

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: P836830

Luminaire Tested: **ARCH3-80-730-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836830
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: ARCH3-80-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 650mA 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: 9014 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

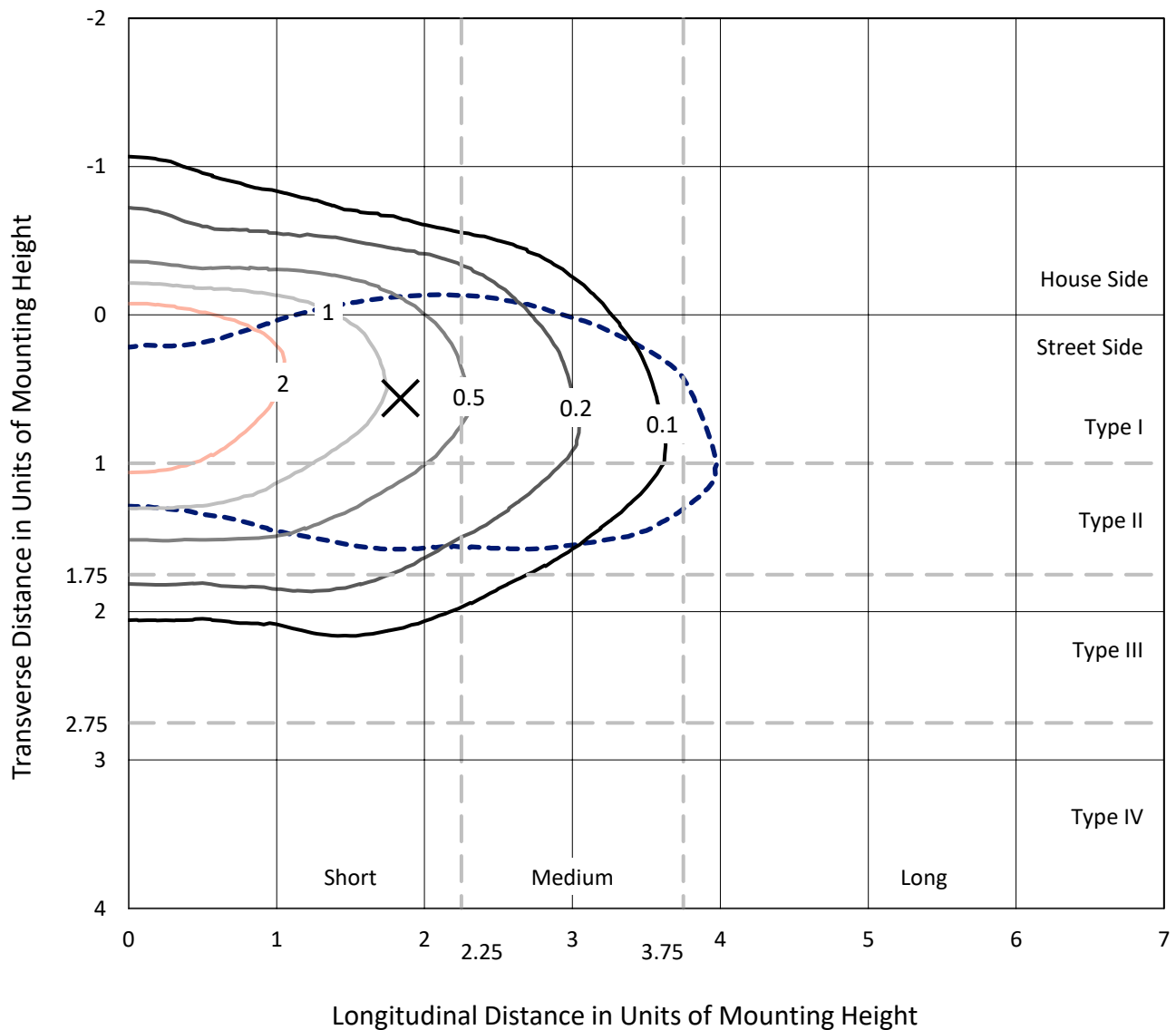
Input Watts (W): 81.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P836830
CATALOG NUMBER: ARCH3-80-730-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

