

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: P836254

Luminaire Tested: **ARCH3-160-730-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-160-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15327 lumens
Efficiency: N/A
Efficacy: 95.2 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): 161
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



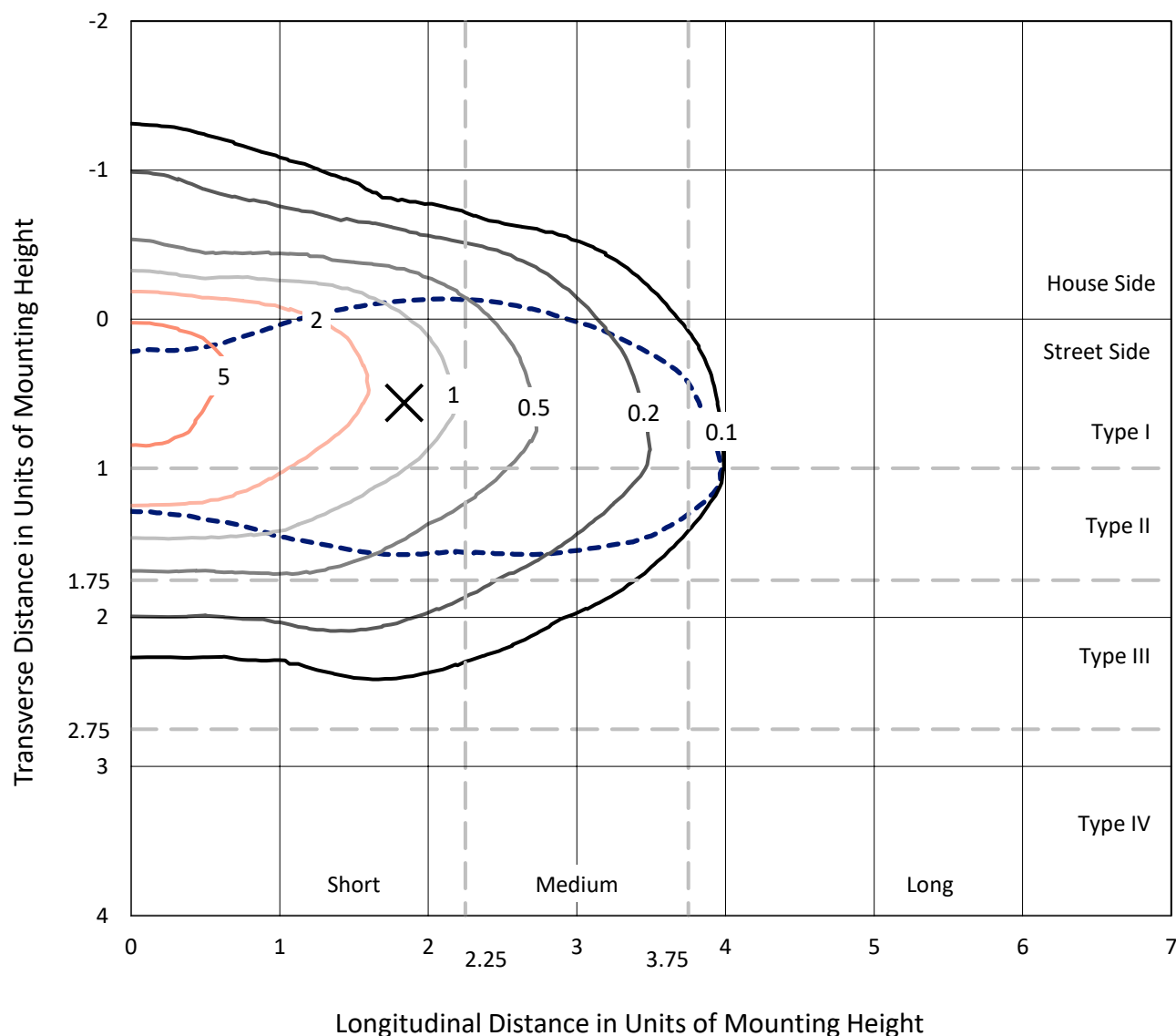
REPORT NUMBER: P836254

CATALOG NUMBER: ARCH3-160-730-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

