

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: P1211544

Luminaire Tested: **ARCH4-40-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-40-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

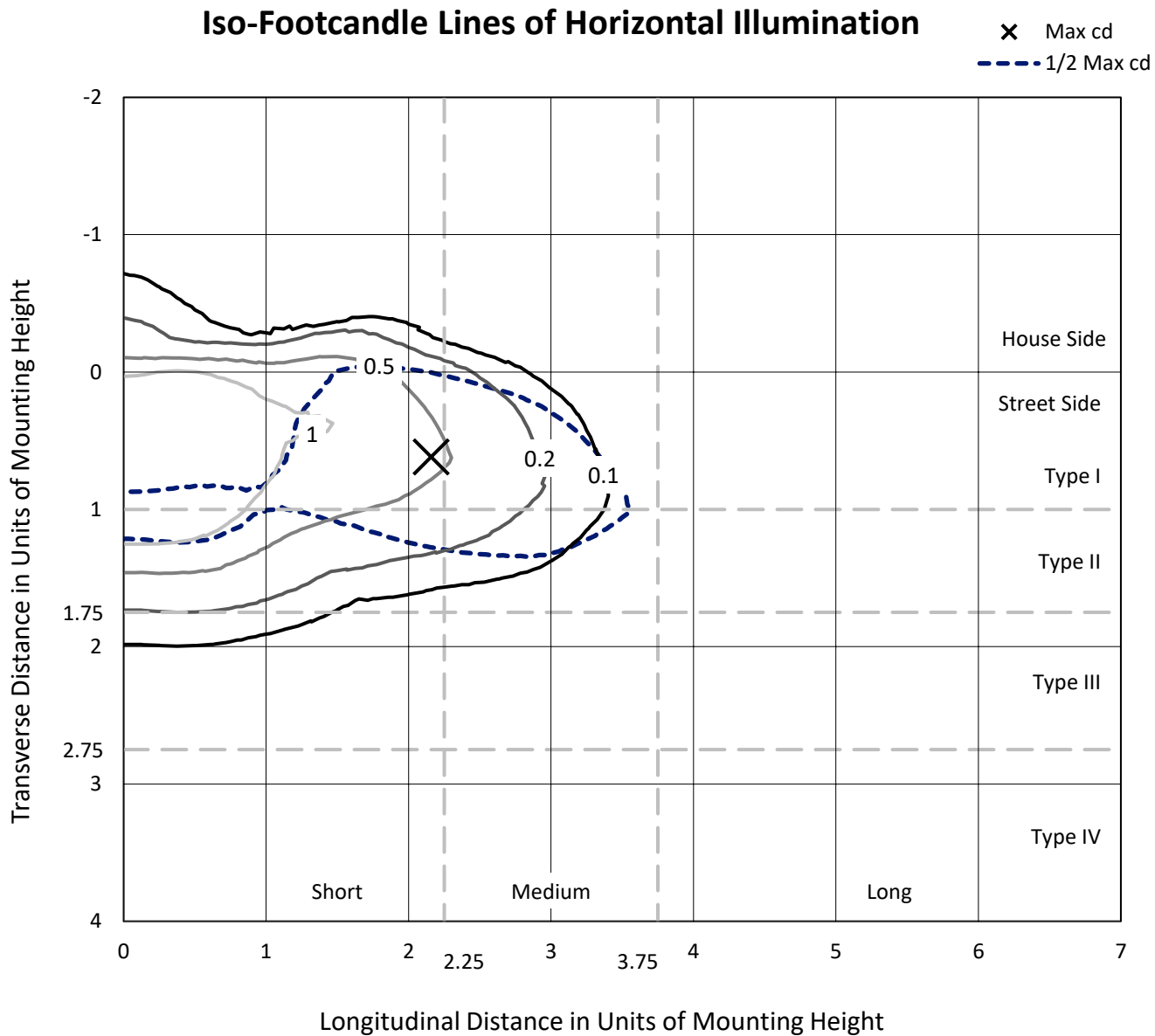
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5119 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43.8
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

