

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: P841583

Luminaire Tested: **ARCH4-200-722-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-200-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18908 lumens
Efficiency: N/A
Efficacy: 92.8 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): 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

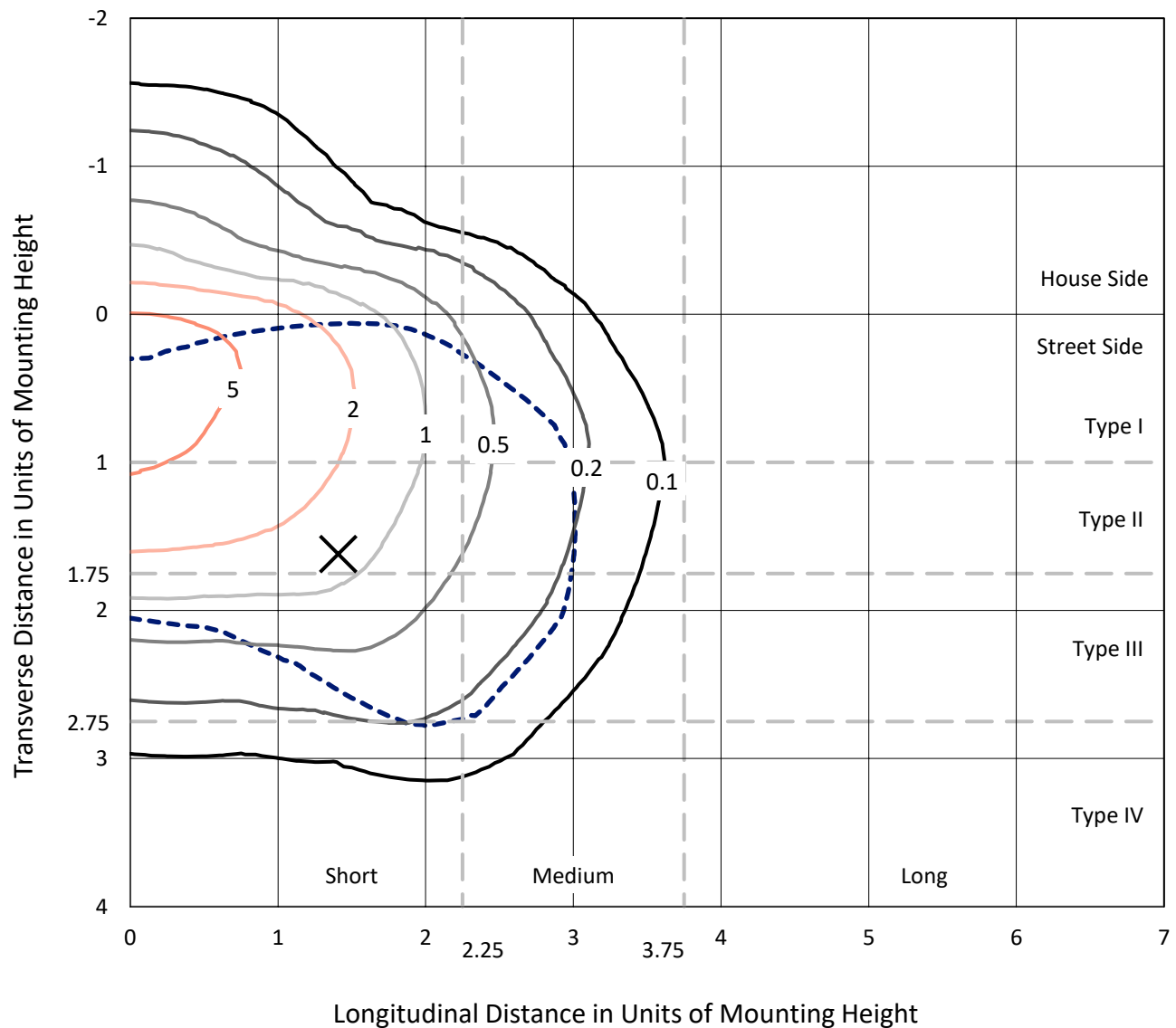


REPORT NUMBER: P841583

CATALOG NUMBER: ARCH4-200-722-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