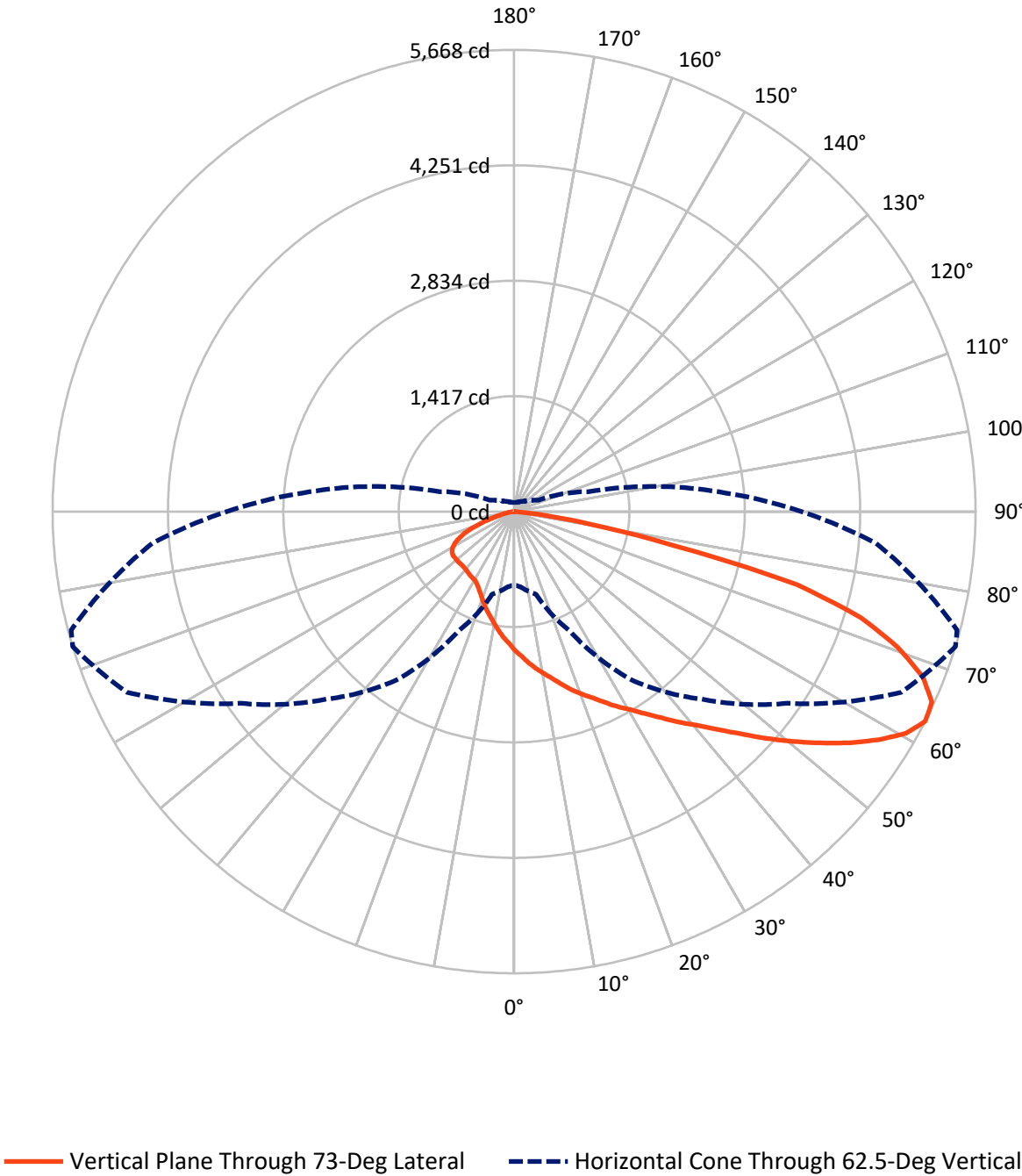
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type II - Short - N/A

REPORT NUMBER: P836830
CATALOG NUMBER: ARCH3-80-730-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P836830

