

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: P799896

Luminaire Tested: **ARCH2-60-730-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-60-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

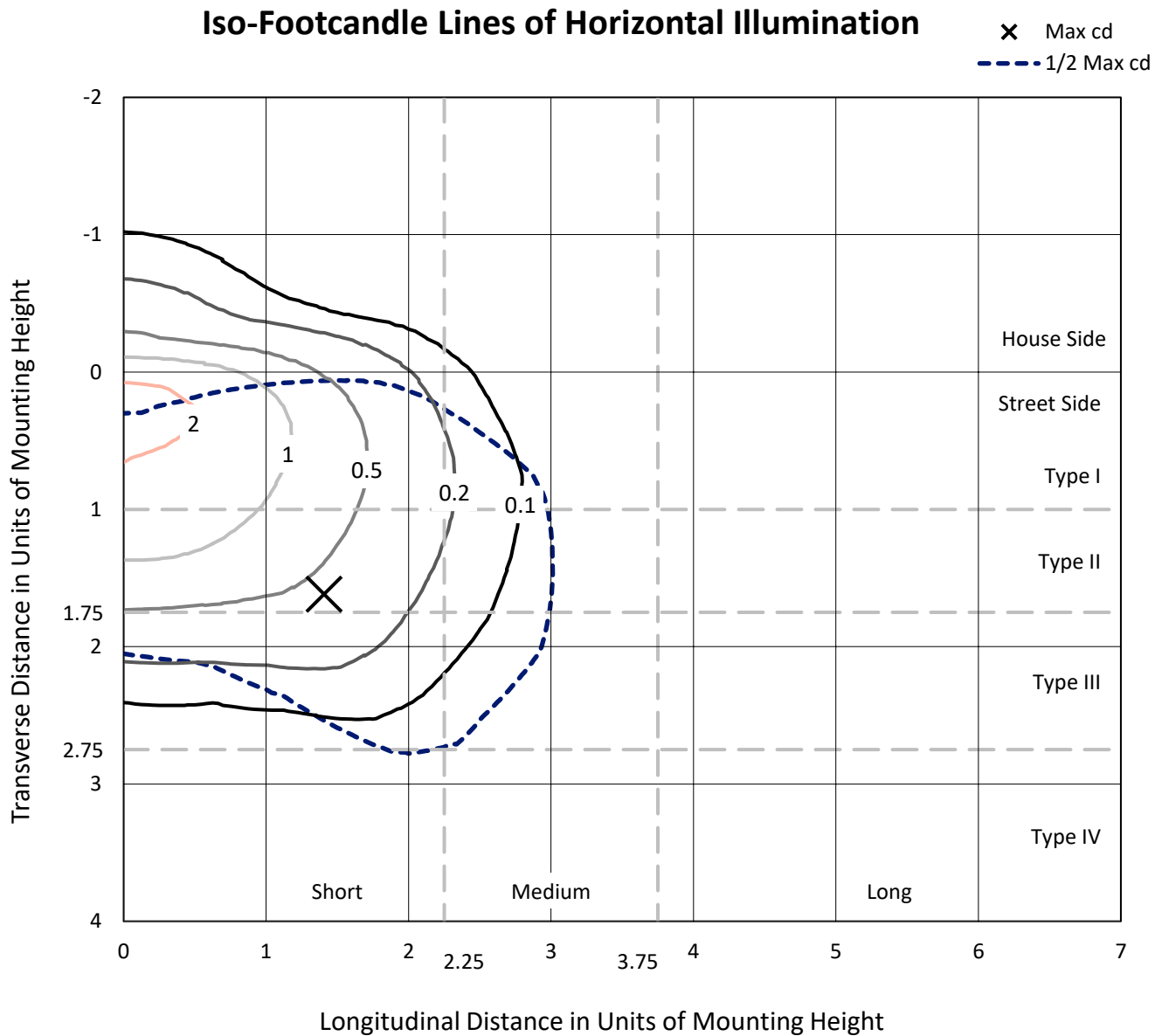
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6154 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63.8
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



