

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: P588551

Luminaire Tested: **ARC-CA6-90-740-U-33-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC-CA6-90-740-U-33-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8742 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U3 - G3

Input Watts (W): 93.9
Input Voltage (V): 120
Input Current (A_{in}): 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



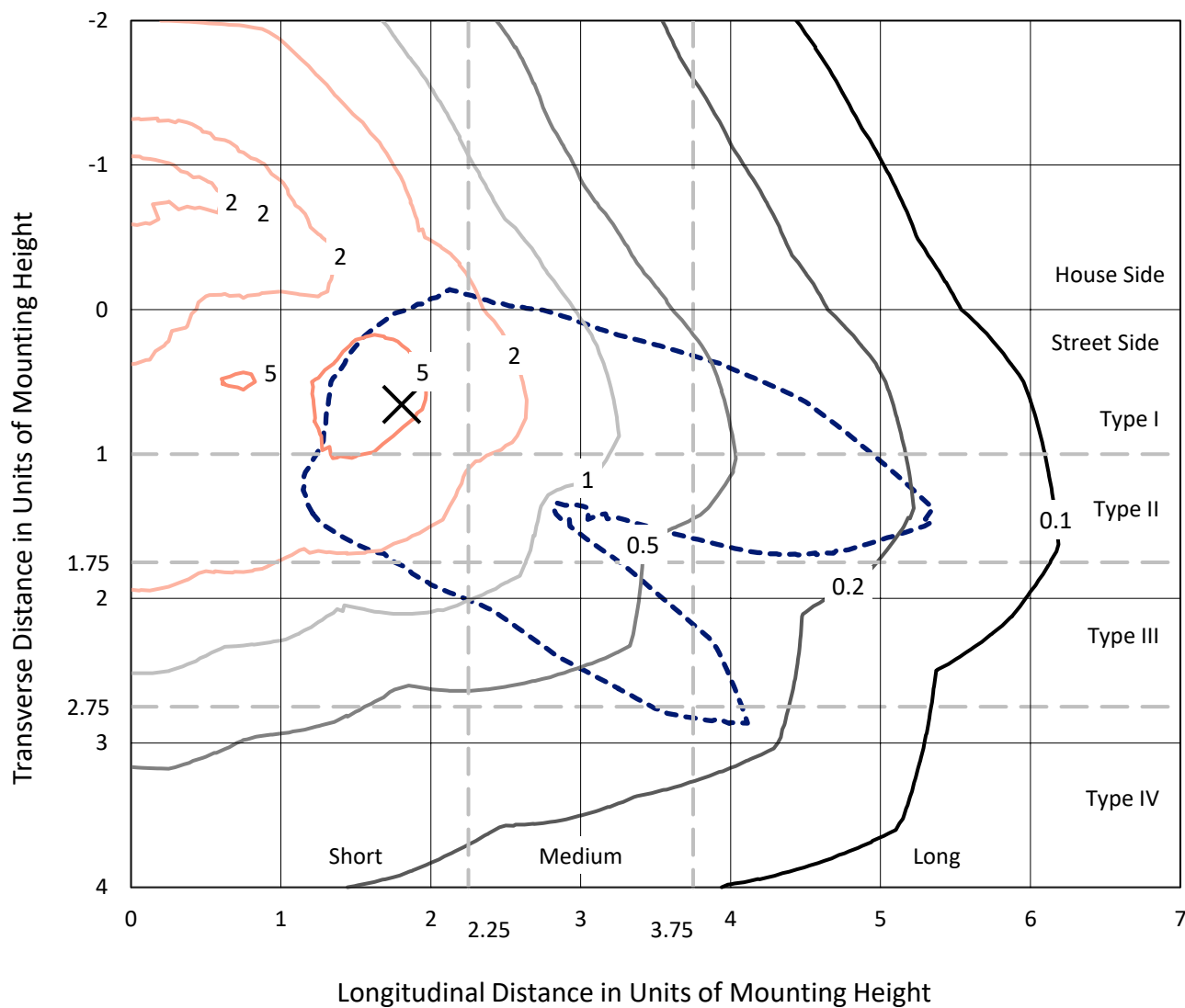
REPORT NUMBER: P588551

