

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: P841959

Luminaire Tested: **ARCH4-250-730-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841959
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: ARCH4-250-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 975mA 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: 24918 lumens
Efficiency: N/A
Efficacy: 99.9 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): 249.5
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



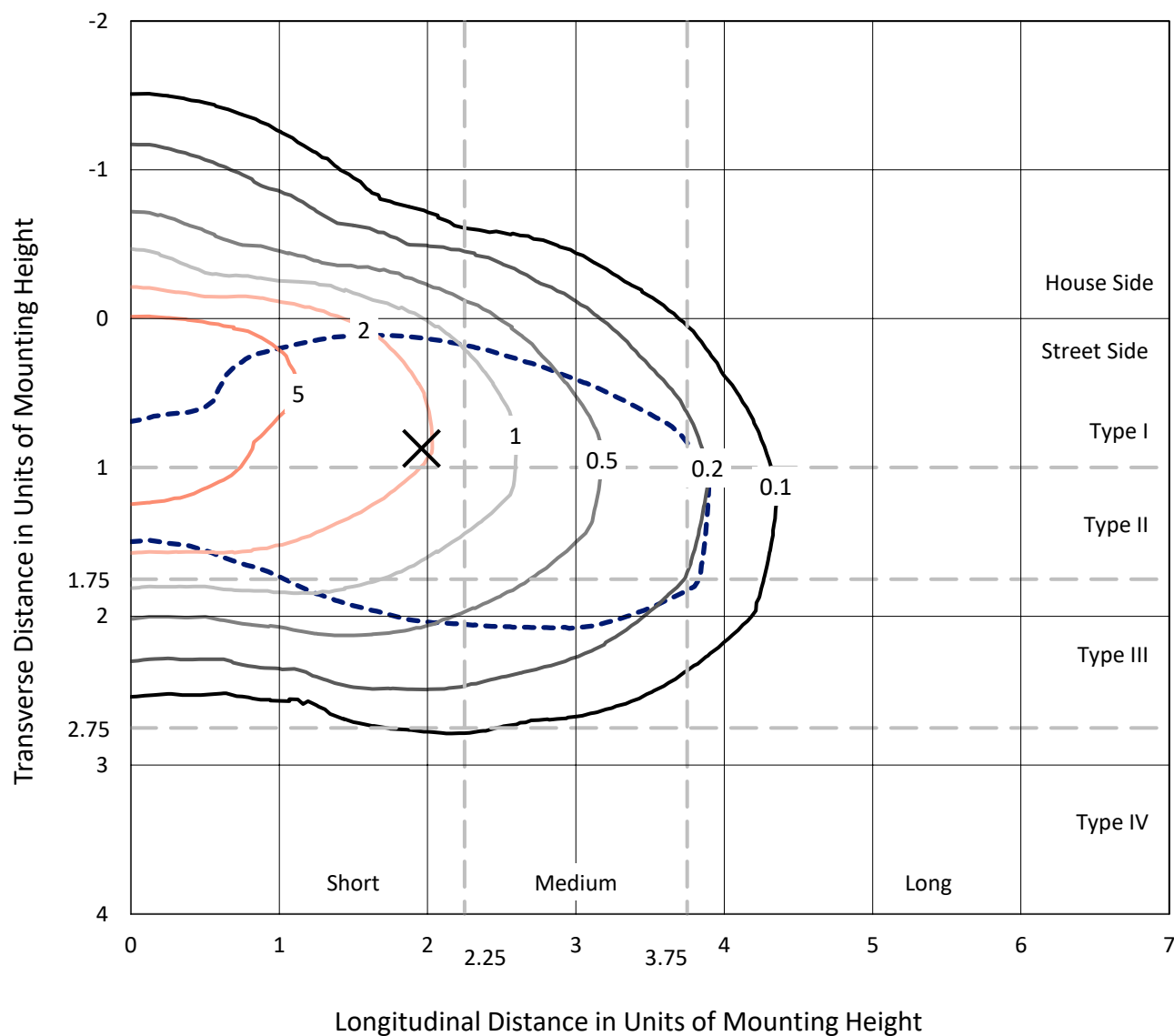
REPORT NUMBER: P841959

CATALOG NUMBER: ARCH4-250-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

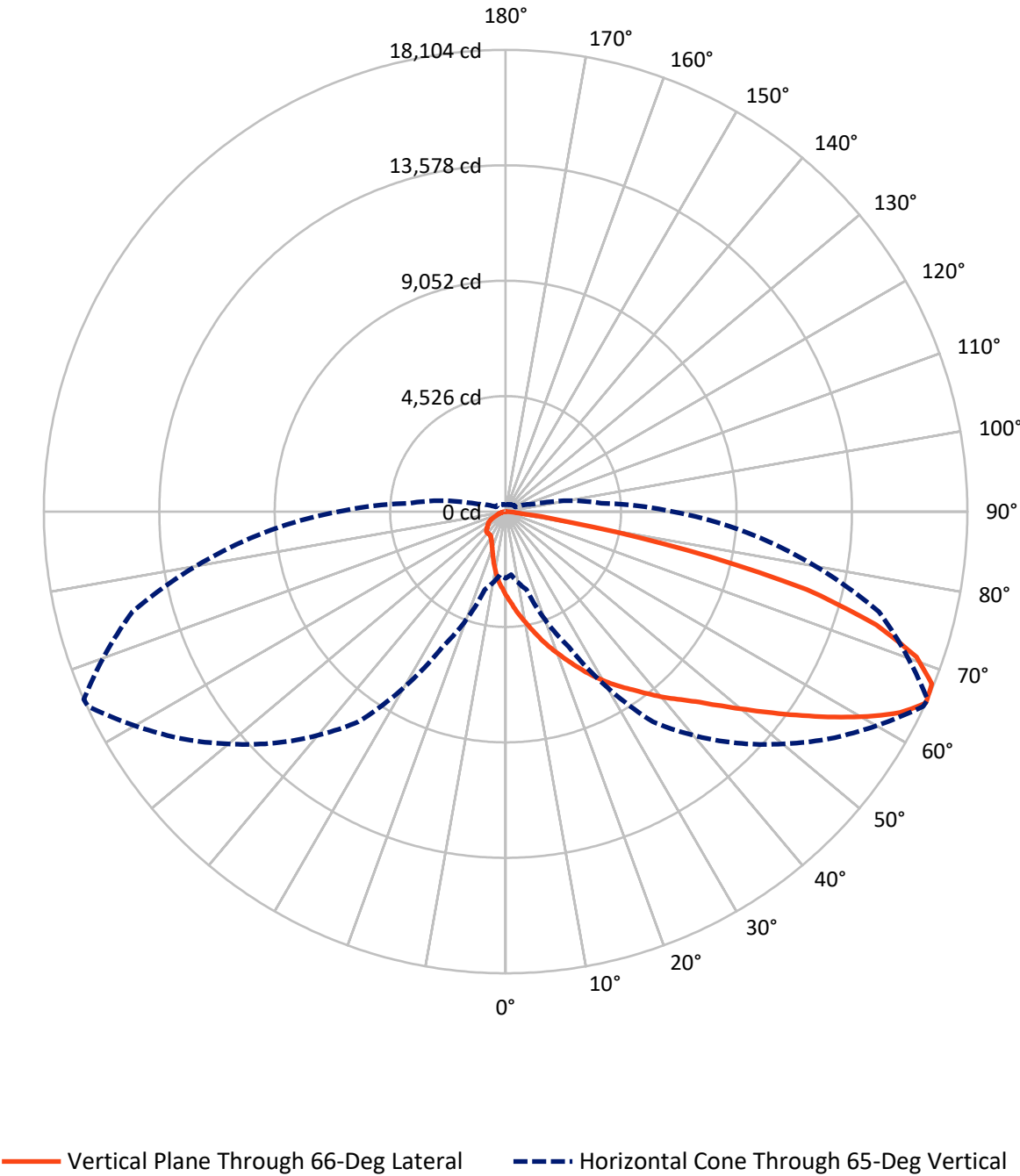


Based on 25 foot mounting height. Maximum calculated value = 9.5 fc

Type III - Short - N/A

REPORT NUMBER: P841959
CATALOG NUMBER: ARCH4-250-730-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P841959

