

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: P588461

Luminaire Tested: **ARC-CA6-50-750-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588461
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-CA6-50-750-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: 5371 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U3 - G2

Input Watts (W): 54
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



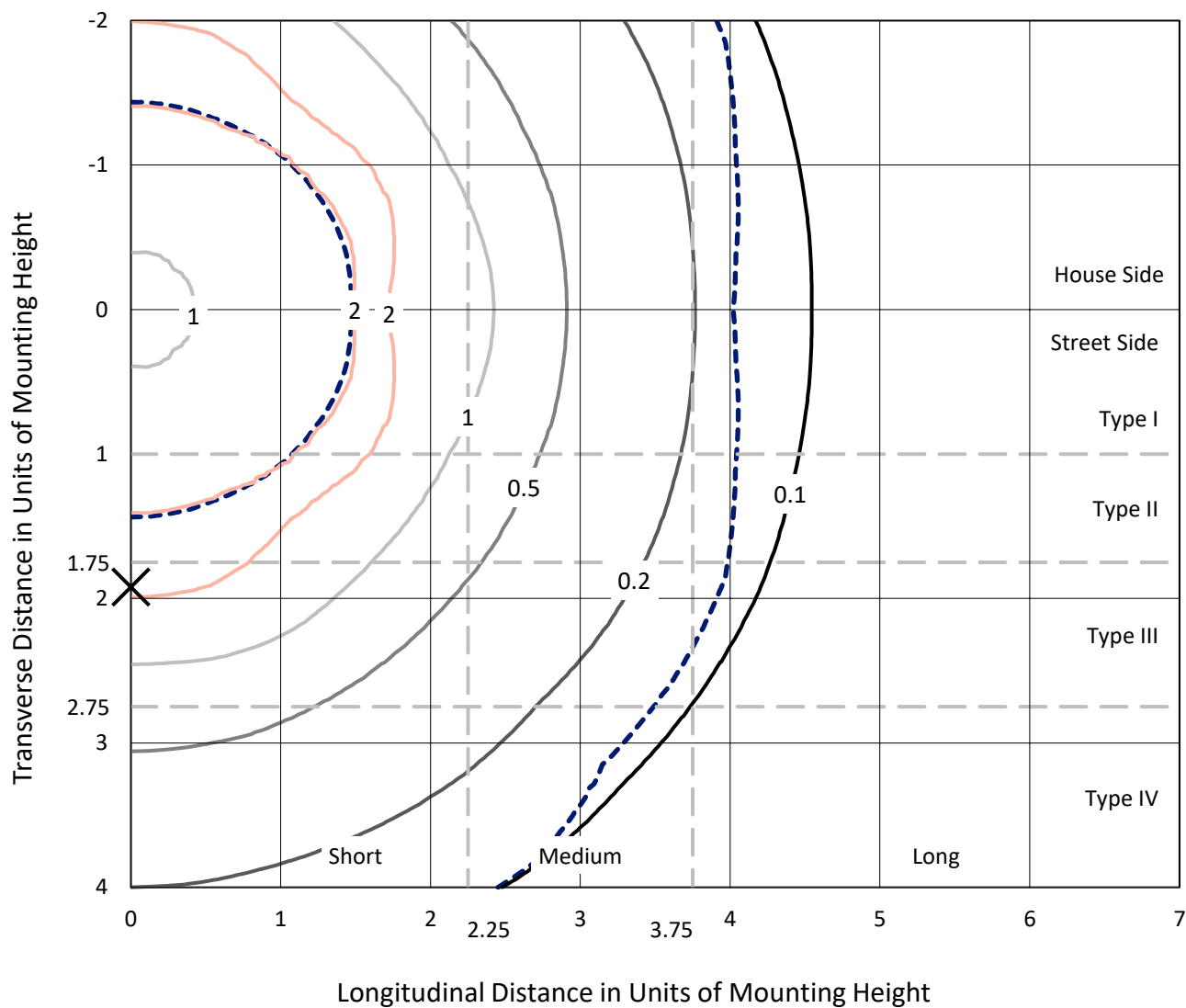
REPORT NUMBER: P588461

CATALOG NUMBER: ARC-CA6-50-750-U-55-6-5-X

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

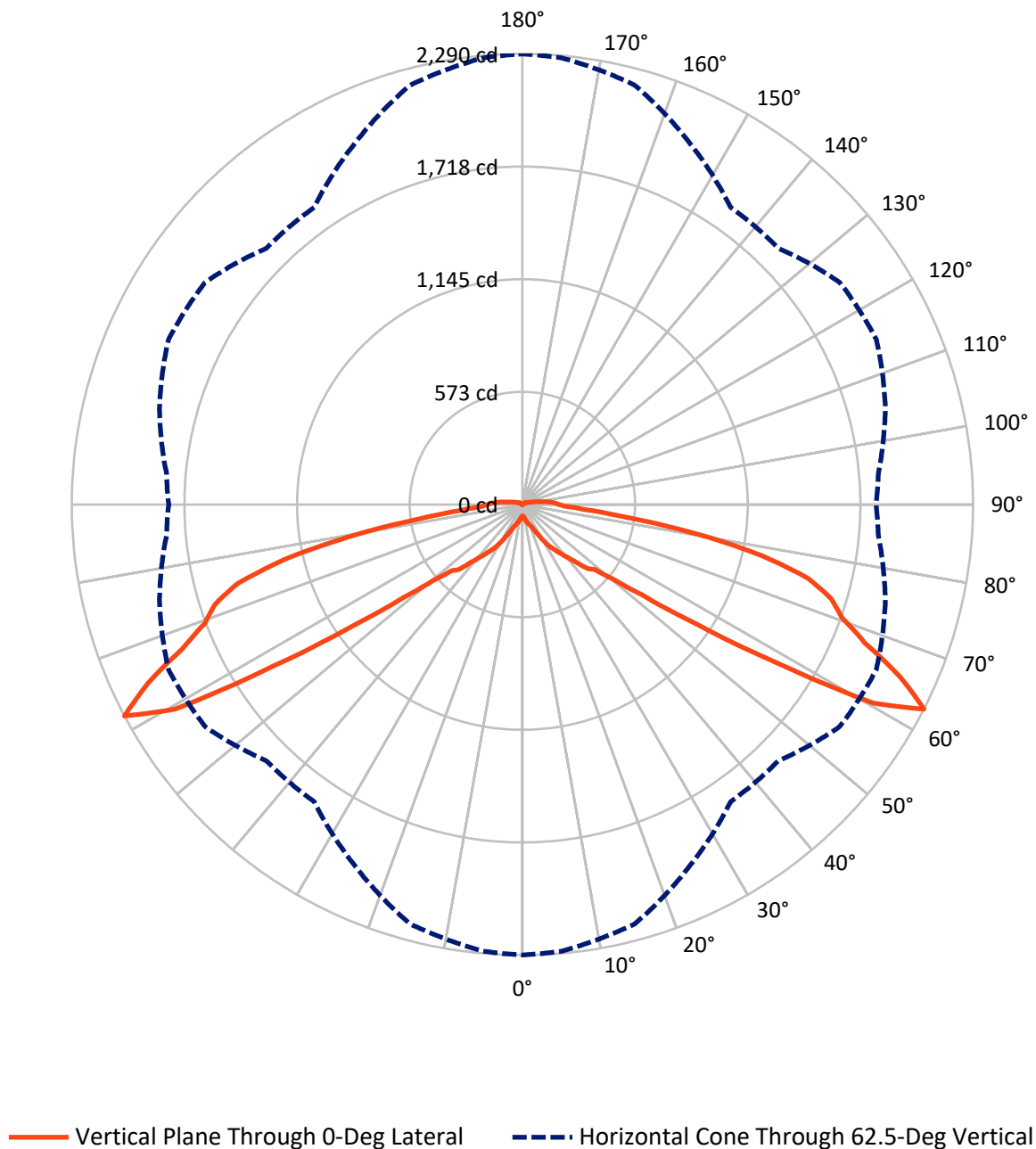