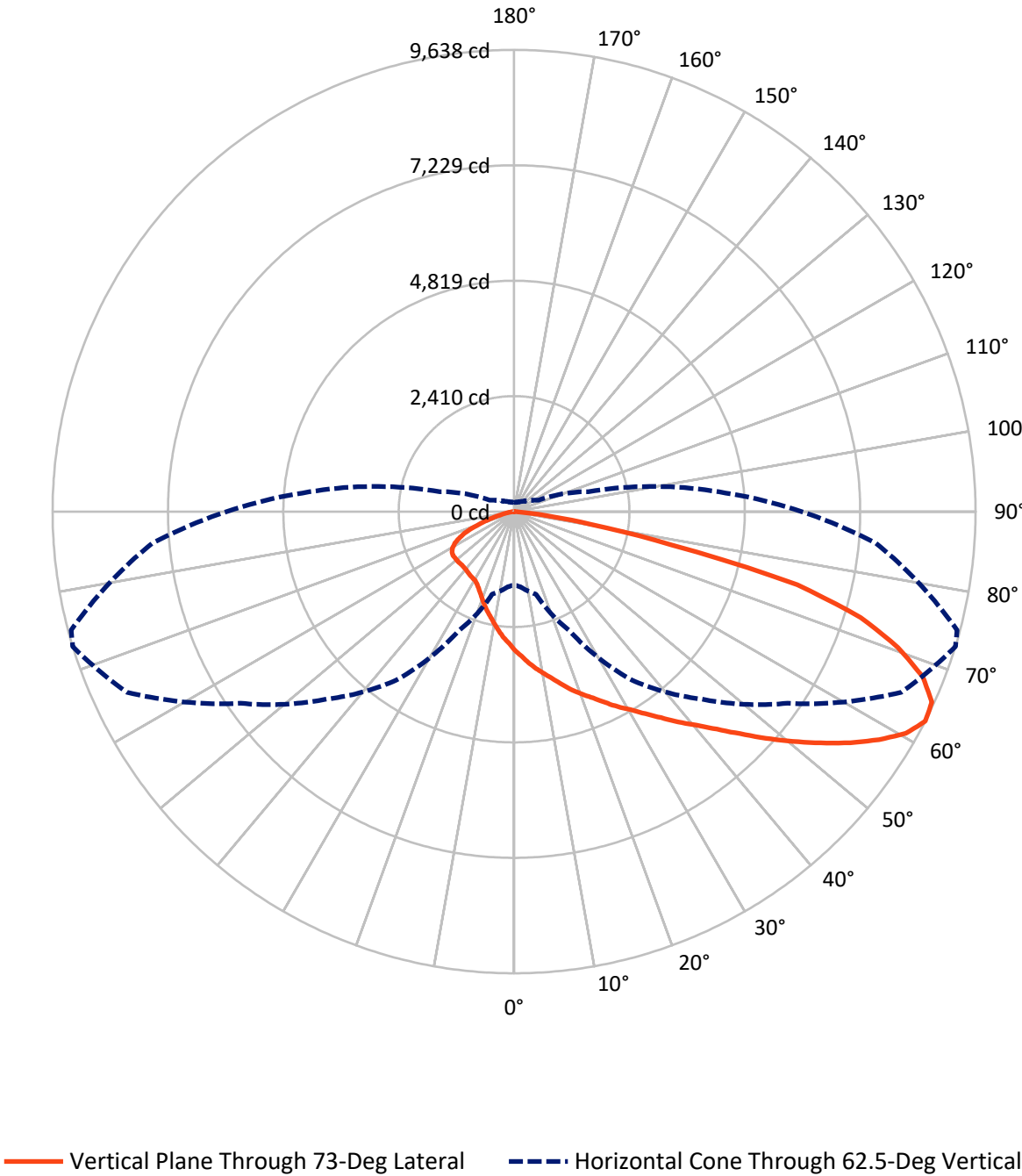


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc

Type II - Short - N/A

REPORT NUMBER: P836254
CATALOG NUMBER: ARCH3-160-730-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P836254

