

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: P588528

Luminaire Tested: **ARC-CA6-80-740-U-33-X-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588528
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-CA6-80-740-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: 11665 lumens
Efficiency: N/A
Efficacy: 138.2 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): 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

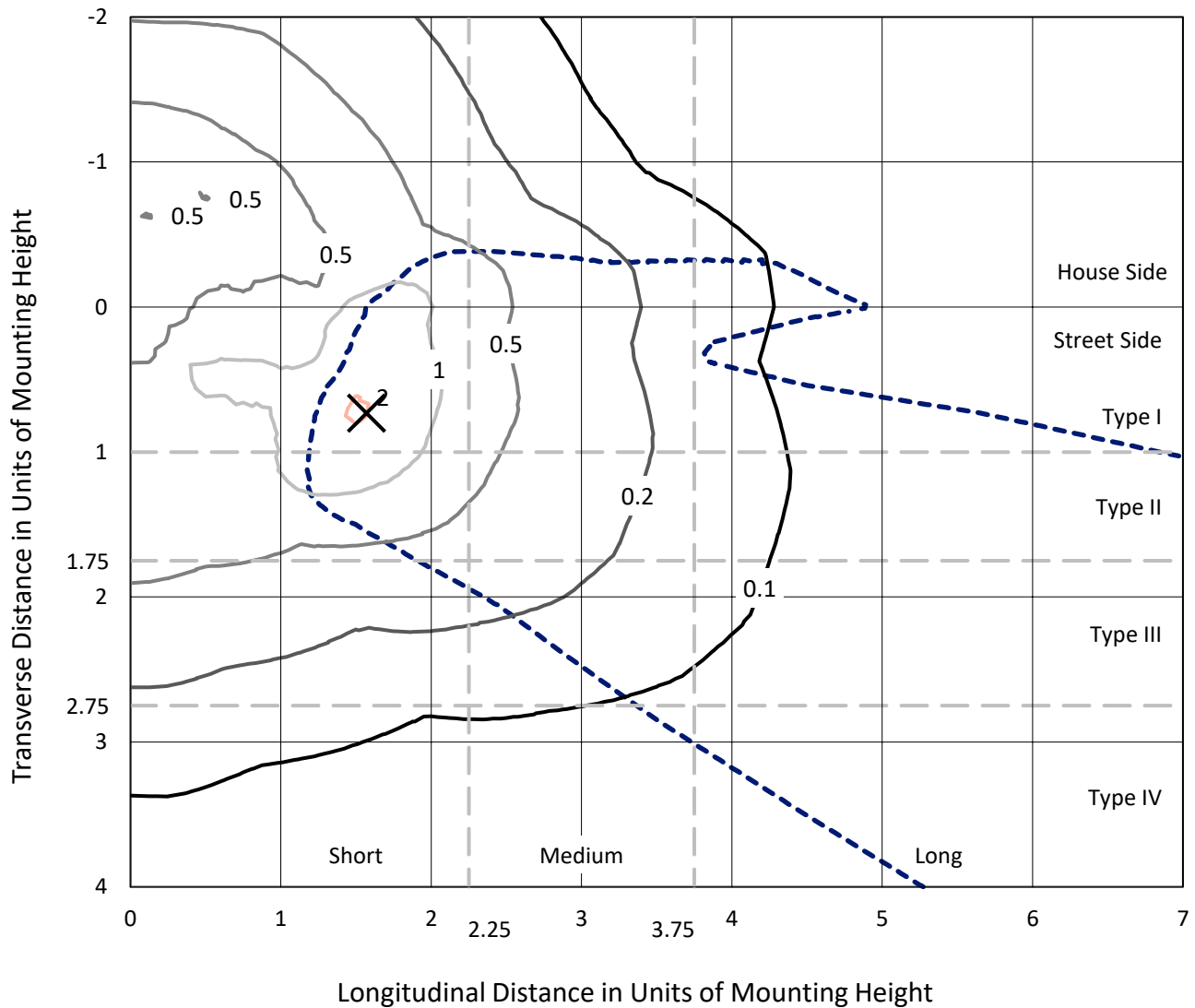


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

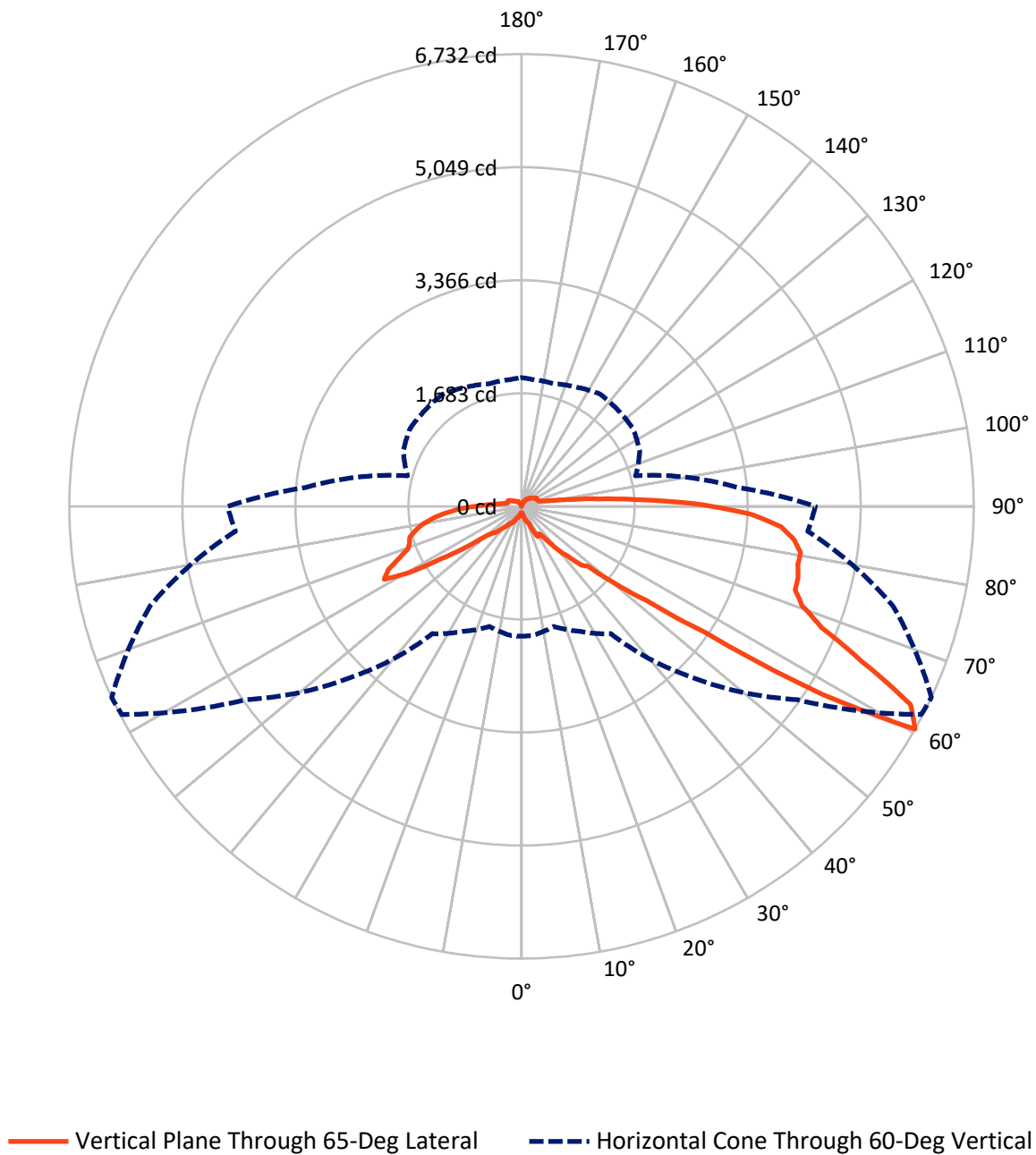


Based on 20 foot mounting height. Maximum calculated value = 2.1 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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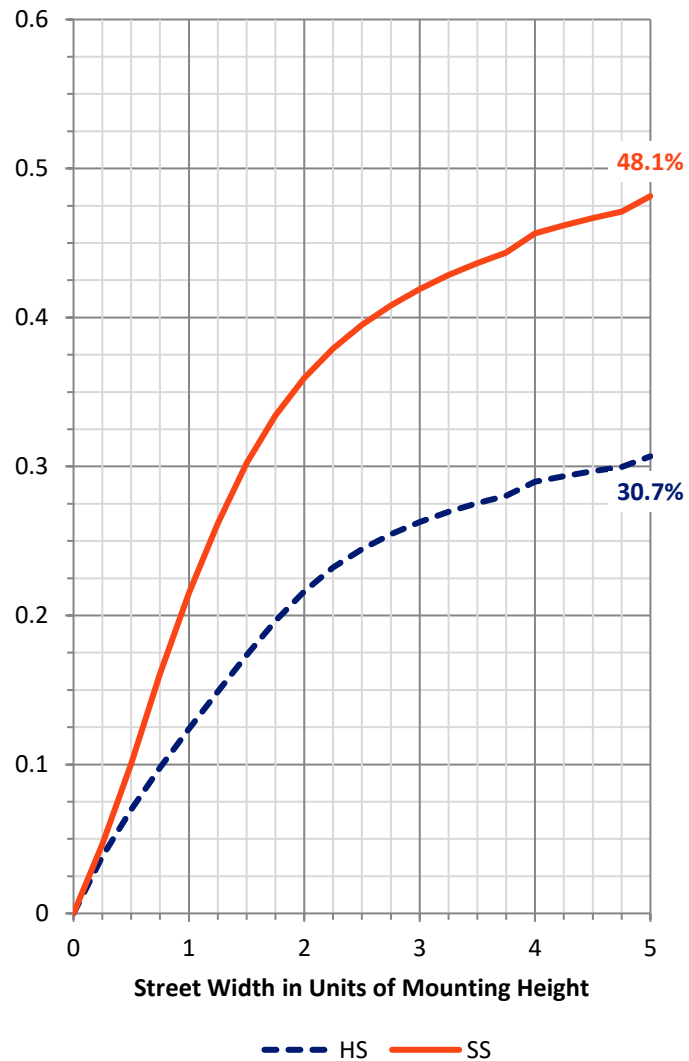
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3890.0	623.0	4513.0
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	6223.5	928.5	7152.0
	% Fixture	53.4	8.0	61.3
Total	Lumens	10113.5	1551.5	11665.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.2	0.1
10°-20°	49.8	0.4
20°-30°	142.5	1.2
30°-40°	306.8	2.6
40°-50°	580.6	5.0
50°-60°	1621.8	13.9
60°-70°	2891.4	24.8
70°-80°	2531.5	21.7
80°-90°	1977.9	17.0
90°-100°	747.8	6.4
100°-110°	257.2	2.2
110°-120°	210.3	1.8
120°-130°	141.3	1.2
130°-140°	97.0	0.8
140°-150°	61.0	0.5
150°-160°	28.3	0.2
160°-170°	8.0	0.1
170°-180°	0.7	0.0
0°-90°	10113.5	86.7
0°-180°	11665.0	100.0

Coefficient of Utilization



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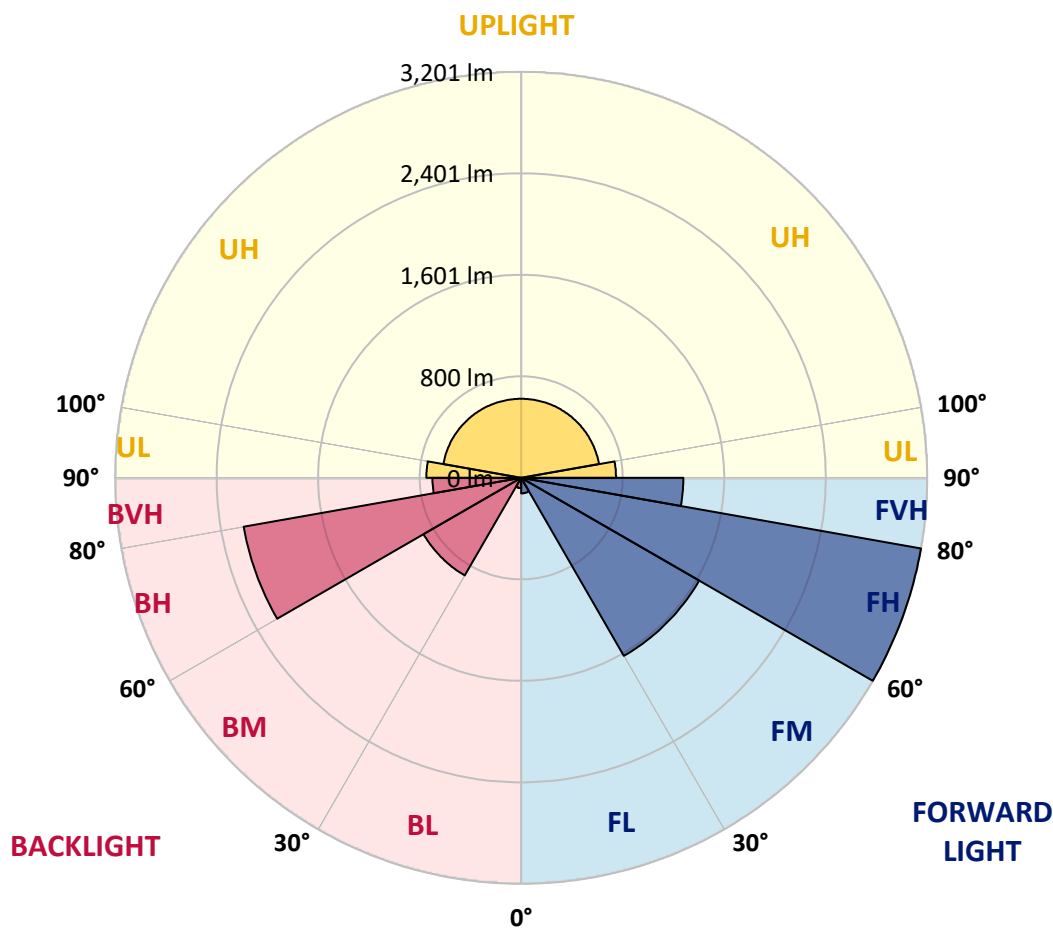
