

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: P841262

Luminaire Tested: **ARCH4-150-750-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-150-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

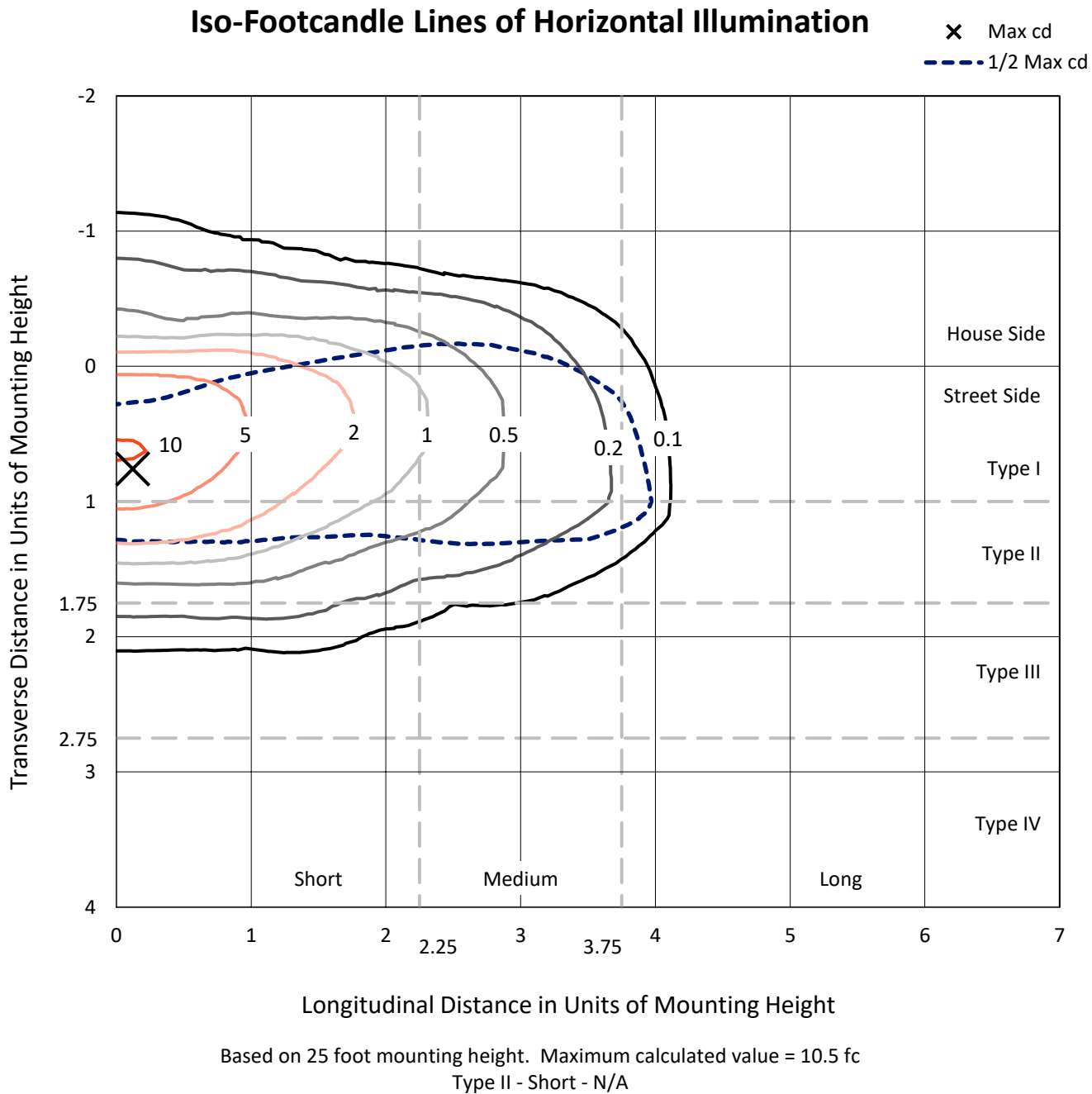
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18021 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 150.8
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

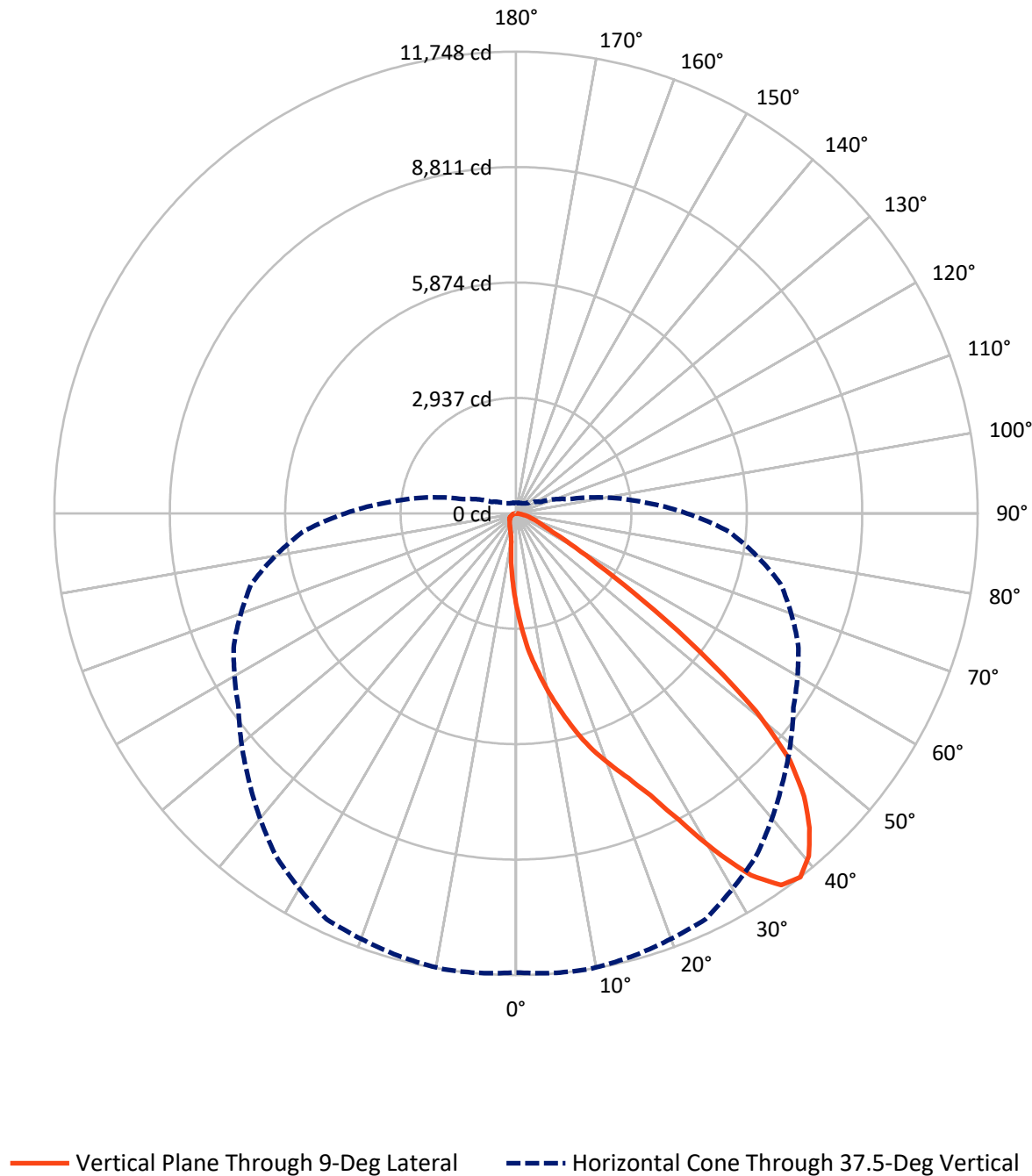


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Luminous Intensity Polar Plot



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CATALOG NUMBER: ARCH4-150-750-U-T2R-HSS

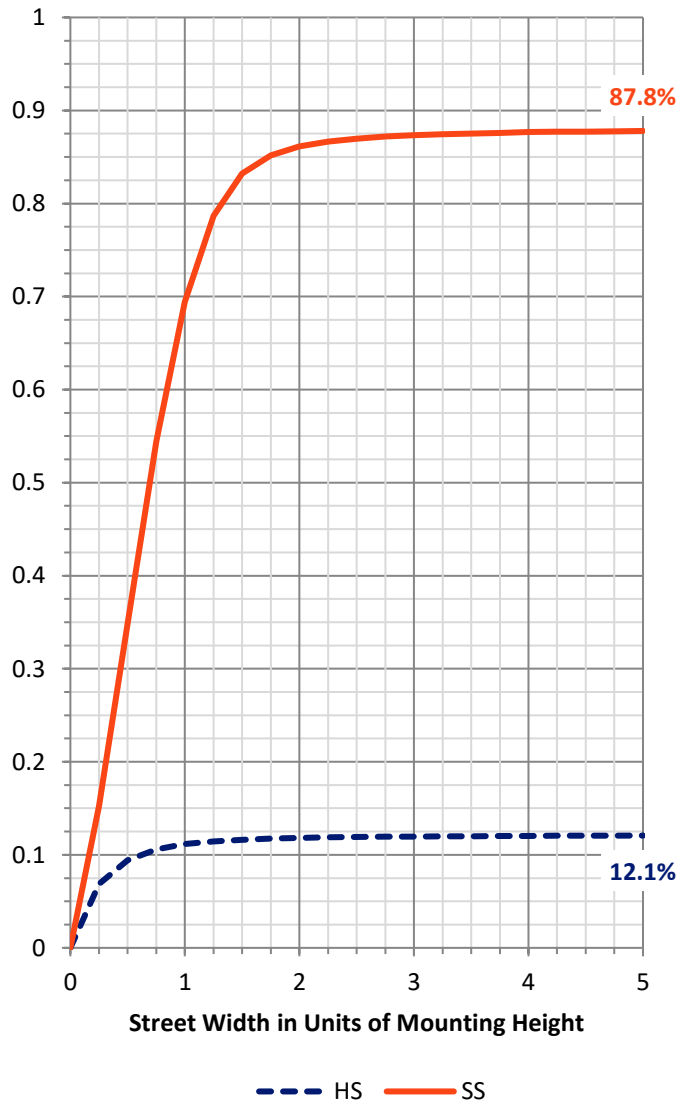
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2191.7	0.0	2191.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	15829.3	0.0	15829.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	18021.0	0.0	18021.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.4	1.3
10°-20°	832.2	4.6
20°-30°	1710.0	9.5
30°-40°	3022.6	16.8
40°-50°	4015.3	22.3
50°-60°	3808.2	21.1
60°-70°	2905.4	16.1
70°-80°	1408.5	7.8
80°-90°	79.3	0.4
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°	18021.0	100.0
