

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: P841577

Luminaire Tested: **ARCH4-200-722-U-T2R-HSS**

Issue Date: 5/27/2024

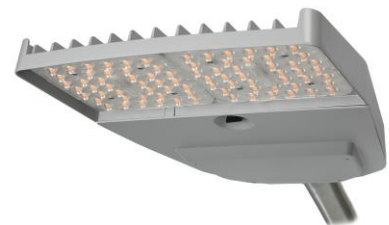
Test Information

Test Method: LM-79-08
Report Number: P841577
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: ARCH4-200-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 800mA 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: 19020 lumens
Efficiency: N/A
Efficacy: 93.4 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): 203.7
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



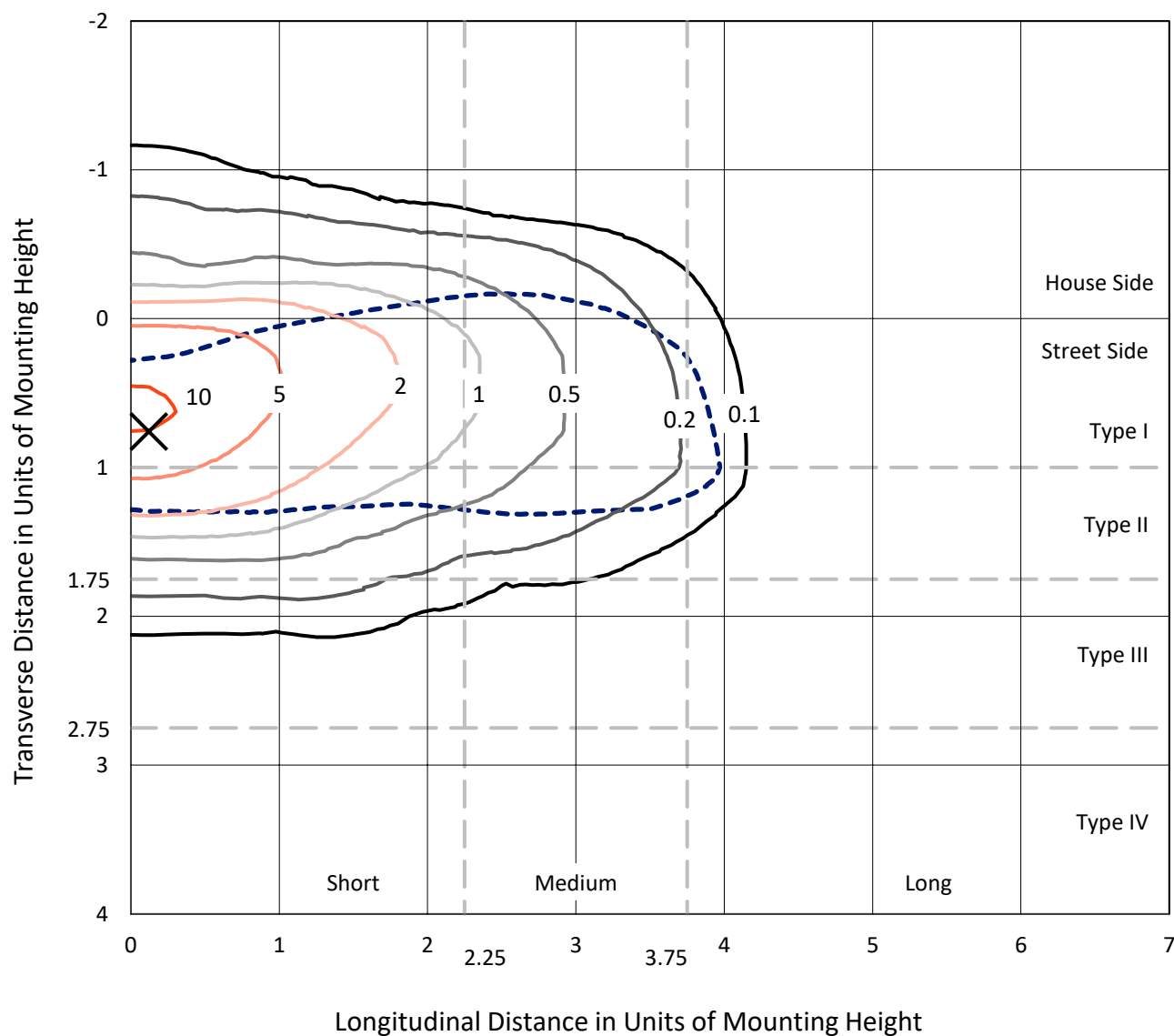
REPORT NUMBER: P841577

CATALOG NUMBER: ARCH4-200-722-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

