

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: P799252

Luminaire Tested: **ARCH2-100-730-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799252
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: ARCH2-100-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

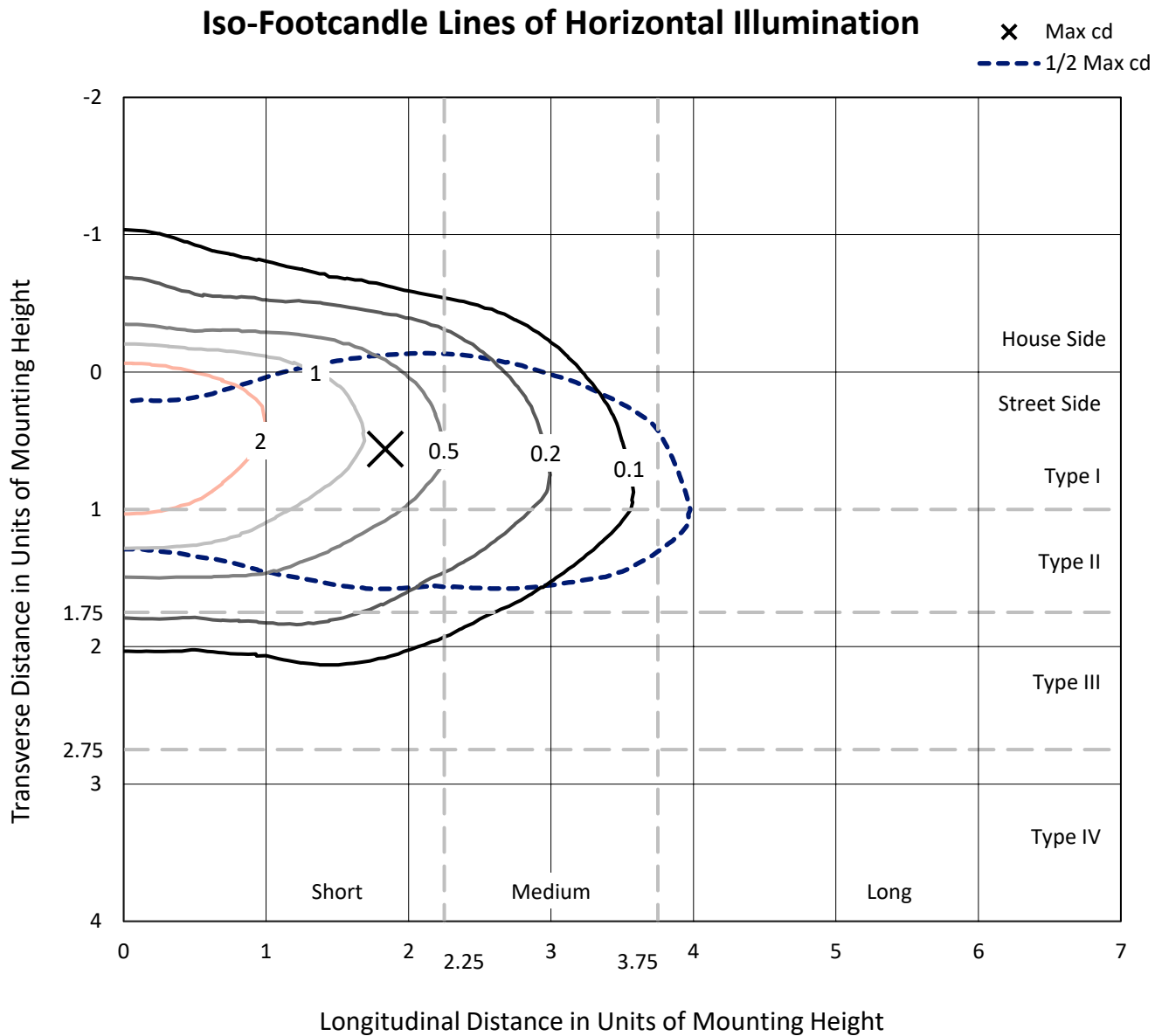
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8466 lumens
Efficiency: N/A
Efficacy: 82.0 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): 103.3
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



