

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: P588552

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

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-9)
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-X-5-X
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR
Light Source: (6) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12890 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U4 - G5

Input Watts (W): 93.9
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



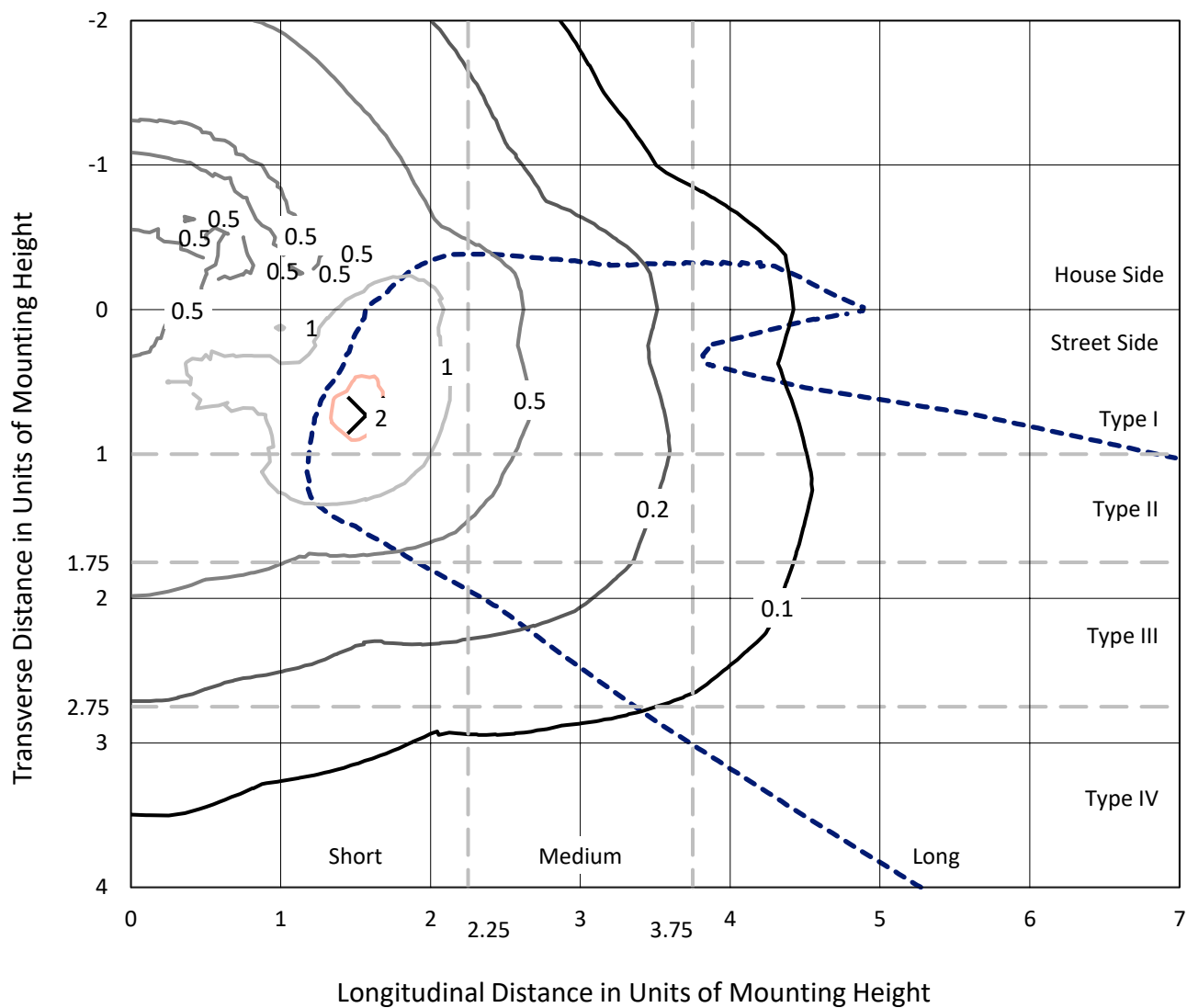
REPORT NUMBER: P588552

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

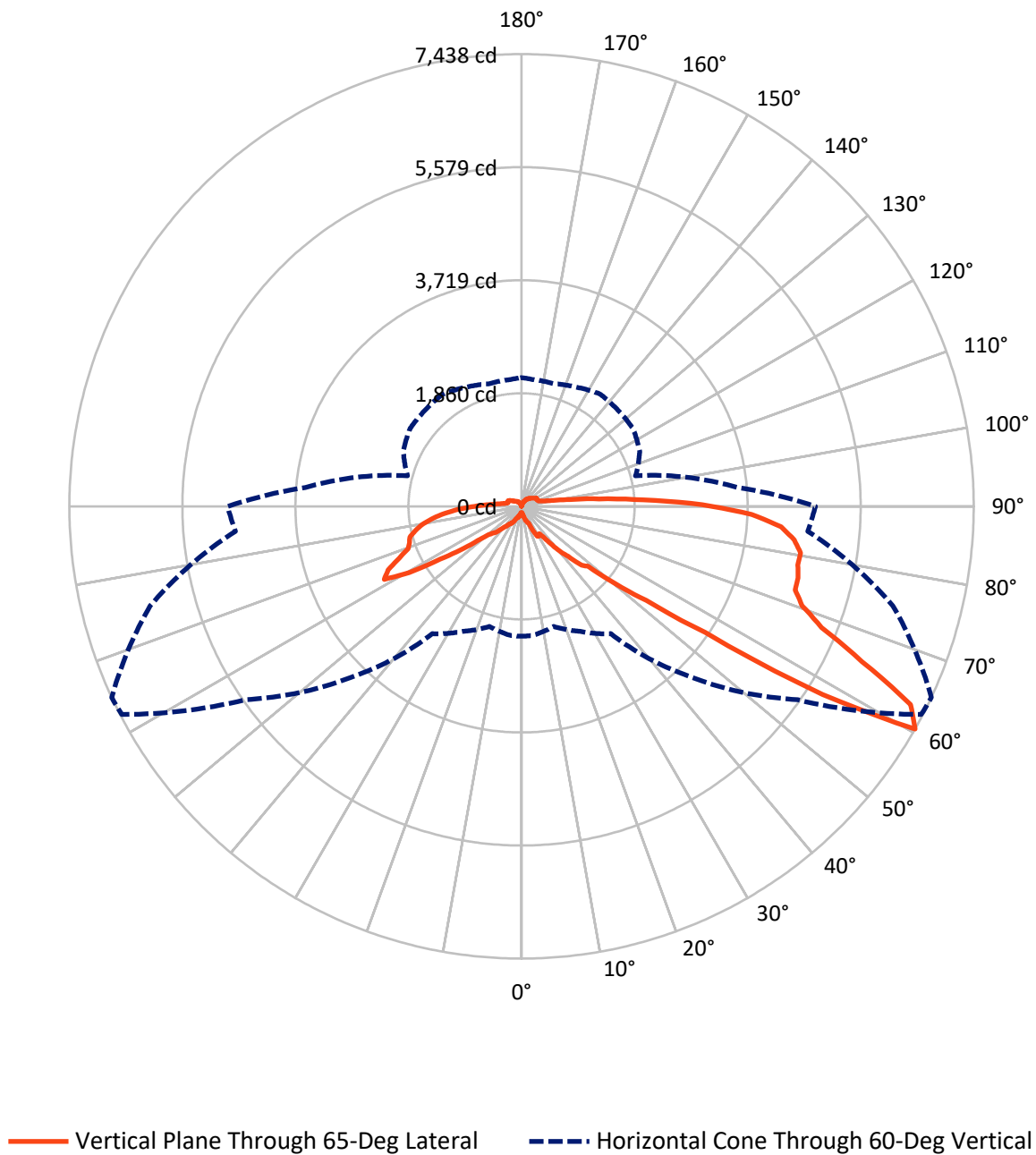


Based on 20 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P588552

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

Luminous Intensity Polar Plot



REPORT NUMBER: P588552

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

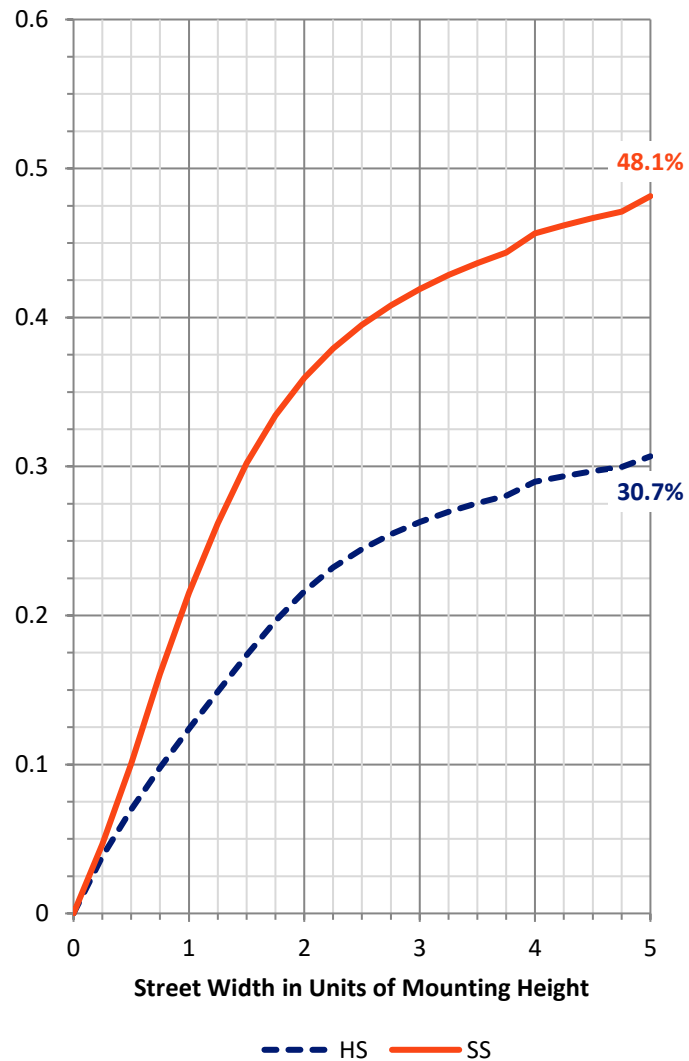
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4298.5	688.4	4986.9
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	6877.1	1026.0	7903.1
	% Fixture	53.4	8.0	61.3
Total	Lumens	11175.6	1714.4	12890.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.4	0.1
10°-20°	55.0	0.4
20°-30°	157.4	1.2
30°-40°	339.0	2.6
40°-50°	641.5	5.0
50°-60°	1792.1	13.9
60°-70°	3195.0	24.8
70°-80°	2797.3	21.7
80°-90°	2185.6	17.0
90°-100°	826.3	6.4
100°-110°	284.2	2.2
110°-120°	232.4	1.8
120°-130°	156.1	1.2
130°-140°	107.2	0.8
140°-150°	67.4	0.5
150°-160°	31.2	0.2
160°-170°	8.8	0.1
170°-180°	0.8	0.0
0°-90°	11175.6	86.7
0°-180°	12890.0	100.0

