

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: P841037

Luminaire Tested: **ARCH4-120-740-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841037
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: ARCH4-120-740-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1000mA 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: 14985 lumens
Efficiency: N/A
Efficacy: 122.8 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

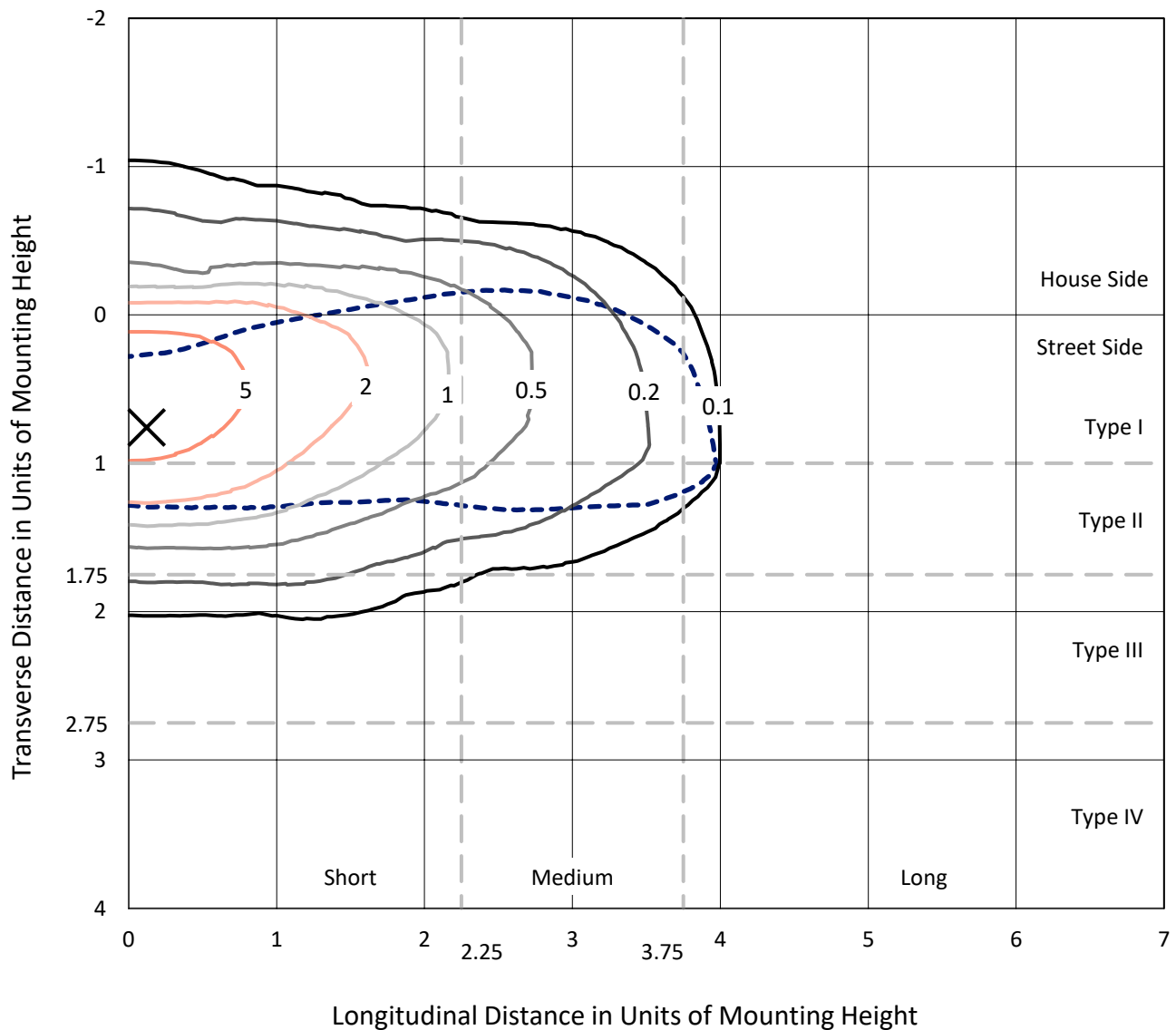
Input Watts (W): 122
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P841037
CATALOG NUMBER: ARCH4-120-740-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

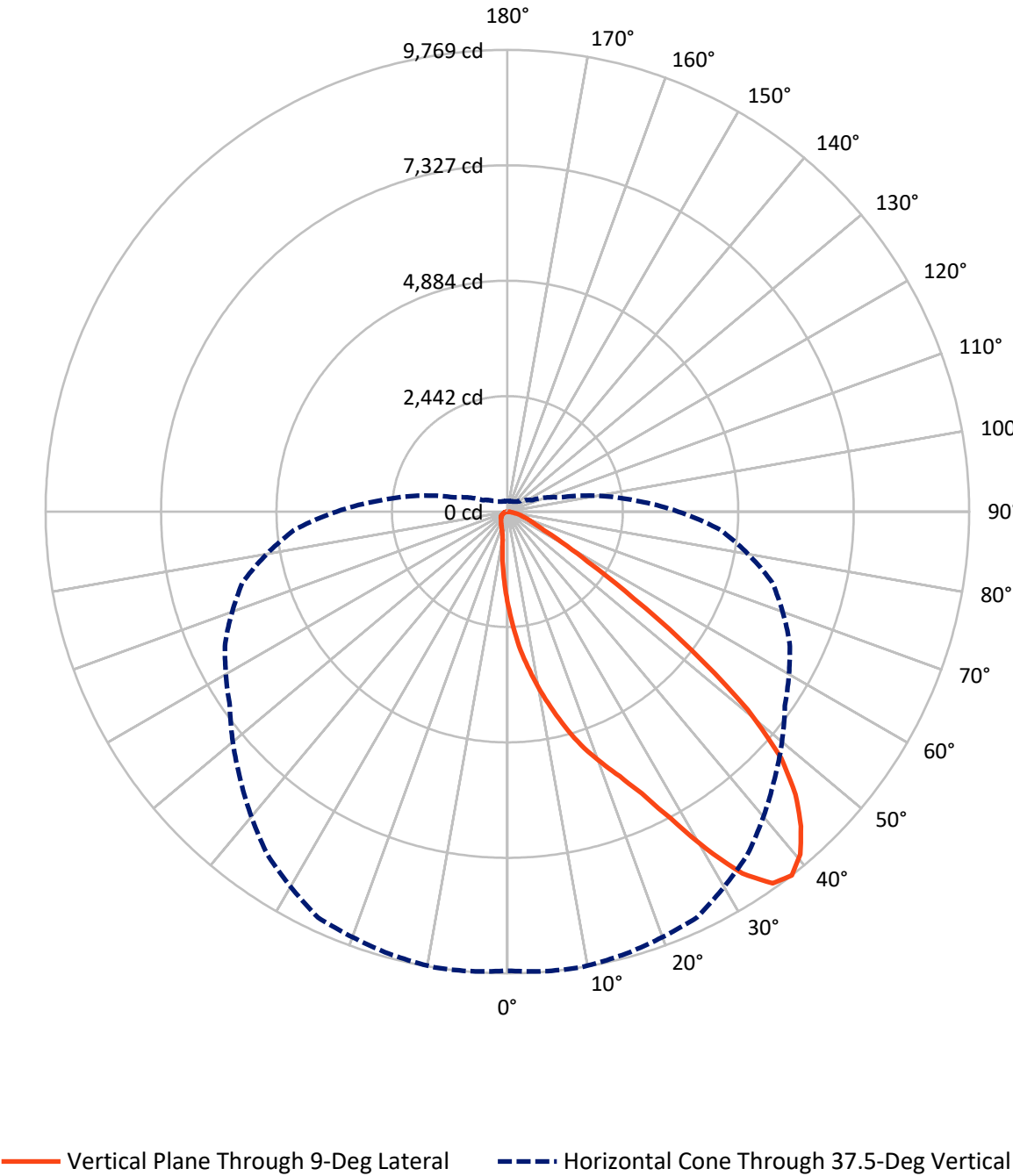
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
Type II - Short - N/A

REPORT NUMBER: P841037
CATALOG NUMBER: ARCH4-120-740-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P841037

CATALOG NUMBER: ARCH4-120-740-U-T2R-HSS

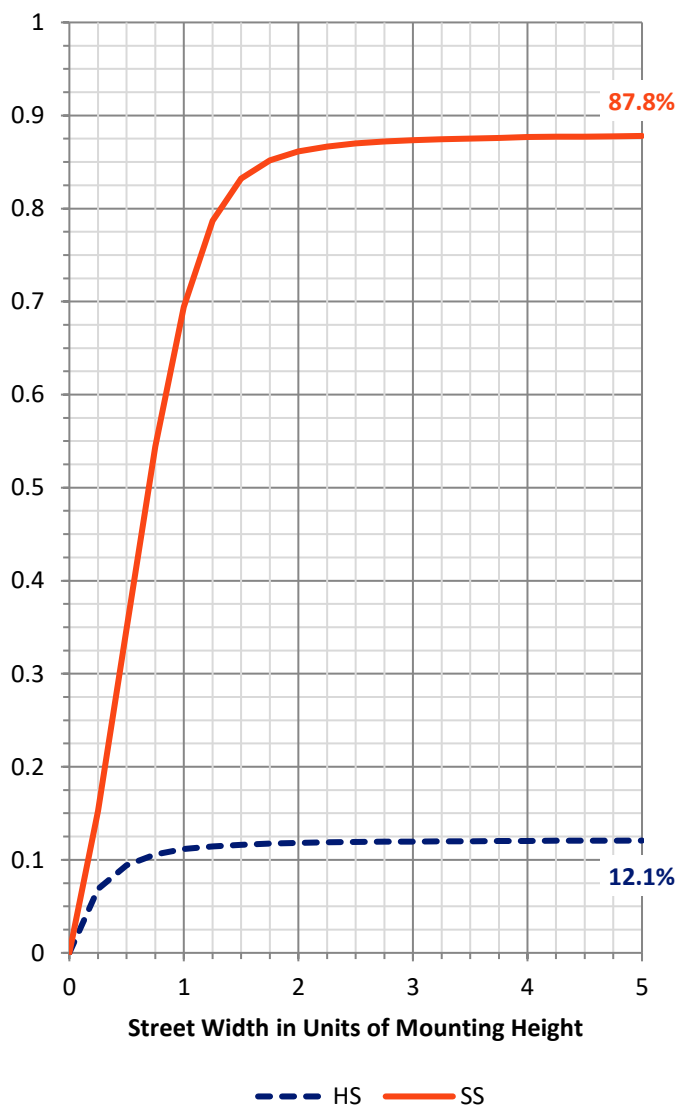
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1822.4	0.0	1822.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	13162.6	0.0	13162.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	14985.0	0.0	14985.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.1	1.3