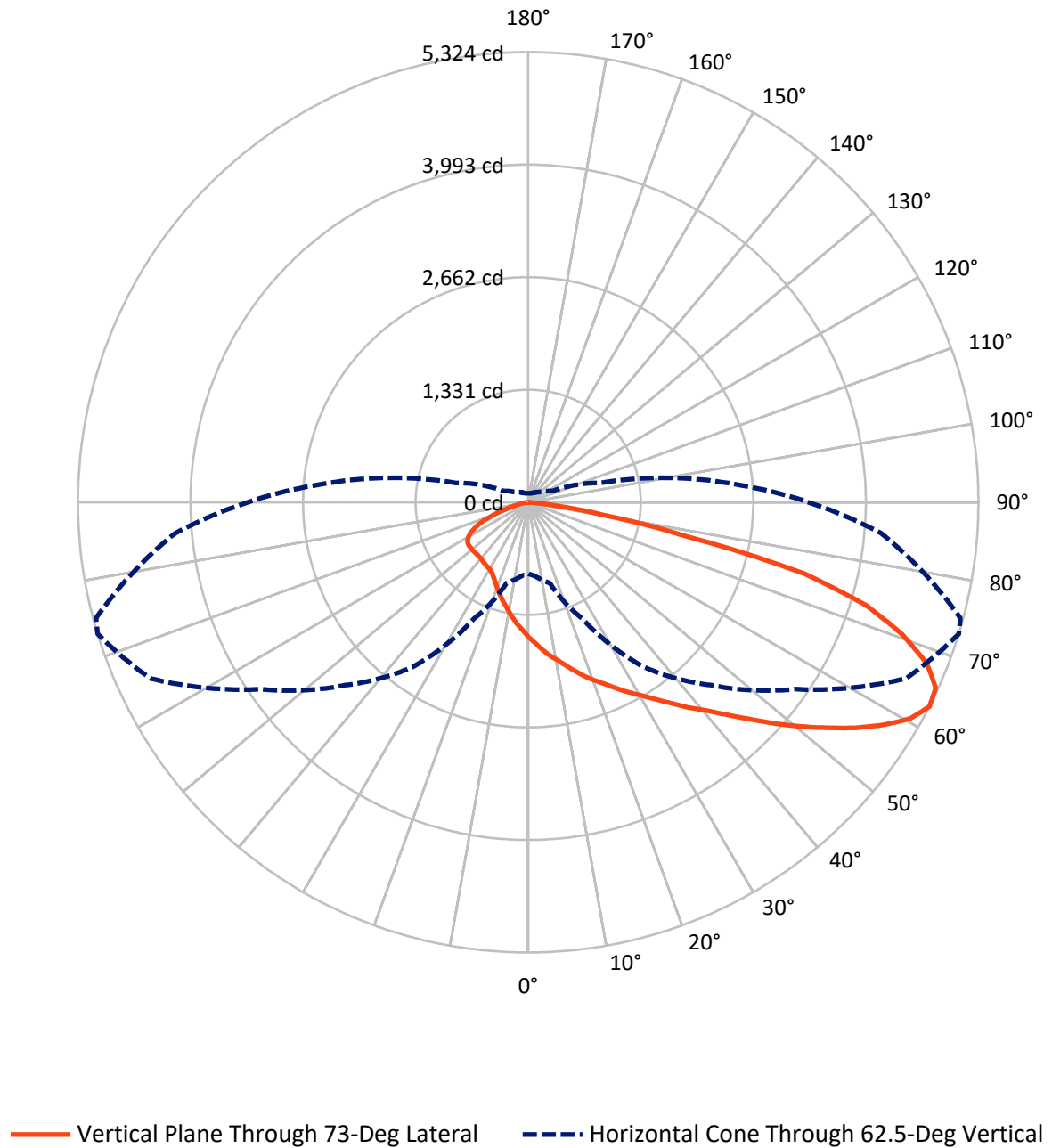
REPORT NUMBER: P799252
CATALOG NUMBER: ARCH2-100-730-U-T2U-HSS



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

REPORT NUMBER: P799252
CATALOG NUMBER: ARCH2-100-730-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P799252