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P588461

CATALOG NUMBER: ARC-CA6-50-750-U-55-6-5-X

Luminous Intensity Polar Plot



REPORT NUMBER: P588461

CATALOG NUMBER: ARC-CA6-50-750-U-55-6-5-X

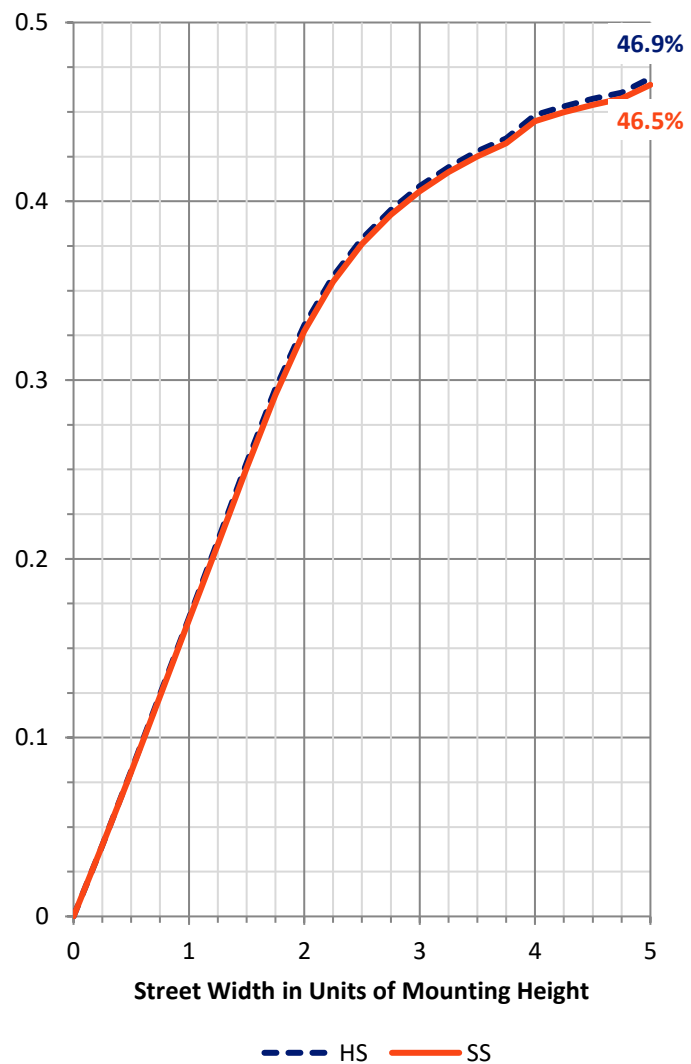
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2582.3	103.2	2685.5
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	2582.3	103.2	2685.5
	% Fixture	48.1	1.9	50.0
Total	Lumens	5164.6	206.4	5371.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	0.1
10°-20°	27.0	0.5
20°-30°	71.4	1.3
30°-40°	162.5	3.0
40°-50°	328.6	6.1
50°-60°	972.7	18.1
60°-70°	1827.5	34.0
70°-80°	1358.4	25.3
80°-90°	410.1	7.6
90°-100°	133.1	2.5
