

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: P841518

Luminaire Tested: **ARCH4-190-727-U-T3-HSS**

Issue Date: 5/27/2024

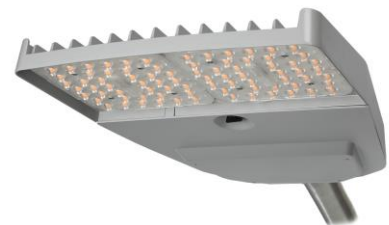
Test Information

Test Method: LM-79-08
Report Number: P841518
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: ARCH4-190-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1530mA 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: 19486 lumens
Efficiency: N/A
Efficacy: 102.6 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): 190
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



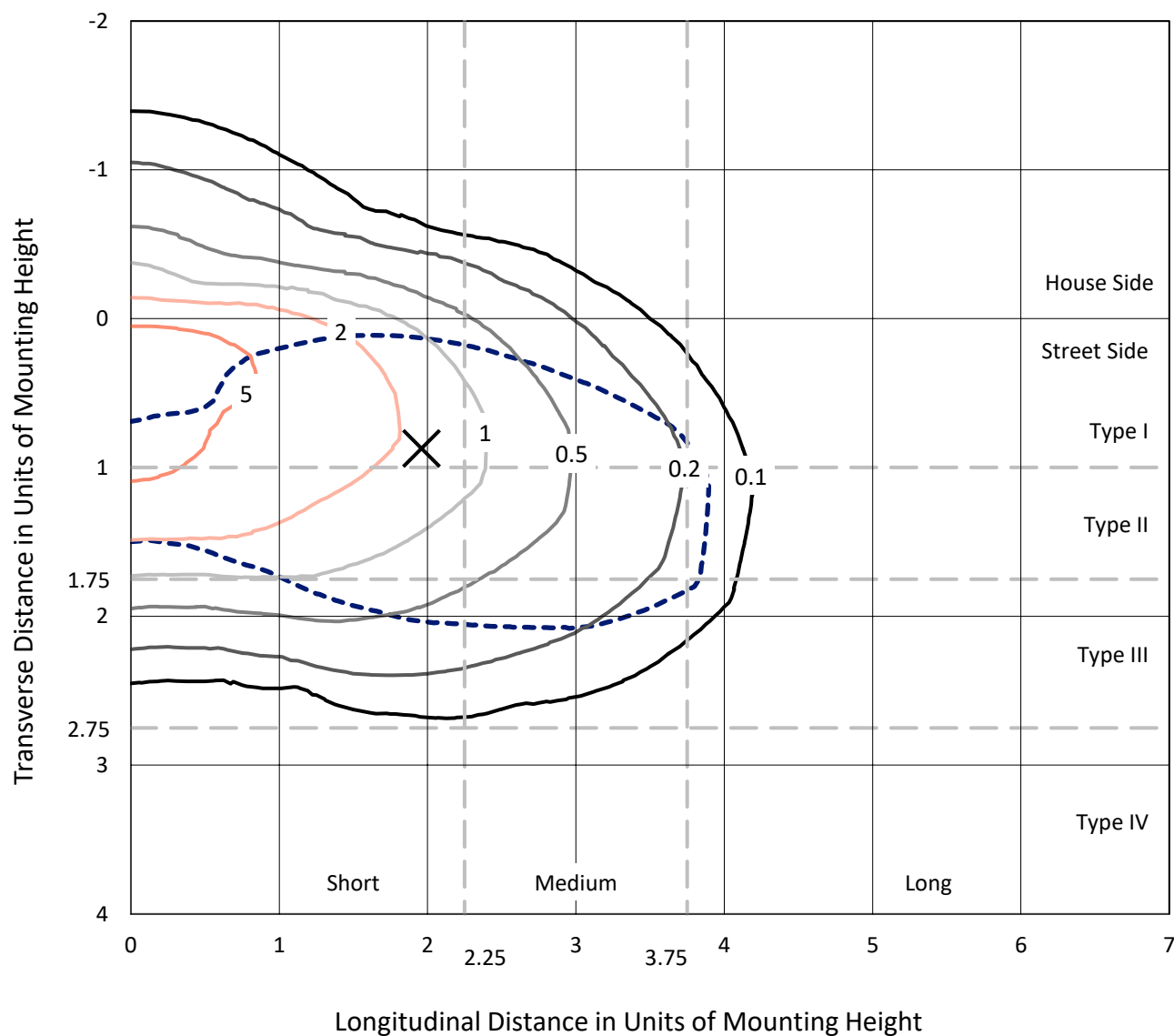
REPORT NUMBER: P841518

CATALOG NUMBER: ARCH4-190-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

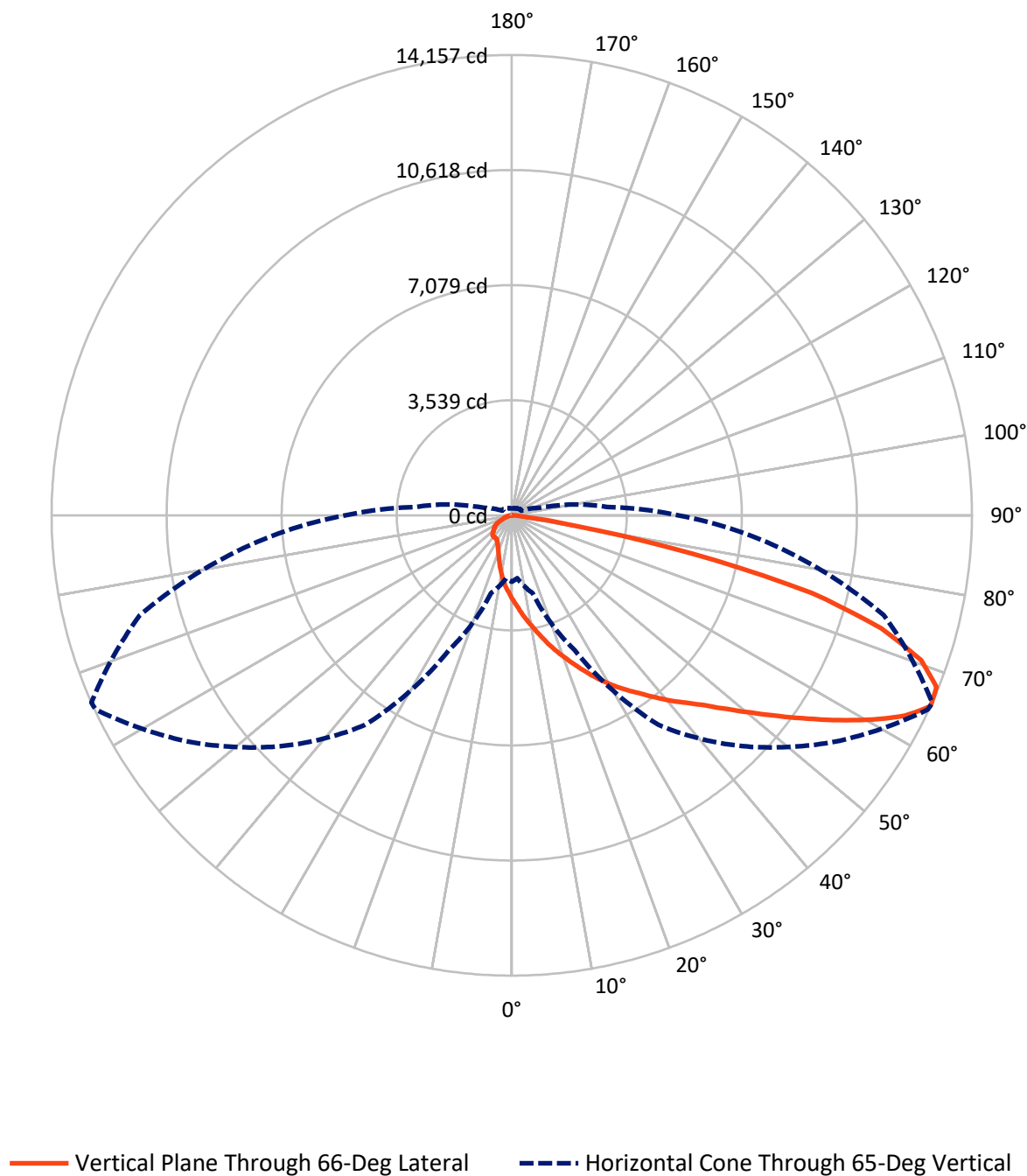


Based on 25 foot mounting height. Maximum calculated value = 7.5 fc

Type III - Short - N/A

REPORT NUMBER: P841518
CATALOG NUMBER: ARCH4-190-727-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P841518

