

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: P841312

Luminaire Tested: **ARCH4-160-730-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-160-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26070 lumens
Efficiency: N/A
Efficacy: 162.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.7
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

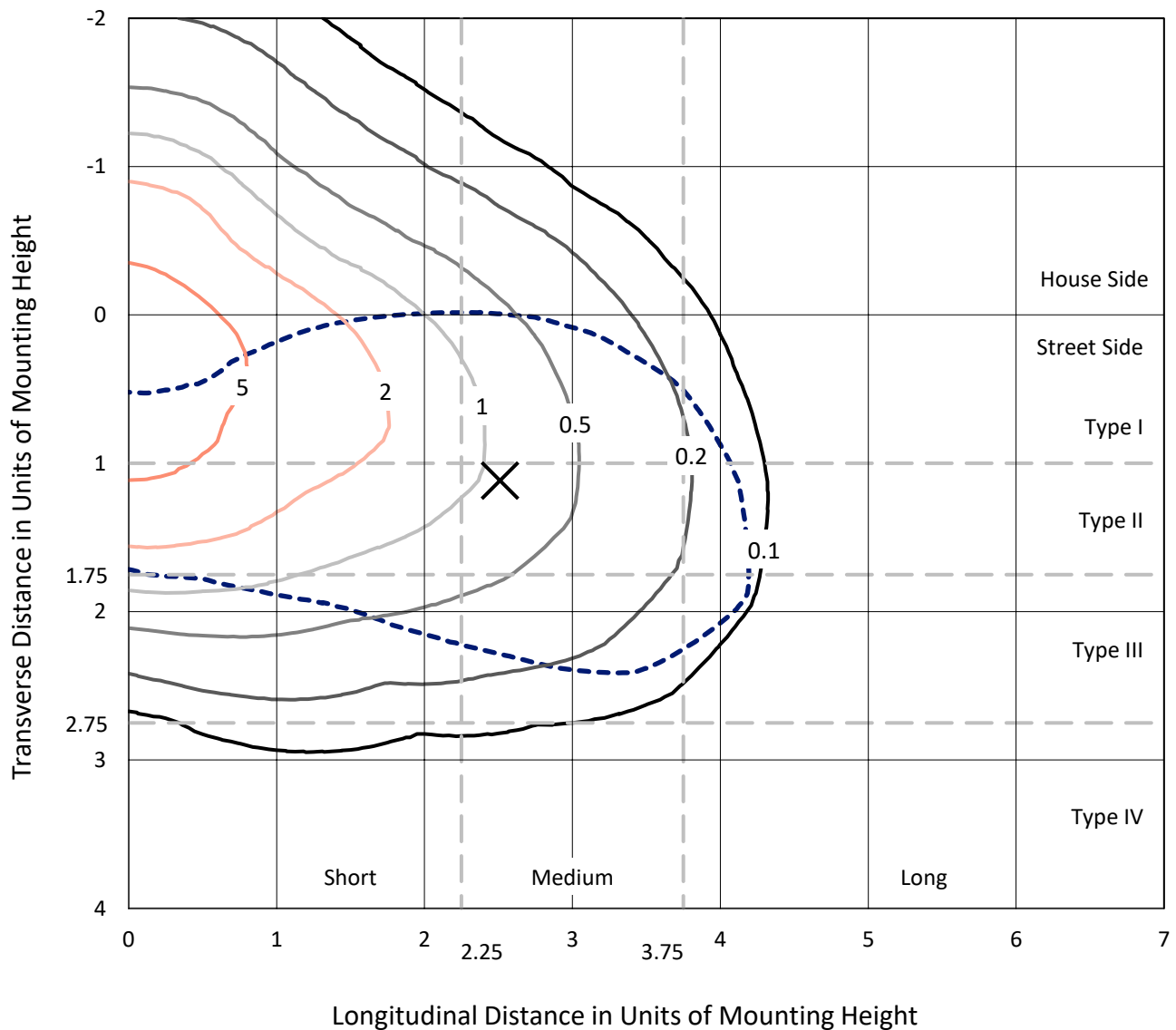


REPORT NUMBER: P841312

CATALOG NUMBER: ARCH4-160-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

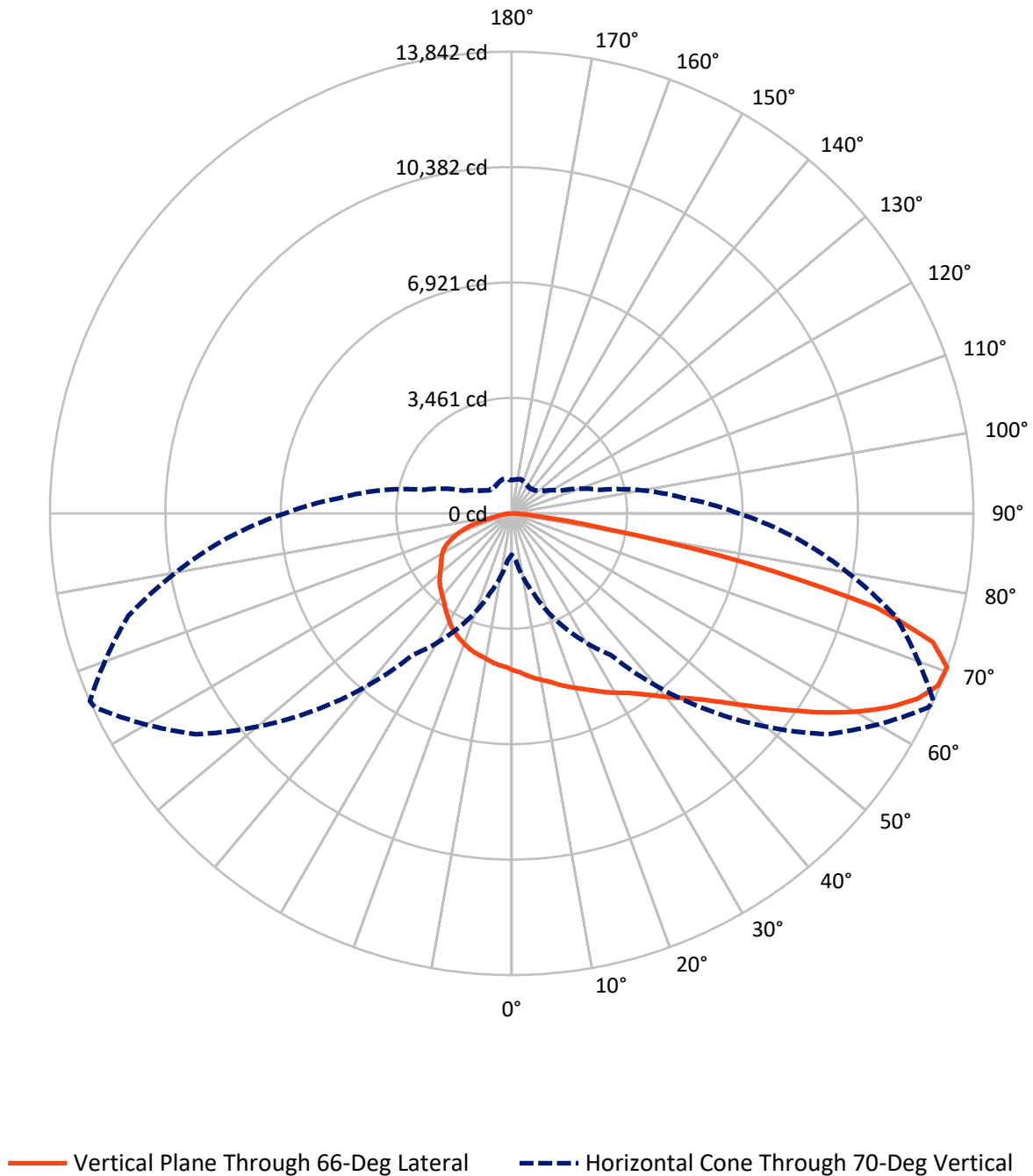
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
Type III - Medium - N/A

REPORT NUMBER: P841312
CATALOG NUMBER: ARCH4-160-730-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P841312

