

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: P836042

Luminaire Tested: **ARCH3-130-730-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-130-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13207 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

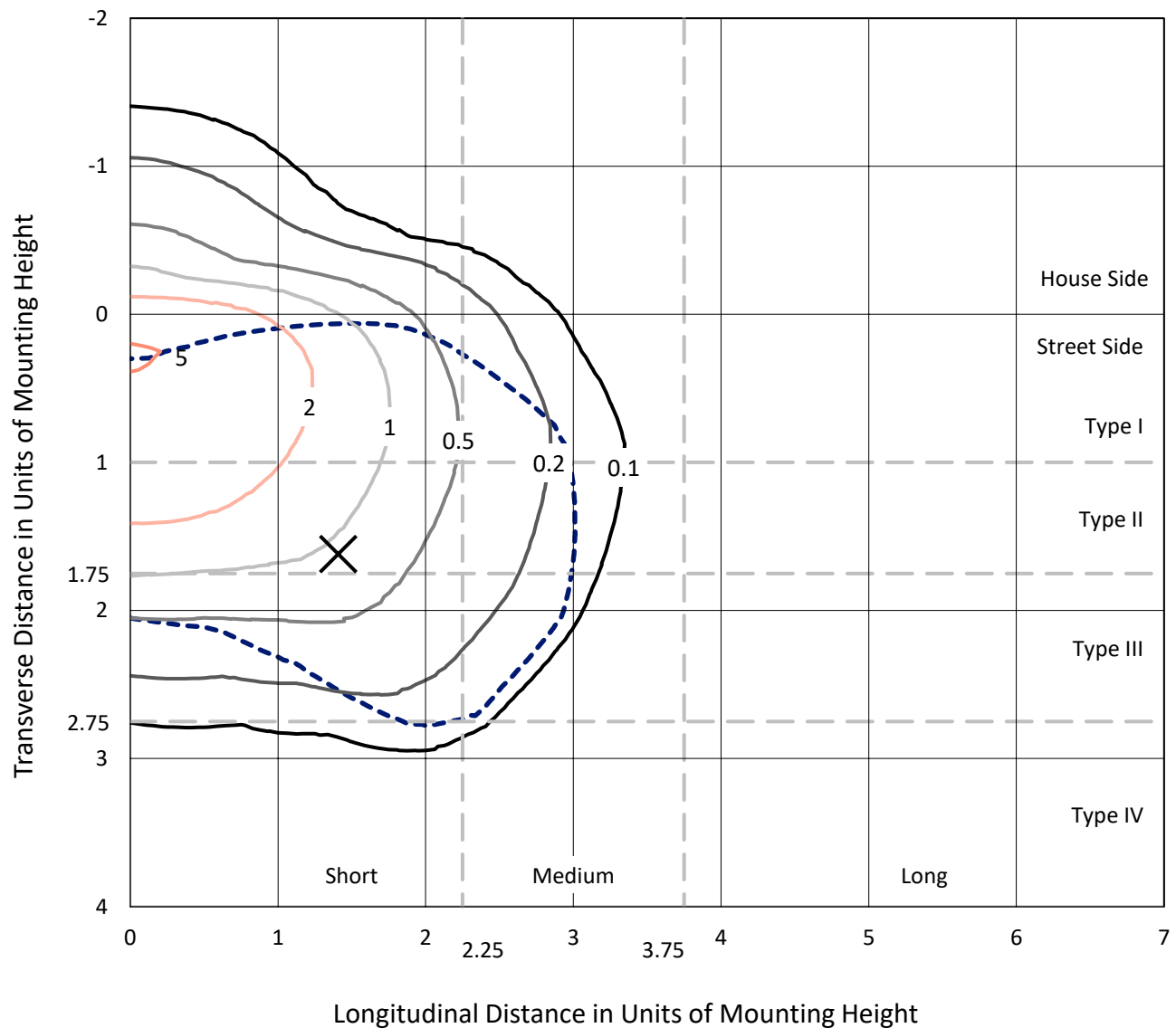
Input Watts (W): 132.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P836042
CATALOG NUMBER: ARCH3-130-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