CATALOG NUMBER: ARCH3-80-730-U-T2U-HSS

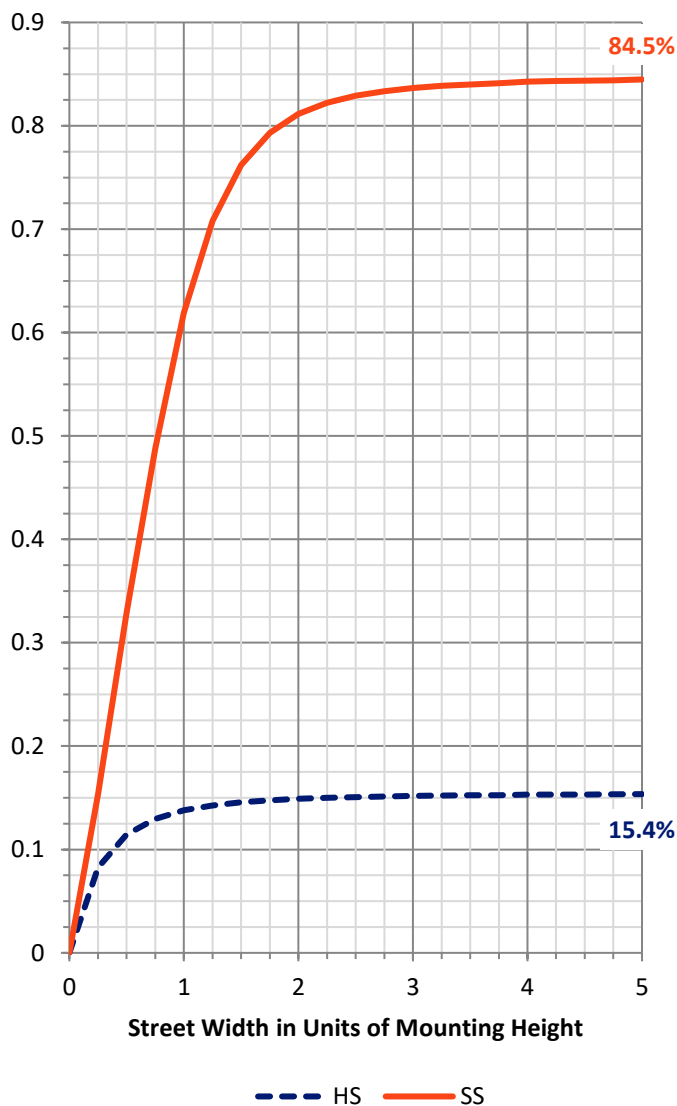
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1397.3	0.0	1397.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	7616.7	0.0	7616.7
	% Fixture	84.5	0.0	84.5
Total	Lumens	9014.0	0.0	9014.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	1.8
10°-20°	497.6	5.5
20°-30°	828.2	9.2
30°-40°	1249.6	13.9
40°-50°	1746.7	19.4
50°-60°	1929.3	21.4
60°-70°	1680.7	18.6
70°-80°	849.0	9.4
80°-90°	68.1	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°	9014.0	100.0
0°-180°	9014.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836830

