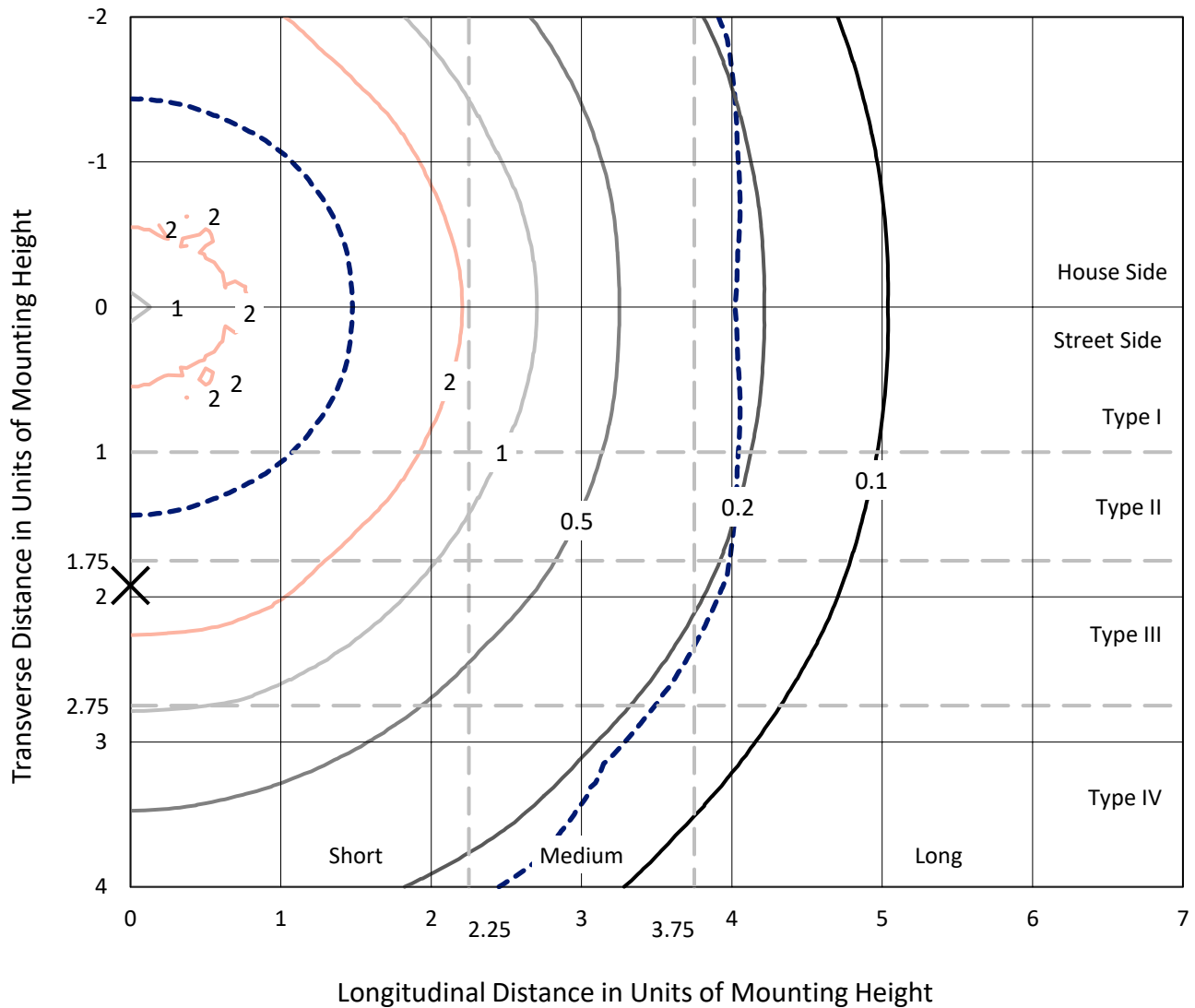


REPORT NUMBER: P588533

CATALOG NUMBER: ARC-CA6-80-750-U-55-6-5-X

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