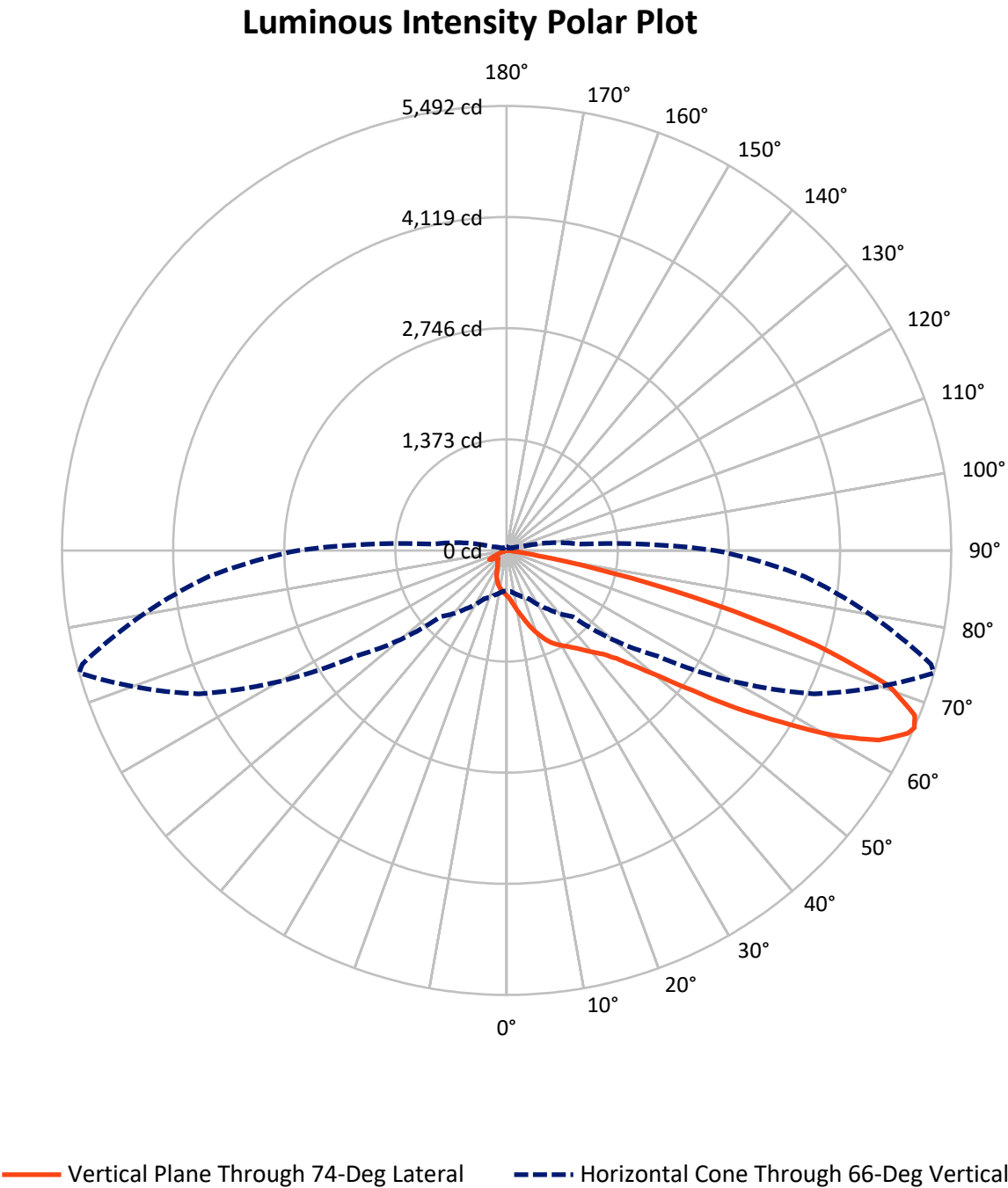


REPORT NUMBER: P1211544
CATALOG NUMBER: ARCH4-40-727-U-T2RE-HSS



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type II - Short - N/A

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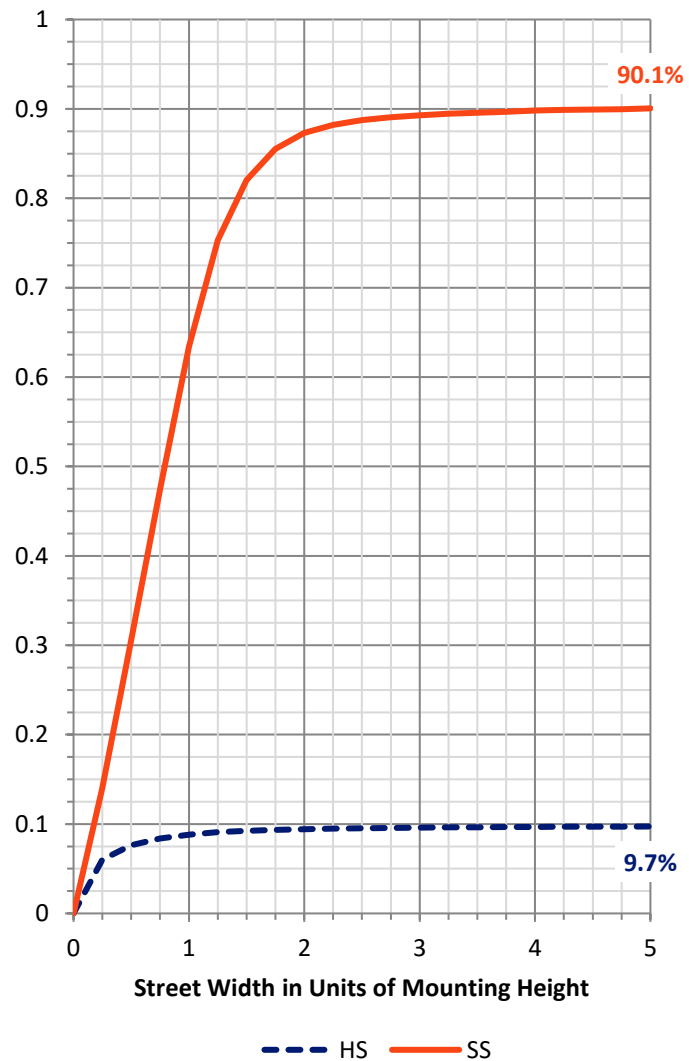
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	501.8	0.0	501.8
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	4617.2	0.0	4617.2
	% Fixture	90.2	0.0	90.2
Total	Lumens	5119.0	0.0	5119.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	1.1
10°-20°	174.8	3.4
20°-30°	333.7	6.5
30°-40°	584.9	11.4
40°-50°	1002.9	19.6
50°-60°	1304.4	25.5
60°-70°	1180.8	23.1
70°-80°	455.6	8.9
80°-90°	27.4	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°	5119.0	100.0
0°-180°	5119.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211544