CATALOG NUMBER: ARCH3-160-730-U-T2U-HSS

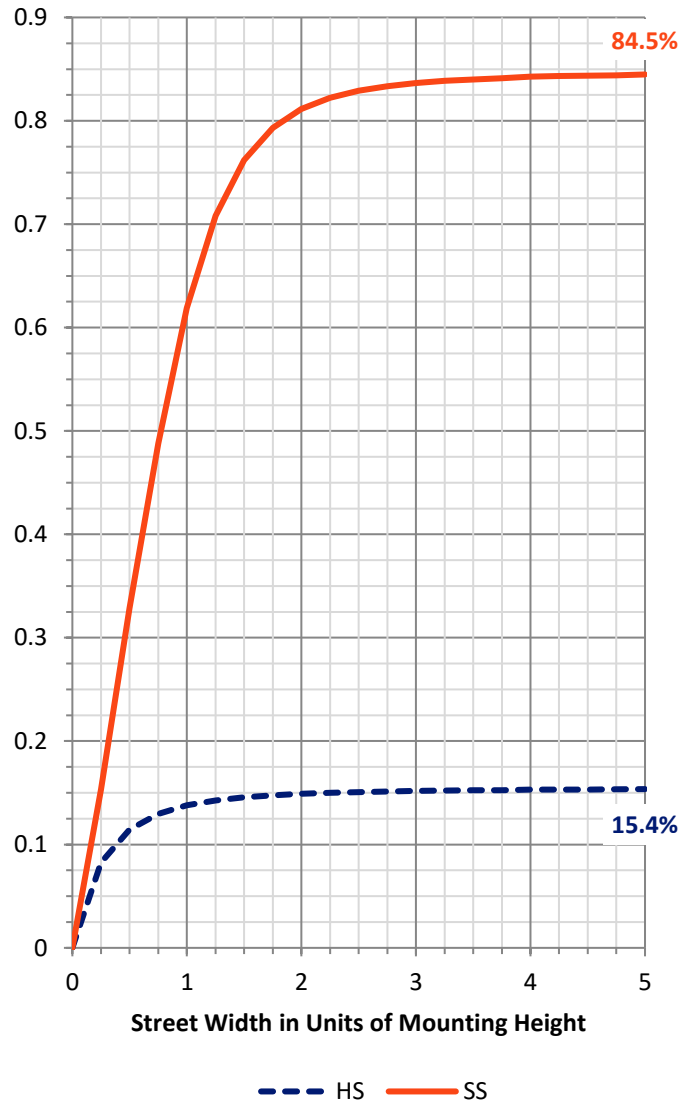
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2375.9	0.0	2375.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	12951.1	0.0	12951.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	15327.0	0.0	15327.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.4	1.8
10°-20°	846.0	5.5
20°-30°	1408.2	9.2
30°-40°	2124.8	13.9
40°-50°	2969.9	19.4
50°-60°	3280.5	21.4
60°-70°	2857.7	18.6
70°-80°	1443.6	9.4
80°-90°	115.9	0.8
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°	15327.0	100.0
0°-180°	15327.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836254