CATALOG NUMBER: ARC-CA6-80-740-U-33-X-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	122.9	1.1			
FM	(30°-60°)	1620.7	13.9			
FH	(60°-80°)	3201.4	27.4			G2/5000
FVH	(80°-90°)	1278.5	11.0			G5
BL	(0°-30°)	80.6	0.7	B0/110		
BM	(30°-60°)	888.5	7.6	B1/1000		
BH	(60°-80°)	2221.5	19.0	B3/2500		G3/2500
BVH	(80°-90°)	699.5	6.0			G4/750
UL	(90°-100°)	747.8	6.4		U4/1000	
UH	(100°-180°)	623.0	5.3		U4/1000	

BUG Rating: B3-U4-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
2.5°	102.8	99.8	96.8	96.8	95.3	93.8	93.8	90.7	92.3	90.7	90.7
5°	121.0	119.5	116.5	118.0	114.9	113.4	113.4	111.9	110.4	108.9	104.4
7.5°	140.6	140.6	142.2	143.7	139.1	134.6	133.1	130.1	130.1	128.5	125.5
10°	161.8	160.3	154.3	154.3	151.2	148.2	149.7	148.2	148.2	148.2	142.2
12.5°	167.9	166.4	161.8	161.8	161.8	160.3	166.4	164.8	166.4	164.8	155.8
15°	189.0	187.5	186.0	187.5	193.6	205.7	220.8	214.8	216.3	213.2	180.0
17.5°	198.1	202.7	205.7	207.2	213.2	213.2	216.3	214.8	220.8	225.3	205.7
20°	229.9	226.9	229.9	240.5	255.6	257.1	252.6	252.6	255.6	257.1	219.3
22.5°	243.5	242.0	254.1	245.0	245.0	252.6	279.8	270.7	270.7	267.7	235.9
25°	316.1	322.1	334.2	349.4	385.6	396.2	426.5	393.2	397.7	350.9	299.4
27.5°	379.6	384.1	455.2	518.7	547.5	532.3	558.1	496.1	502.1	508.1	437.1
30°	399.3	408.3	511.2	558.1	595.9	565.6	598.9	517.2	512.7	547.5	518.7
32.5°	384.1	393.2	502.1	521.8	561.1	673.0	630.6	499.1	485.5	502.1	536.9
35°	421.9	428.0	493.0	446.1	482.4	940.7	825.7	582.3	555.0	462.8	514.2
37.5°	506.6	506.6	583.8	617.0	644.3	1110.1	1084.4	724.4	703.2	541.4	594.4
