

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: P841671

Luminaire Tested: **ARCH4-210-730-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-210-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21959 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 213.1
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



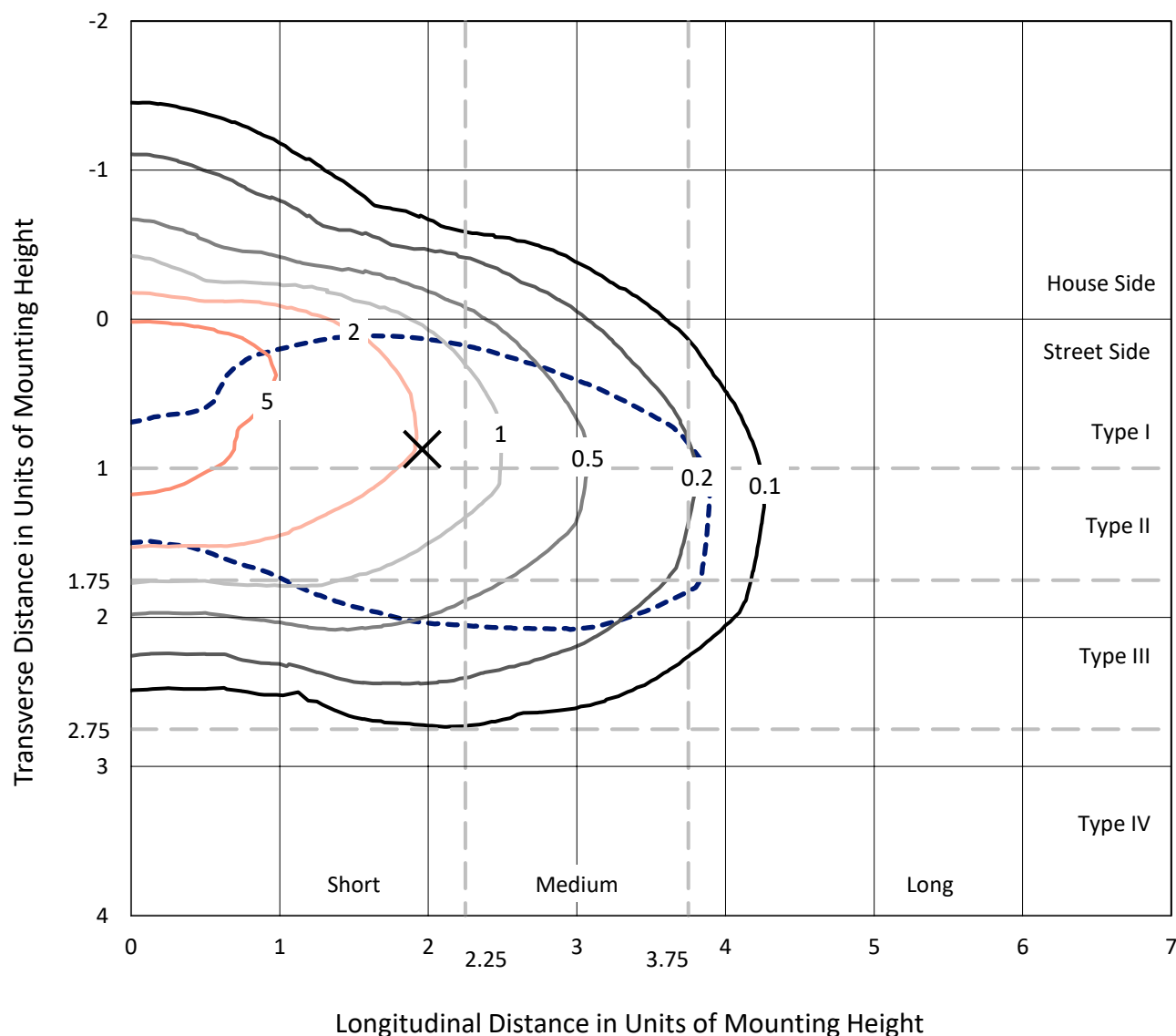
