

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: P842031

Luminaire Tested: **ARCH4-260-730-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-260-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25621 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 259.2
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

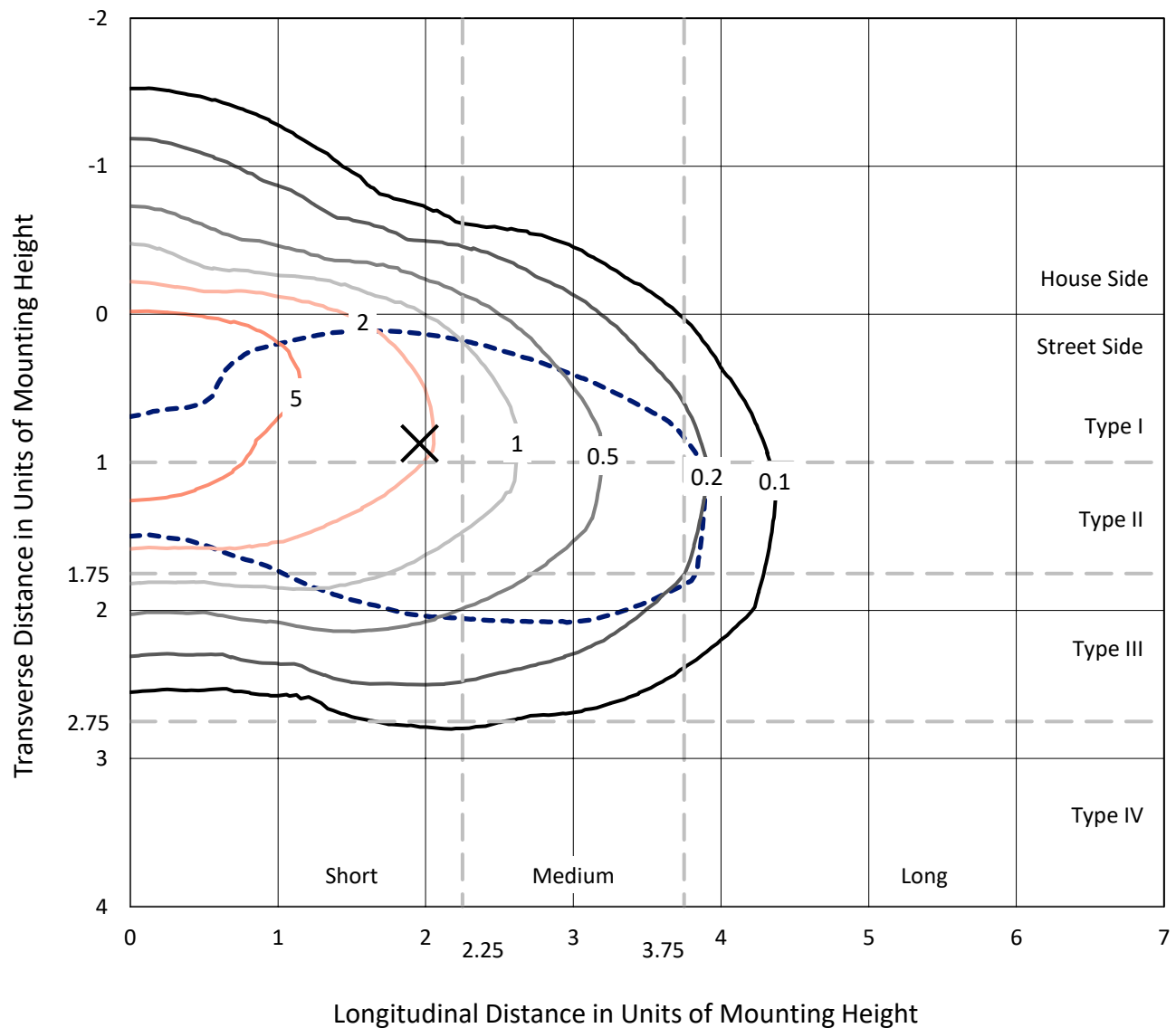