40°	614.0	611.0	706.3	729.0	741.1	1005.7	1311.2	924.0	877.2	636.7	774.3
42.5°	679.0	673.0	750.1	774.3	774.3	851.5	1483.6	1125.2	1016.3	742.6	946.7
45°	704.8	710.8	810.6	780.4	803.1	874.1	1668.1	1403.5	1250.7	871.1	1098.0
47.5°	638.2	647.3	791.0	794.0	679.0	698.7	1495.7	1457.9	1332.4	933.1	1146.4
50°	783.4	789.4	840.9	806.1	750.1	884.7	1781.5	1873.8	1819.4	1155.4	1209.9
52.5°	1075.3	1102.5	1150.9	1181.1	1164.5	1486.6	2389.5	2372.9	2327.5	1734.7	1651.5
55°	1392.9	1415.6	1483.6	1666.6	1805.7	2226.2	2971.8	3319.6	3316.6	2817.5	2574.0
57.5°	1681.7	1683.2	1692.3	1917.7	2132.4	2906.7	3892.8	5170.7	5285.7	4500.8	3685.6
60°	1932.8	1928.2	1851.1	2052.3	2313.9	3603.9	5018.0	6708.8	6731.5	5722.7	4275.4
62.5°	2000.8	1987.2	1875.3	2062.8	2286.7	3617.5	5305.3	6525.8	6500.1	5808.9	4352.5
65°	1941.9	1928.2	1786.1	1954.0	2059.8	3287.8	4900.0	5612.3	5570.0	5306.8	4143.8
67.5°	1854.1	1863.2	1722.6	1851.1	1923.7	3083.7	4473.5	4828.9	4816.8	4945.4	3969.9
70°	1727.1	1734.7	1606.1	1764.9	1870.8	2953.6	4065.2	4450.8	4429.7	4618.7	3714.3
72.5°	1731.6	1754.3	1601.6	1721.1	1831.5	2775.2	3880.7	4320.8	4258.8	4287.5	3407.3
75°	1743.7	1774.0	1612.2	1719.5	1822.4	2710.1	3859.5	4331.4	4252.7	4168.0	3290.9
77.5°	1748.3	1792.1	1618.2	1736.2	1825.4	2620.9	3811.1	4278.4	4204.3	4053.1	3153.2
80°	1712.0	1758.9	1592.5	1737.7	1805.7	2444.0	3688.6	4269.4	4213.4	4038.0	3097.3
82.5°	1639.4	1686.3	1542.6	1662.1	1767.9	2264.0	3516.2	4092.4	4089.4	3892.8	2979.3
85°	1480.6	1532.0	1423.1	1533.5	1663.6	2025.0	3168.4	3791.5	3874.6	3715.8	2820.5
87.5°	1327.8	1379.3	1321.8	1383.8	1515.4	1760.4	2722.2	3272.7	3428.5	3296.9	2422.8