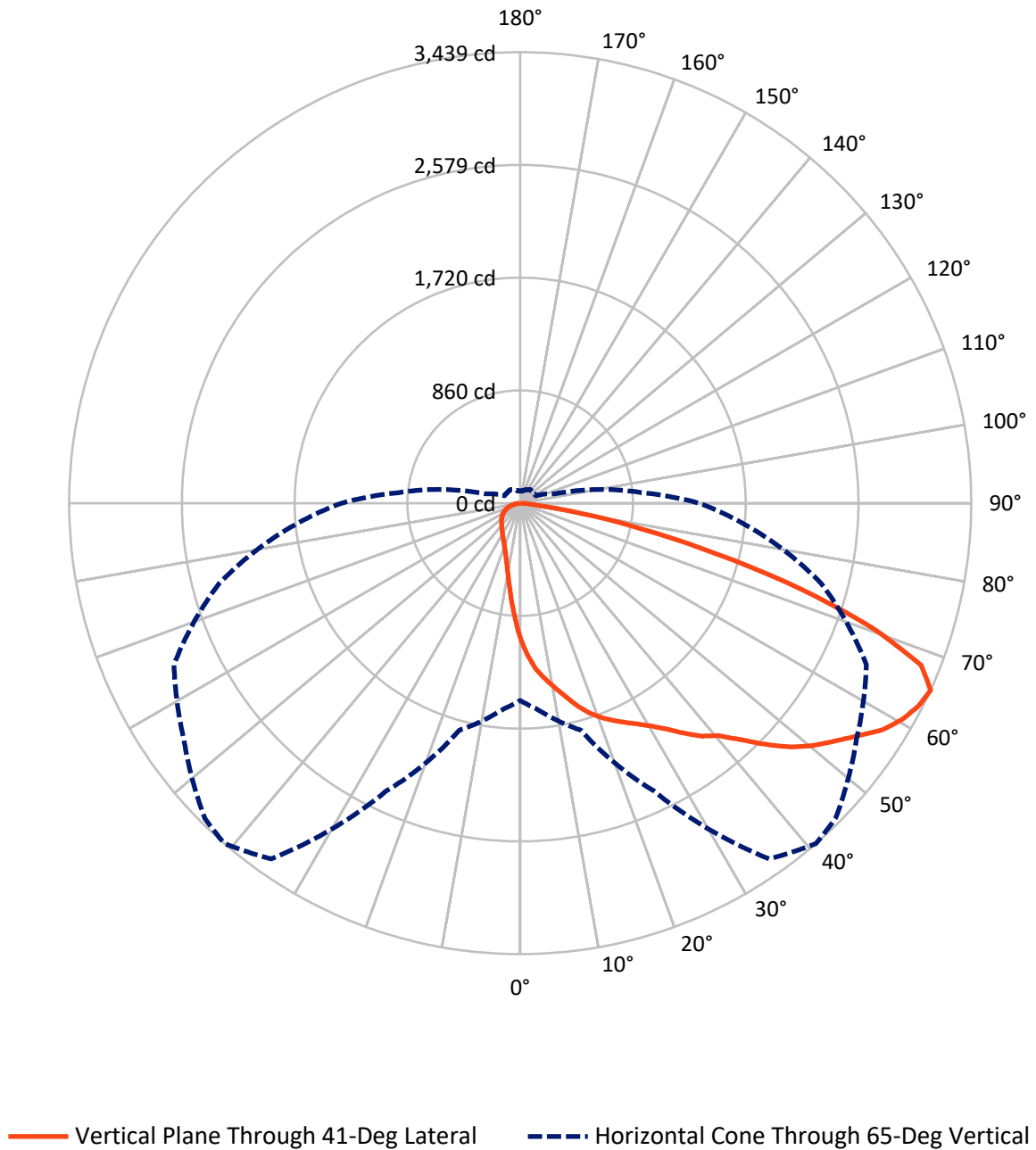
REPORT NUMBER: P799896
CATALOG NUMBER: ARCH2-60-730-U-T4W-HSS



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type III - Short - N/A

REPORT NUMBER: P799896
CATALOG NUMBER: ARCH2-60-730-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P799896

