

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: P841793

Luminaire Tested: **ARCH4-230-722-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841793
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: ARCH4-230-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 905mA 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: 21090 lumens
Efficiency: N/A
Efficacy: 91.2 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): 231.2
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



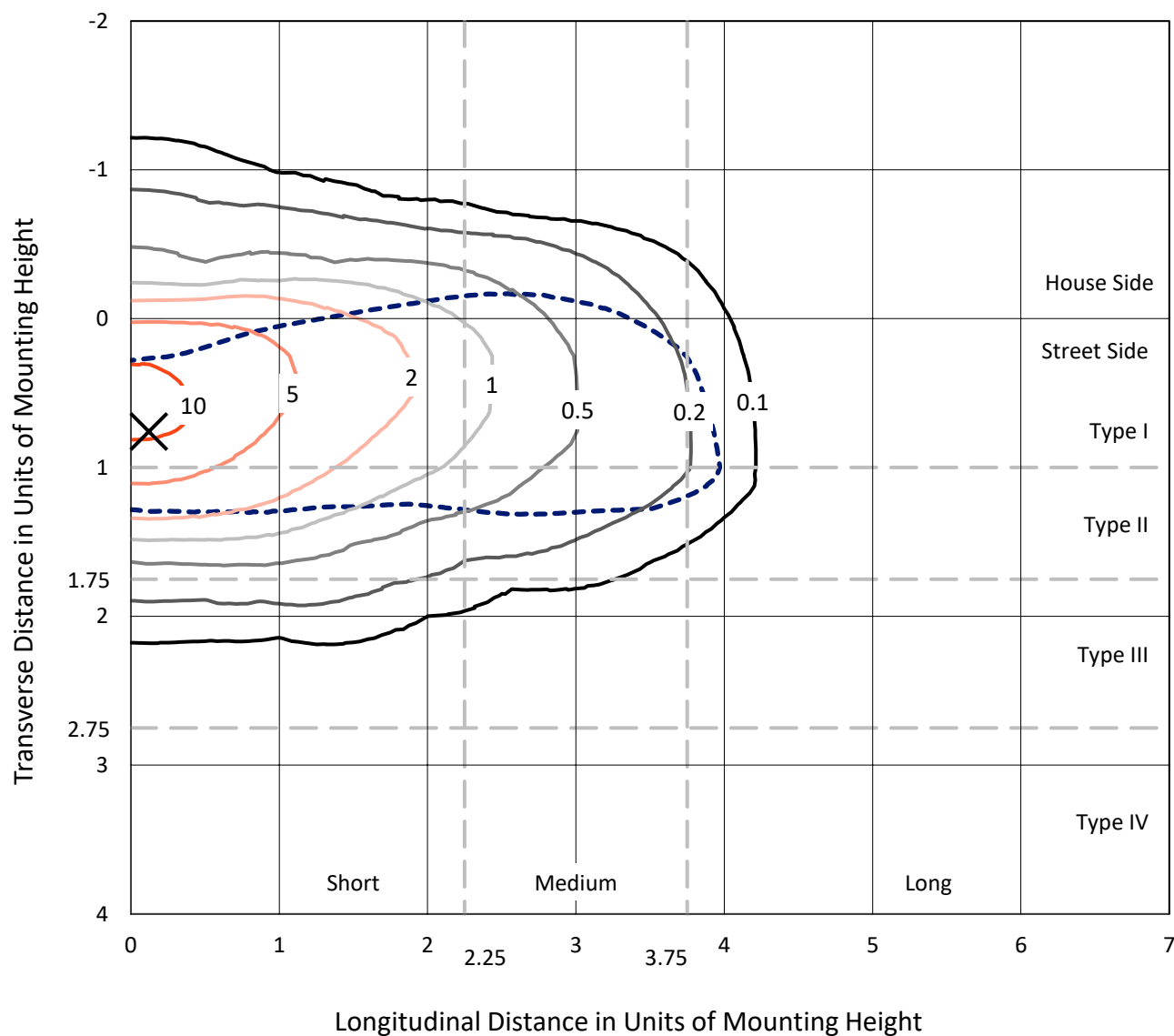
REPORT NUMBER: P841793

CATALOG NUMBER: ARCH4-230-722-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

