

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: P841095

Luminaire Tested: **ARCH4-130-730-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841095
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: ARCH4-130-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1080mA 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: 14930 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 132
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

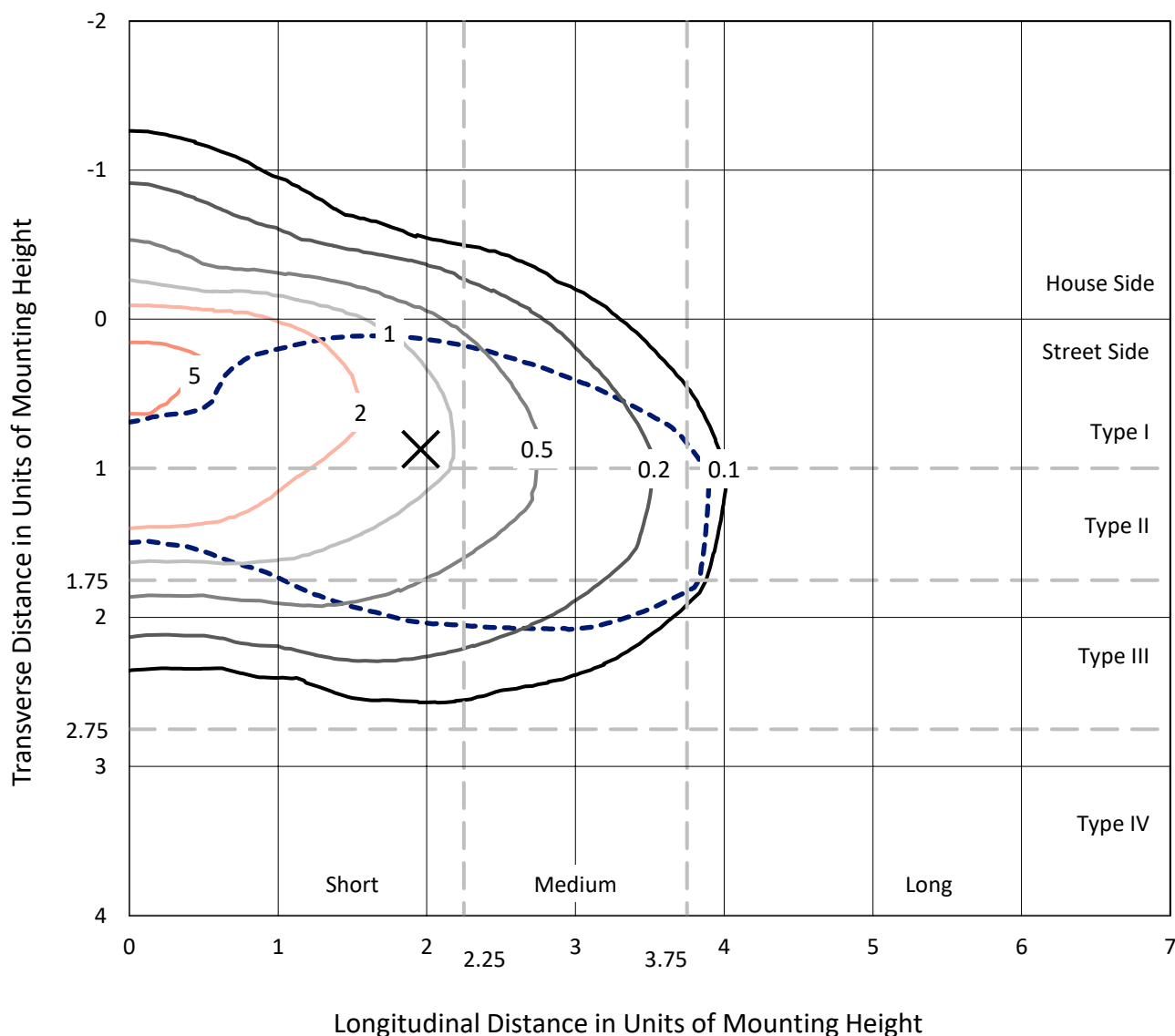


REPORT NUMBER: P841095
 CATALOG NUMBER: ARCH4-130-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

