

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: P841842

Luminaire Tested: **ARCH4-230-750-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-230-750-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24664 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 231.2
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



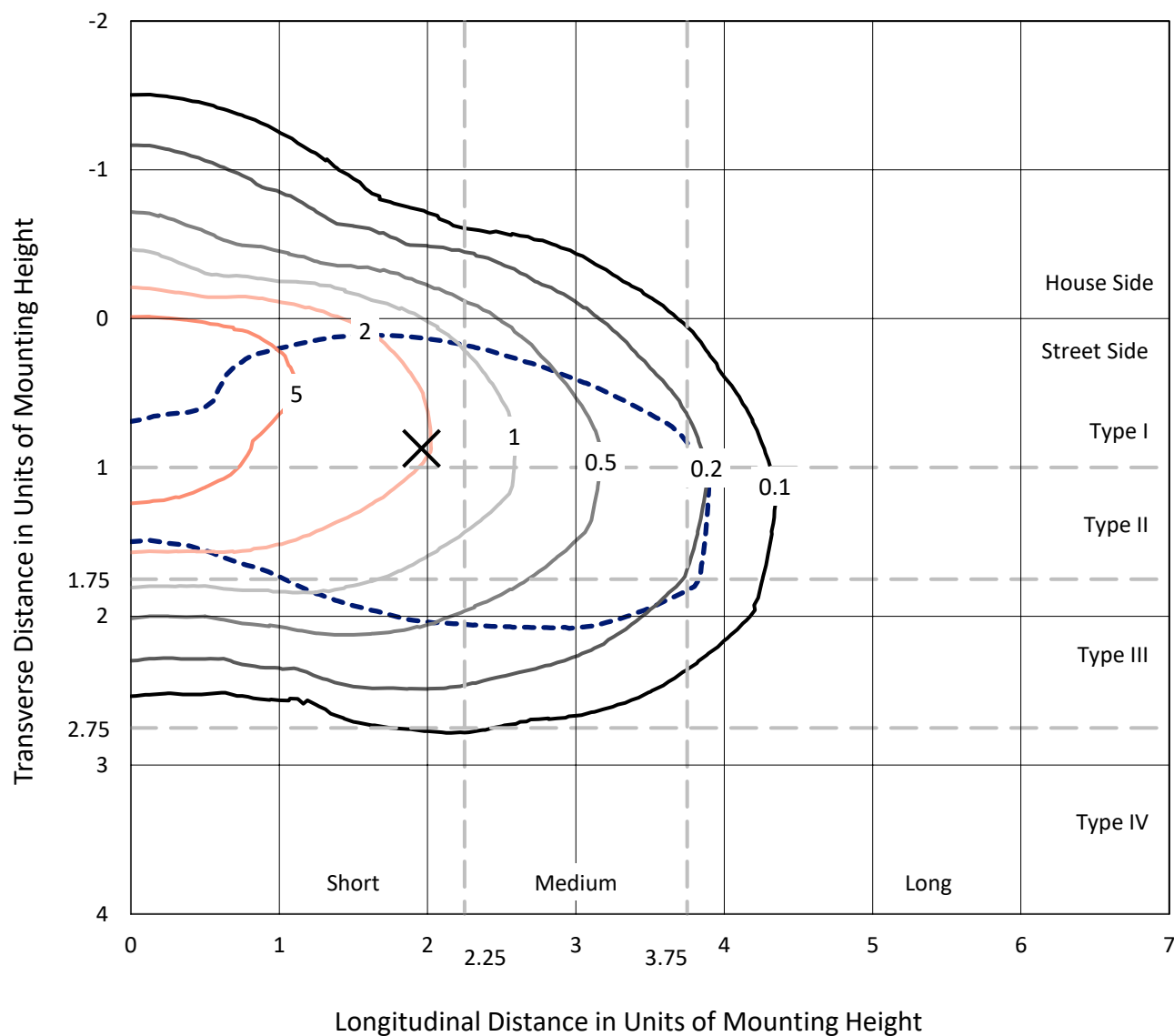
REPORT NUMBER: P841842

CATALOG NUMBER: ARCH4-230-750-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