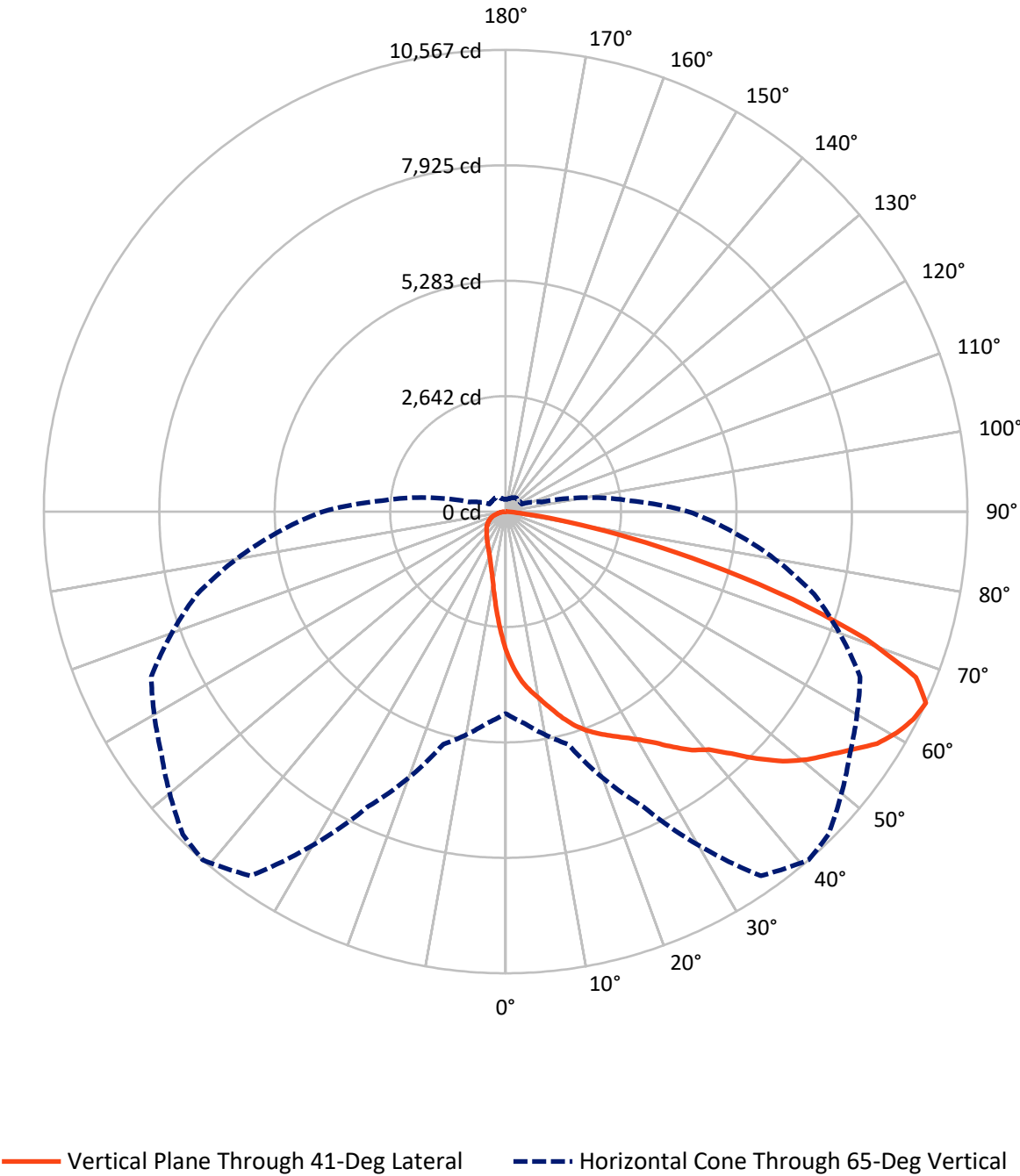
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type III - Short - N/A

REPORT NUMBER: P841583
CATALOG NUMBER: ARCH4-200-722-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P841583

