

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: P836324

Luminaire Tested: **ARCH3-170-730-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836324
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-170-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16253 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

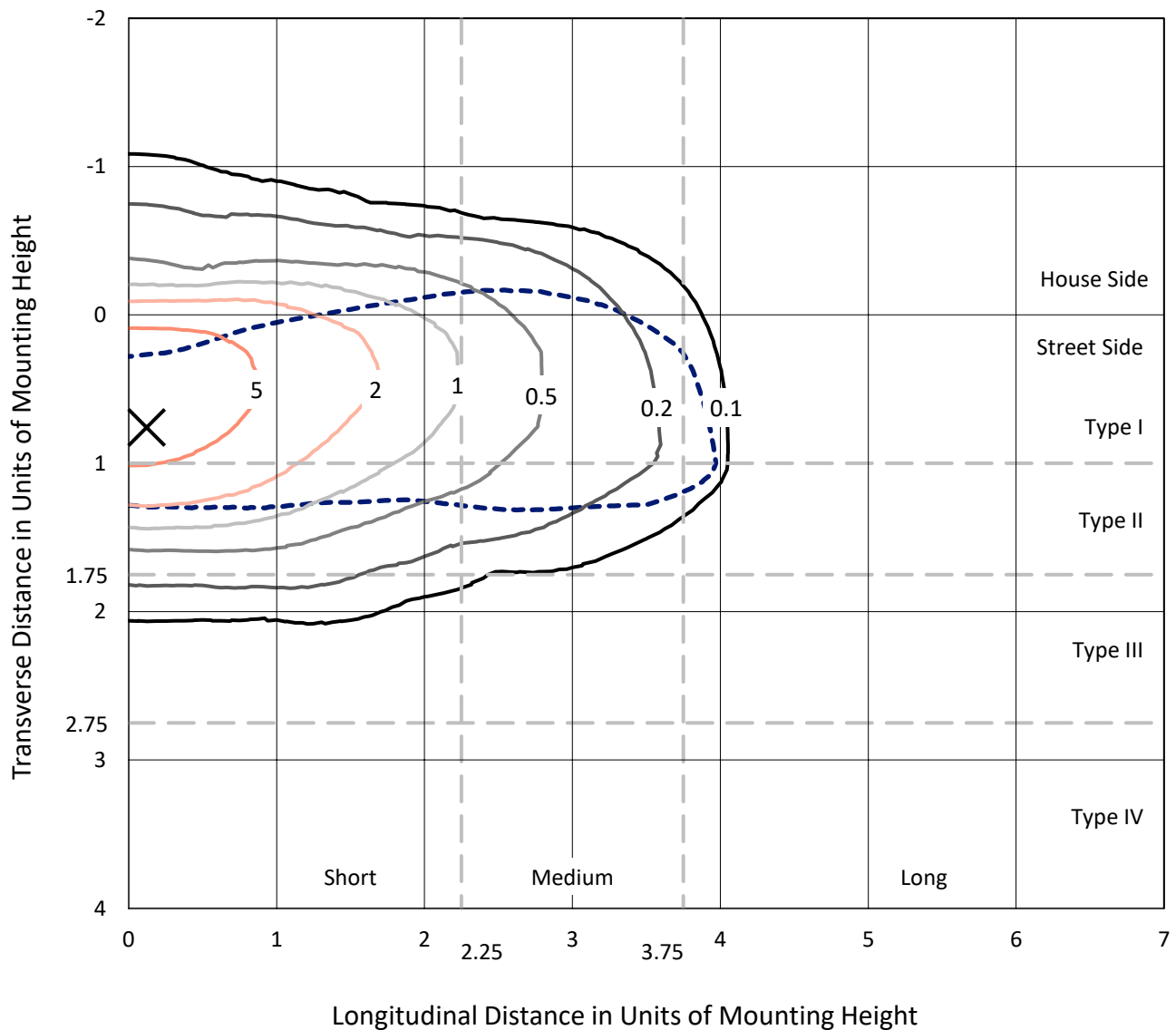
Input Watts (W): 170.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P836324
CATALOG NUMBER: ARCH3-170-730-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

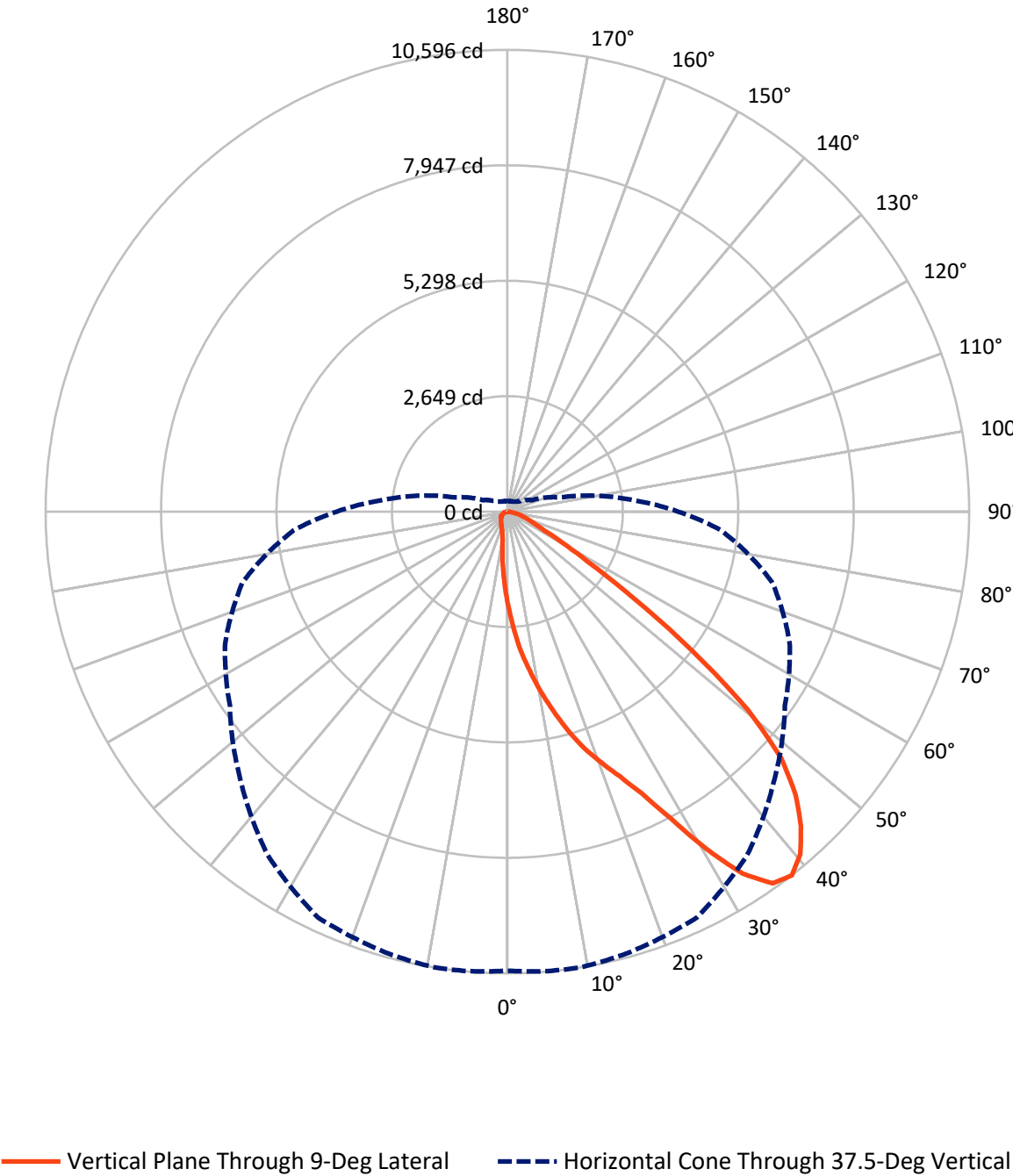
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
Type II - Short - N/A

REPORT NUMBER: P836324
CATALOG NUMBER: ARCH3-170-730-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P836324

CATALOG NUMBER: ARCH3-170-730-U-T2R-HSS

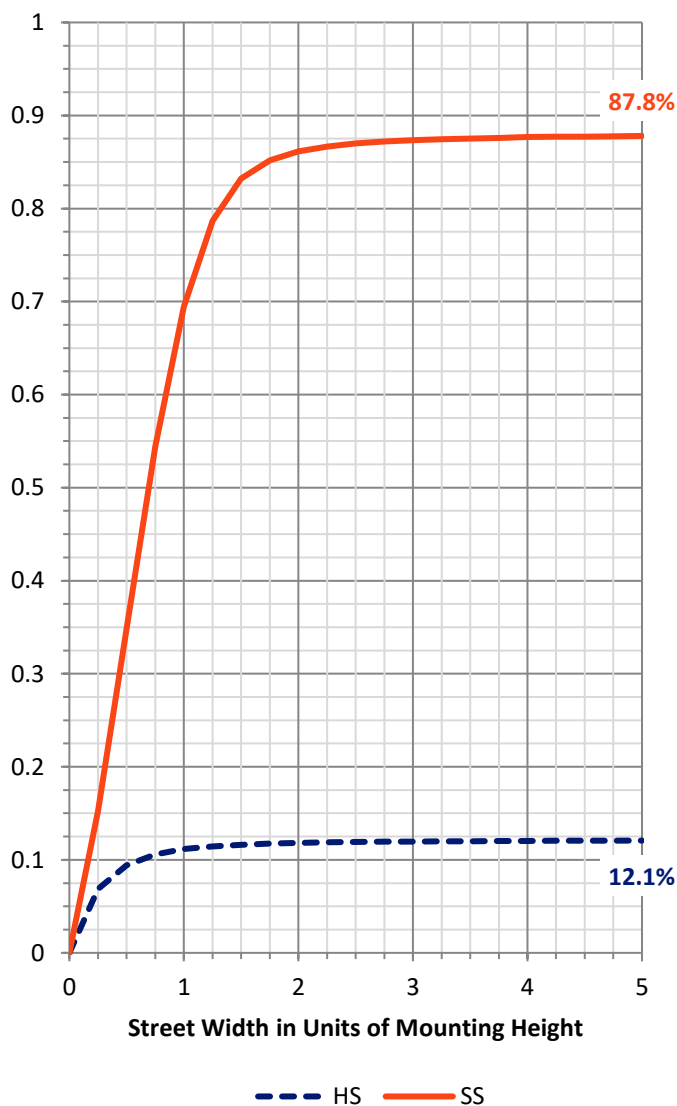
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1976.7	0.0	1976.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	14276.4	0.0	14276.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	16253.0	0.0	16253.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.0	1.3
10°-20°	750.6	4.6
20°-30°	1542.3	9.5
30°-40°	2726.1	16.8
40°-50°	3621.4	22.3
50°-60°	3434.6	21.1
60°-70°	2620.3	16.1
