

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: P840951

Luminaire Tested: **ARCH4-110-730-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840951
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: ARCH4-110-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 920mA 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: 12933 lumens
Efficiency: N/A
Efficacy: 114.9 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): 112.6
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

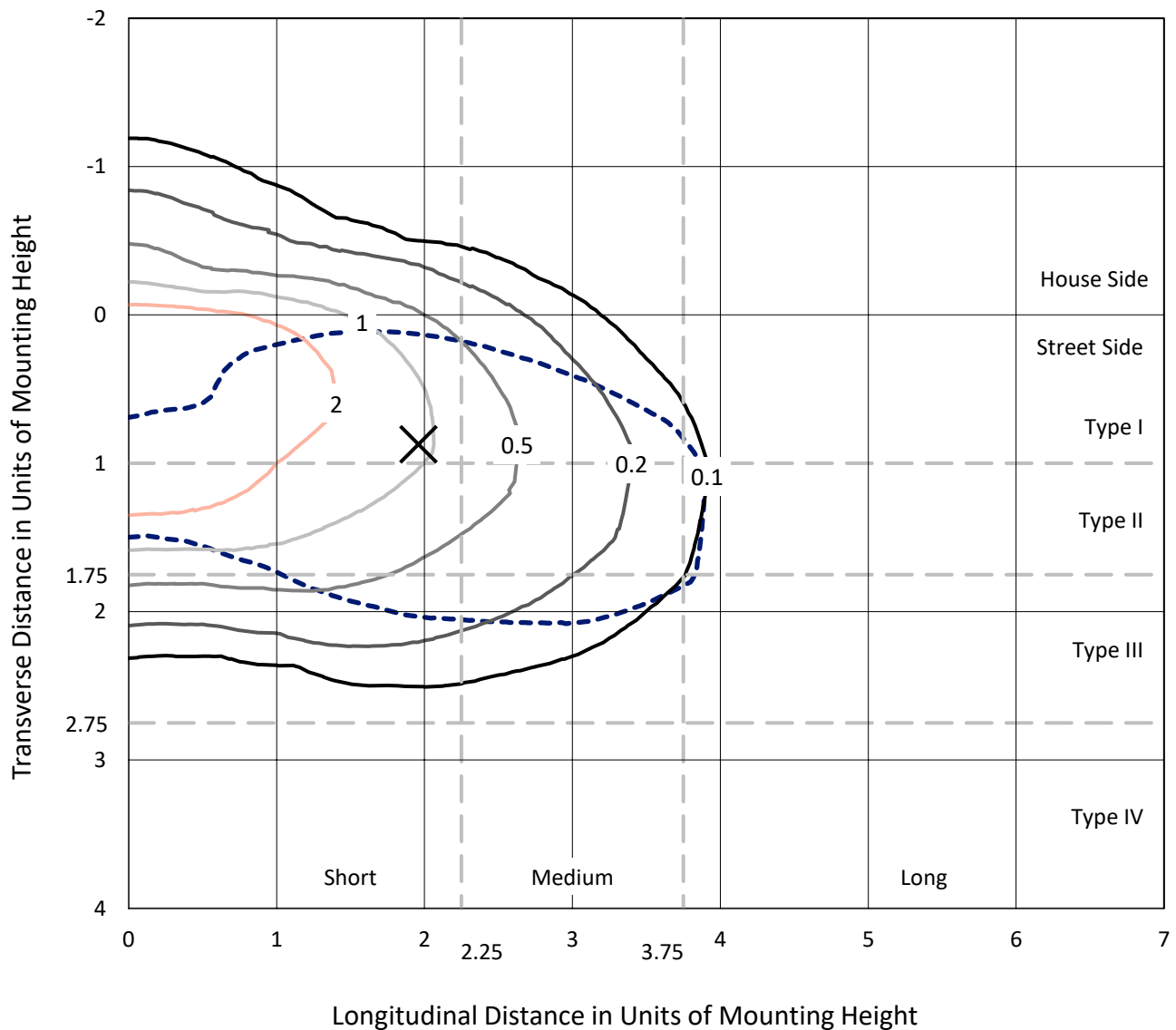


REPORT NUMBER: P840951

CATALOG NUMBER: ARCH4-110-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

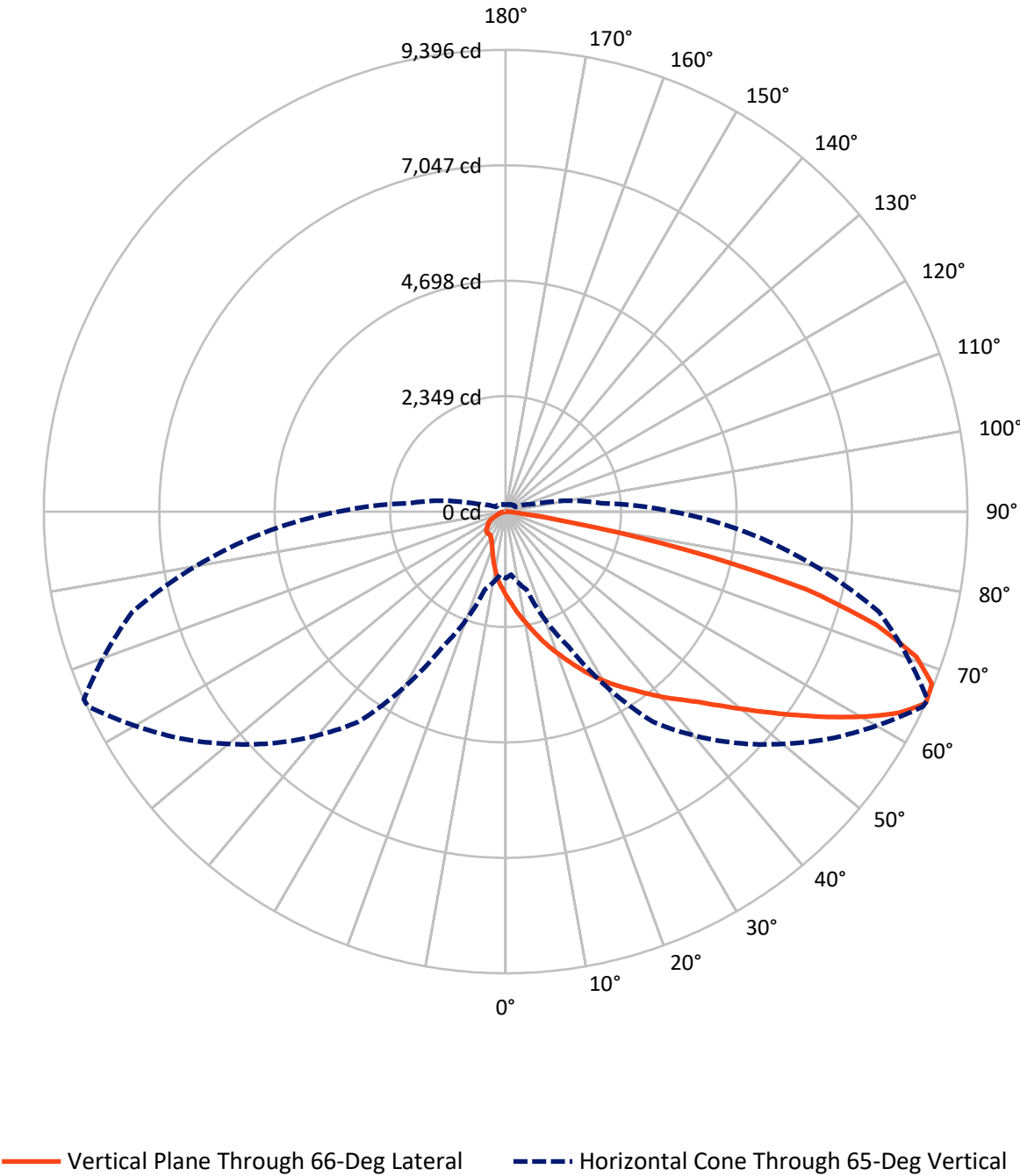
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type III - Short - N/A

REPORT NUMBER: P840951
CATALOG NUMBER: ARCH4-110-730-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P840951

