

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: P1210458

Luminaire Tested: **ARCH3-130-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210458
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: ARCH3-130-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12873 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 132.6
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

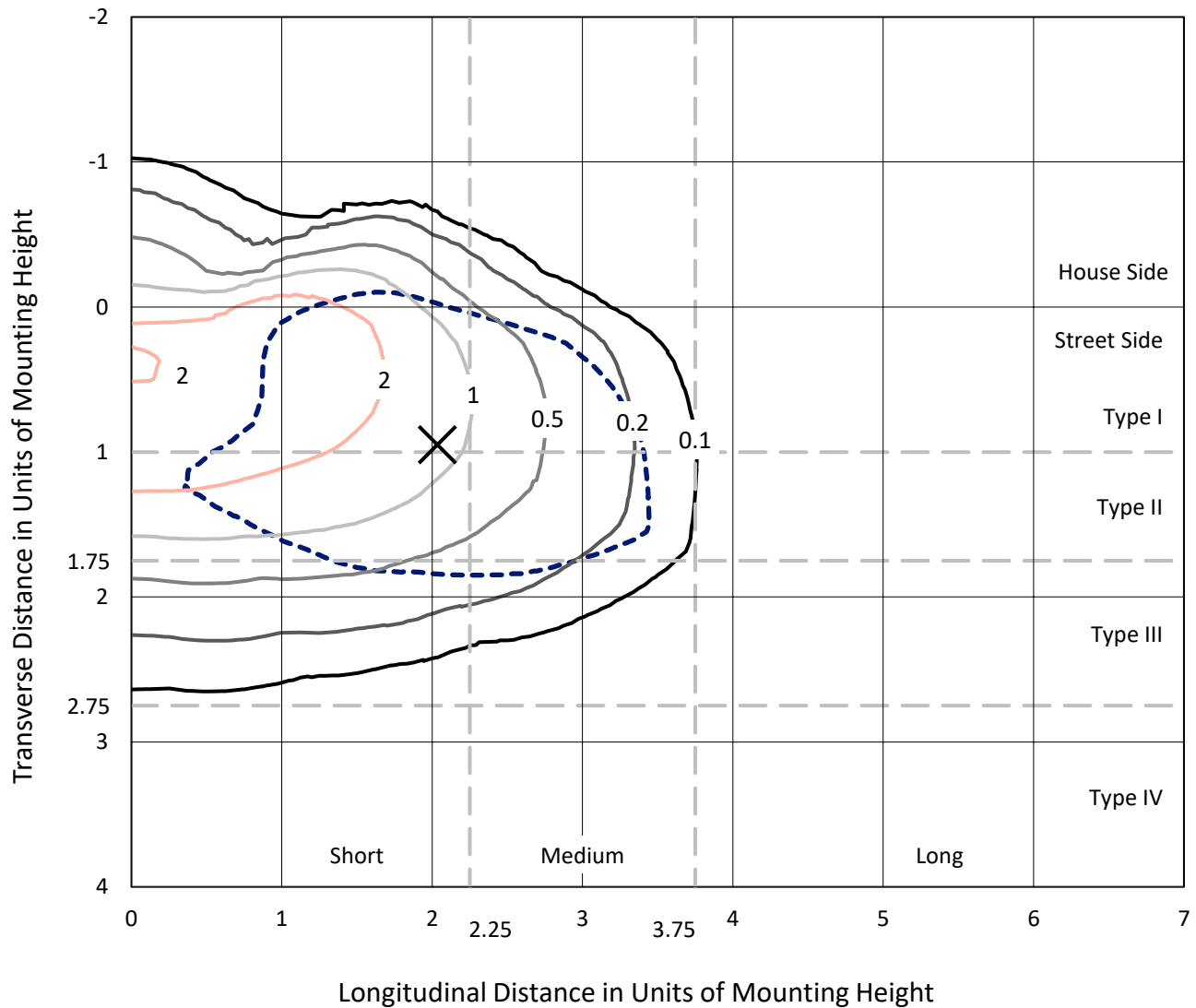


REPORT NUMBER: P1210458

CATALOG NUMBER: ARCH3-130-727-U-T3RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