CATALOG NUMBER: ARCH4-250-730-U-T3-HSS

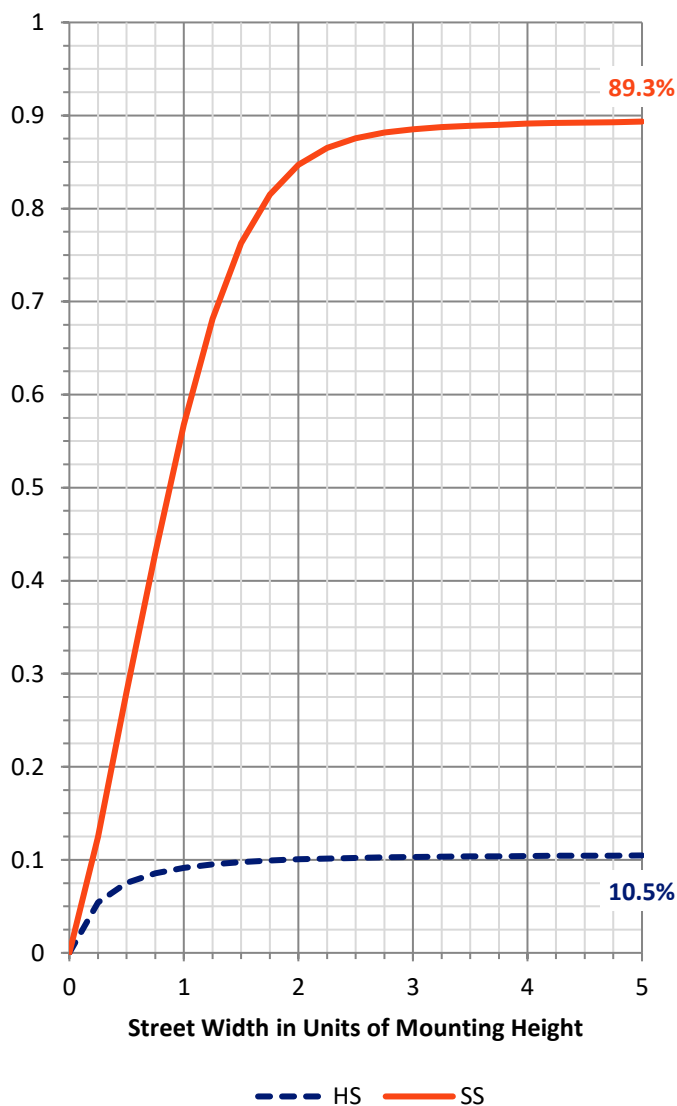
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2635.7	0.0	2635.7
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	22282.3	0.0	22282.3
	% Fixture	89.4	0.0	89.4
Total	Lumens	24918.0	0.0	24918.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.5	1.3
10°-20°	1060.9	4.3
20°-30°	1919.4	7.7
30°-40°	3001.5	12.0
40°-50°	4553.2	18.3
50°-60°	5785.0	23.2
60°-70°	5405.5	21.7
70°-80°	2686.5	10.8
80°-90°	180.5	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°	24918.0	100.0
0°-180°	24918.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841959

