

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: P841813

Luminaire Tested: **ARCH4-230-730-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-230-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24237 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

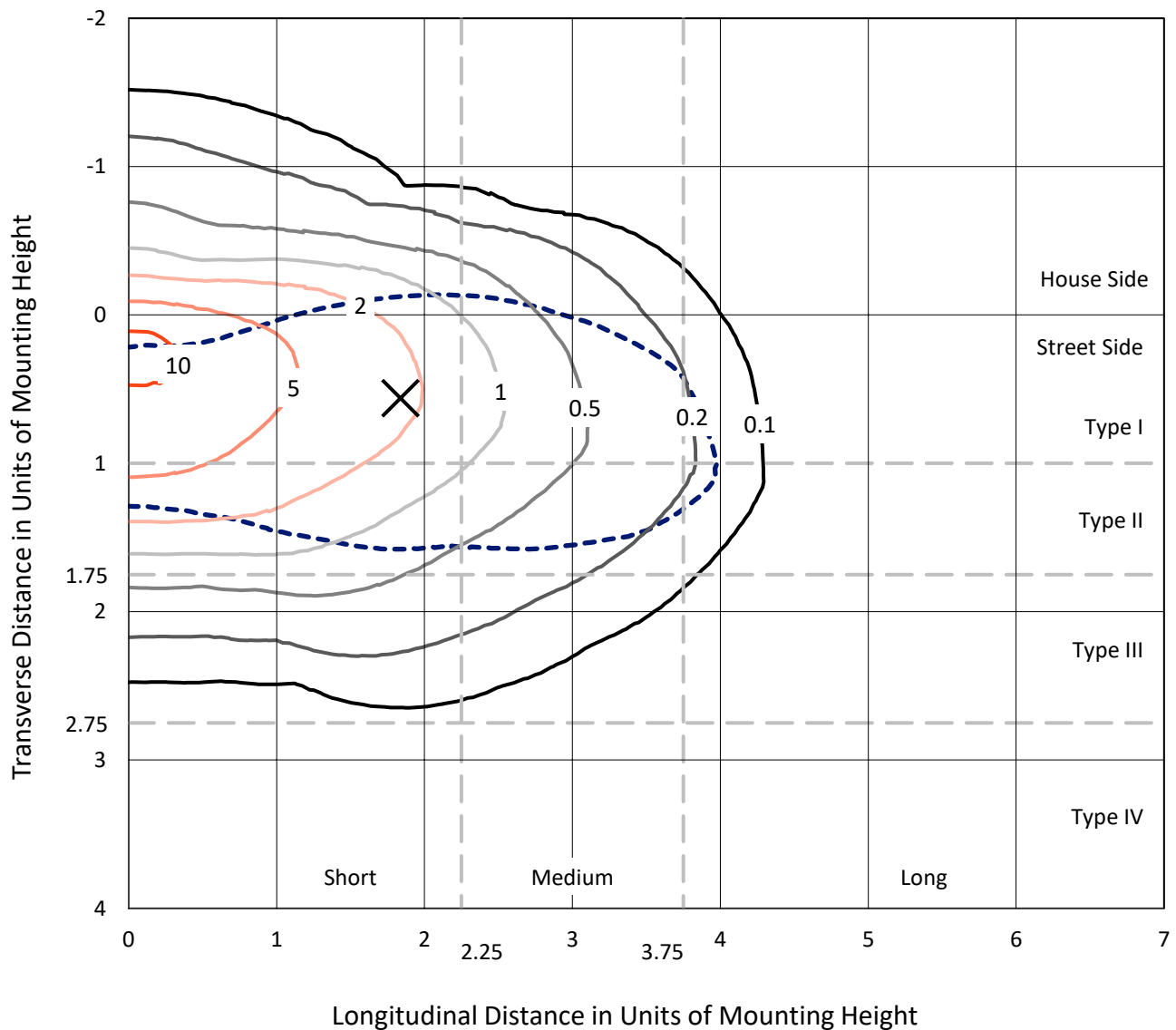
Input Watts (W): 231.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P841813
CATALOG NUMBER: ARCH4-230-730-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