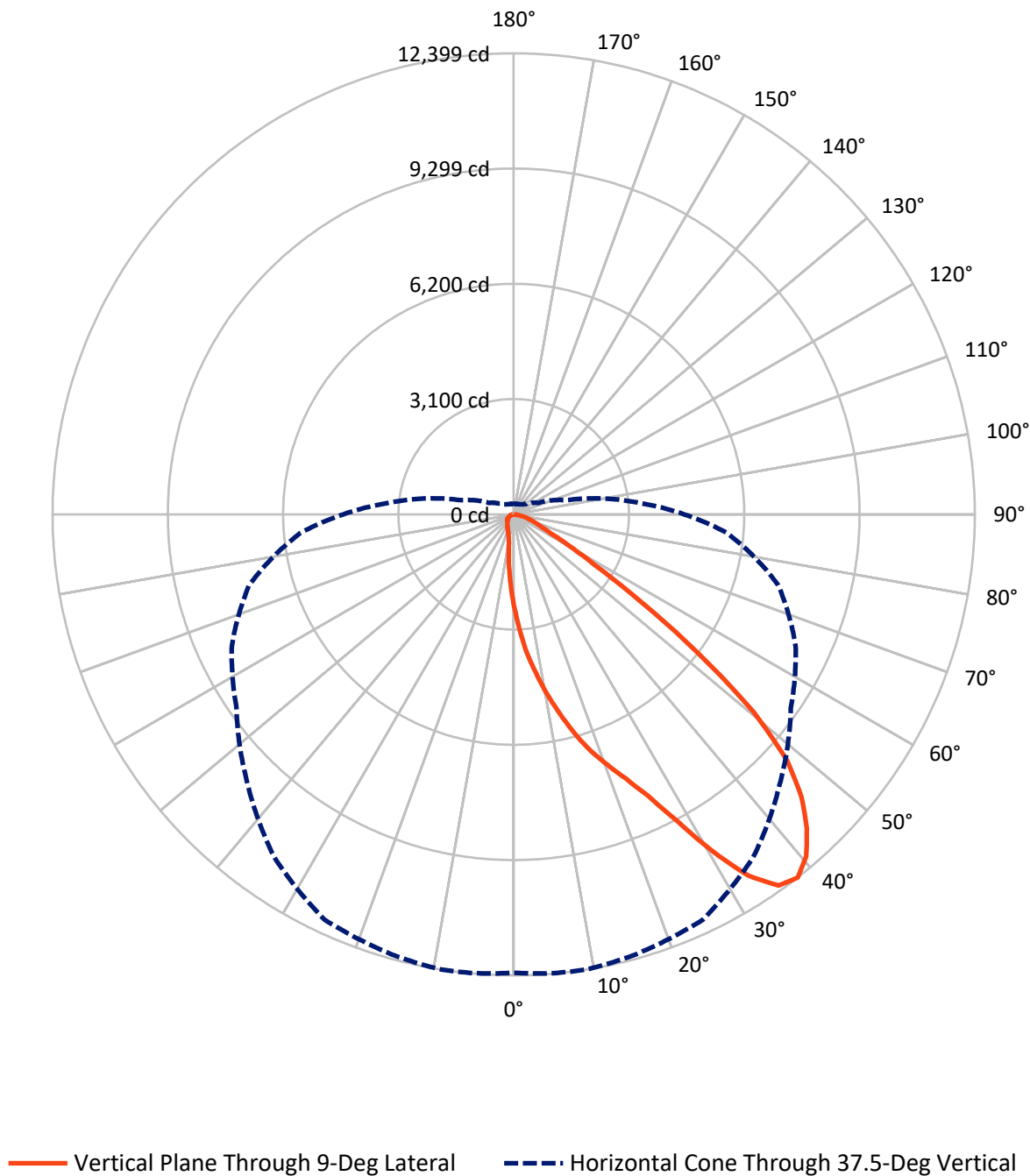


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc

Type II - Short - N/A

REPORT NUMBER: P841577
CATALOG NUMBER: ARCH4-200-722-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P841577

