

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: P800308

Luminaire Tested: **ARCH2-90-740-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-90-740-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

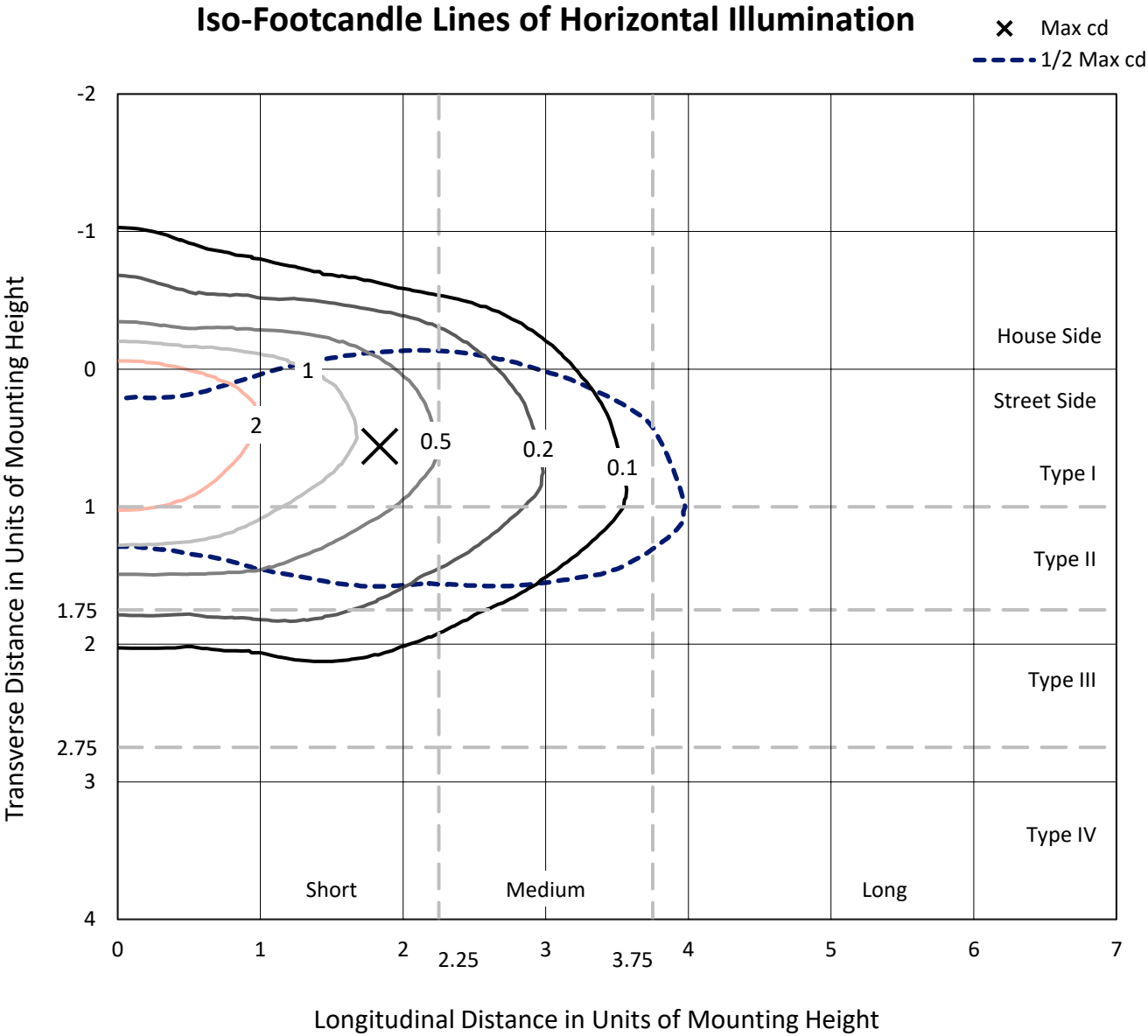
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8344 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 93.7
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