CATALOG NUMBER: ARC-CA6-90-740-U-33-6-5-X

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

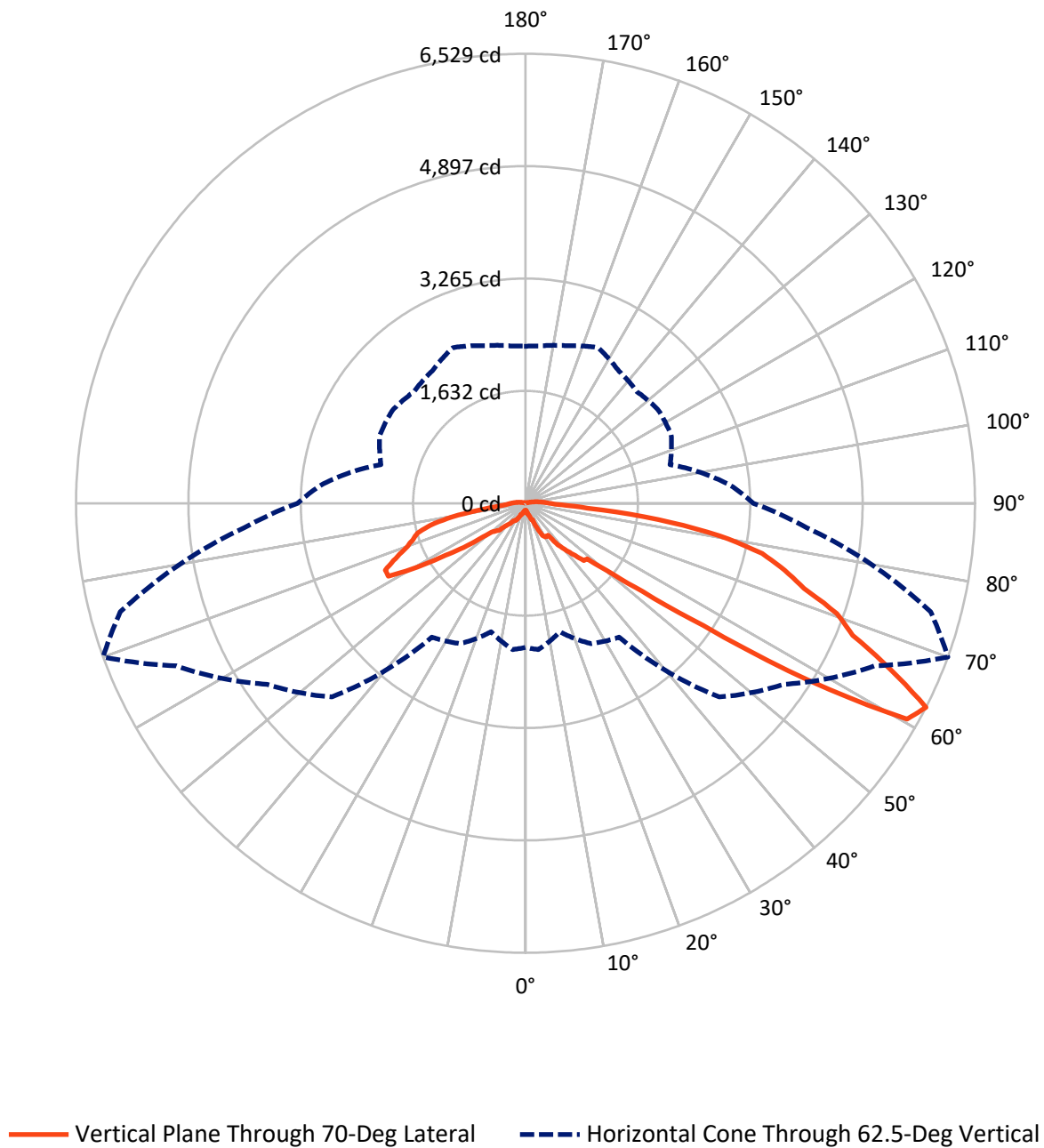


Based on 10 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P588551

CATALOG NUMBER: ARC-CA6-90-740-U-33-6-5-X

Luminous Intensity Polar Plot



REPORT NUMBER: P588551

CATALOG NUMBER: ARC-CA6-90-740-U-33-6-5-X

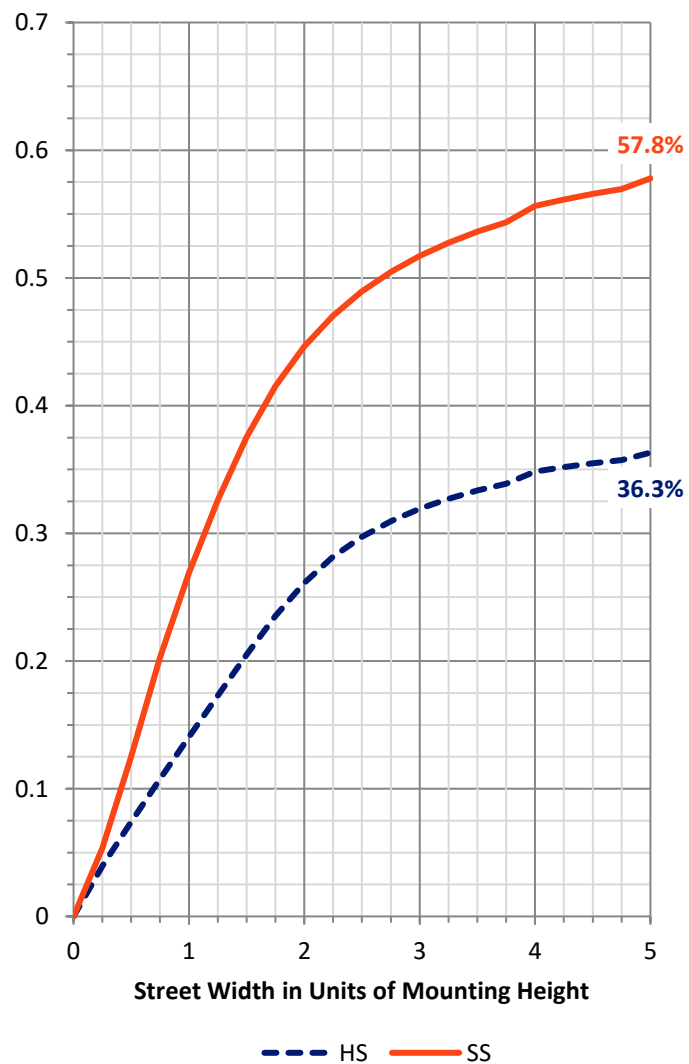
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3240.0	118.8	3358.8
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	5220.0	163.2	5383.2
	% Fixture	59.7	1.9	61.6
Total	Lumens	8460.0	282.0	8742.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.1	0.1
10°-20°	47.6	0.5
20°-30°	147.5	1.7
30°-40°	316.3	3.6
40°-50°	592.5	6.8
50°-60°	1537.6	17.6
60°-70°	2816.7	32.2
70°-80°	2259.3	25.8
80°-90°	731.6	8.4
90°-100°	192.8	2.2
100°-110°	62.7	0.7
110°-120°	24.6	0.3
120°-130°	1.9	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8460.0	96.8
0°-180°	8742.0	100.0

