

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: P588532

Luminaire Tested: **ARC-CA6-80-750-U-33-X-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588532
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-CA6-80-750-U-33-X-5-X
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR
Light Source: (6) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11879 lumens
Efficiency: N/A
Efficacy: 140.7 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



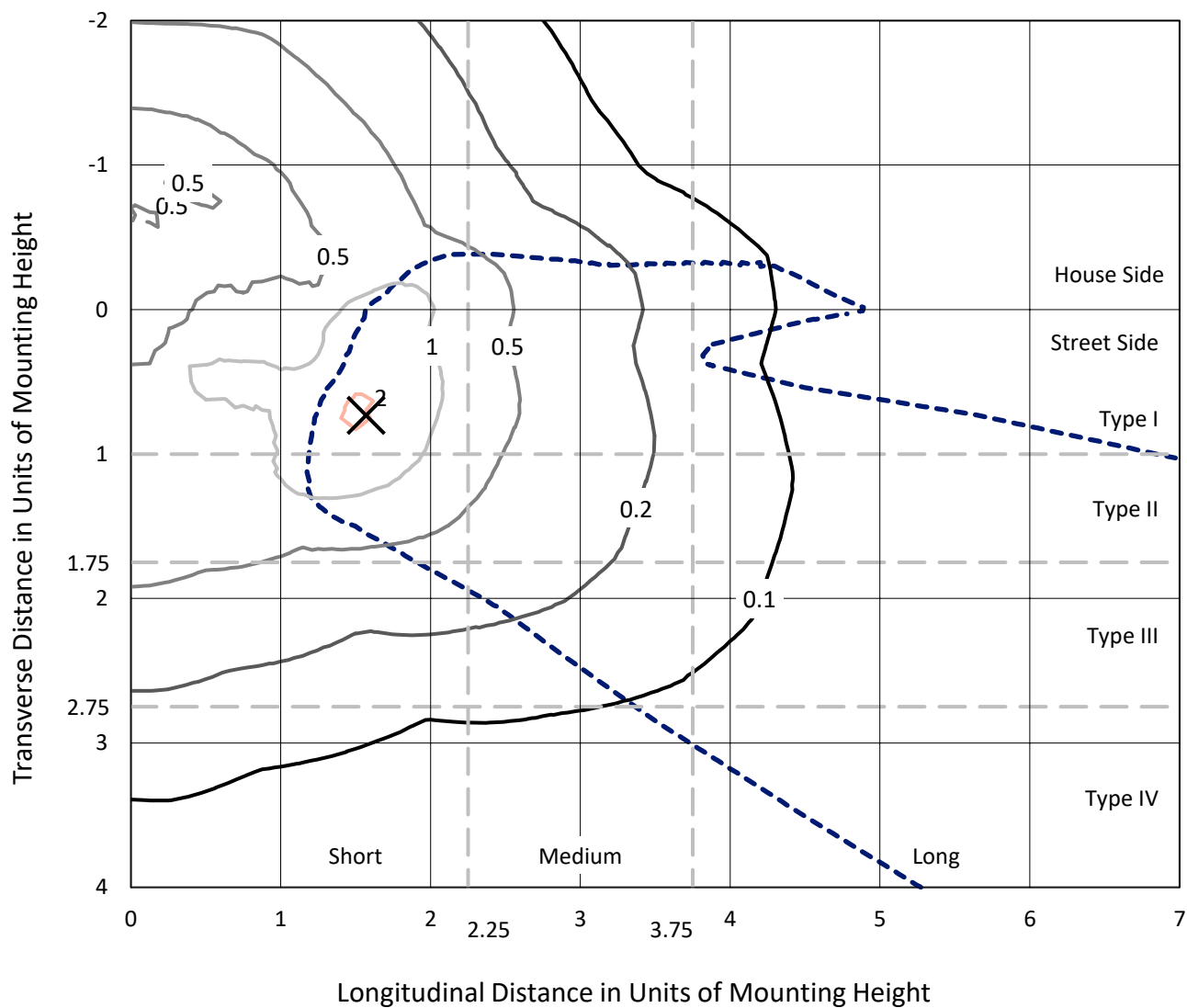
REPORT NUMBER: P588532

CATALOG NUMBER: ARC-CA6-80-750-U-33-X-5-X

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

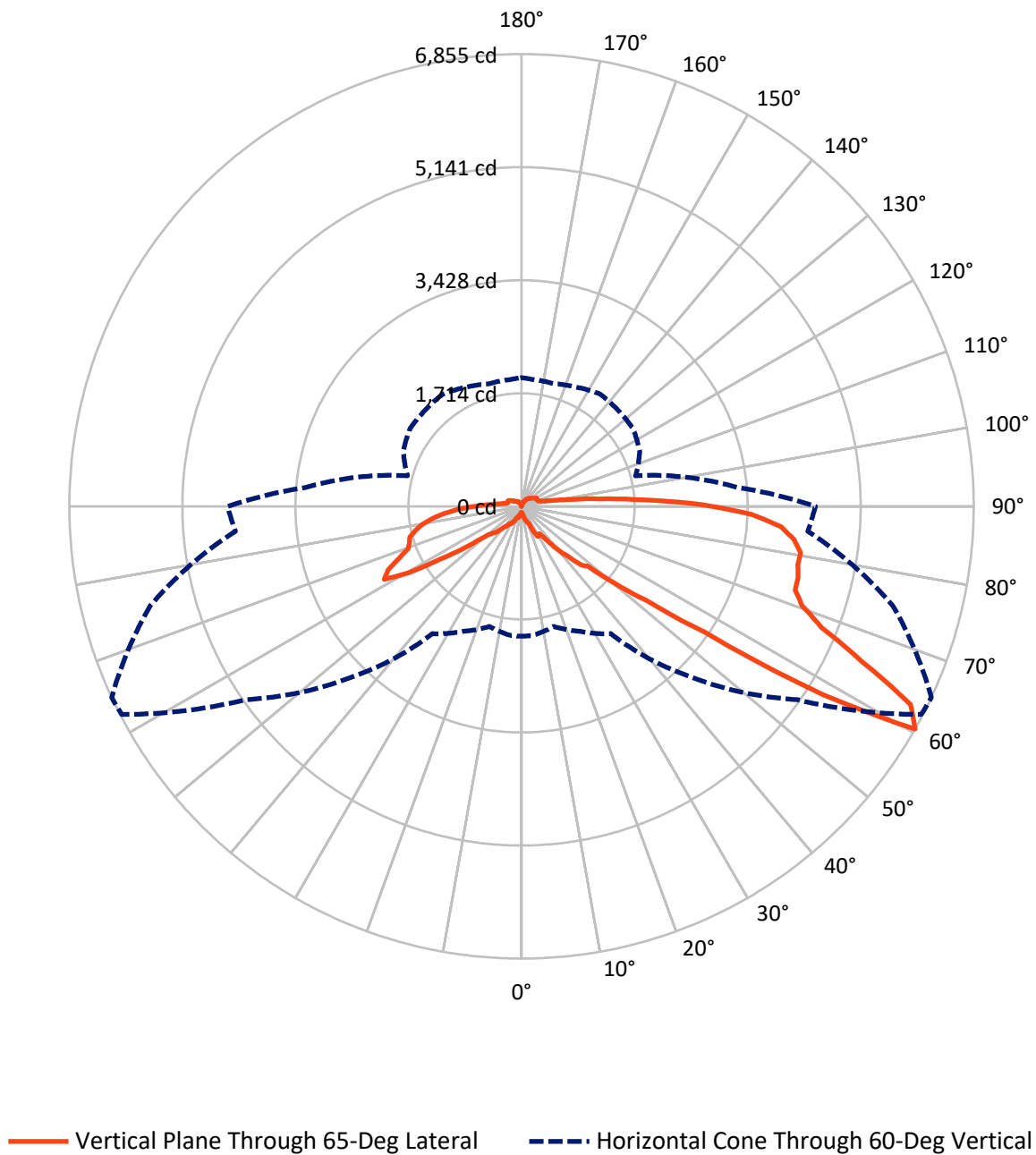


Based on 20 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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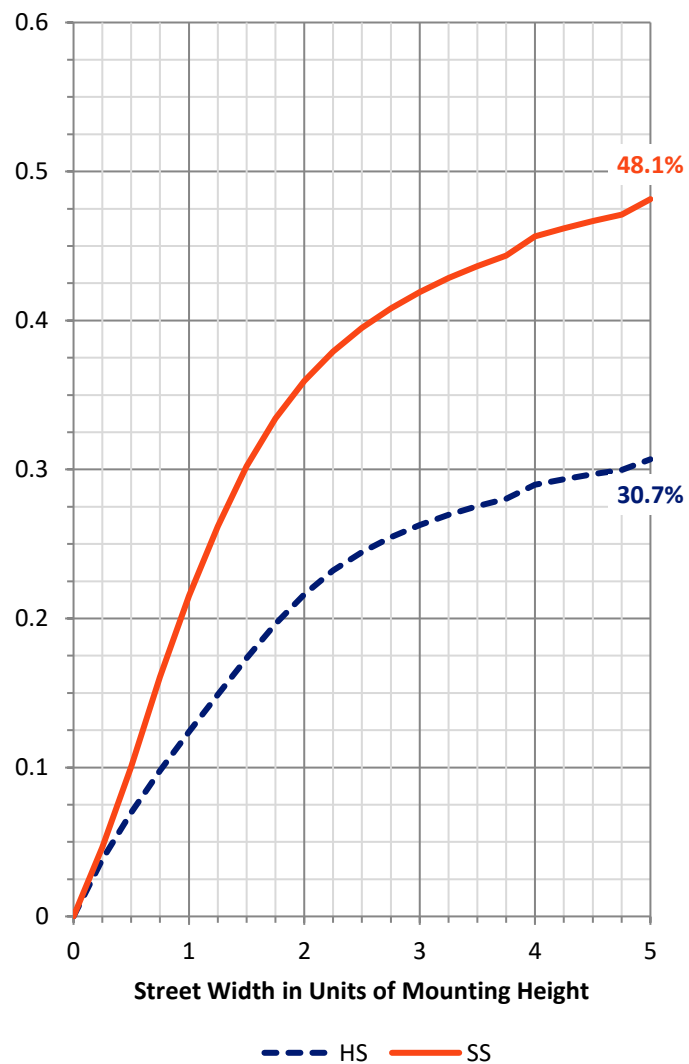
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3961.4	634.4	4595.7
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	6337.7	945.6	7283.3
	% Fixture	53.4	8.0	61.3
Total	Lumens	10299.0	1580.0	11879.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.4	0.1
10°-20°	50.7	0.4
20°-30°	145.1	1.2
30°-40°	312.4	2.6
40°-50°	591.2	5.0
50°-60°	1651.6	13.9
60°-70°	2944.5	24.8
70°-80°	2577.9	21.7
80°-90°	2014.2	17.0
90°-100°	761.5	6.4
100°-110°	261.9	2.2
110°-120°	214.2	1.8
120°-130°	143.9	1.2
130°-140°	98.7	0.8
140°-150°	62.1	0.5
150°-160°	28.8	0.2
160°-170°	8.1	0.1
170°-180°	0.7	0.0
0°-90°	10299.0	86.7
0°-180°	11879.0	100.0