CATALOG NUMBER: ARCH4-190-727-U-T3-HSS

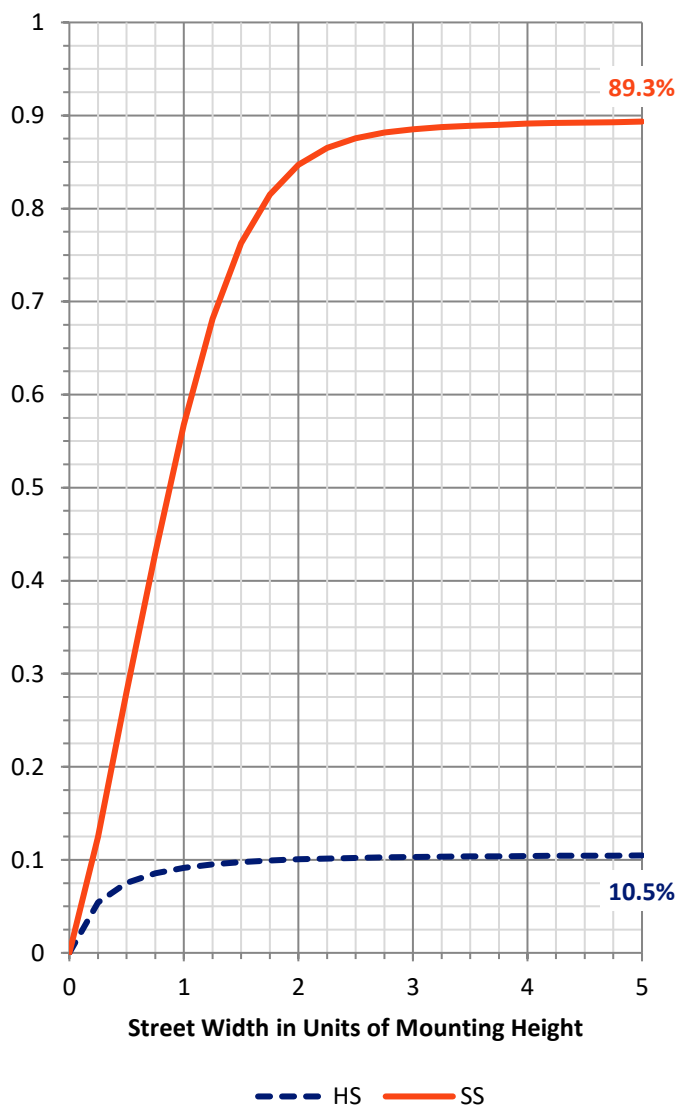
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2061.1	0.0	2061.1
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	17424.9	0.0	17424.9
	% Fixture	89.4	0.0	89.4
Total	Lumens	19486.0	0.0	19486.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.5	1.3
10°-20°	829.6	4.3
20°-30°	1501.0	7.7
30°-40°	2347.2	12.0
40°-50°	3560.6	18.3
50°-60°	4523.9	23.2
60°-70°	4227.1	21.7
70°-80°	2100.8	10.8
80°-90°	141.2	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°	19486.0	100.0
0°-180°	19486.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841518