REPORT NUMBER: P841671

CATALOG NUMBER: ARCH4-210-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

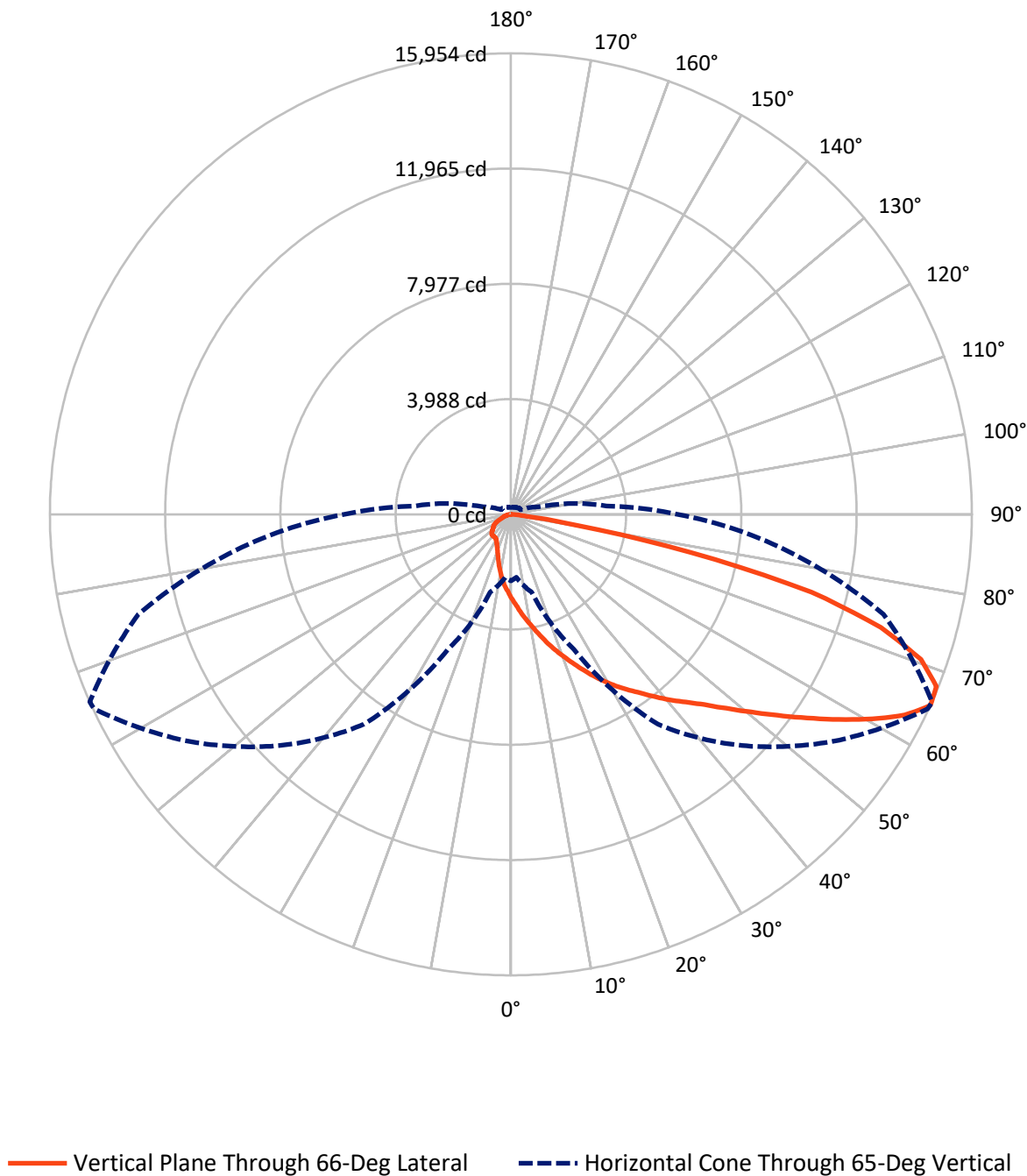


Based on 25 foot mounting height. Maximum calculated value = 8.4 fc

Type III - Short - N/A

REPORT NUMBER: P841671
CATALOG NUMBER: ARCH4-210-730-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P841671