90°	1153.9	1206.9	1160.0	1135.8	1241.6	1405.0	2176.3	2545.3	2692.0	2611.8	1783.1
92.5°	924.0	969.4	925.6	869.6	933.1	1031.4	1616.7	1781.5	1816.3	1739.2	1169.0
95°	698.7	732.0	692.7	636.7	644.3	706.3	1114.6	1167.5	1158.5	1066.2	742.6
97.5°	485.5	505.1	479.4	440.1	453.7	493.0	738.0	732.0	732.0	651.8	485.5
100°	337.3	344.8	332.7	314.6	325.2	350.9	496.1	494.5	479.4	440.1	353.9
102.5°	267.7	269.2	257.1	245.0	239.0	263.1	358.4	356.9	359.9	341.8	276.8
105°	235.9	234.4	223.8	213.2	201.1	225.3	284.3	296.4	294.9	279.8	237.4
107.5°	216.3	214.8	204.2	195.1	184.5	205.7	246.5	263.1	261.6	260.1	223.8
110°	201.1	199.6	190.6	181.5	172.4	196.6	231.4	257.1	257.1	257.1	226.9

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CATALOG NUMBER: ARC-CA6-80-740-U-33-X-5-X

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	190.6	190.6	183.0	175.4	167.9	195.1	222.3	252.6	252.6	260.1	237.4
115°	184.5	183.0	176.9	172.4	166.4	196.6	219.3	249.5	251.1	261.6	235.9
117.5°	180.0	178.5	173.9	167.9	164.8	193.6	220.8	255.6	254.1	270.7	231.4
120°	172.4	169.4	163.3	157.3	154.3	178.5	214.8	248.0	245.0	252.6	213.2
122.5°	166.4	157.3	146.7	142.2	142.2	161.8	201.1	223.8	220.8	214.8	192.1
125°	152.7	143.7	134.6	133.1	134.6	151.2	192.1	205.7	207.2	202.7	181.5
127.5°	137.6	131.6	127.0	127.0	130.1	148.2	189.0	198.1	198.1	189.0	172.4
130°	130.1	128.5	125.5	125.5	131.6	149.7	184.5	187.5	187.5	175.4	167.9
132.5°	127.0	124.0	121.0	121.0	127.0	145.2	172.4	178.5	176.9	164.8	158.8
135°	121.0	119.5	116.5	116.5	124.0	142.2	161.8	167.9	166.4	151.2	146.7