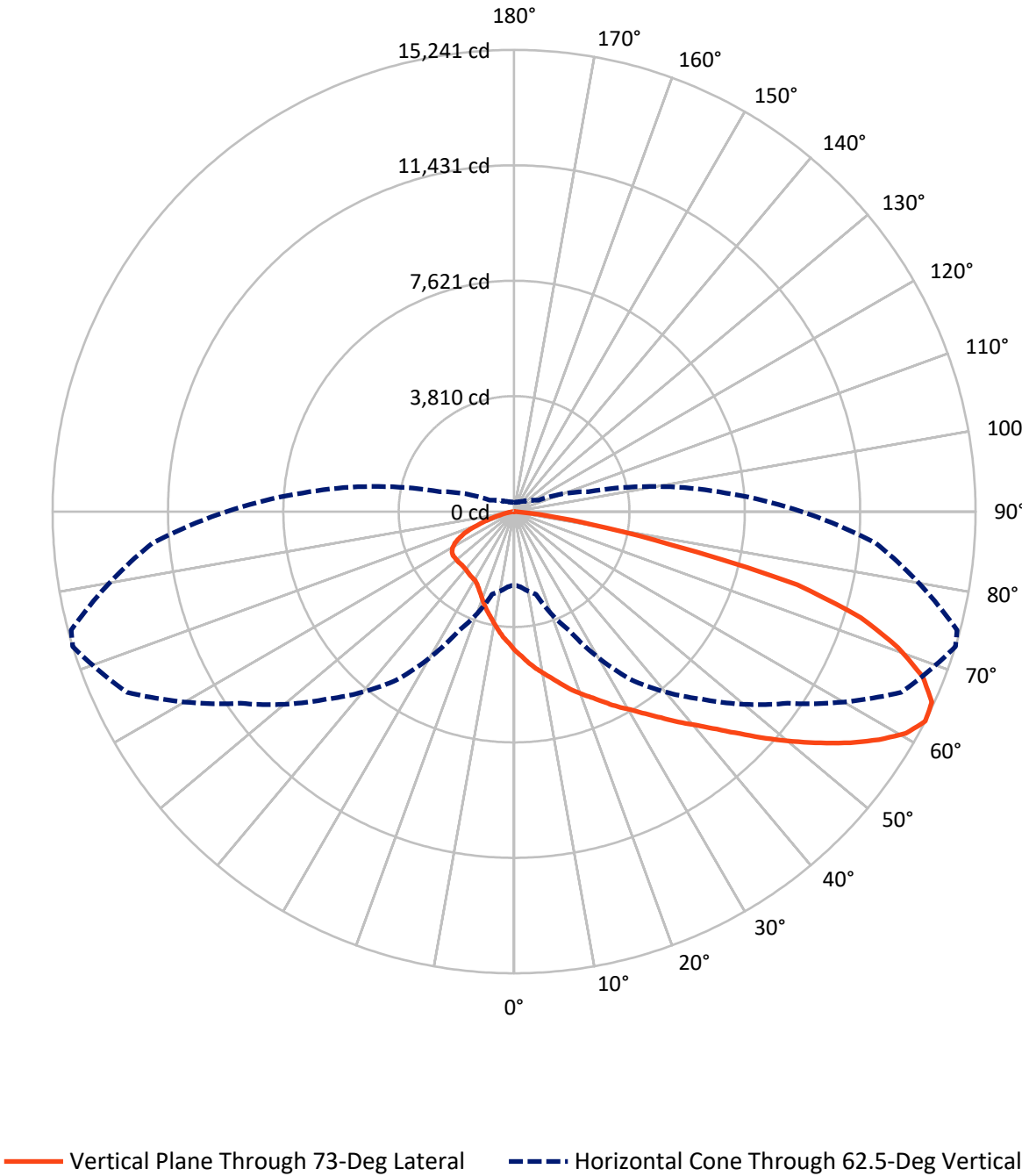
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
Type II - Short - N/A

REPORT NUMBER: P841813
CATALOG NUMBER: ARCH4-230-730-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P841813