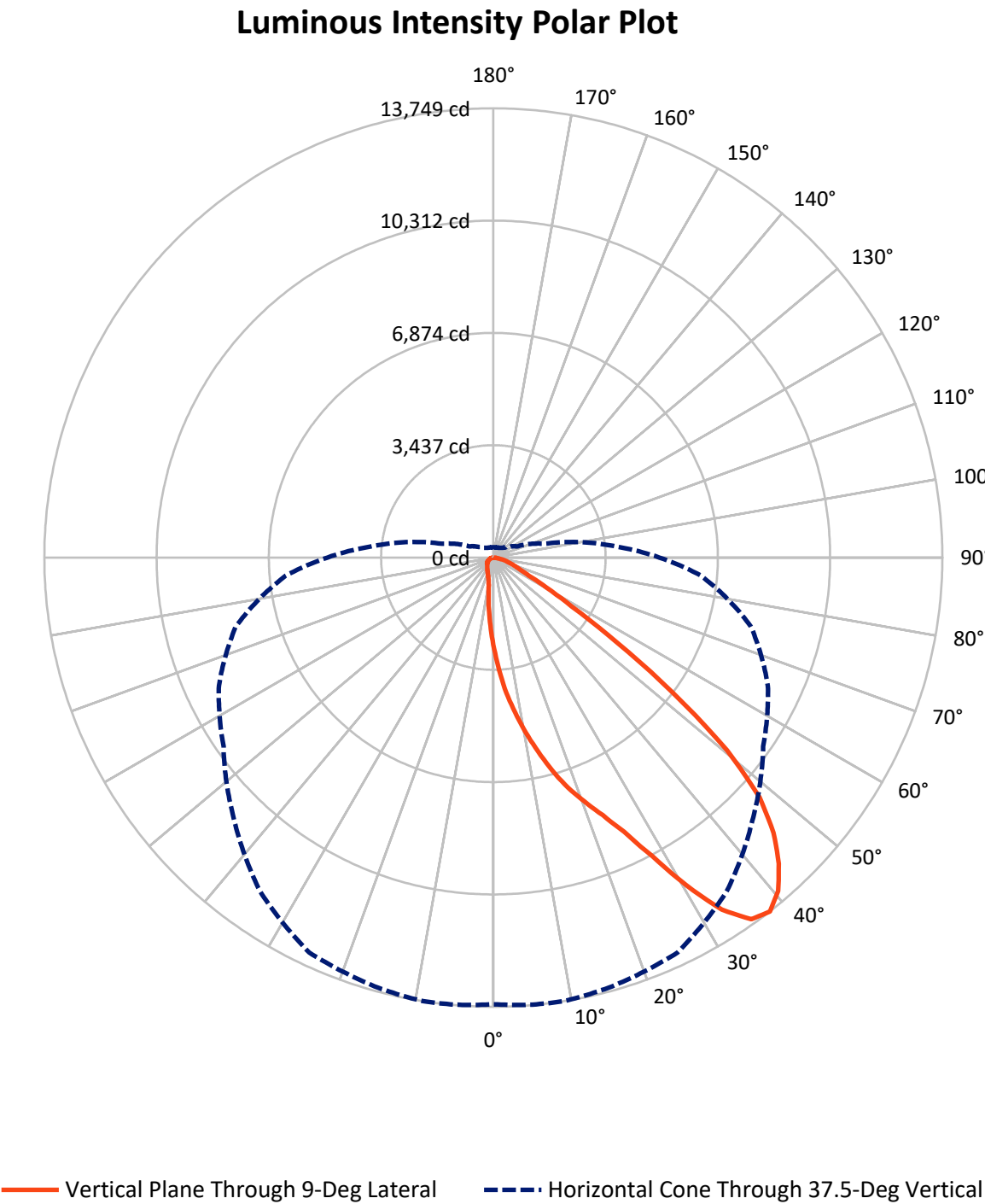
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc

Type II - Short - N/A

REPORT NUMBER: P841793
CATALOG NUMBER: ARCH4-230-722-U-T2R-HSS



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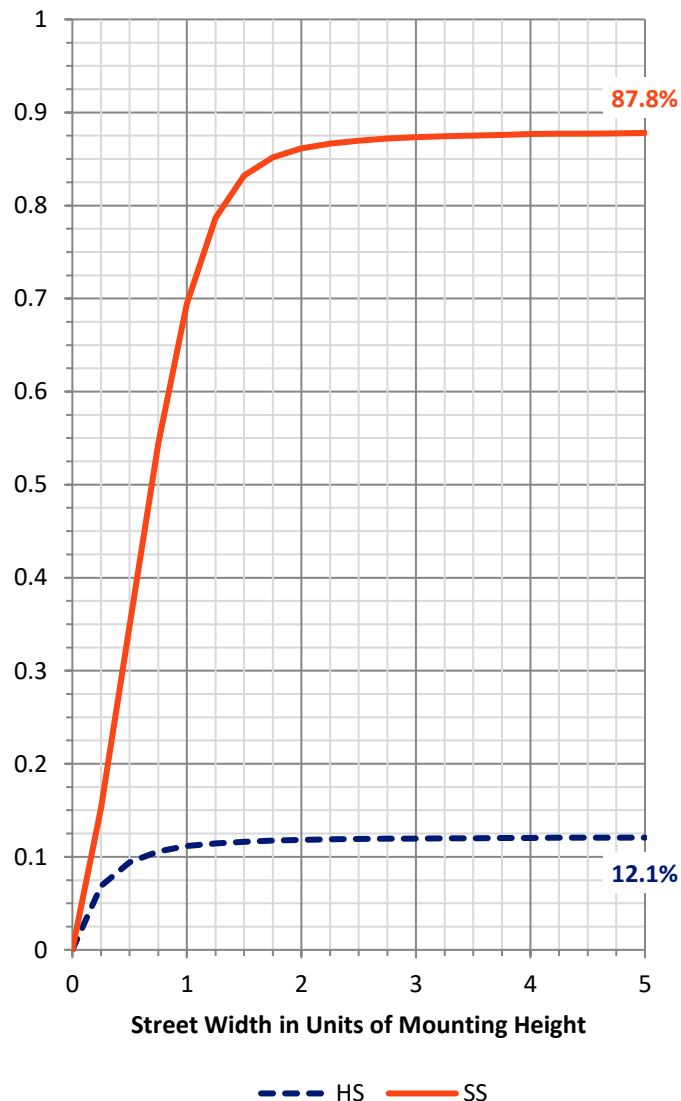
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2564.9	0.0	2564.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	18525.1	0.0	18525.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	21090.0	0.0	21090.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.2	1.3
10°-20°	974.0	4.6
20°-30°	2001.3	9.5
30°-40°	3537.4	16.8
40°-50°	4699.1	22.3
50°-60°	4456.8	21.1
60°-70°	3400.2	16.1
70°-80°	1648.4	7.8
80°-90°	92.8	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°	21090.0	100.0
0°-180°	21090.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841793

