

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: P1210334

Luminaire Tested: **ARCH2-90-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-90-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

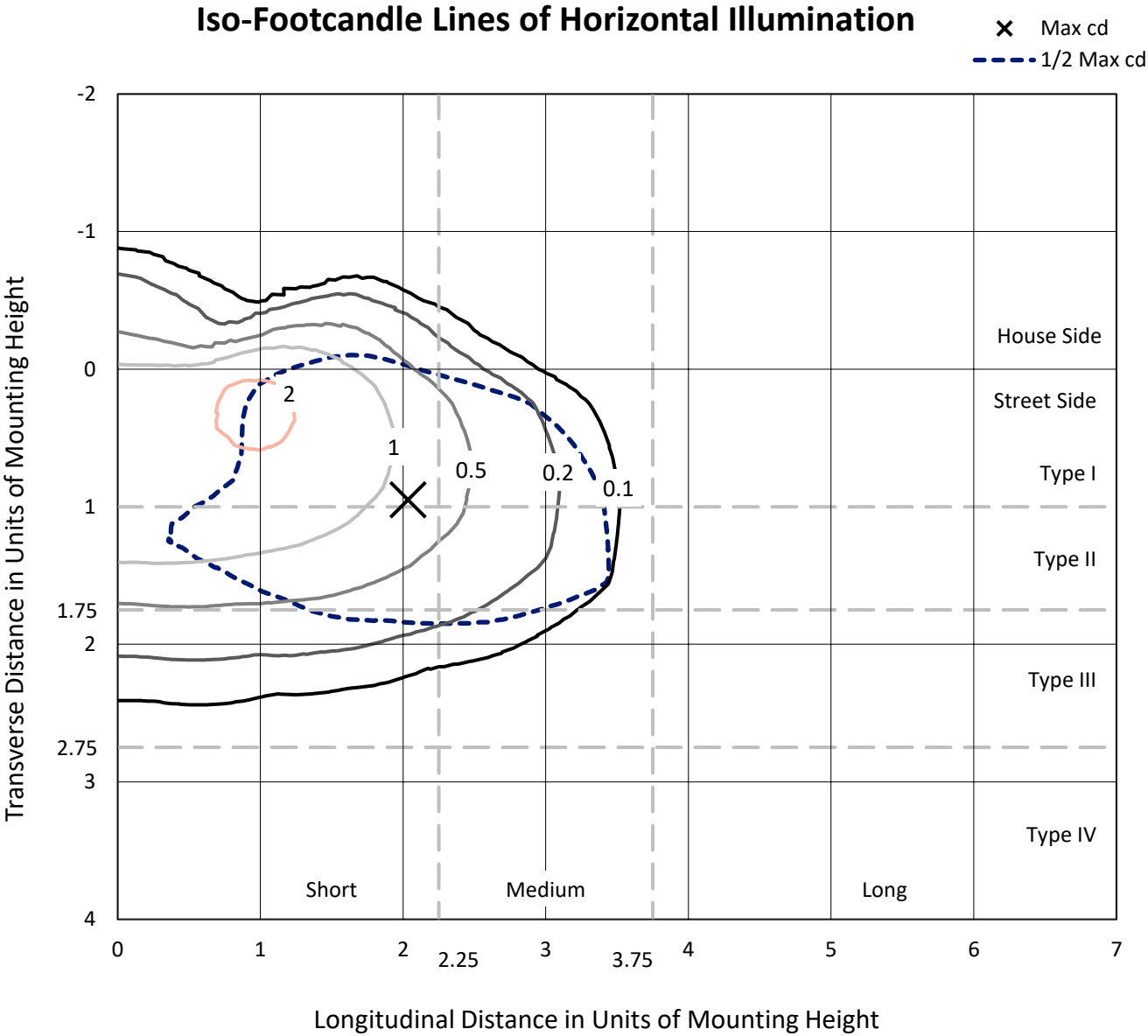
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8533 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 93.7
Input Voltage (V): NR
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: 24 FT