0°-180°	18021.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841262

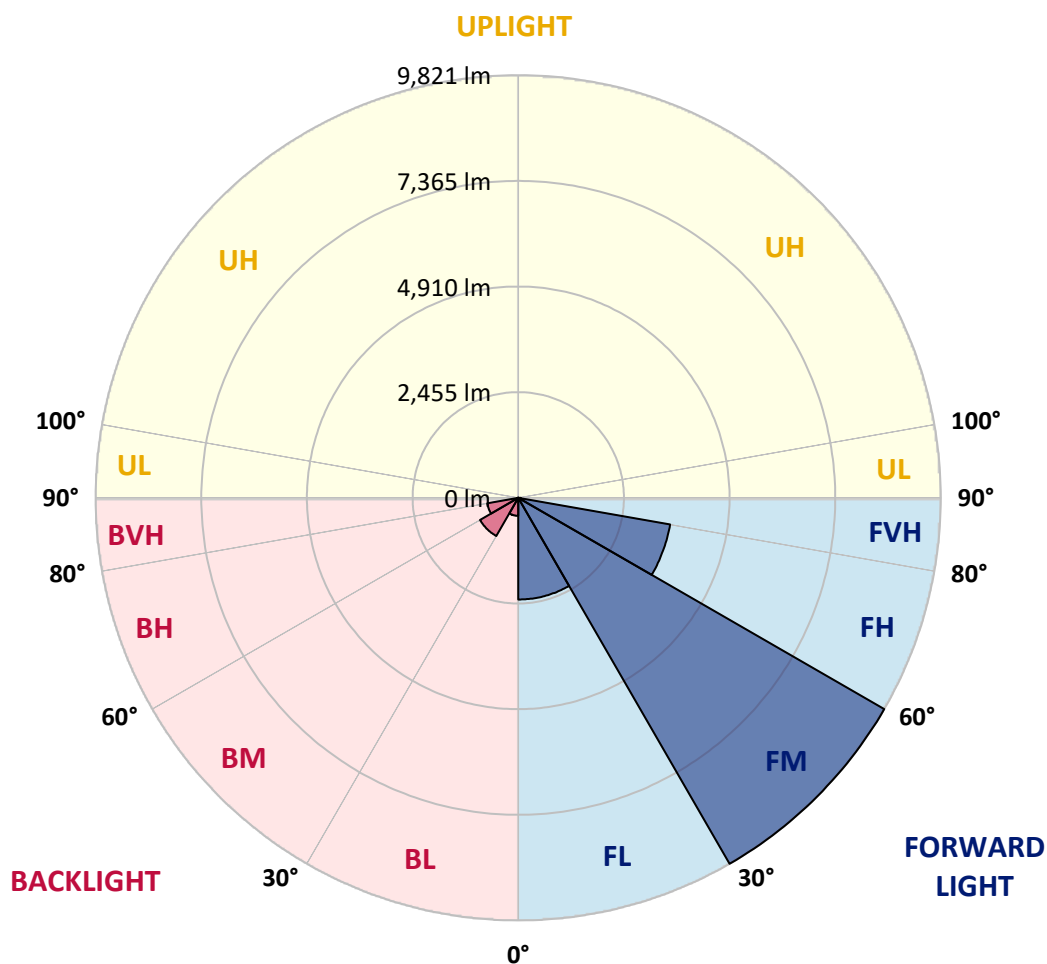
CATALOG NUMBER: ARCH4-150-750-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2363.5	13.1			
FM	(30°-60°)	9820.6	54.5			
FH	(60°-80°)	3582.5	19.9			G2/5000
FVH	(80°-90°)	62.8	0.3			G1/100
BL	(0°-30°)	418.3	2.3	B1/500		
BM	(30°-60°)	1025.5	5.7	B2/2500		
BH	(60°-80°)	731.4	4.1	B2/1000		G2/1000
BVH	(80°-90°)	16.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P841262

CATALOG NUMBER: ARCH4-150-750-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2
2.5°	2951.8	2900.0	2959.2	2951.8	2900.0	2866.7	2763.2	2729.9	2607.8	2519.0	2441.3
5°	3558.4	3506.7	3558.4	3543.6	3469.7	3388.3	3218.1	3107.2	2888.9	2696.6	2522.7
7.5°	4061.5	4061.5	4083.7	4087.4	3998.6	3872.9	3662.0	3495.6	3188.5	2892.6	2615.2
10°	4605.3	4609.0	4657.0	4623.8	4505.4	4335.2	4068.9	3858.1	3488.2	3099.8	2704.0
12.5°	5186.0	5189.7	5204.5	5189.7	5049.1	4830.9	4509.1	4231.7	3806.3	3336.5	2826.0
15°	5766.7	5770.4	5788.9	5763.0	5607.7	5352.5	4986.3	4645.9	4142.9	3602.8	2974.0
17.5°	6310.5	6317.9	6332.7	6299.4	6136.6	5833.3	5459.7	5049.1	4501.7	3887.7	3140.5
20°	6798.8	6806.2	6817.3	6772.9	6610.1	6306.8	5903.6	5474.5	4867.9	4179.9	3321.7