137.5°	118.0	114.9	114.9	114.9	122.5	140.6	152.7	157.3	155.8	140.6	136.1
140°	113.4	111.9	108.9	108.9	119.5	136.1	143.7	145.2	143.7	131.6	127.0
142.5°	105.9	104.4	102.8	105.9	116.5	128.5	134.6	134.6	133.1	125.5	119.5
145°	101.3	99.8	98.3	105.9	114.9	121.0	127.0	122.5	122.5	118.0	111.9
147.5°	96.8	95.3	95.3	101.3	108.9	108.9	113.4	111.9	113.4	111.9	105.9
150°	87.7	86.2	86.2	90.7	92.3	92.3	96.8	96.8	96.8	96.8	92.3
152.5°	77.1	75.6	77.1	78.6	78.6	78.6	81.7	83.2	83.2	81.7	80.2
155°	66.5	66.5	66.5	68.1	68.1	66.5	71.1	71.1	71.1	71.1	69.6
157.5°	59.0	59.0	59.0	59.0	59.0	57.5	60.5	60.5	62.0	60.5	60.5
160°	51.4	49.9	49.9	49.9	49.9	48.4	49.9	49.9	49.9	51.4	51.4
162.5°	40.8	39.3	39.3	39.3	39.3	36.3	39.3	37.8	39.3	39.3	40.8
165°	33.3	31.8	31.8	31.8	30.2	28.7	30.2	28.7	28.7	28.7	30.2
167.5°	25.7	25.7	24.2	25.7	24.2	21.2	21.2	19.7	19.7	19.7	19.7
170°	19.7	18.1	16.6	18.1	16.6	13.6	13.6	12.1	12.1	10.6	10.6
172.5°	13.6	12.1	10.6	12.1	10.6	7.6	7.6	4.5	4.5	4.5	4.5
175°	12.1	10.6	9.1	10.6	9.1	6.0	4.5	3.0	3.0	3.0	3.0
177.5°	12.1	10.6	9.1	10.6	9.1	6.0	4.5	3.0	3.0	3.0	3.0
180°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
2.5°	90.7	89.2	87.7	90.7	89.2	90.7	92.3	93.8	93.8	92.3	92.3
5°	104.4	102.8	99.8	98.3	95.3	95.3	95.3	98.3	98.3	96.8	98.3
7.5°	124.0	121.0	116.5	113.4	108.9	108.9	107.4	110.4	111.9	108.9	110.4
10°	139.1	137.6	131.6	127.0	122.5	121.0	121.0	122.5	122.5	121.0	121.0
12.5°	152.7	149.7	143.7	139.1	133.1	131.6	131.6	133.1	133.1	131.6	131.6
15°	172.4	163.3	157.3	152.7	146.7	145.2	143.7	145.2	146.7	143.7	143.7