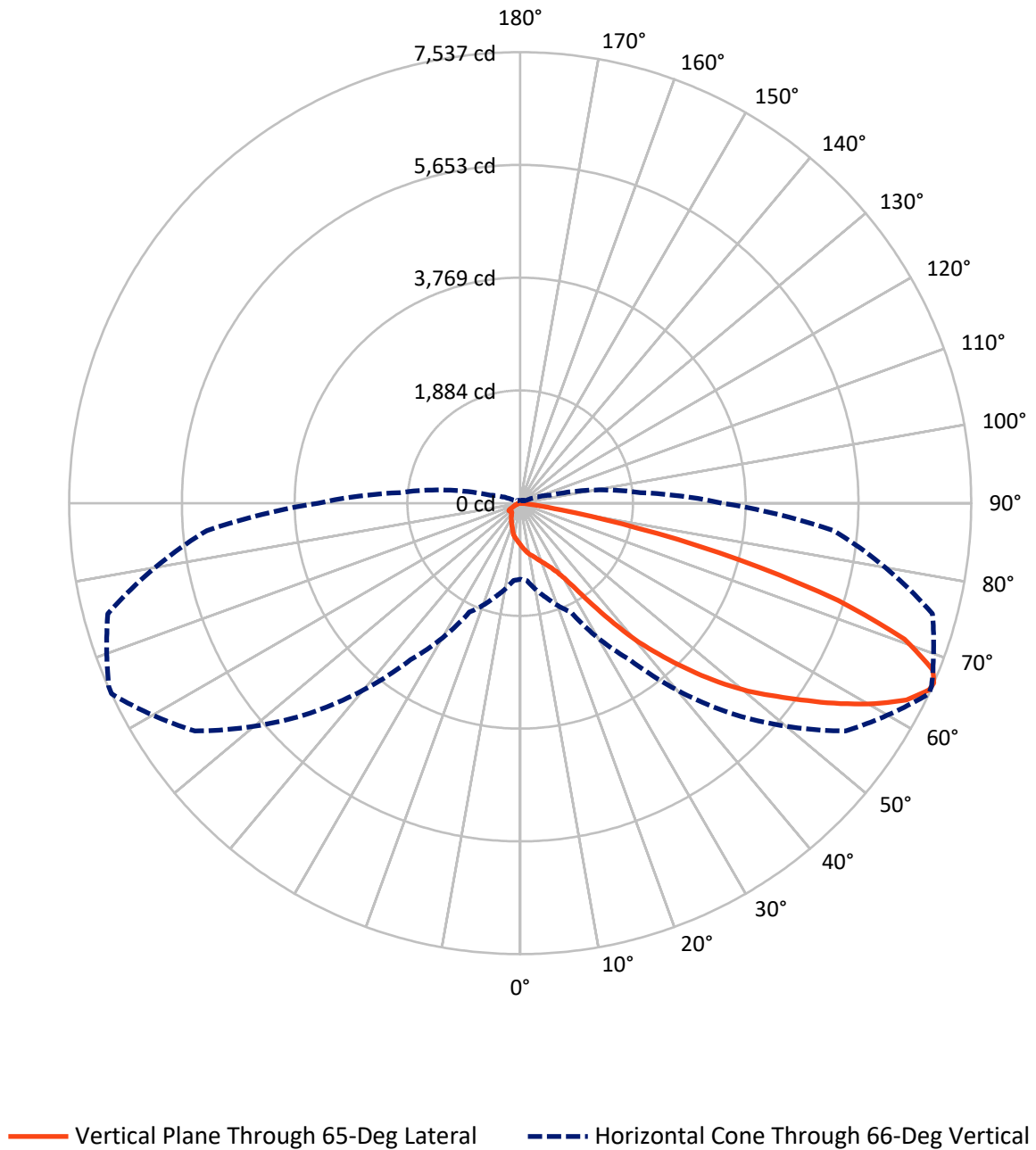
REPORT NUMBER: P1210334
CATALOG NUMBER: ARCH2-90-730-U-T3RE-HSS



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type III - Short - N/A

REPORT NUMBER: P1210334
CATALOG NUMBER: ARCH2-90-730-U-T3RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1210334