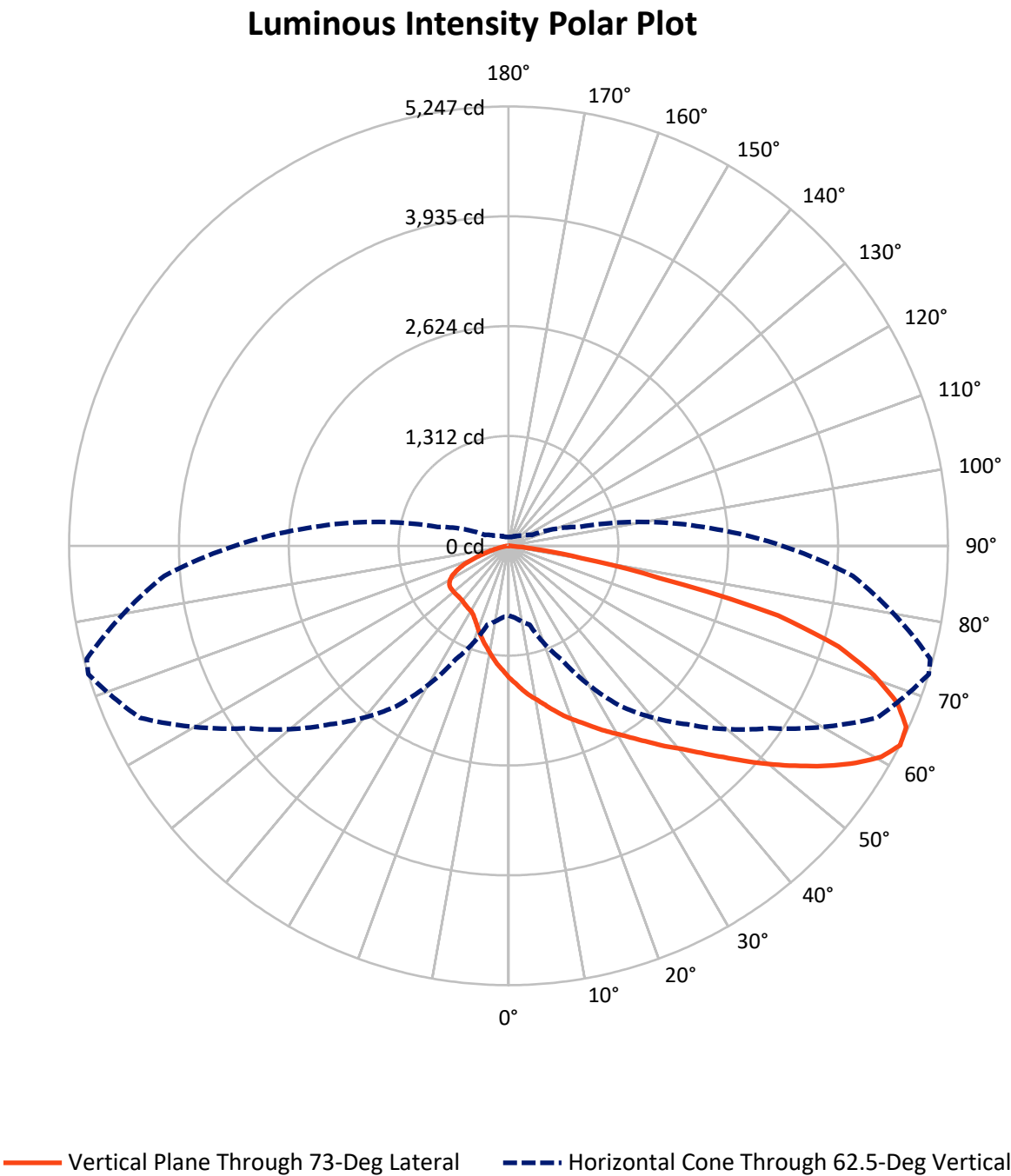


REPORT NUMBER: P800308
CATALOG NUMBER: ARCH2-90-740-U-T2U-HSS



Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type II - Short - N/A

REPORT NUMBER: P800308
CATALOG NUMBER: ARCH2-90-740-U-T2U-HSS



REPORT NUMBER: P800308

CATALOG NUMBER: ARCH2-90-740-U-T2U-HSS

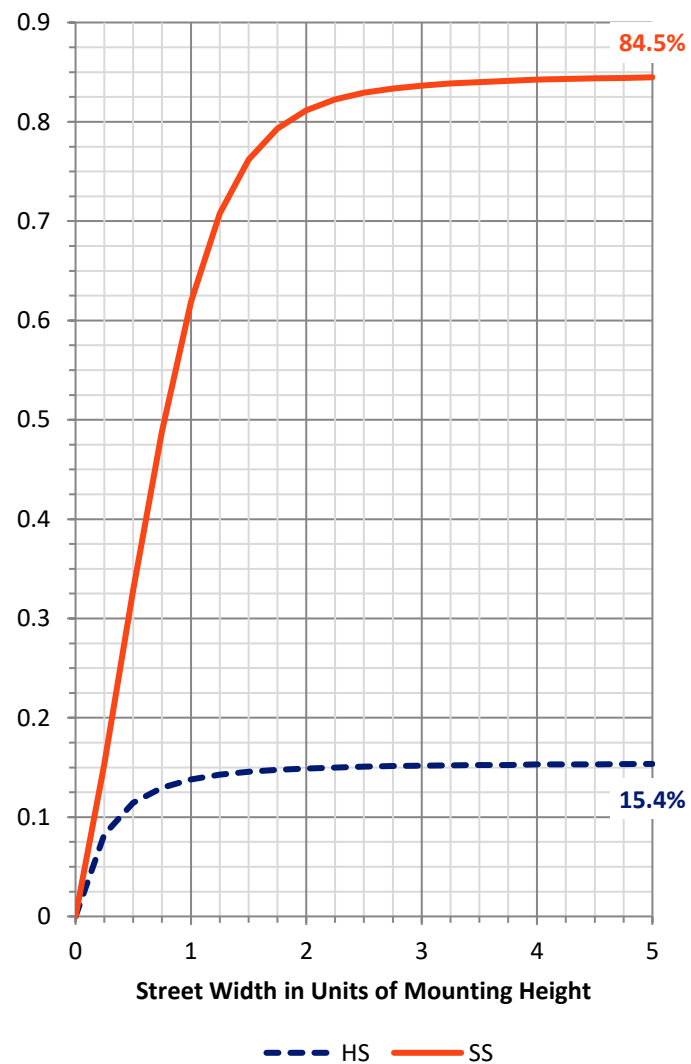
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1293.5	0.0	1293.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	7050.6	0.0	7050.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	8344.0	0.0	8344.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	1.8
10°-20°	460.6	5.5
20°-30°	766.6	9.2
30°-40°	1156.7	13.9
40°-50°	1616.8	19.4
50°-60°	1785.9	21.4
60°-70°	1555.7	18.6
70°-80°	785.9	9.4
80°-90°	63.1	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°	8344.0	100.0
0°-180°	8344.0	100.0