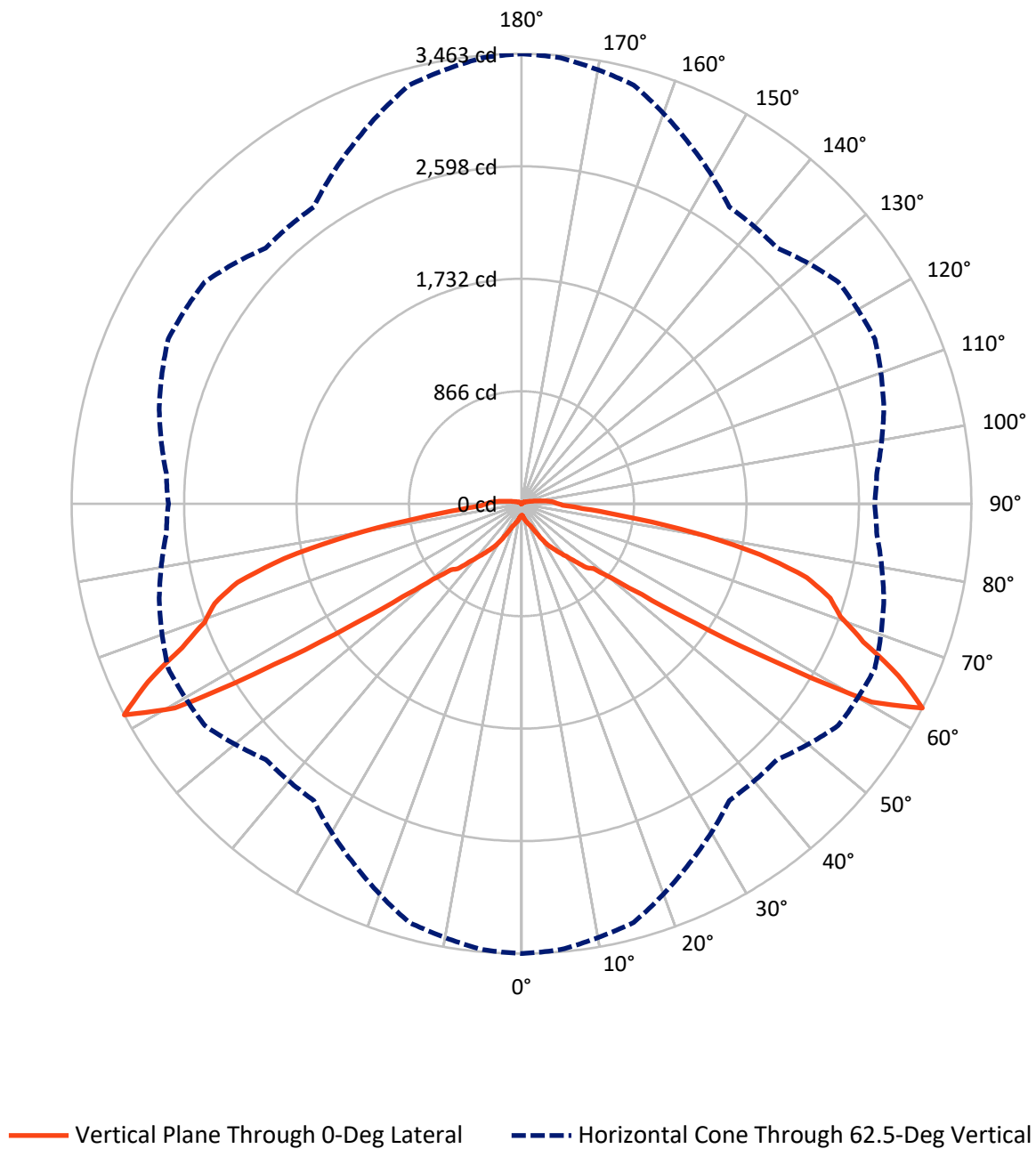


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
Type V - Short - Semi-Cutoff

