

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: P841529

Luminaire Tested: **ARCH4-190-730-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841529
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: ARCH4-190-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1530mA 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: 20598 lumens
Efficiency: N/A
Efficacy: 108.4 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

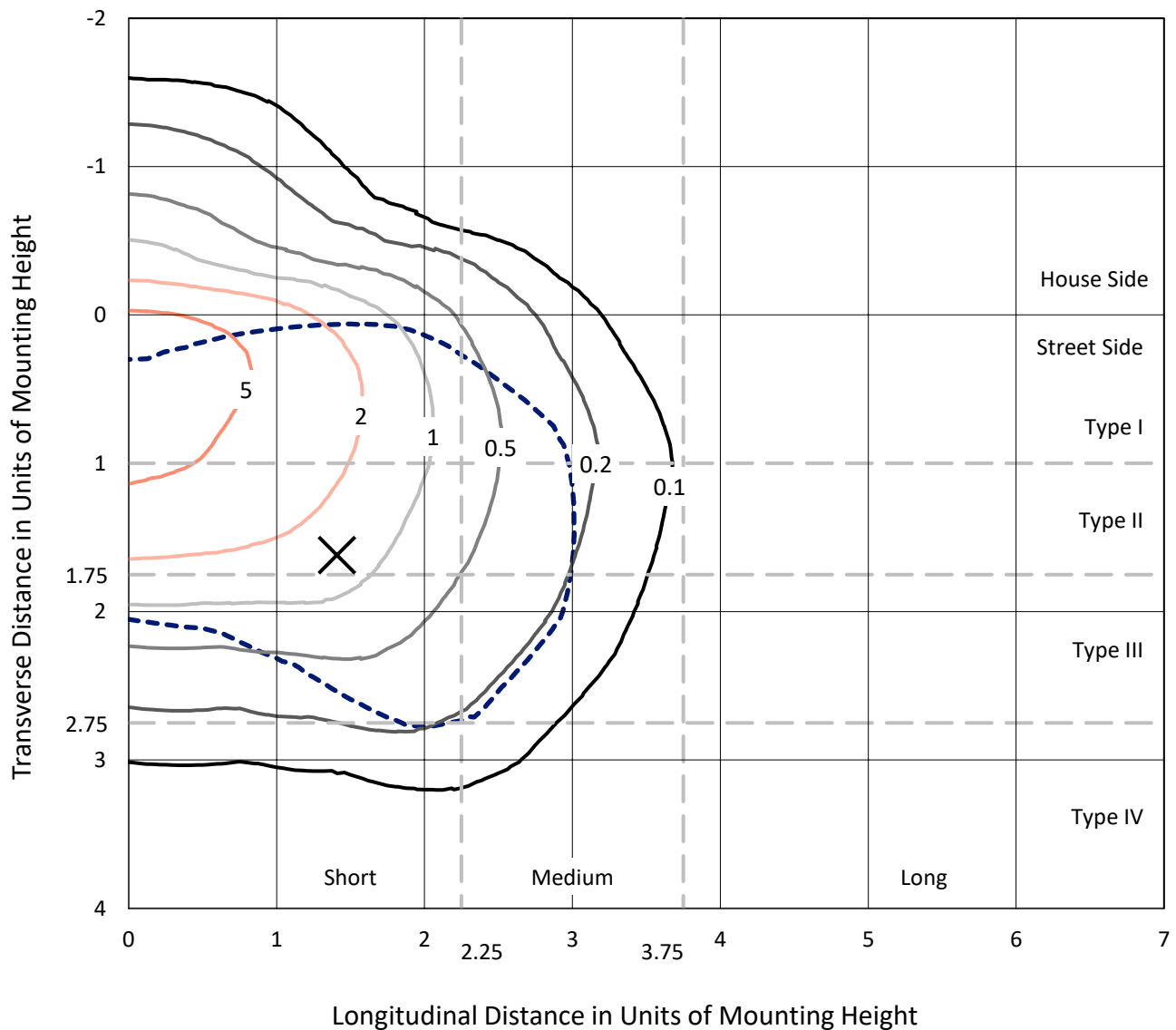
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P841529
CATALOG NUMBER: ARCH4-190-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

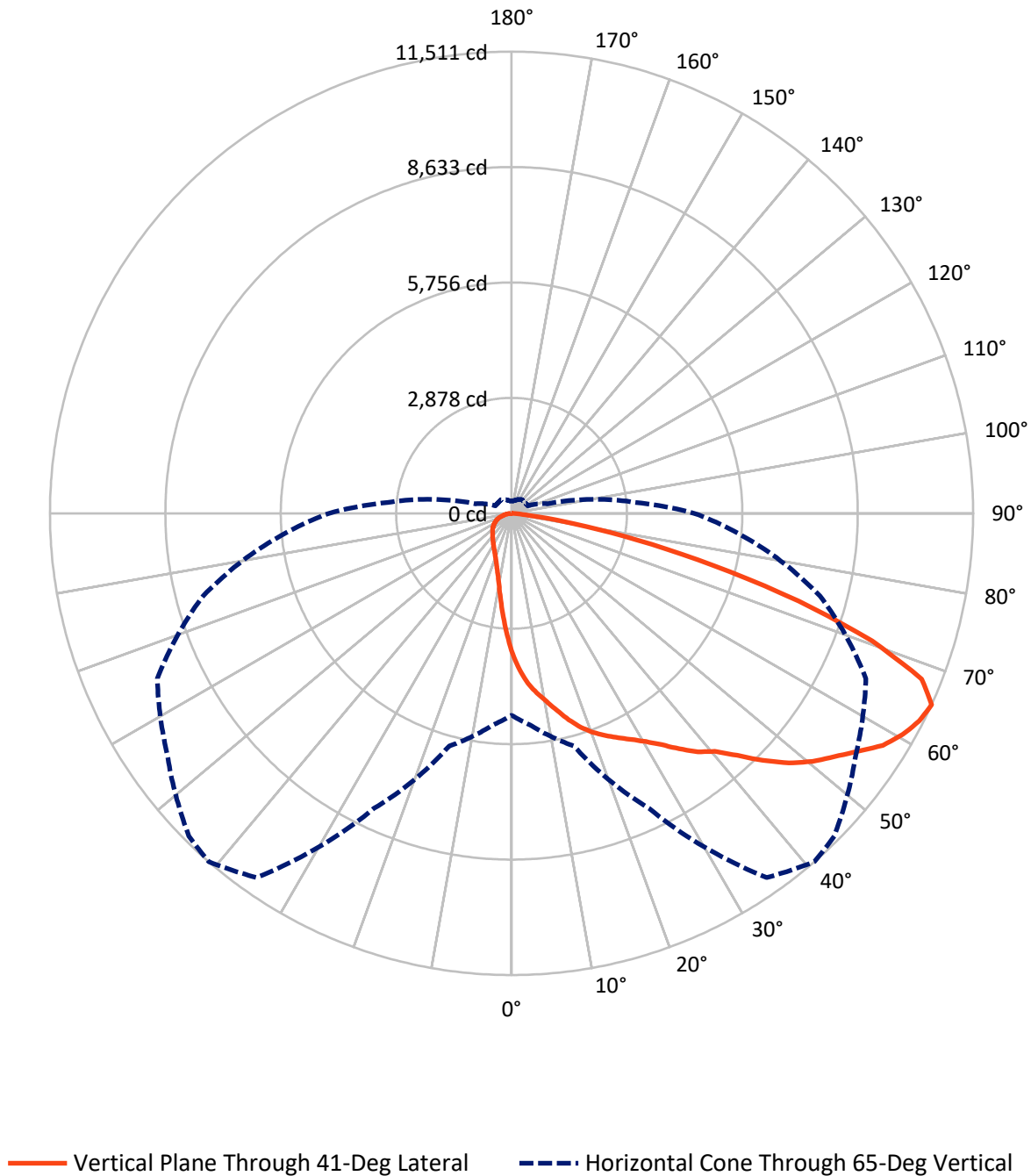
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
Type III - Short - N/A

REPORT NUMBER: P841529
CATALOG NUMBER: ARCH4-190-730-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P841529

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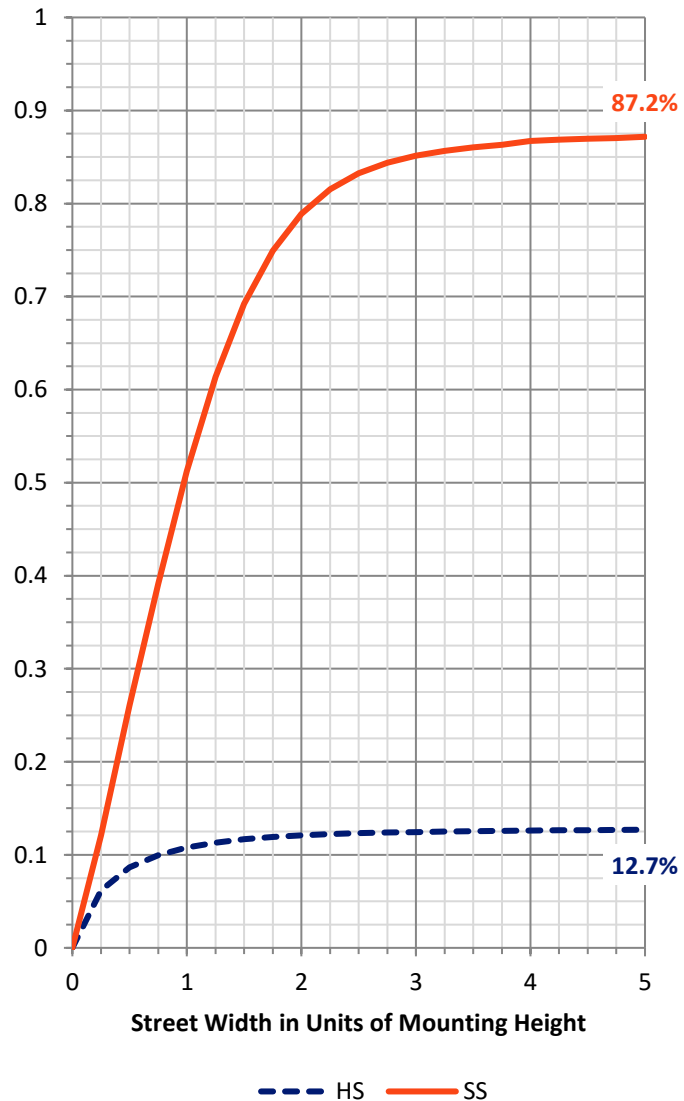
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2644.5	0.0	2644.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	17953.5	0.0	17953.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	20598.0	0.0	20598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.0	1.6
10°-20°	980.6	4.8
20°-30°	1687.0	8.2
30°-40°	2558.6	12.4