CATALOG NUMBER: ARCH2-60-730-U-T4W-HSS

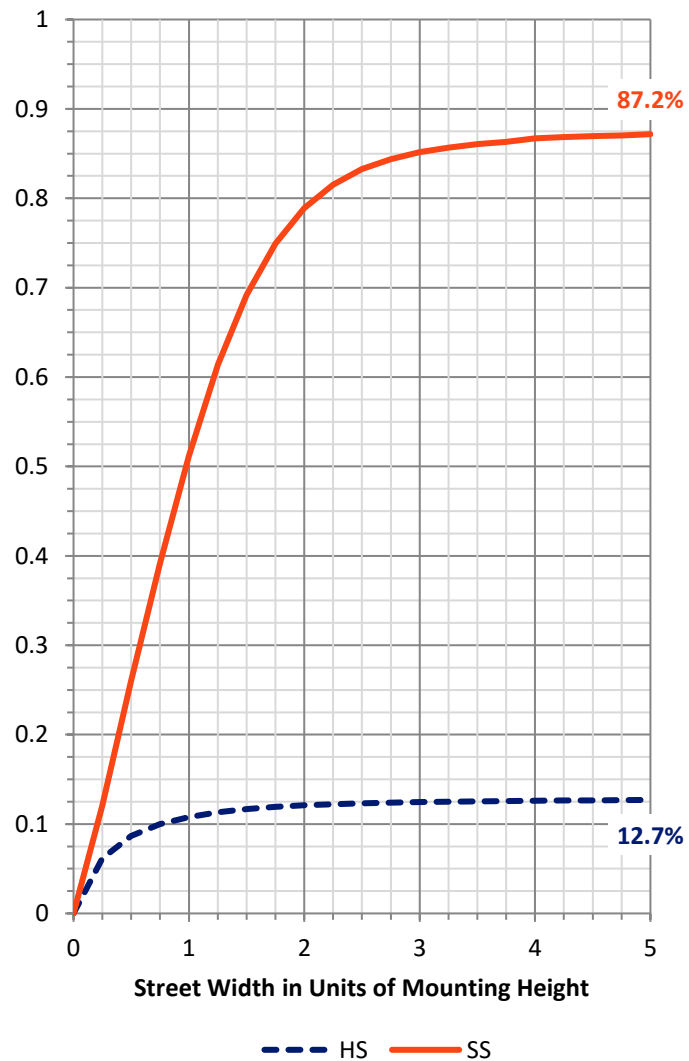
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	790.1	0.0	790.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	5363.9	0.0	5363.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	6154.0	0.0	6154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	1.6
10°-20°	293.0	4.8
20°-30°	504.0	8.2
30°-40°	764.4	12.4
40°-50°	1119.9	18.2
50°-60°	1414.2	23.0
60°-70°	1326.0	21.5
70°-80°	591.0	9.6
80°-90°	43.8	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°	6154.0	100.0
0°-180°	6154.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799896