Coefficient of Utilization



REPORT NUMBER: P588532

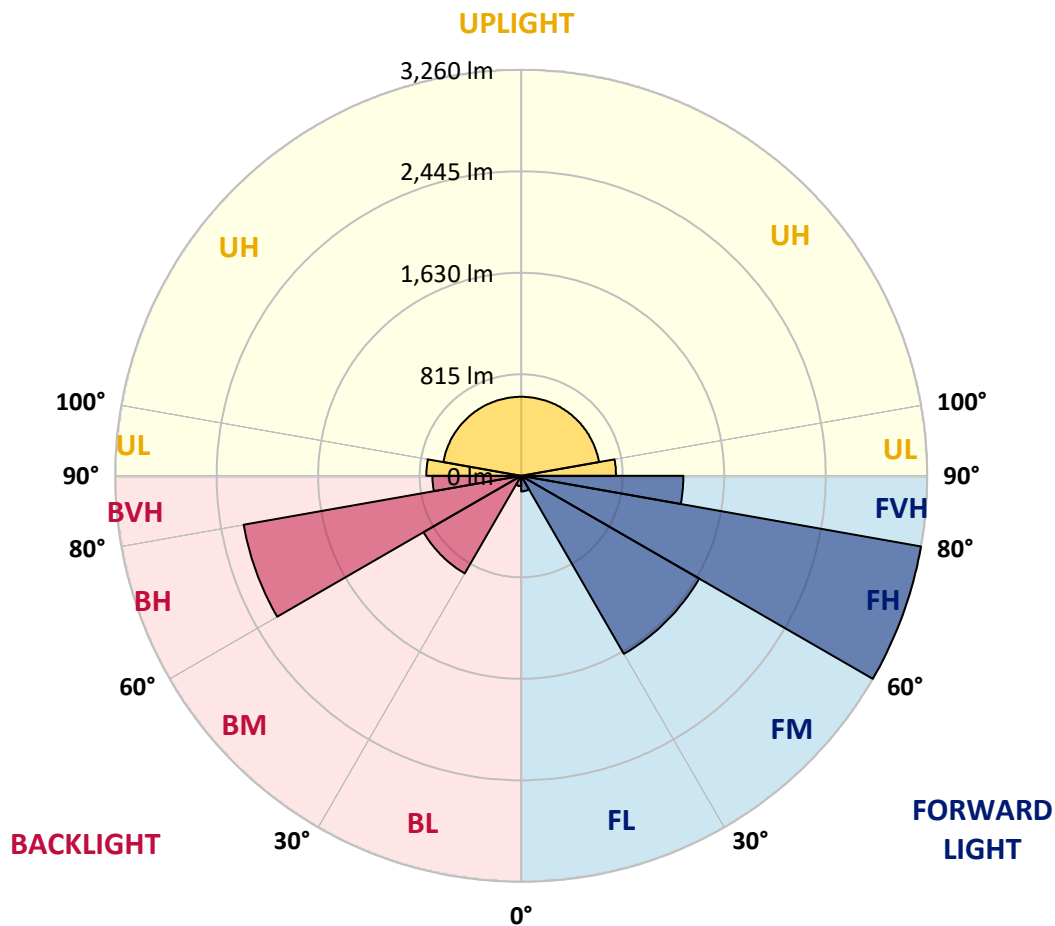
CATALOG NUMBER: ARC-CA6-80-750-U-33-X-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	125.2	1.1			
FM	(30°-60°)	1650.5	13.9			
FH	(60°-80°)	3260.1	27.4			G2/5000
FVH	(80°-90°)	1301.9	11.0			G5
BL	(0°-30°)	82.1	0.7	B0/110		
BM	(30°-60°)	904.8	7.6	B1/1000		
BH	(60°-80°)	2262.2	19.0	B3/2500		G3/2500
BVH	(80°-90°)	712.3	6.0			G4/750
UL	(90°-100°)	761.5	6.4		U4/1000	
UH	(100°-180°)	634.4	5.3		U4/1000	