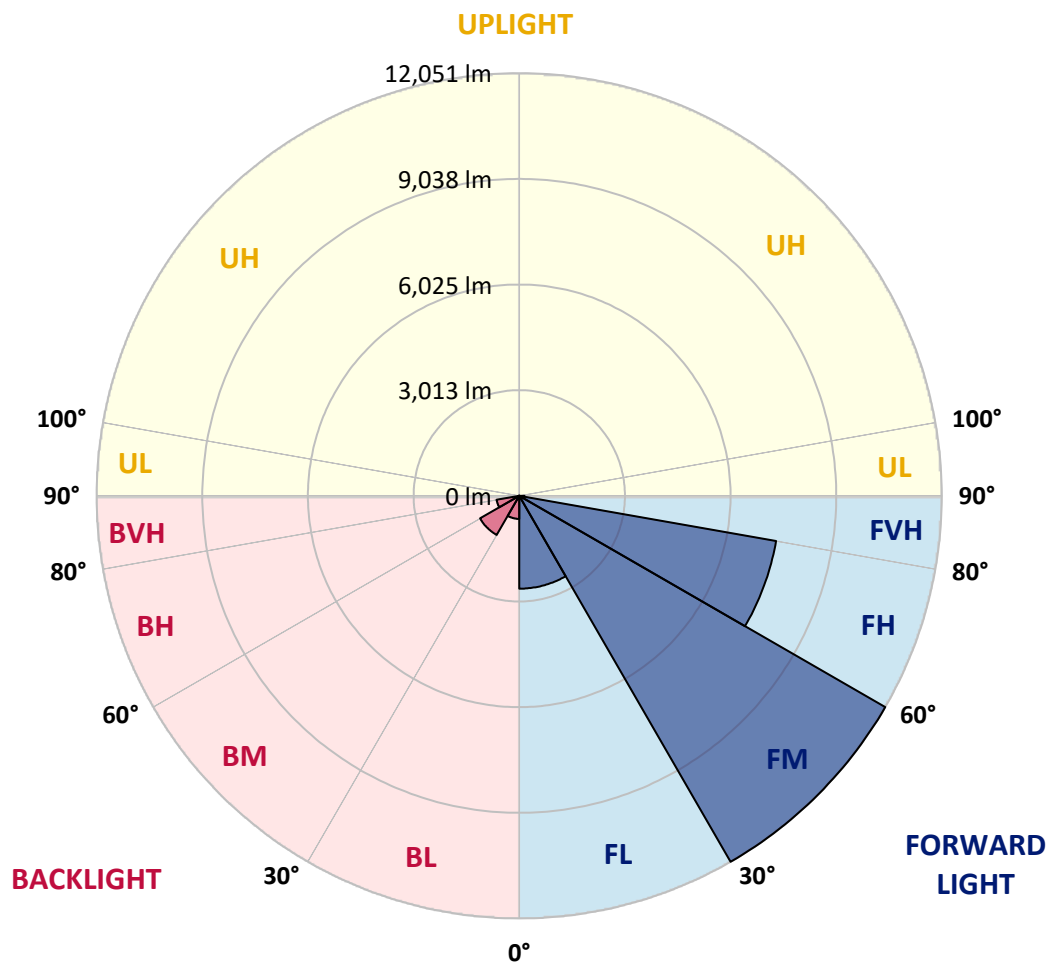
CATALOG NUMBER: ARCH4-250-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2647.5	10.6			
FM	(30°-60°)	12050.6	48.4			
FH	(60°-80°)	7435.6	29.8			G3/7500
FVH	(80°-90°)	148.5	0.6			G2/225
BL	(0°-30°)	658.2	2.6	B2/1000		
BM	(30°-60°)	1289.1	5.2	B2/2500		
BH	(60°-80°)	656.4	2.6	B2/1000		G2/1000
BVH	(80°-90°)	32.0	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-G3