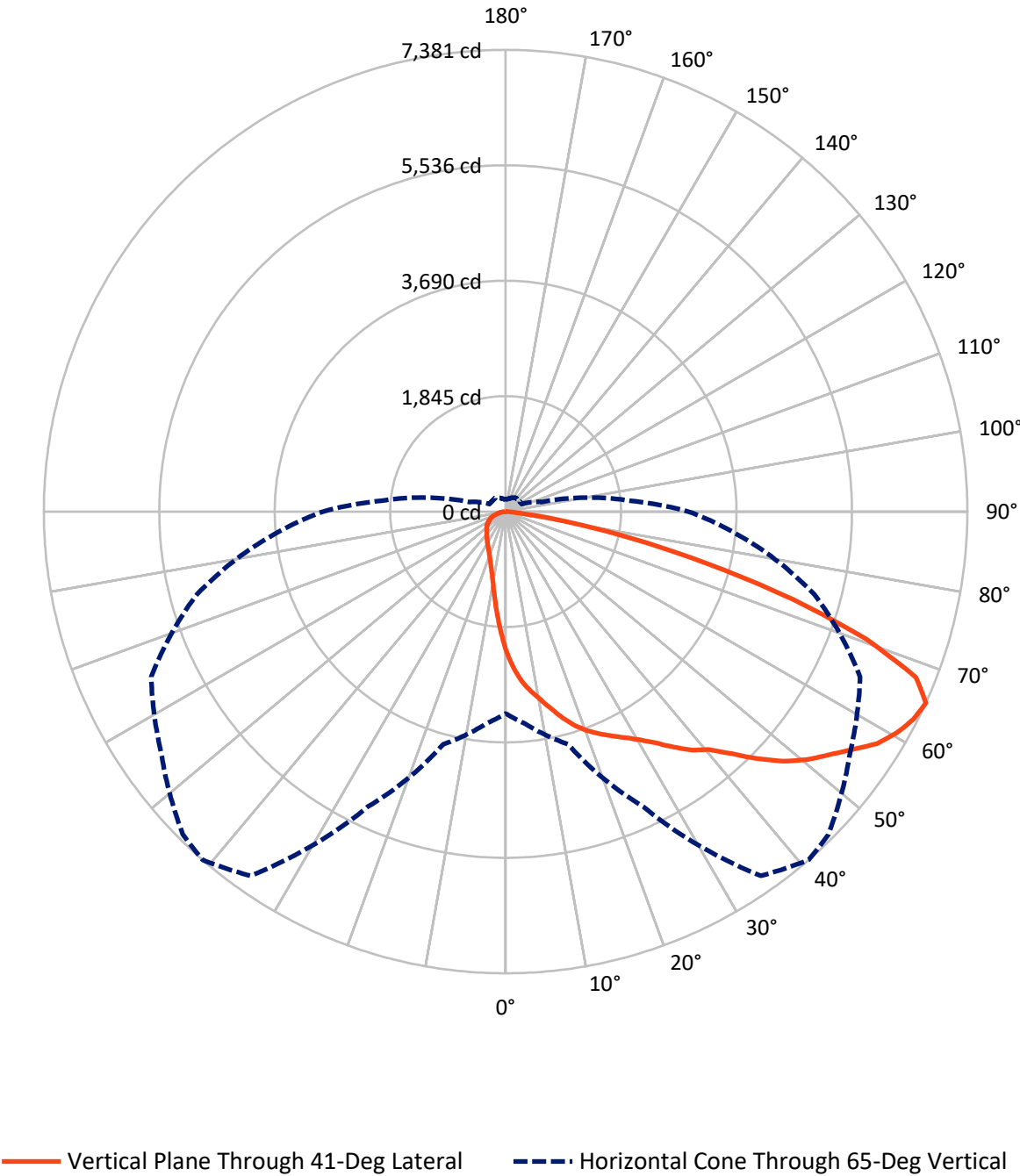
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type III - Short - N/A

REPORT NUMBER: P836042
CATALOG NUMBER: ARCH3-130-730-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P836042