CATALOG NUMBER: ARCH4-200-722-U-T4W-HSS

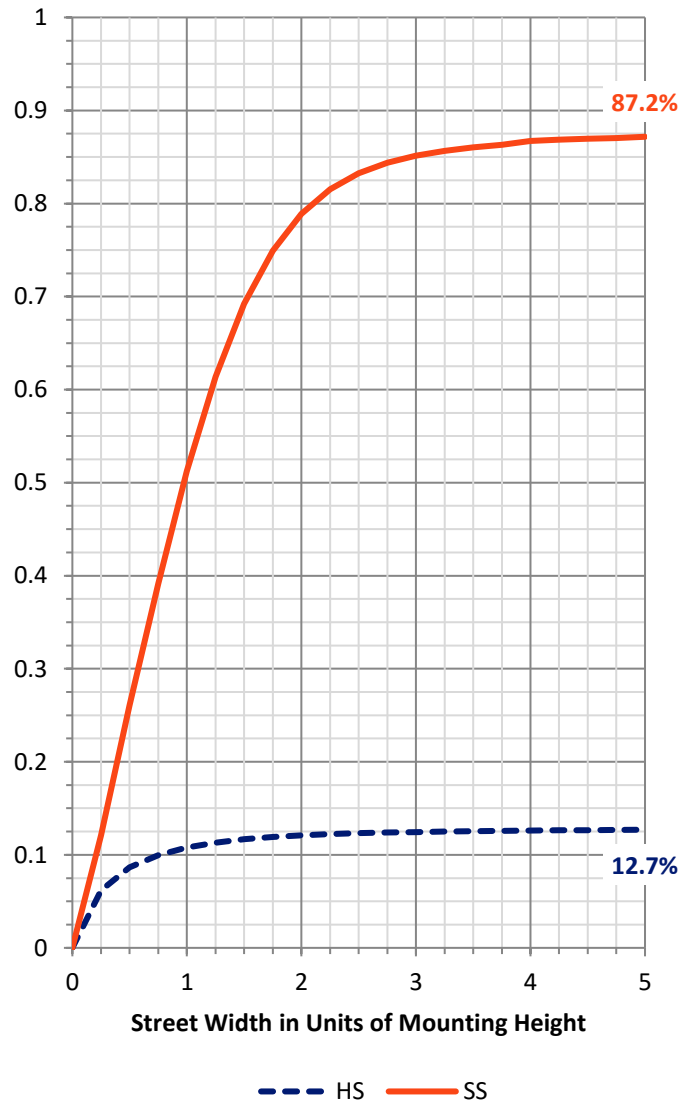
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2427.5	0.0	2427.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	16480.5	0.0	16480.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	18908.0	0.0	18908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.2	1.6
10°-20°	900.1	4.8
20°-30°	1548.6	8.2
30°-40°	2348.6	12.4
40°-50°	3440.8	18.2
50°-60°	4345.0	23.0
60°-70°	4074.2	21.5
70°-80°	1815.9	9.6
80°-90°	134.5	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°	18908.0	100.0
0°-180°	18908.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841583