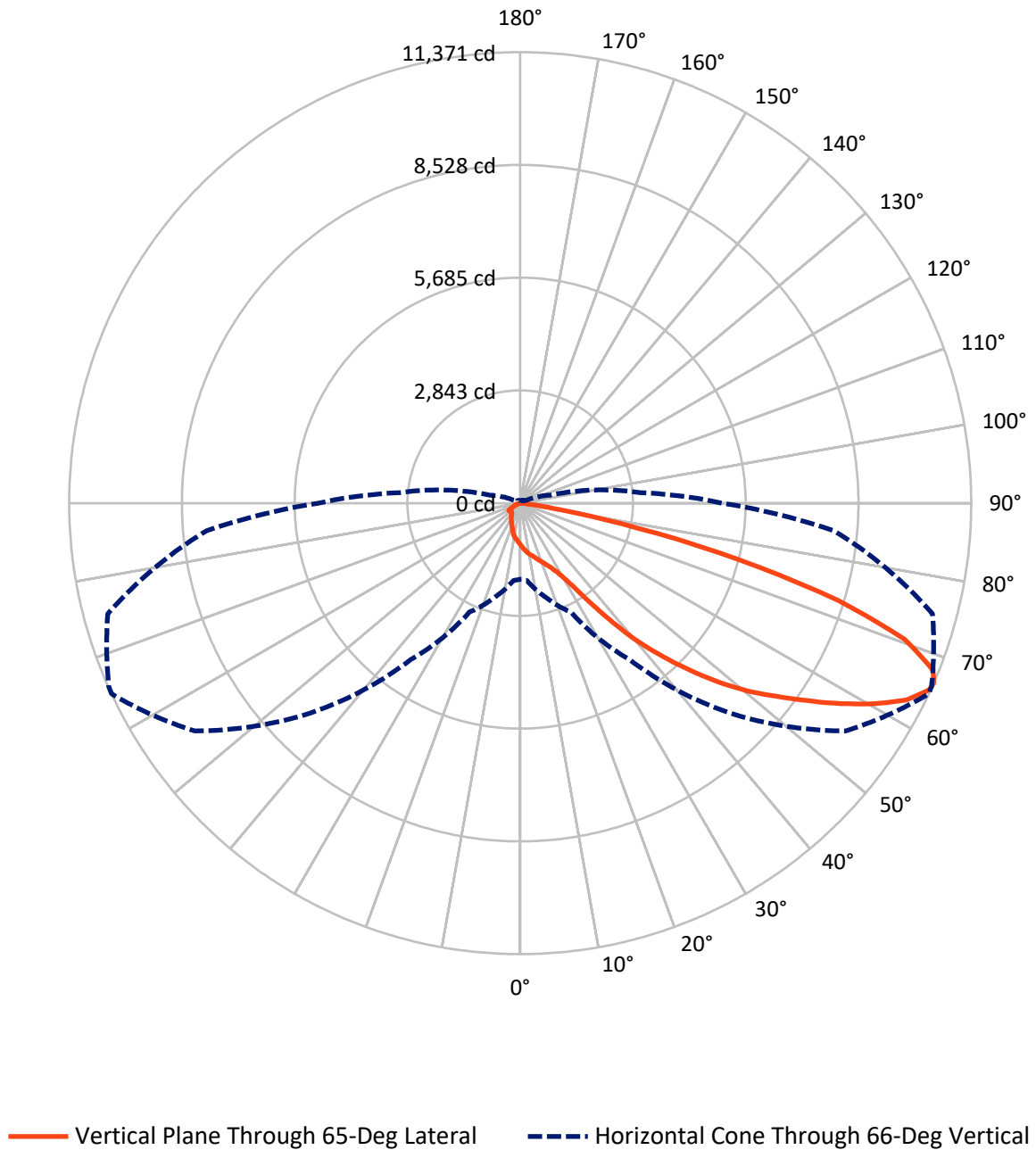
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type III - Short - N/A

REPORT NUMBER: P1210458
CATALOG NUMBER: ARCH3-130-727-U-T3RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1210458