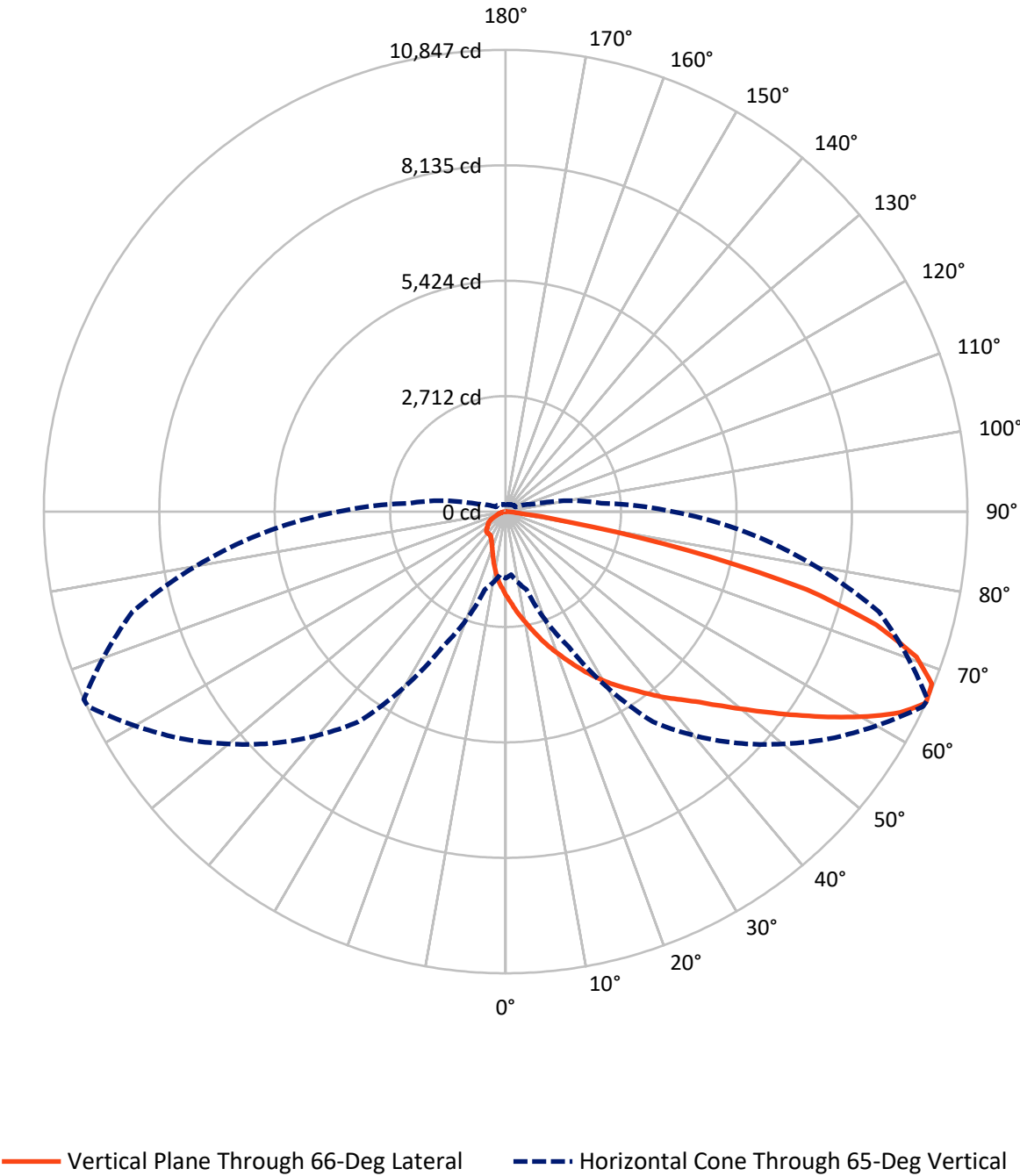


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc

Type III - Short - N/A

REPORT NUMBER: P841095
CATALOG NUMBER: ARCH4-130-730-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P841095