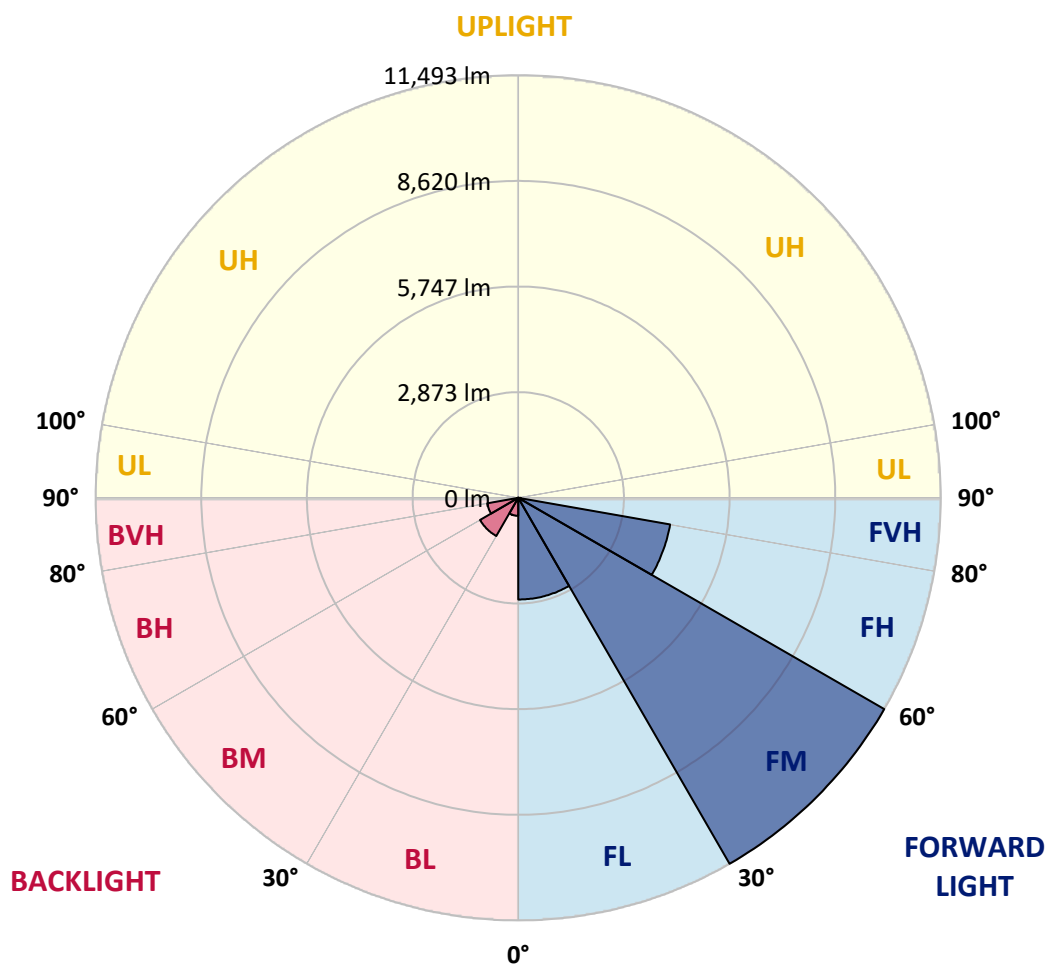
CATALOG NUMBER: ARCH4-230-722-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2766.0	13.1			
FM	(30°-60°)	11493.0	54.5			
FH	(60°-80°)	4192.6	19.9			G2/5000
FVH	(80°-90°)	73.5	0.3			G1/100
BL	(0°-30°)	489.5	2.3	B1/500		
BM	(30°-60°)	1200.2	5.7	B2/2500		
BH	(60°-80°)	855.9	4.1	B2/1000		G2/1000
BVH	(80°-90°)	19.3	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: P841793

