

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: P836328

Luminaire Tested: **ARCH3-170-730-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-170-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15917 lumens
Efficiency: N/A
Efficacy: 93.3 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): 170.6
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

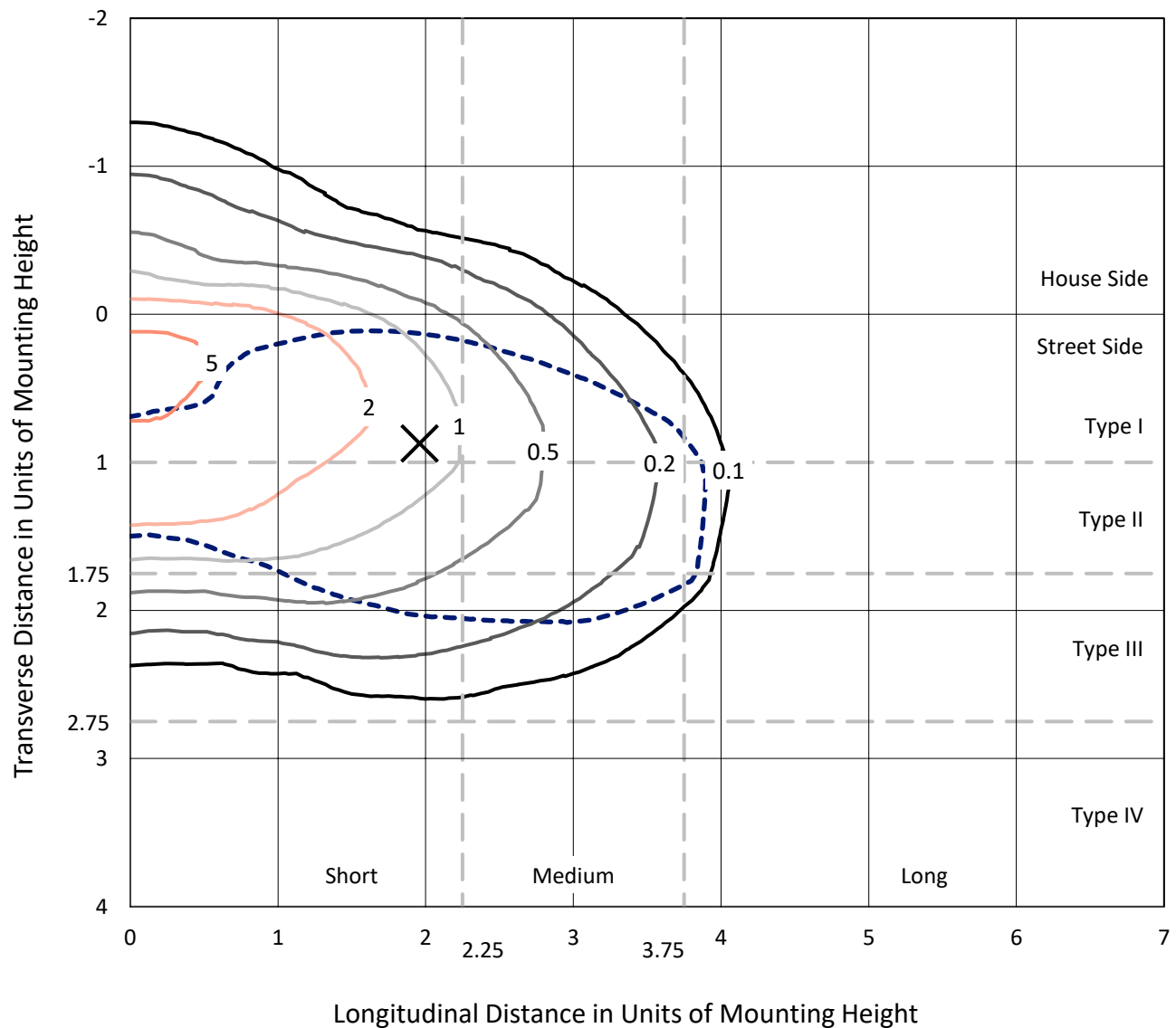


REPORT NUMBER: P836328

CATALOG NUMBER: ARCH3-170-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

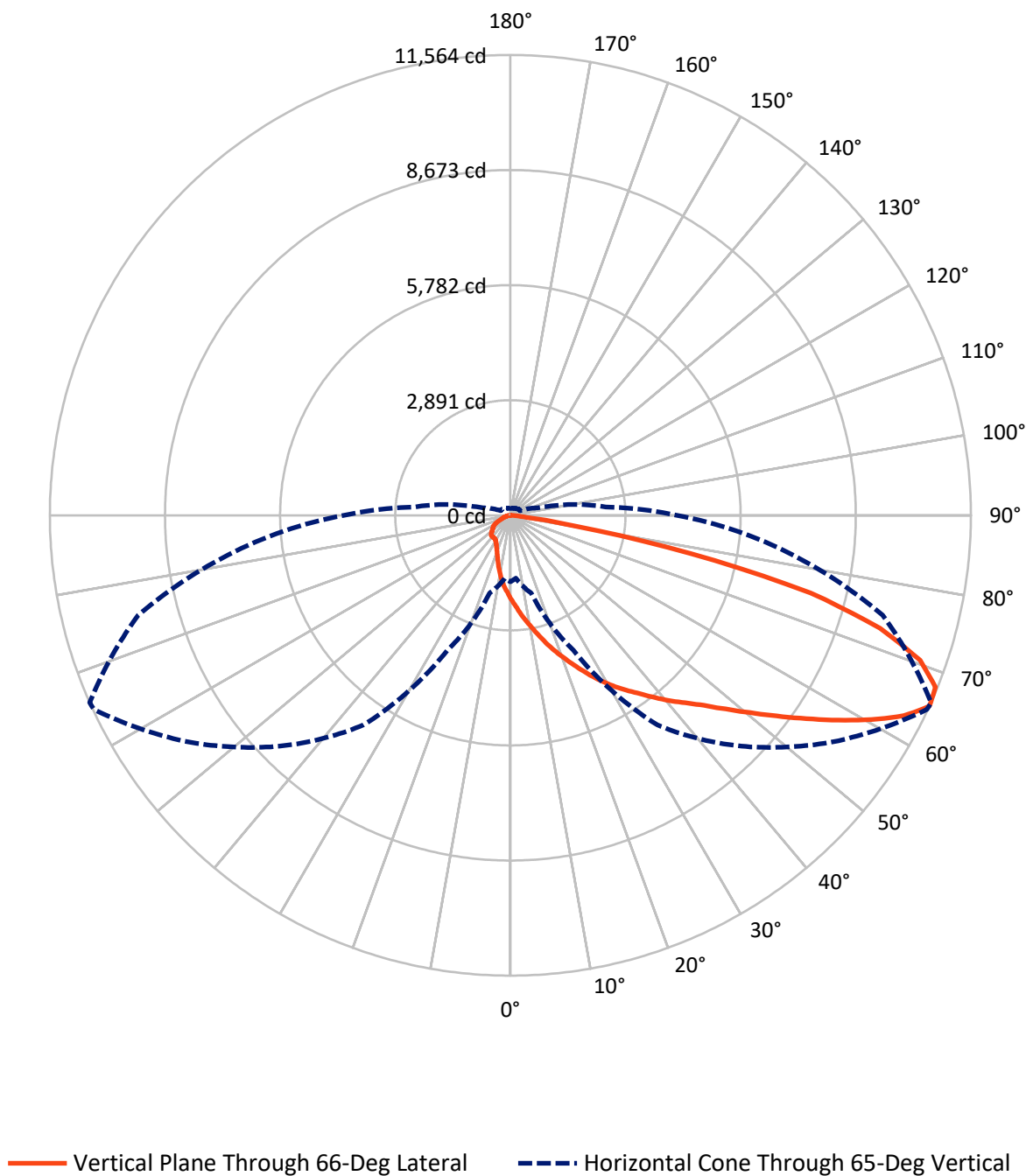
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type III - Short - N/A

REPORT NUMBER: P836328
CATALOG NUMBER: ARCH3-170-730-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P836328