CATALOG NUMBER: ARCH2-90-730-U-T3RE-HSS

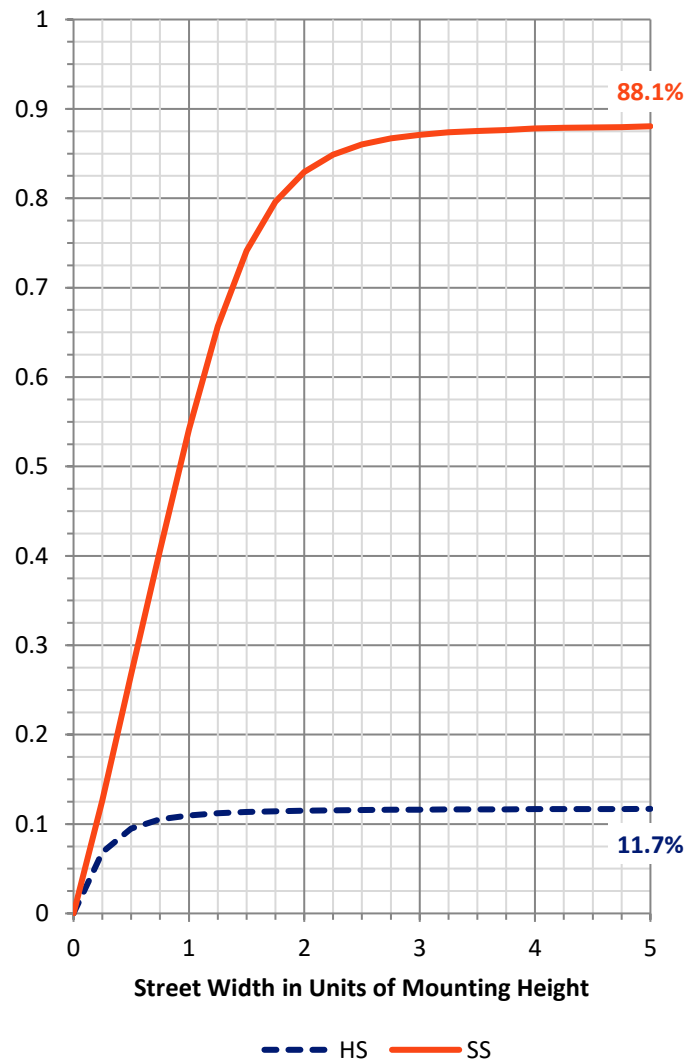
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1007.1	0.0	1007.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	7525.9	0.0	7525.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	8533.0	0.0	8533.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	0.8
10°-20°	195.1	2.3
20°-30°	357.1	4.2
30°-40°	725.6	8.5
40°-50°	1532.3	18.0
50°-60°	2355.6	27.6
60°-70°	2371.1	27.8
70°-80°	886.0	10.4
80°-90°	44.2	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	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°	8533.0	100.0
0°-180°	8533.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210334