CATALOG NUMBER: ARCH4-210-730-U-T3-HSS

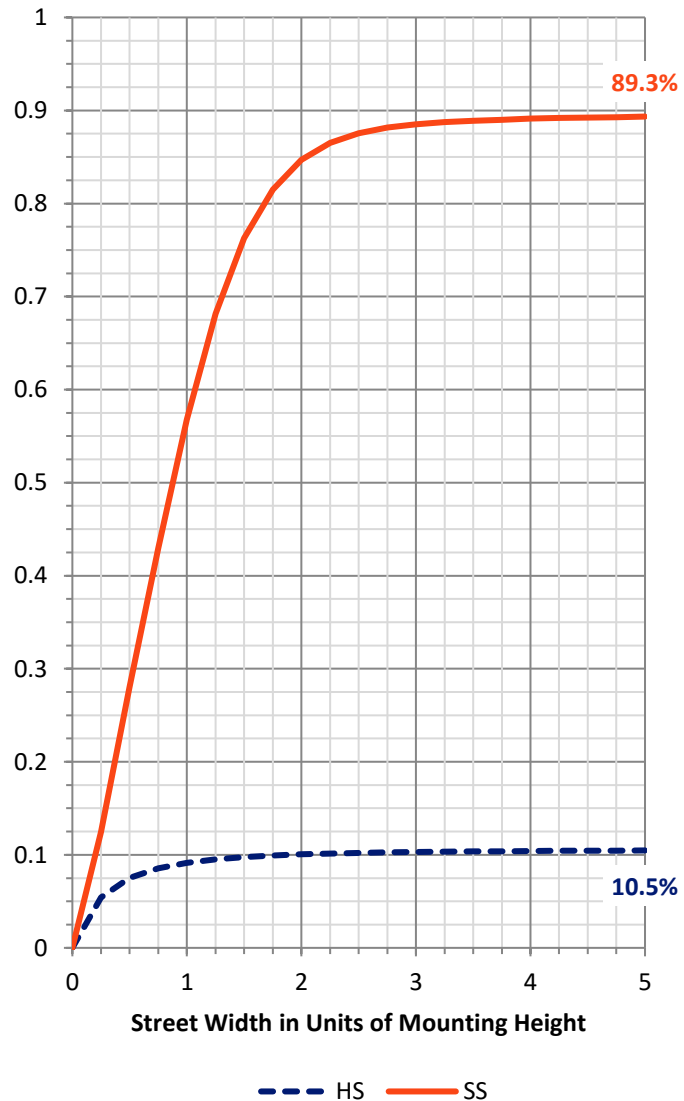
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2322.7	0.0	2322.7
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	19636.3	0.0	19636.3
	% Fixture	89.4	0.0	89.4
Total	Lumens	21959.0	0.0	21959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.8	1.3
10°-20°	934.9	4.3
20°-30°	1691.5	7.7
30°-40°	2645.1	12.0
40°-50°	4012.5	18.3
50°-60°	5098.1	23.2
60°-70°	4763.6	21.7
70°-80°	2367.5	10.8
80°-90°	159.1	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°	21959.0	100.0
0°-180°	21959.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841671