Coefficient of Utilization



REPORT NUMBER: P588551

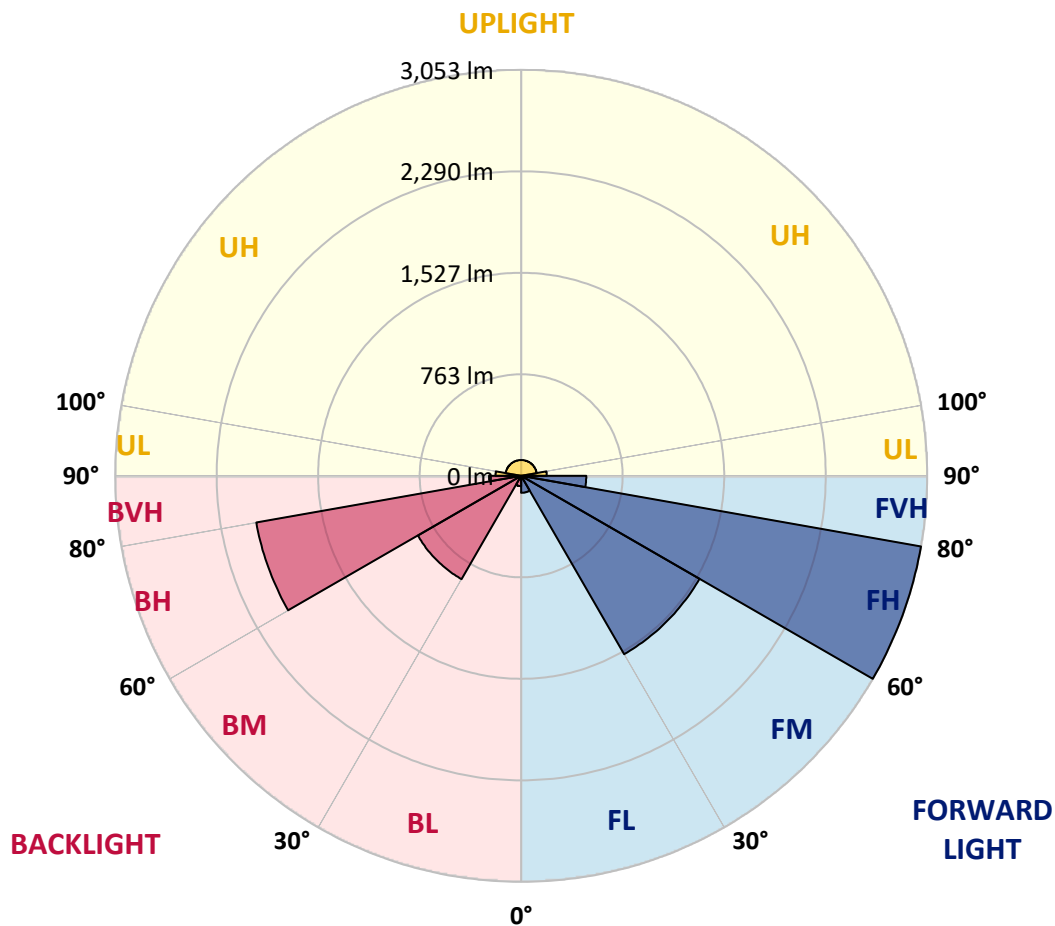
CATALOG NUMBER: ARC-CA6-90-740-U-33-6-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	128.3	1.5			
FM	(30°-60°)	1549.0	17.7			
FH	(60°-80°)	3053.4	34.9			G2/5000
FVH	(80°-90°)	489.4	5.6			G3/500
BL	(0°-30°)	77.8	0.9	B0/110		
BM	(30°-60°)	897.5	10.3	B1/1000		
BH	(60°-80°)	2022.5	23.1	B3/2500		G3/2500
BVH	(80°-90°)	242.1	2.8			G3/500
UL	(90°-100°)	192.8	2.2		U3/500	
UH	(100°-180°)	118.8	1.4		U3/500	