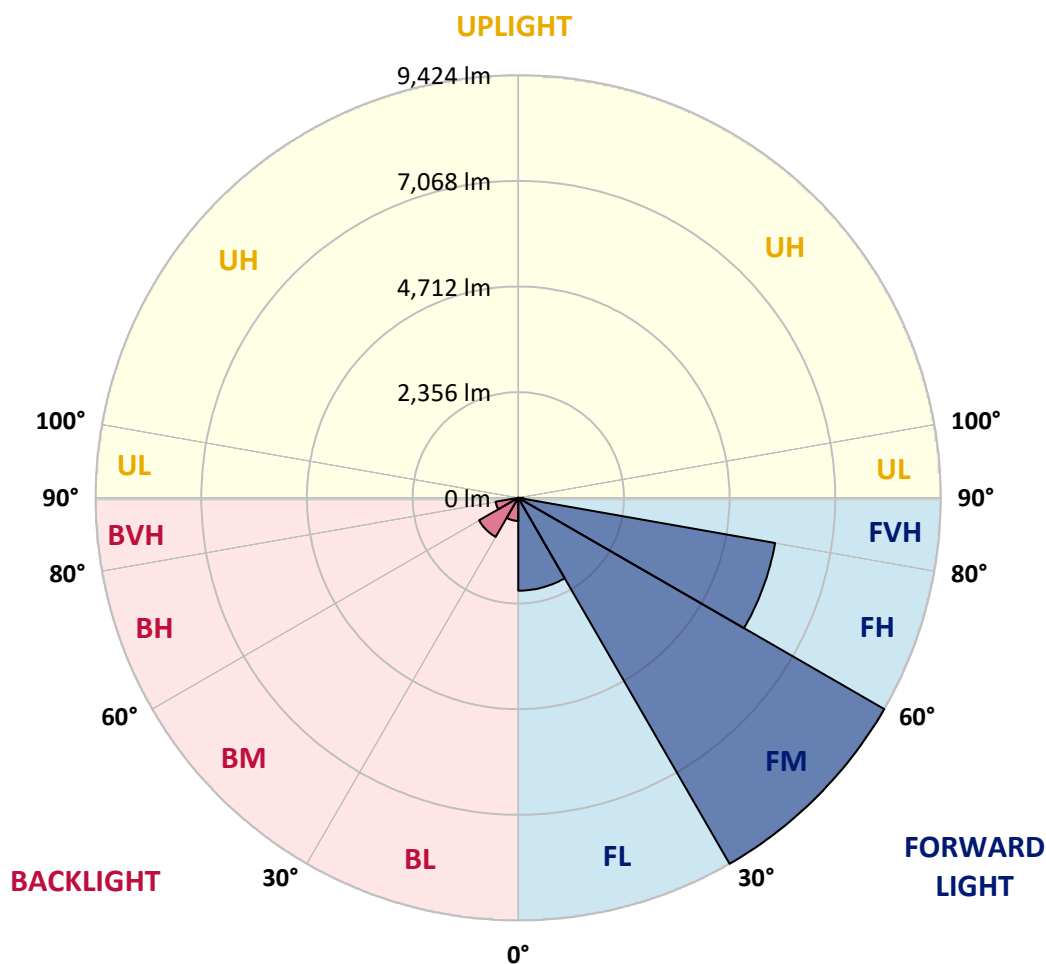
CATALOG NUMBER: ARCH4-190-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2070.4	10.6			
FM	(30°-60°)	9423.6	48.4			
FH	(60°-80°)	5814.7	29.8			G3/7500
FVH	(80°-90°)	116.2	0.6			G2/225
BL	(0°-30°)	514.7	2.6	B2/1000		
BM	(30°-60°)	1008.1	5.2	B2/2500		
BH	(60°-80°)	513.3	2.6	B2/1000		G2/1000
BVH	(80°-90°)	25.0	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: P841518