CATALOG NUMBER: ARCH4-110-730-U-T3-HSS

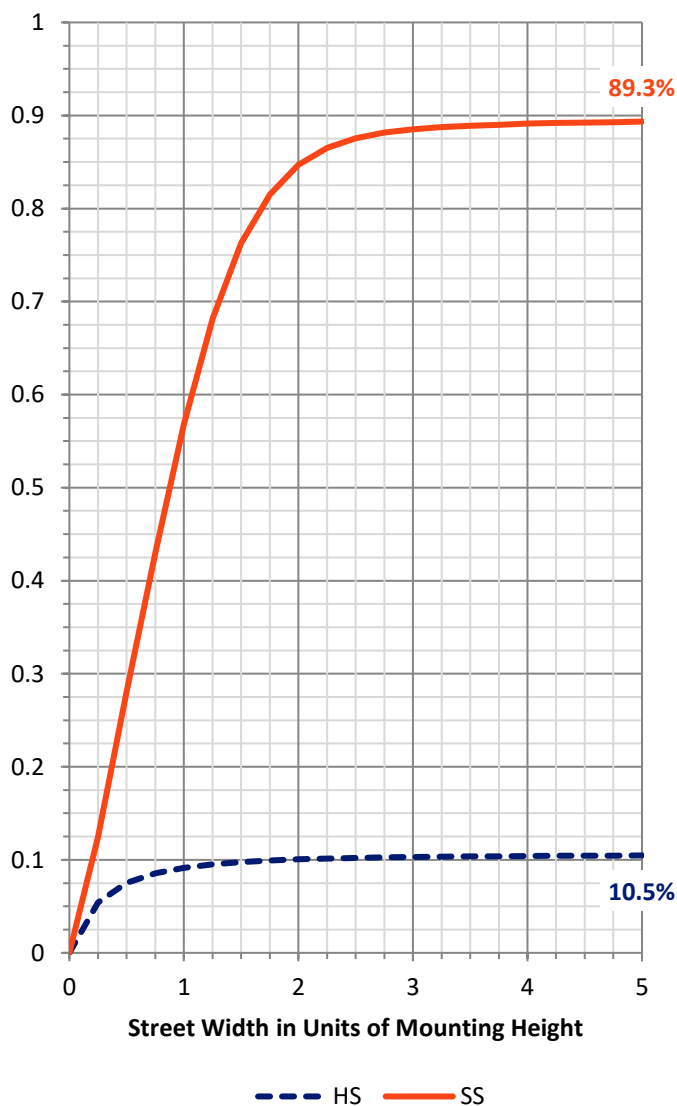
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1368.0	0.0	1368.0
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	11565.0	0.0	11565.0
	% Fixture	89.4	0.0	89.4
Total	Lumens	12933.0	0.0	12933.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	1.3
10°-20°	550.6	4.3
20°-30°	996.2	7.7
30°-40°	1557.8	12.0
40°-50°	2363.2	18.3
50°-60°	3002.6	23.2
60°-70°	2805.6	21.7
70°-80°	1394.4	10.8
80°-90°	93.7	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°	12933.0	100.0
0°-180°	12933.0	100.0