CATALOG NUMBER: ARCH2-100-730-U-T2U-HSS

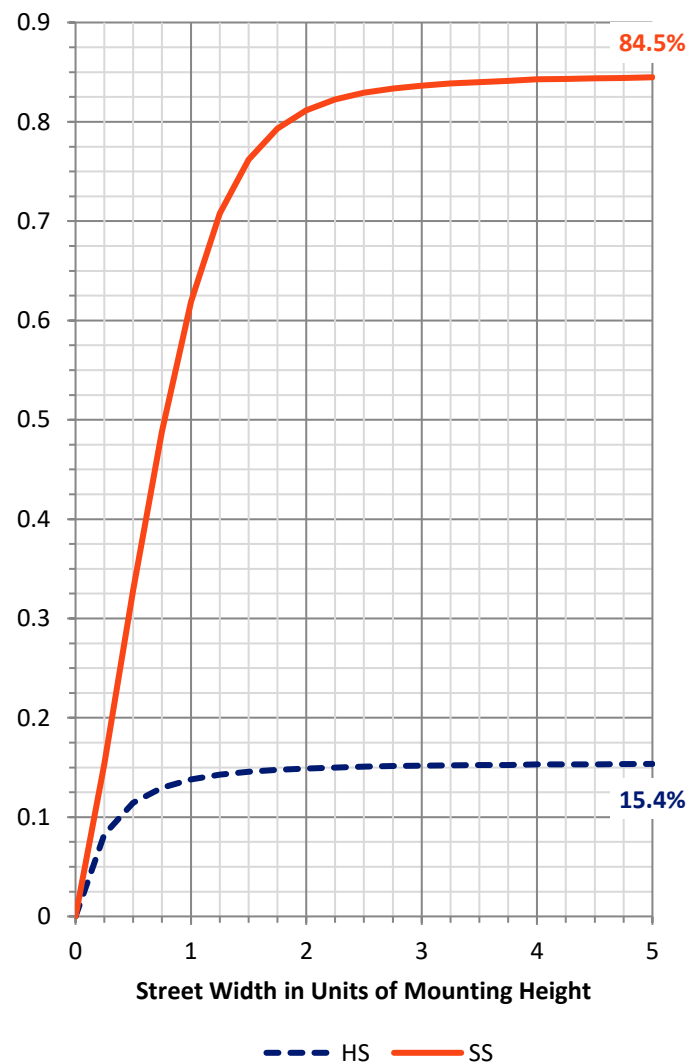
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1312.4	0.0	1312.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	7153.6	0.0	7153.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	8466.0	0.0	8466.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.9	1.8
10°-20°	467.3	5.5
20°-30°	777.8	9.2
30°-40°	1173.7	13.9
40°-50°	1640.5	19.4
50°-60°	1812.0	21.4
60°-70°	1578.5	18.6
70°-80°	797.4	9.4
80°-90°	64.0	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°	8466.0	100.0
0°-180°	8466.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799252