22.5°	7290.7	7298.1	7316.6	7257.4	7076.2	6728.5	6332.7	5888.8	5256.3	4501.7	3532.5
25°	7919.6	7927.0	7941.8	7856.7	7608.8	7202.0	6784.0	6329.0	5678.0	4864.2	3791.5
27.5°	8840.6	8833.2	8833.2	8677.9	8252.5	7723.5	7238.9	6776.6	6132.9	5252.6	4076.3
30°	9979.9	9961.4	9950.3	9739.5	9132.8	8311.7	7705.0	7194.6	6569.4	5663.2	4383.3
32.5°	11000.8	11000.8	10978.6	10756.7	10113.1	9103.2	8200.7	7601.5	6991.1	6077.5	4701.4
35°	11603.8	11629.7	11618.6	11452.1	10982.3	9954.0	8870.2	8089.7	7435.0	6510.2	5082.4
37.5°	11685.2	11736.9	11748.0	11648.2	11400.3	10649.4	9613.7	8618.7	7923.3	6976.3	5452.3
40°	11355.9	11466.9	11466.9	11452.1	11363.3	10978.6	10238.8	9232.7	8426.3	7460.9	5825.9
42.5°	10849.2	10963.8	10949.0	11004.5	10982.3	10901.0	10590.2	9806.1	8929.4	7960.3	6166.2
45°	10187.1	10305.4	10275.8	10375.7	10420.1	10508.9	10553.3	10205.6	9425.1	8504.0	6547.2
47.5°	9125.4	9325.2	9369.6	9547.1	9732.1	10009.5	10220.3	10349.8	9887.4	9088.5	6961.5
50°	7557.1	7838.2	7927.0	8300.6	8807.3	9380.7	9721.0	10172.3	10212.9	9687.7	7409.1
52.5°	5411.6	5737.2	5874.0	6488.1	7531.2	8529.9	9143.9	9780.2	10338.7	10261.0	7893.7
55°	3499.3	3776.7	3909.8	4486.9	5874.0	7442.4	8463.3	9273.4	10268.4	10786.3	8448.5