CATALOG NUMBER: ARCH3-170-730-U-T3-HSS

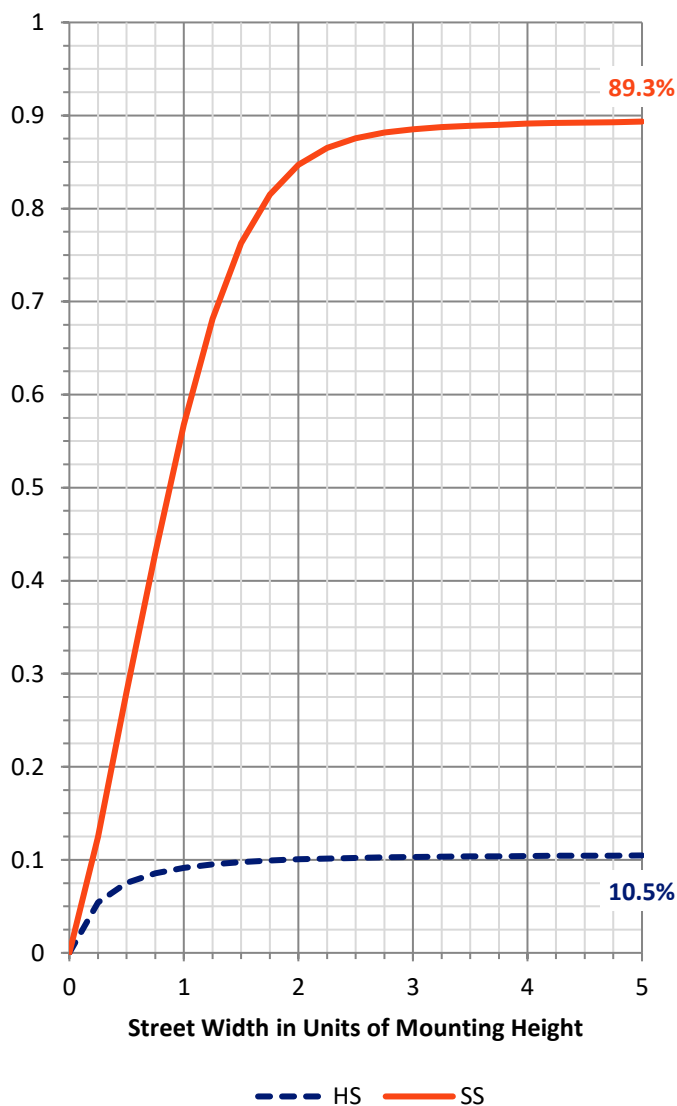
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1683.6	0.0	1683.6
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	14233.4	0.0	14233.4
	% Fixture	89.4	0.0	89.4
Total	Lumens	15917.0	0.0	15917.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.9	1.3
10°-20°	677.7	4.3
20°-30°	1226.1	7.7
30°-40°	1917.3	12.0
40°-50°	2908.5	18.3
50°-60°	3695.3	23.2
60°-70°	3452.9	21.7
70°-80°	1716.1	10.8
80°-90°	115.3	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°	15917.0	100.0
0°-180°	15917.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836328