Coefficient of Utilization



REPORT NUMBER: P588552

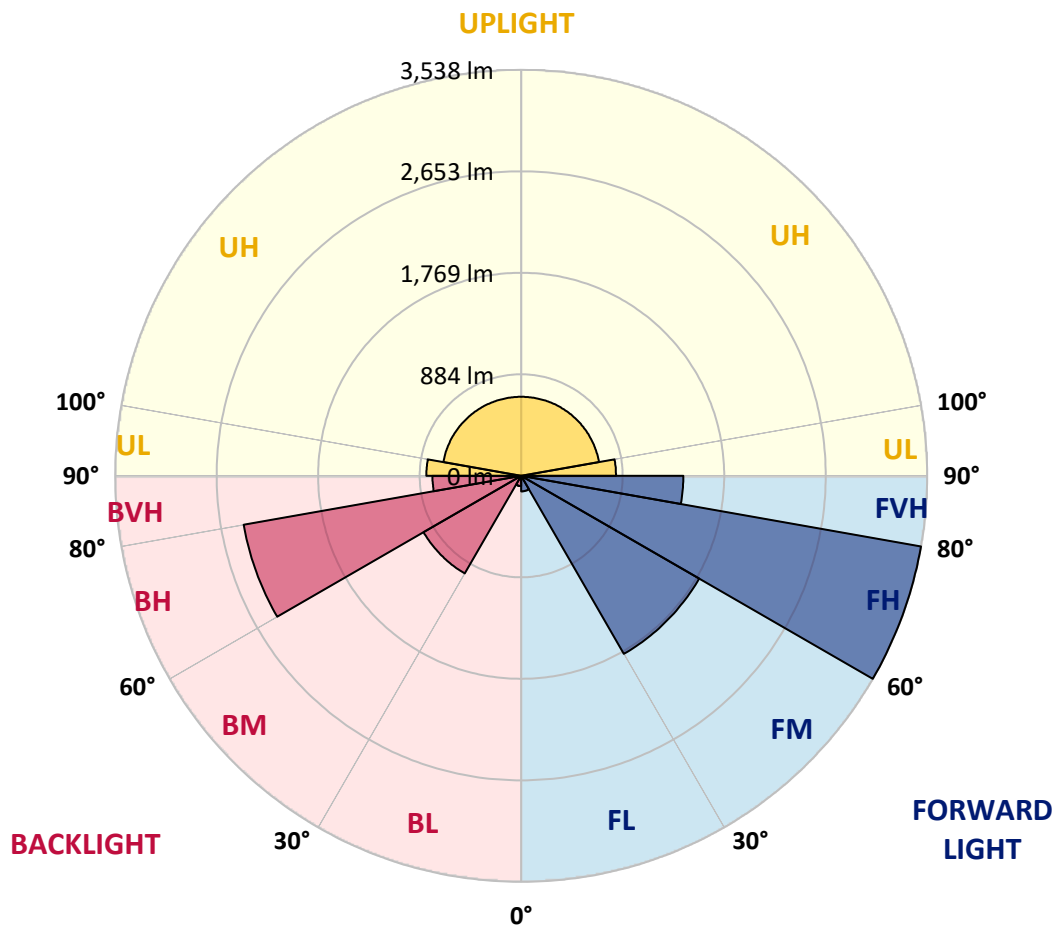
CATALOG NUMBER: ARC-CA6-90-740-U-33-X-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	135.8	1.1			
FM	(30°-60°)	1790.9	13.9			
FH	(60°-80°)	3537.6	27.4			G2/5000
FVH	(80°-90°)	1412.7	11.0			G5
BL	(0°-30°)	89.0	0.7	B0/110		
BM	(30°-60°)	981.8	7.6	B1/1000		
BH	(60°-80°)	2454.8	19.0	B3/2500		G3/2500
BVH	(80°-90°)	772.9	6.0			G5
UL	(90°-100°)	826.3	6.4		U4/1000	
UH	(100°-180°)	688.4	5.3		U4/1000	