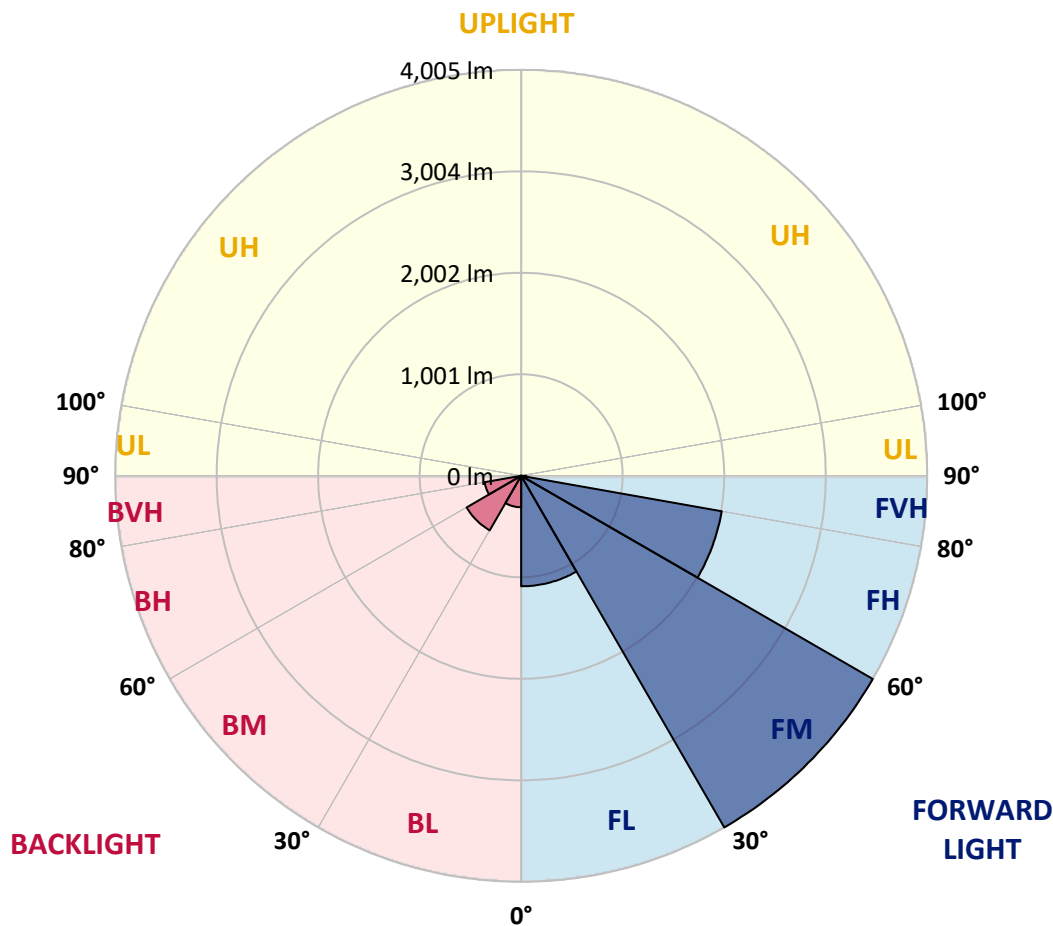
CATALOG NUMBER: ARCH2-100-730-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1089.8	12.9			
FM	(30°-60°)	4004.7	47.3			
FH	(60°-80°)	2009.6	23.7			G2/5000
FVH	(80°-90°)	49.5	0.6			G1/100
BL	(0°-30°)	310.2	3.7	B1/500		
BM	(30°-60°)	621.4	7.3	B1/1000		
BH	(60°-80°)	366.3	4.3	B1/500		G1/500
BVH	(80°-90°)	14.5	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: P799252