70°-80°	1270.3	7.8
80°-90°	71.5	0.4
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°	16253.0	100.0
0°-180°	16253.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836324

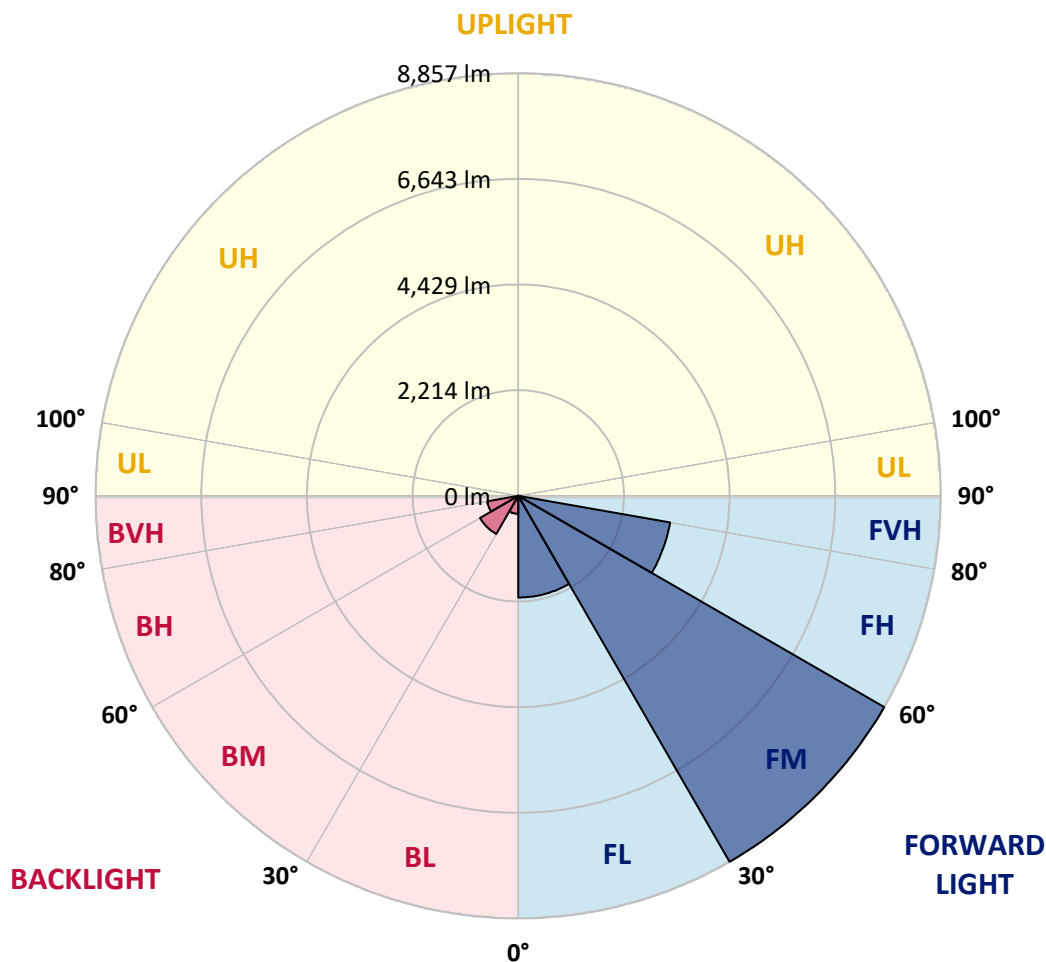
CATALOG NUMBER: ARCH3-170-730-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2131.6	13.1			
FM	(30°-60°)	8857.1	54.5			
FH	(60°-80°)	3231.1	19.9			G2/5000
FVH	(80°-90°)	56.6	0.3			G1/100
BL	(0°-30°)	377.2	2.3	B1/500		
BM	(30°-60°)	924.9	5.7	B1/1000		
BH	(60°-80°)	659.6	4.1	B2/1000		G2/1000
BVH	(80°-90°)	14.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P836324

CATALOG NUMBER: ARCH3-170-730-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4
2.5°	2662.2	2615.5	2668.9	2662.2	2615.5	2585.5	2492.1	2462.0	2352.0	2271.9	2201.8
5°	3209.3	3162.6	3209.3	3196.0	3129.3	3055.9	2902.4	2802.3	2605.5	2432.0	2275.2
7.5°	3663.0	3663.0	3683.1	3686.4	3606.3	3492.9	3302.7	3152.6	2875.7	2608.8	2358.6
10°	4153.4	4156.8	4200.2	4170.1	4063.4	3909.9	3669.7	3479.6	3145.9	2795.7	2438.7
12.5°	4677.2	4680.6	4693.9	4680.6	4553.8	4356.9	4066.7	3816.5	3432.8	3009.2	2548.8
15°	5201.0	5204.3	5221.0	5197.6	5057.5	4827.3	4497.1	4190.1	3736.4	3249.4	2682.2
17.5°	5691.4	5698.1	5711.4	5681.4	5534.6	5261.0	4924.1	4553.8	4060.0	3506.2	2832.4