REPORT NUMBER: P842031

CATALOG NUMBER: ARCH4-260-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

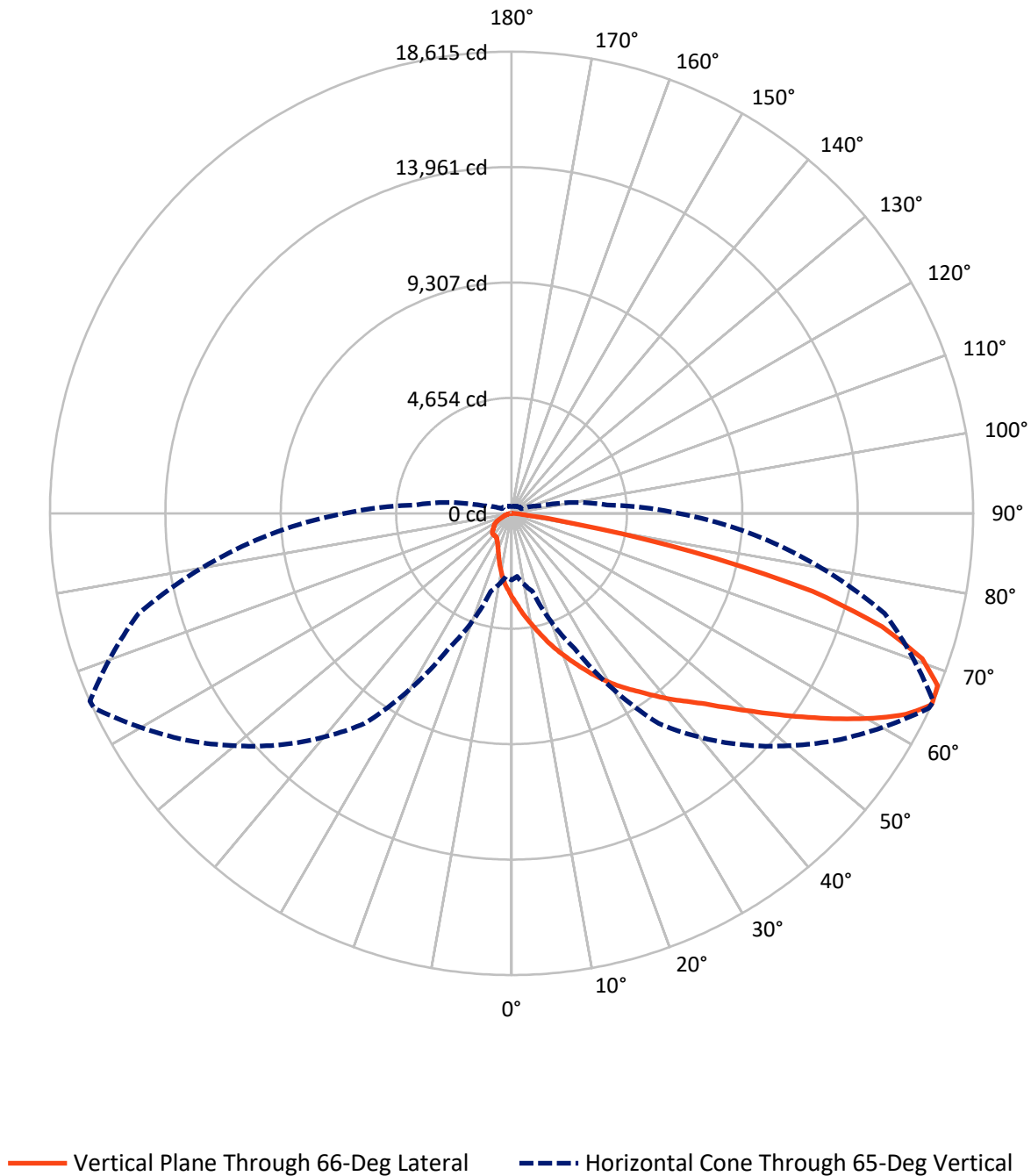
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
Type III - Short - N/A

REPORT NUMBER: P842031
CATALOG NUMBER: ARCH4-260-730-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P842031

