

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: P836069

Luminaire Tested: **ARCH3-130-750-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-130-750-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13867 lumens
Efficiency: N/A
Efficacy: 104.6 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



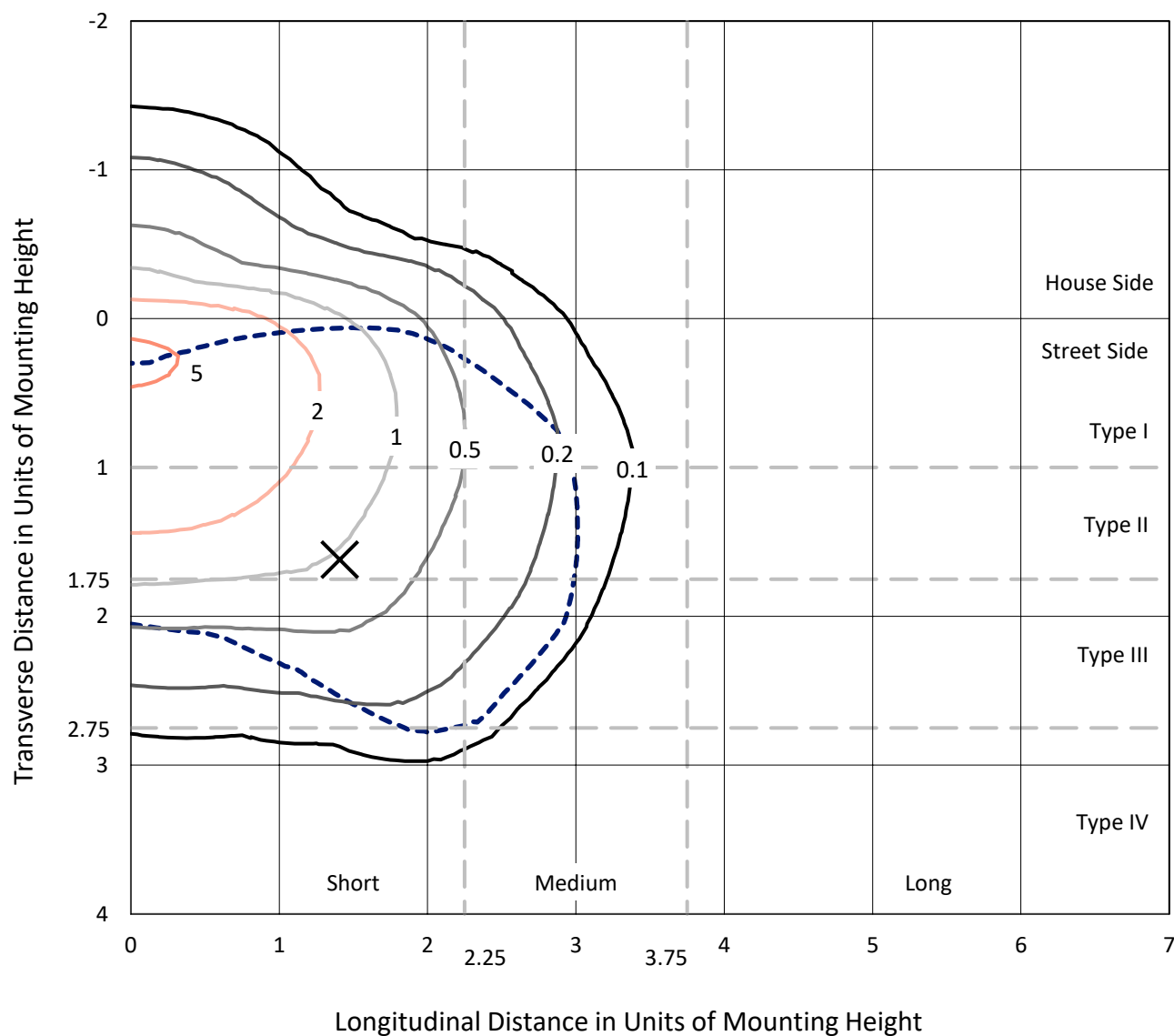
REPORT NUMBER: P836069

CATALOG NUMBER: ARCH3-130-750-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