CATALOG NUMBER: ARCH3-130-727-U-T3RE-HSS

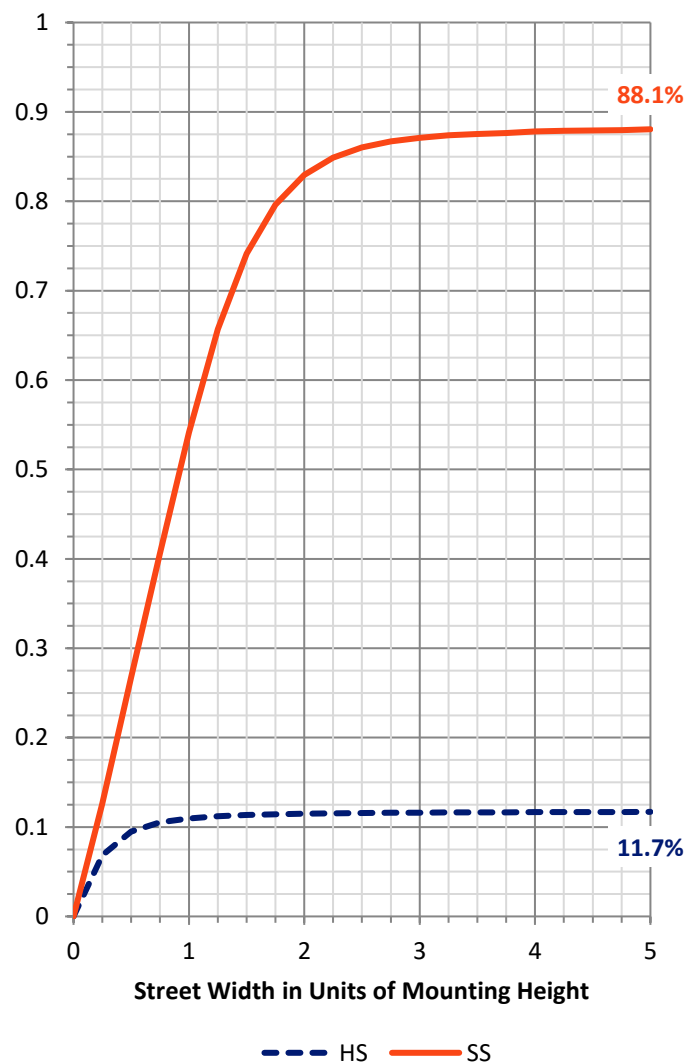
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1519.3	0.0	1519.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	11353.7	0.0	11353.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	12873.0	0.0	12873.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	0.8
10°-20°	294.3	2.3
20°-30°	538.7	4.2
30°-40°	1094.7	8.5
40°-50°	2311.6	18.0
50°-60°	3553.7	27.6
60°-70°	3577.1	27.8
70°-80°	1336.6	10.4
80°-90°	66.8	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°	12873.0	100.0
0°-180°	12873.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210458