CATALOG NUMBER: ARCH4-260-730-U-T3-HSS

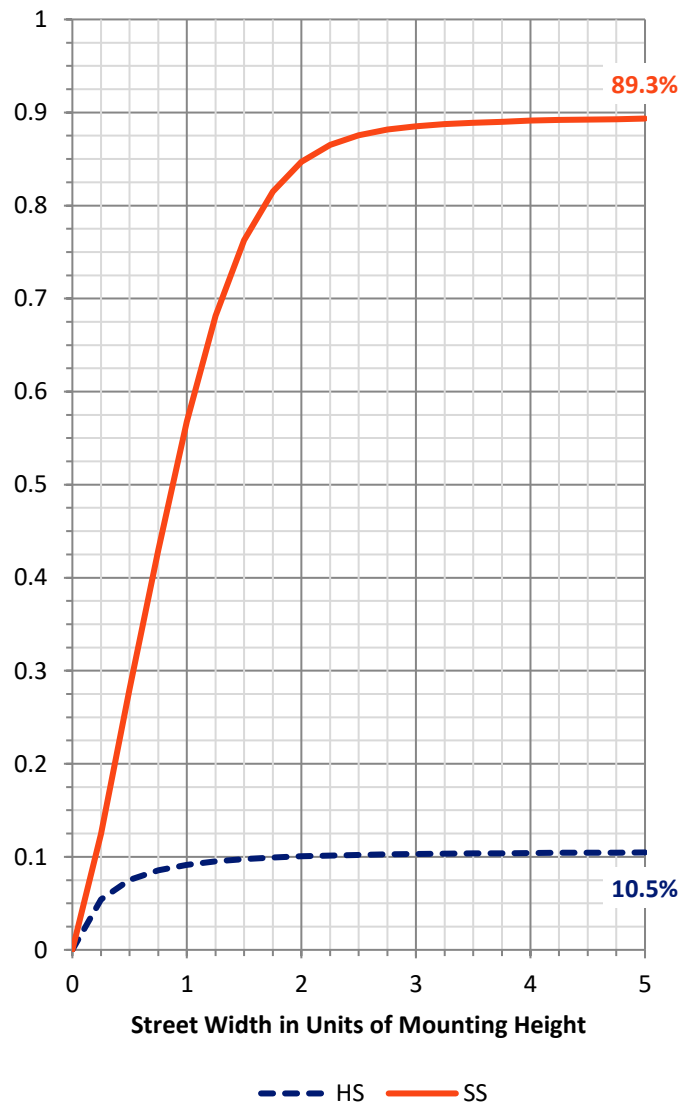
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2710.0	0.0	2710.0
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	22911.0	0.0	22911.0
	% Fixture	89.4	0.0	89.4
Total	Lumens	25621.0	0.0	25621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.7	1.3
10°-20°	1090.8	4.3
20°-30°	1973.6	7.7
30°-40°	3086.2	12.0
40°-50°	4681.7	18.3
50°-60°	5948.2	23.2
60°-70°	5558.0	21.7
70°-80°	2762.3	10.8
80°-90°	185.6	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°	25621.0	100.0
0°-180°	25621.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842031