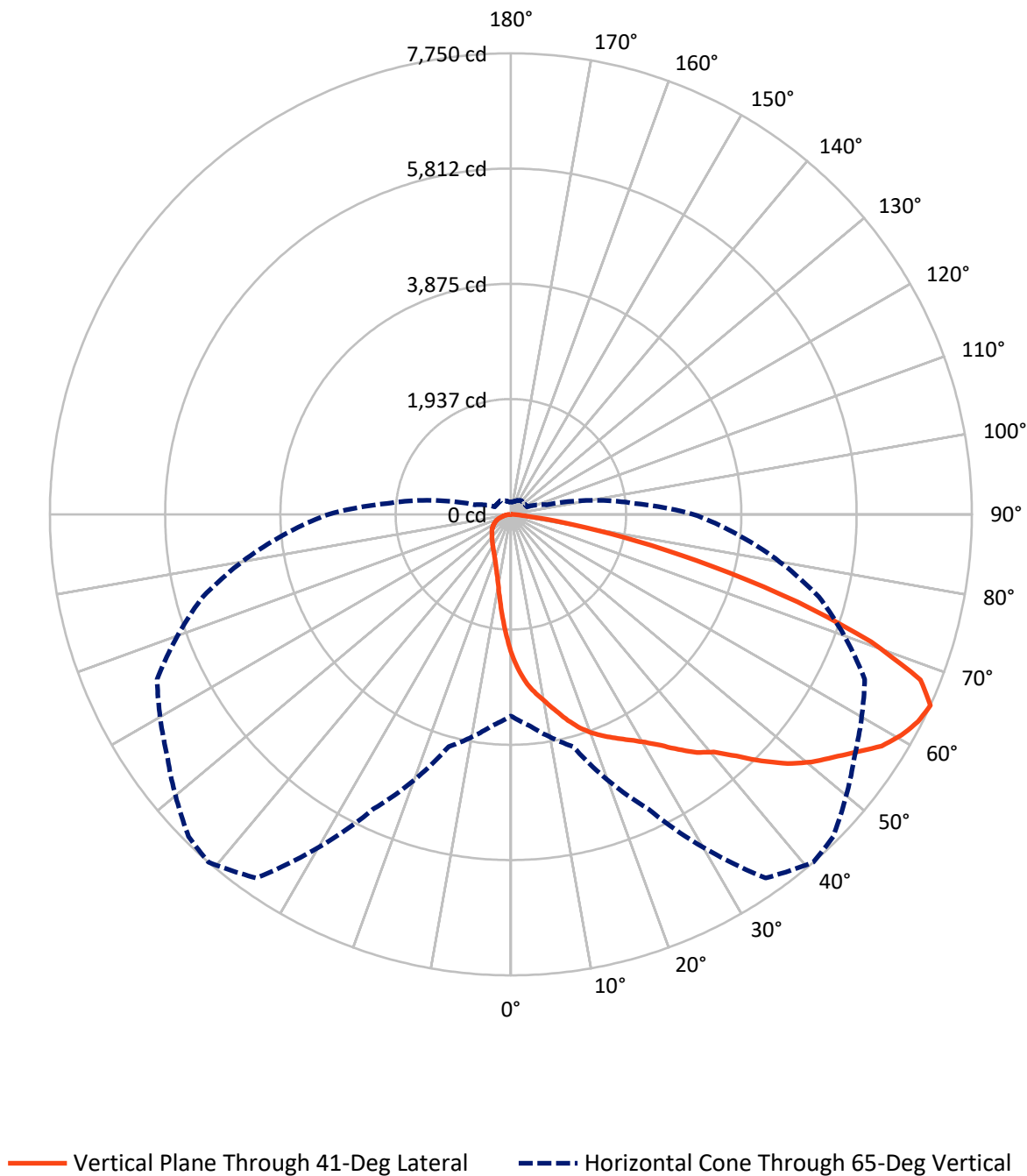


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc

Type III - Short - N/A

REPORT NUMBER: P836069
CATALOG NUMBER: ARCH3-130-750-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P836069