CATALOG NUMBER: ARCH4-130-730-U-T3-HSS

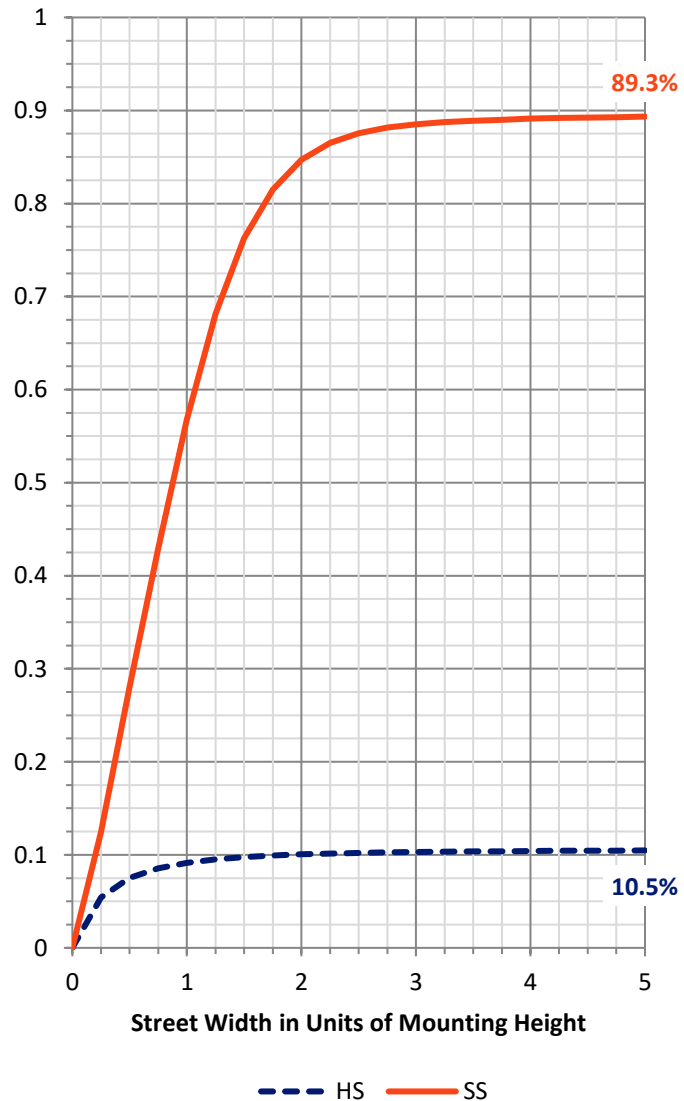
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1579.2	0.0	1579.2
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	13350.8	0.0	13350.8
	% Fixture	89.4	0.0	89.4
Total	Lumens	14930.0	0.0	14930.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.0	1.3
10°-20°	635.6	4.3
20°-30°	1150.1	7.7
30°-40°	1798.4	12.0
40°-50°	2728.1	18.3
50°-60°	3466.2	23.2
60°-70°	3238.8	21.7
70°-80°	1609.7	10.8
80°-90°	108.1	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°	14930.0	100.0
0°-180°	14930.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841095