CATALOG NUMBER: ARCH4-190-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9
2.5°	3012.1	3036.6	3048.9	3053.0	2959.0	2918.1	2877.2	2783.2	2762.8	2709.6	2640.2
5°	3543.4	3576.1	3567.9	3551.6	3437.1	3306.3	3200.1	3024.3	2995.7	2869.0	2713.7
7.5°	4066.5	4095.1	4086.9	4025.6	3898.9	3715.0	3539.3	3281.8	3241.0	3036.6	2787.3
10°	4503.8	4528.3	4524.3	4462.9	4311.7	4086.9	3874.4	3531.1	3482.1	3191.9	2848.6
12.5°	4863.5	4896.2	4892.1	4851.2	4716.3	4471.1	4230.0	3817.2	3755.9	3379.9	2934.4
15°	5145.5	5186.3	5186.3	5170.0	5076.0	4871.6	4597.8	4131.9	4058.3	3596.5	3040.7
17.5°	5317.1	5349.8	5378.4	5407.0	5341.6	5186.3	4937.0	4446.6	4368.9	3809.0	3151.0
20°	5407.0	5439.7	5460.2	5521.5	5533.7	5456.1	5259.9	4757.2	4675.5	4050.2	3277.7
22.5°	5554.2	5582.8	5586.9	5640.0	5664.5	5684.9	5562.3	5063.7	4998.3	4315.8	3420.8
25°	5799.4	5832.1	5819.8	5844.3	5848.4	5872.9	5860.7	5415.2	5349.8	4618.3	3592.4
27.5°	6114.1	6154.9	6146.8	6122.3	6085.5	6065.0	6118.2	5770.8	5709.5	4920.7	3768.2
30°	6453.3	6502.3	6490.1	6441.0	6342.9	6257.1	6330.7	6105.9	6048.7	5231.3	3964.3
32.5°	6796.6	6853.8	6849.7	6768.0	6600.4	6453.3	6563.6	6420.6	6379.7	5566.4	4176.9
35°	7021.4	7094.9	7086.8	7037.7	6821.1	6694.4	6829.3	6743.5	6714.9	5975.1	4483.4
37.5°	7385.1	7462.8	7393.3	7270.7	7021.4	6956.0	7119.5	7107.2	7086.8	6408.3	4806.3
40°	8267.9	8382.3	8198.4	7695.7	7287.0	7229.8	7462.8	7511.8	7491.4	6837.5	5096.4
42.5°	9191.5	9363.2	9077.1	8382.3	7769.3	7560.9	7838.8	7908.2	7883.7	7205.3	5358.0
45°	9751.5	9825.0	9538.9	8999.5	8623.5	7961.4	8239.3	8353.7	8333.3	7646.7	5693.1
47.5°	10209.2	10180.6	9853.6	9489.9	9559.4	8525.4	8692.9	8917.7	8901.4	8133.0	6060.9
50°	10307.3	10241.9	10111.1	9882.2	10066.2	9097.5	9171.1	9559.4	9543.0	8672.5	6432.9
52.5°	9616.6	9530.8	9886.3	10078.4	10017.1	9514.4	9698.3	10262.3	10254.2	9256.9	6788.4
55°	7891.9	7822.4	8778.8	9771.9	9964.0	9808.7	10282.8	10993.9	11038.9	9878.2	7111.3
57.5°	6208.1	6134.5	7074.5	9003.5	9767.8	10078.4	10965.3	11831.7	11888.9	10552.5	7417.8
60°	4949.3	4838.9	5558.3	7793.8	9400.0	10286.9	11623.3	12751.3	12759.5	11169.6	7605.8
62.5°	3363.6	3241.0	4037.9	6261.2	8782.9	10319.5	12130.1	13544.2	13576.8	11631.5	7638.5
65°	2043.5	1941.3	2480.8	4573.3	7871.5	10041.6	12138.2	14128.6	14157.2	11844.0	7442.3
67.5°	1185.2	1144.3	1418.2	2848.6	6359.3	9293.7	11627.4	14038.7	14091.8	11754.1	6996.9
70°	690.7	686.6	788.8	1410.0	4487.5	7810.2	10487.1	13282.6	13360.2	11284.1	6314.3
72.5°	506.8	515.0	555.8	756.1	2599.3	5623.6	8880.9	11762.2	11880.8	10364.5	5341.6
75°	400.5	404.6	441.4	515.0	1365.0	3179.6	6653.6	9440.9	9534.9	8725.6	4172.8
77.5°	298.3	306.5	335.1	363.7	633.5	1459.0	3743.6	5815.7	5660.4	4789.9	2014.9
80°	216.6	237.0	249.3	261.6	335.1	564.0	1123.9	2027.1	2010.8	2092.5	952.3
82.5°	139.0	155.3	167.6	175.7	200.3	269.7	335.1	453.7	490.4	813.3	380.1
85°	61.3	69.5	77.7	94.0	85.8	94.0	139.0	89.9	77.7	122.6	69.5
87.5°	0.0	0.0	12.3	20.4	16.3	8.2	24.5	16.3	12.3	12.3	12.3
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: P841518

