

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: P841025

Luminaire Tested: **ARCH4-120-730-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-120-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14187 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

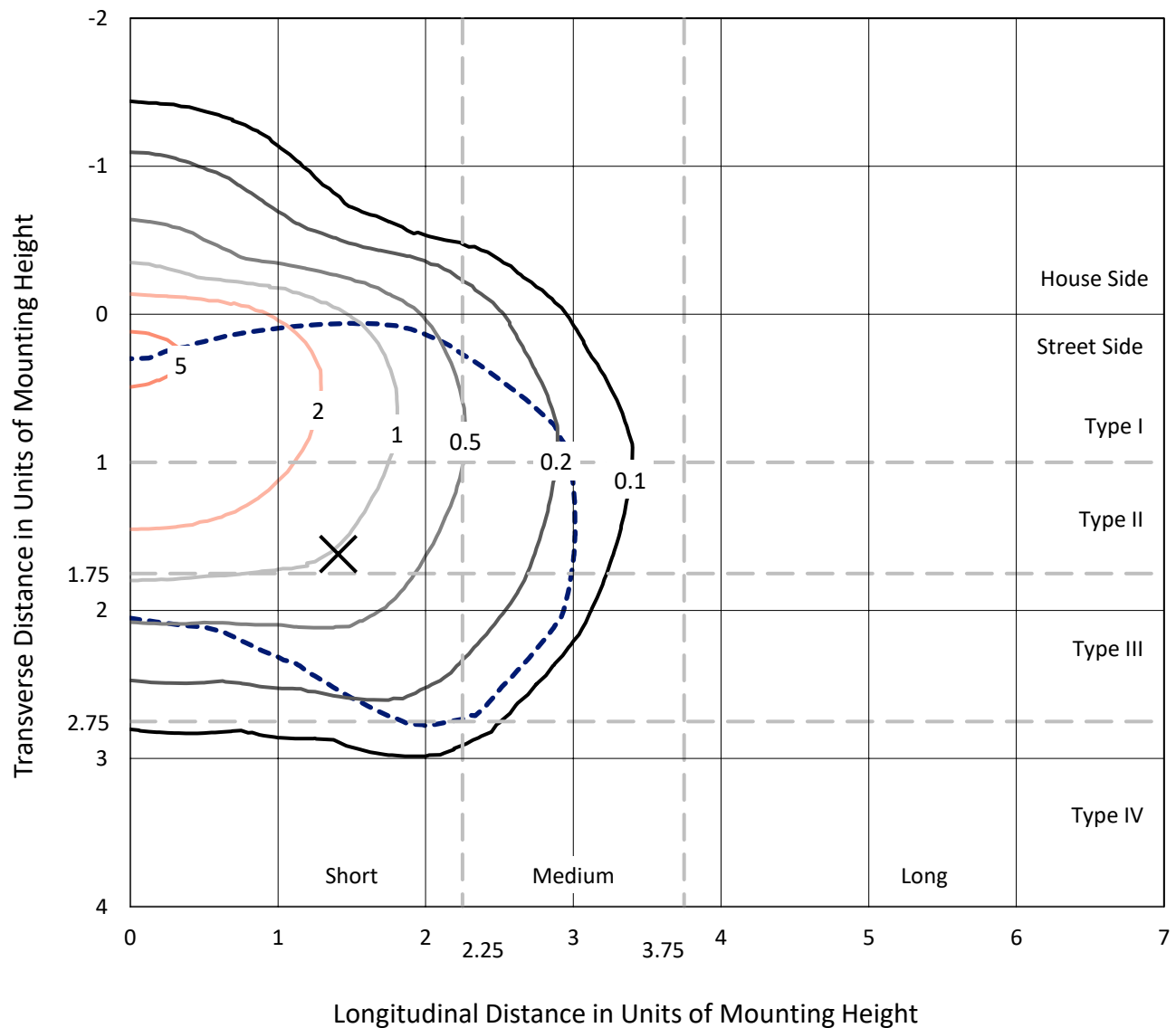
Input Watts (W): 122
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P841025
CATALOG NUMBER: ARCH4-120-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

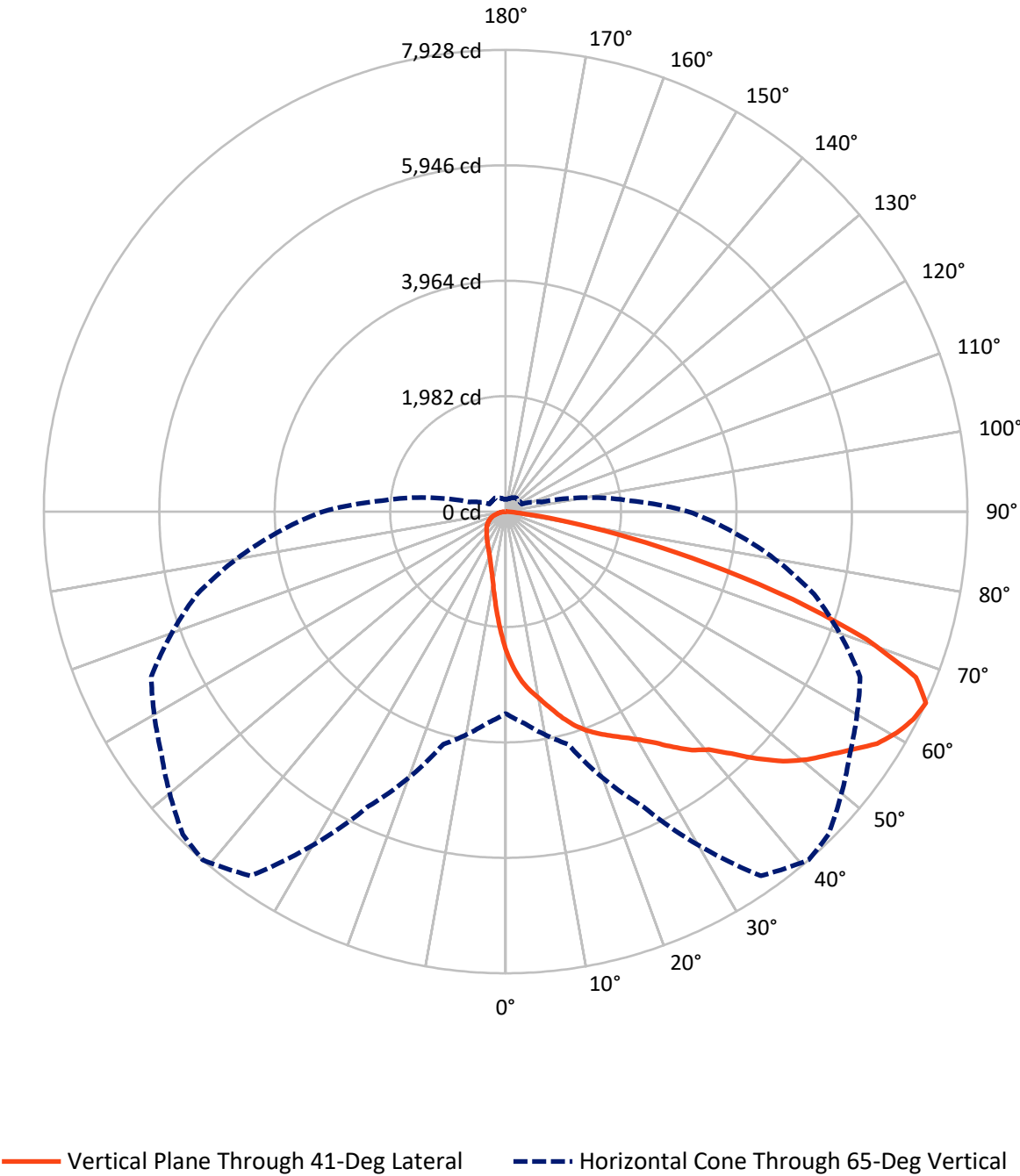
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type III - Short - N/A

REPORT NUMBER: P841025
CATALOG NUMBER: ARCH4-120-730-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P841025

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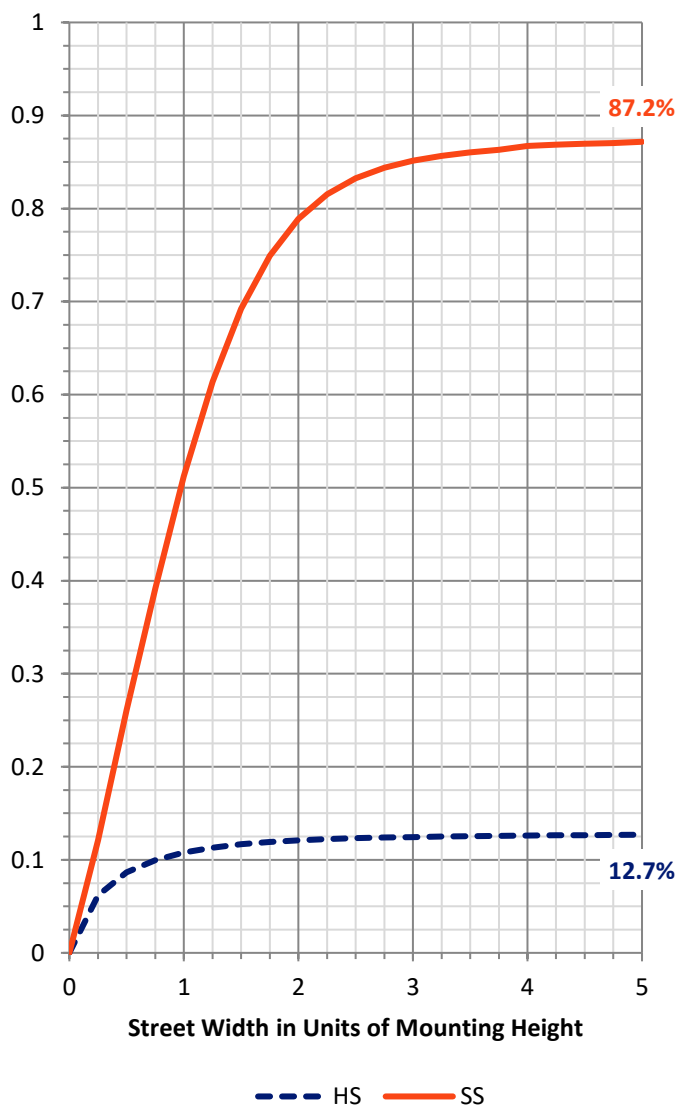
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1821.4	0.0	1821.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	12365.6	0.0	12365.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	14187.0	0.0	14187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.2	1.6
10°-20°	675.4	4.8
20°-30°	1161.9	8.2
30°-40°	1762.2	12.4
40°-50°	2581.7	18.2
50°-60°	3260.1	23.0
60°-70°	3057.0	21.5
70°-80°	1362.5	9.6