17.5°	199.6	189.0	175.4	163.3	157.3	160.3	161.8	163.3	161.8	157.3	157.3
20°	214.8	208.7	190.6	181.5	173.9	173.9	173.9	173.9	173.9	172.4	173.9
22.5°	225.3	216.3	193.6	187.5	183.0	186.0	189.0	190.6	190.6	189.0	189.0
25°	273.7	240.5	217.8	213.2	207.2	208.7	205.7	205.7	207.2	205.7	208.7
27.5°	376.6	322.1	270.7	252.6	248.0	248.0	251.1	251.1	251.1	251.1	249.5
30°	452.2	388.7	304.0	279.8	276.8	290.4	297.9	304.0	301.0	296.4	296.4
32.5°	464.3	394.7	310.0	301.0	308.5	319.1	326.7	331.2	335.7	334.2	332.7
35°	438.6	364.5	305.5	317.6	323.6	329.7	331.2	328.2	341.8	347.8	349.4
37.5°	490.0	408.3	355.4	364.5	356.9	350.9	353.9	355.4	373.6	382.6	391.7
40°	626.1	493.0	403.8	399.3	394.7	408.3	426.5	435.6	434.0	428.0	429.5
42.5°	757.7	576.2	455.2	453.7	452.2	476.4	505.1	503.6	490.0	479.4	479.4
45°	892.3	656.4	536.9	538.4	535.4	544.4	552.0	546.0	547.5	550.5	553.5
47.5°	975.5	729.0	588.3	583.8	564.1	582.3	603.4	589.8	585.3	577.7	580.7
50°	995.1	747.1	618.6	651.8	633.7	620.1	597.4	588.3	604.9	617.0	626.1
52.5°	1293.1	922.5	772.8	825.7	801.5	753.2	748.6	733.5	751.6	753.2	763.7
55°	2167.2	1479.1	1064.7	1116.1	1117.6	1101.0	1176.6	1134.3	1096.5	1079.8	1073.8
57.5°	3416.4	2286.7	1377.8	1442.8	1504.8	1563.8	1666.6	1580.4	1471.5	1457.9	1473.0
60°	4375.2	3228.9	1757.4	1940.3	2023.5	2026.5	2040.2	1955.5	1888.9	1895.0	1916.1
62.5°	4580.9	4015.3	2238.3	2313.9	2321.5	2265.5	2289.7	2344.1	2250.4	2176.3	2195.9
65°	4443.3	4326.8	2395.6	2199.0	2186.9	2195.9	2360.8	2512.0	2323.0	2135.4	2135.4
67.5°	4177.1	4089.4	2235.3	1978.2	2011.4	2114.3	2323.0	2398.6	2197.4	1997.8	1997.8