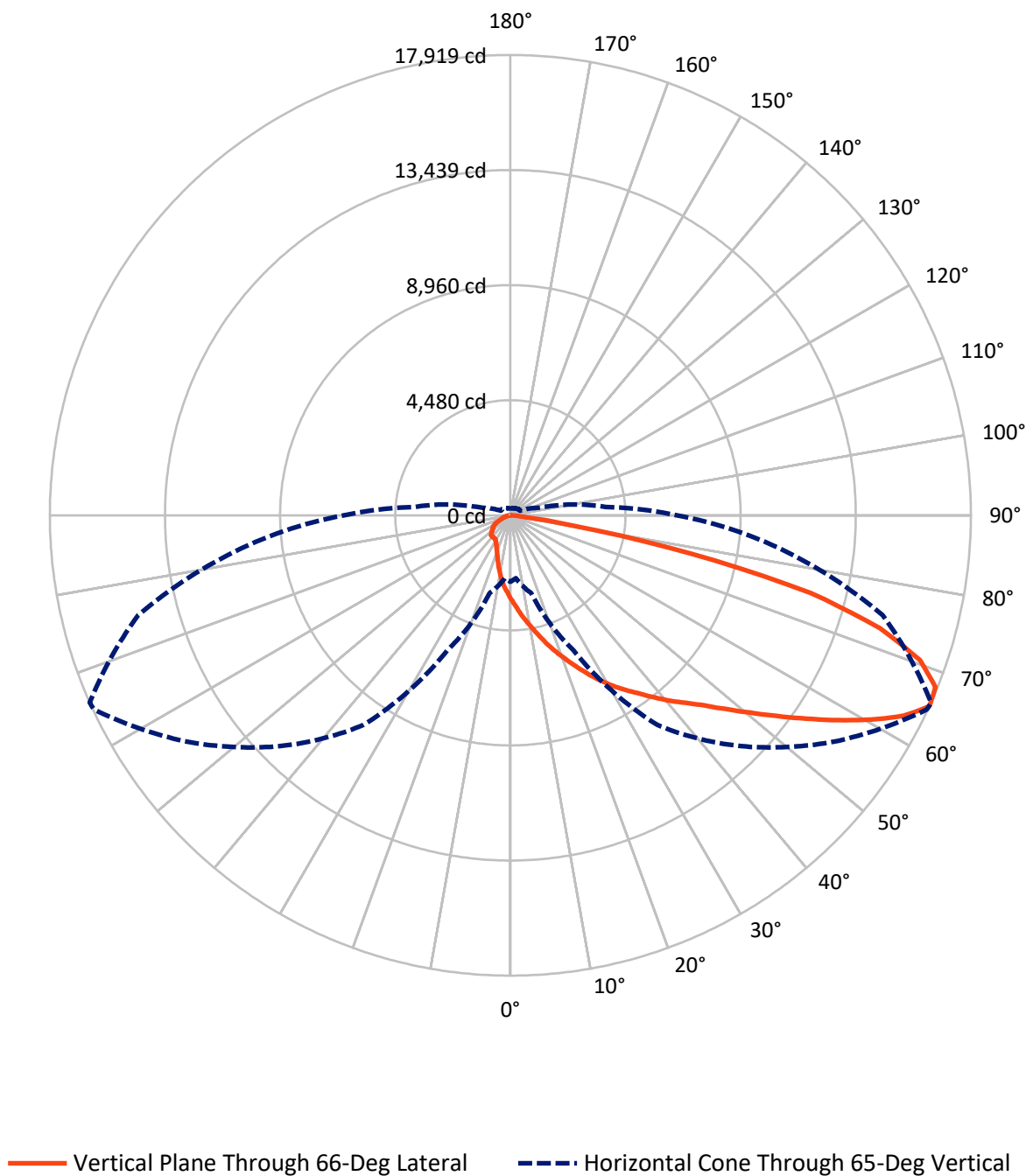
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
Type III - Short - N/A

REPORT NUMBER: P841842
CATALOG NUMBER: ARCH4-230-750-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P841842