80°-90°	100.9	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°	14187.0	100.0
0°-180°	14187.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841025

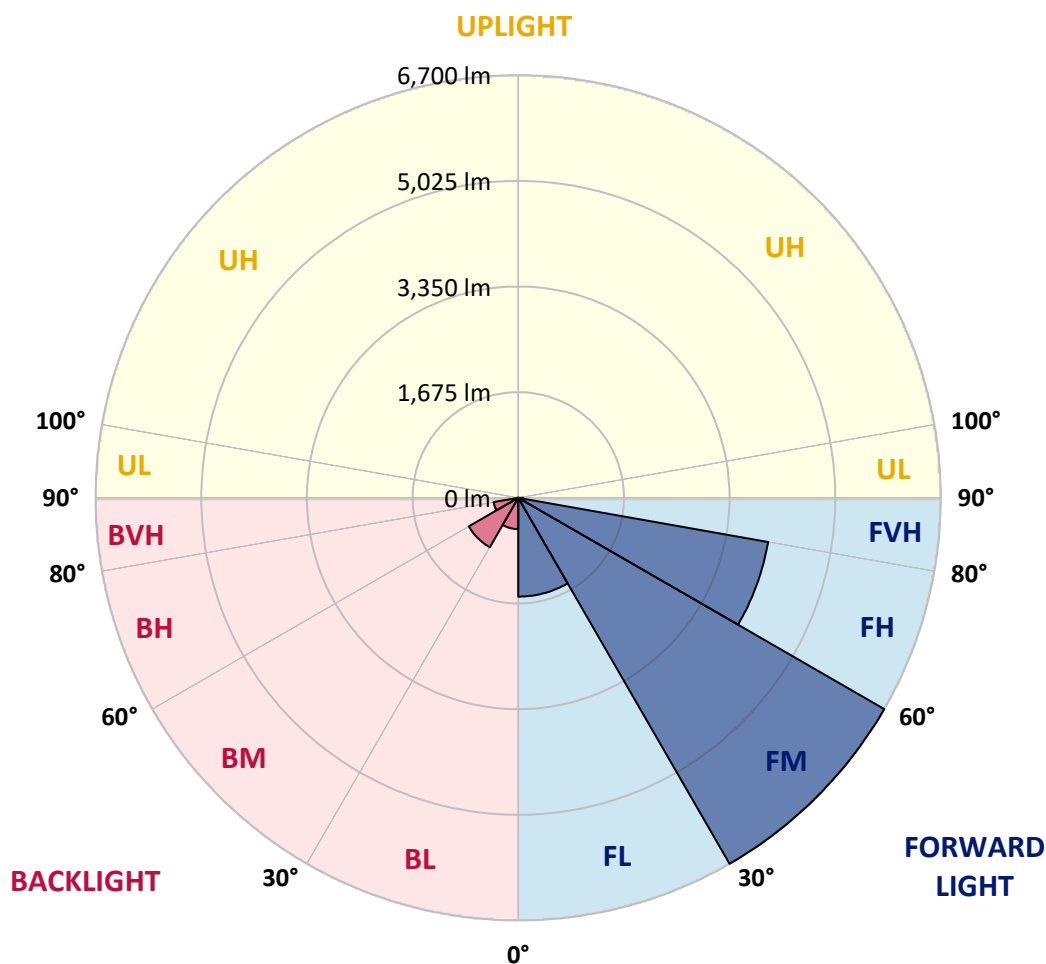
CATALOG NUMBER: ARCH4-120-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1566.8	11.0			
FM	(30°-60°)	6699.7	47.2			
FH	(60°-80°)	4023.8	28.4			G2/5000
FVH	(80°-90°)	75.4	0.5			G1/100
BL	(0°-30°)	495.8	3.5	B1/500		
BM	(30°-60°)	904.4	6.4	B1/1000		
BH	(60°-80°)	395.7	2.8	B1/500		G1/500
BVH	(80°-90°)	25.6	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: P841025

CATALOG NUMBER: ARCH4-120-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4
2.5°	2788.4	2779.4	2773.4	2740.5	2740.5	2695.6	2698.6	2656.7	2605.9	2525.1	2438.3
5°	3051.7	3039.7	3024.7	2991.8	2979.9	2935.0	2929.0	2869.2	2782.4	2641.8	2486.2
7.5°	3282.0	3270.1	3249.1	3201.2	3168.3	3114.5	3099.5	3021.7	2926.0	2752.5	2534.1
10°	3491.5	3482.5	3455.6	3395.7	3350.8	3285.0	3258.1	3153.4	3033.7	2842.2	2573.0
12.5°	3703.9	3691.9	3656.0	3605.1	3551.3	3473.5	3440.6	3306.0	3153.4	2941.0	2629.8
15°	3901.3	3883.4	3856.5	3802.6	3754.7	3679.9	3644.0	3485.5	3300.0	3051.7	2704.6
17.5°	4030.0	4015.0	3991.1	3961.2	3922.3	3865.4	3829.5	3674.0	3446.6	3159.4	2782.4