100°-110°	46.6	0.9
110°-120°	18.0	0.3
120°-130°	7.1	0.1
130°-140°	1.4	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°	5164.6	96.2
0°-180°	5371.0	100.0

Coefficient of Utilization



REPORT NUMBER: P588461

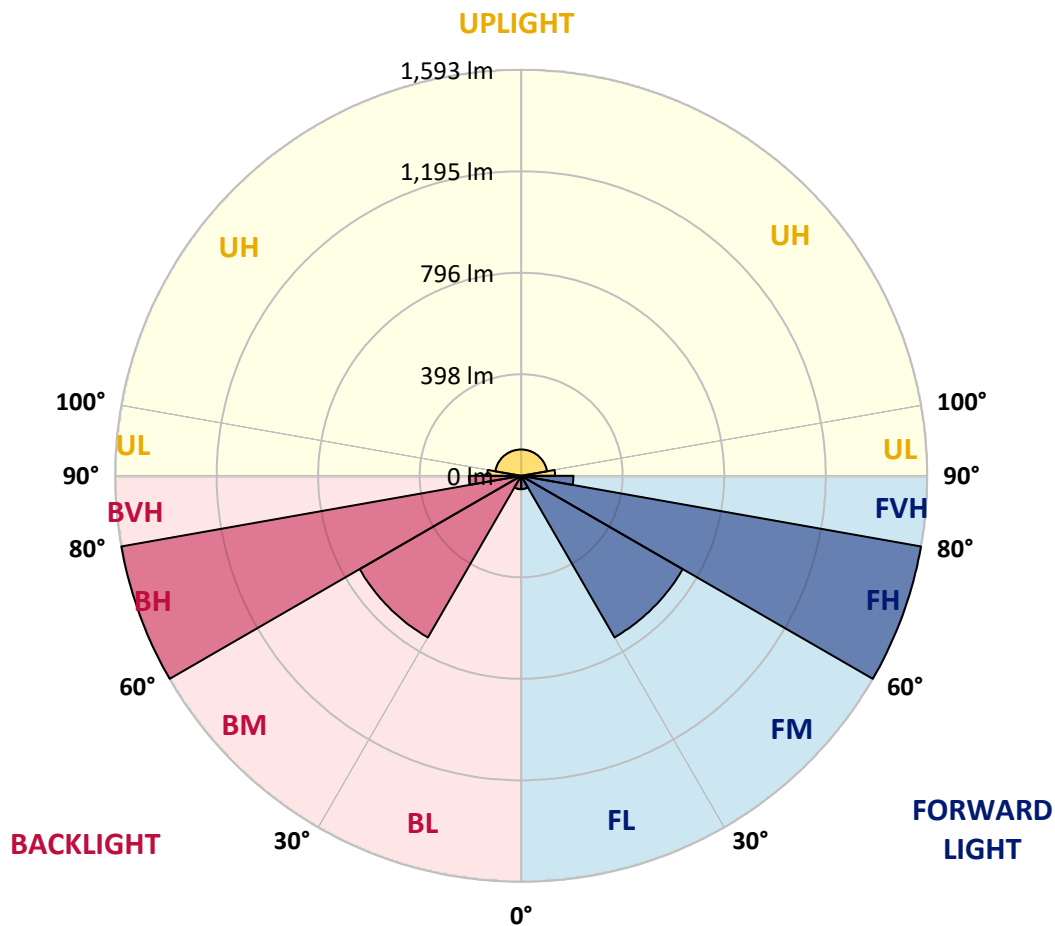
CATALOG NUMBER: ARC-CA6-50-750-U-55-6-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	52.4	1.0			
FM	(30°-60°)	731.9	13.6			
FH	(60°-80°)	1592.9	29.7			G1/1800
FVH	(80°-90°)	205.0	3.8			G2/225
BL	(0°-30°)	52.4	1.0	B0/110		
BM	(30°-60°)	731.9	13.6	B1/1000		
BH	(60°-80°)	1592.9	29.7	B3/2500		G1/1800
BVH	(80°-90°)	205.0	3.8			G2/225
UL	(90°-100°)	133.1	2.5		U3/500	
UH	(100°-180°)	103.2	1.9		U3/500	