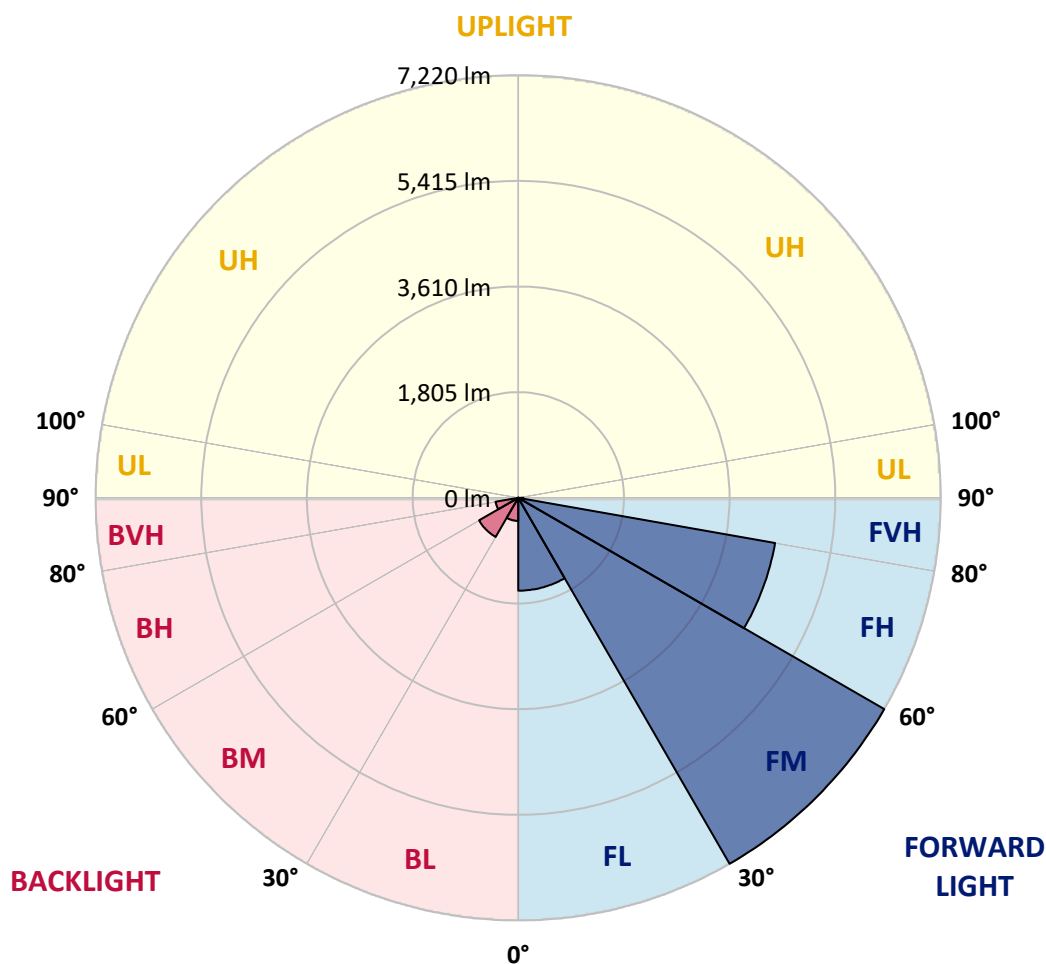
CATALOG NUMBER: ARCH4-130-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1586.3	10.6			
FM	(30°-60°)	7220.3	48.4			
FH	(60°-80°)	4455.2	29.8			G2/5000
FVH	(80°-90°)	89.0	0.6			G1/100
BL	(0°-30°)	394.4	2.6	B1/500		
BM	(30°-60°)	772.4	5.2	B1/1000		
BH	(60°-80°)	393.3	2.6	B1/500		G1/500
BVH	(80°-90°)	19.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