40°-50°	3748.4	18.2
50°-60°	4733.4	23.0
60°-70°	4438.4	21.5
70°-80°	1978.2	9.6
80°-90°	146.5	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°	20598.0	100.0
0°-180°	20598.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841529

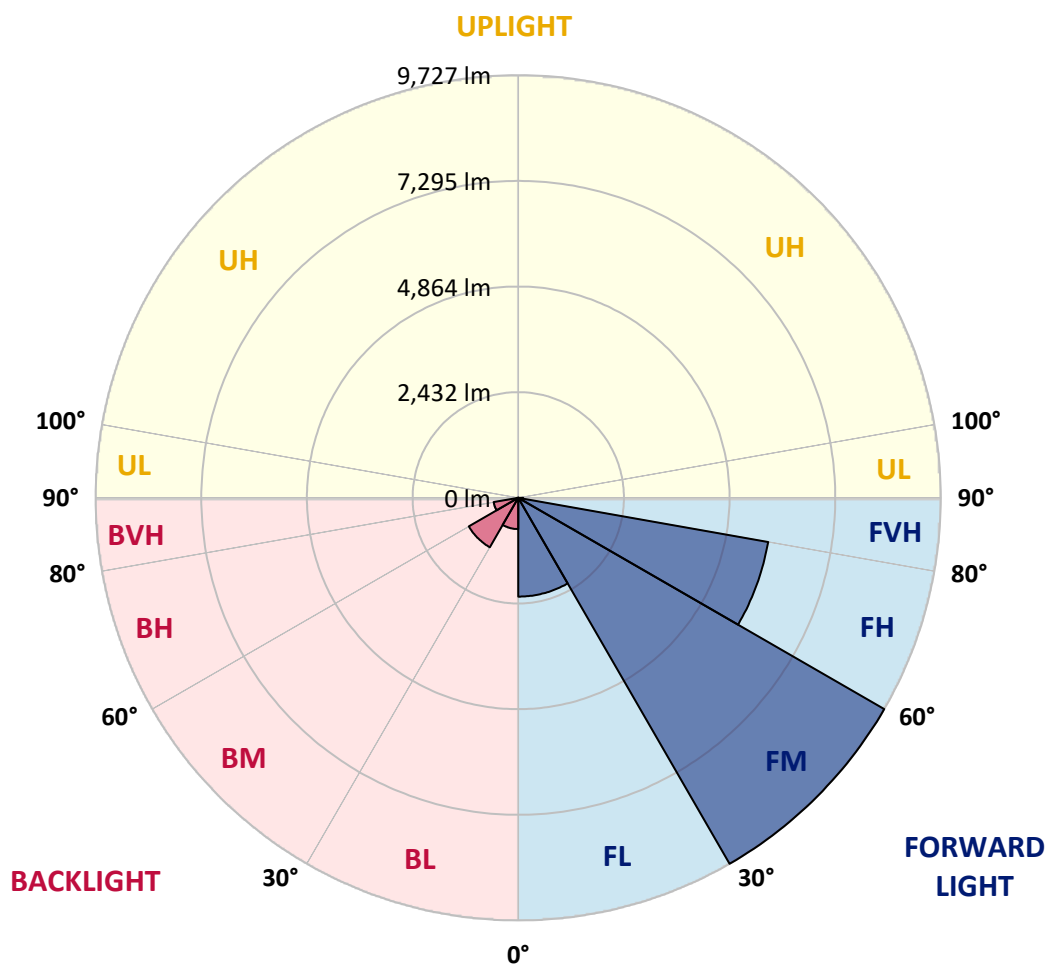
CATALOG NUMBER: ARCH4-190-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2274.8	11.0			
FM	(30°-60°)	9727.2	47.2			
FH	(60°-80°)	5842.1	28.4			G3/7500
FVH	(80°-90°)	109.4	0.5			G2/225
BL	(0°-30°)	719.8	3.5	B2/1000		
BM	(30°-60°)	1313.1	6.4	B2/2500		
BH	(60°-80°)	574.5	2.8	B2/1000		G2/1000
BVH	(80°-90°)	37.1	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: P841529

CATALOG NUMBER: ARCH4-190-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8
2.5°	4048.4	4035.4	4026.7	3978.9	3978.9	3913.8	3918.1	3857.3	3783.5	3666.2	3540.2
5°	4430.7	4413.3	4391.6	4343.8	4326.4	4261.3	4252.6	4165.7	4039.7	3835.6	3609.7
7.5°	4765.2	4747.8	4717.4	4647.9	4600.1	4521.9	4500.2	4387.2	4248.2	3996.3	3679.2
10°	5069.2	5056.2	5017.1	4930.2	4865.1	4769.5	4730.4	4578.4	4404.6	4126.6	3735.7
12.5°	5377.6	5360.3	5308.1	5234.3	5156.1	5043.2	4995.4	4799.9	4578.4	4270.0	3818.2
15°	5664.3	5638.3	5599.2	5521.0	5451.5	5342.9	5290.8	5060.5	4791.2	4430.7	3926.8
17.5°	5851.1	5829.4	5794.6	5751.2	5694.7	5612.2	5560.1	5334.2	5004.1	4587.1	4039.7