CATALOG NUMBER: ARCH3-130-730-U-T4W-HSS

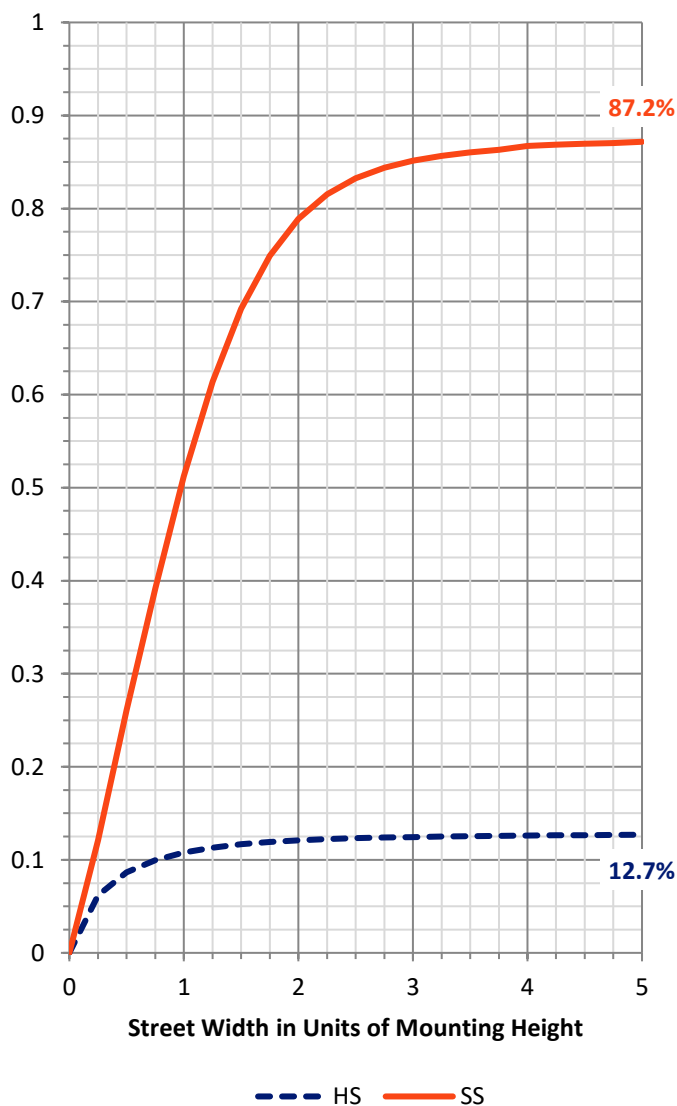
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1695.6	0.0	1695.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	11511.4	0.0	11511.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	13207.0	0.0	13207.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.7	1.6
10°-20°	628.7	4.8
20°-30°	1081.6	8.2
30°-40°	1640.5	12.4
40°-50°	2403.4	18.2
50°-60°	3034.9	23.0
60°-70°	2845.8	21.5
70°-80°	1268.4	9.6
80°-90°	94.0	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°	13207.0	100.0
0°-180°	13207.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836042