10°-20°	692.0	4.6
20°-30°	1421.9	9.5
30°-40°	2513.4	16.8
40°-50°	3338.8	22.3
50°-60°	3166.7	21.1
60°-70°	2415.9	16.1
70°-80°	1171.2	7.8
80°-90°	65.9	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°	14985.0	100.0
0°-180°	14985.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841037

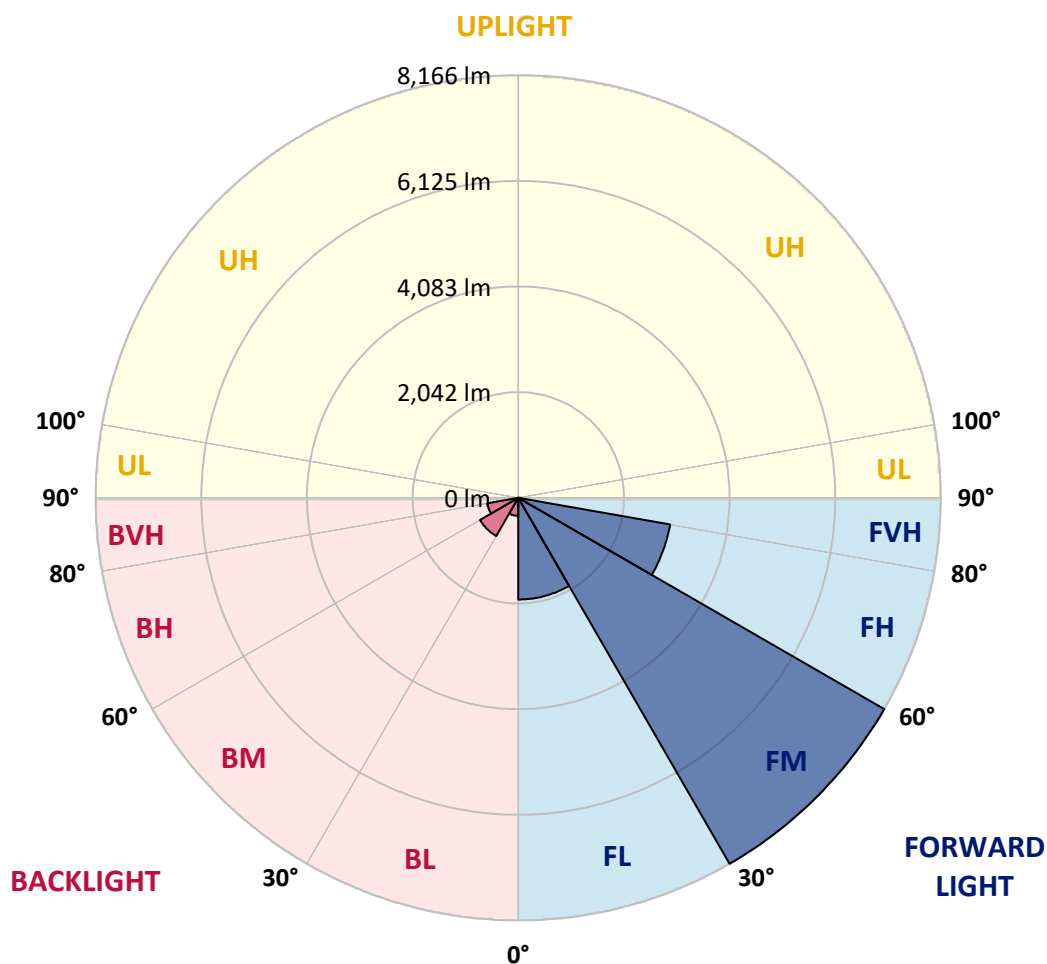
CATALOG NUMBER: ARCH4-120-740-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1965.3	13.1			
FM	(30°-60°)	8166.1	54.5			
FH	(60°-80°)	2979.0	19.9			G2/5000
FVH	(80°-90°)	52.2	0.3			G1/100
BL	(0°-30°)	347.8	2.3	B1/500		
BM	(30°-60°)	852.8	5.7	B1/1000		
BH	(60°-80°)	608.1	4.1	B2/1000		G2/1000
BVH	(80°-90°)	13.7	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: P841037

CATALOG NUMBER: ARCH4-120-740-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8
2.5°	2454.5	2411.5	2460.7	2454.5	2411.5	2383.8	2297.6	2270.0	2168.5	2094.6	2030.0
5°	2959.0	2915.9	2959.0	2946.6	2885.1	2817.5	2676.0	2583.7	2402.2	2242.3	2097.7
7.5°	3377.3	3377.3	3395.7	3398.8	3325.0	3220.4	3045.1	2906.7	2651.4	2405.3	2174.6
10°	3829.4	3832.5	3872.5	3844.8	3746.4	3604.9	3383.4	3208.1	2900.5	2577.5	2248.4
12.5°	4312.3	4315.4	4327.7	4315.4	4198.5	4017.0	3749.4	3518.8	3165.0	2774.4	2349.9
15°	4795.2	4798.3	4813.7	4792.1	4663.0	4450.7	4146.2	3863.2	3444.9	2995.9	2473.0