Coefficient of Utilization



REPORT NUMBER: P840951

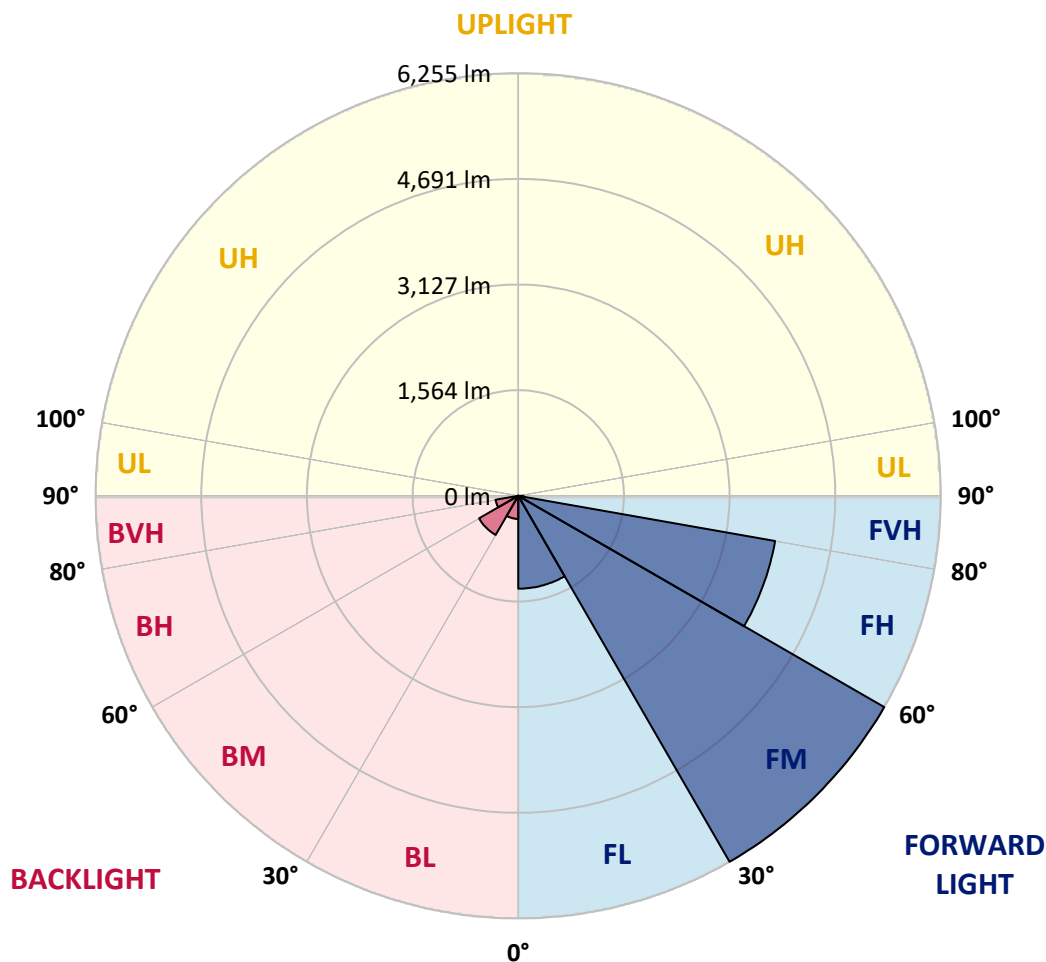
CATALOG NUMBER: ARCH4-110-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1374.1	10.6			
FM	(30°-60°)	6254.5	48.4			
FH	(60°-80°)	3859.3	29.8			G2/5000
FVH	(80°-90°)	77.1	0.6			G1/100
BL	(0°-30°)	341.6	2.6	B1/500		
BM	(30°-60°)	669.1	5.2	B1/1000		
BH	(60°-80°)	340.7	2.6	B1/500		G1/500
BVH	(80°-90°)	16.6	0.1			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: P840951