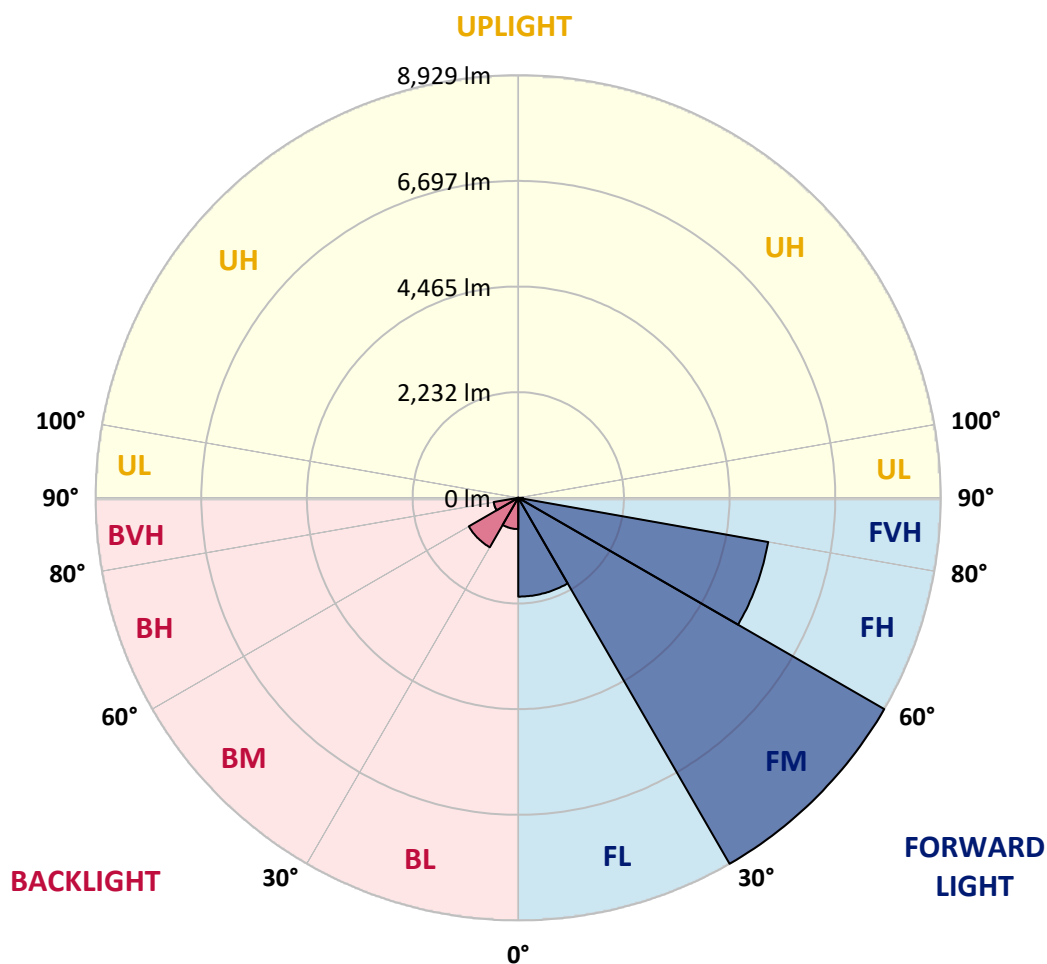
CATALOG NUMBER: ARCH4-200-722-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2088.1	11.0			
FM	(30°-60°)	8929.1	47.2			
FH	(60°-80°)	5362.8	28.4			G3/7500
FVH	(80°-90°)	100.5	0.5			G2/225
BL	(0°-30°)	660.7	3.5	B2/1000		
BM	(30°-60°)	1205.4	6.4	B2/2500		
BH	(60°-80°)	527.3	2.8	B2/1000		G2/1000
BVH	(80°-90°)	34.1	0.2			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: P841583