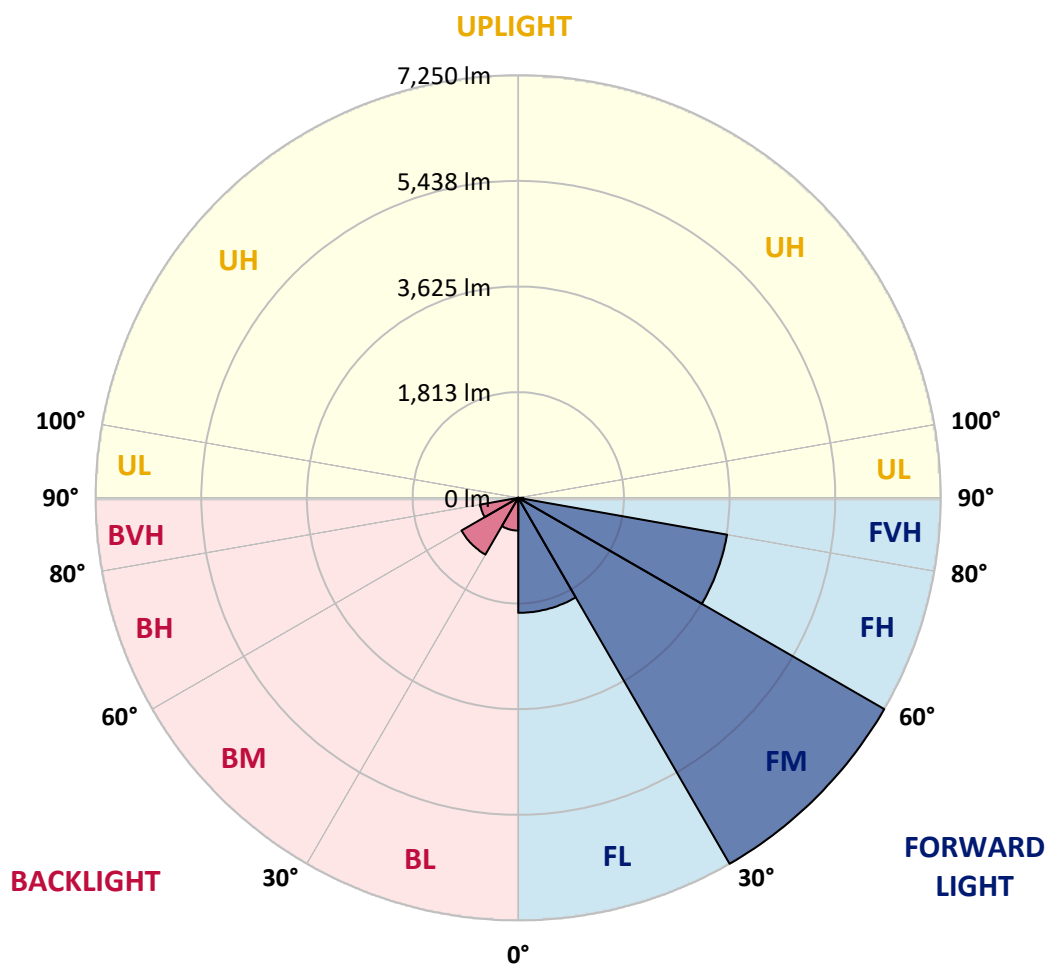
CATALOG NUMBER: ARCH3-160-730-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1973.1	12.9			
FM	(30°-60°)	7250.2	47.3			
FH	(60°-80°)	3638.1	23.7			G2/5000
FVH	(80°-90°)	89.7	0.6			G1/100
BL	(0°-30°)	561.6	3.7	B2/1000		
BM	(30°-60°)	1125.0	7.3	B2/2500		
BH	(60°-80°)	663.1	4.3	B2/1000		G2/1000
BVH	(80°-90°)	26.2	0.2			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: P836254