REPORT NUMBER: P841095

CATALOG NUMBER: ARCH4-130-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9
2.5°	2307.8	2326.6	2336.0	2339.1	2267.1	2235.8	2204.5	2132.5	2116.8	2076.1	2022.9
5°	2714.9	2740.0	2733.7	2721.2	2633.5	2533.3	2451.9	2317.2	2295.3	2198.2	2079.2
7.5°	3115.7	3137.6	3131.4	3084.4	2987.3	2846.4	2711.8	2514.5	2483.2	2326.6	2135.6
10°	3450.8	3469.6	3466.4	3419.5	3303.6	3131.4	2968.6	2705.5	2667.9	2445.6	2182.6
12.5°	3726.3	3751.4	3748.3	3717.0	3613.6	3425.7	3241.0	2924.7	2877.7	2589.7	2248.3
15°	3942.4	3973.7	3973.7	3961.2	3889.2	3732.6	3522.8	3165.8	3109.5	2755.6	2329.8
17.5°	4073.9	4099.0	4120.9	4142.8	4092.7	3973.7	3782.7	3406.9	3347.4	2918.5	2414.3
20°	4142.8	4167.9	4183.5	4230.5	4239.9	4180.4	4030.1	3644.9	3582.3	3103.2	2511.4
22.5°	4255.6	4277.5	4280.6	4321.3	4340.1	4355.8	4261.8	3879.8	3829.7	3306.7	2621.0
25°	4443.4	4468.5	4459.1	4477.9	4481.0	4499.8	4490.4	4149.1	4099.0	3538.5	2752.5
27.5°	4684.6	4715.9	4709.6	4690.8	4662.6	4647.0	4687.7	4421.5	4374.5	3770.2	2887.1
30°	4944.5	4982.0	4972.6	4935.1	4859.9	4794.1	4850.5	4678.3	4634.4	4008.2	3037.4
32.5°	5207.5	5251.3	5248.2	5185.6	5057.2	4944.5	5029.0	4919.4	4888.1	4264.9	3200.3
35°	5379.7	5436.1	5429.8	5392.2	5226.3	5129.2	5232.5	5166.8	5144.9	4578.1	3435.1
37.5°	5658.4	5717.9	5664.7	5570.7	5379.7	5329.6	5454.9	5445.5	5429.8	4910.0	3682.5
40°	6334.8	6422.5	6281.6	5896.4	5583.3	5539.4	5717.9	5755.5	5739.8	5238.8	3904.8
42.5°	7042.5	7174.0	6954.8	6422.5	5952.8	5793.1	6006.0	6059.2	6040.4	5520.6	4105.2
45°	7471.5	7527.8	7308.7	6895.3	6607.2	6099.9	6312.9	6400.5	6384.9	5858.8	4362.0
47.5°	7822.2	7800.3	7549.8	7271.1	7324.3	6532.1	6660.5	6832.7	6820.2	6231.5	4643.8
50°	7897.4	7847.2	7747.0	7571.7	7712.6	6970.5	7026.8	7324.3	7311.8	6644.8	4928.8
52.5°	7368.1	7302.4	7574.8	7722.0	7675.0	7289.9	7430.8	7862.9	7856.6	7092.6	5201.2
55°	6046.7	5993.5	6726.2	7487.1	7634.3	7515.3	7878.6	8423.4	8457.9	7568.6	5448.6
57.5°	4756.6	4700.2	5420.4	6898.4	7484.0	7722.0	8401.5	9065.4	9109.2	8085.2	5683.5
60°	3792.1	3707.6	4258.7	5971.6	7202.2	7881.7	8905.7	9769.9	9776.2	8558.1	5827.5
62.5°	2577.1	2483.2	3093.8	4797.3	6729.3	7906.7	9293.9	10377.4	10402.5	8911.9	5852.6
65°	1565.7	1487.4	1900.8	3504.0	6031.0	7693.8	9300.2	10825.2	10847.1	9074.8	5702.3
67.5°	908.1	876.8	1086.6	2182.6	4872.4	7120.8	8908.8	10756.3	10797.0	9005.9	5360.9
70°	529.2	526.1	604.4	1080.3	3438.3	5984.1	8035.1	10177.0	10236.5	8645.8	4838.0
72.5°	388.3	394.6	425.9	579.3	1991.6	4308.8	6804.5	9012.1	9102.9	7941.2	4092.7
75°	306.9	310.0	338.2	394.6	1045.9	2436.2	5097.9	7233.5	7305.5	6685.5	3197.1
77.5°	228.6	234.9	256.8	278.7	485.4	1117.9	2868.3	4456.0	4337.0	3670.0	1543.8
80°	166.0	181.6	191.0	200.4	256.8	432.1	861.1	1553.2	1540.6	1603.3	729.6
82.5°	106.5	119.0	128.4	134.6	153.4	206.7	256.8	347.6	375.8	623.1	291.2
85°	47.0	53.2	59.5	72.0	65.8	72.0	106.5	68.9	59.5	93.9	53.2
87.5°	0.0	0.0	9.4	15.7	12.5	6.3	18.8	12.5	9.4	9.4	9.4
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: P841095