CATALOG NUMBER: ARCH4-200-722-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	3221.8	3221.8	3221.8	3221.8	3221.8	3221.8	3221.8	3221.8	3221.8	3221.8	3221.8
2.5°	3716.3	3704.3	3696.3	3652.5	3652.5	3592.7	3596.6	3540.8	3473.0	3365.4	3249.7
5°	4067.2	4051.2	4031.3	3987.4	3971.5	3911.6	3903.7	3823.9	3708.3	3520.9	3313.5
7.5°	4374.2	4358.2	4330.3	4266.5	4222.7	4150.9	4131.0	4027.3	3899.7	3668.4	3377.3
10°	4653.3	4641.3	4605.5	4525.7	4465.9	4378.2	4342.3	4202.7	4043.2	3788.0	3429.2
12.5°	4936.4	4920.5	4872.6	4804.8	4733.1	4629.4	4585.5	4406.1	4202.7	3919.6	3504.9
15°	5199.6	5175.7	5139.8	5068.0	5004.2	4904.5	4856.7	4645.3	4398.1	4067.2	3604.6
17.5°	5371.0	5351.1	5319.2	5279.3	5227.5	5151.7	5103.9	4896.5	4593.5	4210.7	3708.3
20°	5474.7	5466.7	5454.8	5430.8	5406.9	5355.1	5319.2	5123.8	4804.8	4350.3	3808.0
22.5°	5554.5	5546.5	5542.5	5542.5	5546.5	5526.5	5502.6	5335.1	5008.2	4497.8	3899.7
25°	5678.1	5674.1	5666.1	5658.1	5686.0	5690.0	5682.1	5566.4	5263.4	4693.2	4015.3
27.5°	5849.5	5837.6	5821.6	5813.6	5841.6	5861.5	5877.4	5797.7	5534.5	4892.5	4146.9
30°	6112.7	6076.8	6036.9	6009.0	6029.0	6060.9	6096.7	6048.9	5813.6	5139.8	4282.5
32.5°	6423.7	6379.9	6288.1	6236.3	6288.1	6312.1	6340.0	6316.1	6104.7	5406.9	4418.0
35°	6802.5	6750.7	6655.0	6579.2	6670.9	6619.1	6607.1	6583.2	6379.9	5670.1	4569.6
37.5°	7432.5	7356.8	7205.2	7037.8	7037.8	6926.1	6882.3	6810.5	6627.1	5905.3	4717.1
40°	8162.2	8062.5	7867.2	7619.9	7392.7	7161.4	7133.5	7081.6	6918.2	6176.5	4884.6
42.5°	8963.7	8772.3	8501.2	8202.1	7835.3	7572.1	7508.3	7360.8	7201.3	6451.6	5052.0
45°	9852.9	9454.1	9059.4	8907.9	8301.8	8062.5	7942.9	7675.8	7496.3	6738.7	5227.5
47.5°	9996.4	9685.4	9422.2	9398.3	8736.4	8537.0	8401.5	8018.7	7815.3	7045.7	5410.9
50°	9916.7	9729.3	9757.2	9661.5	9055.4	8923.8	8820.1	8385.5	8130.3	7340.8	5578.4
52.5°	9581.7	9685.4	9844.9	9669.5	9358.4	9250.8	9198.9	8780.3	8425.4	7612.0	5729.9
55°	9183.0	9254.8	9597.7	9813.0	9709.3	9613.6	9565.8	9238.8	8716.5	7839.2	5869.5
57.5°	8600.8	8568.9	8947.7	9789.1	10076.2	10020.4	9968.5	9689.4	8987.6	8002.7	5957.2
60°	7727.6	7659.8	8138.3	9310.6	10195.8	10283.5	10259.6	9988.5	9195.0	7998.7	5921.3
62.5°	6216.4	6383.8	7045.7	8529.1	10247.6	10470.9	10427.1	10012.4	9262.7	7767.5	5694.0
65°	4621.4	4860.6	5510.6	7452.5	10175.9	10566.6	10447.0	9621.6	8947.7	7308.9	5195.6
67.5°	3329.5	3540.8	4015.3	6132.6	9486.0	10128.0	9988.5	8983.6	8222.0	6659.0	4505.8
70°	2276.8	2428.3	2751.3	4465.9	8098.4	8756.3	8668.6	8030.6	7077.6	5885.4	3660.4
72.5°	1606.9	1670.7	1878.1	2946.7	6152.6	6870.3	6766.6	6607.1	5686.0	4892.5	2847.0
75°	1204.2	1244.1	1355.7	1906.0	4150.9	4761.0	4665.3	4757.0	4246.6	3704.3	2073.5
77.5°	454.6	494.4	769.6	1216.2	2456.2	2922.8	2827.1	2882.9	2360.5	1870.1	1032.7
80°	123.6	131.6	255.2	578.2	1116.5	1455.4	1323.8	1136.4	877.2	861.3	546.3
82.5°	51.8	59.8	115.6	311.0	398.7	398.7	334.9	414.7	334.9	402.7	263.2
85°	19.9	23.9	27.9	79.7	51.8	55.8	59.8	79.7	67.8	83.7	59.8
87.5°	0.0	0.0	0.0	4.0	4.0	8.0	4.0	8.0	12.0	12.0	12.0
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: P841583