Coefficient of Utilization



REPORT NUMBER: P800308

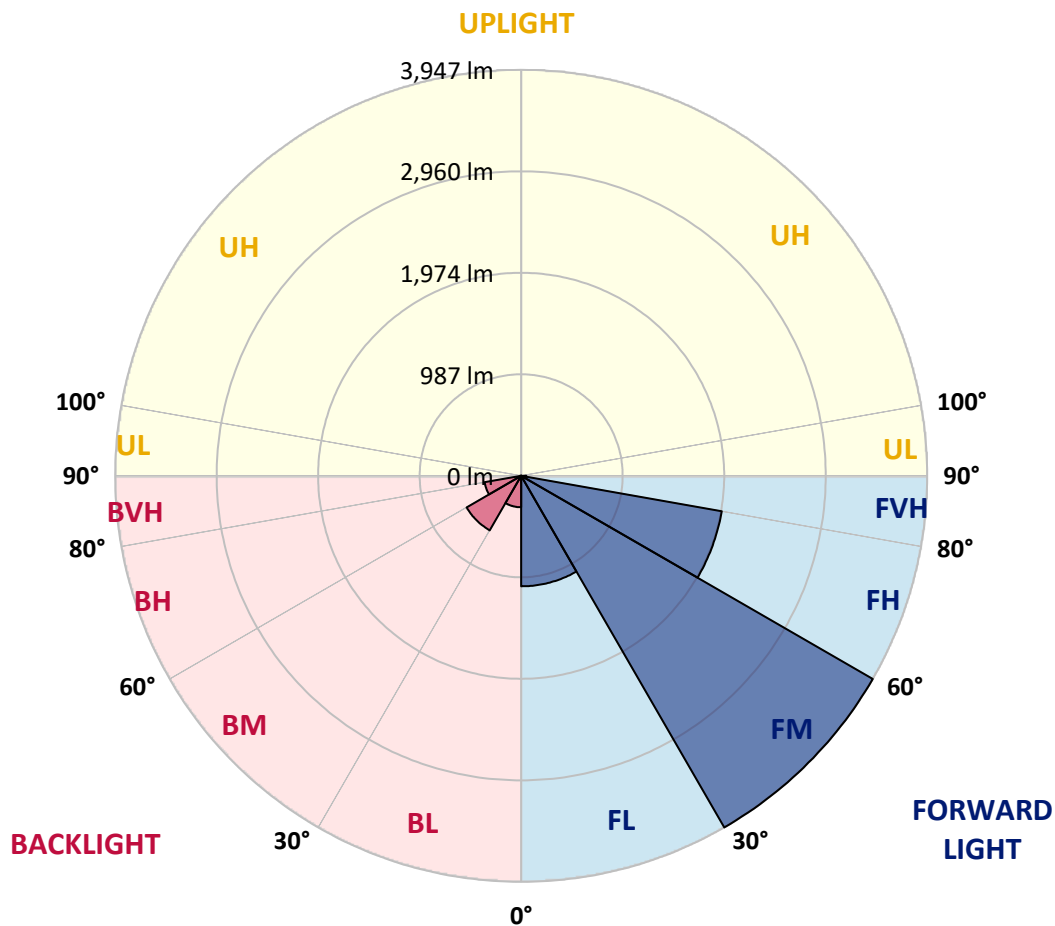
CATALOG NUMBER: ARCH2-90-740-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1074.1	12.9			
FM	(30°-60°)	3947.0	47.3			
FH	(60°-80°)	1980.6	23.7			G2/5000
FVH	(80°-90°)	48.8	0.6			G1/100
BL	(0°-30°)	305.7	3.7	B1/500		
BM	(30°-60°)	612.4	7.3	B1/1000		
BH	(60°-80°)	361.0	4.3	B1/500		G1/500
BVH	(80°-90°)	14.3	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: P800308