CATALOG NUMBER: ARCH4-230-730-U-T2U-HSS

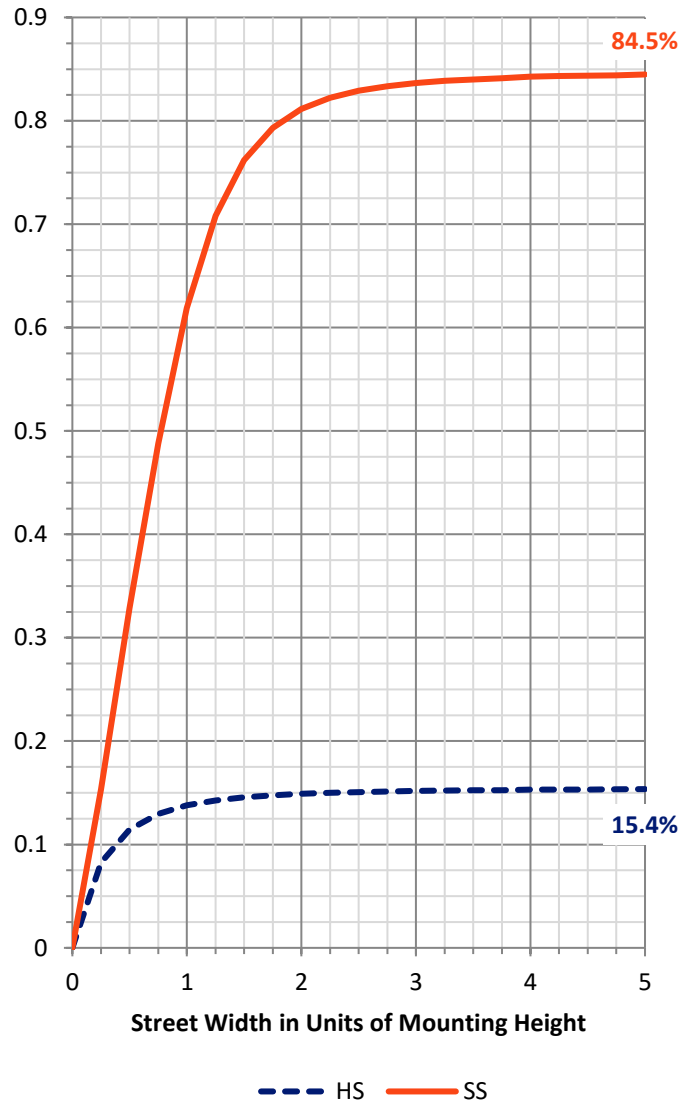
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3757.1	0.0	3757.1
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	20479.9	0.0	20479.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	24237.0	0.0	24237.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.4	1.8
10°-20°	1337.8	5.5
20°-30°	2226.9	9.2
30°-40°	3360.0	13.9
40°-50°	4696.4	19.4
50°-60°	5187.5	21.4
60°-70°	4519.0	18.6
70°-80°	2282.7	9.4
80°-90°	183.2	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°	24237.0	100.0
0°-180°	24237.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841813