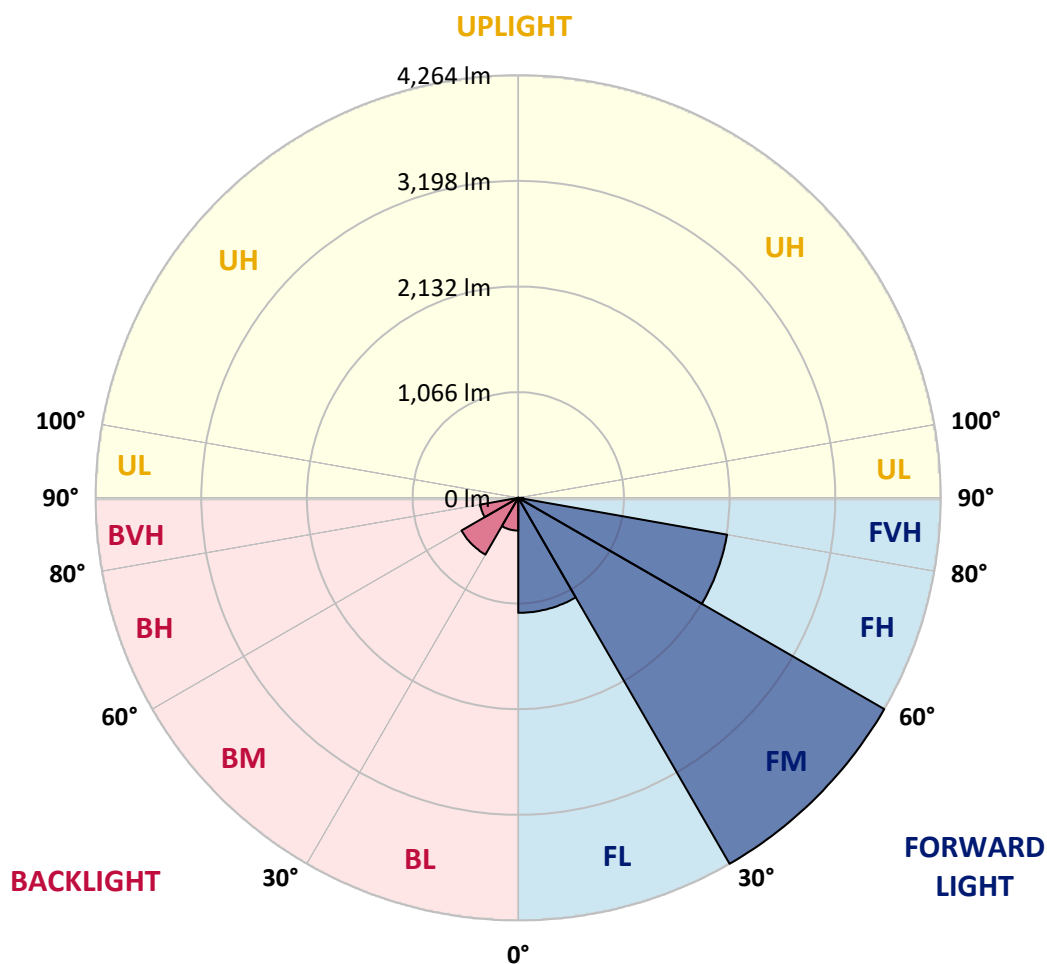
CATALOG NUMBER: ARCH3-80-730-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1160.4	12.9			
FM	(30°-60°)	4264.0	47.3			
FH	(60°-80°)	2139.6	23.7			G2/5000
FVH	(80°-90°)	52.7	0.6			G1/100
BL	(0°-30°)	330.3	3.7	B1/500		
BM	(30°-60°)	661.6	7.3	B1/1000		
BH	(60°-80°)	390.0	4.3	B1/500		G1/500
BVH	(80°-90°)	15.4	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 II Short