57.5°	2156.5	2315.6	2404.4	2900.0	4176.2	6047.9	7571.9	8807.3	10053.9	11241.3	9025.6
60°	1453.7	1546.2	1590.6	1823.6	2837.1	4520.2	6347.5	8319.1	9772.8	11548.3	9550.8
62.5°	965.4	995.0	1039.4	1183.7	1871.7	3173.7	4875.3	7446.1	9561.9	11566.8	9939.2
65°	747.2	762.0	780.5	843.4	1154.1	2219.4	3429.0	6033.1	9247.5	11174.7	10061.3
67.5°	588.1	602.9	625.1	658.4	836.0	1505.5	2334.1	4420.3	8603.9	10560.7	9861.5
70°	462.4	473.5	488.3	517.9	651.0	1091.2	1542.5	2937.0	7305.5	9976.2	9232.7
72.5°	366.2	377.3	392.1	421.7	529.0	799.0	1057.9	1831.0	5633.6	9262.3	8023.1
75°	288.5	295.9	307.0	336.6	425.4	621.4	717.6	1094.9	3828.5	7956.6	6251.3
77.5°	144.3	177.6	203.4	233.0	310.7	429.1	477.2	606.6	1616.5	4083.7	2981.4
80°	85.1	103.6	111.0	129.5	203.4	258.9	258.9	244.1	510.5	1568.4	1217.0
82.5°	48.1	66.6	70.3	74.0	122.1	148.0	118.4	88.8	103.6	525.3	355.1
85°	14.8	22.2	25.9	29.6	40.7	44.4	40.7	37.0	29.6	51.8	33.3
87.5°	0.0	0.0	0.0	0.0	3.7	7.4	7.4	7.4	11.1	11.1	11.1
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: P841262

CATALOG NUMBER: ARCH4-150-750-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2
2.5°	2397.0	2348.9	2256.4	2171.3	2089.9	2030.8	1975.3	1923.5	1886.5	1856.9	1853.2
5°	2430.2	2334.1	2156.5	1990.1	1838.4	1712.6	1605.4	1520.3	1457.4	1413.0	1409.3