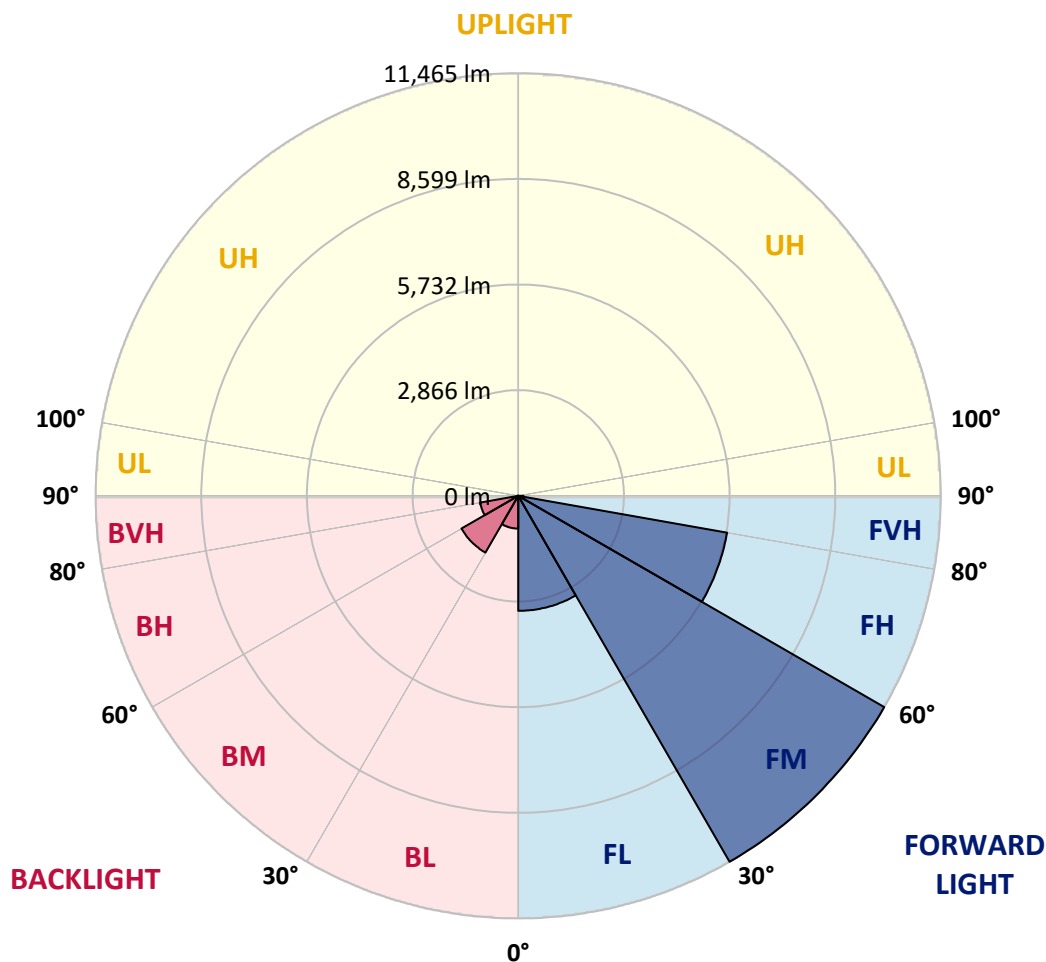
CATALOG NUMBER: ARCH4-230-730-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3120.0	12.9			
FM	(30°-60°)	11465.0	47.3			
FH	(60°-80°)	5753.1	23.7			G3/7500
FVH	(80°-90°)	141.8	0.6			G2/225
BL	(0°-30°)	888.0	3.7	B2/1000		
BM	(30°-60°)	1779.0	7.3	B2/2500		
BH	(60°-80°)	1048.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	41.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