REPORT NUMBER: P588533

CATALOG NUMBER: ARC-CA6-80-750-U-55-6-5-X

Luminous Intensity Polar Plot



REPORT NUMBER: P588533

CATALOG NUMBER: ARC-CA6-80-750-U-55-6-5-X

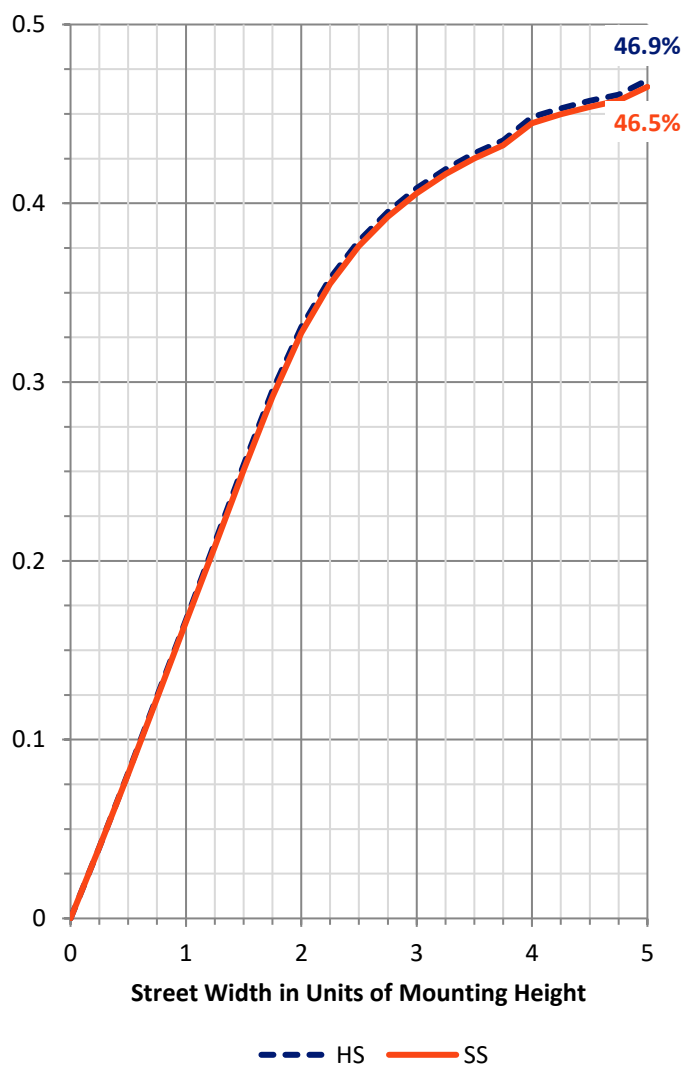
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3904.9	156.1	4061.0
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	3904.9	156.1	4061.0
	% Fixture	48.1	1.9	50.0
Total	Lumens	7809.9	312.1	8122.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.7	0.1
10°-20°	40.9	0.5
20°-30°	108.0	1.3
30°-40°	245.7	3.0
40°-50°	496.9	6.1
50°-60°	1471.0	18.1
60°-70°	2763.5	34.0
70°-80°	2054.1	25.3
80°-90°	620.1	7.6
90°-100°	201.2	2.5
100°-110°	70.5	0.9