CATALOG NUMBER: ARCH2-100-730-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1
2.5°	1824.4	1844.7	1833.6	1841.0	1804.1	1780.1	1752.5	1699.0	1669.5	1665.8	1630.7
5°	2091.9	2114.0	2095.6	2090.1	2025.5	1970.2	1907.4	1813.4	1750.6	1739.6	1662.1
7.5°	2359.4	2379.7	2357.5	2340.9	2254.2	2156.5	2064.2	1925.9	1828.1	1809.7	1687.9
10°	2547.5	2566.0	2549.4	2532.8	2442.4	2342.8	2211.8	2031.0	1898.2	1868.7	1704.5
12.5°	2689.6	2700.7	2693.3	2678.5	2593.7	2486.7	2361.2	2149.1	1977.5	1940.6	1730.3
15°	2805.8	2824.3	2815.0	2804.0	2722.8	2615.8	2495.9	2272.7	2069.8	2023.6	1769.1
17.5°	2883.3	2896.2	2898.0	2898.0	2826.1	2721.0	2604.7	2385.2	2162.0	2103.0	1806.0
20°	2918.3	2933.1	2942.3	2957.1	2898.0	2807.7	2689.6	2481.1	2248.7	2182.3	1841.0
22.5°	2934.9	2947.9	2971.8	3005.0	2957.1	2881.4	2772.6	2569.7	2335.4	2265.3	1881.6
25°	2947.9	2964.5	2999.5	3062.2	3029.0	2964.5	2870.4	2671.1	2438.7	2366.8	1940.6
27.5°	2982.9	3003.2	3036.4	3112.0	3071.4	3040.1	2973.7	2780.0	2547.5	2473.8	2012.6
30°	3104.7	3121.3	3119.4	3167.4	3117.6	3108.3	3062.2	2885.1	2652.7	2578.9	2097.4
32.5°	3326.0	3342.6	3302.0	3283.6	3174.7	3176.6	3158.1	2997.7	2778.1	2702.5	2195.2
35°	3564.0	3582.4	3528.9	3497.6	3314.9	3261.5	3270.7	3137.9	2918.3	2842.7	2317.0
37.5°	3776.1	3798.3	3752.1	3706.0	3521.6	3398.0	3396.1	3294.7	3078.8	3001.3	2451.6
40°	3892.3	3918.2	3945.8	3920.0	3726.3	3589.8	3530.8	3455.1	3237.5	3158.1	2597.4
42.5°	3947.7	4019.6	4069.4	4052.8	3894.2	3755.8	3685.7	3623.0	3431.2	3353.7	2770.8
45°	3792.7	3794.6	3899.7	3990.1	3960.6	3868.4	3855.4	3811.2	3652.5	3578.7	2966.3
47.5°	3599.0	3584.3	3658.1	3818.6	3901.6	3925.5	4001.2	4019.6	3905.3	3831.5	3165.5
50°	3134.2	3143.4	3383.2	3613.8	3776.1	3931.1	4104.5	4233.6	4165.4	4095.3	3375.8
52.5°	2549.4	2571.5	2846.4	3353.7	3610.1	3875.7	4165.4	4447.6	4431.0	4364.6	3586.1
55°	2043.9	2079.0	2370.5	2920.2	3398.0	3752.1	4191.2	4643.1	4705.9	4645.0	3792.7
57.5°	1562.5	1599.4	1844.7	2409.2	3126.8	3551.1	4172.7	4814.7	4962.3	4923.5	3982.7
60°	1176.9	1213.8	1370.6	1953.6	2787.4	3326.0	4080.5	4927.2	5192.9	5152.3	4121.1
62.5°	843.0	872.5	988.8	1520.0	2374.1	3058.5	3853.6	4929.1	5323.8	5290.6	4187.5
65°	606.9	606.9	701.0	1084.7	1986.8	2737.6	3510.5	4702.2	5296.2	5286.9	4141.4
67.5°	437.2	440.9	516.5	758.2	1584.6	2348.3	3065.9	4298.2	5082.2	5128.3	3975.4
70°	309.9	319.1	354.2	529.4	1197.2	1853.9	2590.0	3768.7	4696.6	4777.8	3654.4
72.5°	239.8	245.3	269.3	368.9	874.4	1378.0	2064.2	3178.4	4182.0	4274.2	3217.2
75°	184.5	190.0	208.5	271.2	627.2	966.6	1466.5	2466.4	3372.1	3536.3	2584.4
77.5°	134.7	142.0	155.0	197.4	365.3	614.3	889.2	1387.2	1861.3	1938.8	1354.0
80°	62.7	71.9	90.4	127.3	197.4	289.6	315.4	535.0	894.7	935.3	734.2
82.5°	35.0	44.3	51.7	77.5	99.6	103.3	107.0	134.7	337.6	372.6	308.1
85°	16.6	22.1	24.0	33.2	33.2	29.5	35.0	25.8	55.3	66.4	64.6
87.5°	0.0	1.8	3.7	9.2	7.4	5.5	5.5	5.5	5.5	7.4	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: P799252