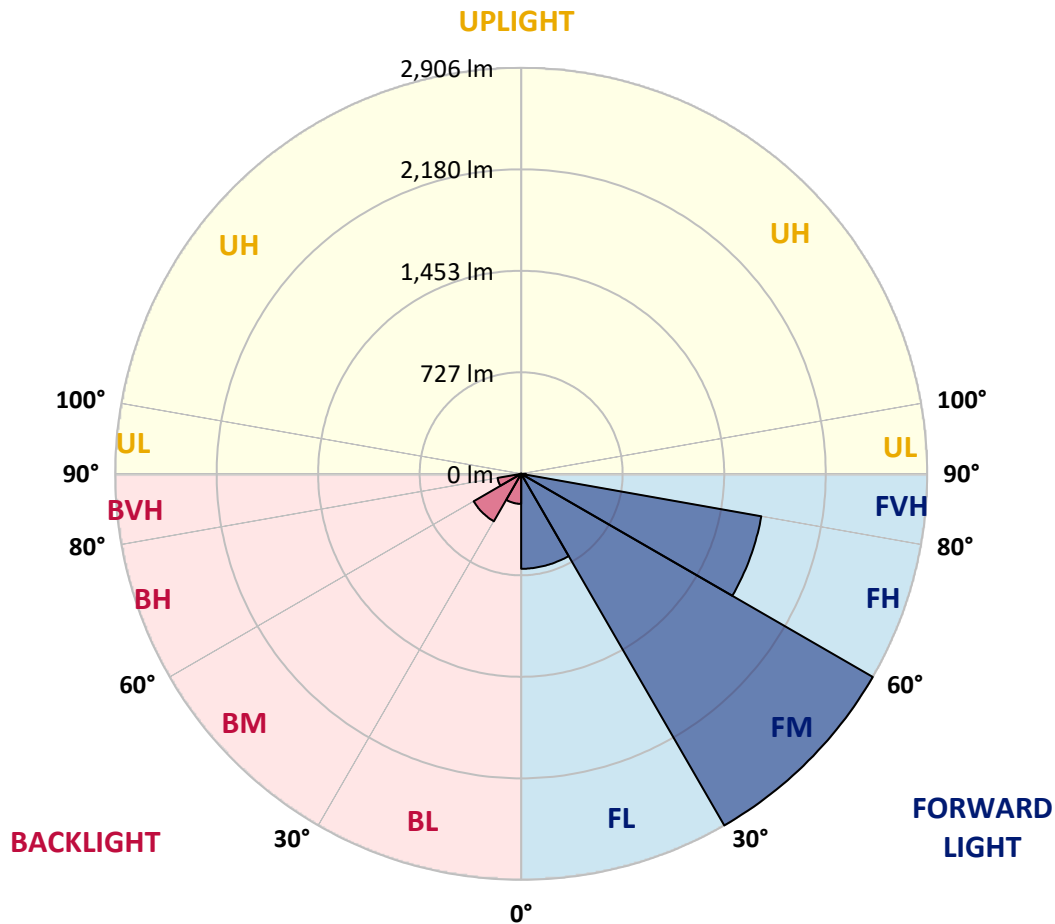
CATALOG NUMBER: ARCH2-60-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	679.6	11.0			
FM	(30°-60°)	2906.2	47.2			
FH	(60°-80°)	1745.4	28.4			G1/1800
FVH	(80°-90°)	32.7	0.5			G1/100
BL	(0°-30°)	215.0	3.5	B1/500		
BM	(30°-60°)	392.3	6.4	B1/1000		
BH	(60°-80°)	171.6	2.8	B1/500		G1/500
BVH	(80°-90°)	11.1	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-G1