BUG Rating: B3-U3-G2

Type V Short



REPORT NUMBER: P588461

CATALOG NUMBER: ARC-CA6-50-750-U-55-6-5-X

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
2.5°	60.1	60.1	60.1	59.1	58.0	58.0	58.0	58.0	57.0	57.0	57.0
5°	63.1	63.1	62.1	61.1	61.1	60.1	61.1	60.1	60.1	60.1	61.1
7.5°	70.3	70.3	69.2	69.2	69.2	68.2	68.2	68.2	68.2	67.2	68.2
10°	78.4	78.4	78.4	78.4	78.4	77.4	77.4	76.4	76.4	76.4	76.4
12.5°	87.6	86.6	86.6	87.6	86.6	85.5	85.5	85.5	84.5	84.5	84.5
15°	95.7	95.7	94.7	94.7	94.7	93.7	93.7	92.7	92.7	91.7	91.7
17.5°	103.9	103.9	102.9	101.8	101.8	101.8	100.8	100.8	99.8	99.8	99.8
20°	114.1	113.0	112.0	111.0	110.0	110.0	110.0	110.0	109.0	107.9	107.9
22.5°	125.3	124.2	123.2	122.2	122.2	121.2	121.2	120.2	120.2	119.1	118.1
25°	148.7	148.7	144.6	143.6	143.6	144.6	143.6	142.6	140.5	137.5	137.5
27.5°	180.3	181.3	182.3	187.4	186.4	179.2	175.2	173.1	172.1	172.1	173.1
30°	215.9	216.9	220.0	225.1	222.0	212.8	202.7	198.6	201.6	205.7	206.7
32.5°	253.6	253.6	247.5	240.3	233.2	227.1	224.0	222.0	221.0	217.9	217.9
35°	283.1	278.0	258.7	235.2	228.1	232.2	244.4	248.5	233.2	218.9	216.9
37.5°	316.7	315.7	300.4	283.1	269.9	267.8	281.1	285.1	268.8	259.7	258.7
40°	352.4	354.4	357.4	350.3	330.0	323.8	316.7	311.6	311.6	312.6	310.6
42.5°	400.2	403.3	403.3	404.3	388.0	373.7	359.5	351.3	350.3	358.5	361.5
45°	464.4	464.4	457.2	443.0	435.9	425.7	416.5	408.4	404.3	405.3	408.4
47.5°	492.9	494.9	488.8	468.4	463.4	453.2	439.9	436.9	438.9	442.0	443.0
50°	592.7	587.6	545.8	503.1	487.8	498.0	517.3	522.4	503.1	483.7	478.6
52.5°	767.8	766.8	734.2	702.7	681.3	675.2	701.7	703.7	670.1	655.8	653.8
55°	1071.3	1060.1	1084.6	1099.8	1055.0	1005.1	986.8	961.3	963.4	991.9	992.9
57.5°	1502.1	1508.2	1535.7	1496.0	1427.7	1391.1	1365.6	1317.8	1318.8	1344.2	1346.3
60°	2049.0	2047.9	1960.4	1807.6	1702.7	1709.8	1780.1	1790.3	1681.3	1611.1	1602.9
62.5°	2290.3	2279.1	2206.8	2021.5	1844.3	1841.2	1968.5	1984.8	1909.4	1815.7	1797.4
65°	2108.0	2098.9	2129.4	2066.3	1833.1	1773.0	1811.7	1807.6	1855.5	1898.2	1903.3
67.5°	1876.8	1878.9	1952.2	1932.9	1770.9	1669.1	1620.2	1614.1	1703.7	1803.5	1816.8
70°	1722.1	1722.1	1774.0	1695.6	1618.2	1552.0	1501.1	1469.5	1527.5	1543.8	1542.8
72.5°	1642.6	1635.5	1598.8	1523.5	1464.4	1406.4	1421.6	1398.2	1370.7	1327.9	1323.9