20°	4107.8	4101.8	4092.8	4074.9	4056.9	4018.0	3991.1	3844.5	3605.1	3264.1	2857.2
22.5°	4167.6	4161.6	4158.6	4158.6	4161.6	4146.7	4128.7	4003.1	3757.7	3374.8	2926.0
25°	4260.4	4257.4	4251.4	4245.4	4266.3	4269.3	4263.3	4176.6	3949.2	3521.4	3012.8
27.5°	4389.0	4380.0	4368.1	4362.1	4383.0	4398.0	4409.9	4350.1	4152.6	3671.0	3111.5
30°	4586.5	4559.5	4529.6	4508.7	4523.6	4547.6	4574.5	4538.6	4362.1	3856.5	3213.2
32.5°	4819.8	4786.9	4718.1	4679.2	4718.1	4736.1	4757.0	4739.0	4580.5	4056.9	3314.9
35°	5104.0	5065.2	4993.3	4936.5	5005.3	4966.4	4957.4	4939.5	4786.9	4254.4	3428.6
37.5°	5576.8	5519.9	5406.2	5280.6	5280.6	5196.8	5163.9	5110.0	4972.4	4430.9	3539.3
40°	6124.3	6049.5	5902.9	5717.4	5546.8	5373.3	5352.4	5313.5	5190.8	4634.3	3665.0
42.5°	6725.6	6582.0	6378.6	6154.2	5878.9	5681.5	5633.6	5522.9	5403.2	4840.8	3790.6
45°	7392.8	7093.6	6797.4	6683.7	6229.0	6049.5	5959.7	5759.3	5624.6	5056.2	3922.3
47.5°	7500.5	7267.1	7069.7	7051.7	6555.1	6405.5	6303.8	6016.6	5864.0	5286.5	4059.9
50°	7440.7	7300.0	7321.0	7249.2	6794.4	6695.7	6617.9	6291.8	6100.3	5507.9	4185.6
52.5°	7189.3	7267.1	7386.8	7255.2	7021.8	6941.0	6902.1	6588.0	6321.7	5711.4	4299.2
55°	6890.2	6944.0	7201.3	7362.9	7285.1	7213.3	7177.4	6932.0	6540.1	5881.9	4404.0