REPORT NUMBER: P836830

CATALOG NUMBER: ARCH3-80-730-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1706.8	1706.8	1706.8	1706.8	1706.8	1706.8	1706.8	1706.8	1706.8	1706.8	1706.8
2.5°	1942.5	1964.1	1952.3	1960.2	1920.9	1895.4	1865.9	1809.0	1777.5	1773.6	1736.3
5°	2227.3	2250.9	2231.2	2225.3	2156.6	2097.7	2030.9	1930.7	1863.9	1852.2	1769.7
7.5°	2512.1	2533.7	2510.1	2492.5	2400.2	2296.1	2197.8	2050.5	1946.4	1926.8	1797.2
10°	2712.4	2732.1	2714.4	2696.7	2600.5	2494.4	2355.0	2162.5	2021.1	1989.7	1814.8
12.5°	2863.7	2875.5	2867.6	2851.9	2761.6	2647.6	2514.1	2288.2	2105.5	2066.3	1842.3
15°	2987.4	3007.1	2997.2	2985.5	2899.0	2785.1	2657.5	2419.8	2203.7	2154.6	1883.6
17.5°	3069.9	3083.7	3085.6	3085.6	3009.0	2897.1	2773.3	2539.6	2301.9	2239.1	1922.9
20°	3107.2	3123.0	3132.8	3148.5	3085.6	2989.4	2863.7	2641.7	2394.3	2323.6	1960.2
22.5°	3124.9	3138.7	3164.2	3199.6	3148.5	3068.0	2952.1	2736.0	2486.6	2411.9	2003.4
25°	3138.7	3156.3	3193.7	3260.4	3225.1	3156.3	3056.2	2844.0	2596.6	2520.0	2066.3
27.5°	3176.0	3197.6	3232.9	3313.5	3270.3	3236.9	3166.2	2959.9	2712.4	2633.9	2142.9
30°	3305.6	3323.3	3321.3	3372.4	3319.4	3309.5	3260.4	3071.9	2824.4	2745.8	2233.2
32.5°	3541.3	3559.0	3515.8	3496.1	3380.2	3382.2	3362.6	3191.7	2958.0	2877.4	2337.3
35°	3794.7	3814.3	3757.4	3724.0	3529.5	3472.6	3482.4	3341.0	3107.2	3026.7	2466.9
37.5°	4020.6	4044.1	3995.0	3945.9	3749.5	3617.9	3615.9	3507.9	3278.1	3195.6	2610.3
40°	4144.3	4171.8	4201.3	4173.8	3967.5	3822.2	3759.3	3678.8	3447.0	3362.6	2765.5
42.5°	4203.2	4279.8	4332.8	4315.2	4146.3	3998.9	3924.3	3857.5	3653.3	3570.8	2950.1
45°	4038.2	4040.2	4152.1	4248.4	4217.0	4118.8	4105.0	4057.9	3889.0	3810.4	3158.3
47.5°	3832.0	3816.3	3894.8	4065.7	4154.1	4179.6	4260.2	4279.8	4158.0	4079.5	3370.4
50°	3337.0	3346.9	3602.2	3847.7	4020.6	4185.5	4370.2	4507.7	4435.0	4360.3	3594.3
52.5°	2714.4	2738.0	3030.6	3570.8	3843.8	4126.6	4435.0	4735.5	4717.8	4647.1	3818.2
55°	2176.2	2213.6	2523.9	3109.2	3617.9	3995.0	4462.5	4943.7	5010.5	4945.7	4038.2
57.5°	1663.6	1702.9	1964.1	2565.1	3329.2	3780.9	4442.8	5126.4	5283.5	5242.2	4240.5
60°	1253.1	1292.4	1459.3	2080.0	2967.8	3541.3	4344.6	5246.2	5529.0	5485.8	4387.8
62.5°	897.6	929.0	1052.8	1618.4	2527.8	3256.5	4103.0	5248.1	5668.4	5633.1	4458.6
65°	646.2	646.2	746.4	1154.9	2115.4	2914.8	3737.7	5006.5	5639.0	5629.2	4409.4
67.5°	465.5	469.4	550.0	807.3	1687.2	2500.3	3264.4	4576.4	5411.1	5460.3	4232.7
70°	330.0	339.8	377.1	563.7	1274.7	1973.9	2757.6	4012.7	5000.6	5087.1	3890.9
72.5°	255.3	261.2	286.8	392.8	931.0	1467.2	2197.8	3384.2	4452.7	4550.9	3425.4
75°	196.4	202.3	221.9	288.7	667.8	1029.2	1561.5	2626.0	3590.4	3765.2	2751.7
77.5°	143.4	151.2	165.0	210.2	388.9	654.1	946.7	1477.0	1981.8	2064.3	1441.7
80°	66.8	76.6	96.2	135.5	210.2	308.4	335.9	569.6	952.6	995.8	781.7
82.5°	37.3	47.1	55.0	82.5	106.1	110.0	113.9	143.4	359.4	396.8	328.0
85°	17.7	23.6	25.5	35.4	35.4	31.4	37.3	27.5	58.9	70.7	68.7
87.5°	0.0	2.0	3.9	9.8	7.9	5.9	5.9	5.9	5.9	7.9	5.9
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: P836830