70°	3892.8	3717.4	2055.3	1802.7	1884.4	2003.9	2140.0	2146.0	2028.1	1885.9	1876.8
72.5°	3585.8	3427.0	1978.2	1751.3	1789.1	1810.3	1884.4	1931.3	1917.7	1825.4	1823.9
75°	3495.0	3366.5	1976.6	1727.1	1704.4	1696.9	1748.3	1849.6	1896.5	1842.0	1845.1
77.5°	3357.4	3280.3	1884.4	1625.8	1601.6	1601.6	1628.8	1710.5	1781.5	1758.9	1766.4
80°	3262.1	3145.7	1743.7	1515.4	1482.1	1486.6	1489.7	1545.6	1612.2	1615.2	1615.2
82.5°	3079.1	2859.9	1530.5	1350.5	1327.8	1333.9	1323.3	1355.1	1373.2	1395.9	1391.4
85°	2778.2	2468.2	1293.1	1170.6	1134.3	1122.2	1113.1	1114.6	1125.2	1120.7	1102.5
87.5°	2327.5	1957.0	1031.4	960.3	918.0	887.7	875.7	860.5	859.0	842.4	848.4
90°	1718.0	1343.0	765.2	739.5	709.3	677.5	660.9	645.8	633.7	617.0	611.0
92.5°	1120.7	865.1	559.6	546.0	526.3	508.1	500.6	493.0	490.0	476.4	480.9
95°	700.2	585.3	420.4	405.3	394.7	390.2	391.7	393.2	390.2	375.1	379.6
97.5°	467.3	423.5	328.2	317.6	307.0	305.5	307.0	310.0	311.5	301.0	304.0
100°	344.8	325.2	269.2	261.6	252.6	249.5	251.1	254.1	255.6	246.5	248.0
102.5°	273.7	264.7	232.9	229.9	219.3	216.3	219.3	220.8	222.3	216.3	216.3
105°	240.5	240.5	214.8	213.2	205.7	202.7	204.2	205.7	207.2	201.1	201.1
107.5°	231.4	232.9	207.2	208.7	204.2	202.7	205.7	208.7	207.2	202.7	201.1
110°	239.0	242.0	207.2	211.7	213.2	216.3	222.3	223.8	223.8	220.8	222.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	246.5	251.1	204.2	214.8	225.3	232.9	243.5	249.5	246.5	245.0	246.5
115°	240.5	243.5	190.6	207.2	226.9	237.4	240.5	240.5	232.9	232.9	234.4
117.5°	232.9	239.0	176.9	190.6	204.2	213.2	211.7	207.2	198.1	195.1	204.2