20°	6131.8	6138.4	6148.4	6108.4	5961.6	5688.1	5324.4	4937.4	4390.3	3769.8	2995.8
22.5°	6575.5	6582.1	6598.8	6545.4	6382.0	6068.4	5711.4	5311.1	4740.6	4060.0	3186.0
25°	7142.6	7149.3	7162.6	7085.9	6862.4	6495.4	6118.4	5708.1	5120.9	4387.0	3419.5
27.5°	7973.3	7966.6	7966.6	7826.5	7442.8	6965.8	6528.8	6111.7	5531.3	4737.3	3676.4
30°	9000.8	8984.1	8974.1	8784.0	8236.8	7496.2	6949.1	6488.7	5924.9	5107.6	3953.3
32.5°	9921.6	9921.6	9901.6	9701.4	9120.9	8210.1	7396.1	6855.7	6305.2	5481.2	4240.2
35°	10465.4	10488.7	10478.7	10328.6	9904.9	8977.5	8000.0	7296.1	6705.6	5871.5	4583.8
37.5°	10538.7	10585.5	10595.5	10505.4	10281.9	9604.6	8670.5	7773.1	7145.9	6291.9	4917.4
40°	10241.8	10341.9	10341.9	10328.6	10248.5	9901.6	9234.3	8326.9	7599.6	6728.9	5254.4
42.5°	9784.8	9888.2	9874.9	9924.9	9904.9	9831.5	9551.3	8844.0	8053.4	7179.3	5561.3
45°	9187.6	9294.4	9267.7	9357.8	9397.8	9477.9	9517.9	9204.3	8500.4	7669.7	5904.9
47.5°	8230.2	8410.3	8450.3	8610.5	8777.3	9027.5	9217.7	9334.4	8917.4	8196.8	6278.5
50°	6815.7	7069.2	7149.3	7486.2	7943.3	8460.4	8767.3	9174.3	9211.0	8737.3	6682.2
52.5°	4880.7	5174.3	5297.7	5851.5	6792.3	7693.1	8246.8	8820.7	9324.4	9254.3	7119.2
55°	3156.0	3406.2	3526.3	4046.7	5297.7	6712.2	7633.0	8363.6	9261.0	9728.1	7619.7