CATALOG NUMBER: ARCH4-200-722-U-T2R-HSS

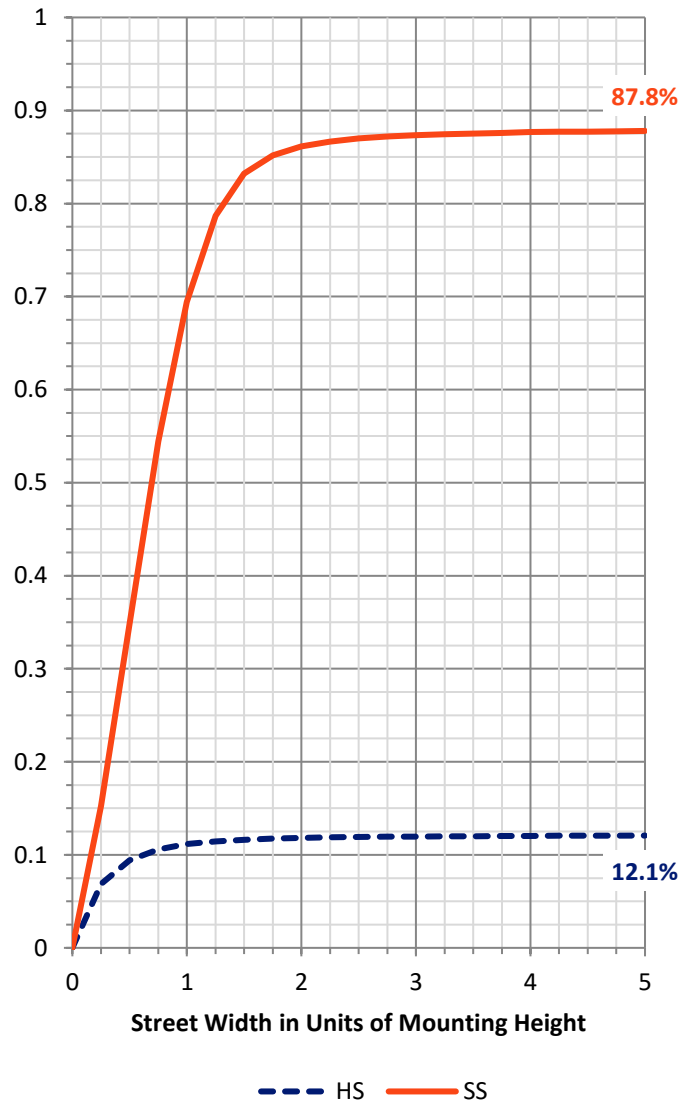
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2313.2	0.0	2313.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	16706.8	0.0	16706.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	19020.0	0.0	19020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.7	1.3
10°-20°	878.4	4.6
20°-30°	1804.8	9.5
30°-40°	3190.2	16.8
40°-50°	4237.9	22.3
50°-60°	4019.3	21.1
60°-70°	3066.4	16.1
70°-80°	1486.6	7.8
80°-90°	83.7	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°	19020.0	100.0
0°-180°	19020.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841577