CATALOG NUMBER: ARCH4-130-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9	1975.9
2.5°	1994.7	1960.2	1888.2	1819.3	1778.6	1725.4	1678.4	1634.6	1631.5	1618.9	1597.0
5°	2019.7	1954.0	1819.3	1690.9	1593.9	1490.5	1402.9	1334.0	1308.9	1290.1	1265.1
7.5°	2044.8	1941.5	1741.0	1553.2	1399.7	1255.7	1152.3	1058.4	1030.2	1005.2	989.5
10°	2054.2	1919.5	1650.2	1399.7	1199.3	1045.9	936.3	867.4	842.3	829.8	820.4
12.5°	2082.4	1907.0	1565.7	1255.7	1024.0	883.1	804.8	764.1	754.7	745.3	735.9
15°	2119.9	1907.0	1481.1	1114.8	886.2	773.5	726.5	698.3	692.0	688.9	682.6
17.5°	2160.7	1907.0	1399.7	995.8	786.0	701.4	667.0	651.3	648.2	645.1	641.9
20°	2217.0	1910.1	1312.1	892.4	714.0	648.2	620.0	601.2	598.1	595.0	595.0
22.5°	2273.4	1916.4	1227.5	814.2	667.0	607.5	573.0	554.3	548.0	548.0	548.0
25°	2345.4	1935.2	1149.2	748.4	626.3	569.9	526.1	510.4	507.3	507.3	504.2
27.5°	2430.0	1957.1	1080.3	698.3	585.6	526.1	482.2	466.6	460.3	460.3	457.2
30°	2520.8	1979.0	1024.0	660.7	544.9	482.2	441.5	422.7	416.5	419.6	416.5
32.5°	2621.0	2010.3	980.1	635.7	507.3	444.7	407.1	385.2	382.0	382.0	378.9
35°	2790.1	2098.0	973.9	623.1	476.0	416.5	378.9	357.0	353.8	353.8	350.7
37.5°	2971.7	2198.2	1002.0	616.9	450.9	391.4	357.0	335.1	331.9	331.9	331.9
40°	3125.1	2273.4	1033.4	616.9	435.3	369.5	338.2	319.4	319.4	319.4	319.4
42.5°	3228.5	2279.6	1027.1	616.9	422.7	353.8	325.7	306.9	306.9	310.0	306.9
45°	3381.9	2311.0	1002.0	607.5	413.3	341.3	313.1	297.5	294.4	297.5	297.5
47.5°	3563.5	2367.3	977.0	569.9	410.2	328.8	303.7	285.0	281.8	285.0	281.8
50°	3735.7	2417.4	964.5	519.8	403.9	316.3	291.2	272.4	269.3	272.4	269.3
52.5°	3879.8	2439.3	942.5	485.4	388.3	303.7	278.7	259.9	253.6	256.8	256.8
55°	3995.6	2433.1	911.2	457.2	360.1	291.2	263.0	247.4	238.0	238.0	234.9
57.5°	4102.1	2436.2	883.1	429.0	328.8	272.4	250.5	231.7	219.2	216.1	212.9
60°	4142.8	2420.6	832.9	391.4	297.5	256.8	234.9	212.9	200.4	197.3	194.1
62.5°	4086.5	2364.2	767.2	325.7	269.3	238.0	219.2	197.3	184.8	181.6	178.5
65°	3926.8	2257.7	667.0	256.8	244.2	216.1	200.4	184.8	169.1	162.8	159.7
67.5°	3654.3	2104.3	541.7	206.7	216.1	197.3	187.9	169.1	150.3	144.0	140.9
70°	3266.0	1900.8	407.1	175.4	191.0	175.4	169.1	150.3	134.6	128.4	125.3
72.5°	2721.2	1572.0	285.0	150.3	166.0	153.4	147.2	134.6	119.0	109.6	109.6
75°	2057.3	1127.3	187.9	128.4	137.8	131.5	122.1	112.7	103.3	97.1	93.9
77.5°	886.2	438.4	115.9	97.1	112.7	109.6	97.1	90.8	87.7	81.4	81.4
80°	382.0	178.5	72.0	72.0	81.4	78.3	75.2	68.9	68.9	65.8	62.6
82.5°	140.9	72.0	43.8	53.2	59.5	53.2	53.2	53.2	53.2	50.1	50.1
85°	34.4	21.9	21.9	31.3	34.4	31.3	34.4	31.3	31.3	31.3	28.2
87.5°	9.4	9.4	12.5	12.5	12.5	12.5	12.5	9.4	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)