Type III Short



REPORT NUMBER: P841959

CATALOG NUMBER: ARCH4-250-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3297.8	3297.8	3297.8	3297.8	3297.8	3297.8	3297.8	3297.8	3297.8	3297.8	3297.8
2.5°	3851.7	3883.1	3898.8	3904.0	3783.8	3731.5	3679.3	3559.1	3532.9	3465.0	3376.2
5°	4531.2	4573.0	4562.5	4541.6	4395.3	4228.0	4092.1	3867.4	3830.8	3668.8	3470.2
7.5°	5200.1	5236.7	5226.2	5147.9	4985.8	4750.7	4525.9	4196.7	4144.4	3883.1	3564.3
10°	5759.3	5790.7	5785.5	5707.1	5513.7	5226.2	4954.5	4515.5	4452.8	4081.7	3642.7
12.5°	6219.2	6261.0	6255.8	6203.6	6031.1	5717.5	5409.2	4881.3	4802.9	4322.1	3752.4
15°	6579.8	6632.1	6632.1	6611.2	6491.0	6229.7	5879.5	5283.7	5189.7	4599.1	3888.3
17.5°	6799.3	6841.2	6877.7	6914.3	6830.7	6632.1	6313.3	5686.2	5586.9	4870.9	4029.4
20°	6914.3	6956.1	6982.3	7060.7	7076.3	6977.0	6726.2	6083.3	5978.8	5179.2	4191.4
22.5°	7102.5	7139.1	7144.3	7212.2	7243.6	7269.7	7112.9	6475.3	6391.7	5518.9	4374.4
25°	7416.0	7457.9	7442.2	7473.5	7478.8	7510.1	7494.4	6924.8	6841.2	5905.7	4593.9
27.5°	7818.5	7870.7	7860.3	7828.9	7781.9	7755.7	7823.7	7379.5	7301.1	6292.4	4818.6
30°	8252.2	8315.0	8299.3	8236.6	8111.1	8001.4	8095.5	7808.0	7734.8	6689.6	5069.5
32.5°	8691.2	8764.4	8759.2	8654.7	8440.4	8252.2	8393.3	8210.4	8158.2	7118.1	5341.2
35°	8978.7	9072.8	9062.3	8999.6	8722.6	8560.6	8733.1	8623.3	8586.7	7640.8	5733.2
37.5°	9443.8	9543.1	9454.3	9297.5	8978.7	8895.1	9104.1	9088.4	9062.3	8194.8	6146.1
40°	10572.7	10719.0	10483.8	9841.0	9318.4	9245.2	9543.1	9605.8	9579.7	8743.5	6517.1
42.5°	11753.8	11973.3	11607.5	10719.0	9935.1	9668.6	10023.9	10112.8	10081.4	9213.9	6851.6
45°	12469.8	12563.9	12198.1	11508.2	11027.4	10180.7	10536.1	10682.4	10656.3	9778.3	7280.2
47.5°	13055.2	13018.6	12600.5	12135.3	12224.2	10901.9	11116.2	11403.7	11382.8	10400.2	7750.5
50°	13180.6	13097.0	12929.7	12637.1	12872.2	11633.6	11727.7	12224.2	12203.3	11090.1	8226.1
52.5°	12297.4	12187.6	12642.3	12887.9	12809.5	12166.7	12401.9	13123.1	13112.6	11837.4	8680.8
55°	10091.9	10003.0	11226.0	12496.0	12741.6	12543.0	13149.2	14058.6	14116.1	12631.8	9093.7
57.5°	7938.7	7844.6	9046.6	11513.4	12490.7	12887.9	14022.0	15130.0	15203.1	13494.2	9485.6
60°	6329.0	6187.9	7107.7	9966.4	12020.4	13154.5	14863.4	16305.9	16316.3	14283.3	9726.0
62.5°	4301.2	4144.4	5163.5	8006.6	11231.2	13196.3	15511.5	17319.8	17361.6	14873.9	9767.9
65°	2613.1	2482.5	3172.3	5848.2	10065.7	12840.9	15521.9	18067.1	18103.7	15145.7	9517.0
67.5°	1515.6	1463.3	1813.5	3642.7	8132.0	11884.5	14868.7	17952.2	18020.1	15030.7	8947.3
70°	883.2	878.0	1008.7	1803.1	5738.4	9987.4	13410.5	16985.3	17084.6	14429.7	8074.5
72.5°	648.1	658.5	710.8	966.9	3323.9	7191.3	11356.6	15041.1	15192.7	13253.8	6830.7
75°	512.2	517.4	564.4	658.5	1745.6	4066.0	8508.3	12072.6	12192.8	11158.0	5336.0
77.5°	381.5	392.0	428.6	465.1	810.1	1865.8	4787.2	7436.9	7238.3	6125.2	2576.5
80°	277.0	303.1	318.8	334.5	428.6	721.2	1437.2	2592.2	2571.3	2675.8	1217.7
82.5°	177.7	198.6	214.3	224.7	256.1	344.9	428.6	580.1	627.1	1040.0	486.0
85°	78.4	88.8	99.3	120.2	109.8	120.2	177.7	115.0	99.3	156.8	88.8
87.5°	0.0	0.0	15.7	26.1	20.9	10.5	31.4	20.9	15.7	15.7	15.7
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: P841959