120°	216.3	234.4	169.4	172.4	173.9	176.9	172.4	167.9	160.3	158.8	164.8
122.5°	199.6	216.3	155.8	152.7	151.2	151.2	149.7	148.2	143.7	145.2	151.2
125°	186.0	195.1	142.2	137.6	136.1	137.6	137.6	137.6	134.6	131.6	131.6
127.5°	175.4	178.5	134.6	128.5	127.0	127.0	127.0	128.5	127.0	122.5	122.5
130°	169.4	167.9	130.1	119.5	118.0	119.5	119.5	121.0	118.0	114.9	114.9
132.5°	157.3	154.3	124.0	113.4	111.9	113.4	113.4	113.4	110.4	107.4	107.4
135°	143.7	140.6	116.5	105.9	104.4	105.9	105.9	107.4	104.4	101.3	101.3
137.5°	133.1	130.1	108.9	99.8	98.3	98.3	99.8	99.8	98.3	95.3	95.3
140°	124.0	121.0	101.3	93.8	90.7	92.3	92.3	92.3	90.7	87.7	87.7
142.5°	116.5	114.9	93.8	86.2	83.2	84.7	84.7	86.2	83.2	80.2	80.2
145°	110.4	107.4	87.7	78.6	77.1	77.1	77.1	78.6	75.6	72.6	72.6
147.5°	104.4	101.3	80.2	71.1	69.6	69.6	69.6	69.6	68.1	65.0	63.5
150°	92.3	90.7	74.1	65.0	62.0	62.0	62.0	60.5	57.5	54.4	54.4
152.5°	78.6	77.1	65.0	57.5	54.4	54.4	52.9	52.9	49.9	48.4	46.9
155°	68.1	68.1	59.0	51.4	48.4	46.9	45.4	45.4	43.9	42.3	40.8
157.5°	60.5	59.0	52.9	46.9	40.8	40.8	39.3	39.3	37.8	36.3	34.8
160°	51.4	51.4	45.4	39.3	34.8	33.3	33.3	31.8	30.2	28.7	28.7
162.5°	40.8	40.8	36.3	31.8	27.2	27.2	25.7	25.7	24.2	22.7	21.2
165°	28.7	28.7	27.2	24.2	21.2	19.7	19.7	19.7	18.1	16.6	16.6
167.5°	19.7	19.7	18.1	16.6	15.1	13.6	15.1	15.1	13.6	12.1	12.1
170°	10.6	10.6	9.1	9.1	7.6	7.6	9.1	10.6	9.1	7.6	6.0
172.5°	4.5	4.5	4.5	4.5	3.0	4.5	6.0	7.6	6.0	4.5	4.5
175°	3.0	3.0	4.5	4.5	3.0	4.5	6.0	7.6	6.0	4.5	4.5
177.5°	3.0	3.0	4.5	4.5	3.0	4.5	6.0	7.6	6.0	4.5	4.5
180°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0

(END OF REPORT)