BUG Rating: B3-U4-G5

Type III Short



REPORT NUMBER: P588552

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
2.5°	113.6	110.3	107.0	107.0	105.3	103.6	103.6	100.3	101.9	100.3	100.3
5°	133.7	132.0	128.7	130.4	127.0	125.3	125.3	123.7	122.0	120.3	115.3
7.5°	155.4	155.4	157.1	158.8	153.7	148.7	147.1	143.7	143.7	142.0	138.7
10°	178.8	177.1	170.5	170.5	167.1	163.8	165.4	163.8	163.8	163.8	157.1
12.5°	185.5	183.8	178.8	178.8	178.8	177.1	183.8	182.2	183.8	182.2	172.1
15°	208.9	207.2	205.6	207.2	213.9	227.3	244.0	237.3	239.0	235.6	198.9
17.5°	218.9	223.9	227.3	229.0	235.6	235.6	239.0	237.3	244.0	249.0	227.3
20°	254.0	250.7	254.0	265.7	282.4	284.1	279.1	279.1	282.4	284.1	242.3
22.5°	269.1	267.4	280.8	270.7	270.7	279.1	309.2	299.1	299.1	295.8	260.7
25°	349.3	356.0	369.3	386.0	426.1	437.8	471.3	434.5	439.5	387.7	330.9
27.5°	419.5	424.5	503.0	573.2	605.0	588.3	616.7	548.1	554.8	561.5	483.0
30°	441.2	451.2	564.9	616.7	658.4	625.0	661.8	571.5	566.5	605.0	573.2
32.5°	424.5	434.5	554.8	576.6	620.0	743.7	696.9	551.5	536.4	554.8	593.3
35°	466.3	472.9	544.8	493.0	533.1	1039.5	912.5	643.4	613.3	511.4	568.2
37.5°	559.8	559.8	645.1	681.8	711.9	1226.6	1198.2	800.5	777.1	598.3	656.8
40°	678.5	675.2	780.4	805.5	818.9	1111.3	1448.9	1021.1	969.3	703.6	855.6
42.5°	750.4	743.7	828.9	855.6	855.6	940.9	1639.4	1243.3	1123.0	820.5	1046.2
45°	778.8	785.4	895.7	862.3	887.4	965.9	1843.3	1550.8	1382.1	962.6	1213.3
47.5°	705.2	715.3	874.0	877.4	750.4	772.1	1652.8	1611.0	1472.3	1031.1	1266.7
50°	865.7	872.4	929.2	890.7	828.9	977.6	1968.6	2070.6	2010.4	1276.8	1336.9
52.5°	1188.2	1218.3	1271.8	1305.2	1286.8	1642.8	2640.4	2622.1	2571.9	1916.8	1824.9
55°	1539.1	1564.2	1639.4	1841.6	1995.4	2460.0	3283.8	3668.2	3664.9	3113.4	2844.3
57.5°	1858.3	1860.0	1870.0	2119.0	2356.3	3212.0	4301.6	5713.7	5840.7	4973.4	4072.6
60°	2135.8	2130.7	2045.5	2267.8	2556.9	3982.4	5544.9	7413.3	7438.4	6323.7	4724.4
62.5°	2211.0	2195.9	2072.2	2279.5	2526.8	3997.4	5862.5	7211.1	7182.7	6419.0	4809.6
65°	2145.8	2130.7	1973.7	2159.2	2276.1	3633.1	5414.6	6201.7	6154.9	5864.1	4579.0
67.5°	2048.9	2058.9	1903.5	2045.5	2125.7	3407.5	4943.3	5336.0	5322.7	5464.7	4386.8
70°	1908.5	1916.8	1774.8	1950.3	2067.2	3263.8	4492.1	4918.3	4894.9	5103.7	4104.4
72.5°	1913.5	1938.6	1769.8	1901.8	2023.8	3066.6	4288.2	4774.5	4706.0	4737.8	3765.1
75°	1926.9	1960.3	1781.5	1900.1	2013.8	2994.7	4264.8	4786.2	4699.3	4605.7	3636.5
77.5°	1931.9	1980.3	1788.2	1918.5	2017.1	2896.1	4211.3	4727.7	4645.8	4478.7	3484.4
80°	1891.8	1943.6	1759.7	1920.2	1995.4	2700.6	4076.0	4717.7	4655.9	4462.0	3422.6
82.5°	1811.5	1863.4	1704.6	1836.6	1953.6	2501.7	3885.5	4522.2	4518.8	4301.6	3292.2
85°	1636.1	1692.9	1572.6	1694.6	1838.3	2237.7	3501.1	4189.6	4281.5	4106.1	3116.7
87.5°	1467.3	1524.1	1460.6	1529.1	1674.5	1945.2	3008.1	3616.4	3788.5	3643.1	2677.2
90°	1275.1	1333.6	1281.8	1255.0	1372.0	1552.5	2404.8	2812.6	2974.7	2886.1	1970.3
92.5°	1021.1	1071.2	1022.8	960.9	1031.1	1139.7	1786.5	1968.6	2007.1	1921.8	1291.8
95°	772.1	808.8	765.4	703.6	711.9	780.4	1231.7	1290.1	1280.1	1178.2	820.5
97.5°	536.4	558.2	529.8	486.3	501.4	544.8	815.5	808.8	808.8	720.3	536.4
100°	372.7	381.0	367.7	347.6	359.3	387.7	548.1	546.5	529.8	486.3	391.1
102.5°	295.8	297.5	284.1	270.7	264.0	290.8	396.1	394.4	397.7	377.7	305.8
105°	260.7	259.0	247.3	235.6	222.3	249.0	314.2	327.5	325.9	309.2	262.4
107.5°	239.0	237.3	225.6	215.6	203.9	227.3	272.4	290.8	289.1	287.4	247.3
110°	222.3	220.6	210.6	200.5	190.5	217.3	255.7	284.1	284.1	284.1	250.7