CATALOG NUMBER: ARCH4-230-722-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8
2.5°	3454.5	3393.9	3463.2	3454.5	3393.9	3354.9	3233.7	3194.8	3051.9	2948.0	2857.1
5°	4164.4	4103.8	4164.4	4147.1	4060.6	3965.3	3766.2	3636.3	3380.9	3155.8	2952.3
7.5°	4753.2	4753.2	4779.2	4783.5	4679.6	4532.4	4285.7	4090.9	3731.6	3385.2	3060.6
10°	5389.5	5393.9	5450.1	5411.2	5272.7	5073.5	4761.8	4515.1	4082.2	3627.7	3164.5
12.5°	6069.2	6073.5	6090.8	6073.5	5909.0	5653.6	5277.0	4952.3	4454.5	3904.7	3307.3
15°	6748.8	6753.2	6774.8	6744.5	6562.7	6264.0	5835.4	5437.2	4848.4	4216.4	3480.5
17.5°	7385.2	7393.8	7411.2	7372.2	7181.7	6826.8	6389.5	5909.0	5268.3	4549.7	3675.3
20°	7956.6	7965.3	7978.3	7926.3	7735.8	7380.9	6909.0	6406.8	5696.9	4891.7	3887.4
22.5°	8532.4	8541.0	8562.7	8493.4	8281.3	7874.4	7411.2	6891.7	6151.4	5268.3	4134.1
25°	9268.3	9276.9	9294.3	9194.7	8904.6	8428.5	7939.3	7406.8	6644.9	5692.6	4437.2
27.5°	10346.2	10337.5	10337.5	10155.7	9657.9	9038.8	8471.8	7930.6	7177.4	6147.1	4770.5
30°	11679.5	11657.9	11644.9	11398.1	10688.2	9727.1	9017.2	8419.8	7688.2	6627.6	5129.8
32.5°	12874.3	12874.3	12848.3	12588.6	11835.3	10653.5	9597.3	8896.0	8181.7	7112.5	5502.1
35°	13579.9	13610.2	13597.2	13402.4	12852.6	11649.2	10380.8	9467.4	8701.2	7618.9	5948.0
37.5°	13675.1	13735.8	13748.7	13631.9	13341.8	12463.0	11250.9	10086.4	9272.6	8164.4	6380.9
40°	13289.9	13419.7	13419.7	13402.4	13298.5	12848.3	11982.5	10805.1	9861.3	8731.5	6818.1
42.5°	12696.8	12831.0	12813.7	12878.6	12852.6	12757.4	12393.8	11476.0	10450.1	9315.9	7216.4
45°	11921.9	12060.5	12025.8	12142.7	12194.6	12298.5	12350.5	11943.6	11030.2	9952.3	7662.2
47.5°	10679.5	10913.3	10965.2	11173.0	11389.5	11714.1	11960.9	12112.4	11571.3	10636.2	8147.1
50°	8844.0	9173.0	9276.9	9714.2	10307.2	10978.2	11376.5	11904.6	11952.2	11337.5	8670.9
52.5°	6333.3	6714.2	6874.4	7593.0	8813.7	9982.6	10701.2	11445.7	12099.4	12008.5	9238.0
55°	4095.2	4419.9	4575.7	5251.0	6874.4	8709.8	9904.6	10852.7	12017.2	12623.2	9887.3
57.5°	2523.8	2709.9	2813.8	3393.9	4887.4	7077.8	8861.4	10307.2	11766.1	13155.7	10562.6
60°	1701.3	1809.5	1861.4	2134.2	3320.3	5290.0	7428.5	9735.8	11437.1	13515.0	11177.3
62.5°	1129.9	1164.5	1216.4	1385.3	2190.4	3714.2	5705.6	8714.2	11190.3	13536.6	11631.9
65°	874.4	891.8	913.4	987.0	1350.6	2597.4	4012.9	7060.5	10822.4	13077.8	11774.7
67.5°	688.3	705.6	731.6	770.6	978.3	1761.9	2731.6	5173.1	10069.1	12359.1	11541.0
70°	541.1	554.1	571.4	606.1	761.9	1277.0	1805.2	3437.2	8549.7	11675.2	10805.1
72.5°	428.6	441.6	458.9	493.5	619.0	935.1	1238.1	2142.8	6593.0	10839.7	9389.5
75°	337.7	346.3	359.3	393.9	497.8	727.3	839.8	1281.4	4480.5	9311.6	7315.9
77.5°	168.8	207.8	238.1	272.7	363.6	502.2	558.4	709.9	1891.8	4779.2	3489.1
80°	99.6	121.2	129.9	151.5	238.1	303.0	303.0	285.7	597.4	1835.5	1424.2
82.5°	56.3	77.9	82.3	86.6	142.9	173.2	138.5	103.9	121.2	614.7	415.6
85°	17.3	26.0	30.3	34.6	47.6	51.9	47.6	43.3	34.6	60.6	39.0
87.5°	0.0	0.0	0.0	0.0	4.3	8.7	8.7	8.7	13.0	13.0	13.0
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: P841793