BUG Rating: B3-U3-G3

Type III Short



REPORT NUMBER: P588551

CATALOG NUMBER: ARC-CA6-90-740-U-33-6-5-X

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	103.6	103.6	103.6	103.6	103.6	103.6	103.6	103.6	103.6	103.6	103.6
2.5°	112.0	112.0	112.0	110.3	108.6	107.0	105.3	105.3	103.6	101.9	100.3
5°	122.0	120.3	118.7	115.3	113.6	113.6	112.0	112.0	112.0	110.3	108.6
7.5°	135.4	135.4	133.7	132.0	130.4	128.7	127.0	125.3	125.3	123.7	122.0
10°	153.7	153.7	153.7	152.1	152.1	150.4	147.1	145.4	142.1	140.4	135.4
12.5°	172.1	173.8	170.5	170.5	170.5	168.8	165.4	163.8	160.4	157.1	150.4
15°	190.5	188.8	187.2	185.5	188.8	188.8	187.2	187.2	180.5	175.5	163.8
17.5°	207.2	207.2	208.9	208.9	213.9	212.2	212.2	210.6	207.2	198.9	183.8
20°	234.0	235.6	235.6	235.6	252.4	259.0	260.7	262.4	257.4	240.7	210.6
22.5°	260.7	262.4	274.1	270.7	270.7	270.7	287.4	279.1	257.4	237.3	220.6
25°	352.6	357.6	361.0	372.7	386.0	422.8	481.3	462.9	429.5	361.0	304.2
27.5°	441.2	447.9	508.0	591.6	603.3	559.8	601.6	546.5	529.8	459.6	412.8
30°	481.3	493.0	596.6	653.4	673.5	616.7	676.8	571.5	566.5	516.4	476.3
32.5°	491.3	499.7	613.3	620.0	625.0	618.3	708.6	579.9	568.2	518.1	459.6
35°	476.3	486.3	563.2	524.8	526.4	645.1	813.9	625.0	571.5	484.6	419.5
37.5°	586.6	586.6	651.8	661.8	705.2	849.0	1066.2	825.6	765.4	631.7	551.5
40°	668.5	676.8	780.4	818.9	825.6	947.6	1335.3	967.6	882.4	706.9	645.1
42.5°	778.8	777.1	872.4	899.1	917.5	962.6	1365.4	1113.0	1012.7	800.5	753.7
45°	797.2	823.9	910.8	880.7	904.1	1019.4	1425.5	1318.6	1184.9	977.6	880.7
47.5°	723.6	760.4	935.9	910.8	817.2	870.7	1143.1	1353.7	1206.6	1004.4	935.9
50°	780.4	800.5	887.4	870.7	745.4	925.8	1255.1	1696.3	1532.5	1194.9	1019.4
52.5°	1009.4	1052.9	1067.9	1133.1	1072.9	1385.4	1756.4	2149.2	2127.4	1729.7	1345.3
55°	1296.8	1360.4	1427.2	1674.5	1709.6	2175.9	2451.6	2871.1	3131.8	2735.7	2063.9
57.5°	1607.7	1697.9	1676.2	2035.5	2090.7	2948.0	3202.0	4184.7	4881.6	4343.4	3023.2
60°	1908.5	1968.7	1846.7	2162.5	2267.8	3711.7	4084.4	5449.8	6367.2	5794.0	3723.4
62.5°	2094.0	2132.4	1931.9	2249.4	2373.1	3977.4	4584.1	5591.8	6529.3	6093.2	4102.8
65°	2092.3	2082.3	1853.4	2129.1	2112.4	3671.6	4430.3	4699.4	5832.5	5758.9	4151.2
67.5°	2010.4	2013.8	1773.1	1992.1	1923.5	3237.1	4104.4	3975.8	5127.2	5225.8	4037.6
70°	1931.9	1972.0	1743.1	1933.6	1901.8	3113.4	3962.4	3578.0	4796.3	4983.5	3917.3
72.5°	1821.6	1860.0	1644.5	1811.6	1823.3	2866.1	3720.1	3123.5	4229.8	4455.4	3511.2
75°	1819.9	1868.4	1666.2	1813.2	1831.6	2725.7	3750.2	2966.4	3890.5	4193.0	3277.2
77.5°	1716.3	1759.8	1572.6	1709.6	1761.4	2466.7	3578.0	2770.8	3514.5	3853.8	2971.4
80°	1378.7	1437.2	1283.5	1373.7	1402.1	1850.0	2869.4	2269.5	2859.4	3198.7	2428.2
82.5°	942.6	996.0	894.1	960.9	997.7	1213.3	1983.7	1634.4	1943.6	2150.8	1520.8
85°	544.8	608.3	548.2	539.8	558.2	640.1	1067.9	869.0	904.1	950.9	675.2
87.5°	342.6	352.6	322.5	324.2	327.6	351.0	486.3	387.7	427.8	484.6	409.4
90°	272.4	282.4	260.7	262.4	257.4	279.1	364.3	295.8	329.2	379.4	324.2
92.5°	235.6	242.3	227.3	230.6	227.3	244.0	304.2	244.0	270.7	310.8	265.7
95°	200.5	205.6	197.2	198.9	188.8	198.9	237.3	185.5	205.6	234.0	198.9
97.5°	160.4	165.4	160.4	160.4	150.4	155.4	182.2	143.7	157.1	175.5	150.4
100°	127.0	128.7	127.0	125.3	117.0	117.0	127.0	103.6	108.6	120.3	103.6
102.5°	96.9	98.6	96.9	95.3	85.2	80.2	80.2	66.8	70.2	73.5	65.2
105°	76.9	78.5	76.9	73.5	65.2	60.2	58.5	48.5	48.5	50.1	45.1
107.5°	63.5	63.5	63.5	60.2	55.1	48.5	43.5	35.1	35.1	36.8	35.1
110°	51.8	51.8	50.1	48.5	43.5	38.4	33.4	28.4	28.4	28.4	26.7