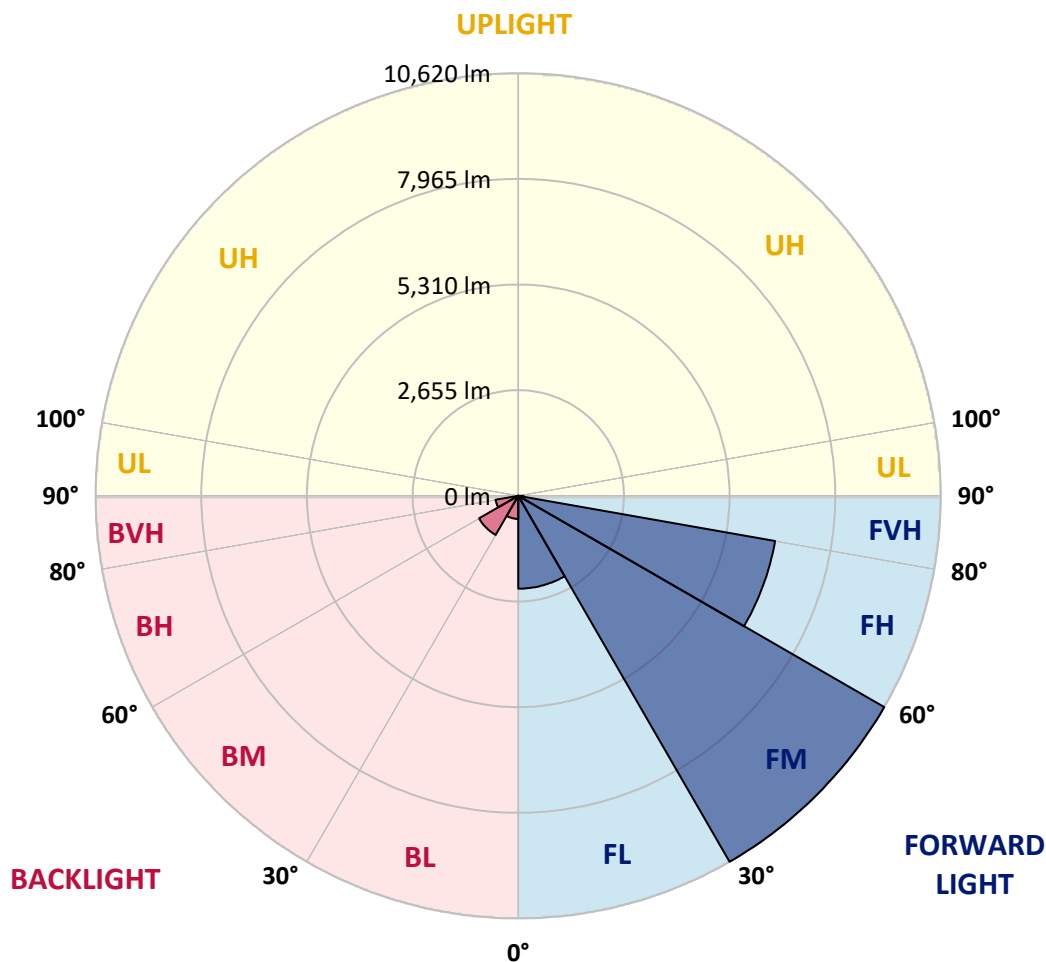
CATALOG NUMBER: ARCH4-210-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2333.1	10.6			
FM	(30°-60°)	10619.6	48.4			
FH	(60°-80°)	6552.7	29.8			G3/7500
FVH	(80°-90°)	130.9	0.6			G2/225
BL	(0°-30°)	580.1	2.6	B2/1000		
BM	(30°-60°)	1136.0	5.2	B2/2500		
BH	(60°-80°)	578.4	2.6	B2/1000		G2/1000
BVH	(80°-90°)	28.2	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-G3