CATALOG NUMBER: ARCH3-160-730-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2902.2	2902.2	2902.2	2902.2	2902.2	2902.2	2902.2	2902.2	2902.2	2902.2	2902.2
2.5°	3303.0	3339.7	3319.7	3333.0	3266.2	3222.8	3172.7	3075.9	3022.4	3015.7	2952.3
5°	3787.2	3827.3	3793.9	3783.9	3667.0	3566.8	3453.3	3282.9	3169.4	3149.3	3009.1
7.5°	4271.5	4308.2	4268.1	4238.1	4081.1	3904.1	3737.1	3486.6	3309.6	3276.2	3055.8
10°	4612.1	4645.5	4615.5	4585.4	4421.8	4241.4	4004.3	3677.0	3436.6	3383.1	3085.9
12.5°	4869.3	4889.3	4876.0	4849.2	4695.6	4501.9	4274.8	3890.8	3580.2	3513.4	3132.6
15°	5079.7	5113.1	5096.4	5076.3	4929.4	4735.7	4518.6	4114.5	3747.1	3663.7	3202.8
17.5°	5220.0	5243.3	5246.7	5246.7	5116.4	4926.1	4715.7	4318.2	3914.1	3807.3	3269.6
20°	5283.4	5310.1	5326.8	5353.5	5246.7	5083.0	4869.3	4491.9	4071.1	3950.9	3333.0
22.5°	5313.5	5336.8	5380.3	5440.4	5353.5	5216.6	5019.6	4652.2	4228.1	4101.2	3406.5
25°	5336.8	5366.9	5430.4	5543.9	5483.8	5366.9	5196.6	4835.9	4415.1	4284.8	3513.4
27.5°	5400.3	5437.0	5497.1	5634.1	5560.6	5503.8	5383.6	5032.9	4612.1	4478.5	3643.6
30°	5620.7	5650.8	5647.4	5734.3	5644.1	5627.4	5543.9	5223.3	4802.5	4668.9	3797.2
32.5°	6021.5	6051.5	5978.1	5944.7	5747.6	5751.0	5717.6	5427.0	5029.6	4892.7	3974.2
35°	6452.3	6485.7	6388.8	6332.1	6001.4	5904.6	5921.3	5680.8	5283.4	5146.5	4194.7
37.5°	6836.4	6876.4	6793.0	6709.5	6375.5	6151.7	6148.4	5964.7	5574.0	5433.7	4438.5
40°	7046.8	7093.5	7143.6	7096.9	6746.2	6499.1	6392.2	6255.3	5861.2	5717.6	4702.3
42.5°	7147.0	7277.2	7367.4	7337.3	7050.1	6799.6	6672.7	6559.2	6211.8	6071.6	5016.2
45°	6866.4	6869.8	7060.1	7223.8	7170.3	7003.4	6980.0	6899.8	6612.6	6479.0	5370.2
47.5°	6515.8	6489.0	6622.6	6913.2	7063.5	7106.9	7243.8	7277.2	7070.1	6936.6	5730.9
50°	5674.2	5690.9	6125.0	6542.5	6836.4	7116.9	7430.8	7664.6	7541.0	7414.1	6111.7
52.5°	4615.5	4655.5	5153.2	6071.6	6535.8	7016.7	7541.0	8052.0	8022.0	7901.7	6492.4
55°	3700.4	3763.8	4291.5	5286.7	6151.7	6793.0	7587.8	8406.0	8519.6	8409.4	6866.4
57.5°	2828.7	2895.5	3339.7	4361.6	5660.8	6428.9	7554.4	8716.6	8983.8	8913.7	7210.4
60°	2130.7	2197.5	2481.4	3536.7	5046.3	6021.5	7387.4	8920.3	9401.3	9327.8	7460.9
62.5°	1526.2	1579.7	1790.1	2751.9	4298.2	5537.2	6976.6	8923.7	9638.4	9578.3	7581.1
65°	1098.8	1098.8	1269.1	1963.7	3596.9	4956.1	6355.5	8512.9	9588.3	9571.6	7497.6
67.5°	791.5	798.2	935.1	1372.6	2868.8	4251.4	5550.6	7781.5	9200.9	9284.4	7197.1
70°	561.1	577.8	641.2	958.5	2167.5	3356.4	4688.9	6823.0	8502.9	8649.8	6615.9
72.5°	434.2	444.2	487.6	667.9	1583.0	2494.8	3737.1	5754.3	7571.1	7738.1	5824.4
75°	334.0	344.0	377.4	490.9	1135.5	1750.0	2655.1	4465.2	6105.0	6402.2	4678.9
77.5°	243.8	257.2	280.5	357.3	661.3	1112.1	1609.7	2511.5	3369.8	3510.0	2451.3
80°	113.5	130.2	163.6	230.4	357.3	524.3	571.1	968.5	1619.8	1693.2	1329.2
82.5°	63.5	80.2	93.5	140.3	180.3	187.0	193.7	243.8	611.2	674.6	557.7
85°	30.1	40.1	43.4	60.1	60.1	53.4	63.5	46.8	100.2	120.2	116.9
87.5°	0.0	3.3	6.7	16.7	13.4	10.0	10.0	10.0	10.0	13.4	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: P836254