57.5°	6453.4	6429.4	6713.6	7344.9	7560.3	7518.4	7479.6	7270.1	6743.6	6004.6	4469.8
60°	5798.1	5747.3	6106.3	6985.9	7650.1	7715.9	7698.0	7494.5	6899.1	6001.6	4442.9
62.5°	4664.2	4789.9	5286.5	6399.5	7689.0	7856.5	7823.6	7512.5	6950.0	5828.1	4272.3
65°	3467.5	3647.0	4134.7	5591.7	7635.1	7928.3	7838.6	7219.3	6713.6	5484.0	3898.3
67.5°	2498.2	2656.7	3012.8	4601.4	7117.5	7599.2	7494.5	6740.6	6169.1	4996.3	3380.8
70°	1708.3	1822.0	2064.4	3350.8	6076.4	6570.0	6504.2	6025.5	5310.5	4415.9	2746.5
72.5°	1205.7	1253.6	1409.1	2211.0	4616.4	5154.9	5077.1	4957.4	4266.3	3671.0	2136.2
75°	903.5	933.4	1017.2	1430.1	3114.5	3572.2	3500.4	3569.2	3186.3	2779.4	1555.7
77.5°	341.1	371.0	577.4	912.5	1843.0	2193.0	2121.2	2163.1	1771.2	1403.2	774.9
80°	92.7	98.7	191.5	433.8	837.7	1092.0	993.3	852.7	658.2	646.2	409.9
82.5°	38.9	44.9	86.8	233.4	299.2	299.2	251.3	311.1	251.3	302.2	197.5
85°	15.0	18.0	20.9	59.8	38.9	41.9	44.9	59.8	50.9	62.8	44.9
87.5°	0.0	0.0	0.0	3.0	3.0	6.0	3.0	6.0	9.0	9.0	9.0
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: P841025

CATALOG NUMBER: ARCH4-120-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4	2417.4
2.5°	2402.4	2369.5	2321.7	2243.9	2163.1	2118.2	2061.4	2052.4	1992.6	1986.6	1962.6
5°	2417.4	2348.6	2225.9	2076.3	1929.7	1816.0	1732.3	1687.4	1600.6	1600.6	1576.7