CATALOG NUMBER: ARCH4-230-722-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8
2.5°	2805.2	2748.9	2640.7	2541.1	2445.9	2376.6	2311.7	2251.1	2207.8	2173.1	2168.8
5°	2844.1	2731.6	2523.8	2329.0	2151.5	2004.3	1878.8	1779.2	1705.6	1653.7	1649.3
7.5°	2896.1	2722.9	2406.9	2116.9	1852.8	1640.7	1458.9	1324.7	1229.4	1190.5	1160.2
10°	2939.4	2714.3	2290.0	1904.7	1558.4	1290.0	1073.6	939.4	870.1	844.1	831.2
12.5°	3012.9	2722.9	2190.4	1709.9	1303.0	987.0	822.5	748.9	718.6	697.0	692.6
15°	3121.2	2761.9	2095.2	1519.5	1043.3	796.5	701.3	653.7	623.4	619.0	614.7
17.5°	3229.4	2796.5	2008.6	1324.7	865.8	692.6	627.7	588.7	567.1	562.8	562.8
20°	3354.9	2839.8	1913.4	1138.5	740.3	623.4	571.4	541.1	515.1	510.8	510.8
22.5°	3502.1	2900.4	1822.5	974.0	658.0	571.4	528.1	493.5	471.9	467.5	467.5
25°	3701.3	2991.3	1748.9	852.8	601.7	528.1	489.2	458.9	441.6	432.9	432.9
27.5°	3922.0	3116.8	1696.9	779.2	562.8	493.5	454.5	428.6	411.3	402.6	402.6
30°	4168.8	3255.4	1662.3	748.9	541.1	463.2	428.6	402.6	380.9	376.6	376.6
32.5°	4441.5	3415.5	1640.7	753.2	536.8	441.6	402.6	376.6	359.3	350.6	350.6
35°	4744.5	3593.0	1627.7	779.2	545.4	424.2	380.9	355.0	337.7	329.0	329.0
37.5°	5082.2	3800.8	1627.7	805.2	567.1	419.9	359.3	333.3	320.3	311.7	311.7
40°	5398.2	4021.6	1645.0	835.5	588.7	419.9	342.0	320.3	303.0	294.4	294.4
42.5°	5644.9	4147.1	1658.0	865.8	601.7	415.6	324.7	303.0	290.0	281.4	281.4
45°	5926.3	4281.3	1632.0	878.8	601.7	406.9	311.7	290.0	277.1	268.4	268.4
47.5°	6238.0	4445.8	1627.7	887.4	588.7	389.6	298.7	277.1	268.4	259.7	259.7
50°	6554.0	4627.6	1636.3	883.1	571.4	363.6	281.4	268.4	255.4	246.8	246.8
52.5°	6913.3	4818.1	1653.7	874.4	532.5	333.3	268.4	255.4	242.4	233.8	229.4
55°	7311.6	5025.9	1688.3	857.1	480.5	303.0	255.4	242.4	225.1	216.4	212.1
57.5°	7770.5	5281.3	1727.3	822.5	424.2	277.1	242.4	225.1	199.1	186.1	181.8
60°	8207.7	5571.4	1770.5	740.3	368.0	251.1	229.4	203.5	177.5	168.8	164.5
62.5°	8618.9	5857.1	1792.2	593.1	311.7	229.4	216.4	186.1	160.2	151.5	147.2
65°	8883.0	6168.8	1744.6	402.6	255.4	212.1	199.1	173.2	147.2	134.2	134.2
67.5°	8900.3	6315.9	1580.1	264.1	207.8	190.5	181.8	155.8	129.9	121.2	116.9
70°	8463.1	6095.2	1207.8	207.8	173.2	164.5	164.5	138.5	112.6	103.9	99.6
72.5°	7458.8	5398.2	770.6	168.8	147.2	138.5	138.5	116.9	99.6	86.6	82.3
75°	5887.4	4164.4	411.3	138.5	121.2	116.9	108.2	95.2	82.3	73.6	69.3
77.5°	2705.6	1835.5	190.5	99.6	90.9	90.9	82.3	69.3	64.9	56.3	56.3
80°	1069.3	623.4	95.2	64.9	60.6	60.6	60.6	47.6	47.6	39.0	34.6
82.5°	294.4	129.9	47.6	39.0	39.0	39.0	34.6	30.3	30.3	26.0	26.0
85°	30.3	21.6	21.6	21.6	21.6	17.3	17.3	13.0	8.7	8.7	8.7
87.5°	13.0	13.0	13.0	13.0	13.0	8.7	4.3	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)