CATALOG NUMBER: ARCH4-250-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3297.8	3297.8	3297.8	3297.8	3297.8	3297.8	3297.8	3297.8	3297.8	3297.8	3297.8
2.5°	3329.1	3271.6	3151.4	3036.4	2968.5	2879.7	2801.3	2728.1	2722.9	2702.0	2665.4
5°	3370.9	3261.2	3036.4	2822.2	2660.2	2487.7	2341.4	2226.4	2184.6	2153.2	2111.4
7.5°	3412.7	3240.3	2905.8	2592.2	2336.1	2095.7	1923.3	1766.5	1719.4	1677.6	1651.5
10°	3428.4	3203.7	2754.2	2336.1	2001.7	1745.6	1562.6	1447.7	1405.9	1385.0	1369.3
12.5°	3475.5	3182.8	2613.1	2095.7	1709.0	1473.8	1343.1	1275.2	1259.5	1243.8	1228.2
15°	3538.2	3182.8	2472.0	1860.5	1479.0	1290.9	1212.5	1165.5	1155.0	1149.8	1139.3
17.5°	3606.1	3182.8	2336.1	1661.9	1311.8	1170.7	1113.2	1087.1	1081.8	1076.6	1071.4
20°	3700.2	3188.0	2189.8	1489.5	1191.6	1081.8	1034.8	1003.4	998.2	993.0	993.0
22.5°	3794.3	3198.5	2048.7	1358.8	1113.2	1013.9	956.4	925.0	914.6	914.6	914.6
25°	3914.5	3229.8	1918.0	1249.1	1045.2	951.2	878.0	851.9	846.7	846.7	841.4
27.5°	4055.6	3266.4	1803.1	1165.5	977.3	878.0	804.8	778.7	768.3	768.3	763.0
30°	4207.1	3303.0	1709.0	1102.7	909.4	804.8	736.9	705.5	695.1	700.3	695.1
32.5°	4374.4	3355.2	1635.8	1060.9	846.7	742.1	679.4	642.8	637.6	637.6	632.4
35°	4656.6	3501.6	1625.4	1040.0	794.4	695.1	632.4	595.8	590.6	590.6	585.3
37.5°	4959.7	3668.8	1672.4	1029.6	752.6	653.3	595.8	559.2	554.0	554.0	554.0
40°	5215.8	3794.3	1724.7	1029.6	726.4	616.7	564.4	533.1	533.1	533.1	533.1
42.5°	5388.3	3804.7	1714.2	1029.6	705.5	590.6	543.5	512.2	512.2	517.4	512.2
45°	5644.3	3857.0	1672.4	1013.9	689.9	569.7	522.6	496.5	491.3	496.5	496.5
47.5°	5947.5	3951.0	1630.6	951.2	684.6	548.8	506.9	475.6	470.4	475.6	470.4
50°	6234.9	4034.7	1609.7	867.6	674.2	527.9	486.0	454.7	449.5	454.7	449.5
52.5°	6475.3	4071.2	1573.1	810.1	648.1	506.9	465.1	433.8	423.3	428.6	428.6
55°	6668.7	4060.8	1520.8	763.0	601.0	486.0	439.0	412.9	397.2	397.2	392.0
57.5°	6846.4	4066.0	1473.8	716.0	548.8	454.7	418.1	386.7	365.8	360.6	355.4
60°	6914.3	4039.9	1390.2	653.3	496.5	428.6	392.0	355.4	334.5	329.3	324.0
62.5°	6820.2	3945.8	1280.4	543.5	449.5	397.2	365.8	329.3	308.3	303.1	297.9
65°	6553.7	3768.1	1113.2	428.6	407.6	360.6	334.5	308.3	282.2	271.8	266.5
67.5°	6099.0	3512.0	904.1	344.9	360.6	329.3	313.6	282.2	250.9	240.4	235.2
70°	5451.0	3172.3	679.4	292.7	318.8	292.7	282.2	250.9	224.7	214.3	209.0
72.5°	4541.6	2623.6	475.6	250.9	277.0	256.1	245.6	224.7	198.6	182.9	182.9
75°	3433.6	1881.4	313.6	214.3	230.0	219.5	203.8	188.1	172.5	162.0	156.8
77.5°	1479.0	731.7	193.4	162.0	188.1	182.9	162.0	151.6	146.3	135.9	135.9
80°	637.6	297.9	120.2	120.2	135.9	130.7	125.4	115.0	115.0	109.8	104.5
82.5°	235.2	120.2	73.2	88.8	99.3	88.8	88.8	88.8	88.8	83.6	83.6
85°	57.5	36.6	36.6	52.3	57.5	52.3	57.5	52.3	52.3	52.3	47.0
87.5°	15.7	15.7	20.9	20.9	20.9	20.9	20.9	15.7	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)