CATALOG NUMBER: ARCH3-160-730-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2902.2	2902.2	2902.2	2902.2	2902.2	2902.2	2902.2	2902.2	2902.2	2902.2	2902.2
2.5°	2922.2	2878.8	2778.6	2691.8	2635.0	2584.9	2518.1	2488.1	2434.6	2444.7	2414.6
5°	2938.9	2858.8	2681.8	2518.1	2397.9	2291.0	2174.1	2107.4	2033.9	2027.2	2003.8
7.5°	2949.0	2825.4	2571.6	2341.1	2157.4	1993.8	1836.8	1750.0	1659.8	1639.8	1619.8
10°	2938.9	2775.3	2458.0	2157.4	1913.6	1709.9	1532.9	1422.7	1329.2	1305.8	1285.8
12.5°	2949.0	2748.6	2351.1	1987.1	1696.6	1466.1	1265.7	1152.2	1065.4	1042.0	1028.6
15°	2972.3	2731.9	2261.0	1833.5	1502.9	1245.7	1048.7	951.8	881.7	858.3	851.6
17.5°	2992.4	2715.2	2164.1	1683.2	1309.2	1052.0	881.7	801.5	741.4	718.0	711.4
20°	3019.1	2691.8	2067.3	1539.6	1138.8	898.4	748.1	678.0	631.2	614.5	611.2
22.5°	3042.5	2675.1	1977.1	1396.0	981.9	774.8	647.9	591.1	557.7	541.0	541.0
25°	3102.6	2681.8	1900.3	1262.4	865.0	678.0	571.1	527.7	501.0	490.9	490.9
27.5°	3172.7	2708.5	1840.2	1148.9	764.8	604.5	517.7	480.9	467.6	454.2	457.5
30°	3272.9	2761.9	1800.1	1055.3	691.3	547.7	474.2	447.5	434.2	430.8	430.8
32.5°	3399.8	2848.8	1796.8	995.2	637.9	504.3	444.2	420.8	414.1	410.8	410.8
35°	3550.1	2925.6	1776.7	968.5	604.5	474.2	420.8	404.1	400.8	400.8	400.8
37.5°	3730.4	3052.5	1763.4	931.8	587.8	457.5	404.1	390.7	390.7	390.7	390.7
40°	3917.5	3156.0	1743.3	898.4	581.1	447.5	394.1	377.4	377.4	377.4	377.4
42.5°	4141.2	3306.3	1736.6	881.7	571.1	440.8	380.7	360.7	364.0	364.0	367.4
45°	4411.7	3476.6	1733.3	865.0	567.7	434.2	367.4	344.0	347.3	344.0	344.0
47.5°	4685.6	3673.7	1743.3	855.0	564.4	427.5	357.3	327.3	327.3	324.0	324.0
50°	4972.8	3854.0	1750.0	844.9	557.7	414.1	340.6	313.9	307.3	300.6	303.9
52.5°	5243.3	4021.0	1753.3	828.2	537.7	394.1	327.3	297.2	287.2	277.2	280.5
55°	5513.8	4181.3	1760.0	808.2	511.0	374.0	310.6	280.5	267.2	253.8	253.8
57.5°	5757.6	4321.6	1743.3	758.1	480.9	354.0	293.9	260.5	240.5	227.1	227.1
60°	5924.6	4421.8	1693.2	684.6	440.8	330.6	277.2	240.5	217.1	207.1	207.1
62.5°	6004.8	4438.5	1603.1	564.4	390.7	307.3	257.2	220.4	200.4	193.7	193.7
65°	5928.0	4365.0	1462.8	424.1	337.3	280.5	237.1	203.7	183.7	167.0	167.0
67.5°	5660.8	4157.9	1269.1	320.6	287.2	253.8	217.1	187.0	163.6	150.3	150.3
70°	5123.1	3727.1	981.9	257.2	243.8	220.4	197.0	167.0	146.9	130.2	130.2
72.5°	4418.4	3159.4	691.3	207.1	207.1	187.0	167.0	146.9	126.9	113.5	113.5
75°	3389.8	2337.8	464.2	167.0	170.3	157.0	136.9	120.2	106.9	96.9	96.9
77.5°	1850.2	1155.5	283.9	123.6	126.9	120.2	106.9	96.9	90.2	80.2	80.2
80°	898.4	507.6	163.6	86.8	90.2	86.8	80.2	70.1	70.1	63.5	63.5
82.5°	377.4	190.4	86.8	60.1	60.1	53.4	50.1	50.1	50.1	46.8	46.8
85°	93.5	36.7	36.7	33.4	33.4	33.4	30.1	30.1	30.1	23.4	26.7
87.5°	13.4	13.4	13.4	13.4	13.4	13.4	10.0	3.3	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)