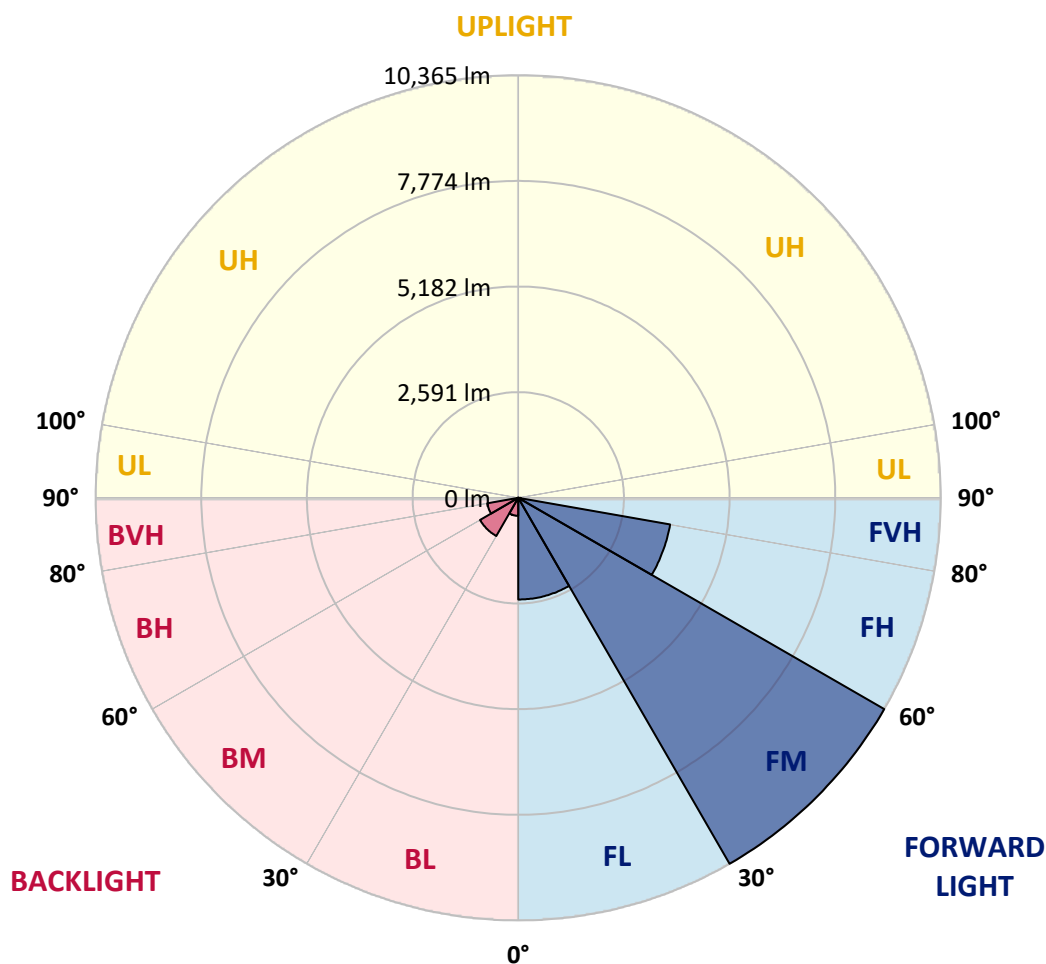
CATALOG NUMBER: ARCH4-200-722-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2494.5	13.1			
FM	(30°-60°)	10365.0	54.5			
FH	(60°-80°)	3781.1	19.9			G2/5000
FVH	(80°-90°)	66.3	0.3			G1/100
BL	(0°-30°)	441.4	2.3	B1/500		
BM	(30°-60°)	1082.4	5.7	B2/2500		
BH	(60°-80°)	771.9	4.1	B2/1000		G2/1000
BVH	(80°-90°)	17.4	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: P841577