20°	5964.0	5955.4	5942.3	5916.3	5890.2	5833.7	5794.6	5581.8	5234.3	4739.1	4148.3
22.5°	6050.9	6042.2	6037.9	6037.9	6042.2	6020.5	5994.4	5812.0	5455.8	4899.8	4248.2
25°	6185.6	6181.2	6172.5	6163.9	6194.3	6198.6	6189.9	6063.9	5733.8	5112.7	4374.2
27.5°	6372.4	6359.3	6342.0	6333.3	6363.7	6385.4	6402.8	6315.9	6029.2	5329.8	4517.6
30°	6659.0	6620.0	6576.5	6546.1	6567.8	6602.6	6641.7	6589.5	6333.3	5599.2	4665.2
32.5°	6997.9	6950.1	6850.2	6793.7	6850.2	6876.2	6906.6	6880.6	6650.4	5890.2	4812.9
35°	7410.5	7354.1	7249.8	7167.3	7267.2	7210.7	7197.7	7171.6	6950.1	6176.9	4978.0
37.5°	8096.8	8014.3	7849.2	7666.8	7666.8	7545.2	7497.4	7419.2	7219.4	6433.2	5138.7
40°	8891.8	8783.2	8570.3	8301.0	8053.4	7801.5	7771.1	7714.6	7536.5	6728.5	5321.2
42.5°	9764.9	9556.4	9261.0	8935.2	8535.6	8248.9	8179.4	8018.7	7844.9	7028.3	5503.6
45°	10733.5	10299.2	9869.1	9704.1	9043.8	8783.2	8652.9	8361.8	8166.3	7341.0	5694.7
47.5°	10889.9	10551.1	10264.4	10238.3	9517.3	9300.1	9152.4	8735.4	8513.9	7675.5	5894.5
50°	10803.0	10598.9	10629.3	10525.0	9864.8	9721.4	9608.5	9135.0	8857.0	7996.9	6077.0
52.5°	10438.2	10551.1	10724.8	10533.7	10194.9	10077.6	10021.1	9565.1	9178.5	8292.3	6242.0
55°	10003.8	10082.0	10455.5	10690.1	10577.2	10472.9	10420.8	10064.6	9495.5	8539.9	6394.1