Type III Short



REPORT NUMBER: P799896

CATALOG NUMBER: ARCH2-60-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6
2.5°	1209.5	1205.6	1203.0	1188.8	1188.8	1169.3	1170.6	1152.4	1130.4	1095.3	1057.7
5°	1323.7	1318.5	1312.1	1297.8	1292.6	1273.1	1270.5	1244.6	1206.9	1145.9	1078.5
7.5°	1423.7	1418.5	1409.4	1388.6	1374.4	1351.0	1344.5	1310.8	1269.2	1194.0	1099.2
10°	1514.5	1510.6	1498.9	1473.0	1453.5	1425.0	1413.3	1367.9	1316.0	1232.9	1116.1
12.5°	1606.7	1601.5	1585.9	1563.8	1540.5	1506.7	1492.5	1434.1	1367.9	1275.7	1140.8
15°	1692.3	1684.5	1672.8	1649.5	1628.7	1596.3	1580.7	1511.9	1431.5	1323.7	1173.2
17.5°	1748.1	1741.6	1731.2	1718.3	1701.4	1676.7	1661.2	1593.7	1495.0	1370.5	1206.9
20°	1781.9	1779.3	1775.4	1767.6	1759.8	1742.9	1731.2	1667.7	1563.8	1415.9	1239.4
22.5°	1807.8	1805.2	1803.9	1803.9	1805.2	1798.7	1790.9	1736.4	1630.0	1463.9	1269.2
25°	1848.0	1846.7	1844.2	1841.6	1850.6	1851.9	1849.3	1811.7	1713.1	1527.5	1306.9
27.5°	1903.8	1900.0	1894.8	1892.2	1901.3	1907.7	1912.9	1887.0	1801.3	1592.4	1349.7
30°	1989.5	1977.8	1964.8	1955.8	1962.2	1972.6	1984.3	1968.7	1892.2	1672.8	1393.8
32.5°	2090.7	2076.5	2046.6	2029.7	2046.6	2054.4	2063.5	2055.7	1986.9	1759.8	1437.9
35°	2214.0	2197.1	2166.0	2141.3	2171.2	2154.3	2150.4	2142.6	2076.5	1845.4	1487.3
37.5°	2419.1	2394.4	2345.1	2290.6	2290.6	2254.3	2240.0	2216.6	2156.9	1922.0	1535.3
40°	2656.6	2624.1	2560.5	2480.1	2406.1	2330.8	2321.7	2304.9	2251.7	2010.3	1589.8
42.5°	2917.4	2855.1	2766.9	2669.5	2550.1	2464.5	2443.7	2395.7	2343.8	2099.8	1644.3
45°	3206.8	3077.0	2948.6	2899.2	2702.0	2624.1	2585.2	2498.2	2439.8	2193.3	1701.4
47.5°	3253.5	3152.3	3066.7	3058.9	2843.4	2778.6	2734.4	2609.8	2543.7	2293.2	1761.1
50°	3227.6	3166.6	3175.7	3144.5	2947.3	2904.4	2870.7	2729.2	2646.2	2389.2	1815.6
52.5°	3118.6	3152.3	3204.2	3147.1	3045.9	3010.9	2994.0	2857.7	2742.2	2477.5	1864.9
55°	2988.8	3012.2	3123.8	3193.8	3160.1	3129.0	3113.4	3007.0	2837.0	2551.4	1910.3
57.5°	2799.3	2788.9	2912.2	3186.1	3279.5	3261.3	3244.5	3153.6	2925.2	2604.7	1938.9
60°	2515.1	2493.0	2648.8	3030.3	3318.4	3347.0	3339.2	3250.9	2992.7	2603.4	1927.2
62.5°	2023.2	2077.8	2293.2	2776.0	3335.3	3408.0	3393.7	3258.7	3014.8	2528.1	1853.2
65°	1504.1	1582.0	1793.5	2425.6	3311.9	3439.1	3400.2	3131.6	2912.2	2378.8	1691.0
67.5°	1083.6	1152.4	1306.9	1996.0	3087.4	3296.4	3250.9	2923.9	2676.0	2167.3	1466.5
70°	741.0	790.4	895.5	1453.5	2635.8	2849.9	2821.4	2613.7	2303.6	1915.5	1191.4
72.5°	523.0	543.8	611.3	959.1	2002.5	2236.1	2202.3	2150.4	1850.6	1592.4	926.6
75°	391.9	404.9	441.2	620.3	1351.0	1549.6	1518.4	1548.3	1382.1	1205.6	674.8
77.5°	147.9	160.9	250.5	395.8	799.4	951.3	920.1	938.3	768.3	608.7	336.1
80°	40.2	42.8	83.1	188.2	363.4	473.7	430.9	369.9	285.5	280.3	177.8
82.5°	16.9	19.5	37.6	101.2	129.8	129.8	109.0	135.0	109.0	131.1	85.7
85°	6.5	7.8	9.1	26.0	16.9	18.2	19.5	26.0	22.1	27.3	19.5
87.5°	0.0	0.0	0.0	1.3	1.3	2.6	1.3	2.6	3.9	3.9	3.9
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: P799896