CATALOG NUMBER: ARCH3-80-730-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1706.8	1706.8	1706.8	1706.8	1706.8	1706.8	1706.8	1706.8	1706.8	1706.8	1706.8
2.5°	1718.6	1693.1	1634.1	1583.1	1549.7	1520.2	1480.9	1463.3	1431.8	1437.7	1420.1
5°	1728.4	1681.3	1577.2	1480.9	1410.2	1347.4	1278.6	1239.4	1196.1	1192.2	1178.5
7.5°	1734.3	1661.6	1512.4	1376.8	1268.8	1172.6	1080.3	1029.2	976.2	964.4	952.6
10°	1728.4	1632.2	1445.6	1268.8	1125.4	1005.6	901.5	836.7	781.7	768.0	756.2
12.5°	1734.3	1616.5	1382.7	1168.7	997.8	862.2	744.4	677.6	626.6	612.8	604.9
15°	1748.1	1606.6	1329.7	1078.3	883.9	732.6	616.7	559.8	518.5	504.8	500.9
17.5°	1759.9	1596.8	1272.7	989.9	769.9	618.7	518.5	471.4	436.0	422.3	418.4
20°	1775.6	1583.1	1215.8	905.5	669.8	528.3	440.0	398.7	371.2	361.4	359.4
22.5°	1789.3	1573.3	1162.8	821.0	577.5	455.7	381.0	347.6	328.0	318.2	318.2
25°	1824.7	1577.2	1117.6	742.4	508.7	398.7	335.9	310.3	294.6	288.7	288.7
27.5°	1865.9	1592.9	1082.2	675.7	449.8	355.5	304.4	282.8	275.0	267.1	269.1
30°	1924.8	1624.3	1058.7	620.7	406.6	322.1	278.9	263.2	255.3	253.4	253.4
32.5°	1999.5	1675.4	1056.7	585.3	375.1	296.6	261.2	247.5	243.6	241.6	241.6
35°	2087.9	1720.6	1044.9	569.6	355.5	278.9	247.5	237.7	235.7	235.7	235.7
37.5°	2193.9	1795.2	1037.1	548.0	345.7	269.1	237.7	229.8	229.8	229.8	229.8
40°	2303.9	1856.1	1025.3	528.3	341.8	263.2	231.8	221.9	221.9	221.9	221.9
42.5°	2435.5	1944.5	1021.3	518.5	335.9	259.3	223.9	212.1	214.1	214.1	216.1
45°	2594.6	2044.6	1019.4	508.7	333.9	255.3	216.1	202.3	204.3	202.3	202.3
47.5°	2755.7	2160.5	1025.3	502.8	331.9	251.4	210.2	192.5	192.5	190.5	190.5
50°	2924.6	2266.6	1029.2	496.9	328.0	243.6	200.3	184.6	180.7	176.8	178.7
52.5°	3083.7	2364.8	1031.2	487.1	316.2	231.8	192.5	174.8	168.9	163.0	165.0
55°	3242.8	2459.1	1035.1	475.3	300.5	220.0	182.7	165.0	157.1	149.3	149.3
57.5°	3386.1	2541.6	1025.3	445.9	282.8	208.2	172.8	153.2	141.4	133.6	133.6
60°	3484.3	2600.5	995.8	402.6	259.3	194.4	163.0	141.4	127.7	121.8	121.8
62.5°	3531.5	2610.3	942.8	331.9	229.8	180.7	151.2	129.6	117.8	113.9	113.9
65°	3486.3	2567.1	860.3	249.4	198.4	165.0	139.5	119.8	108.0	98.2	98.2
67.5°	3329.2	2445.3	746.4	188.6	168.9	149.3	127.7	110.0	96.2	88.4	88.4
70°	3013.0	2192.0	577.5	151.2	143.4	129.6	115.9	98.2	86.4	76.6	76.6
72.5°	2598.5	1858.1	406.6	121.8	121.8	110.0	98.2	86.4	74.6	66.8	66.8
75°	1993.6	1374.9	273.0	98.2	100.2	92.3	80.5	70.7	62.9	57.0	57.0
77.5°	1088.1	679.6	167.0	72.7	74.6	70.7	62.9	57.0	53.0	47.1	47.1
80°	528.3	298.5	96.2	51.1	53.0	51.1	47.1	41.2	41.2	37.3	37.3
82.5°	221.9	112.0	51.1	35.4	35.4	31.4	29.5	29.5	29.5	27.5	27.5
85°	55.0	21.6	21.6	19.6	19.6	19.6	17.7	17.7	17.7	13.7	15.7
87.5°	7.9	7.9	7.9	7.9	7.9	7.9	5.9	2.0	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)