57.5°	9369.6	9334.8	9747.5	10664.0	10976.8	10916.0	10859.5	10555.4	9790.9	8718.0	6489.6
60°	8418.3	8344.4	8865.7	10142.8	11107.1	11202.7	11176.6	10881.2	10016.8	8713.7	6450.5
62.5°	6772.0	6954.4	7675.5	9291.4	11163.6	11406.8	11359.0	10907.3	10090.7	8461.7	6202.9
65°	5034.5	5295.1	6003.1	8118.6	11085.4	11511.1	11380.8	10481.6	9747.5	7962.2	5660.0
67.5°	3627.1	3857.3	4374.2	6680.8	10333.9	11033.3	10881.2	9786.6	8956.9	7254.1	4908.5
70°	2480.3	2645.4	2997.2	4865.1	8822.3	9539.0	9443.4	8748.4	7710.2	6411.5	3987.6
72.5°	1750.6	1820.1	2045.9	3210.1	6702.5	7484.4	7371.4	7197.7	6194.3	5329.8	3101.5
75°	1311.8	1355.3	1476.9	2076.3	4521.9	5186.5	5082.2	5182.2	4626.1	4035.4	2258.8
77.5°	495.2	538.6	838.4	1324.9	2675.8	3184.0	3079.8	3140.6	2571.5	2037.2	1125.0
80°	134.7	143.3	278.0	629.9	1216.3	1585.5	1442.1	1238.0	955.6	938.3	595.1
82.5°	56.5	65.2	126.0	338.8	434.4	434.4	364.9	451.8	364.9	438.7	286.7
85°	21.7	26.1	30.4	86.9	56.5	60.8	65.2	86.9	73.8	91.2	65.2
87.5°	0.0	0.0	0.0	4.3	4.3	8.7	4.3	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: P841529

CATALOG NUMBER: ARCH4-190-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8	3509.8
2.5°	3488.1	3440.3	3370.8	3257.9	3140.6	3075.4	2992.9	2979.8	2893.0	2884.3	2849.5