CATALOG NUMBER: ARCH4-110-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1711.6	1711.6	1711.6	1711.6	1711.6	1711.6	1711.6	1711.6	1711.6	1711.6	1711.6
2.5°	1999.1	2015.4	2023.6	2026.3	1963.9	1936.8	1909.6	1847.2	1833.7	1798.4	1752.3
5°	2351.8	2373.5	2368.0	2357.2	2281.2	2194.4	2123.9	2007.3	1988.3	1904.2	1801.1
7.5°	2699.0	2718.0	2712.5	2671.9	2587.8	2465.7	2349.1	2178.2	2151.0	2015.4	1850.0
10°	2989.2	3005.5	3002.8	2962.1	2861.7	2712.5	2571.5	2343.6	2311.1	2118.5	1890.6
12.5°	3227.9	3249.6	3246.9	3219.8	3130.3	2967.5	2807.5	2533.5	2492.8	2243.3	1947.6
15°	3415.1	3442.2	3442.2	3431.4	3369.0	3233.3	3051.6	2742.4	2693.6	2387.0	2018.1
17.5°	3529.0	3550.7	3569.7	3588.7	3545.3	3442.2	3276.7	2951.2	2899.7	2528.1	2091.4
20°	3588.7	3610.4	3624.0	3664.6	3672.8	3621.2	3491.0	3157.4	3103.1	2688.1	2175.5
22.5°	3686.3	3705.3	3708.0	3743.3	3759.6	3773.1	3691.8	3360.8	3317.4	2864.4	2270.4
25°	3849.1	3870.8	3862.7	3878.9	3881.6	3897.9	3889.8	3594.1	3550.7	3065.2	2384.3
27.5°	4058.0	4085.1	4079.7	4063.4	4039.0	4025.4	4060.7	3830.1	3789.4	3265.9	2501.0
30°	4283.1	4315.6	4307.5	4275.0	4209.9	4152.9	4201.7	4052.5	4014.6	3472.0	2631.2
32.5°	4511.0	4548.9	4546.2	4492.0	4380.7	4283.1	4356.3	4261.4	4234.3	3694.5	2772.2
35°	4660.1	4709.0	4703.5	4671.0	4527.2	4443.1	4532.7	4475.7	4456.7	3965.7	2975.7
37.5°	4901.6	4953.1	4907.0	4825.6	4660.1	4616.7	4725.2	4717.1	4703.5	4253.3	3189.9
40°	5487.5	5563.4	5441.4	5107.7	4836.5	4798.5	4953.1	4985.6	4972.1	4538.1	3382.5
42.5°	6100.5	6214.4	6024.5	5563.4	5156.5	5018.2	5202.6	5248.8	5232.5	4782.2	3556.1
45°	6472.1	6520.9	6331.1	5973.0	5723.5	5284.0	5468.5	5544.4	5530.9	5075.2	3778.6
47.5°	6775.9	6756.9	6539.9	6298.5	6344.6	5658.4	5769.6	5918.8	5907.9	5398.0	4022.7
50°	6841.0	6797.6	6710.8	6558.9	6681.0	6038.1	6086.9	6344.6	6333.8	5756.0	4269.5
52.5°	6382.6	6325.6	6561.6	6689.1	6648.4	6314.8	6436.9	6811.2	6805.8	6143.9	4505.5
55°	5237.9	5191.8	5826.5	6485.7	6613.2	6510.1	6824.7	7296.7	7326.6	6556.2	4719.8
57.5°	4120.3	4071.5	4695.4	5975.7	6483.0	6689.1	7277.7	7852.8	7890.8	7003.8	4923.3
60°	3284.9	3211.6	3689.1	5172.8	6238.8	6827.5	7714.5	8463.1	8468.5	7413.4	5048.0
62.5°	2232.4	2151.0	2680.0	4155.6	5829.2	6849.2	8050.8	8989.4	9011.1	7719.9	5069.7
65°	1356.3	1288.5	1646.5	3035.3	5224.3	6664.7	8056.2	9377.2	9396.2	7860.9	4939.5
67.5°	786.6	759.5	941.3	1890.6	4220.7	6168.3	7717.2	9317.6	9352.8	7801.3	4643.9
70°	458.4	455.7	523.5	935.8	2978.4	5183.7	6960.4	8815.7	8867.3	7489.3	4190.9
72.5°	336.4	341.8	368.9	501.8	1725.2	3732.5	5894.3	7806.7	7885.3	6879.0	3545.3
75°	265.8	268.5	293.0	341.8	906.0	2110.4	4416.0	6266.0	6328.4	5791.3	2769.5
77.5°	198.0	203.4	222.4	241.4	420.4	968.4	2484.7	3859.9	3756.9	3179.1	1337.3
80°	143.8	157.3	165.5	173.6	222.4	374.3	745.9	1345.4	1334.6	1388.8	632.0
82.5°	92.2	103.1	111.2	116.6	132.9	179.0	222.4	301.1	325.5	539.8	252.3
85°	40.7	46.1	51.5	62.4	57.0	62.4	92.2	59.7	51.5	81.4	46.1
87.5°	0.0	0.0	8.1	13.6	10.9	5.4	16.3	10.9	8.1	8.1	8.1
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: P840951