CATALOG NUMBER: ARCH4-230-750-U-T3-HSS

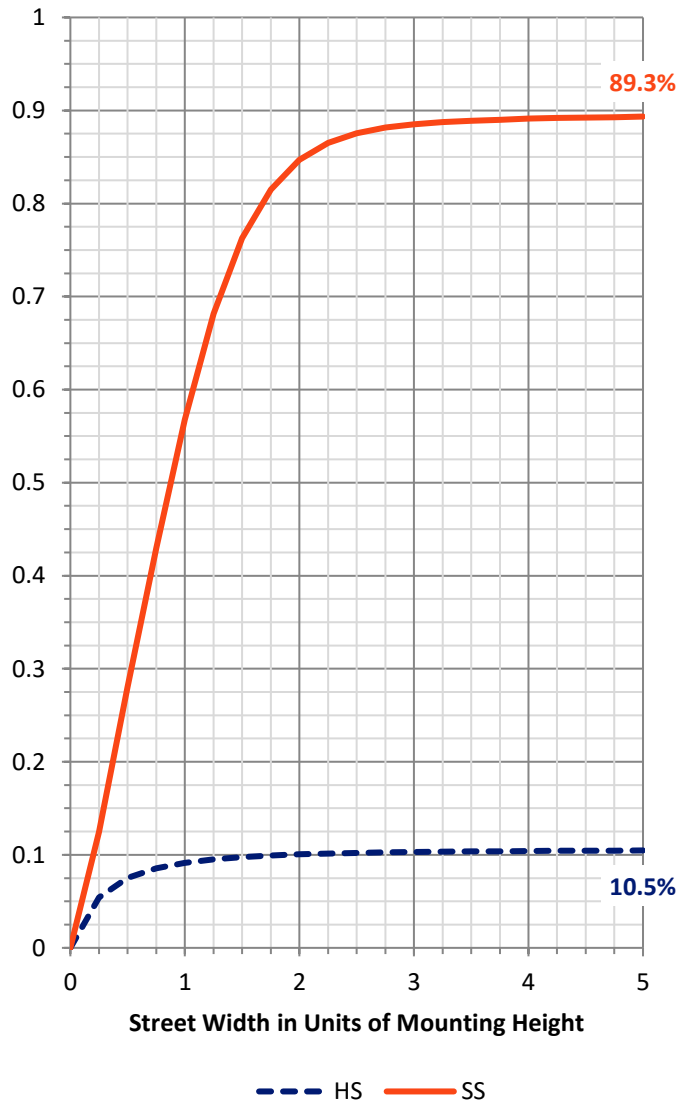
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2608.8	0.0	2608.8
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	22055.2	0.0	22055.2
	% Fixture	89.4	0.0	89.4
Total	Lumens	24664.0	0.0	24664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.2	1.3
10°-20°	1050.0	4.3
20°-30°	1899.9	7.7
30°-40°	2970.9	12.0
40°-50°	4506.8	18.3
50°-60°	5726.0	23.2
60°-70°	5350.4	21.7
70°-80°	2659.1	10.8
80°-90°	178.7	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°	24664.0	100.0
0°-180°	24664.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841842