CATALOG NUMBER: ARCH2-90-740-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0
2.5°	1798.1	1818.1	1807.2	1814.5	1778.1	1754.5	1727.2	1674.5	1645.4	1641.8	1607.2
5°	2061.8	2083.6	2065.4	2059.9	1996.3	1941.8	1879.9	1787.2	1725.4	1714.5	1638.1
7.5°	2325.4	2345.4	2323.6	2307.2	2221.8	2125.4	2034.5	1898.1	1801.8	1783.6	1663.6
10°	2510.8	2529.0	2512.7	2496.3	2407.2	2309.0	2179.9	2001.8	1870.9	1841.8	1680.0
12.5°	2650.8	2661.7	2654.5	2639.9	2556.3	2450.8	2327.2	2118.1	1949.0	1912.7	1705.4
15°	2765.4	2783.6	2774.5	2763.6	2683.6	2578.1	2459.9	2239.9	2039.9	1994.5	1743.6
17.5°	2841.7	2854.5	2856.3	2856.3	2785.4	2681.7	2567.2	2350.8	2130.8	2072.7	1779.9
20°	2876.3	2890.8	2899.9	2914.5	2856.3	2767.2	2650.8	2445.4	2216.3	2150.8	1814.5
22.5°	2892.6	2905.4	2929.0	2961.7	2914.5	2839.9	2732.6	2532.7	2301.8	2232.7	1854.5
25°	2905.4	2921.7	2956.3	3018.1	2985.4	2921.7	2829.0	2632.7	2403.6	2332.7	1912.7
27.5°	2939.9	2959.9	2992.6	3067.2	3027.2	2996.3	2930.8	2739.9	2510.8	2438.1	1983.6
30°	3059.9	3076.3	3074.5	3121.7	3072.6	3063.5	3018.1	2843.6	2614.5	2541.7	2067.2
32.5°	3278.1	3294.4	3254.5	3236.3	3129.0	3130.8	3112.6	2954.5	2738.1	2663.6	2163.6
35°	3512.6	3530.8	3478.1	3447.2	3267.2	3214.5	3223.5	3092.6	2876.3	2801.7	2283.6
37.5°	3721.7	3743.5	3698.1	3652.6	3470.8	3349.0	3347.2	3247.2	3034.5	2958.1	2416.3
40°	3836.3	3861.7	3889.0	3863.5	3672.6	3538.1	3479.9	3405.4	3190.8	3112.6	2559.9
42.5°	3890.8	3961.7	4010.8	3994.4	3838.1	3701.7	3632.6	3570.8	3381.7	3305.4	2730.8
45°	3738.1	3739.9	3843.5	3932.6	3903.5	3812.6	3799.9	3756.3	3599.9	3527.2	2923.6
47.5°	3547.2	3532.6	3605.3	3763.5	3845.3	3869.0	3943.5	3961.7	3849.0	3776.3	3119.9
50°	3089.0	3098.1	3334.4	3561.7	3721.7	3874.4	4045.3	4172.6	4105.3	4036.2	3327.2
52.5°	2512.7	2534.5	2805.4	3305.4	3558.1	3819.9	4105.3	4383.5	4367.1	4301.7	3534.4
55°	2014.5	2049.0	2336.3	2878.1	3349.0	3698.1	4130.8	4576.2	4638.0	4578.0	3738.1
57.5°	1540.0	1576.3	1818.1	2374.5	3081.7	3499.9	4112.6	4745.3	4890.8	4852.6	3925.3
60°	1160.0	1196.3	1350.9	1925.4	2747.2	3278.1	4021.7	4856.2	5118.0	5078.0	4061.7
62.5°	830.9	860.0	974.5	1498.1	2339.9	3014.5	3798.1	4858.0	5247.1	5214.4	4127.2
65°	598.2	598.2	690.9	1069.1	1958.1	2698.1	3459.9	4634.4	5219.8	5210.8	4081.7
67.5°	430.9	434.5	509.1	747.3	1561.8	2314.5	3021.7	4236.2	5008.9	5054.4	3918.1
70°	305.4	314.5	349.1	521.8	1180.0	1827.2	2552.7	3714.4	4629.0	4709.0	3601.7
72.5°	236.4	241.8	265.4	363.6	861.8	1358.1	2034.5	3132.6	4121.7	4212.6	3170.8
75°	181.8	187.3	205.4	267.3	618.2	952.7	1445.4	2430.8	3323.5	3485.4	2547.2
77.5°	132.7	140.0	152.7	194.5	360.0	605.4	876.3	1367.2	1834.5	1910.9	1334.5
80°	61.8	70.9	89.1	125.5	194.5	285.4	310.9	527.3	881.8	921.8	723.6
82.5°	34.5	43.6	50.9	76.4	98.2	101.8	105.5	132.7	332.7	367.3	303.6
85°	16.4	21.8	23.6	32.7	32.7	29.1	34.5	25.5	54.5	65.5	63.6
87.5°	0.0	1.8	3.6	9.1	7.3	5.5	5.5	5.5	5.5	7.3	5.5
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: P800308