17.5°	5247.4	5253.5	5265.8	5238.1	5102.8	4850.6	4539.9	4198.5	3743.3	3232.7	2611.4
20°	5653.4	5659.5	5668.8	5631.8	5496.5	5244.3	4909.0	4552.2	4047.8	3475.7	2762.1
22.5°	6062.5	6068.6	6084.0	6034.8	5884.1	5594.9	5265.8	4896.7	4370.8	3743.3	2937.4
25°	6585.4	6591.5	6603.8	6533.1	6327.0	5988.6	5641.1	5262.7	4721.4	4044.7	3152.7
27.5°	7351.2	7345.1	7345.1	7215.9	6862.2	6422.3	6019.4	5634.9	5099.7	4367.7	3389.6
30°	8298.6	8283.2	8274.0	8098.7	7594.2	6911.4	6407.0	5982.5	5462.7	4709.1	3644.9
32.5°	9147.5	9147.5	9129.1	8944.5	8409.3	7569.6	6819.1	6320.8	5813.3	5053.6	3909.4
35°	9648.9	9670.4	9661.2	9522.8	9132.1	8277.1	7375.8	6726.8	6182.4	5413.5	4226.2
37.5°	9716.6	9759.6	9768.8	9685.8	9479.7	8855.3	7994.1	7166.7	6588.4	5801.0	4533.8
40°	9442.8	9535.1	9535.1	9522.8	9449.0	9129.1	8513.9	7677.3	7006.7	6204.0	4844.4
42.5°	9021.4	9116.8	9104.5	9150.6	9132.1	9064.5	8806.1	8154.0	7425.1	6619.2	5127.4
45°	8470.8	8569.3	8544.7	8627.7	8664.6	8738.4	8775.3	8486.2	7837.2	7071.3	5444.2
47.5°	7588.1	7754.2	7791.1	7938.7	8092.5	8323.2	8498.5	8606.2	8221.7	7557.3	5788.7
50°	6283.9	6517.7	6591.5	6902.2	7323.6	7800.3	8083.3	8458.5	8492.4	8055.6	6160.9
52.5°	4499.9	4770.6	4884.4	5395.0	6262.4	7092.9	7603.5	8132.5	8596.9	8532.4	6563.8