Type III Short



REPORT NUMBER: P841671

CATALOG NUMBER: ARCH4-210-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2906.2	2906.2	2906.2	2906.2	2906.2	2906.2	2906.2	2906.2	2906.2	2906.2	2906.2
2.5°	3394.4	3422.0	3435.8	3440.4	3334.5	3288.4	3242.4	3136.4	3113.4	3053.5	2975.2
5°	3993.1	4029.9	4020.7	4002.3	3873.3	3726.0	3606.2	3408.2	3375.9	3233.2	3058.1
7.5°	4582.6	4614.8	4605.6	4536.5	4393.8	4186.5	3988.5	3698.3	3652.3	3422.0	3141.0
10°	5075.4	5103.0	5098.4	5029.3	4858.9	4605.6	4366.1	3979.3	3924.0	3597.0	3210.1
12.5°	5480.7	5517.5	5512.9	5466.9	5314.9	5038.6	4766.8	4301.7	4232.6	3808.9	3306.8
15°	5798.5	5844.5	5844.5	5826.1	5720.2	5489.9	5181.3	4656.3	4573.4	4053.0	3426.6
17.5°	5991.9	6028.8	6061.0	6093.2	6019.6	5844.5	5563.6	5010.9	4923.4	4292.4	3550.9
20°	6093.2	6130.1	6153.1	6222.2	6236.0	6148.5	5927.4	5361.0	5268.8	4564.2	3693.7
22.5°	6259.1	6291.3	6295.9	6355.8	6383.4	6406.4	6268.3	5706.4	5632.7	4863.5	3854.9
25°	6535.4	6572.2	6558.4	6586.1	6590.7	6618.3	6604.5	6102.5	6028.8	5204.4	4048.3
27.5°	6890.0	6936.1	6926.9	6899.2	6857.8	6834.8	6894.6	6503.2	6434.1	5545.2	4246.4
30°	7272.3	7327.6	7313.7	7258.5	7147.9	7051.2	7134.1	6880.8	6816.3	5895.2	4467.5
32.5°	7659.2	7723.6	7719.0	7626.9	7438.1	7272.3	7396.6	7235.4	7189.4	6272.9	4707.0
35°	7912.5	7995.4	7986.2	7930.9	7686.8	7544.0	7696.0	7599.3	7567.1	6733.4	5052.4
37.5°	8322.4	8409.9	8331.6	8193.4	7912.5	7838.8	8023.0	8009.2	7986.2	7221.6	5416.2
40°	9317.2	9446.1	9238.9	8672.4	8211.8	8147.4	8409.9	8465.1	8442.1	7705.2	5743.2
42.5°	10358.1	10551.5	10229.1	9446.1	8755.3	8520.4	8833.6	8911.9	8884.3	8119.7	6038.0
45°	10989.0	11071.9	10749.5	10141.6	9717.9	8971.8	9285.0	9413.9	9390.9	8617.1	6415.6
47.5°	11504.9	11472.6	11104.2	10694.3	10772.6	9607.3	9796.2	10049.5	10031.1	9165.2	6830.2
50°	11615.4	11541.7	11394.3	11136.4	11343.7	10252.1	10335.0	10772.6	10754.1	9773.1	7249.3
52.5°	10837.0	10740.3	11141.0	11357.5	11288.4	10721.9	10929.2	11564.7	11555.5	10431.8	7650.0
55°	8893.5	8815.2	9892.9	11012.1	11228.5	11053.5	11587.8	12389.1	12439.8	11131.8	8013.8
57.5°	6996.0	6913.1	7972.3	10146.2	11007.5	11357.5	12356.9	13333.3	13397.8	11891.7	8359.2
60°	5577.4	5453.1	6263.7	8782.9	10593.0	11592.4	13098.4	14369.6	14378.8	12587.2	8571.1
62.5°	3790.4	3652.3	4550.4	7055.8	9897.5	11629.2	13669.5	15263.1	15299.9	13107.6	8607.9
65°	2302.8	2187.7	2795.6	5153.7	8870.4	11316.0	13678.7	15921.7	15953.9	13347.1	8386.9
67.5°	1335.6	1289.6	1598.2	3210.1	7166.4	10473.2	13103.0	15820.3	15880.2	13245.8	7884.8
70°	778.4	773.7	888.9	1588.9	5057.0	8801.4	11818.0	14968.3	15055.8	12716.1	7115.7
72.5°	571.1	580.3	626.4	852.0	2929.2	6337.3	10008.0	13255.0	13388.6	11679.9	6019.6
75°	451.4	456.0	497.4	580.3	1538.3	3583.2	7498.0	10639.0	10744.9	9833.0	4702.3
77.5°	336.2	345.4	377.7	409.9	713.9	1644.2	4218.8	6553.8	6378.8	5397.8	2270.6
80°	244.1	267.1	280.9	294.8	377.7	635.6	1266.5	2284.4	2266.0	2358.1	1073.1
82.5°	156.6	175.0	188.8	198.0	225.7	304.0	377.7	511.2	552.7	916.5	428.3
85°	69.1	78.3	87.5	105.9	96.7	105.9	156.6	101.3	87.5	138.2	78.3
87.5°	0.0	0.0	13.8	23.0	18.4	9.2	27.6	18.4	13.8	13.8	13.8
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: P841671