BUG Rating: B3-U4-G5

Type III Short



REPORT NUMBER: P588532

CATALOG NUMBER: ARC-CA6-80-750-U-33-X-5-X

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
2.5°	104.7	101.6	98.6	98.6	97.0	95.5	95.5	92.4	93.9	92.4	92.4
5°	123.2	121.7	118.6	120.1	117.0	115.5	115.5	114.0	112.4	110.9	106.3
7.5°	143.2	143.2	144.8	146.3	141.7	137.1	135.5	132.4	132.4	130.9	127.8
10°	164.8	163.2	157.1	157.1	154.0	150.9	152.5	150.9	150.9	150.9	144.8
12.5°	171.0	169.4	164.8	164.8	164.8	163.2	169.4	167.9	169.4	167.9	158.6
15°	192.5	191.0	189.4	191.0	197.1	209.5	224.9	218.7	220.2	217.2	183.3
17.5°	201.8	206.4	209.5	211.0	217.2	217.2	220.2	218.7	224.9	229.5	209.5
20°	234.1	231.0	234.1	244.9	260.3	261.8	257.2	257.2	260.3	261.8	223.3
22.5°	248.0	246.4	258.7	249.5	249.5	257.2	284.9	275.7	275.7	272.6	240.3
25°	321.9	328.0	340.4	355.8	392.7	403.5	434.3	400.4	405.0	357.3	304.9
27.5°	386.6	391.2	463.6	528.3	557.5	542.1	568.3	505.2	511.3	517.5	445.1
30°	406.6	415.8	520.6	568.3	606.8	576.0	609.9	526.7	522.1	557.5	528.3
32.5°	391.2	400.4	511.3	531.3	571.4	685.3	642.2	508.2	494.4	511.3	546.7
35°	429.7	435.8	502.1	454.3	491.3	957.9	840.9	592.9	565.2	471.3	523.6
37.5°	515.9	515.9	594.5	628.4	656.1	1130.4	1104.2	737.7	716.1	551.4	605.3
40°	625.3	622.2	719.2	742.3	754.6	1024.2	1335.3	941.0	893.3	648.4	788.5
42.5°	691.5	685.3	763.9	788.5	788.5	867.1	1510.8	1145.8	1034.9	756.2	964.1
45°	717.7	723.8	825.5	794.7	817.8	890.2	1698.7	1429.2	1273.7	887.1	1118.1
47.5°	649.9	659.2	805.5	808.5	691.5	711.5	1523.2	1484.7	1356.8	950.2	1167.4
50°	797.8	803.9	856.3	820.9	763.9	901.0	1814.2	1908.2	1852.7	1176.6	1232.1
52.5°	1095.0	1122.7	1172.0	1202.8	1185.9	1513.9	2433.3	2416.4	2370.2	1766.5	1681.8
55°	1418.4	1441.5	1510.8	1697.2	1838.9	2267.0	3026.3	3380.5	3377.4	2869.2	2621.2
57.5°	1712.6	1714.1	1723.4	1952.8	2171.5	2960.1	3964.2	5265.6	5382.6	4583.3	3753.2
60°	1968.2	1963.6	1885.1	2089.9	2356.3	3670.0	5110.0	6831.9	6855.0	5827.7	4353.8
62.5°	2037.5	2023.7	1909.7	2100.7	2328.6	3683.9	5402.7	6645.5	6619.3	5915.5	4432.4
65°	1977.5	1963.6	1818.9	1989.8	2097.6	3348.2	4989.9	5715.3	5672.2	5404.2	4219.9
67.5°	1888.2	1897.4	1754.2	1885.1	1959.0	3140.3	4555.6	4917.5	4905.2	5036.1	4042.7
70°	1758.8	1766.5	1635.6	1797.3	1905.1	3007.8	4139.8	4532.5	4510.9	4703.4	3782.5
72.5°	1763.4	1786.5	1631.0	1752.6	1865.1	2826.1	3951.9	4400.0	4336.9	4366.2	3469.8
75°	1775.7	1806.5	1641.7	1751.1	1855.8	2759.8	3930.3	4410.8	4330.7	4244.5	3351.2
77.5°	1780.3	1825.0	1647.9	1768.0	1858.9	2669.0	3881.0	4356.9	4281.5	4127.5	3211.1
80°	1743.4	1791.1	1621.7	1769.6	1838.9	2488.8	3756.3	4347.7	4290.7	4112.1	3154.1
82.5°	1669.5	1717.2	1570.9	1692.6	1800.4	2305.5	3580.7	4167.5	4164.4	3964.2	3034.0
85°	1507.8	1560.1	1449.2	1561.7	1694.1	2062.2	3226.5	3861.0	3945.7	3784.0	2872.3
87.5°	1352.2	1404.6	1346.0	1409.2	1543.2	1792.7	2772.2	3332.8	3491.4	3357.4	2467.2
90°	1175.1	1229.0	1181.3	1156.6	1264.4	1430.7	2216.2	2592.0	2741.4	2659.7	1815.8
92.5°	941.0	987.2	942.5	885.6	950.2	1050.3	1646.4	1814.2	1849.7	1771.1	1190.5
95°	711.5	745.4	705.4	648.4	656.1	719.2	1135.0	1189.0	1179.7	1085.8	756.2
97.5°	494.4	514.4	488.2	448.2	462.0	502.1	751.6	745.4	745.4	663.8	494.4
100°	343.4	351.1	338.8	320.3	331.1	357.3	505.2	503.6	488.2	448.2	360.4
102.5°	272.6	274.1	261.8	249.5	243.3	268.0	365.0	363.5	366.5	348.1	281.8
105°	240.3	238.7	227.9	217.2	204.8	229.5	289.5	301.9	300.3	284.9	241.8
107.5°	220.2	218.7	207.9	198.7	187.9	209.5	251.0	268.0	266.4	264.9	227.9
110°	204.8	203.3	194.1	184.8	175.6	200.2	235.6	261.8	261.8	261.8	231.0