55°	2909.7	3140.4	3251.2	3731.0	4884.4	6188.6	7037.5	7711.1	8538.5	8969.1	7025.2
57.5°	1793.2	1925.5	1999.3	2411.5	3472.6	5029.0	6296.2	7323.6	8360.1	9347.5	7505.0
60°	1208.8	1285.7	1322.6	1516.4	2359.2	3758.7	5278.1	6917.5	8126.3	9602.7	7941.8
62.5°	802.8	827.4	864.3	984.3	1556.4	2639.1	4053.9	6191.6	7951.0	9618.1	8264.8
65°	621.3	633.6	649.0	701.3	959.7	1845.5	2851.3	5016.7	7689.6	9292.1	8366.3
67.5°	489.1	501.4	519.8	547.5	695.1	1251.9	1940.8	3675.6	7154.4	8781.5	8200.2
70°	384.5	393.7	406.0	430.6	541.3	907.4	1282.6	2442.2	6074.8	8295.5	7677.3
72.5°	304.5	313.7	326.0	350.6	439.8	664.4	879.7	1522.5	4684.5	7701.9	6671.5
75°	239.9	246.1	255.3	279.9	353.7	516.7	596.7	910.4	3183.5	6616.1	5198.2
77.5°	120.0	147.6	169.2	193.8	258.4	356.8	396.8	504.4	1344.1	3395.7	2479.1
80°	70.7	86.1	92.3	107.7	169.2	215.3	215.3	203.0	424.5	1304.2	1011.9
82.5°	40.0	55.4	58.4	61.5	101.5	123.0	98.4	73.8	86.1	436.8	295.3
85°	12.3	18.5	21.5	24.6	33.8	36.9	33.8	30.8	24.6	43.1	27.7
87.5°	0.0	0.0	0.0	0.0	3.1	6.2	6.2	6.2	9.2	9.2	9.2
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: P841037

CATALOG NUMBER: ARCH4-120-740-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8
2.5°	1993.1	1953.2	1876.3	1805.5	1737.8	1688.6	1642.5	1599.4	1568.7	1544.1	1541.0