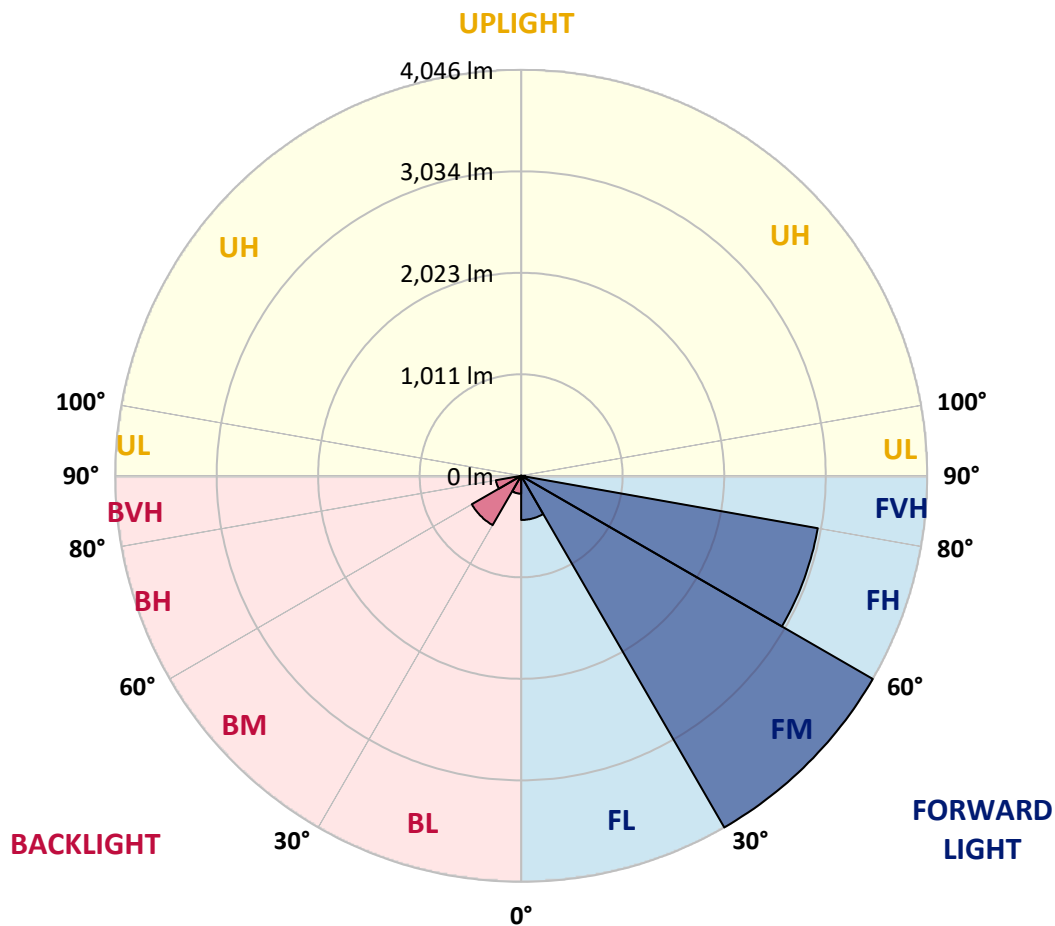
CATALOG NUMBER: ARCH2-90-730-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	439.9	5.2			
FM	(30°-60°)	4045.7	47.4			
FH	(60°-80°)	3001.3	35.2			G2/5000
FVH	(80°-90°)	39.1	0.5			G1/100
BL	(0°-30°)	178.2	2.1	B1/500		
BM	(30°-60°)	567.8	6.7	B1/1000		
BH	(60°-80°)	255.8	3.0	B1/500		G1/500
BVH	(80°-90°)	5.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