CATALOG NUMBER: ARCH4-200-722-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3221.8	3221.8	3221.8	3221.8	3221.8	3221.8	3221.8	3221.8	3221.8	3221.8	3221.8
2.5°	3201.9	3158.0	3094.2	2990.6	2882.9	2823.1	2747.3	2735.4	2655.6	2647.6	2615.7
5°	3221.8	3130.1	2966.6	2767.3	2571.9	2420.4	2308.7	2248.9	2133.3	2133.3	2101.4
7.5°	3237.8	3094.2	2831.1	2536.0	2268.8	2065.5	1914.0	1850.2	1746.5	1738.5	1714.6
10°	3241.8	3050.4	2683.5	2300.7	1973.8	1766.4	1618.9	1547.1	1455.4	1447.4	1431.5
12.5°	3273.7	3026.4	2551.9	2097.4	1762.4	1539.1	1395.6	1335.8	1264.0	1256.0	1240.1
15°	3325.5	3026.4	2440.3	1925.9	1575.0	1367.7	1244.1	1188.2	1136.4	1128.4	1120.5
17.5°	3377.3	3018.5	2328.6	1766.4	1419.5	1232.1	1124.4	1080.6	1040.7	1036.7	1028.8
20°	3425.2	3014.5	2217.0	1630.8	1299.9	1120.5	1036.7	996.9	965.0	965.0	961.0
22.5°	3473.0	3006.5	2109.3	1503.3	1196.2	1036.7	965.0	921.1	897.2	897.2	893.2
25°	3544.8	3006.5	2009.7	1395.6	1112.5	972.9	901.2	869.3	849.3	845.3	845.3
27.5°	3628.5	3030.4	1921.9	1299.9	1040.7	909.1	853.3	821.4	797.5	789.5	793.5
30°	3720.3	3050.4	1842.2	1216.2	972.9	861.3	801.5	769.6	745.6	737.7	741.7
32.5°	3812.0	3074.3	1770.4	1140.4	905.1	817.4	757.6	721.7	697.8	693.8	693.8
35°	3911.6	3098.2	1698.6	1076.6	849.3	773.6	717.7	677.9	661.9	653.9	657.9
37.5°	4011.3	3138.1	1630.8	1016.8	809.4	733.7	681.8	642.0	630.0	626.0	626.0
40°	4131.0	3197.9	1602.9	976.9	773.6	697.8	653.9	614.1	602.1	602.1	602.1
42.5°	4230.6	3245.7	1579.0	933.1	745.6	665.9	626.0	594.1	586.1	582.2	586.1
45°	4330.3	3289.6	1547.1	893.2	709.8	634.0	602.1	570.2	562.2	562.2	562.2
47.5°	4430.0	3313.5	1503.3	853.3	677.9	606.1	578.2	550.3	542.3	542.3	542.3
50°	4509.8	3333.5	1439.5	809.4	642.0	582.2	554.2	526.3	518.4	518.4	518.4
52.5°	4589.5	3337.5	1371.7	757.6	606.1	554.2	530.3	502.4	494.4	490.5	490.5
55°	4661.3	3333.5	1291.9	697.8	566.2	522.4	502.4	478.5	462.5	446.6	454.6
57.5°	4713.1	3329.5	1200.2	638.0	526.3	490.5	482.5	450.6	418.7	378.8	386.8
60°	4693.2	3285.6	1100.5	562.2	482.5	458.6	458.6	414.7	358.9	338.9	342.9
62.5°	4565.6	3162.0	996.9	482.5	438.6	426.7	422.7	374.8	331.0	311.0	315.0
65°	4182.8	2851.0	845.3	410.7	394.8	390.8	390.8	346.9	307.0	283.1	287.1
67.5°	3600.6	2392.4	689.8	346.9	350.9	358.9	358.9	319.0	279.1	255.2	259.2
70°	2886.9	1870.1	550.3	299.1	303.0	315.0	323.0	287.1	251.2	227.3	227.3
72.5°	2173.1	1419.5	442.6	251.2	271.1	271.1	283.1	255.2	219.3	195.4	199.4
75°	1575.0	1016.8	350.9	211.3	235.3	231.3	231.3	215.3	187.4	171.5	171.5
77.5°	745.6	534.3	279.1	151.5	183.4	179.4	183.4	171.5	159.5	143.5	147.5
80°	366.8	263.2	179.4	107.7	127.6	131.6	143.5	135.6	131.6	119.6	119.6
82.5°	175.4	103.7	83.7	75.8	87.7	91.7	99.7	99.7	103.7	95.7	95.7
85°	47.8	27.9	35.9	47.8	55.8	59.8	67.8	71.8	71.8	67.8	71.8
87.5°	12.0	12.0	15.9	23.9	27.9	31.9	35.9	35.9	15.9	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)