CATALOG NUMBER: ARCH2-100-730-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1
2.5°	1614.1	1590.1	1534.8	1486.8	1455.5	1427.8	1390.9	1374.3	1344.8	1350.3	1333.7
5°	1623.3	1579.1	1481.3	1390.9	1324.5	1265.5	1200.9	1164.0	1123.4	1119.7	1106.8
7.5°	1628.9	1560.6	1420.4	1293.1	1191.7	1101.3	1014.6	966.6	916.8	905.8	894.7
10°	1623.3	1533.0	1357.7	1191.7	1057.0	944.5	846.7	785.8	734.2	721.3	710.2
12.5°	1628.9	1518.2	1298.7	1097.6	937.1	809.8	699.1	636.4	588.5	575.6	568.2
15°	1641.8	1509.0	1248.9	1012.7	830.1	688.1	579.2	525.7	487.0	474.1	470.4
17.5°	1652.9	1499.8	1195.4	929.7	723.1	581.1	487.0	442.7	409.5	396.6	392.9
20°	1667.6	1486.8	1141.9	850.4	629.0	496.2	413.2	374.5	348.7	339.4	337.6
22.5°	1680.5	1477.6	1092.1	771.1	542.3	428.0	357.9	326.5	308.1	298.8	298.8
25°	1713.7	1481.3	1049.6	697.3	477.8	374.5	315.4	291.5	276.7	271.2	271.2
27.5°	1752.5	1496.1	1016.4	634.6	422.4	333.9	285.9	265.6	258.3	250.9	252.7
30°	1807.8	1525.6	994.3	582.9	381.9	302.5	261.9	247.2	239.8	238.0	238.0
32.5°	1877.9	1573.5	992.5	549.7	352.3	278.6	245.3	232.4	228.7	226.9	226.9
35°	1960.9	1616.0	981.4	535.0	333.9	261.9	232.4	223.2	221.4	221.4	221.4
37.5°	2060.5	1686.1	974.0	514.7	324.7	252.7	223.2	215.8	215.8	215.8	215.8
40°	2163.8	1743.3	962.9	496.2	321.0	247.2	217.7	208.5	208.5	208.5	208.5
42.5°	2287.4	1826.3	959.3	487.0	315.4	243.5	210.3	199.2	201.1	201.1	202.9
45°	2436.9	1920.3	957.4	477.8	313.6	239.8	202.9	190.0	191.9	190.0	190.0
47.5°	2588.1	2029.2	962.9	472.2	311.8	236.1	197.4	180.8	180.8	178.9	178.9
50°	2746.8	2128.8	966.6	466.7	308.1	228.7	188.2	173.4	169.7	166.0	167.9
52.5°	2896.2	2221.0	968.5	457.5	297.0	217.7	180.8	164.2	158.6	153.1	155.0
55°	3045.6	2309.6	972.2	446.4	282.2	206.6	171.6	155.0	147.6	140.2	140.2
57.5°	3180.3	2387.1	962.9	418.7	265.6	195.5	162.3	143.9	132.8	125.4	125.4
60°	3272.5	2442.4	935.3	378.2	243.5	182.6	153.1	132.8	119.9	114.4	114.4
62.5°	3316.8	2451.6	885.5	311.8	215.8	169.7	142.0	121.8	110.7	107.0	107.0
65°	3274.4	2411.0	808.0	234.3	186.3	155.0	131.0	112.5	101.5	92.2	92.2
67.5°	3126.8	2296.7	701.0	177.1	158.6	140.2	119.9	103.3	90.4	83.0	83.0
70°	2829.8	2058.7	542.3	142.0	134.7	121.8	108.8	92.2	81.2	71.9	71.9
72.5°	2440.6	1745.1	381.9	114.4	114.4	103.3	92.2	81.2	70.1	62.7	62.7
75°	1872.4	1291.3	256.4	92.2	94.1	86.7	75.6	66.4	59.0	53.5	53.5
77.5°	1022.0	638.3	156.8	68.3	70.1	66.4	59.0	53.5	49.8	44.3	44.3
80°	496.2	280.4	90.4	48.0	49.8	48.0	44.3	38.7	38.7	35.0	35.0
82.5°	208.5	105.1	48.0	33.2	33.2	29.5	27.7	27.7	27.7	25.8	25.8
85°	51.7	20.3	20.3	18.4	18.4	18.4	16.6	16.6	16.6	12.9	14.8
87.5°	7.4	7.4	7.4	7.4	7.4	7.4	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)