REPORT NUMBER: P1210334

CATALOG NUMBER: ARCH2-90-730-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2
2.5°	792.7	794.3	791.2	785.0	778.8	771.1	758.7	738.6	735.5	721.5	706.0
5°	846.9	850.0	845.4	843.8	840.7	829.9	812.9	783.5	780.4	752.5	716.9
7.5°	865.5	870.2	867.1	867.1	867.1	862.4	854.7	828.4	823.7	788.1	733.9
10°	879.5	882.5	881.0	887.2	891.8	888.7	884.1	868.6	864.0	828.4	757.1
12.5°	901.1	902.7	904.2	907.3	915.1	918.2	916.6	902.7	899.6	874.8	786.6
15°	921.3	921.3	922.8	936.7	947.6	953.8	955.3	944.5	941.4	921.3	823.7
17.5°	939.8	941.4	946.0	961.5	980.1	992.5	1000.2	995.6	990.9	975.4	867.1
20°	967.7	970.8	975.4	997.1	1015.7	1035.8	1051.3	1049.8	1048.2	1037.4	918.2
22.5°	1015.7	1018.8	1026.5	1046.7	1065.2	1090.0	1116.3	1114.8	1110.2	1102.4	978.5
25°	1088.5	1088.5	1093.1	1110.2	1133.4	1162.8	1187.6	1192.2	1187.6	1182.9	1054.4
27.5°	1179.8	1181.4	1181.4	1200.0	1221.6	1258.8	1289.8	1294.4	1294.4	1289.8	1156.6
30°	1306.8	1302.1	1299.0	1314.5	1337.8	1391.9	1446.1	1455.4	1450.8	1458.5	1300.6
32.5°	1525.1	1517.4	1491.0	1494.1	1508.1	1582.4	1673.7	1706.3	1704.7	1718.6	1532.8
35°	1827.0	1811.5	1772.8	1740.3	1738.8	1819.3	1958.6	2081.0	2079.4	2127.4	1885.9
37.5°	2167.7	2187.8	2115.0	2059.3	2042.2	2105.7	2285.3	2550.1	2564.0	2647.6	2348.8
40°	2622.9	2635.3	2542.4	2463.4	2382.9	2406.1	2643.0	3054.9	3079.6	3172.5	2811.8
42.5°	3019.2	3031.6	2977.4	2881.4	2779.2	2735.9	3003.8	3513.2	3533.3	3661.8	3288.6
45°	3288.6	3297.9	3316.5	3325.8	3209.7	3119.9	3445.0	3983.8	4008.6	4157.3	3754.7
47.5°	3499.2	3507.0	3544.1	3637.0	3613.8	3542.6	3894.0	4473.1	4479.3	4645.0	4208.4
50°	3596.8	3615.3	3706.7	3849.1	3951.3	3971.5	4381.8	4936.1	4953.1	5111.0	4637.2
52.5°	3488.4	3494.6	3725.3	3993.1	4199.1	4403.4	4871.0	5365.0	5414.5	5532.2	5022.8
55°	3123.0	3167.9	3517.8	3988.5	4394.2	4813.8	5394.4	5827.9	5872.8	5947.1	5361.9
57.5°	2698.7	2748.3	3174.1	3788.8	4477.8	5193.1	5879.0	6320.3	6351.2	6371.4	5673.1
60°	2331.8	2378.2	2816.4	3406.3	4394.2	5461.0	6329.6	6809.5	6835.9	6781.7	5829.5
62.5°	1881.2	1927.7	2368.9	2900.0	4065.9	5515.1	6664.0	7244.6	7255.5	7108.4	5733.5
65°	1418.3	1449.2	1817.7	2272.9	3491.5	5227.2	6739.9	7515.6	7504.7	7202.8	5445.5
66°	1271.2	1297.5	1622.6	2009.7	3192.7	4963.9	6637.7	7537.3	7526.4	7133.1	5256.6
67.5°	1096.2	1104.0	1371.8	1644.3	2670.9	4405.0	6326.5	7438.2	7447.5	6941.2	4911.3
70°	856.2	854.7	1009.5	1144.2	1823.9	3133.8	5276.7	6814.2	6859.1	6216.5	4188.2
72.5°	548.1	529.5	619.3	699.8	1062.2	1819.3	3847.6	5553.9	5629.7	4883.4	3119.9
75°	326.7	308.1	329.8	349.9	509.4	874.8	2262.1	3779.5	3852.2	3130.7	1856.4
77.5°	244.6	236.9	238.4	221.4	226.1	328.2	1032.7	1997.3	2050.0	1282.0	704.5
80°	187.3	167.2	156.4	164.1	148.6	130.1	384.0	687.5	720.0	303.5	147.1
82.5°	125.4	108.4	100.6	109.9	94.4	72.8	92.9	133.2	130.1	82.1	57.3
85°	65.0	55.7	55.7	55.7	48.0	35.6	40.3	54.2	54.2	43.4	34.1
87.5°	18.6	17.0	20.1	18.6	13.9	13.9	15.5	18.6	18.6	17.0	15.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1210334