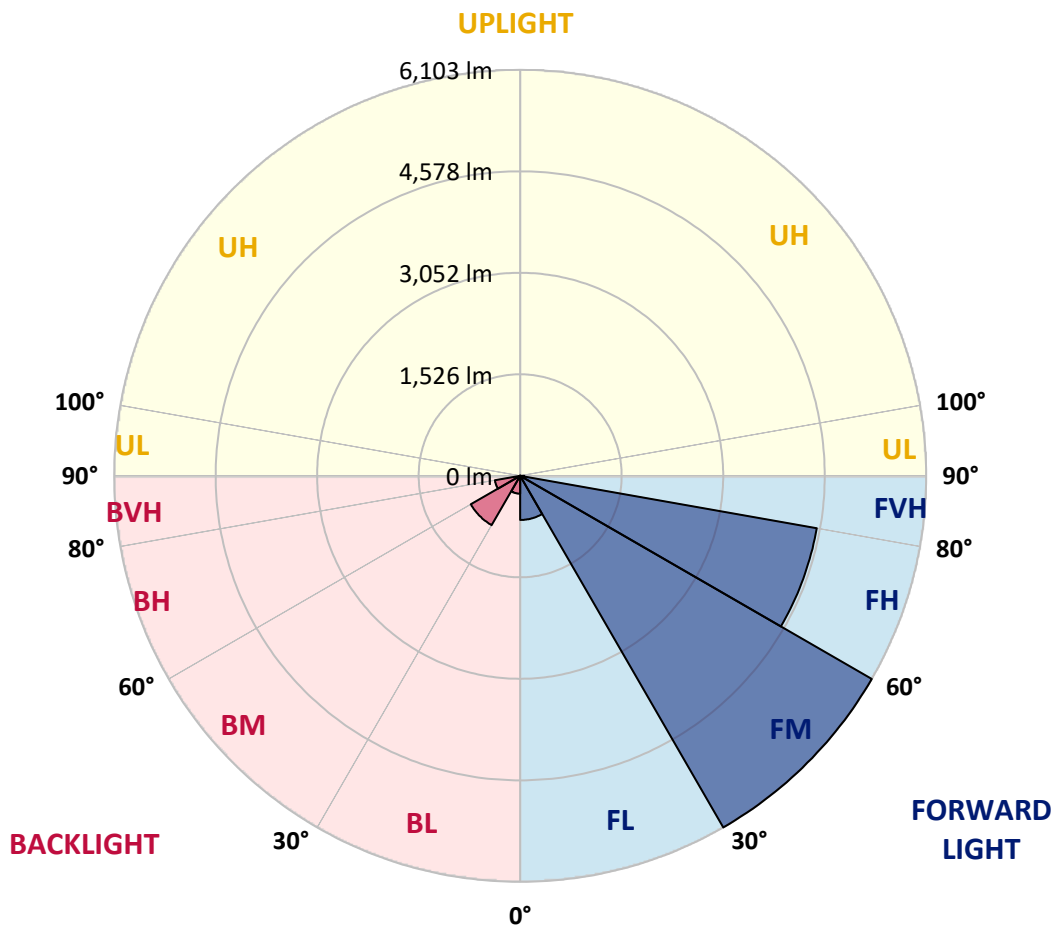
CATALOG NUMBER: ARCH3-130-727-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	663.6	5.2			
FM	(30°-60°)	6103.5	47.4			
FH	(60°-80°)	4527.7	35.2			G2/5000
FVH	(80°-90°)	58.9	0.5			G1/100
BL	(0°-30°)	268.9	2.1	B1/500		
BM	(30°-60°)	856.6	6.7	B1/1000		
BH	(60°-80°)	385.9	3.0	B1/500		G1/500
BVH	(80°-90°)	7.8	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: P1210458