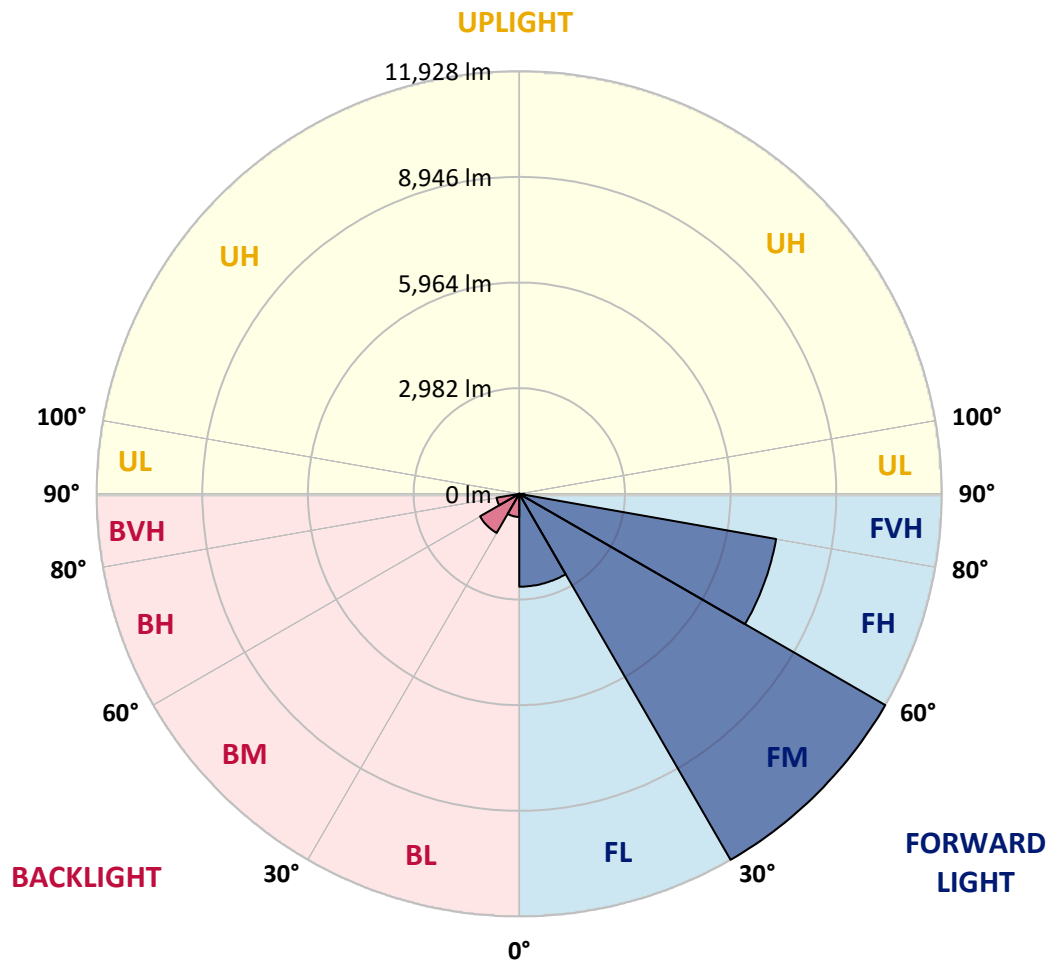
CATALOG NUMBER: ARCH4-230-750-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2620.6	10.6			
FM	(30°-60°)	11927.8	48.4			
FH	(60°-80°)	7359.8	29.8			G3/7500
FVH	(80°-90°)	147.0	0.6			G2/225
BL	(0°-30°)	651.5	2.6	B2/1000		
BM	(30°-60°)	1276.0	5.2	B2/2500		
BH	(60°-80°)	649.7	2.6	B2/1000		G2/1000
BVH	(80°-90°)	31.6	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-G3