REPORT NUMBER: P588552

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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	210.6	210.6	202.2	193.9	185.5	215.6	245.7	279.1	279.1	287.4	262.4
115°	203.9	202.2	195.5	190.5	183.8	217.3	242.3	275.7	277.4	289.1	260.7
117.5°	198.9	197.2	192.2	185.5	182.2	213.9	244.0	282.4	280.8	299.1	255.7
120°	190.5	187.2	180.5	173.8	170.5	197.2	237.3	274.1	270.7	279.1	235.6
122.5°	183.8	173.8	162.1	157.1	157.1	178.8	222.3	247.3	244.0	237.3	212.2
125°	168.8	158.8	148.7	147.1	148.7	167.1	212.2	227.3	229.0	223.9	200.5
127.5°	152.1	145.4	140.4	140.4	143.7	163.8	208.9	218.9	218.9	208.9	190.5
130°	143.7	142.0	138.7	138.7	145.4	165.4	203.9	207.2	207.2	193.9	185.5
132.5°	140.4	137.0	133.7	133.7	140.4	160.4	190.5	197.2	195.5	182.2	175.5
135°	133.7	132.0	128.7	128.7	137.0	157.1	178.8	185.5	183.8	167.1	162.1
137.5°	130.4	127.0	127.0	127.0	135.4	155.4	168.8	173.8	172.1	155.4	150.4
140°	125.3	123.7	120.3	120.3	132.0	150.4	158.8	160.4	158.8	145.4	140.4
142.5°	117.0	115.3	113.6	117.0	128.7	142.0	148.7	148.7	147.1	138.7	132.0
145°	112.0	110.3	108.6	117.0	127.0	133.7	140.4	135.4	135.4	130.4	123.7
147.5°	107.0	105.3	105.3	112.0	120.3	120.3	125.3	123.7	125.3	123.7	117.0
150°	96.9	95.3	95.3	100.3	101.9	101.9	107.0	107.0	107.0	107.0	101.9
152.5°	85.2	83.6	85.2	86.9	86.9	86.9	90.2	91.9	91.9	90.2	88.6
155°	73.5	73.5	73.5	75.2	75.2	73.5	78.5	78.5	78.5	78.5	76.9
157.5°	65.2	65.2	65.2	65.2	65.2	63.5	66.8	66.8	68.5	66.8	66.8
160°	56.8	55.1	55.1	55.1	55.1	53.5	55.1	55.1	55.1	56.8	56.8
162.5°	45.1	43.5	43.5	43.5	43.5	40.1	43.5	41.8	43.5	43.5	45.1
165°	36.8	35.1	35.1	35.1	33.4	31.8	33.4	31.8	31.8	31.8	33.4
167.5°	28.4	28.4	26.7	28.4	26.7	23.4	23.4	21.7	21.7	21.7	21.7
170°	21.7	20.1	18.4	20.1	18.4	15.0	15.0	13.4	13.4	11.7	11.7
172.5°	15.0	13.4	11.7	13.4	11.7	8.4	8.4	5.0	5.0	5.0	5.0
175°	13.4	11.7	10.0	11.7	10.0	6.7	5.0	3.3	3.3	3.3	3.3
177.5°	13.4	11.7	10.0	11.7	10.0	6.7	5.0	3.3	3.3	3.3	3.3
180°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7