REPORT NUMBER: P841813

CATALOG NUMBER: ARCH4-230-730-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	4589.3	4589.3	4589.3	4589.3	4589.3	4589.3	4589.3	4589.3	4589.3	4589.3	4589.3
2.5°	5223.1	5281.2	5249.5	5270.6	5165.0	5096.3	5017.1	4863.9	4779.4	4768.9	4668.5
5°	5988.8	6052.2	5999.4	5983.6	5798.7	5640.3	5460.7	5191.4	5011.8	4980.1	4758.3
7.5°	6754.6	6812.7	6749.3	6701.8	6453.6	6173.7	5909.6	5513.5	5233.6	5180.8	4832.3
10°	7293.3	7346.1	7298.6	7251.0	6992.3	6707.1	6332.1	5814.6	5434.3	5349.8	4879.8
12.5°	7699.9	7731.6	7710.5	7668.2	7425.3	7119.0	6759.9	6152.6	5661.4	5555.8	4953.7
15°	8032.6	8085.5	8059.0	8027.4	7795.0	7488.7	7145.4	6506.4	5925.5	5793.4	5064.6
17.5°	8254.5	8291.4	8296.7	8296.7	8090.7	7789.7	7457.0	6828.5	6189.5	6020.5	5170.3
20°	8354.8	8397.0	8423.4	8465.7	8296.7	8037.9	7699.9	7103.2	6437.7	6247.6	5270.6
22.5°	8402.3	8439.3	8507.9	8603.0	8465.7	8249.2	7937.6	7356.7	6685.9	6485.3	5386.8
25°	8439.3	8486.8	8587.2	8766.7	8671.7	8486.8	8217.5	7647.1	6981.7	6775.7	5555.8
27.5°	8539.6	8597.7	8692.8	8909.3	8793.1	8703.4	8513.2	7958.7	7293.3	7082.0	5761.7
30°	8888.2	8935.7	8930.4	9067.8	8925.2	8898.8	8766.7	8259.7	7594.3	7383.1	6004.7
32.5°	9521.9	9569.5	9453.3	9400.5	9088.9	9094.2	9041.3	8581.9	7953.4	7736.9	6284.6
35°	10203.2	10256.0	10102.9	10013.1	9490.2	9337.1	9363.5	8983.3	8354.8	8138.3	6633.1
37.5°	10810.5	10873.9	10741.9	10609.8	10081.7	9727.9	9722.6	9432.2	8814.3	8592.4	7018.7
40°	11143.2	11217.2	11296.4	11222.5	10667.9	10277.1	10108.1	9891.6	9268.4	9041.3	7435.9
42.5°	11301.7	11507.6	11650.2	11602.7	11148.5	10752.4	10551.8	10372.2	9823.0	9601.1	7932.3
45°	10858.1	10863.3	11164.4	11423.1	11338.6	11074.6	11037.6	10910.9	10456.7	10245.4	8492.1
47.5°	10303.5	10261.3	10472.5	10932.0	11169.7	11238.3	11454.8	11507.6	11180.2	10969.0	9062.5
50°	8972.7	8999.1	9685.6	10345.8	10810.5	11254.2	11750.6	12120.3	11924.9	11724.2	9664.5
52.5°	7298.6	7361.9	8148.8	9601.1	10335.2	11095.7	11924.9	12732.9	12685.3	12495.2	10266.6
55°	5851.5	5951.9	6786.3	8360.1	9727.9	10741.9	11998.8	13292.7	13472.2	13298.0	10858.1
57.5°	4473.1	4578.8	5281.2	6897.2	8951.6	10166.2	11946.0	13783.8	14206.3	14095.4	11402.0
60°	3369.4	3475.0	3923.9	5592.7	7979.8	9521.9	11681.9	14106.0	14866.5	14750.3	11798.1
62.5°	2413.5	2498.0	2830.7	4351.7	6796.9	8756.2	11032.3	14111.3	15241.4	15146.4	11988.2
65°	1737.5	1737.5	2006.8	3105.3	5687.8	7837.2	10050.0	13461.7	15162.2	15135.8	11856.2
67.5°	1251.6	1262.2	1478.7	2170.6	4536.5	6722.9	8777.3	12305.1	14549.6	14681.6	11380.9
70°	887.2	913.6	1014.0	1515.7	3427.5	5307.6	7414.7	10789.4	13445.8	13678.2	10462.0
72.5°	686.6	702.4	771.0	1056.2	2503.3	3945.0	5909.6	9099.4	11972.4	12236.4	9210.3
75°	528.1	544.0	596.8	776.3	1795.6	2767.3	4198.5	7060.9	9654.0	10124.0	7398.9
77.5°	385.5	406.6	443.6	565.1	1045.7	1758.6	2545.5	3971.4	5328.7	5550.5	3876.4
80°	179.6	206.0	258.8	364.4	565.1	829.1	903.1	1531.5	2561.4	2677.5	2101.9
82.5°	100.3	126.7	147.9	221.8	285.2	295.7	306.3	385.5	966.5	1066.8	882.0
85°	47.5	63.4	68.7	95.1	95.1	84.5	100.3	73.9	158.4	190.1	184.8
87.5°	0.0	5.3	10.6	26.4	21.1	15.8	15.8	15.8	15.8	21.1	15.8
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: P841813