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CATALOG NUMBER: ARC-CA6-80-750-U-33-X-5-X

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	194.1	194.1	186.4	178.7	171.0	198.7	226.4	257.2	257.2	264.9	241.8
115°	187.9	186.4	180.2	175.6	169.4	200.2	223.3	254.1	255.7	266.4	240.3
117.5°	183.3	181.7	177.1	171.0	167.9	197.1	224.9	260.3	258.7	275.7	235.6
120°	175.6	172.5	166.3	160.2	157.1	181.7	218.7	252.6	249.5	257.2	217.2
122.5°	169.4	160.2	149.4	144.8	144.8	164.8	204.8	227.9	224.9	218.7	195.6
125°	155.5	146.3	137.1	135.5	137.1	154.0	195.6	209.5	211.0	206.4	184.8
127.5°	140.1	134.0	129.4	129.4	132.4	150.9	192.5	201.8	201.8	192.5	175.6
130°	132.4	130.9	127.8	127.8	134.0	152.5	187.9	191.0	191.0	178.7	171.0
132.5°	129.4	126.3	123.2	123.2	129.4	147.8	175.6	181.7	180.2	167.9	161.7
135°	123.2	121.7	118.6	118.6	126.3	144.8	164.8	171.0	169.4	154.0	149.4
137.5°	120.1	117.0	117.0	117.0	124.7	143.2	155.5	160.2	158.6	143.2	138.6
140°	115.5	114.0	110.9	110.9	121.7	138.6	146.3	147.8	146.3	134.0	129.4
142.5°	107.8	106.3	104.7	107.8	118.6	130.9	137.1	137.1	135.5	127.8	121.7
145°	103.2	101.6	100.1	107.8	117.0	123.2	129.4	124.7	124.7	120.1	114.0
147.5°	98.6	97.0	97.0	103.2	110.9	110.9	115.5	114.0	115.5	114.0	107.8
150°	89.3	87.8	87.8	92.4	93.9	93.9	98.6	98.6	98.6	98.6	93.9
152.5°	78.5	77.0	78.5	80.1	80.1	80.1	83.2	84.7	84.7	83.2	81.6
155°	67.8	67.8	67.8	69.3	69.3	67.8	72.4	72.4	72.4	72.4	70.8
157.5°	60.1	60.1	60.1	60.1	60.1	58.5	61.6	61.6	63.1	61.6	61.6
160°	52.4	50.8	50.8	50.8	50.8	49.3	50.8	50.8	50.8	52.4	52.4
162.5°	41.6	40.0	40.0	40.0	40.0	37.0	40.0	38.5	40.0	40.0	41.6
165°	33.9	32.3	32.3	32.3	30.8	29.3	30.8	29.3	29.3	29.3	30.8
167.5°	26.2	26.2	24.6	26.2	24.6	21.6	21.6	20.0	20.0	20.0	20.0
170°	20.0	18.5	16.9	18.5	16.9	13.9	13.9	12.3	12.3	10.8	10.8
172.5°	13.9	12.3	10.8	12.3	10.8	7.7	7.7	4.6	4.6	4.6	4.6
175°	12.3	10.8	9.2	10.8	9.2	6.2	4.6	3.1	3.1	3.1	3.1
177.5°	12.3	10.8	9.2	10.8	9.2	6.2	4.6	3.1	3.1	3.1	3.1
180°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
2.5°	92.4	90.9	89.3	92.4	90.9	92.4	93.9	95.5	95.5	93.9	93.9
5°	106.3	104.7	101.6	100.1	97.0	97.0	97.0	100.1	100.1	98.6	100.1
7.5°	126.3	123.2	118.6	115.5	110.9	110.9	109.3	112.4	114.0	110.9	112.4
10°	141.7	140.1	134.0	129.4	124.7	123.2	123.2	124.7	124.7	123.2	123.2
12.5°	155.5	152.5	146.3	141.7	135.5	134.0	134.0	135.5	135.5	134.0	134.0
15°	175.6	166.3	160.2	155.5	149.4	147.8	146.3	147.8	149.4	146.3	146.3
17.5°	203.3	192.5	178.7	166.3	160.2	163.2	164.8	166.3	164.8	160.2	160.2
20°	218.7	212.5	194.1	184.8	177.1	177.1	177.1	177.1	177.1	175.6	177.1
22.5°	229.5	220.2	197.1	191.0	186.4	189.4	192.5	194.1	194.1	192.5	192.5