CATALOG NUMBER: ARCH4-160-730-U-T3

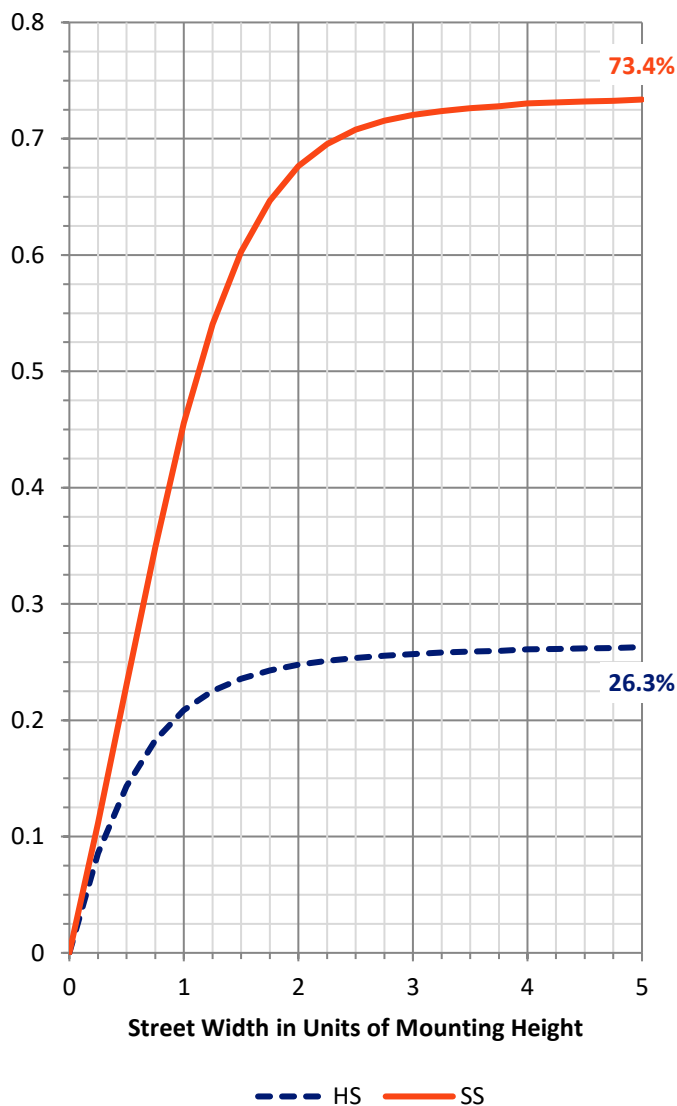
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6908.0	0.0	6908.0
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	19162.0	0.0	19162.0
	% Fixture	73.5	0.0	73.5
Total	Lumens	26070.0	0.0	26070.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.1	1.7
10°-20°	1356.2	5.2
20°-30°	2273.4	8.7
30°-40°	3404.0	13.1
40°-50°	4551.1	17.5
50°-60°	5313.6	20.4
60°-70°	5283.5	20.3
70°-80°	3127.9	12.0
80°-90°	308.3	1.2
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°	26070.0	100.0
0°-180°	26070.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841312