Type III Short



REPORT NUMBER: P841842

CATALOG NUMBER: ARCH4-230-750-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1
2.5°	3812.5	3843.5	3859.0	3864.2	3745.2	3693.5	3641.8	3522.8	3496.9	3429.7	3341.7
5°	4485.0	4526.4	4516.0	4495.3	4350.5	4184.9	4050.4	3828.0	3791.8	3631.4	3434.9
7.5°	5147.1	5183.3	5173.0	5095.4	4935.0	4702.2	4479.8	4153.9	4102.2	3843.5	3528.0
10°	5700.6	5731.7	5726.5	5648.9	5457.5	5173.0	4904.0	4469.4	4407.4	4040.1	3605.6
12.5°	6155.8	6197.2	6192.0	6140.3	5969.6	5659.2	5354.0	4831.6	4754.0	4278.0	3714.2
15°	6512.8	6564.5	6564.5	6543.8	6424.8	6166.2	5819.6	5229.9	5136.8	4552.2	3848.7
17.5°	6730.0	6771.4	6807.6	6843.8	6761.1	6564.5	6248.9	5628.2	5529.9	4821.2	3988.4
20°	6843.8	6885.2	6911.1	6988.7	7004.2	6905.9	6657.6	6021.3	5917.9	5126.4	4148.7
22.5°	7030.1	7066.3	7071.5	7138.7	7169.7	7195.6	7040.4	6409.3	6326.5	5462.7	4329.8
25°	7340.4	7381.8	7366.3	7397.3	7402.5	7433.6	7418.0	6854.2	6771.4	5845.5	4547.0
27.5°	7738.8	7790.5	7780.1	7749.1	7702.6	7676.7	7743.9	7304.2	7226.6	6228.3	4769.5
30°	8168.1	8230.2	8214.7	8152.6	8028.5	7919.8	8012.9	7728.4	7656.0	6621.4	5017.8
32.5°	8602.7	8675.1	8669.9	8566.4	8354.3	8168.1	8307.8	8126.7	8075.0	7045.6	5286.8
35°	8887.2	8980.3	8969.9	8907.9	8633.7	8473.3	8644.0	8535.4	8499.2	7562.9	5674.7
37.5°	9347.6	9445.8	9357.9	9202.7	8887.2	8804.4	9011.3	8995.8	8969.9	8111.2	6083.4
40°	10464.9	10609.8	10377.0	9740.7	9223.4	9151.0	9445.8	9507.9	9482.1	8654.4	6450.7
42.5°	11634.0	11851.3	11489.2	10609.8	9833.8	9570.0	9921.8	10009.7	9978.7	9119.9	6781.8
45°	12342.7	12435.8	12073.7	11390.9	10915.0	10076.9	10428.7	10573.6	10547.7	9678.6	7205.9
47.5°	12922.1	12885.9	12472.0	12011.6	12099.6	10790.8	11002.9	11287.4	11266.7	10294.2	7671.5
50°	13046.2	12963.5	12797.9	12508.2	12741.0	11515.0	11608.1	12099.6	12078.9	10977.0	8142.3
52.5°	12172.0	12063.4	12513.4	12756.5	12679.0	12042.7	12275.5	12989.3	12979.0	11716.8	8592.3
55°	9989.0	9901.1	11111.5	12368.6	12611.7	12415.1	13015.2	13915.3	13972.2	12503.1	9001.0
57.5°	7857.7	7764.6	8954.4	11396.1	12363.4	12756.5	13879.1	14975.8	15048.2	13356.6	9388.9
60°	6264.5	6124.8	7035.2	9864.9	11897.8	13020.4	14711.9	16139.7	16150.0	14137.7	9626.9
62.5°	4257.4	4102.2	5110.9	7925.0	11116.7	13061.8	15353.4	17143.2	17184.6	14722.3	9668.3
65°	2586.5	2457.2	3140.0	5788.6	9963.1	12710.0	15363.7	17883.0	17919.2	14991.3	9420.0
67.5°	1500.2	1448.4	1795.0	3605.6	8049.1	11763.3	14717.1	17769.2	17836.4	14877.5	8856.1
70°	874.2	869.1	998.4	1784.7	5679.9	9885.5	13273.8	16812.2	16910.4	14282.6	7992.2
72.5°	641.4	651.8	703.5	957.0	3290.0	7118.0	11240.9	14887.8	15037.8	13118.7	6761.1
75°	507.0	512.1	558.7	651.8	1727.8	4024.6	8421.6	11949.6	12068.5	11044.3	5281.6
77.5°	377.6	388.0	424.2	460.4	801.8	1846.8	4738.4	7361.1	7164.6	6062.7	2550.3
80°	274.2	300.0	315.6	331.1	424.2	713.9	1422.6	2565.8	2545.1	2648.6	1205.3
82.5°	175.9	196.6	212.1	222.4	253.5	341.4	424.2	574.2	620.8	1029.4	481.1
85°	77.6	87.9	98.3	119.0	108.6	119.0	175.9	113.8	98.3	155.2	87.9
87.5°	0.0	0.0	15.5	25.9	20.7	10.3	31.0	20.7	15.5	15.5	15.5
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: P841842