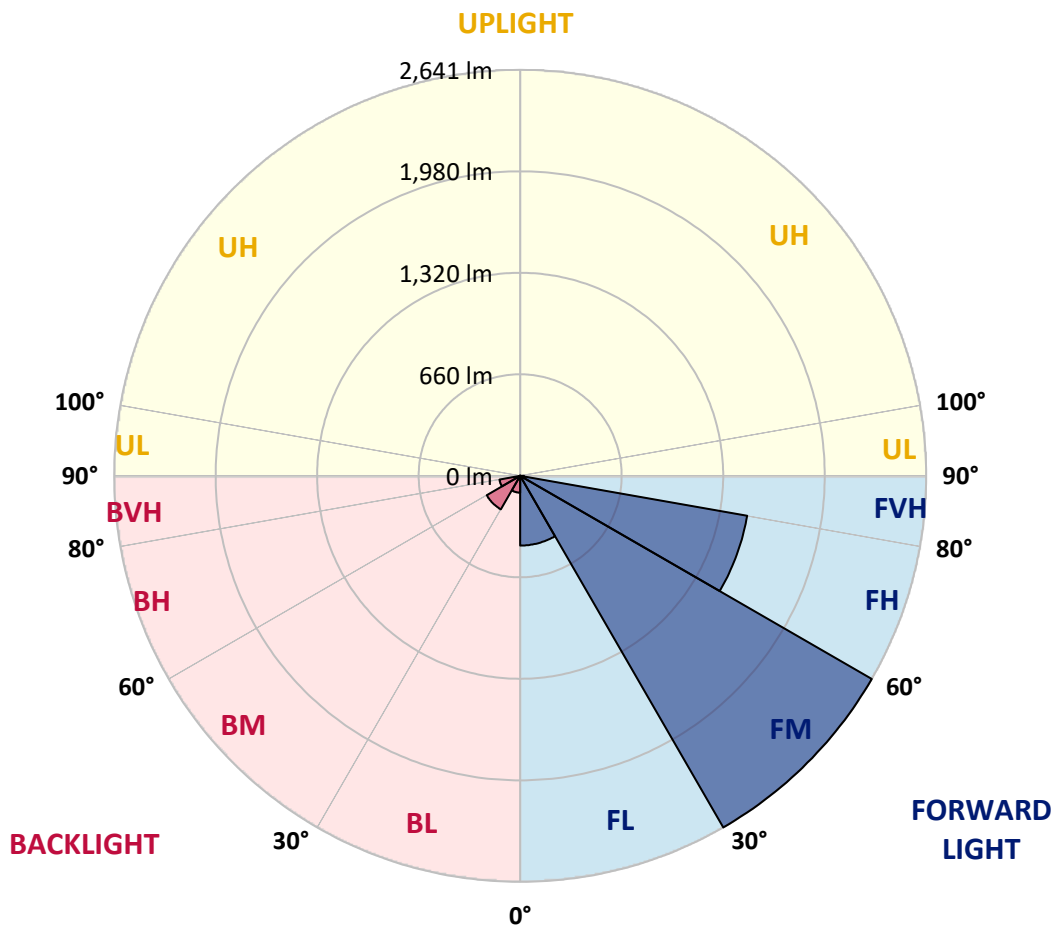
CATALOG NUMBER: ARCH4-40-727-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	453.6	8.9			
FM	(30°-60°)	2640.6	51.6			
FH	(60°-80°)	1499.2	29.3			G1/1800
FVH	(80°-90°)	23.7	0.5			G1/100
BL	(0°-30°)	109.5	2.1	B0/110		
BM	(30°-60°)	251.5	4.9	B1/1000		
BH	(60°-80°)	137.2	2.7	B1/500		G1/500
BVH	(80°-90°)	3.7	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-G1