7.5°	2474.6	2326.7	2056.6	1808.8	1583.2	1401.9	1246.6	1131.9	1050.5	1017.2	991.3
10°	2511.6	2319.3	1956.8	1627.6	1331.6	1102.3	917.4	802.7	743.5	721.3	710.2
12.5°	2574.5	2326.7	1871.7	1461.1	1113.4	843.4	702.8	639.9	614.0	595.5	591.8
15°	2667.0	2360.0	1790.3	1298.4	891.5	680.6	599.2	558.5	532.7	529.0	525.3
17.5°	2759.5	2389.6	1716.3	1131.9	739.8	591.8	536.4	503.1	484.6	480.9	480.9
20°	2866.7	2426.5	1635.0	972.8	632.5	532.7	488.3	462.4	440.2	436.5	436.5
22.5°	2992.5	2478.3	1557.3	832.3	562.2	488.3	451.3	421.7	403.2	399.5	399.5
25°	3162.6	2556.0	1494.4	728.7	514.2	451.3	418.0	392.1	377.3	369.9	369.9
27.5°	3351.3	2663.3	1450.0	665.8	480.9	421.7	388.4	366.2	351.4	344.0	344.0
30°	3562.1	2781.7	1420.4	639.9	462.4	395.8	366.2	344.0	325.5	321.8	321.8
32.5°	3795.2	2918.5	1401.9	643.6	458.7	377.3	344.0	321.8	307.0	299.6	299.6
35°	4054.1	3070.2	1390.8	665.8	466.1	362.5	325.5	303.3	288.5	281.1	281.1
37.5°	4342.6	3247.7	1390.8	688.0	484.6	358.8	307.0	284.8	273.7	266.3	266.3
40°	4612.7	3436.4	1405.6	713.9	503.1	358.8	292.2	273.7	258.9	251.5	251.5
42.5°	4823.5	3543.6	1416.7	739.8	514.2	355.1	277.4	258.9	247.8	240.4	240.4
45°	5063.9	3658.3	1394.5	750.9	514.2	347.7	266.3	247.8	236.7	229.3	229.3