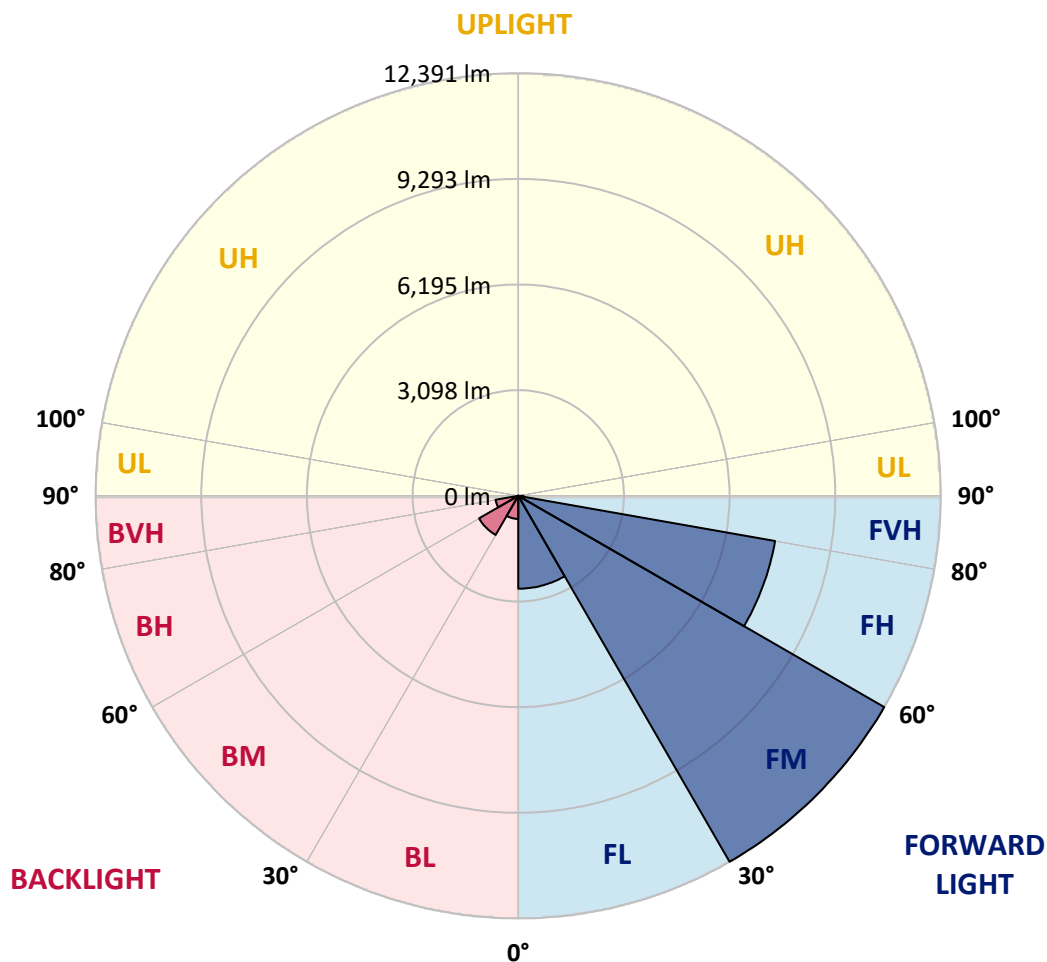
CATALOG NUMBER: ARCH4-260-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2722.2	10.6			
FM	(30°-60°)	12390.6	48.4			
FH	(60°-80°)	7645.4	29.8			G4/12000
FVH	(80°-90°)	152.7	0.6			G2/225
BL	(0°-30°)	676.8	2.6	B2/1000		
BM	(30°-60°)	1325.5	5.2	B2/2500		
BH	(60°-80°)	674.9	2.6	B2/1000		G2/1000
BVH	(80°-90°)	32.9	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-G4