Type II Short



REPORT NUMBER: P1211544

CATALOG NUMBER: ARCH4-40-727-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8
2.5°	670.9	665.4	655.3	654.4	646.1	636.0	618.5	600.1	587.3	585.4	569.8
5°	803.3	800.5	790.4	784.0	768.3	744.4	704.0	663.6	629.6	625.9	590.9
7.5°	838.2	840.0	841.9	848.3	842.8	831.7	801.4	744.4	691.1	682.9	622.2
10°	843.7	841.9	841.9	850.1	865.7	881.4	877.7	829.0	760.1	749.9	665.4
12.5°	903.4	906.2	899.8	896.1	893.3	901.6	929.2	908.0	832.7	824.4	717.8
15°	980.6	979.7	970.5	970.5	962.2	948.5	965.9	981.5	920.0	909.9	777.5
17.5°	1036.7	1040.4	1039.4	1045.0	1042.2	1023.8	1014.6	1046.8	1010.0	997.2	845.5
20°	1081.7	1091.8	1095.5	1113.0	1121.2	1108.4	1084.5	1104.7	1096.4	1084.5	914.5
22.5°	1129.5	1137.8	1144.2	1174.5	1197.5	1194.8	1164.4	1159.8	1180.1	1169.0	982.5
25°	1177.3	1181.0	1200.3	1237.0	1273.8	1283.0	1251.7	1215.9	1255.4	1245.3	1043.1
27.5°	1229.7	1231.5	1254.5	1299.5	1351.0	1370.3	1345.5	1279.3	1313.3	1313.3	1098.3
30°	1325.3	1343.7	1352.8	1393.3	1438.3	1465.0	1435.6	1346.4	1364.8	1373.1	1156.2
32.5°	1531.1	1533.9	1531.1	1548.6	1557.8	1573.4	1539.4	1421.8	1417.2	1426.4	1213.1
35°	1845.5	1834.4	1805.0	1779.3	1726.0	1696.6	1652.5	1518.3	1481.5	1494.4	1269.2
37.5°	2226.9	2211.2	2144.1	2065.1	1951.1	1833.5	1778.4	1635.9	1563.3	1579.8	1329.9
40°	2590.8	2580.7	2500.7	2403.3	2208.5	2007.2	1890.5	1735.2	1654.3	1660.7	1391.4
42.5°	2890.4	2888.6	2821.5	2719.5	2469.5	2194.7	2022.8	1832.6	1749.9	1760.0	1455.8
45°	3117.4	3100.0	3050.3	2976.8	2722.2	2389.5	2182.7	1980.6	1903.4	1915.3	1552.3
47.5°	3117.4	3120.2	3152.3	3145.0	2898.7	2572.4	2357.4	2167.1	2130.4	2141.4	1711.3
50°	2863.8	2889.5	3032.9	3153.3	2990.6	2714.9	2545.8	2400.6	2438.2	2454.8	1988.8
52.5°	2362.0	2405.2	2654.2	2929.0	2922.6	2786.6	2740.6	2697.4	2866.5	2895.9	2398.7
55°	1794.9	1823.4	2147.8	2509.0	2626.6	2727.7	2910.6	3074.2	3433.6	3427.1	2815.1
57.5°	1340.9	1367.5	1646.9	2047.6	2203.0	2473.2	2997.9	3505.3	3996.0	4020.8	3205.7
60°	986.1	1006.4	1244.4	1573.4	1797.7	2083.5	2963.0	3929.9	4644.0	4615.5	3550.3
62.5°	729.7	740.8	912.6	1126.8	1424.5	1697.5	2743.4	4220.3	5161.4	5103.5	3742.4
65°	564.3	568.0	657.1	771.1	1035.8	1319.8	2416.2	4264.4	5447.2	5385.6	3738.7
66°	502.7	505.5	570.7	659.0	881.4	1155.2	2272.8	4193.6	5492.2	5427.0	3692.7
67.5°	421.8	420.0	458.6	516.5	661.7	891.5	2018.2	3986.8	5438.9	5405.9	3545.7
70°	312.5	313.4	332.7	346.5	386.9	493.5	1457.6	3458.4	5012.5	5010.7	3142.2
72.5°	231.6	234.4	249.1	251.8	241.7	267.4	840.0	2750.7	4009.8	4010.7	2349.1
75°	173.7	178.3	182.9	184.7	175.5	169.1	379.6	1851.0	2637.7	2618.4	1329.9
77.5°	132.3	134.2	137.9	135.1	133.3	116.7	158.1	902.5	1302.3	1186.5	431.0
80°	96.5	96.5	100.2	96.5	95.6	83.6	86.4	289.5	382.3	318.0	92.8
82.5°	60.7	59.7	62.5	61.6	59.7	53.3	50.5	80.9	88.2	79.0	45.0
85°	34.0	33.1	32.2	31.2	28.5	23.9	27.6	30.3	40.4	41.4	32.2
87.5°	11.9	11.9	11.0	10.1	8.3	8.3	10.1	10.1	14.7	14.7	16.5
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: P1211544