57.5°	1944.9	2088.4	2168.5	2615.5	3766.5	5454.5	6829.0	7943.3	9067.5	10138.4	8140.1
60°	1311.1	1394.5	1434.5	1644.7	2558.8	4076.7	5724.8	7502.9	8814.0	10415.3	8613.8
62.5°	870.7	897.4	937.4	1067.6	1688.1	2862.4	4397.0	6715.6	8623.8	10432.0	8964.1
65°	673.9	687.2	703.9	760.6	1040.9	2001.7	3092.6	5441.2	8340.3	10078.4	9074.2
67.5°	530.4	543.8	563.8	593.8	754.0	1357.8	2105.1	3986.6	7759.8	9524.6	8894.0
70°	417.0	427.0	440.4	467.1	587.2	984.2	1391.2	2648.9	6588.8	8997.5	8326.9
72.5°	330.3	340.3	353.6	380.3	477.1	720.6	954.1	1651.4	5080.9	8353.6	7236.0
75°	260.2	266.9	276.9	303.6	383.7	560.5	647.2	987.5	3452.9	7176.0	5638.0
77.5°	130.1	160.1	183.5	210.2	280.2	387.0	430.4	547.1	1457.9	3683.1	2688.9
80°	76.7	93.4	100.1	116.8	183.5	233.5	233.5	220.2	460.4	1414.5	1097.6
82.5°	43.4	60.0	63.4	66.7	110.1	133.4	106.8	80.1	93.4	473.7	320.3
85°	13.3	20.0	23.4	26.7	36.7	40.0	36.7	33.4	26.7	46.7	30.0
87.5°	0.0	0.0	0.0	0.0	3.3	6.7	6.7	6.7	10.0	10.0	10.0
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: P836324

CATALOG NUMBER: ARCH3-170-730-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4
2.5°	2161.8	2118.4	2035.0	1958.3	1884.9	1831.5	1781.5	1734.8	1701.4	1674.7	1671.4