CATALOG NUMBER: ARCH4-210-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2906.2	2906.2	2906.2	2906.2	2906.2	2906.2	2906.2	2906.2	2906.2	2906.2	2906.2
2.5°	2933.8	2883.1	2777.2	2675.9	2616.0	2537.7	2468.6	2404.1	2399.5	2381.1	2348.9
5°	2970.6	2873.9	2675.9	2487.0	2344.3	2192.3	2063.3	1962.0	1925.2	1897.5	1860.7
7.5°	3007.5	2855.5	2560.7	2284.4	2058.7	1846.9	1694.9	1556.7	1515.3	1478.4	1455.4
10°	3021.3	2823.3	2427.2	2058.7	1764.0	1538.3	1377.1	1275.8	1238.9	1220.5	1206.7
12.5°	3062.7	2804.8	2302.8	1846.9	1506.0	1298.8	1183.6	1123.8	1110.0	1096.1	1082.3
15°	3118.0	2804.8	2178.5	1639.6	1303.4	1137.6	1068.5	1027.1	1017.8	1013.2	1004.0
17.5°	3177.9	2804.8	2058.7	1464.6	1156.0	1031.7	981.0	958.0	953.4	948.8	944.2
20°	3260.8	2809.4	1929.8	1312.6	1050.1	953.4	911.9	884.3	879.7	875.1	875.1
22.5°	3343.7	2818.6	1805.4	1197.5	981.0	893.5	842.8	815.2	806.0	806.0	806.0
25°	3449.6	2846.3	1690.3	1100.7	921.1	838.2	773.7	750.7	746.1	746.1	741.5
27.5°	3574.0	2878.5	1588.9	1027.1	861.3	773.7	709.3	686.2	677.0	677.0	672.4
30°	3707.5	2910.8	1506.0	971.8	801.4	709.3	649.4	621.8	612.5	617.2	612.5
32.5°	3854.9	2956.8	1441.6	934.9	746.1	654.0	598.7	566.5	561.9	561.9	557.3
35°	4103.6	3085.8	1432.4	916.5	700.1	612.5	557.3	525.0	520.4	520.4	515.8
37.5°	4370.7	3233.2	1473.8	907.3	663.2	575.7	525.0	492.8	488.2	488.2	488.2
40°	4596.4	3343.7	1519.9	907.3	640.2	543.5	497.4	469.8	469.8	469.8	469.8
42.5°	4748.4	3352.9	1510.6	907.3	621.8	520.4	479.0	451.4	451.4	456.0	451.4
45°	4974.1	3399.0	1473.8	893.5	607.9	502.0	460.6	437.5	432.9	437.5	437.5
47.5°	5241.2	3481.9	1437.0	838.2	603.3	483.6	446.7	419.1	414.5	419.1	414.5
50°	5494.5	3555.5	1418.5	764.5	594.1	465.2	428.3	400.7	396.1	400.7	396.1
52.5°	5706.4	3587.8	1386.3	713.9	571.1	446.7	409.9	382.3	373.1	377.7	377.7
55°	5876.8	3578.6	1340.2	672.4	529.6	428.3	386.9	363.8	350.0	350.0	345.4
57.5°	6033.4	3583.2	1298.8	631.0	483.6	400.7	368.5	340.8	322.4	317.8	313.2
60°	6093.2	3560.2	1225.1	575.7	437.5	377.7	345.4	313.2	294.8	290.2	285.5
62.5°	6010.3	3477.3	1128.4	479.0	396.1	350.0	322.4	290.2	271.7	267.1	262.5
65°	5775.5	3320.7	981.0	377.7	359.2	317.8	294.8	271.7	248.7	239.5	234.9
67.5°	5374.8	3095.0	796.8	304.0	317.8	290.2	276.3	248.7	221.1	211.9	207.3
70°	4803.7	2795.6	598.7	257.9	280.9	257.9	248.7	221.1	198.0	188.8	184.2
72.5°	4002.3	2312.0	419.1	221.1	244.1	225.7	216.5	198.0	175.0	161.2	161.2
75°	3025.9	1658.0	276.3	188.8	202.6	193.4	179.6	165.8	152.0	142.8	138.2
77.5°	1303.4	644.8	170.4	142.8	165.8	161.2	142.8	133.6	129.0	119.7	119.7
80°	561.9	262.5	105.9	105.9	119.7	115.1	110.5	101.3	101.3	96.7	92.1
82.5°	207.3	105.9	64.5	78.3	87.5	78.3	78.3	78.3	78.3	73.7	73.7
85°	50.7	32.2	32.2	46.1	50.7	46.1	50.7	46.1	46.1	46.1	41.5
87.5°	13.8	13.8	18.4	18.4	18.4	18.4	18.4	13.8	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)