CATALOG NUMBER: ARCH4-230-750-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1
2.5°	3295.2	3238.3	3119.3	3005.5	2938.2	2850.3	2772.7	2700.3	2695.1	2674.4	2638.2
5°	3336.6	3227.9	3005.5	2793.4	2633.0	2462.3	2317.5	2203.7	2162.3	2131.3	2089.9
7.5°	3378.0	3207.2	2876.2	2565.8	2312.3	2074.4	1903.7	1748.5	1701.9	1660.5	1634.7
10°	3393.5	3171.0	2726.2	2312.3	1981.2	1727.8	1546.7	1432.9	1391.5	1370.8	1355.3
12.5°	3440.0	3150.3	2586.5	2074.4	1691.6	1458.8	1329.5	1262.2	1246.7	1231.2	1215.6
15°	3502.1	3150.3	2446.8	1841.6	1464.0	1277.7	1200.1	1153.6	1143.2	1138.1	1127.7
17.5°	3569.4	3150.3	2312.3	1645.0	1298.4	1158.7	1101.8	1076.0	1070.8	1065.6	1060.5
20°	3662.5	3155.5	2167.5	1474.3	1179.4	1070.8	1024.2	993.2	988.0	982.9	982.9
22.5°	3755.6	3165.9	2027.8	1345.0	1101.8	1003.6	946.7	915.6	905.3	905.3	905.3
25°	3874.6	3196.9	1898.5	1236.3	1034.6	941.5	869.1	843.2	838.0	838.0	832.8
27.5°	4014.2	3233.1	1784.7	1153.6	967.3	869.1	796.6	770.8	760.4	760.4	755.3
30°	4164.2	3269.3	1691.6	1091.5	900.1	796.6	729.4	698.4	688.0	693.2	688.0
32.5°	4329.8	3321.0	1619.1	1050.1	838.0	734.6	672.5	636.3	631.1	631.1	625.9
35°	4609.1	3465.9	1608.8	1029.4	786.3	688.0	625.9	589.7	584.5	584.5	579.4
37.5°	4909.2	3631.4	1655.4	1019.1	744.9	646.6	589.7	553.5	548.3	548.3	548.3
40°	5162.6	3755.6	1707.1	1019.1	719.0	610.4	558.7	527.6	527.6	527.6	527.6
42.5°	5333.3	3765.9	1696.7	1019.1	698.4	584.5	538.0	507.0	507.0	512.1	507.0
45°	5586.8	3817.7	1655.4	1003.6	682.8	563.9	517.3	491.4	486.3	491.4	491.4
47.5°	5886.8	3910.8	1614.0	941.5	677.7	543.2	501.8	470.7	465.6	470.7	465.6
50°	6171.4	3993.5	1593.3	858.7	667.3	522.5	481.1	450.0	444.9	450.0	444.9
52.5°	6409.3	4029.7	1557.1	801.8	641.4	501.8	460.4	429.4	419.0	424.2	424.2
55°	6600.7	4019.4	1505.3	755.3	594.9	481.1	434.5	408.7	393.1	393.1	388.0
57.5°	6776.6	4024.6	1458.8	708.7	543.2	450.0	413.8	382.8	362.1	356.9	351.8
60°	6843.8	3998.7	1376.0	646.6	491.4	424.2	388.0	351.8	331.1	325.9	320.7
62.5°	6750.7	3905.6	1267.4	538.0	444.9	393.1	362.1	325.9	305.2	300.0	294.9
65°	6486.9	3729.7	1101.8	424.2	403.5	356.9	331.1	305.2	279.3	269.0	263.8
67.5°	6036.9	3476.2	894.9	341.4	356.9	325.9	310.4	279.3	248.3	238.0	232.8
70°	5395.4	3140.0	672.5	289.7	315.6	289.7	279.3	248.3	222.4	212.1	206.9
72.5°	4495.3	2596.8	470.7	248.3	274.2	253.5	243.1	222.4	196.6	181.1	181.1
75°	3398.6	1862.3	310.4	212.1	227.6	217.3	201.7	186.2	170.7	160.4	155.2
77.5°	1464.0	724.2	191.4	160.4	186.2	181.1	160.4	150.0	144.8	134.5	134.5
80°	631.1	294.9	119.0	119.0	134.5	129.3	124.2	113.8	113.8	108.6	103.5
82.5°	232.8	119.0	72.4	87.9	98.3	87.9	87.9	87.9	87.9	82.8	82.8
85°	56.9	36.2	36.2	51.7	56.9	51.7	56.9	51.7	51.7	51.7	46.6
87.5°	15.5	15.5	20.7	20.7	20.7	20.7	20.7	15.5	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)