CATALOG NUMBER: ARCH4-200-722-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2
2.5°	3115.4	3060.8	3123.2	3115.4	3060.8	3025.6	2916.3	2881.2	2752.4	2658.7	2576.7
5°	3755.7	3701.0	3755.7	3740.1	3662.0	3576.1	3396.5	3279.4	3049.1	2846.1	2662.6
7.5°	4286.7	4286.7	4310.1	4314.0	4220.3	4087.5	3865.0	3689.3	3365.3	3053.0	2760.2
10°	4860.6	4864.5	4915.2	4880.1	4755.1	4575.6	4294.5	4071.9	3681.5	3271.6	2853.9
12.5°	5473.5	5477.4	5493.0	5477.4	5329.0	5098.7	4759.0	4466.2	4017.3	3521.5	2982.7
15°	6086.4	6090.3	6109.9	6082.5	5918.6	5649.2	5262.7	4903.5	4372.5	3802.6	3138.9
17.5°	6660.3	6668.1	6683.7	6648.6	6476.8	6156.7	5762.4	5329.0	4751.2	4103.2	3314.5
20°	7175.7	7183.5	7195.2	7148.3	6976.6	6656.4	6230.9	5778.0	5137.7	4411.6	3505.8
22.5°	7694.9	7702.7	7722.2	7659.8	7468.5	7101.5	6683.7	6215.3	5547.7	4751.2	3728.4
25°	8358.6	8366.4	8382.0	8292.2	8030.6	7601.2	7160.0	6679.8	5992.7	5133.8	4001.7
27.5°	9330.7	9322.9	9322.9	9158.9	8710.0	8151.7	7640.2	7152.2	6472.9	5543.8	4302.3
30°	10533.2	10513.6	10501.9	10279.4	9639.1	8772.4	8132.2	7593.4	6933.6	5977.1	4626.3
32.5°	11610.7	11610.7	11587.2	11353.0	10673.7	9607.9	8655.3	8022.8	7378.7	6414.4	4962.1
35°	12247.0	12274.4	12262.6	12087.0	11591.2	10505.8	9361.9	8538.2	7847.2	6871.1	5364.2
37.5°	12332.9	12387.6	12399.3	12293.9	12032.3	11239.8	10146.6	9096.5	8362.5	7363.1	5754.6
40°	11985.5	12102.6	12102.6	12087.0	11993.3	11587.2	10806.4	9744.5	8893.4	7874.5	6148.9
42.5°	11450.6	11571.6	11556.0	11614.6	11591.2	11505.3	11177.3	10349.7	9424.4	8401.5	6508.1
45°	10751.8	10876.7	10845.5	10950.9	10997.7	11091.4	11138.3	10771.3	9947.5	8975.4	6910.2
47.5°	9631.3	9842.1	9889.0	10076.4	10271.6	10564.4	10786.9	10923.6	10435.5	9592.3	7347.4
50°	7976.0	8272.7	8366.4	8760.7	9295.6	9900.7	10259.9	10736.2	10779.1	10224.7	7819.8
52.5°	5711.6	6055.2	6199.6	6847.7	7948.7	9002.8	9650.8	10322.3	10911.8	10829.9	8331.3
55°	3693.2	3986.0	4126.6	4735.6	6199.6	7855.0	8932.5	9787.5	10837.7	11384.2	8916.9
57.5°	2276.1	2443.9	2537.6	3060.8	4407.7	6383.1	7991.6	9295.6	10611.2	11864.4	9525.9
60°	1534.3	1631.9	1678.7	1924.7	2994.4	4770.8	6699.4	8780.2	10314.5	12188.5	10080.3
62.5°	1019.0	1050.2	1097.0	1249.3	1975.5	3349.7	5145.5	7858.9	10092.0	12208.0	10490.2
65°	788.6	804.2	823.8	890.1	1218.1	2342.4	3619.1	6367.5	9760.1	11794.2	10619.0
67.5°	620.7	636.4	659.8	694.9	882.3	1589.0	2463.5	4665.4	9080.8	11146.1	10408.2
70°	488.0	499.7	515.3	546.6	687.1	1151.7	1628.0	3099.8	7710.5	10529.2	9744.5
72.5°	386.5	398.2	413.8	445.1	558.3	843.3	1116.6	1932.5	5945.9	9775.8	8467.9
75°	304.5	312.3	324.0	355.3	449.0	655.9	757.4	1155.6	4040.7	8397.6	6597.9
77.5°	152.3	187.4	214.7	246.0	327.9	452.9	503.6	640.3	1706.1	4310.1	3146.7
80°	89.8	109.3	117.1	136.6	214.7	273.3	273.3	257.7	538.8	1655.3	1284.4
82.5°	50.8	70.3	74.2	78.1	128.8	156.2	124.9	93.7	109.3	554.4	374.8
85°	15.6	23.4	27.3	31.2	42.9	46.8	42.9	39.0	31.2	54.7	35.1
87.5°	0.0	0.0	0.0	0.0	3.9	7.8	7.8	7.8	11.7	11.7	11.7
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: P841577