110°-120°	27.3	0.3
120°-130°	10.8	0.1
130°-140°	2.2	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.1	0.0
0°-90°	7809.9	96.2
0°-180°	8122.0	100.0

Coefficient of Utilization



REPORT NUMBER: P588533

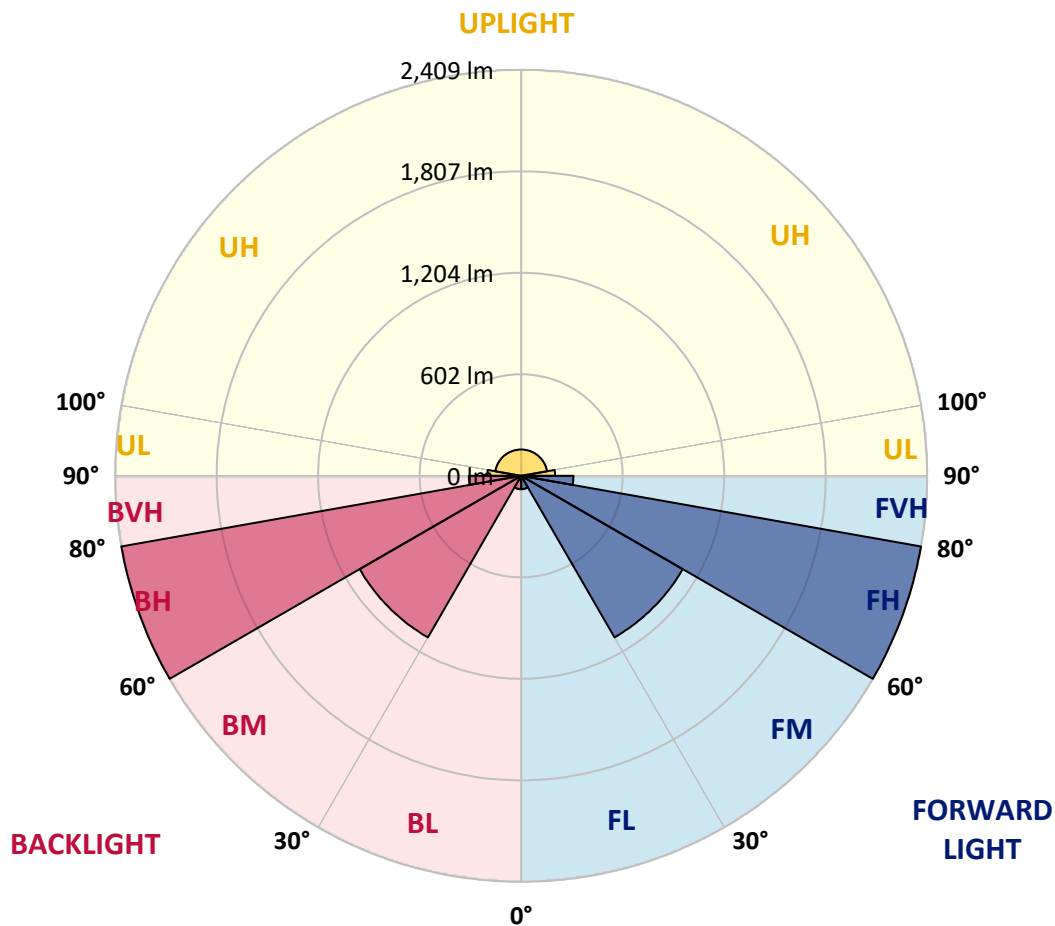
CATALOG NUMBER: ARC-CA6-80-750-U-55-6-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	79.3	1.0			
FM	(30°-60°)	1106.8	13.6			
FH	(60°-80°)	2408.8	29.7			G2/5000
FVH	(80°-90°)	310.1	3.8			G3/500
BL	(0°-30°)	79.3	1.0	B0/110		
BM	(30°-60°)	1106.8	13.6	B2/2500		
BH	(60°-80°)	2408.8	29.7	B3/2500		G2/5000
BVH	(80°-90°)	310.1	3.8			G3/500
UL	(90°-100°)	201.2	2.5		U3/500	
UH	(100°-180°)	156.1	1.9		U3/500	