Type III Short



REPORT NUMBER: P842031

CATALOG NUMBER: ARCH4-260-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8
2.5°	3960.4	3992.7	4008.8	4014.1	3890.6	3836.8	3783.1	3659.5	3632.6	3562.8	3471.4
5°	4659.0	4702.0	4691.2	4669.7	4519.3	4347.3	4207.6	3976.5	3938.9	3772.3	3568.1
7.5°	5346.8	5384.4	5373.7	5293.1	5126.5	4884.7	4653.6	4315.1	4261.3	3992.7	3664.9
10°	5921.8	5954.0	5948.7	5868.1	5669.2	5373.7	5094.3	4642.9	4578.4	4196.9	3745.5
12.5°	6394.7	6437.7	6432.3	6378.6	6201.2	5878.8	5561.8	5019.0	4938.4	4444.0	3858.3
15°	6765.5	6819.2	6819.2	6797.7	6674.1	6405.4	6045.4	5432.8	5336.1	4728.8	3998.0
17.5°	6991.2	7034.2	7071.8	7109.4	7023.4	6819.2	6491.4	5846.6	5744.5	5008.3	4143.1
20°	7109.4	7152.4	7179.3	7259.9	7276.0	7173.9	6915.9	6255.0	6147.5	5325.3	4309.7
22.5°	7302.8	7340.5	7345.8	7415.7	7447.9	7474.8	7313.6	6658.0	6572.0	5674.6	4497.8
25°	7625.3	7668.3	7652.1	7684.4	7689.8	7722.0	7705.9	7120.1	7034.2	6072.3	4723.5
27.5°	8039.0	8092.8	8082.0	8049.8	8001.4	7974.6	8044.4	7587.7	7507.0	6469.9	4954.5
30°	8485.1	8549.5	8533.4	8468.9	8340.0	8227.1	8323.8	8028.3	7953.1	6878.3	5212.5
32.5°	8936.4	9011.7	9006.3	8898.8	8678.5	8485.1	8630.1	8442.1	8388.3	7319.0	5491.9
35°	9232.0	9328.7	9318.0	9253.5	8968.7	8802.1	8979.4	8866.6	8829.0	7856.3	5894.9
37.5°	9710.3	9812.4	9721.0	9559.8	9232.0	9146.0	9361.0	9344.8	9318.0	8425.9	6319.5
40°	10871.0	11021.4	10779.6	10118.7	9581.3	9506.1	9812.4	9876.8	9850.0	8990.2	6701.0
42.5°	12085.4	12311.1	11935.0	11021.4	10215.4	9941.3	10306.7	10398.1	10365.8	9473.8	7044.9
45°	12821.6	12918.4	12542.2	11832.9	11338.5	10467.9	10833.4	10983.8	10957.0	10054.2	7485.6
47.5°	13423.5	13385.9	12956.0	12477.7	12569.1	11209.5	11429.8	11725.4	11703.9	10693.6	7969.2
50°	13552.4	13466.5	13294.5	12993.6	13235.4	11961.8	12058.6	12569.1	12547.6	11403.0	8458.2
52.5°	12644.3	12531.4	12999.0	13251.5	13170.9	12510.0	12751.8	13493.3	13482.6	12171.4	8925.7
55°	10376.6	10285.2	11542.7	12848.5	13101.1	12896.9	13520.2	14455.2	14514.3	12988.2	9350.2
57.5°	8162.6	8065.9	9301.9	11838.2	12843.1	13251.5	14417.6	15556.8	15632.1	13874.9	9753.2
60°	6507.5	6362.4	7308.2	10247.6	12359.5	13525.6	15282.8	16765.9	16776.7	14686.3	10000.4
62.5°	4422.5	4261.3	5309.2	8232.5	11548.1	13568.6	15949.1	17808.4	17851.4	15293.5	10043.4
65°	2686.8	2552.5	3261.8	6013.2	10349.7	13203.2	15959.9	18576.8	18614.5	15573.0	9785.5
67.5°	1558.4	1504.6	1864.7	3745.5	8361.5	12219.8	15288.1	18458.6	18528.5	15454.7	9199.8
70°	908.2	902.8	1037.1	1853.9	5900.3	10269.1	13788.9	17464.5	17566.6	14836.8	8302.4
72.5°	666.3	677.1	730.8	994.1	3417.7	7394.2	11677.0	15465.5	15621.3	13627.7	7023.4
75°	526.6	532.0	580.4	677.1	1794.8	4180.7	8748.4	12413.2	12536.8	11472.8	5486.5
77.5°	392.3	403.0	440.6	478.3	832.9	1918.4	4922.3	7646.8	7442.6	6298.0	2649.2
80°	284.8	311.7	327.8	343.9	440.6	741.6	1477.8	2665.4	2643.9	2751.3	1252.1
82.5°	182.7	204.2	220.3	231.1	263.3	354.7	440.6	596.5	644.8	1069.4	499.8
85°	80.6	91.4	102.1	123.6	112.8	123.6	182.7	118.2	102.1	161.2	91.4
87.5°	0.0	0.0	16.1	26.9	21.5	10.7	32.2	21.5	16.1	16.1	16.1
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: P842031