CATALOG NUMBER: ARCH4-200-722-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2
2.5°	2529.8	2479.1	2381.5	2291.7	2205.8	2143.3	2084.8	2030.1	1991.1	1959.8	1955.9
5°	2565.0	2463.5	2276.1	2100.4	1940.3	1807.6	1694.4	1604.6	1538.2	1491.4	1487.4
7.5°	2611.8	2455.7	2170.7	1909.1	1670.9	1479.6	1315.7	1194.6	1108.8	1073.6	1046.3
10°	2650.9	2447.8	2065.2	1717.8	1405.5	1163.4	968.2	847.2	784.7	761.3	749.6
12.5°	2717.2	2455.7	1975.5	1542.1	1175.1	890.1	741.8	675.4	648.1	628.6	624.6
15°	2814.8	2490.8	1889.6	1370.3	940.9	718.3	632.5	589.5	562.2	558.3	554.4
17.5°	2912.4	2522.0	1811.5	1194.6	780.8	624.6	566.1	531.0	511.4	507.5	507.5
20°	3025.6	2561.1	1725.6	1026.8	667.6	562.2	515.3	488.0	464.6	460.7	460.7
22.5°	3158.4	2615.7	1643.6	878.4	593.4	515.3	476.3	445.1	425.5	421.6	421.6
25°	3338.0	2697.7	1577.2	769.1	542.7	476.3	441.2	413.8	398.2	390.4	390.4
27.5°	3537.1	2810.9	1530.4	702.7	507.5	445.1	409.9	386.5	370.9	363.1	363.1
30°	3759.6	2935.9	1499.2	675.4	488.0	417.7	386.5	363.1	343.6	339.7	339.7
32.5°	4005.6	3080.3	1479.6	679.3	484.1	398.2	363.1	339.7	324.0	316.2	316.2
35°	4278.8	3240.4	1467.9	702.7	491.9	382.6	343.6	320.1	304.5	296.7	296.7
37.5°	4583.4	3427.8	1467.9	726.2	511.4	378.7	324.0	300.6	288.9	281.1	281.1
40°	4868.4	3626.9	1483.5	753.5	531.0	378.7	308.4	288.9	273.3	265.5	265.5
42.5°	5090.9	3740.1	1495.3	780.8	542.7	374.8	292.8	273.3	261.6	253.8	253.8
45°	5344.7	3861.1	1471.8	792.5	542.7	367.0	281.1	261.6	249.9	242.1	242.1
47.5°	5625.7	4009.5	1467.9	800.3	531.0	351.4	269.4	249.9	242.1	234.2	234.2
50°	5910.7	4173.4	1475.7	796.4	515.3	327.9	253.8	242.1	230.3	222.5	222.5
52.5°	6234.8	4345.2	1491.4	788.6	480.2	300.6	242.1	230.3	218.6	210.8	206.9
55°	6594.0	4532.6	1522.6	773.0	433.4	273.3	230.3	218.6	203.0	195.2	191.3
57.5°	7007.8	4763.0	1557.7	741.8	382.6	249.9	218.6	203.0	179.6	167.9	164.0
60°	7402.1	5024.5	1596.8	667.6	331.8	226.4	206.9	183.5	160.1	152.3	148.4
62.5°	7773.0	5282.2	1616.3	534.9	281.1	206.9	195.2	167.9	144.5	136.6	132.7
65°	8011.1	5563.3	1573.3	363.1	230.3	191.3	179.6	156.2	132.7	121.0	121.0
67.5°	8026.7	5696.0	1425.0	238.1	187.4	171.8	164.0	140.5	117.1	109.3	105.4
70°	7632.4	5496.9	1089.2	187.4	156.2	148.4	148.4	124.9	101.5	93.7	89.8
72.5°	6726.7	4868.4	694.9	152.3	132.7	124.9	124.9	105.4	89.8	78.1	74.2
75°	5309.5	3755.7	370.9	124.9	109.3	105.4	97.6	85.9	74.2	66.4	62.5
77.5°	2440.0	1655.3	171.8	89.8	82.0	82.0	74.2	62.5	58.6	50.8	50.8
80°	964.3	562.2	85.9	58.6	54.7	54.7	54.7	42.9	42.9	35.1	31.2
82.5°	265.5	117.1	42.9	35.1	35.1	35.1	31.2	27.3	27.3	23.4	23.4
85°	27.3	19.5	19.5	19.5	19.5	15.6	15.6	11.7	7.8	7.8	7.8
87.5°	11.7	11.7	11.7	11.7	11.7	7.8	3.9	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)