25°	278.8	244.9	221.8	217.2	211.0	212.5	209.5	209.5	211.0	209.5	212.5
27.5°	383.5	328.0	275.7	257.2	252.6	252.6	255.7	255.7	255.7	255.7	254.1
30°	460.5	395.8	309.6	284.9	281.8	295.7	303.4	309.6	306.5	301.9	301.9
32.5°	472.8	402.0	315.7	306.5	314.2	325.0	332.7	337.3	341.9	340.4	338.8
35°	446.6	371.2	311.1	323.4	329.6	335.7	337.3	334.2	348.1	354.2	355.8
37.5°	499.0	415.8	361.9	371.2	363.5	357.3	360.4	361.9	380.4	389.6	398.9
40°	637.6	502.1	411.2	406.6	402.0	415.8	434.3	443.5	442.0	435.8	437.4
42.5°	771.6	586.8	463.6	462.0	460.5	485.1	514.4	512.9	499.0	488.2	488.2
45°	908.7	668.4	546.7	548.3	545.2	554.4	562.1	556.0	557.5	560.6	563.7
47.5°	993.4	742.3	599.1	594.5	574.5	592.9	614.5	600.6	596.0	588.3	591.4
50°	1013.4	760.8	629.9	663.8	645.3	631.4	608.3	599.1	616.0	628.4	637.6
52.5°	1316.8	939.5	787.0	840.9	816.2	767.0	762.3	746.9	765.4	767.0	777.7
55°	2207.0	1506.2	1084.2	1136.6	1138.1	1121.2	1198.2	1155.1	1116.6	1099.6	1093.5
57.5°	3479.1	2328.6	1403.0	1469.2	1532.4	1592.5	1697.2	1609.4	1498.5	1484.7	1500.1
60°	4455.5	3288.1	1789.6	1975.9	2060.6	2063.7	2077.6	1991.3	1923.6	1929.7	1951.3
62.5°	4664.9	4089.0	2279.3	2356.3	2364.0	2307.1	2331.7	2387.1	2291.7	2216.2	2236.2
65°	4524.8	4406.2	2439.5	2239.3	2227.0	2236.2	2404.1	2558.1	2365.6	2174.6	2174.6
67.5°	4253.7	4164.4	2276.3	2014.4	2048.3	2153.1	2365.6	2442.6	2237.8	2034.5	2034.5
70°	3964.2	3785.6	2093.0	1835.8	1919.0	2040.6	2179.2	2185.4	2065.3	1920.5	1911.3
72.5°	3651.6	3489.9	2014.4	1783.4	1821.9	1843.5	1919.0	1966.7	1952.8	1858.9	1857.4
75°	3559.2	3428.2	2012.9	1758.8	1735.7	1728.0	1780.3	1883.5	1931.3	1875.8	1878.9
77.5°	3419.0	3340.5	1919.0	1655.6	1631.0	1631.0	1658.7	1741.8	1814.2	1791.1	1798.8
80°	3322.0	3203.4	1775.7	1543.2	1509.3	1513.9	1517.0	1574.0	1641.7	1644.8	1644.8
82.5°	3135.6	2912.3	1558.6	1375.3	1352.2	1358.4	1347.6	1379.9	1398.4	1421.5	1416.9
85°	2829.2	2513.4	1316.8	1192.0	1155.1	1142.7	1133.5	1135.0	1145.8	1141.2	1122.7
87.5°	2370.2	1992.9	1050.3	978.0	934.8	904.0	891.7	876.3	874.8	857.8	864.0
90°	1749.5	1367.6	779.3	753.1	722.3	690.0	673.0	657.6	645.3	628.4	622.2
92.5°	1141.2	880.9	569.8	556.0	536.0	517.5	509.8	502.1	499.0	485.1	489.7
95°	713.1	596.0	428.1	412.7	402.0	397.3	398.9	400.4	397.3	381.9	386.6
97.5°	475.9	431.2	334.2	323.4	312.6	311.1	312.6	315.7	317.3	306.5	309.6
100°	351.1	331.1	274.1	266.4	257.2	254.1	255.7	258.7	260.3	251.0	252.6
102.5°	278.8	269.5	237.2	234.1	223.3	220.2	223.3	224.9	226.4	220.2	220.2
105°	244.9	244.9	218.7	217.2	209.5	206.4	207.9	209.5	211.0	204.8	204.8
107.5°	235.6	237.2	211.0	212.5	207.9	206.4	209.5	212.5	211.0	206.4	204.8
110°	243.3	246.4	211.0	215.6	217.2	220.2	226.4	227.9	227.9	224.9	226.4