CATALOG NUMBER: ARCH4-110-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1711.6	1711.6	1711.6	1711.6	1711.6	1711.6	1711.6	1711.6	1711.6	1711.6	1711.6
2.5°	1727.9	1698.0	1635.7	1576.0	1540.7	1494.6	1453.9	1415.9	1413.2	1402.4	1383.4
5°	1749.6	1692.6	1576.0	1464.8	1380.7	1291.2	1215.2	1155.5	1133.8	1117.6	1095.9
7.5°	1771.3	1681.8	1508.2	1345.4	1212.5	1087.7	998.2	916.8	892.4	870.7	857.2
10°	1779.4	1662.8	1429.5	1212.5	1038.9	906.0	811.0	751.4	729.7	718.8	710.7
12.5°	1803.8	1651.9	1356.3	1087.7	887.0	764.9	697.1	661.9	653.7	645.6	637.4
15°	1836.4	1651.9	1283.0	965.7	767.6	670.0	629.3	604.9	599.5	596.8	591.3
17.5°	1871.7	1651.9	1212.5	862.6	680.8	607.6	577.8	564.2	561.5	558.8	556.1
20°	1920.5	1654.6	1136.6	773.1	618.5	561.5	537.1	520.8	518.1	515.4	515.4
22.5°	1969.3	1660.1	1063.3	705.3	577.8	526.2	496.4	480.1	474.7	474.7	474.7
25°	2031.7	1676.3	995.5	648.3	542.5	493.7	455.7	442.1	439.4	439.4	436.7
27.5°	2104.9	1695.3	935.8	604.9	507.2	455.7	417.7	404.2	398.7	398.7	396.0
30°	2183.6	1714.3	887.0	572.3	472.0	417.7	382.5	366.2	360.8	363.5	360.8
32.5°	2270.4	1741.4	849.0	550.6	439.4	385.2	352.6	333.6	330.9	330.9	328.2
35°	2416.9	1817.4	843.6	539.8	412.3	360.8	328.2	309.2	306.5	306.5	303.8
37.5°	2574.2	1904.2	868.0	534.4	390.6	339.1	309.2	290.2	287.5	287.5	287.5
40°	2707.1	1969.3	895.1	534.4	377.0	320.1	293.0	276.7	276.7	276.7	276.7
42.5°	2796.6	1974.7	889.7	534.4	366.2	306.5	282.1	265.8	265.8	268.5	265.8
45°	2929.5	2001.9	868.0	526.2	358.1	295.7	271.3	257.7	255.0	257.7	257.7
47.5°	3086.9	2050.7	846.3	493.7	355.3	284.8	263.1	246.8	244.1	246.8	244.1
50°	3236.1	2094.1	835.5	450.3	349.9	274.0	252.3	236.0	233.3	236.0	233.3
52.5°	3360.8	2113.1	816.5	420.4	336.4	263.1	241.4	225.1	219.7	222.4	222.4
55°	3461.2	2107.6	789.3	396.0	311.9	252.3	227.9	214.3	206.2	206.2	203.4
57.5°	3553.4	2110.4	764.9	371.6	284.8	236.0	217.0	200.7	189.9	187.2	184.5
60°	3588.7	2096.8	721.5	339.1	257.7	222.4	203.4	184.5	173.6	170.9	168.2
62.5°	3539.9	2048.0	664.6	282.1	233.3	206.2	189.9	170.9	160.0	157.3	154.6
65°	3401.5	1955.7	577.8	222.4	211.6	187.2	173.6	160.0	146.5	141.1	138.3
67.5°	3165.5	1822.8	469.3	179.0	187.2	170.9	162.8	146.5	130.2	124.8	122.1
70°	2829.2	1646.5	352.6	151.9	165.5	151.9	146.5	130.2	116.6	111.2	108.5
72.5°	2357.2	1361.7	246.8	130.2	143.8	132.9	127.5	116.6	103.1	94.9	94.9
75°	1782.1	976.5	162.8	111.2	119.4	113.9	105.8	97.7	89.5	84.1	81.4
77.5°	767.6	379.8	100.4	84.1	97.7	94.9	84.1	78.7	76.0	70.5	70.5
80°	330.9	154.6	62.4	62.4	70.5	67.8	65.1	59.7	59.7	57.0	54.3
82.5°	122.1	62.4	38.0	46.1	51.5	46.1	46.1	46.1	46.1	43.4	43.4
85°	29.8	19.0	19.0	27.1	29.8	27.1	29.8	27.1	27.1	27.1	24.4
87.5°	8.1	8.1	10.9	10.9	10.9	10.9	10.9	8.1	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)