CATALOG NUMBER: ARCH2-90-740-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0	1580.0
2.5°	1590.9	1567.2	1512.7	1465.4	1434.5	1407.2	1370.9	1354.5	1325.4	1330.9	1314.5
5°	1600.0	1556.3	1460.0	1370.9	1305.4	1247.2	1183.6	1147.2	1107.2	1103.6	1090.9
7.5°	1605.4	1538.1	1400.0	1274.5	1174.5	1085.4	1000.0	952.7	903.6	892.7	881.8
10°	1600.0	1510.9	1338.1	1174.5	1041.8	930.9	834.5	774.5	723.6	710.9	700.0
12.5°	1605.4	1496.3	1280.0	1081.8	923.6	798.2	689.1	627.3	580.0	567.3	560.0
15°	1618.1	1487.2	1230.9	998.2	818.2	678.2	570.9	518.2	480.0	467.3	463.6
17.5°	1629.0	1478.1	1178.1	916.3	712.7	572.7	480.0	436.4	403.6	390.9	387.3
20°	1643.6	1465.4	1125.4	838.2	620.0	489.1	407.3	369.1	343.6	334.5	332.7
22.5°	1656.3	1456.3	1076.3	760.0	534.5	421.8	352.7	321.8	303.6	294.5	294.5
25°	1689.0	1460.0	1034.5	687.3	470.9	369.1	310.9	287.3	272.7	267.3	267.3
27.5°	1727.2	1474.5	1001.8	625.4	416.4	329.1	281.8	261.8	254.5	247.3	249.1
30°	1781.8	1503.6	980.0	574.5	376.4	298.2	258.2	243.6	236.4	234.5	234.5
32.5°	1850.9	1550.9	978.2	541.8	347.3	274.5	241.8	229.1	225.4	223.6	223.6
35°	1932.7	1592.7	967.2	527.3	329.1	258.2	229.1	220.0	218.2	218.2	218.2
37.5°	2030.9	1661.8	960.0	507.3	320.0	249.1	220.0	212.7	212.7	212.7	212.7
40°	2132.7	1718.1	949.1	489.1	316.4	243.6	214.5	205.4	205.4	205.4	205.4
42.5°	2254.5	1799.9	945.4	480.0	310.9	240.0	207.3	196.4	198.2	198.2	200.0
45°	2401.7	1892.7	943.6	470.9	309.1	236.4	200.0	187.3	189.1	187.3	187.3
47.5°	2550.8	1999.9	949.1	465.4	307.3	232.7	194.5	178.2	178.2	176.4	176.4
50°	2707.2	2098.1	952.7	460.0	303.6	225.4	185.4	170.9	167.3	163.6	165.4
52.5°	2854.5	2189.0	954.5	450.9	292.7	214.5	178.2	161.8	156.4	150.9	152.7
55°	3001.7	2276.3	958.2	440.0	278.2	203.6	169.1	152.7	145.5	138.2	138.2
57.5°	3134.5	2352.7	949.1	412.7	261.8	192.7	160.0	141.8	130.9	123.6	123.6
60°	3225.4	2407.2	921.8	372.7	240.0	180.0	150.9	130.9	118.2	112.7	112.7
62.5°	3269.0	2416.3	872.7	307.3	212.7	167.3	140.0	120.0	109.1	105.5	105.5
65°	3227.2	2376.3	796.3	230.9	183.6	152.7	129.1	110.9	100.0	90.9	90.9
67.5°	3081.7	2263.6	690.9	174.5	156.4	138.2	118.2	101.8	89.1	81.8	81.8
70°	2789.0	2029.0	534.5	140.0	132.7	120.0	107.3	90.9	80.0	70.9	70.9
72.5°	2405.4	1720.0	376.4	112.7	112.7	101.8	90.9	80.0	69.1	61.8	61.8
75°	1845.4	1272.7	252.7	90.9	92.7	85.5	74.5	65.5	58.2	52.7	52.7
77.5°	1007.2	629.1	154.5	67.3	69.1	65.5	58.2	52.7	49.1	43.6	43.6
80°	489.1	276.4	89.1	47.3	49.1	47.3	43.6	38.2	38.2	34.5	34.5
82.5°	205.4	103.6	47.3	32.7	32.7	29.1	27.3	27.3	27.3	25.5	25.5
85°	50.9	20.0	20.0	18.2	18.2	18.2	16.4	16.4	16.4	12.7	14.5
87.5°	7.3	7.3	7.3	7.3	7.3	7.3	5.5	1.8	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)