7.5°	2429.4	2321.7	2124.2	1902.8	1702.3	1549.8	1436.1	1388.2	1310.4	1304.4	1286.5
10°	2432.3	2288.7	2013.5	1726.3	1481.0	1325.4	1214.7	1160.8	1092.0	1086.0	1074.1
12.5°	2456.3	2270.8	1914.8	1573.7	1322.4	1154.8	1047.1	1002.3	948.4	942.4	930.5
15°	2495.2	2270.8	1831.0	1445.0	1181.8	1026.2	933.4	891.6	852.7	846.7	840.7
17.5°	2534.1	2264.8	1747.2	1325.4	1065.1	924.5	843.7	810.8	780.9	777.9	771.9
20°	2570.0	2261.8	1663.5	1223.7	975.3	840.7	777.9	748.0	724.0	724.0	721.0
22.5°	2605.9	2255.8	1582.7	1127.9	897.5	777.9	724.0	691.1	673.2	673.2	670.2
25°	2659.7	2255.8	1507.9	1047.1	834.7	730.0	676.2	652.2	637.3	634.3	634.3
27.5°	2722.6	2273.8	1442.1	975.3	780.9	682.1	640.2	616.3	598.4	592.4	595.4
30°	2791.4	2288.7	1382.2	912.5	730.0	646.2	601.4	577.4	559.5	553.5	556.5
32.5°	2860.2	2306.7	1328.4	855.7	679.1	613.3	568.4	541.5	523.6	520.6	520.6
35°	2935.0	2324.6	1274.5	807.8	637.3	580.4	538.5	508.6	496.6	490.7	493.7
37.5°	3009.8	2354.6	1223.7	762.9	607.3	550.5	511.6	481.7	472.7	469.7	469.7
40°	3099.5	2399.4	1202.7	733.0	580.4	523.6	490.7	460.7	451.8	451.8	451.8
42.5°	3174.3	2435.3	1184.8	700.1	559.5	499.6	469.7	445.8	439.8	436.8	439.8
45°	3249.1	2468.3	1160.8	670.2	532.5	475.7	451.8	427.8	421.8	421.8	421.8