CATALOG NUMBER: ARCH3-130-750-U-T4W-HSS

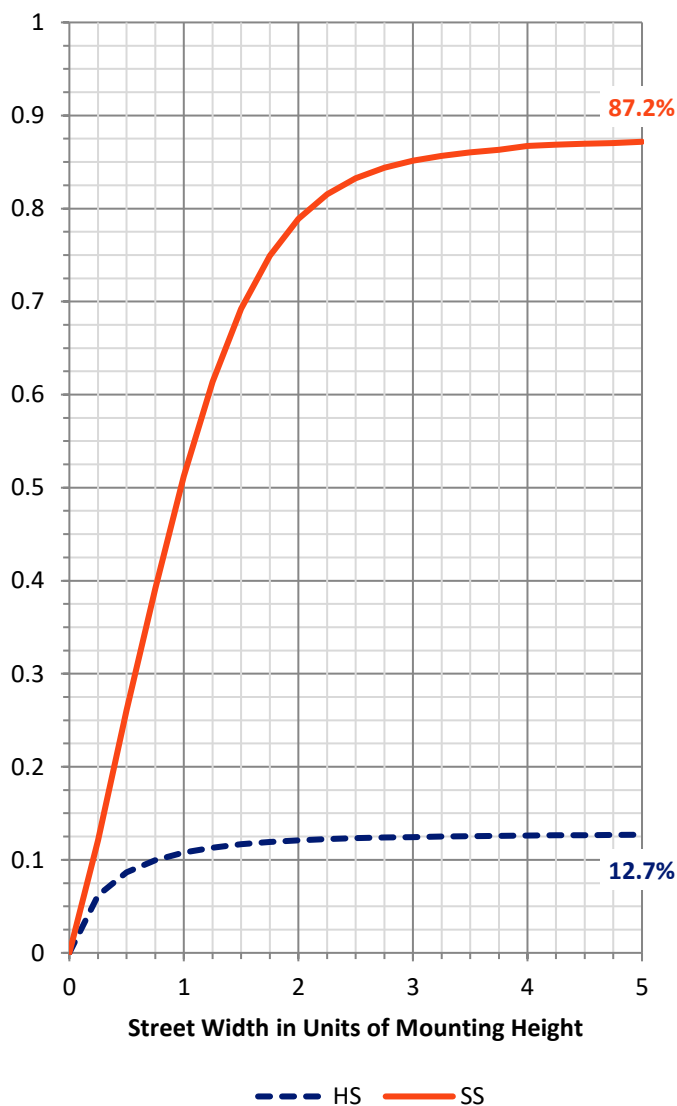
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1780.3	0.0	1780.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	12086.7	0.0	12086.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	13867.0	0.0	13867.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.2	1.6
10°-20°	660.2	4.8
20°-30°	1135.7	8.2
30°-40°	1722.5	12.4
40°-50°	2523.5	18.2
50°-60°	3186.6	23.0
60°-70°	2988.0	21.5
70°-80°	1331.8	9.6
80°-90°	98.7	0.7
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°	13867.0	100.0
0°-180°	13867.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836069