REPORT NUMBER: P588551

CATALOG NUMBER: ARC-CA6-90-740-U-33-6-5-X

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	43.5	43.5	41.8	40.1	35.1	30.1	26.7	23.4	23.4	23.4	21.7
115°	36.8	36.8	35.1	33.4	30.1	25.1	21.7	18.4	18.4	18.4	18.4
117.5°	31.8	31.8	30.1	28.4	25.1	21.7	18.4	15.0	15.0	15.0	15.0
120°	28.4	26.7	25.1	23.4	20.1	18.4	15.0	13.4	13.4	13.4	11.7
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P588551

CATALOG NUMBER: ARC-CA6-90-740-U-33-6-5-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	103.6	103.6	103.6	103.6	103.6	103.6	103.6	103.6	103.6	103.6	103.6
2.5°	100.3	100.3	98.6	98.6	98.6	96.9	96.9	98.6	98.6	98.6	98.6
5°	107.0	105.3	101.9	98.6	96.9	95.3	93.6	93.6	96.9	96.9	96.9
7.5°	120.3	118.7	113.6	110.3	107.0	103.6	101.9	100.3	101.9	103.6	103.6
10°	133.7	132.0	125.3	120.3	118.7	115.3	113.6	112.0	113.6	113.6	113.6
12.5°	147.1	143.7	138.7	132.0	128.7	127.0	125.3	123.7	123.7	123.7	123.7
15°	158.8	153.7	148.7	143.7	140.4	137.0	135.4	133.7	135.4	137.0	137.0
17.5°	177.1	172.1	160.4	152.1	150.4	147.1	145.4	145.4	147.1	148.7	148.7
20°	197.2	187.2	173.8	165.4	163.8	158.8	157.1	157.1	158.8	160.4	160.4
22.5°	213.9	207.2	187.2	175.5	173.8	172.1	173.8	173.8	175.5	177.1	177.1
25°	272.4	245.7	217.3	208.9	207.2	203.9	200.5	198.9	200.5	205.6	207.2
27.5°	367.7	319.2	265.7	247.3	247.3	250.7	257.4	260.7	254.0	250.7	252.4
30°	431.2	366.0	289.1	272.4	275.7	292.5	307.5	317.5	310.8	305.8	307.5
32.5°	414.5	354.3	299.1	295.8	305.8	319.2	327.6	332.6	345.9	351.0	357.6
35°	377.7	332.6	302.5	315.9	322.5	322.5	322.5	322.5	347.6	371.0	377.7
37.5°	461.2	384.4	359.3	364.3	359.3	354.3	359.3	372.7	394.4	412.8	417.8
40°	541.5	444.5	402.8	399.4	397.7	414.5	444.5	467.9	474.6	457.9	461.2
42.5°	630.0	503.0	449.6	454.6	467.9	494.7	528.1	528.1	528.1	513.1	518.1
45°	713.6	571.5	539.8	553.2	553.2	566.5	584.9	573.2	588.3	594.9	603.3
47.5°	812.2	663.5	593.3	581.6	583.2	610.0	616.7	611.7	621.7	610.0	610.0
50°	842.3	678.5	623.4	668.5	668.5	638.4	613.3	616.7	645.1	676.8	683.5
52.5°	1071.2	840.6	790.5	837.3	857.3	805.5	805.5	812.2	818.9	842.3	849.0