47.5°	5330.3	3798.9	1390.8	758.3	503.1	332.9	255.2	236.7	229.3	221.9	221.9
50°	5600.3	3954.2	1398.2	754.6	488.3	310.7	240.4	229.3	218.2	210.8	210.8
52.5°	5907.3	4117.0	1413.0	747.2	455.0	284.8	229.3	218.2	207.1	199.7	196.0
55°	6247.6	4294.5	1442.6	732.4	410.6	258.9	218.2	207.1	192.3	185.0	181.3
57.5°	6639.7	4512.8	1475.9	702.8	362.5	236.7	207.1	192.3	170.2	159.1	155.4
60°	7013.3	4760.6	1512.9	632.5	314.4	214.5	196.0	173.9	151.7	144.3	140.6
62.5°	7364.7	5004.8	1531.4	506.8	266.3	196.0	185.0	159.1	136.9	129.5	125.8
65°	7590.4	5271.1	1490.7	344.0	218.2	181.3	170.2	148.0	125.8	114.7	114.7
67.5°	7605.2	5396.8	1350.1	225.6	177.6	162.8	155.4	133.2	111.0	103.6	99.9
70°	7231.6	5208.2	1032.0	177.6	148.0	140.6	140.6	118.4	96.2	88.8	85.1
72.5°	6373.4	4612.7	658.4	144.3	125.8	118.4	118.4	99.9	85.1	74.0	70.3
75°	5030.6	3558.4	351.4	118.4	103.6	99.9	92.5	81.4	70.3	62.9	59.2
77.5°	2311.9	1568.4	162.8	85.1	77.7	77.7	70.3	59.2	55.5	48.1	48.1
80°	913.7	532.7	81.4	55.5	51.8	51.8	51.8	40.7	40.7	33.3	29.6
82.5°	251.5	111.0	40.7	33.3	33.3	33.3	29.6	25.9	25.9	22.2	22.2
85°	25.9	18.5	18.5	18.5	18.5	14.8	14.8	11.1	7.4	7.4	7.4
87.5°	11.1	11.1	11.1	11.1	11.1	7.4	3.7	0.0	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)