5°	2020.8	1940.8	1793.2	1654.8	1528.7	1424.1	1334.9	1264.2	1211.9	1175.0	1171.9
7.5°	2057.7	1934.7	1710.2	1504.1	1316.5	1165.7	1036.6	941.2	873.5	845.9	824.3
10°	2088.5	1928.5	1627.1	1353.4	1107.3	916.6	762.8	667.5	618.2	599.8	590.6
12.5°	2140.8	1934.7	1556.4	1215.0	925.8	701.3	584.4	532.1	510.6	495.2	492.1
15°	2217.7	1962.4	1488.7	1079.6	741.3	566.0	498.3	464.5	442.9	439.8	436.8
17.5°	2294.6	1987.0	1427.2	941.2	615.2	492.1	446.0	418.3	402.9	399.9	399.9
20°	2383.8	2017.7	1359.5	808.9	526.0	442.9	406.0	384.5	366.0	362.9	362.9
22.5°	2488.3	2060.8	1294.9	692.1	467.5	406.0	375.3	350.6	335.3	332.2	332.2
25°	2629.8	2125.4	1242.6	605.9	427.5	375.3	347.6	326.0	313.7	307.6	307.6
27.5°	2786.7	2214.6	1205.7	553.6	399.9	350.6	323.0	304.5	292.2	286.1	286.1
30°	2962.0	2313.0	1181.1	532.1	384.5	329.1	304.5	286.1	270.7	267.6	267.6
32.5°	3155.8	2426.8	1165.7	535.2	381.4	313.7	286.1	267.6	255.3	249.1	249.1
35°	3371.1	2552.9	1156.5	553.6	387.6	301.4	270.7	252.2	239.9	233.8	233.8
37.5°	3611.0	2700.6	1156.5	572.1	402.9	298.4	255.3	236.8	227.6	221.5	221.5
40°	3835.6	2857.4	1168.8	593.6	418.3	298.4	243.0	227.6	215.3	209.2	209.2
42.5°	4010.9	2946.6	1178.0	615.2	427.5	295.3	230.7	215.3	206.1	199.9	199.9