CATALOG NUMBER: ARCH3-130-727-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8
2.5°	1195.9	1198.3	1193.6	1184.3	1174.9	1163.2	1144.6	1114.2	1109.5	1088.5	1065.1
5°	1277.7	1282.4	1275.4	1273.0	1268.4	1252.0	1226.3	1181.9	1177.3	1135.2	1081.5
7.5°	1305.7	1312.7	1308.1	1308.1	1308.1	1301.1	1289.4	1249.7	1242.7	1188.9	1107.2
10°	1326.8	1331.4	1329.1	1338.4	1345.4	1340.8	1333.8	1310.4	1303.4	1249.7	1142.2
12.5°	1359.5	1361.8	1364.1	1368.8	1380.5	1385.1	1382.8	1361.8	1357.1	1319.7	1186.6
15°	1389.8	1389.8	1392.2	1413.2	1429.5	1438.9	1441.2	1424.9	1420.2	1389.8	1242.7
17.5°	1417.8	1420.2	1427.2	1450.5	1478.6	1497.3	1508.9	1501.9	1494.9	1471.6	1308.1
20°	1459.9	1464.6	1471.6	1504.3	1532.3	1562.7	1586.0	1583.7	1581.4	1565.0	1385.1
22.5°	1532.3	1537.0	1548.7	1579.0	1607.1	1644.4	1684.1	1681.8	1674.8	1663.1	1476.2
25°	1642.1	1642.1	1649.1	1674.8	1709.8	1754.2	1791.6	1798.6	1791.6	1784.6	1590.7
27.5°	1779.9	1782.2	1782.2	1810.3	1843.0	1899.0	1945.7	1952.8	1952.8	1945.7	1744.9
30°	1971.4	1964.4	1959.8	1983.1	2018.2	2099.9	2181.7	2195.7	2188.7	2200.4	1962.1
32.5°	2300.8	2289.1	2249.4	2254.1	2275.1	2387.2	2525.0	2574.1	2571.7	2592.8	2312.5
35°	2756.3	2732.9	2674.5	2625.5	2623.1	2744.6	2954.8	3139.4	3137.0	3209.4	2845.0
37.5°	3270.2	3300.5	3190.7	3106.7	3081.0	3176.7	3447.7	3847.1	3868.1	3994.3	3543.5
40°	3956.9	3975.6	3835.4	3716.3	3594.8	3629.9	3987.3	4608.6	4646.0	4786.1	4241.9
42.5°	4554.9	4573.6	4491.8	4347.0	4192.8	4127.4	4531.5	5300.0	5330.4	5524.2	4961.3
45°	4961.3	4975.3	5003.3	5017.4	4842.2	4706.7	5197.2	6010.1	6047.5	6271.7	5664.4
47.5°	5279.0	5290.7	5346.7	5486.9	5451.8	5344.4	5874.6	6748.2	6757.6	7007.5	6348.8
50°	5426.1	5454.2	5592.0	5806.9	5961.0	5991.4	6610.4	7446.6	7472.3	7710.6	6995.8
52.5°	5262.6	5272.0	5620.0	6024.1	6334.8	6643.1	7348.5	8093.6	8168.4	8345.9	7577.4
55°	4711.4	4779.1	5307.0	6017.1	6629.1	7262.1	8138.0	8792.1	8859.8	8971.9	8089.0
57.5°	4071.4	4146.1	4788.4	5715.8	6755.2	7834.4	8869.1	9534.9	9581.6	9611.9	8558.5
60°	3517.8	3587.8	4248.9	5138.8	6629.1	8238.5	9548.9	10273.0	10312.7	10230.9	8794.4
62.5°	2838.0	2908.1	3573.8	4375.0	6133.9	8320.2	10053.4	10929.3	10945.7	10723.8	8649.6
65°	2139.6	2186.3	2742.3	3429.0	5267.3	7885.8	10167.9	11338.1	11321.8	10866.3	8215.1
66°	1917.7	1957.4	2447.9	3031.9	4816.5	7488.7	10013.7	11370.8	11354.5	10761.2	7930.1
67.5°	1653.8	1665.4	2069.5	2480.7	4029.3	6645.4	9544.2	11221.3	11235.3	10471.5	7409.3
70°	1291.7	1289.4	1523.0	1726.2	2751.6	4727.7	7960.5	10280.0	10347.7	9378.4	6318.4
72.5°	826.9	798.9	934.3	1055.8	1602.4	2744.6	5804.5	8378.6	8493.1	7367.2	4706.7
75°	492.9	464.8	497.5	527.9	768.5	1319.7	3412.6	5701.8	5811.5	4723.0	2800.7
77.5°	369.1	357.4	359.7	334.0	341.0	495.2	1558.0	3013.2	3092.6	1934.1	1062.8
80°	282.6	252.3	235.9	247.6	224.2	196.2	579.3	1037.1	1086.2	457.8	221.9
82.5°	189.2	163.5	151.8	165.8	142.5	109.8	140.1	200.9	196.2	123.8	86.4
85°	98.1	84.1	84.1	84.1	72.4	53.7	60.7	81.8	81.8	65.4	51.4
87.5°	28.0	25.7	30.4	28.0	21.0	21.0	23.4	28.0	28.0	25.7	23.4
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: P1210458