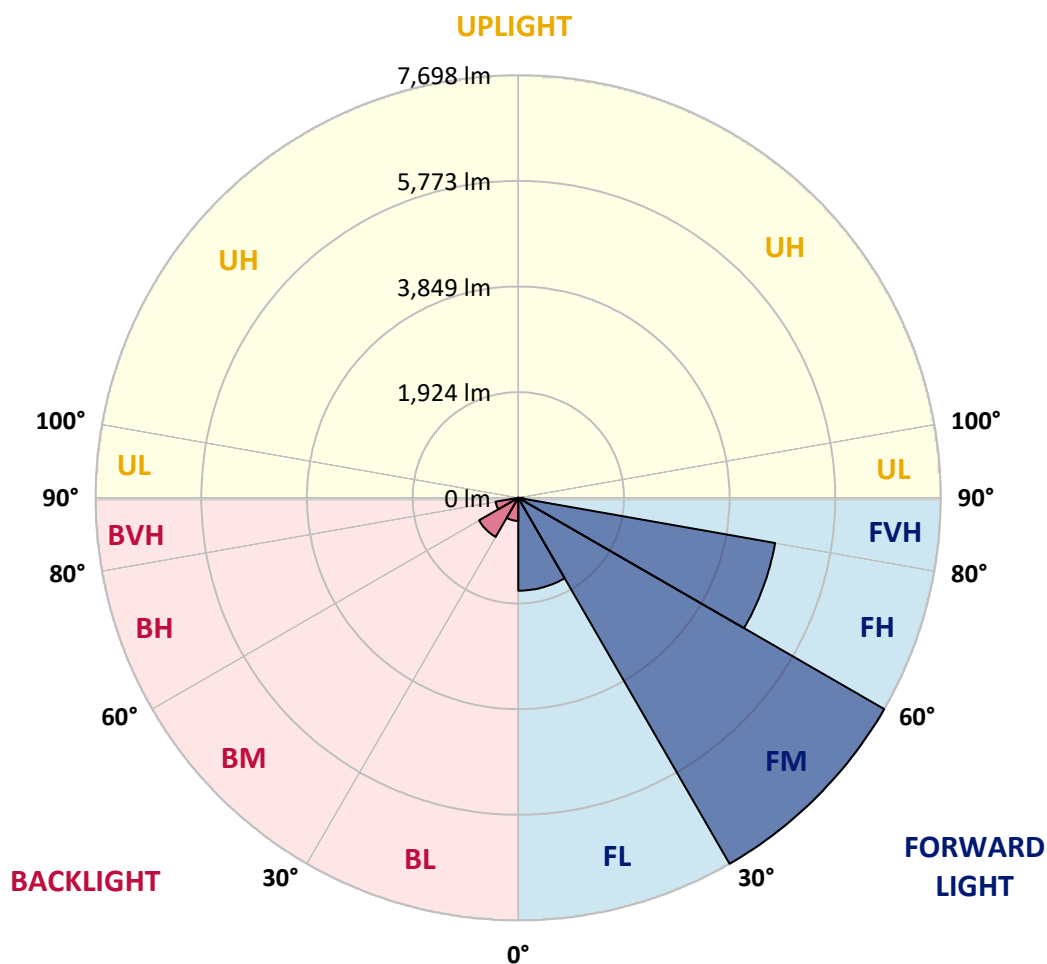
CATALOG NUMBER: ARCH3-170-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1691.2	10.6			
FM	(30°-60°)	7697.6	48.4			
FH	(60°-80°)	4749.7	29.8			G2/5000
FVH	(80°-90°)	94.9	0.6			G1/100
BL	(0°-30°)	420.5	2.6	B1/500		
BM	(30°-60°)	823.4	5.2	B1/1000		
BH	(60°-80°)	419.3	2.6	B1/500		G1/500
BVH	(80°-90°)	20.4	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: P836328