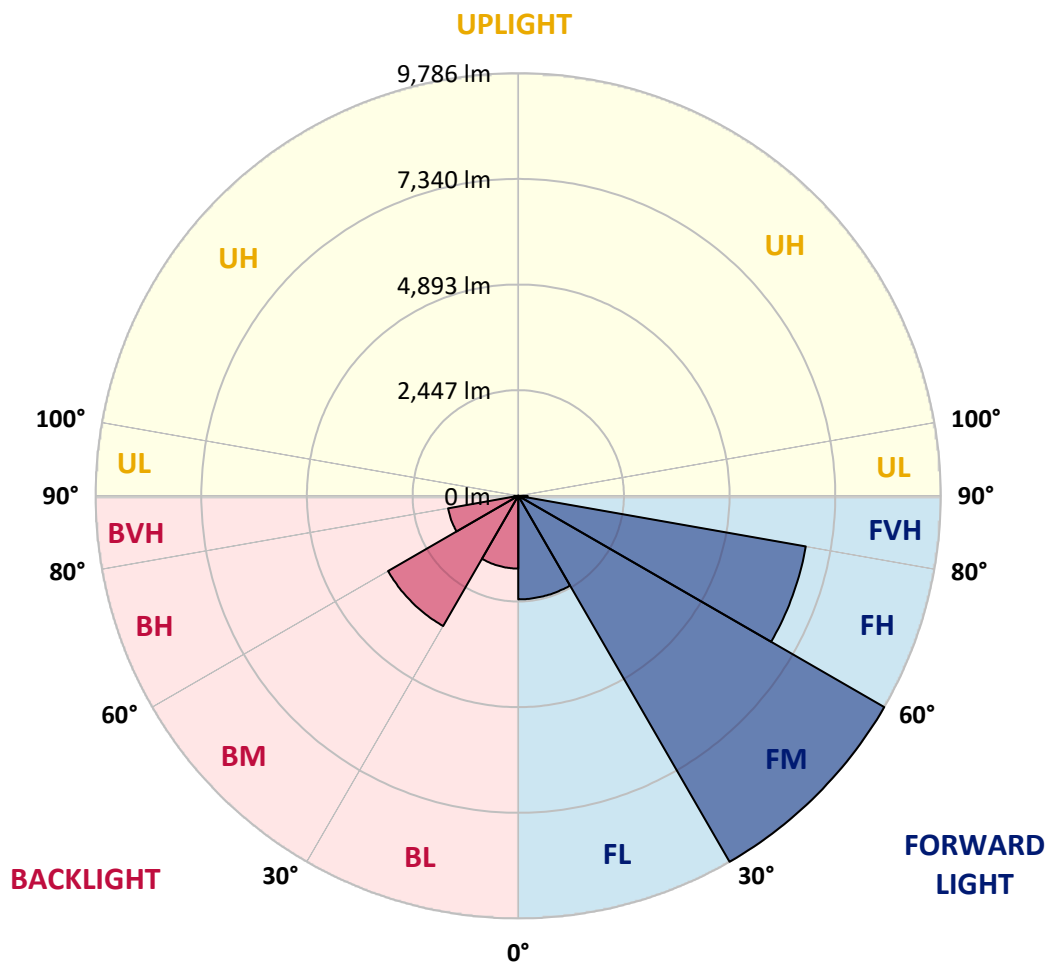
CATALOG NUMBER: ARCH4-160-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2397.8	9.2			
FM	(30°-60°)	9786.3	37.5			
FH	(60°-80°)	6761.3	25.9			G3/7500
FVH	(80°-90°)	216.7	0.8			G2/225
BL	(0°-30°)	1683.9	6.5	B3/2500		
BM	(30°-60°)	3482.3	13.4	B3/5000		
BH	(60°-80°)	1650.1	6.3	B3/2500		G3/2500
BVH	(80°-90°)	91.6	0.4			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 III Medium