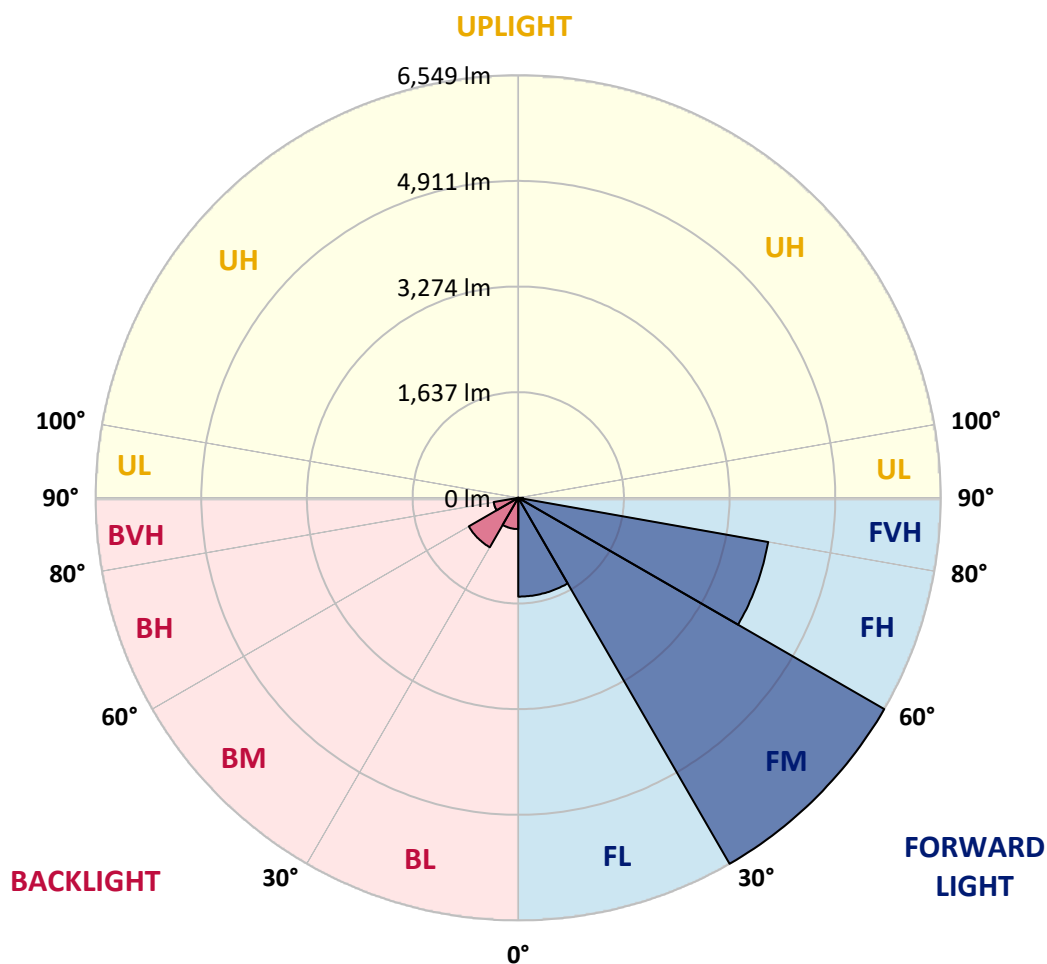
CATALOG NUMBER: ARCH3-130-750-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1531.4	11.0			
FM	(30°-60°)	6548.5	47.2			
FH	(60°-80°)	3933.0	28.4			G2/5000
FVH	(80°-90°)	73.7	0.5			G1/100
BL	(0°-30°)	484.6	3.5	B1/500		
BM	(30°-60°)	884.0	6.4	B1/1000		
BH	(60°-80°)	386.7	2.8	B1/500		G1/500
BVH	(80°-90°)	25.0	0.2			G1/100
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: P836069