CATALOG NUMBER: ARCH3-170-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5
2.5°	2460.4	2480.4	2490.4	2493.8	2417.0	2383.6	2350.2	2273.4	2256.8	2213.4	2156.6
5°	2894.4	2921.1	2914.4	2901.1	2807.6	2700.8	2614.0	2470.4	2447.0	2343.6	2216.7
7.5°	3321.7	3345.1	3338.4	3288.3	3184.8	3034.6	2891.1	2680.7	2647.3	2480.4	2276.8
10°	3678.9	3698.9	3695.6	3645.5	3522.0	3338.4	3164.8	2884.4	2844.3	2607.3	2326.9
12.5°	3972.7	3999.4	3996.1	3962.7	3852.5	3652.2	3455.2	3118.1	3068.0	2760.9	2397.0
15°	4203.0	4236.4	4236.4	4223.1	4146.3	3979.4	3755.7	3375.1	3315.0	2937.8	2483.8
17.5°	4343.3	4370.0	4393.3	4416.7	4363.3	4236.4	4032.8	3632.2	3568.7	3111.4	2573.9
20°	4416.7	4443.4	4460.1	4510.2	4520.2	4456.8	4296.5	3885.9	3819.1	3308.4	2677.4
22.5°	4536.9	4560.2	4563.6	4607.0	4627.0	4643.7	4543.6	4136.3	4082.9	3525.3	2794.2
25°	4737.2	4763.9	4753.9	4773.9	4777.2	4797.3	4787.3	4423.4	4370.0	3772.4	2934.4
27.5°	4994.2	5027.6	5020.9	5000.9	4970.9	4954.2	4997.6	4713.8	4663.7	4019.4	3078.0
30°	5271.3	5311.4	5301.4	5261.3	5181.2	5111.1	5171.2	4987.6	4940.8	4273.1	3238.2
32.5°	5551.8	5598.5	5595.2	5528.4	5391.5	5271.3	5361.5	5244.6	5211.2	4546.9	3411.8
35°	5735.4	5795.5	5788.8	5748.7	5571.8	5468.3	5578.5	5508.4	5485.0	4880.7	3662.2
37.5°	6032.5	6095.9	6039.2	5939.0	5735.4	5681.9	5815.5	5805.5	5788.8	5234.6	3926.0
40°	6753.6	6847.0	6696.8	6286.2	5952.4	5905.6	6095.9	6136.0	6119.3	5585.1	4163.0
42.5°	7508.1	7648.3	7414.6	6847.0	6346.3	6176.0	6403.0	6459.8	6439.8	5885.6	4376.6
45°	7965.4	8025.5	7791.8	7351.1	7044.0	6503.2	6730.2	6823.7	6807.0	6246.1	4650.4
47.5°	8339.3	8315.9	8048.9	7751.8	7808.5	6963.9	7100.8	7284.4	7271.0	6643.4	4950.8
50°	8419.4	8366.0	8259.2	8072.2	8222.5	7431.3	7491.4	7808.5	7795.2	7084.1	5254.6
52.5°	7855.2	7785.1	8075.6	8232.5	8182.4	7771.8	7922.0	8382.7	8376.0	7561.5	5545.1
55°	6446.4	6389.7	7170.9	7982.1	8139.0	8012.1	8399.4	8980.3	9017.0	8068.9	5808.8
57.5°	5071.0	5010.9	5778.8	7354.5	7978.8	8232.5	8956.9	9664.7	9711.4	8619.7	6059.2
60°	4042.8	3952.7	4540.2	6366.3	7678.3	8402.7	9494.4	10415.8	10422.5	9123.8	6212.8
62.5°	2747.5	2647.3	3298.3	5114.4	7174.2	8429.4	9908.4	11063.4	11090.2	9501.1	6239.5
65°	1669.2	1585.7	2026.4	3735.7	6429.7	8202.4	9915.0	11540.8	11564.2	9674.7	6079.2
67.5°	968.1	934.8	1158.4	2326.9	5194.5	7591.5	9497.7	11467.4	11510.8	9601.2	5715.3
70°	564.2	560.9	644.3	1151.7	3665.6	6379.7	8566.3	10849.8	10913.2	9217.3	5157.8
72.5°	414.0	420.6	454.0	617.6	2123.2	4593.6	7254.3	9607.9	9704.7	8466.2	4363.3
75°	327.2	330.5	360.5	420.6	1115.0	2597.3	5434.9	7711.7	7788.5	7127.5	3408.5
77.5°	243.7	250.4	273.7	297.1	517.5	1191.8	3058.0	4750.5	4623.7	3912.6	1645.8
80°	176.9	193.6	203.6	213.7	273.7	460.7	918.1	1655.8	1642.5	1709.3	777.8
82.5°	113.5	126.9	136.9	143.6	163.6	220.3	273.7	370.6	400.6	664.3	310.5
85°	50.1	56.8	63.4	76.8	70.1	76.8	113.5	73.4	63.4	100.2	56.8
87.5°	0.0	0.0	10.0	16.7	13.4	6.7	20.0	13.4	10.0	10.0	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: P836328