CATALOG NUMBER: ARCH2-60-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6
2.5°	1042.1	1027.8	1007.1	973.3	938.3	918.8	894.2	890.3	864.3	861.7	851.3
5°	1048.6	1018.8	965.6	900.7	837.1	787.8	751.4	732.0	694.3	694.3	683.9
7.5°	1053.8	1007.1	921.4	825.4	738.4	672.3	622.9	602.2	568.4	565.8	558.0
10°	1055.1	992.8	873.4	748.8	642.4	574.9	526.9	503.5	473.7	471.1	465.9
12.5°	1065.5	985.0	830.6	682.6	573.6	500.9	454.2	434.8	411.4	408.8	403.6
15°	1082.4	985.0	794.2	626.8	512.6	445.1	404.9	386.7	369.9	367.3	364.7
17.5°	1099.2	982.4	757.9	574.9	462.0	401.0	366.0	351.7	338.7	337.4	334.8
20°	1114.8	981.1	721.6	530.8	423.1	364.7	337.4	324.4	314.1	314.1	312.8
22.5°	1130.4	978.5	686.5	489.3	389.3	337.4	314.1	299.8	292.0	292.0	290.7
25°	1153.7	978.5	654.1	454.2	362.1	316.7	293.3	282.9	276.4	275.1	275.1
27.5°	1181.0	986.3	625.5	423.1	338.7	295.9	277.7	267.3	259.6	257.0	258.3
30°	1210.8	992.8	599.6	395.8	316.7	280.3	260.9	250.5	242.7	240.1	241.4
32.5°	1240.7	1000.6	576.2	371.2	294.6	266.0	246.6	234.9	227.1	225.8	225.8
35°	1273.1	1008.4	552.9	350.4	276.4	251.8	233.6	220.6	215.4	212.8	214.1
37.5°	1305.6	1021.4	530.8	330.9	263.5	238.8	221.9	208.9	205.0	203.8	203.8
40°	1344.5	1040.8	521.7	318.0	251.8	227.1	212.8	199.9	196.0	196.0	196.0
42.5°	1376.9	1056.4	513.9	303.7	242.7	216.7	203.8	193.4	190.8	189.5	190.8
45°	1409.4	1070.7	503.5	290.7	231.0	206.3	196.0	185.6	183.0	183.0	183.0
47.5°	1441.8	1078.5	489.3	277.7	220.6	197.3	188.2	179.1	176.5	176.5	176.5
50°	1467.8	1084.9	468.5	263.5	208.9	189.5	180.4	171.3	168.7	168.7	168.7
52.5°	1493.7	1086.2	446.4	246.6	197.3	180.4	172.6	163.5	160.9	159.6	159.6
55°	1517.1	1084.9	420.5	227.1	184.3	170.0	163.5	155.7	150.5	145.4	147.9
57.5°	1534.0	1083.6	390.6	207.6	171.3	159.6	157.0	146.6	136.3	123.3	125.9
60°	1527.5	1069.4	358.2	183.0	157.0	149.2	149.2	135.0	116.8	110.3	111.6
62.5°	1486.0	1029.1	324.4	157.0	142.8	138.9	137.6	122.0	107.7	101.2	102.5
65°	1361.4	927.9	275.1	133.7	128.5	127.2	127.2	112.9	99.9	92.1	93.4
67.5°	1171.9	778.7	224.5	112.9	114.2	116.8	116.8	103.8	90.8	83.1	84.4
70°	939.6	608.7	179.1	97.3	98.6	102.5	105.1	93.4	81.8	74.0	74.0
72.5°	707.3	462.0	144.1	81.8	88.2	88.2	92.1	83.1	71.4	63.6	64.9
75°	512.6	330.9	114.2	68.8	76.6	75.3	75.3	70.1	61.0	55.8	55.8
77.5°	242.7	173.9	90.8	49.3	59.7	58.4	59.7	55.8	51.9	46.7	48.0
80°	119.4	85.7	58.4	35.0	41.5	42.8	46.7	44.1	42.8	38.9	38.9
82.5°	57.1	33.7	27.3	24.7	28.6	29.8	32.4	32.4	33.7	31.1	31.1
85°	15.6	9.1	11.7	15.6	18.2	19.5	22.1	23.4	23.4	22.1	23.4
87.5°	3.9	3.9	5.2	7.8	9.1	10.4	11.7	11.7	5.2	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)