BUG Rating: B3-U3-G3

Type V Short



REPORT NUMBER: P588533

CATALOG NUMBER: ARC-CA6-80-750-U-55-6-5-X

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
2.5°	90.9	90.9	90.9	89.3	87.8	87.8	87.8	87.8	86.2	86.2	86.2
5°	95.5	95.5	93.9	92.4	92.4	90.9	92.4	90.9	90.9	90.9	92.4
7.5°	106.3	106.3	104.7	104.7	104.7	103.2	103.2	103.2	103.2	101.6	103.2
10°	118.6	118.6	118.6	118.6	118.6	117.0	117.0	115.5	115.5	115.5	115.5
12.5°	132.4	130.9	130.9	132.4	130.9	129.4	129.4	129.4	127.8	127.8	127.8
15°	144.8	144.8	143.2	143.2	143.2	141.7	141.7	140.1	140.1	138.6	138.6
17.5°	157.1	157.1	155.5	154.0	154.0	154.0	152.5	152.5	150.9	150.9	150.9
20°	172.5	170.9	169.4	167.9	166.3	166.3	166.3	166.3	164.8	163.2	163.2
22.5°	189.4	187.9	186.3	184.8	184.8	183.3	183.3	181.7	181.7	180.2	178.6
25°	224.8	224.8	218.7	217.1	217.1	218.7	217.1	215.6	212.5	207.9	207.9
27.5°	272.6	274.1	275.7	283.4	281.8	271.0	264.9	261.8	260.3	260.3	261.8
30°	326.5	328.0	332.6	340.3	335.7	321.9	306.5	300.3	304.9	311.1	312.6
32.5°	383.5	383.5	374.2	363.4	352.7	343.4	338.8	335.7	334.2	329.6	329.6
35°	428.1	420.4	391.2	355.7	345.0	351.1	369.6	375.8	352.7	331.1	328.0
37.5°	478.9	477.4	454.3	428.1	408.1	405.0	425.0	431.2	406.6	392.7	391.2
40°	532.8	535.9	540.5	529.7	498.9	489.7	478.9	471.2	471.2	472.8	469.7
42.5°	605.2	609.8	609.8	611.4	586.7	565.2	543.6	531.3	529.7	542.1	546.7
45°	702.2	702.2	691.4	669.9	659.1	643.7	629.8	617.5	611.4	612.9	617.5
47.5°	745.3	748.4	739.2	708.4	700.7	685.3	665.3	660.6	663.7	668.3	669.9
50°	896.3	888.6	825.4	760.7	737.6	753.0	782.3	790.0	760.7	731.5	723.8
52.5°	1161.1	1159.6	1110.3	1062.6	1030.2	1021.0	1061.0	1064.1	1013.3	991.7	988.7
55°	1620.0	1603.1	1640.1	1663.2	1595.4	1519.9	1492.2	1453.7	1456.8	1499.9	1501.5
57.5°	2271.5	2280.7	2322.3	2262.2	2159.0	2103.6	2065.1	1992.7	1994.3	2032.8	2035.8
60°	3098.4	3096.9	2964.4	2733.4	2574.8	2585.6	2691.9	2707.3	2542.5	2436.2	2423.9
62.5°	3463.4	3446.4	3337.1	3056.8	2788.9	2784.3	2976.8	3001.4	2887.4	2745.8	2718.0
65°	3187.7	3173.9	3220.1	3124.6	2771.9	2681.1	2739.6	2733.4	2805.8	2870.5	2878.2
67.5°	2838.2	2841.2	2952.1	2922.9	2678.0	2524.0	2450.1	2440.8	2576.4	2727.3	2747.3
70°	2604.1	2604.1	2682.6	2564.0	2447.0	2346.9	2269.9	2222.2	2310.0	2334.6	2333.1
72.5°	2484.0	2473.2	2417.7	2303.8	2214.5	2126.7	2149.8	2114.4	2072.8	2008.1	2002.0
75°	2269.9	2257.6	2180.6	2126.7	2062.0	1952.7	1972.7	1937.3	1868.0	1809.5	1800.2
77.5°	1875.7	1875.7	1826.4	1786.4	1767.9	1673.9	1664.7	1647.8	1578.5	1546.1	1533.8
80°	1342.9	1339.8	1319.8	1305.9	1329.0	1273.6	1248.9	1248.9	1221.2	1191.9	1178.1
82.5°	799.2	788.5	788.5	793.1	779.2	743.8	750.0	785.4	782.3	765.4	753.0
85°	472.8	466.6	462.0	455.8	443.5	418.9	418.9	422.0	425.0	426.6	420.4
87.5°	315.7	314.2	314.2	314.2	300.3	283.4	291.1	295.7	292.6	291.1	289.5
90°	275.7	277.2	275.7	269.5	257.2	241.8	244.9	251.0	247.9	247.9	246.4
92.5°	247.9	247.9	244.9	238.7	226.4	212.5	214.1	217.1	215.6	214.1	212.5
95°	203.3	203.3	200.2	195.6	184.8	172.5	174.0	177.1	174.0	174.0	172.5
97.5°	158.6	158.6	157.1	154.0	144.8	135.5	137.1	138.6	137.1	137.1	135.5
100°	120.1	120.1	118.6	114.0	109.3	101.6	103.2	106.3	104.7	104.7	103.2
102.5°	89.3	89.3	87.8	86.2	80.1	75.5	77.0	77.0	77.0	75.5	75.5
105°	69.3	69.3	69.3	66.2	63.1	58.5	58.5	58.5	58.5	57.0	57.0
107.5°	55.4	53.9	53.9	52.4	49.3	46.2	46.2	46.2	46.2	46.2	46.2
110°	44.7	43.1	41.6	41.6	38.5	37.0	35.4	37.0	37.0	37.0	37.0

REPORT NUMBER: P588533

CATALOG NUMBER: ARC-CA6-80-750-U-55-6-5-X

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	38.5	37.0	33.9	33.9	32.3	29.3	29.3	29.3	32.3	30.8	30.8
115°	33.9	32.3	27.7	27.7	26.2	24.6	24.6	24.6	27.7	24.6	24.6
117.5°	29.3	27.7	23.1	23.1	21.6	20.0	20.0	20.0	23.1	20.0	20.0
120°	21.6	21.6	18.5	18.5	18.5	16.9	16.9	16.9	18.5	16.9	16.9
122.5°	16.9	16.9	15.4	15.4	15.4	13.9	13.9	13.9	13.9	12.3	12.3
125°	16.9	20.0	12.3	12.3	10.8	10.8	10.8	9.2	10.8	9.2	9.2
127.5°	18.5	16.9	9.2	9.2	9.2	7.7	7.7	7.7	7.7	7.7	7.7
130°	6.2	9.2	6.2	6.2	6.2	6.2	6.2	6.2	4.6	4.6	4.6
132.5°	4.6	4.6	4.6	4.6	4.6	4.6	3.1	3.1	3.1	3.1	3.1
135°	3.1	3.1	3.1	3.1	3.1	3.1	1.5	1.5	1.5	1.5	1.5
137.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5
170°	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5
172.5°	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
175°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
177.5°	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

(END OF REPORT)