REPORT NUMBER: P841312

CATALOG NUMBER: ARCH4-160-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0
2.5°	4878.0	4870.3	4866.5	4851.1	4816.5	4831.9	4797.3	4774.2	4770.4	4716.6	4685.8
5°	5077.9	5074.1	5066.4	5043.3	4989.5	4997.2	4939.5	4897.2	4885.7	4801.1	4735.8
7.5°	5247.0	5239.4	5235.5	5204.8	5147.1	5143.3	5074.1	5012.6	4993.3	4878.0	4778.1
10°	5377.7	5366.2	5373.9	5343.1	5281.6	5270.1	5181.7	5101.0	5081.8	4935.7	4797.3
12.5°	5489.2	5481.5	5493.1	5466.2	5416.2	5404.6	5316.2	5212.4	5189.4	5020.2	4839.6
15°	5612.2	5585.3	5608.4	5596.8	5562.3	5558.4	5477.7	5362.4	5331.6	5127.9	4904.9
17.5°	5677.6	5662.2	5689.1	5692.9	5677.6	5704.5	5627.6	5489.2	5462.3	5227.8	4962.6
20°	5723.7	5700.6	5731.4	5754.5	5766.0	5819.8	5758.3	5623.8	5593.0	5323.9	5016.4
22.5°	5881.3	5831.3	5835.2	5850.5	5858.2	5935.1	5896.7	5766.0	5735.2	5443.1	5081.8
25°	6277.2	6177.3	6111.9	6065.8	6012.0	6077.3	6054.3	5927.4	5900.5	5585.3	5162.5
27.5°	6892.3	6765.4	6634.7	6500.2	6288.8	6261.9	6223.4	6108.1	6077.3	5727.5	5243.2
30°	7591.9	7465.0	7311.3	7096.0	6700.1	6492.5	6404.1	6277.2	6242.6	5854.4	5320.1
32.5°	8287.6	8176.2	8022.4	7761.0	7195.9	6773.1	6584.8	6454.1	6419.5	5992.8	5412.3
35°	8829.6	8760.4	8660.5	8333.8	7688.0	7103.7	6846.1	6688.5	6650.1	6211.9	5581.5
37.5°	9267.9	9217.9	9133.3	8791.2	8045.5	7434.3	7146.0	6965.3	6923.0	6450.2	5762.1
40°	9913.6	9782.9	9713.8	9217.9	8356.8	7734.1	7484.2	7295.9	7249.8	6703.9	5908.2
42.5°	10463.3	10367.2	10282.7	9598.4	8652.8	7991.7	7803.3	7630.3	7568.8	6953.8	6065.8
45°	10555.6	10594.0	10551.7	9786.8	9121.8	8245.4	8126.2	8014.7	7957.1	7292.0	6304.1
47.5°	10559.4	10559.4	10309.6	9894.4	9702.2	8529.8	8472.1	8510.6	8449.1	7722.6	6588.6
50°	10282.7	10332.6	10201.9	9921.3	9856.0	8814.3	8895.0	9102.6	9041.1	8180.0	6896.1
52.5°	9709.9	9875.2	9871.4	9879.0	9633.0	9056.4	9340.9	9813.7	9709.9	8695.1	7222.9
55°	8698.9	9029.5	9325.5	9579.2	9440.8	9202.5	9886.7	10571.0	10463.3	9271.7	7553.4
57.5°	7834.0	8045.5	8414.5	9133.3	9214.0	9329.4	10398.0	11362.8	11266.7	9909.8	7899.4
60°	6846.1	7138.3	7507.3	8529.8	8937.3	9494.7	10959.2	12135.5	12043.2	10555.6	8233.8
62.5°	5327.8	5704.5	6442.5	7603.4	8533.7	9598.4	11401.3	12815.9	12773.6	11166.8	8533.7
65°	3713.3	4047.7	5081.8	6465.6	7891.7	9552.3	11754.9	13423.2	13384.8	11666.5	8745.1
67.5°	2168.0	2556.3	3724.8	5204.8	6757.7	9233.3	11870.2	13780.7	13780.7	11970.2	8802.7
70°	1237.8	1418.4	2456.3	3794.0	5181.7	8353.0	11547.3	13776.9	13842.2	11901.0	8564.4
72.5°	864.9	945.6	1652.9	2552.4	3513.4	6757.7	10701.7	13111.8	13200.3	11247.5	7749.5
75°	672.7	730.4	1164.7	1741.3	2214.1	4589.7	8852.7	11055.3	11289.8	9586.9	6265.7
77.5°	511.3	553.5	680.4	1087.8	1418.4	2637.0	5842.9	7249.8	7265.1	5869.8	3359.6
80°	372.9	415.2	453.6	665.0	753.4	1233.9	2206.4	3029.1	2944.5	2840.7	1818.2
82.5°	223.0	265.2	276.8	361.3	369.0	526.6	772.6	976.4	937.9	1249.3	853.4
85°	96.1	134.5	142.2	165.3	157.6	215.3	307.5	257.5	230.6	265.2	184.5
87.5°	23.1	38.4	38.4	42.3	34.6	53.8	57.7	42.3	38.4	46.1	46.1
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: P841312