REPORT NUMBER: P588552

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
2.5°	100.3	98.6	96.9	100.3	98.6	100.3	101.9	103.6	103.6	101.9	101.9
5°	115.3	113.6	110.3	108.6	105.3	105.3	105.3	108.6	108.6	107.0	108.6
7.5°	137.0	133.7	128.7	125.3	120.3	120.3	118.7	122.0	123.7	120.3	122.0
10°	153.7	152.1	145.4	140.4	135.4	133.7	133.7	135.4	135.4	133.7	133.7
12.5°	168.8	165.4	158.8	153.7	147.1	145.4	145.4	147.1	147.1	145.4	145.4
15°	190.5	180.5	173.8	168.8	162.1	160.4	158.8	160.4	162.1	158.8	158.8
17.5°	220.6	208.9	193.9	180.5	173.8	177.1	178.8	180.5	178.8	173.8	173.8
20°	237.3	230.6	210.6	200.5	192.2	192.2	192.2	192.2	192.2	190.5	192.2
22.5°	249.0	239.0	213.9	207.2	202.2	205.6	208.9	210.6	210.6	208.9	208.9
25°	302.5	265.7	240.6	235.6	229.0	230.6	227.3	227.3	229.0	227.3	230.6
27.5°	416.1	356.0	299.1	279.1	274.1	274.1	277.4	277.4	277.4	277.4	275.7
30°	499.7	429.5	335.9	309.2	305.8	320.9	329.2	335.9	332.6	327.5	327.5
32.5°	513.0	436.2	342.6	332.6	340.9	352.6	361.0	366.0	371.0	369.3	367.7
35°	484.6	402.8	337.6	350.9	357.6	364.3	366.0	362.6	377.7	384.4	386.0
37.5°	541.5	451.2	392.7	402.8	394.4	387.7	391.1	392.7	412.8	422.8	432.8
40°	691.9	544.8	446.2	441.2	436.2	451.2	471.3	481.3	479.6	472.9	474.6
42.5°	837.3	636.7	503.0	501.4	499.7	526.4	558.2	556.5	541.5	529.8	529.8
45°	986.0	725.3	593.3	594.9	591.6	601.6	610.0	603.3	605.0	608.3	611.6
47.5°	1077.9	805.5	650.1	645.1	623.3	643.4	666.8	651.8	646.7	638.4	641.7
50°	1099.6	825.6	683.5	720.3	700.2	685.2	660.1	650.1	668.5	681.8	691.9
52.5°	1428.8	1019.4	854.0	912.5	885.7	832.2	827.2	810.5	830.6	832.2	843.9
55°	2394.8	1634.4	1176.5	1233.3	1235.0	1216.6	1300.2	1253.4	1211.6	1193.2	1186.5
57.5°	3775.2	2526.8	1522.4	1594.3	1662.8	1728.0	1841.6	1746.4	1626.0	1611.0	1627.7
60°	4834.7	3567.9	1941.9	2144.1	2236.0	2239.4	2254.4	2160.8	2087.3	2094.0	2117.4
62.5°	5062.0	4437.0	2473.3	2556.9	2565.2	2503.4	2530.1	2590.3	2486.7	2404.8	2426.5
65°	4909.9	4781.2	2647.1	2429.9	2416.5	2426.5	2608.7	2775.8	2566.9	2359.7	2359.7
67.5°	4615.8	4518.8	2470.0	2185.9	2222.7	2336.3	2566.9	2650.5	2428.2	2207.6	2207.6
70°	4301.6	4107.7	2271.1	1992.0	2082.3	2214.3	2364.7	2371.4	2241.0	2083.9	2073.9
72.5°	3962.3	3786.9	2185.9	1935.2	1977.0	2000.4	2082.3	2134.1	2119.0	2017.1	2015.4
75°	3862.1	3720.0	2184.2	1908.5	1883.4	1875.1	1931.9	2043.8	2095.6	2035.5	2038.8
77.5°	3710.0	3624.8	2082.3	1796.5	1769.8	1769.8	1799.8	1890.1	1968.6	1943.6	1951.9
80°	3604.7	3476.0	1926.9	1674.5	1637.7	1642.8	1646.1	1707.9	1781.5	1784.8	1784.8
82.5°	3402.5	3160.2	1691.2	1492.4	1467.3	1474.0	1462.3	1497.4	1517.4	1542.5	1537.5
85°	3069.9	2727.3	1428.8	1293.5	1253.4	1240.0	1230.0	1231.7	1243.3	1238.3	1218.3
87.5°	2571.9	2162.5	1139.7	1061.2	1014.4	981.0	967.6	950.9	949.2	930.8	937.5
90°	1898.4	1484.0	845.6	817.2	783.8	748.7	730.3	713.6	700.2	681.8	675.2
92.5°	1238.3	955.9	618.3	603.3	581.6	561.5	553.2	544.8	541.5	526.4	531.4
95°	773.8	646.7	464.6	447.9	436.2	431.2	432.8	434.5	431.2	414.4	419.5
97.5°	516.4	467.9	362.6	350.9	339.2	337.6	339.2	342.6	344.3	332.6	335.9
100°	381.0	359.3	297.5	289.1	279.1	275.7	277.4	280.8	282.4	272.4	274.1
102.5°	302.5	292.5	257.4	254.0	242.3	239.0	242.3	244.0	245.7	239.0	239.0
105°	265.7	265.7	237.3	235.6	227.3	223.9	225.6	227.3	229.0	222.3	222.3
107.5°	255.7	257.4	229.0	230.6	225.6	223.9	227.3	230.6	229.0	223.9	222.3
110°	264.0	267.4	229.0	234.0	235.6	239.0	245.7	247.3	247.3	244.0	245.7