CATALOG NUMBER: ARCH3-130-727-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8
2.5°	1046.5	1037.1	1011.4	992.7	974.0	957.7	939.0	934.3	925.0	927.3	922.7
5°	1053.5	1027.8	983.4	941.3	908.6	880.6	845.6	831.6	812.9	805.9	801.2
7.5°	1062.8	1025.4	960.0	901.6	845.6	789.5	733.5	700.7	679.7	670.4	663.4
10°	1083.8	1034.8	948.3	857.2	761.5	682.1	626.0	602.6	588.6	586.3	584.0
12.5°	1111.9	1048.8	936.7	801.2	675.1	600.3	565.3	558.3	555.9	555.9	553.6
15°	1153.9	1072.1	918.0	735.8	607.3	555.9	539.6	527.9	523.2	523.2	523.2
17.5°	1195.9	1100.2	890.0	668.0	560.6	527.9	511.5	504.5	499.9	502.2	499.9
20°	1249.7	1132.9	852.6	609.7	530.2	504.5	488.2	481.2	478.8	478.8	478.8
22.5°	1310.4	1170.3	805.9	565.3	504.5	481.2	464.8	457.8	453.2	455.5	455.5
25°	1392.2	1217.0	756.8	520.9	478.8	457.8	439.1	429.8	429.8	432.1	434.5
27.5°	1497.3	1273.0	707.8	492.9	455.5	434.5	413.4	404.1	406.4	411.1	411.1
30°	1651.4	1350.1	658.7	462.5	429.8	406.4	387.7	378.4	383.1	392.4	392.4
32.5°	1871.0	1476.2	616.7	427.5	392.4	366.7	348.0	341.0	352.7	371.4	371.4
35°	2263.4	1707.5	591.0	392.4	352.7	322.3	299.0	292.0	308.3	331.7	331.7
37.5°	2789.0	2078.9	600.3	362.1	320.0	285.0	259.3	249.9	261.6	282.6	289.6
40°	3375.3	2527.4	682.1	336.4	289.6	254.6	228.9	219.6	226.6	235.9	238.3
42.5°	3961.6	3003.9	836.2	317.7	266.3	228.9	205.6	198.5	203.2	205.6	207.9
45°	4545.5	3475.7	1030.1	306.0	245.3	207.9	184.5	184.5	186.9	186.9	186.9
47.5°	5099.1	3935.9	1233.3	303.7	226.6	186.9	168.2	170.5	170.5	172.9	172.9
50°	5622.3	4347.0	1438.9	310.7	210.2	168.2	154.2	154.2	154.2	156.5	154.2
52.5°	6059.1	4706.7	1653.8	322.3	193.9	154.2	140.1	140.1	140.1	142.5	140.1
55°	6472.6	5033.7	1873.3	338.7	179.9	142.5	128.5	123.8	123.8	126.1	123.8
57.5°	6808.9	5250.9	2081.2	341.0	168.2	130.8	119.1	112.1	112.1	112.1	112.1
60°	6823.0	5124.8	2142.0	299.0	154.2	119.1	107.4	98.1	100.4	100.4	100.4
62.5°	6376.8	4461.4	1721.5	224.2	137.8	107.4	98.1	88.8	88.8	88.8	88.8
65°	5500.9	3471.0	1009.1	177.5	119.1	95.8	86.4	79.4	79.4	79.4	77.1
66°	5089.8	3043.6	773.2	161.2	112.1	93.4	84.1	77.1	74.7	72.4	72.4
67.5°	4419.4	2405.9	483.5	142.5	102.8	86.4	77.1	70.1	67.7	65.4	65.4
70°	3328.6	1527.6	235.9	109.8	88.8	74.7	67.7	60.7	58.4	56.1	53.7
72.5°	2335.8	894.6	123.8	84.1	72.4	65.4	58.4	51.4	49.1	46.7	46.7
75°	1319.7	432.1	81.8	60.7	58.4	53.7	49.1	42.0	39.7	39.7	39.7
77.5°	499.9	149.5	56.1	44.4	46.7	42.0	35.0	35.0	32.7	35.0	32.7
80°	130.8	65.4	35.0	32.7	35.0	30.4	25.7	28.0	28.0	28.0	28.0
82.5°	70.1	37.4	21.0	23.4	21.0	21.0	16.4	18.7	21.0	18.7	21.0
85°	49.1	18.7	11.7	11.7	9.3	9.3	7.0	9.3	11.7	9.3	9.3
87.5°	25.7	7.0	7.0	7.0	7.0	4.7	2.3	0.0	2.3	2.3	2.3
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)