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	251.0	255.7	207.9	218.7	229.5	237.2	248.0	254.1	251.0	249.5	251.0
115°	244.9	248.0	194.1	211.0	231.0	241.8	244.9	244.9	237.2	237.2	238.7
117.5°	237.2	243.3	180.2	194.1	207.9	217.2	215.6	211.0	201.8	198.7	207.9
120°	220.2	238.7	172.5	175.6	177.1	180.2	175.6	171.0	163.2	161.7	167.9
122.5°	203.3	220.2	158.6	155.5	154.0	154.0	152.5	150.9	146.3	147.8	154.0
125°	189.4	198.7	144.8	140.1	138.6	140.1	140.1	140.1	137.1	134.0	134.0
127.5°	178.7	181.7	137.1	130.9	129.4	129.4	129.4	130.9	129.4	124.7	124.7
130°	172.5	171.0	132.4	121.7	120.1	121.7	121.7	123.2	120.1	117.0	117.0
132.5°	160.2	157.1	126.3	115.5	114.0	115.5	115.5	115.5	112.4	109.3	109.3
135°	146.3	143.2	118.6	107.8	106.3	107.8	107.8	109.3	106.3	103.2	103.2
137.5°	135.5	132.4	110.9	101.6	100.1	100.1	101.6	101.6	100.1	97.0	97.0
140°	126.3	123.2	103.2	95.5	92.4	93.9	93.9	93.9	92.4	89.3	89.3
142.5°	118.6	117.0	95.5	87.8	84.7	86.2	86.2	87.8	84.7	81.6	81.6
145°	112.4	109.3	89.3	80.1	78.5	78.5	78.5	80.1	77.0	73.9	73.9
147.5°	106.3	103.2	81.6	72.4	70.8	70.8	70.8	70.8	69.3	66.2	64.7
150°	93.9	92.4	75.5	66.2	63.1	63.1	63.1	61.6	58.5	55.4	55.4
152.5°	80.1	78.5	66.2	58.5	55.4	55.4	53.9	53.9	50.8	49.3	47.7
155°	69.3	69.3	60.1	52.4	49.3	47.7	46.2	46.2	44.7	43.1	41.6
157.5°	61.6	60.1	53.9	47.7	41.6	41.6	40.0	40.0	38.5	37.0	35.4
160°	52.4	52.4	46.2	40.0	35.4	33.9	33.9	32.3	30.8	29.3	29.3
162.5°	41.6	41.6	37.0	32.3	27.7	27.7	26.2	26.2	24.6	23.1	21.6
165°	29.3	29.3	27.7	24.6	21.6	20.0	20.0	20.0	18.5	16.9	16.9
167.5°	20.0	20.0	18.5	16.9	15.4	13.9	15.4	15.4	13.9	12.3	12.3
170°	10.8	10.8	9.2	9.2	7.7	7.7	9.2	10.8	9.2	7.7	6.2
172.5°	4.6	4.6	4.6	4.6	3.1	4.6	6.2	7.7	6.2	4.6	4.6
175°	3.1	3.1	4.6	4.6	3.1	4.6	6.2	7.7	6.2	4.6	4.6
177.5°	3.1	3.1	4.6	4.6	3.1	4.6	6.2	7.7	6.2	4.6	4.6
180°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2

(END OF REPORT)