CATALOG NUMBER: ARCH4-260-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8	3390.8
2.5°	3423.0	3363.9	3240.3	3122.1	3052.3	2960.9	2880.3	2805.1	2799.7	2778.2	2740.6
5°	3466.0	3353.2	3122.1	2901.8	2735.2	2557.9	2407.4	2289.2	2246.2	2214.0	2171.0
7.5°	3509.0	3331.7	2987.8	2665.4	2402.0	2154.8	1977.5	1816.3	1767.9	1725.0	1698.1
10°	3525.1	3294.1	2831.9	2402.0	2058.1	1794.8	1606.7	1488.5	1445.5	1424.0	1407.9
12.5°	3573.5	3272.6	2686.8	2154.8	1757.2	1515.4	1381.0	1311.2	1295.1	1278.9	1262.8
15°	3638.0	3272.6	2541.8	1913.0	1520.8	1327.3	1246.7	1198.3	1187.6	1182.2	1171.5
17.5°	3707.8	3272.6	2402.0	1708.8	1348.8	1203.7	1144.6	1117.7	1112.4	1107.0	1101.6
20°	3804.6	3278.0	2251.6	1531.5	1225.2	1112.4	1064.0	1031.7	1026.4	1021.0	1021.0
22.5°	3901.3	3288.7	2106.5	1397.2	1144.6	1042.5	983.4	951.1	940.4	940.4	940.4
25°	4024.9	3320.9	1972.1	1284.3	1074.7	978.0	902.8	875.9	870.5	870.5	865.2
27.5°	4170.0	3358.6	1853.9	1198.3	1004.9	902.8	827.5	800.7	789.9	789.9	784.6
30°	4325.8	3396.2	1757.2	1133.8	935.0	827.5	757.7	725.4	714.7	720.1	714.7
32.5°	4497.8	3449.9	1682.0	1090.9	870.5	763.1	698.6	661.0	655.6	655.6	650.2
35°	4788.0	3600.4	1671.2	1069.4	816.8	714.7	650.2	612.6	607.2	607.2	601.9
37.5°	5099.6	3772.3	1719.6	1058.6	773.8	671.7	612.6	575.0	569.6	569.6	569.6
40°	5362.9	3901.3	1773.3	1058.6	746.9	634.1	580.4	548.1	548.1	548.1	548.1
42.5°	5540.3	3912.0	1762.6	1058.6	725.4	607.2	558.9	526.6	526.6	532.0	526.6
45°	5803.6	3965.8	1719.6	1042.5	709.3	585.7	537.4	510.5	505.1	510.5	510.5
47.5°	6115.3	4062.5	1676.6	978.0	704.0	564.2	521.2	489.0	483.6	489.0	483.6
50°	6410.8	4148.5	1655.1	892.0	693.2	542.7	499.8	467.5	462.1	467.5	462.1
52.5°	6658.0	4186.1	1617.5	832.9	666.3	521.2	478.3	446.0	435.3	440.6	440.6
55°	6856.8	4175.4	1563.7	784.6	618.0	499.8	451.4	424.5	408.4	408.4	403.0
57.5°	7039.5	4180.7	1515.4	736.2	564.2	467.5	429.9	397.7	376.2	370.8	365.4
60°	7109.4	4153.9	1429.4	671.7	510.5	440.6	403.0	365.4	343.9	338.5	333.2
62.5°	7012.7	4057.1	1316.6	558.9	462.1	408.4	376.2	338.5	317.0	311.7	306.3
65°	6738.6	3874.4	1144.6	440.6	419.1	370.8	343.9	317.0	290.2	279.4	274.1
67.5°	6271.1	3611.1	929.6	354.7	370.8	338.5	322.4	290.2	257.9	247.2	241.8
70°	5604.8	3261.8	698.6	300.9	327.8	300.9	290.2	257.9	231.1	220.3	214.9
72.5°	4669.7	2697.6	489.0	257.9	284.8	263.3	252.6	231.1	204.2	188.1	188.1
75°	3530.5	1934.5	322.4	220.3	236.4	225.7	209.6	193.5	177.3	166.6	161.2
77.5°	1520.8	752.3	198.8	166.6	193.5	188.1	166.6	155.8	150.5	139.7	139.7
80°	655.6	306.3	123.6	123.6	139.7	134.3	129.0	118.2	118.2	112.8	107.5
82.5°	241.8	123.6	75.2	91.4	102.1	91.4	91.4	91.4	91.4	86.0	86.0
85°	59.1	37.6	37.6	53.7	59.1	53.7	59.1	53.7	53.7	53.7	48.4
87.5°	16.1	16.1	21.5	21.5	21.5	21.5	21.5	16.1	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)