75°	1501.1	1492.9	1442.0	1406.4	1363.6	1291.3	1304.5	1281.1	1235.3	1196.6	1190.5
77.5°	1240.4	1240.4	1207.8	1181.3	1169.1	1107.0	1100.9	1089.7	1043.8	1022.4	1014.3
80°	888.0	886.0	872.7	863.6	878.8	842.2	825.9	825.9	807.6	788.2	779.0
82.5°	528.5	521.4	521.4	524.5	515.3	491.9	495.9	519.4	517.3	506.1	498.0
85°	312.6	308.6	305.5	301.4	293.3	277.0	277.0	279.0	281.1	282.1	278.0
87.5°	208.8	207.7	207.7	207.7	198.6	187.4	192.5	195.5	193.5	192.5	191.5
90°	182.3	183.3	182.3	178.2	170.1	159.9	161.9	166.0	164.0	164.0	162.9
92.5°	164.0	164.0	161.9	157.8	149.7	140.5	141.6	143.6	142.6	141.6	140.5
95°	134.4	134.4	132.4	129.3	122.2	114.1	115.1	117.1	115.1	115.1	114.1
97.5°	104.9	104.9	103.9	101.8	95.7	89.6	90.6	91.7	90.6	90.6	89.6
100°	79.4	79.4	78.4	75.4	72.3	67.2	68.2	70.3	69.2	69.2	68.2
102.5°	59.1	59.1	58.0	57.0	53.0	49.9	50.9	50.9	50.9	49.9	49.9
105°	45.8	45.8	45.8	43.8	41.8	38.7	38.7	38.7	38.7	37.7	37.7
107.5°	36.7	35.6	35.6	34.6	32.6	30.6	30.6	30.6	30.6	30.6	30.6
110°	29.5	28.5	27.5	27.5	25.5	24.4	23.4	24.4	24.4	24.4	24.4

REPORT NUMBER: P588461

CATALOG NUMBER: ARC-CA6-50-750-U-55-6-5-X

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	25.5	24.4	22.4	22.4	21.4	19.3	19.3	19.3	21.4	20.4	20.4
115°	22.4	21.4	18.3	18.3	17.3	16.3	16.3	16.3	18.3	16.3	16.3
117.5°	19.3	18.3	15.3	15.3	14.3	13.2	13.2	13.2	15.3	13.2	13.2
120°	14.3	14.3	12.2	12.2	12.2	11.2	11.2	11.2	12.2	11.2	11.2
122.5°	11.2	11.2	10.2	10.2	10.2	9.2	9.2	9.2	9.2	8.1	8.1
125°	11.2	13.2	8.1	8.1	7.1	7.1	7.1	6.1	7.1	6.1	6.1
127.5°	12.2	11.2	6.1	6.1	6.1	5.1	5.1	5.1	5.1	5.1	5.1
130°	4.1	6.1	4.1	4.1	4.1	4.1	4.1	4.1	3.1	3.1	3.1
132.5°	3.1	3.1	3.1	3.1	3.1	3.1	2.0	2.0	2.0	2.0	2.0
135°	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
137.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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	1.0	1.0	1.0	1.0	1.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0
170°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
172.5°	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
175°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
177.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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)