47.5°	3323.9	2486.2	1127.9	640.2	508.6	454.8	433.8	412.9	406.9	406.9	406.9
50°	3383.7	2501.2	1080.0	607.3	481.7	436.8	415.9	394.9	388.9	388.9	388.9
52.5°	3443.6	2504.2	1029.2	568.4	454.8	415.9	397.9	377.0	371.0	368.0	368.0
55°	3497.4	2501.2	969.3	523.6	424.8	391.9	377.0	359.0	347.1	335.1	341.1
57.5°	3536.3	2498.2	900.5	478.7	394.9	368.0	362.0	338.1	314.1	284.2	290.2
60°	3521.4	2465.3	825.7	421.8	362.0	344.1	344.1	311.1	269.3	254.3	257.3
62.5°	3425.6	2372.5	748.0	362.0	329.1	320.1	317.1	281.2	248.3	233.4	236.4
65°	3138.4	2139.2	634.3	308.2	296.2	293.2	293.2	260.3	230.4	212.4	215.4
67.5°	2701.6	1795.1	517.6	260.3	263.3	269.3	269.3	239.3	209.4	191.5	194.5
70°	2166.1	1403.2	412.9	224.4	227.4	236.4	242.3	215.4	188.5	170.5	170.5
72.5°	1630.5	1065.1	332.1	188.5	203.4	203.4	212.4	191.5	164.6	146.6	149.6
75°	1181.8	762.9	263.3	158.6	176.5	173.5	173.5	161.6	140.6	128.6	128.6
77.5°	559.5	400.9	209.4	113.7	137.6	134.6	137.6	128.6	119.7	107.7	110.7
80°	275.2	197.5	134.6	80.8	95.7	98.7	107.7	101.7	98.7	89.8	89.8
82.5°	131.6	77.8	62.8	56.8	65.8	68.8	74.8	74.8	77.8	71.8	71.8
85°	35.9	20.9	26.9	35.9	41.9	44.9	50.9	53.9	53.9	50.9	53.9
87.5°	9.0	9.0	12.0	18.0	20.9	23.9	26.9	26.9	12.0	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)