5°	3509.8	3409.9	3231.8	3014.6	2801.8	2636.7	2515.1	2449.9	2323.9	2323.9	2289.2
7.5°	3527.2	3370.8	3084.1	2762.7	2471.6	2250.1	2085.0	2015.5	1902.6	1893.9	1867.8
10°	3531.5	3323.0	2923.4	2506.4	2150.2	1924.3	1763.6	1685.4	1585.5	1576.8	1559.4
12.5°	3566.3	3296.9	2780.0	2284.8	1920.0	1676.7	1520.3	1455.2	1377.0	1368.3	1350.9
15°	3622.7	3296.9	2658.4	2098.1	1715.8	1489.9	1355.3	1294.5	1238.0	1229.3	1220.6
17.5°	3679.2	3288.3	2536.8	1924.3	1546.4	1342.2	1225.0	1177.2	1133.7	1129.4	1120.7
20°	3731.3	3283.9	2415.2	1776.6	1416.1	1220.6	1129.4	1086.0	1051.2	1051.2	1046.9
22.5°	3783.5	3275.2	2297.9	1637.6	1303.1	1129.4	1051.2	1003.4	977.4	977.4	973.0
25°	3861.6	3275.2	2189.3	1520.3	1211.9	1059.9	981.7	946.9	925.2	920.9	920.9
27.5°	3952.9	3301.3	2093.7	1416.1	1133.7	990.4	929.6	894.8	868.8	860.1	864.4
30°	4052.8	3323.0	2006.8	1324.9	1059.9	938.3	873.1	838.4	812.3	803.6	807.9
32.5°	4152.7	3349.1	1928.6	1242.3	986.0	890.5	825.3	786.2	760.2	755.8	755.8
35°	4261.3	3375.1	1850.5	1172.8	925.2	842.7	781.9	738.4	721.1	712.4	716.7
37.5°	4369.9	3418.6	1776.6	1107.7	881.8	799.3	742.8	699.4	686.3	682.0	682.0
40°	4500.2	3483.7	1746.2	1064.2	842.7	760.2	712.4	668.9	655.9	655.9	655.9
42.5°	4608.8	3535.9	1720.1	1016.4	812.3	725.4	682.0	647.2	638.5	634.2	638.5
45°	4717.4	3583.6	1685.4	973.0	773.2	690.7	655.9	621.2	612.5	612.5	612.5