5°	2191.8	2105.1	1944.9	1794.8	1658.0	1544.6	1447.9	1371.1	1314.4	1274.4	1271.1
7.5°	2231.9	2098.4	1854.9	1631.4	1427.9	1264.4	1124.3	1020.8	947.5	917.4	894.1
10°	2265.2	2091.7	1764.8	1467.9	1201.0	994.2	827.4	723.9	670.6	650.5	640.5
12.5°	2321.9	2098.4	1688.1	1317.8	1004.2	760.6	633.9	577.1	553.8	537.1	533.8
15°	2405.3	2128.4	1614.7	1171.0	804.0	613.8	540.4	503.8	480.4	477.1	473.7
17.5°	2488.7	2155.1	1548.0	1020.8	667.2	533.8	483.7	453.7	437.0	433.7	433.7
20°	2585.5	2188.5	1474.6	877.4	570.5	480.4	440.4	417.0	397.0	393.7	393.7
22.5°	2698.9	2235.2	1404.5	750.6	507.1	440.4	407.0	380.3	363.6	360.3	360.3
25°	2852.4	2305.2	1347.8	657.2	463.7	407.0	377.0	353.6	340.3	333.6	333.6
27.5°	3022.5	2402.0	1307.8	600.5	433.7	380.3	350.3	330.3	316.9	310.3	310.3
30°	3212.7	2508.7	1281.1	577.1	417.0	357.0	330.3	310.3	293.6	290.2	290.2
32.5°	3422.8	2632.2	1264.4	580.5	413.7	340.3	310.3	290.2	276.9	270.2	270.2
35°	3656.4	2769.0	1254.4	600.5	420.3	326.9	293.6	273.6	260.2	253.5	253.5
37.5°	3916.6	2929.1	1254.4	620.5	437.0	323.6	276.9	256.9	246.9	240.2	240.2
40°	4160.1	3099.2	1267.7	643.9	453.7	323.6	263.6	246.9	233.5	226.9	226.9
42.5°	4350.3	3196.0	1277.7	667.2	463.7	320.3	250.2	233.5	223.5	216.8	216.8
45°	4567.1	3299.4	1257.7	677.2	463.7	313.6	240.2	223.5	213.5	206.8	206.8