CATALOG NUMBER: ARCH4-190-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9
2.5°	2603.4	2558.4	2464.4	2374.5	2321.4	2251.9	2190.6	2133.4	2129.3	2113.0	2084.3
5°	2636.1	2550.3	2374.5	2207.0	2080.3	1945.4	1831.0	1741.0	1708.3	1683.8	1651.1
7.5°	2668.8	2533.9	2272.3	2027.1	1826.9	1638.9	1504.0	1381.4	1344.6	1311.9	1291.5
10°	2681.0	2505.3	2153.8	1826.9	1565.3	1365.0	1222.0	1132.1	1099.4	1083.0	1070.8
12.5°	2717.8	2489.0	2043.5	1638.9	1336.4	1152.5	1050.3	997.2	985.0	972.7	960.4
15°	2766.9	2489.0	1933.1	1455.0	1156.6	1009.5	948.2	911.4	903.2	899.1	891.0
17.5°	2820.0	2489.0	1826.9	1299.6	1025.8	915.5	870.5	850.1	846.0	841.9	837.8
20°	2893.6	2493.0	1712.4	1164.8	931.8	846.0	809.2	784.7	780.6	776.5	776.5
22.5°	2967.1	2501.2	1602.1	1062.6	870.5	792.9	747.9	723.4	715.2	715.2	715.2
25°	3061.1	2525.7	1499.9	976.8	817.4	743.8	686.6	666.2	662.1	662.1	658.0
27.5°	3171.5	2554.3	1410.0	911.4	764.3	686.6	629.4	609.0	600.8	600.8	596.7
30°	3290.0	2583.0	1336.4	862.3	711.1	629.4	576.3	551.7	543.6	547.7	543.6
32.5°	3420.8	2623.8	1279.2	829.7	662.1	580.3	531.3	502.7	498.6	498.6	494.5
35°	3641.5	2738.3	1271.0	813.3	621.2	543.6	494.5	465.9	461.8	461.8	457.7
37.5°	3878.5	2869.0	1307.8	805.1	588.5	510.9	465.9	437.3	433.2	433.2	433.2
40°	4078.8	2967.1	1348.7	805.1	568.1	482.3	441.4	416.9	416.9	416.9	416.9
42.5°	4213.6	2975.3	1340.5	805.1	551.7	461.8	425.0	400.5	400.5	404.6	400.5
45°	4413.9	3016.2	1307.8	792.9	539.5	445.5	408.7	388.3	384.2	388.3	388.3
47.5°	4650.9	3089.7	1275.1	743.8	535.4	429.1	396.4	371.9	367.8	371.9	367.8
50°	4875.7	3155.1	1258.8	678.4	527.2	412.8	380.1	355.6	351.5	355.6	351.5
52.5°	5063.7	3183.7	1230.2	633.5	506.8	396.4	363.7	339.2	331.0	335.1	335.1
55°	5214.9	3175.6	1189.3	596.7	470.0	380.1	343.3	322.9	310.6	310.6	306.5
57.5°	5353.9	3179.6	1152.5	559.9	429.1	355.6	327.0	302.4	286.1	282.0	277.9
60°	5407.0	3159.2	1087.1	510.9	388.3	335.1	306.5	277.9	261.6	257.5	253.4
62.5°	5333.5	3085.6	1001.3	425.0	351.5	310.6	286.1	257.5	241.1	237.0	233.0
65°	5125.0	2946.7	870.5	335.1	318.8	282.0	261.6	241.1	220.7	212.5	208.4
67.5°	4769.5	2746.4	707.0	269.7	282.0	257.5	245.2	220.7	196.2	188.0	183.9
70°	4262.7	2480.8	531.3	228.9	249.3	228.9	220.7	196.2	175.7	167.6	163.5
72.5°	3551.6	2051.6	371.9	196.2	216.6	200.3	192.1	175.7	155.3	143.0	143.0
75°	2685.1	1471.3	245.2	167.6	179.8	171.7	159.4	147.1	134.9	126.7	122.6
77.5°	1156.6	572.2	151.2	126.7	147.1	143.0	126.7	118.5	114.4	106.3	106.3
80°	498.6	233.0	94.0	94.0	106.3	102.2	98.1	89.9	89.9	85.8	81.7
82.5°	183.9	94.0	57.2	69.5	77.7	69.5	69.5	69.5	69.5	65.4	65.4
85°	45.0	28.6	28.6	40.9	45.0	40.9	45.0	40.9	40.9	40.9	36.8
87.5°	12.3	12.3	16.3	16.3	16.3	16.3	16.3	12.3	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)