CATALOG NUMBER: ARCH4-40-727-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8
2.5°	562.5	552.3	537.6	518.3	504.6	490.8	476.1	467.8	455.8	453.1	456.8
5°	572.6	554.2	517.4	477.0	442.1	410.8	381.4	363.9	346.5	340.0	342.8
7.5°	593.7	562.5	500.0	434.7	376.8	329.9	295.0	274.8	259.2	252.7	254.6
10°	625.0	577.2	483.4	386.9	312.5	262.8	233.4	220.6	211.4	207.7	208.6
12.5°	662.6	598.3	462.3	339.1	257.3	214.1	200.4	197.6	195.8	193.9	194.8
15°	704.9	616.7	437.5	292.3	214.1	190.2	185.6	184.7	183.8	183.8	183.8
17.5°	749.0	633.2	409.9	248.1	186.6	175.5	172.8	172.8	172.8	173.7	173.7
20°	790.4	646.1	377.7	208.6	170.9	161.8	159.9	159.9	160.8	161.8	161.8
22.5°	830.8	651.6	340.0	181.1	158.1	149.8	147.0	147.0	147.0	148.0	148.0
25°	865.7	651.6	302.4	163.6	147.0	138.8	135.1	134.2	135.1	135.1	135.1
27.5°	895.2	648.9	265.6	151.6	136.0	127.7	124.1	123.2	125.0	125.9	125.9
30°	926.4	645.2	236.2	140.6	126.8	118.6	114.9	114.9	117.6	121.3	121.3
32.5°	956.7	647.9	213.2	131.4	117.6	111.2	107.5	108.4	114.0	119.5	119.5
35°	988.9	653.4	199.4	125.0	111.2	104.8	102.0	104.8	110.3	115.8	115.8
37.5°	1021.1	659.9	191.2	119.5	105.7	99.3	97.4	101.1	107.5	113.0	114.0
40°	1055.1	665.4	182.0	114.0	102.0	94.7	93.7	97.4	105.7	111.2	112.1
42.5°	1097.3	676.4	170.9	109.4	98.3	89.1	90.1	92.8	101.1	109.4	110.3
45°	1180.1	711.3	159.9	104.8	93.7	86.4	84.6	86.4	95.6	104.8	106.6
47.5°	1335.4	790.4	148.0	100.2	89.1	84.6	77.2	79.0	87.3	97.4	98.3
50°	1633.2	958.6	141.5	95.6	85.5	78.1	69.8	69.8	76.3	85.5	85.5
52.5°	2097.3	1260.0	145.2	91.9	80.9	71.7	63.4	62.5	66.2	72.6	72.6
55°	2598.2	1590.9	159.0	88.2	75.4	68.0	58.8	54.2	57.0	60.7	60.7
57.5°	2995.2	1757.2	196.7	86.4	68.9	65.3	53.3	46.9	49.6	53.3	53.3
60°	3169.8	1659.8	239.0	88.2	64.3	60.7	47.8	41.4	46.0	49.6	50.5
62.5°	3028.3	1366.6	256.4	83.6	57.9	54.2	46.9	38.6	44.1	46.9	47.8
65°	2722.2	1038.5	200.4	72.6	53.3	46.9	42.3	36.8	41.4	44.1	44.1
66°	2577.0	905.3	170.9	67.1	51.5	44.1	40.4	36.8	40.4	42.3	43.2
67.5°	2351.9	714.1	126.8	58.8	47.8	40.4	37.7	34.9	38.6	40.4	40.4
70°	1839.0	425.5	76.3	46.0	41.4	35.8	34.0	32.2	34.9	35.8	35.8
72.5°	1151.6	202.2	48.7	34.0	34.9	34.0	28.5	30.3	31.2	32.2	32.2
75°	557.9	80.0	33.1	24.8	28.5	32.2	23.0	26.7	27.6	29.4	28.5
77.5°	155.3	38.6	21.1	18.4	24.8	24.8	17.5	21.1	24.8	31.2	28.5
80°	45.0	24.8	13.8	13.8	17.5	17.5	11.9	14.7	16.5	18.4	19.3
82.5°	31.2	16.5	9.2	10.1	10.1	11.0	7.4	7.4	9.2	9.2	10.1
85°	24.8	7.4	5.5	6.4	4.6	5.5	3.7	3.7	4.6	3.7	3.7
87.5°	10.1	3.7	3.7	3.7	2.8	2.8	1.8	0.9	0.9	0.9	0.9
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)