CATALOG NUMBER: ARCH4-160-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0
2.5°	4678.1	4666.6	4670.4	4605.1	4585.9	4566.7	4555.1	4547.4	4539.7	4551.3	4562.8
5°	4712.7	4685.8	4655.1	4559.0	4520.5	4478.2	4447.5	4420.6	4409.1	4409.1	4420.6
7.5°	4739.6	4693.5	4628.2	4501.3	4432.1	4374.5	4324.5	4289.9	4270.7	4270.7	4282.2
10°	4743.5	4678.1	4574.3	4420.6	4328.3	4243.8	4186.1	4147.7	4120.8	4120.8	4128.4
12.5°	4766.5	4678.1	4543.6	4359.1	4243.8	4140.0	4070.8	4013.1	4001.6	4001.6	4009.3
15°	4805.0	4697.4	4524.4	4305.3	4166.9	4047.7	3970.8	3909.3	3886.3	3901.6	3905.5
17.5°	4839.6	4708.9	4489.8	4236.1	4070.8	3940.1	3855.5	3801.7	3771.0	3805.5	3805.5
20°	4862.6	4708.9	4439.8	4147.7	3967.0	3820.9	3740.2	3674.9	3651.8	3694.1	3697.9
22.5°	4897.2	4705.0	4386.0	4059.3	3855.5	3701.8	3621.0	3571.1	3559.5	3605.7	3621.0
25°	4935.7	4712.7	4328.3	3959.3	3732.5	3582.6	3521.1	3498.0	3505.7	3563.4	3582.6
27.5°	4978.0	4728.1	4270.7	3847.8	3598.0	3463.4	3428.8	3440.4	3471.1	3544.2	3567.2
30°	5016.4	4731.9	4189.9	3717.1	3444.2	3317.4	3332.7	3382.7	3428.8	3501.9	3528.8
32.5°	5066.4	4735.8	4105.4	3574.9	3278.9	3186.7	3255.9	3336.6	3382.7	3451.9	3482.7
35°	5189.4	4801.1	4040.0	3436.5	3125.2	3075.2	3190.5	3294.3	3321.2	3382.7	3409.6
37.5°	5331.6	4908.8	4005.4	3294.3	2975.2	2963.7	3109.8	3213.6	3221.3	3259.7	3286.6
40°	5420.0	4954.9	3967.0	3175.1	2840.7	2848.4	2998.3	3079.0	3063.7	3090.6	3109.8
42.5°	5508.4	4970.3	3886.3	3075.2	2713.9	2721.5	2836.9	2894.5	2902.2	2959.9	2986.8
45°	5658.4	5012.6	3797.9	2982.9	2598.5	2571.6	2640.8	2717.7	2817.6	2929.1	2959.9
47.5°	5858.2	5101.0	3705.6	2871.5	2487.1	2398.6	2425.6	2560.1	2663.9	2767.7	2786.9
50°	6062.0	5189.4	3621.0	2736.9	2375.6	2214.1	2225.7	2348.7	2433.2	2514.0	2525.5
52.5°	6261.9	5266.3	3548.0	2610.1	2248.7	1995.0	2041.2	2168.0	2225.7	2264.1	2275.6
55°	6461.7	5331.6	3482.7	2502.4	2102.7	1822.1	1864.3	1983.5	2041.2	2060.4	2068.1
57.5°	6669.3	5408.5	3432.7	2410.2	1937.4	1668.3	1695.2	1779.8	1833.6	1856.6	1849.0
60°	6842.3	5473.8	3405.8	2314.1	1772.1	1526.1	1518.4	1595.3	1672.1	1695.2	1687.5
62.5°	6976.8	5516.1	3363.5	2191.1	1626.0	1383.8	1345.4	1445.3	1526.1	1541.4	1553.0
65°	7049.9	5520.0	3259.7	2033.5	1476.1	1230.1	1203.2	1303.1	1353.1	1368.5	1368.5
67.5°	7038.3	5458.5	3056.0	1822.1	1337.7	1091.7	1068.6	1130.1	1203.2	1214.7	1203.2
70°	6800.0	5204.8	2729.2	1599.1	1172.4	968.7	926.4	987.9	1057.1	1014.8	995.6
72.5°	6123.5	4547.4	2248.7	1353.1	987.9	814.9	795.7	857.2	861.1	868.7	849.5
75°	4831.9	3386.6	1683.7	1053.3	799.5	684.2	680.4	668.9	684.2	715.0	691.9
77.5°	2537.0	1691.4	911.0	645.8	580.4	549.7	522.8	518.9	565.1	584.3	561.2
80°	1376.1	949.5	522.8	388.2	353.6	357.5	392.1	384.4	434.4	445.9	426.7
82.5°	599.7	449.7	257.5	234.5	234.5	230.6	242.2	269.1	322.9	322.9	257.5
85°	130.7	111.5	99.9	115.3	130.7	130.7	130.7	130.7	92.3	50.0	34.6
87.5°	42.3	42.3	42.3	46.1	50.0	50.0	42.3	30.8	19.2	3.8	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)