55°	1602.7	1198.2	1047.8	1156.5	1171.5	1203.3	1290.2	1276.8	1199.9	1161.5	1158.1
57.5°	2396.5	1778.1	1305.2	1459.0	1555.9	1686.2	1751.4	1713.0	1609.4	1574.3	1535.8
60°	3063.3	2434.9	1691.2	1958.6	2104.0	2125.8	2102.4	2105.7	2027.2	2052.2	2042.2
62.5°	3310.6	2988.1	2174.2	2336.3	2358.1	2291.2	2353.0	2495.1	2368.1	2292.9	2281.2
65°	3384.2	3193.6	2309.6	2204.3	2184.2	2172.6	2416.5	2653.9	2369.8	2194.3	2192.6
67.5°	3310.6	2983.1	2137.5	1963.7	2010.4	2105.7	2423.2	2511.8	2244.4	2050.6	2037.2
70°	3215.4	2643.8	1923.5	1773.1	1881.8	2020.5	2222.7	2187.6	2082.3	1910.2	1901.8
72.5°	2869.4	2291.2	1786.5	1661.2	1784.8	1824.9	1925.2	1910.2	1940.3	1831.6	1826.6
75°	2568.6	2104.0	1704.6	1557.6	1617.7	1611.0	1691.2	1709.6	1794.9	1748.1	1729.7
77.5°	2216.0	1830.0	1502.4	1331.9	1355.3	1353.7	1392.1	1403.8	1464.0	1467.3	1447.3
80°	1734.7	1433.9	1173.2	1002.7	1006.1	976.0	981.0	979.3	991.0	1004.4	986.0
82.5°	996.0	800.5	665.1	556.5	533.1	493.0	484.6	488.0	483.0	479.6	479.6
85°	488.0	379.4	349.3	312.5	299.1	289.1	294.1	304.2	309.2	299.1	294.1
87.5°	329.2	284.1	270.7	255.7	249.0	239.0	245.7	254.0	260.7	252.4	250.7
90°	260.7	225.6	222.3	218.9	213.9	205.6	212.2	222.3	227.3	220.6	217.3
92.5°	210.6	182.2	182.2	180.5	175.5	168.8	177.1	185.5	190.5	185.5	183.8
95°	162.1	140.4	145.4	142.1	137.0	135.4	140.4	147.1	150.4	147.1	147.1
97.5°	125.3	110.3	115.3	113.6	107.0	105.3	108.6	113.6	117.0	113.6	112.0
100°	85.2	78.5	85.2	85.2	78.5	75.2	78.5	83.6	85.2	85.2	83.6
102.5°	56.8	53.5	61.8	63.5	60.2	56.8	58.5	61.8	63.5	63.5	63.5
105°	40.1	40.1	48.5	50.1	46.8	43.5	46.8	48.5	48.5	48.5	48.5
107.5°	31.8	33.4	38.4	41.8	38.4	35.1	36.8	38.4	38.4	38.4	40.1
110°	26.7	26.7	31.8	35.1	31.8	30.1	30.1	30.1	30.1	31.8	35.1

REPORT NUMBER: P588551

CATALOG NUMBER: ARC-CA6-90-740-U-33-6-5-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	21.7	23.4	26.7	28.4	26.7	25.1	25.1	25.1	25.1	26.7	31.8
115°	18.4	20.1	23.4	23.4	21.7	21.7	21.7	20.1	20.1	21.7	30.1
117.5°	15.0	16.7	18.4	18.4	18.4	16.7	16.7	16.7	16.7	20.1	31.8
120°	13.4	13.4	15.0	15.0	13.4	13.4	13.4	13.4	11.7	16.7	25.1
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)