45°	4210.8	3042.0	1159.6	624.4	427.5	289.1	221.5	206.1	196.9	190.7	190.7
47.5°	4432.3	3158.9	1156.5	630.5	418.3	276.8	212.2	196.9	190.7	184.5	184.5
50°	4656.8	3288.1	1162.7	627.5	406.0	258.4	199.9	190.7	181.5	175.3	175.3
52.5°	4912.1	3423.4	1175.0	621.3	378.3	236.8	190.7	181.5	172.2	166.1	163.0
55°	5195.1	3571.0	1199.6	609.0	341.4	215.3	181.5	172.2	159.9	153.8	150.7
57.5°	5521.1	3752.5	1227.3	584.4	301.4	196.9	172.2	159.9	141.5	132.3	129.2
60°	5831.8	3958.6	1258.0	526.0	261.4	178.4	163.0	144.6	126.1	120.0	116.9
62.5°	6124.0	4161.6	1273.4	421.4	221.5	163.0	153.8	132.3	113.8	107.7	104.6
65°	6311.6	4383.1	1239.6	286.1	181.5	150.7	141.5	123.0	104.6	95.4	95.4
67.5°	6323.9	4487.6	1122.7	187.6	147.6	135.3	129.2	110.7	92.3	86.1	83.0
70°	6013.3	4330.8	858.2	147.6	123.0	116.9	116.9	98.4	80.0	73.8	70.7
72.5°	5299.7	3835.6	547.5	120.0	104.6	98.4	98.4	83.0	70.7	61.5	58.4
75°	4183.1	2959.0	292.2	98.4	86.1	83.0	76.9	67.7	58.4	52.3	49.2
77.5°	1922.4	1304.2	135.3	70.7	64.6	64.6	58.4	49.2	46.1	40.0	40.0
80°	759.7	442.9	67.7	46.1	43.1	43.1	43.1	33.8	33.8	27.7	24.6
82.5°	209.2	92.3	33.8	27.7	27.7	27.7	24.6	21.5	21.5	18.5	18.5
85°	21.5	15.4	15.4	15.4	15.4	12.3	12.3	9.2	6.2	6.2	6.2
87.5°	9.2	9.2	9.2	9.2	9.2	6.2	3.1	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)