CATALOG NUMBER: ARCH3-130-750-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2362.9	2362.9	2362.9	2362.9	2362.9	2362.9	2362.9	2362.9	2362.9	2362.9	2362.9
2.5°	2725.5	2716.7	2710.9	2678.7	2678.7	2634.8	2637.8	2596.8	2547.1	2468.1	2383.3
5°	2982.8	2971.1	2956.5	2924.3	2912.6	2868.8	2862.9	2804.4	2719.6	2582.2	2430.1
7.5°	3208.0	3196.3	3175.8	3129.0	3096.9	3044.2	3029.6	2953.6	2860.0	2690.4	2476.9
10°	3412.7	3403.9	3377.6	3319.1	3275.3	3210.9	3184.6	3082.3	2965.3	2778.1	2514.9
12.5°	3620.3	3608.6	3573.5	3523.8	3471.2	3395.2	3363.0	3231.4	3082.3	2874.6	2570.5
15°	3813.3	3795.8	3769.5	3716.8	3670.0	3596.9	3561.8	3406.9	3225.5	2982.8	2643.6
17.5°	3939.1	3924.5	3901.1	3871.8	3833.8	3778.2	3743.2	3591.1	3368.8	3088.1	2719.6
20°	4015.1	4009.3	4000.5	3982.9	3965.4	3927.4	3901.1	3757.8	3523.8	3190.5	2792.7
22.5°	4073.6	4067.8	4064.8	4064.8	4067.8	4053.1	4035.6	3912.8	3673.0	3298.7	2860.0
25°	4164.3	4161.3	4155.5	4149.6	4170.1	4173.0	4167.2	4082.4	3860.1	3441.9	2944.8
27.5°	4290.0	4281.2	4269.5	4263.7	4284.2	4298.8	4310.5	4252.0	4059.0	3588.2	3041.3
30°	4483.0	4456.7	4427.4	4407.0	4421.6	4445.0	4471.3	4436.2	4263.7	3769.5	3140.7
32.5°	4711.1	4678.9	4611.7	4573.7	4611.7	4629.2	4649.7	4632.1	4477.2	3965.4	3240.2
35°	4988.9	4950.9	4880.7	4825.2	4892.4	4854.4	4845.6	4828.1	4678.9	4158.4	3351.3
37.5°	5451.0	5395.4	5284.3	5161.5	5161.5	5079.6	5047.4	4994.8	4860.2	4330.9	3459.5
40°	5986.1	5913.0	5769.7	5588.4	5421.7	5252.1	5231.6	5193.6	5073.7	4529.8	3582.3
42.5°	6573.9	6433.5	6234.7	6015.4	5746.3	5553.3	5506.5	5398.3	5281.4	4731.6	3705.1
45°	7226.0	6933.6	6644.1	6533.0	6088.5	5913.0	5825.3	5629.3	5497.8	4942.1	3833.8
47.5°	7331.3	7103.2	6910.2	6892.7	6407.2	6261.0	6161.6	5880.8	5731.7	5167.3	3968.3
50°	7272.8	7135.4	7155.9	7085.7	6641.2	6544.7	6468.6	6149.9	5962.7	5383.7	4091.1
52.5°	7027.2	7103.2	7220.2	7091.5	6863.4	6784.5	6746.4	6439.4	6179.1	5582.6	4202.3
55°	6734.7	6787.4	7038.9	7196.8	7120.8	7050.6	7015.5	6775.7	6392.6	5749.2	4304.6
57.5°	6307.8	6284.4	6562.2	7179.2	7389.8	7348.9	7310.8	7106.1	6591.5	5869.1	4369.0
60°	5667.4	5617.7	5968.6	6828.3	7477.5	7541.9	7524.3	7325.5	6743.5	5866.2	4342.6
62.5°	4559.0	4681.9	5167.3	6255.2	7515.5	7679.3	7647.1	7343.0	6793.2	5696.6	4176.0
65°	3389.3	3564.8	4041.4	5465.6	7462.9	7749.5	7661.8	7056.4	6562.2	5360.3	3810.4
67.5°	2441.8	2596.8	2944.8	4497.6	6957.0	7427.8	7325.5	6588.5	6030.0	4883.6	3304.5
70°	1669.8	1780.9	2017.8	3275.3	5939.3	6421.8	6357.5	5889.6	5190.7	4316.3	2684.5
72.5°	1178.5	1225.3	1377.4	2161.1	4512.3	5038.6	4962.6	4845.6	4170.1	3588.2	2088.0
75°	883.1	912.4	994.3	1397.8	3044.2	3491.7	3421.5	3488.7	3114.4	2716.7	1520.7
77.5°	333.4	362.6	564.4	891.9	1801.4	2143.5	2073.4	2114.3	1731.2	1371.5	757.4
80°	90.7	96.5	187.2	424.0	818.8	1067.4	970.9	833.4	643.4	631.7	400.6
82.5°	38.0	43.9	84.8	228.1	292.4	292.4	245.6	304.1	245.6	295.4	193.0
85°	14.6	17.5	20.5	58.5	38.0	40.9	43.9	58.5	49.7	61.4	43.9
87.5°	0.0	0.0	0.0	2.9	2.9	5.8	2.9	5.8	8.8	8.8	8.8
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: P836069