CATALOG NUMBER: ARCH3-170-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5
2.5°	2126.6	2089.8	2013.1	1939.6	1896.2	1839.5	1789.4	1742.6	1739.3	1726.0	1702.6
5°	2153.3	2083.2	1939.6	1802.7	1699.2	1589.1	1495.6	1422.2	1395.4	1375.4	1348.7
7.5°	2180.0	2069.8	1856.1	1655.8	1492.3	1338.7	1228.5	1128.4	1098.3	1071.6	1054.9
10°	2190.0	2046.4	1759.3	1492.3	1278.6	1115.0	998.2	924.7	898.0	884.7	874.7
12.5°	2220.0	2033.1	1669.2	1338.7	1091.7	941.4	858.0	814.6	804.6	794.5	784.5
15°	2260.1	2033.1	1579.1	1188.5	944.8	824.6	774.5	744.5	737.8	734.4	727.8
17.5°	2303.5	2033.1	1492.3	1061.6	837.9	747.8	711.1	694.4	691.0	687.7	684.4
20°	2363.6	2036.4	1398.8	951.4	761.2	691.0	661.0	641.0	637.6	634.3	634.3
22.5°	2423.7	2043.1	1308.7	868.0	711.1	647.6	610.9	590.9	584.2	584.2	584.2
25°	2500.5	2063.1	1225.2	797.9	667.7	607.6	560.9	544.2	540.8	540.8	537.5
27.5°	2590.6	2086.5	1151.7	744.5	624.3	560.9	514.1	497.4	490.7	490.7	487.4
30°	2687.4	2109.9	1091.7	704.4	580.9	514.1	470.7	450.7	444.0	447.3	444.0
32.5°	2794.2	2143.2	1044.9	677.7	540.8	474.1	434.0	410.6	407.3	407.3	403.9
35°	2974.5	2236.7	1038.2	664.3	507.4	444.0	403.9	380.6	377.2	377.2	373.9
37.5°	3168.1	2343.6	1068.3	657.7	480.7	417.3	380.6	357.2	353.9	353.9	353.9
40°	3331.7	2423.7	1101.7	657.7	464.0	393.9	360.5	340.5	340.5	340.5	340.5
42.5°	3441.9	2430.4	1095.0	657.7	450.7	377.2	347.2	327.2	327.2	330.5	327.2
45°	3605.5	2463.7	1068.3	647.6	440.7	363.9	333.8	317.1	313.8	317.1	317.1
47.5°	3799.1	2523.8	1041.6	607.6	437.3	350.5	323.8	303.8	300.5	303.8	300.5
50°	3982.7	2577.2	1028.2	554.2	430.7	337.2	310.5	290.4	287.1	290.4	287.1
52.5°	4136.3	2600.6	1004.9	517.5	414.0	323.8	297.1	277.1	270.4	273.7	273.7
55°	4259.8	2593.9	971.5	487.4	383.9	310.5	280.4	263.7	253.7	253.7	250.4
57.5°	4373.3	2597.3	941.4	457.4	350.5	290.4	267.1	247.0	233.7	230.3	227.0
60°	4416.7	2580.6	888.0	417.3	317.1	273.7	250.4	227.0	213.7	210.3	207.0
62.5°	4356.6	2520.5	817.9	347.2	287.1	253.7	233.7	210.3	197.0	193.6	190.3
65°	4186.3	2407.0	711.1	273.7	260.4	230.3	213.7	197.0	180.3	173.6	170.3
67.5°	3895.9	2243.4	577.5	220.3	230.3	210.3	200.3	180.3	160.2	153.6	150.2
70°	3481.9	2026.4	434.0	187.0	203.6	187.0	180.3	160.2	143.6	136.9	133.5
72.5°	2901.1	1675.9	303.8	160.2	176.9	163.6	156.9	143.6	126.9	116.8	116.8
75°	2193.3	1201.8	200.3	136.9	146.9	140.2	130.2	120.2	110.2	103.5	100.2
77.5°	944.8	467.4	123.5	103.5	120.2	116.8	103.5	96.8	93.5	86.8	86.8
80°	407.3	190.3	76.8	76.8	86.8	83.5	80.1	73.4	73.4	70.1	66.8
82.5°	150.2	76.8	46.7	56.8	63.4	56.8	56.8	56.8	56.8	53.4	53.4
85°	36.7	23.4	23.4	33.4	36.7	33.4	36.7	33.4	33.4	33.4	30.0
87.5°	10.0	10.0	13.4	13.4	13.4	13.4	13.4	10.0	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)