REPORT NUMBER: P588552

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	272.4	277.4	225.6	237.3	249.0	257.4	269.1	275.7	272.4	270.7	272.4
115°	265.7	269.1	210.6	229.0	250.7	262.4	265.7	265.7	257.4	257.4	259.0
117.5°	257.4	264.0	195.5	210.6	225.6	235.6	234.0	229.0	218.9	215.6	225.6
120°	239.0	259.0	187.2	190.5	192.2	195.5	190.5	185.5	177.1	175.5	182.2
122.5°	220.6	239.0	172.1	168.8	167.1	167.1	165.4	163.8	158.8	160.4	167.1
125°	205.6	215.6	157.1	152.1	150.4	152.1	152.1	152.1	148.7	145.4	145.4
127.5°	193.9	197.2	148.7	142.0	140.4	140.4	140.4	142.0	140.4	135.4	135.4
130°	187.2	185.5	143.7	132.0	130.4	132.0	132.0	133.7	130.4	127.0	127.0
132.5°	173.8	170.5	137.0	125.3	123.7	125.3	125.3	125.3	122.0	118.7	118.7
135°	158.8	155.4	128.7	117.0	115.3	117.0	117.0	118.7	115.3	112.0	112.0
137.5°	147.1	143.7	120.3	110.3	108.6	108.6	110.3	110.3	108.6	105.3	105.3
140°	137.0	133.7	112.0	103.6	100.3	101.9	101.9	101.9	100.3	96.9	96.9
142.5°	128.7	127.0	103.6	95.3	91.9	93.6	93.6	95.3	91.9	88.6	88.6
145°	122.0	118.7	96.9	86.9	85.2	85.2	85.2	86.9	83.6	80.2	80.2
147.5°	115.3	112.0	88.6	78.5	76.9	76.9	76.9	76.9	75.2	71.9	70.2
150°	101.9	100.3	81.9	71.9	68.5	68.5	68.5	66.8	63.5	60.2	60.2
152.5°	86.9	85.2	71.9	63.5	60.2	60.2	58.5	58.5	55.1	53.5	51.8
155°	75.2	75.2	65.2	56.8	53.5	51.8	50.1	50.1	48.5	46.8	45.1
157.5°	66.8	65.2	58.5	51.8	45.1	45.1	43.5	43.5	41.8	40.1	38.4
160°	56.8	56.8	50.1	43.5	38.4	36.8	36.8	35.1	33.4	31.8	31.8
162.5°	45.1	45.1	40.1	35.1	30.1	30.1	28.4	28.4	26.7	25.1	23.4
165°	31.8	31.8	30.1	26.7	23.4	21.7	21.7	21.7	20.1	18.4	18.4
167.5°	21.7	21.7	20.1	18.4	16.7	15.0	16.7	16.7	15.0	13.4	13.4
170°	11.7	11.7	10.0	10.0	8.4	8.4	10.0	11.7	10.0	8.4	6.7
172.5°	5.0	5.0	5.0	5.0	3.3	5.0	6.7	8.4	6.7	5.0	5.0
175°	3.3	3.3	5.0	5.0	3.3	5.0	6.7	8.4	6.7	5.0	5.0
177.5°	3.3	3.3	5.0	5.0	3.3	5.0	6.7	8.4	6.7	5.0	5.0
180°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7

(END OF REPORT)