CATALOG NUMBER: ARCH3-130-750-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2362.9	2362.9	2362.9	2362.9	2362.9	2362.9	2362.9	2362.9	2362.9	2362.9	2362.9
2.5°	2348.2	2316.1	2269.3	2193.3	2114.3	2070.4	2014.9	2006.1	1947.6	1941.8	1918.4
5°	2362.9	2295.6	2175.7	2029.5	1886.2	1775.1	1693.2	1649.3	1564.5	1564.5	1541.1
7.5°	2374.6	2269.3	2076.3	1859.9	1663.9	1514.8	1403.7	1356.9	1280.9	1275.0	1257.5
10°	2377.5	2237.1	1968.1	1687.3	1447.5	1295.5	1187.3	1134.6	1067.4	1061.5	1049.8
12.5°	2400.9	2219.6	1871.6	1538.2	1292.6	1128.8	1023.5	979.7	927.0	921.2	909.5
15°	2438.9	2219.6	1789.7	1412.5	1155.1	1003.0	912.4	871.5	833.4	827.6	821.7
17.5°	2476.9	2213.7	1707.8	1295.5	1041.1	903.6	824.7	792.5	763.3	760.3	754.5
20°	2512.0	2210.8	1625.9	1196.1	953.3	821.7	760.3	731.1	707.7	707.7	704.8
22.5°	2547.1	2205.0	1547.0	1102.5	877.3	760.3	707.7	675.5	658.0	658.0	655.1
25°	2599.7	2205.0	1473.9	1023.5	815.9	713.5	660.9	637.5	622.9	620.0	620.0
27.5°	2661.1	2222.5	1409.5	953.3	763.3	666.7	625.8	602.4	584.9	579.0	581.9
30°	2728.4	2237.1	1351.0	891.9	713.5	631.7	587.8	564.4	546.9	541.0	543.9
32.5°	2795.7	2254.7	1298.4	836.4	663.8	599.5	555.6	529.3	511.8	508.8	508.8
35°	2868.8	2272.2	1245.8	789.6	622.9	567.3	526.4	497.1	485.4	479.6	482.5
37.5°	2941.9	2301.5	1196.1	745.7	593.6	538.1	500.1	470.8	462.0	459.1	459.1
40°	3029.6	2345.3	1175.6	716.5	567.3	511.8	479.6	450.3	441.6	441.6	441.6
42.5°	3102.7	2380.4	1158.0	684.3	546.9	488.4	459.1	435.7	429.9	427.0	429.9
45°	3175.8	2412.6	1134.6	655.1	520.5	465.0	441.6	418.2	412.3	412.3	412.3
47.5°	3248.9	2430.1	1102.5	625.8	497.1	444.5	424.0	403.6	397.7	397.7	397.7
50°	3307.4	2444.7	1055.7	593.6	470.8	427.0	406.5	386.0	380.2	380.2	380.2
52.5°	3365.9	2447.7	1006.0	555.6	444.5	406.5	388.9	368.5	362.6	359.7	359.7
55°	3418.5	2444.7	947.5	511.8	415.3	383.1	368.5	350.9	339.2	327.5	333.4
57.5°	3456.6	2441.8	880.2	467.9	386.0	359.7	353.8	330.5	307.1	277.8	283.7
60°	3441.9	2409.7	807.1	412.3	353.8	336.3	336.3	304.1	263.2	248.6	251.5
62.5°	3348.4	2319.0	731.1	353.8	321.7	312.9	310.0	274.9	242.7	228.1	231.0
65°	3067.6	2090.9	620.0	301.2	289.5	286.6	286.6	254.4	225.2	207.6	210.6
67.5°	2640.7	1754.6	505.9	254.4	257.3	263.2	263.2	233.9	204.7	187.2	190.1
70°	2117.2	1371.5	403.6	219.3	222.2	231.0	236.9	210.6	184.2	166.7	166.7
72.5°	1593.8	1041.1	324.6	184.2	198.9	198.9	207.6	187.2	160.8	143.3	146.2
75°	1155.1	745.7	257.3	155.0	172.5	169.6	169.6	157.9	137.4	125.7	125.7
77.5°	546.9	391.9	204.7	111.1	134.5	131.6	134.5	125.7	117.0	105.3	108.2
80°	269.0	193.0	131.6	79.0	93.6	96.5	105.3	99.4	96.5	87.7	87.7
82.5°	128.7	76.0	61.4	55.6	64.3	67.3	73.1	73.1	76.0	70.2	70.2
85°	35.1	20.5	26.3	35.1	40.9	43.9	49.7	52.6	52.6	49.7	52.6
87.5°	8.8	8.8	11.7	17.5	20.5	23.4	26.3	26.3	11.7	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)