CATALOG NUMBER: ARCH2-90-730-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2
2.5°	693.7	687.5	670.4	658.0	645.7	634.8	622.4	619.3	613.1	614.7	611.6
5°	698.3	681.3	651.8	624.0	602.3	583.7	560.5	551.2	538.8	534.2	531.1
7.5°	704.5	679.7	636.4	597.7	560.5	523.3	486.2	464.5	450.6	444.4	439.7
10°	718.4	685.9	628.6	568.2	504.8	452.1	415.0	399.5	390.2	388.6	387.1
12.5°	737.0	695.2	620.9	531.1	447.5	397.9	374.7	370.1	368.5	368.5	367.0
15°	764.9	710.7	608.5	487.7	402.6	368.5	357.7	349.9	346.8	346.8	346.8
17.5°	792.7	729.3	589.9	442.8	371.6	349.9	339.1	334.4	331.3	332.9	331.3
20°	828.4	750.9	565.1	404.1	351.5	334.4	323.6	319.0	317.4	317.4	317.4
22.5°	868.6	775.7	534.2	374.7	334.4	319.0	308.1	303.5	300.4	301.9	301.9
25°	922.8	806.7	501.7	345.3	317.4	303.5	291.1	284.9	284.9	286.4	288.0
27.5°	992.5	843.8	469.1	326.7	301.9	288.0	274.1	267.9	269.4	272.5	272.5
30°	1094.7	894.9	436.6	306.6	284.9	269.4	257.0	250.8	253.9	260.1	260.1
32.5°	1240.2	978.5	408.8	283.3	260.1	243.1	230.7	226.1	233.8	246.2	246.2
35°	1500.3	1131.8	391.7	260.1	233.8	213.7	198.2	193.5	204.4	219.9	219.9
37.5°	1848.7	1378.0	397.9	240.0	212.1	188.9	171.9	165.7	173.4	187.3	192.0
40°	2237.3	1675.3	452.1	223.0	192.0	168.8	151.7	145.5	150.2	156.4	157.9
42.5°	2626.0	1991.2	554.3	210.6	176.5	151.7	136.3	131.6	134.7	136.3	137.8
45°	3013.0	2303.9	682.8	202.8	162.6	137.8	122.3	122.3	123.9	123.9	123.9
47.5°	3380.0	2608.9	817.5	201.3	150.2	123.9	111.5	113.0	113.0	114.6	114.6
50°	3726.8	2881.4	953.8	205.9	139.3	111.5	102.2	102.2	102.2	103.7	102.2
52.5°	4016.4	3119.9	1096.2	213.7	128.5	102.2	92.9	92.9	92.9	94.4	92.9
55°	4290.4	3336.6	1241.8	224.5	119.2	94.4	85.2	82.1	82.1	83.6	82.1
57.5°	4513.4	3480.6	1379.6	226.1	111.5	86.7	79.0	74.3	74.3	74.3	74.3
60°	4522.7	3397.0	1419.8	198.2	102.2	79.0	71.2	65.0	66.6	66.6	66.6
62.5°	4226.9	2957.3	1141.1	148.6	91.4	71.2	65.0	58.8	58.8	58.8	58.8
65°	3646.3	2300.8	668.9	117.7	79.0	63.5	57.3	52.6	52.6	52.6	51.1
66°	3373.8	2017.5	512.5	106.8	74.3	61.9	55.7	51.1	49.5	48.0	48.0
67.5°	2929.4	1594.8	320.5	94.4	68.1	57.3	51.1	46.4	44.9	43.4	43.4
70°	2206.4	1012.6	156.4	72.8	58.8	49.5	44.9	40.3	38.7	37.2	35.6
72.5°	1548.3	593.0	82.1	55.7	48.0	43.4	38.7	34.1	32.5	31.0	31.0
75°	874.8	286.4	54.2	40.3	38.7	35.6	32.5	27.9	26.3	26.3	26.3
77.5°	331.3	99.1	37.2	29.4	31.0	27.9	23.2	23.2	21.7	23.2	21.7
80°	86.7	43.4	23.2	21.7	23.2	20.1	17.0	18.6	18.6	18.6	18.6
82.5°	46.4	24.8	13.9	15.5	13.9	13.9	10.8	12.4	13.9	12.4	13.9
85°	32.5	12.4	7.7	7.7	6.2	6.2	4.6	6.2	7.7	6.2	6.2
87.5°	17.0	4.6	4.6	4.6	4.6	3.1	1.5	0.0	1.5	1.5	1.5
90°	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)