CATALOG NUMBER: ARCH4-230-730-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4589.3	4589.3	4589.3	4589.3	4589.3	4589.3	4589.3	4589.3	4589.3	4589.3	4589.3
2.5°	4621.0	4552.4	4393.9	4256.6	4166.8	4087.6	3982.0	3934.5	3850.0	3865.8	3818.3
5°	4647.4	4520.7	4240.8	3982.0	3791.9	3622.9	3438.0	3332.4	3216.2	3205.7	3168.7
7.5°	4663.3	4467.9	4066.5	3702.1	3411.6	3152.9	2904.6	2767.3	2624.7	2593.0	2561.4
10°	4647.4	4388.6	3886.9	3411.6	3026.1	2704.0	2424.1	2249.8	2101.9	2064.9	2033.2
12.5°	4663.3	4346.4	3717.9	3142.3	2682.8	2318.4	2001.6	1822.0	1684.7	1647.7	1626.6
15°	4700.2	4320.0	3575.3	2899.4	2376.5	1969.9	1658.3	1505.1	1394.2	1357.3	1346.7
17.5°	4731.9	4293.6	3422.2	2661.7	2070.2	1663.6	1394.2	1267.5	1172.4	1135.4	1124.9
20°	4774.2	4256.6	3269.0	2434.6	1800.9	1420.6	1183.0	1072.1	998.1	971.7	966.5
22.5°	4811.1	4230.2	3126.4	2207.5	1552.7	1225.2	1024.5	934.8	882.0	855.5	855.5
25°	4906.2	4240.8	3005.0	1996.3	1367.8	1072.1	903.1	834.4	792.2	776.3	776.3
27.5°	5017.1	4283.0	2909.9	1816.7	1209.4	955.9	818.6	760.5	739.4	718.2	723.5
30°	5175.5	4367.5	2846.5	1668.8	1093.2	866.1	749.9	707.7	686.6	681.3	681.3
32.5°	5376.2	4504.8	2841.3	1573.8	1008.7	797.5	702.4	665.4	654.9	649.6	649.6
35°	5613.9	4626.3	2809.6	1531.5	955.9	749.9	665.4	639.0	633.7	633.7	633.7
37.5°	5899.1	4827.0	2788.5	1473.4	929.5	723.5	639.0	617.9	617.9	617.9	617.9
40°	6194.8	4990.7	2756.8	1420.6	918.9	707.7	623.2	596.8	596.8	596.8	596.8
42.5°	6548.6	5228.3	2746.2	1394.2	903.1	697.1	602.1	570.4	575.6	575.6	580.9
45°	6976.4	5497.7	2740.9	1367.8	897.8	686.6	580.9	544.0	549.2	544.0	544.0
47.5°	7409.5	5809.3	2756.8	1352.0	892.5	676.0	565.1	517.6	517.6	512.3	512.3
50°	7863.6	6094.5	2767.3	1336.1	882.0	654.9	538.7	496.4	485.9	475.3	480.6
52.5°	8291.4	6358.5	2772.6	1309.7	850.3	623.2	517.6	470.0	454.2	438.3	443.6
55°	8719.2	6612.0	2783.2	1278.0	808.0	591.5	491.1	443.6	422.5	401.4	401.4
57.5°	9104.7	6833.8	2756.8	1198.8	760.5	559.8	464.7	411.9	380.2	359.1	359.1
60°	9368.8	6992.3	2677.5	1082.6	697.1	522.8	438.3	380.2	343.3	327.4	327.4
62.5°	9495.5	7018.7	2535.0	892.5	617.9	485.9	406.6	348.6	316.9	306.3	306.3
65°	9374.1	6902.5	2313.1	670.7	533.4	443.6	375.0	322.2	290.5	264.1	264.1
67.5°	8951.6	6575.0	2006.8	507.0	454.2	401.4	343.3	295.7	258.8	237.7	237.7
70°	8101.3	5893.8	1552.7	406.6	385.5	348.6	311.6	264.1	232.4	206.0	206.0
72.5°	6987.0	4996.0	1093.2	327.4	327.4	295.7	264.1	232.4	200.7	179.6	179.6
75°	5360.4	3696.8	734.1	264.1	269.3	248.2	216.5	190.1	169.0	153.2	153.2
77.5°	2925.8	1827.3	448.9	195.4	200.7	190.1	169.0	153.2	142.6	126.7	126.7
80°	1420.6	802.7	258.8	137.3	142.6	137.3	126.7	110.9	110.9	100.3	100.3
82.5°	596.8	301.0	137.3	95.1	95.1	84.5	79.2	79.2	79.2	73.9	73.9
85°	147.9	58.1	58.1	52.8	52.8	52.8	47.5	47.5	47.5	37.0	42.2
87.5°	21.1	21.1	21.1	21.1	21.1	21.1	15.8	5.3	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)