47.5°	4807.3	3426.2	1254.4	683.9	453.7	300.2	230.2	213.5	206.8	200.2	200.2
50°	5050.9	3566.3	1261.0	680.6	440.4	280.2	216.8	206.8	196.8	190.2	190.2
52.5°	5327.8	3713.1	1274.4	673.9	410.3	256.9	206.8	196.8	186.8	180.1	176.8
55°	5634.7	3873.2	1301.1	660.5	370.3	233.5	196.8	186.8	173.5	166.8	163.5
57.5°	5988.3	4070.0	1331.1	633.9	326.9	213.5	186.8	173.5	153.5	143.5	140.1
60°	6325.3	4293.6	1364.5	570.5	283.6	193.5	176.8	156.8	136.8	130.1	126.8
62.5°	6642.2	4513.7	1381.1	457.0	240.2	176.8	166.8	143.5	123.4	116.8	113.4
65°	6845.7	4753.9	1344.4	310.3	196.8	163.5	153.5	133.4	113.4	103.4	103.4
67.5°	6859.0	4867.4	1217.7	203.5	160.1	146.8	140.1	120.1	100.1	93.4	90.1
70°	6522.1	4697.2	930.8	160.1	133.4	126.8	126.8	106.8	86.7	80.1	76.7
72.5°	5748.1	4160.1	593.8	130.1	113.4	106.8	106.8	90.1	76.7	66.7	63.4
75°	4537.1	3209.3	316.9	106.8	93.4	90.1	83.4	73.4	63.4	56.7	53.4
77.5°	2085.1	1414.5	146.8	76.7	70.1	70.1	63.4	53.4	50.0	43.4	43.4
80°	824.0	480.4	73.4	50.0	46.7	46.7	46.7	36.7	36.7	30.0	26.7
82.5°	226.9	100.1	36.7	30.0	30.0	30.0	26.7	23.4	23.4	20.0	20.0
85°	23.4	16.7	16.7	16.7	16.7	13.3	13.3	10.0	6.7	6.7	6.7
87.5°	10.0	10.0	10.0	10.0	10.0	6.7	3.3	0.0	0.0	0.0	0.0
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)