47.5°	4826.0	3609.7	1637.6	929.6	738.4	660.3	629.9	599.4	590.8	590.8	590.8
50°	4912.8	3631.4	1568.1	881.8	699.4	634.2	603.8	573.4	564.7	564.7	564.7
52.5°	4999.7	3635.8	1494.3	825.3	660.3	603.8	577.7	547.3	538.6	534.3	534.3
55°	5077.9	3631.4	1407.4	760.2	616.8	569.0	547.3	521.3	503.9	486.5	495.2
57.5°	5134.4	3627.1	1307.5	695.0	573.4	534.3	525.6	490.8	456.1	412.7	421.3
60°	5112.7	3579.3	1198.9	612.5	525.6	499.5	499.5	451.8	390.9	369.2	373.6
62.5°	4973.7	3444.6	1086.0	525.6	477.8	464.8	460.4	408.3	360.5	338.8	343.2
65°	4556.6	3105.8	920.9	447.4	430.0	425.7	425.7	377.9	334.5	308.4	312.8
67.5°	3922.5	2606.3	751.5	377.9	382.3	390.9	390.9	347.5	304.1	278.0	282.3
70°	3144.9	2037.2	599.4	325.8	330.1	343.2	351.8	312.8	273.7	247.6	247.6
72.5°	2367.4	1546.4	482.2	273.7	295.4	295.4	308.4	278.0	238.9	212.8	217.2
75°	1715.8	1107.7	382.3	230.2	256.3	251.9	251.9	234.6	204.2	186.8	186.8
77.5°	812.3	582.1	304.1	165.1	199.8	195.5	199.8	186.8	173.8	156.4	160.7
80°	399.6	286.7	195.5	117.3	139.0	143.3	156.4	147.7	143.3	130.3	130.3
82.5°	191.1	112.9	91.2	82.5	95.6	99.9	108.6	108.6	112.9	104.3	104.3
85°	52.1	30.4	39.1	52.1	60.8	65.2	73.8	78.2	78.2	73.8	78.2
87.5°	13.0	13.0	17.4	26.1	30.4	34.8	39.1	39.1	17.4	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)