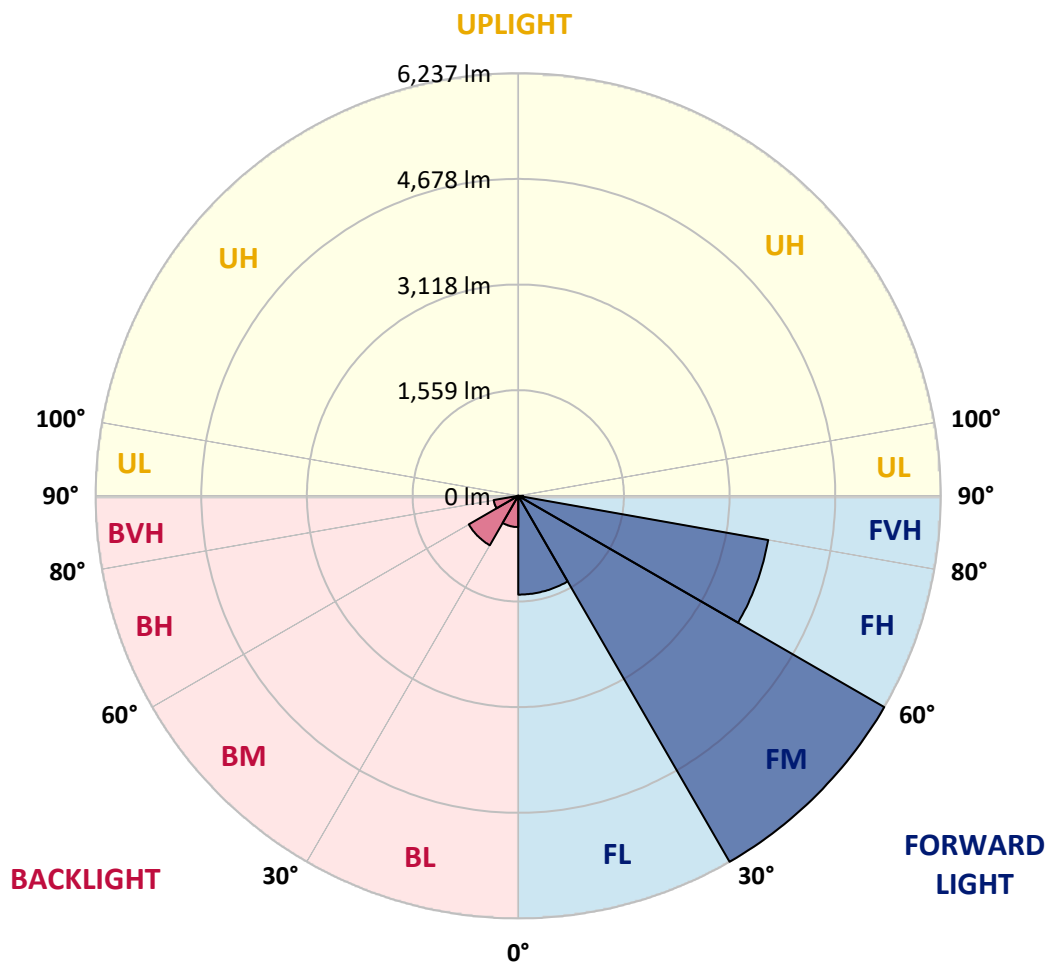
CATALOG NUMBER: ARCH3-130-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1458.5	11.0			
FM	(30°-60°)	6236.9	47.2			
FH	(60°-80°)	3745.8	28.4			G2/5000
FVH	(80°-90°)	70.2	0.5			G1/100
BL	(0°-30°)	461.5	3.5	B1/500		
BM	(30°-60°)	841.9	6.4	B1/1000		
BH	(60°-80°)	368.3	2.8	B1/500		G1/500
BVH	(80°-90°)	23.8	0.2			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: P836042

CATALOG NUMBER: ARCH3-130-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2250.4	2250.4	2250.4	2250.4	2250.4	2250.4	2250.4	2250.4	2250.4	2250.4	2250.4
2.5°	2595.8	2587.4	2581.8	2551.2	2551.2	2509.4	2512.2	2473.2	2425.9	2350.7	2269.9
5°	2840.9	2829.7	2815.8	2785.2	2774.0	2732.2	2726.7	2671.0	2590.2	2459.3	2314.5
7.5°	3055.3	3044.2	3024.7	2980.1	2949.5	2899.3	2885.4	2813.0	2723.9	2562.3	2359.0
10°	3250.3	3241.9	3216.9	3161.1	3119.4	3058.1	3033.0	2935.6	2824.1	2645.9	2395.2
12.5°	3448.0	3436.9	3403.5	3356.1	3306.0	3233.6	3202.9	3077.6	2935.6	2737.8	2448.1
15°	3631.8	3615.1	3590.1	3539.9	3495.4	3425.7	3392.3	3244.7	3072.0	2840.9	2517.8
17.5°	3751.6	3737.7	3715.4	3687.5	3651.3	3598.4	3565.0	3420.2	3208.5	2941.1	2590.2
20°	3824.0	3818.4	3810.1	3793.4	3776.7	3740.5	3715.4	3578.9	3356.1	3038.6	2659.8
22.5°	3879.7	3874.1	3871.4	3871.4	3874.1	3860.2	3843.5	3726.5	3498.2	3141.7	2723.9
25°	3966.1	3963.3	3957.7	3952.1	3971.6	3974.4	3968.8	3888.1	3676.4	3278.1	2804.6
27.5°	4085.8	4077.5	4066.3	4060.8	4080.2	4094.2	4105.3	4049.6	3865.8	3417.4	2896.6
30°	4269.6	4244.6	4216.7	4197.2	4211.2	4233.4	4258.5	4225.1	4060.8	3590.1	2991.3
32.5°	4486.9	4456.2	4392.2	4356.0	4392.2	4408.9	4428.4	4411.7	4264.1	3776.7	3085.9
35°	4751.5	4715.3	4648.4	4595.5	4659.6	4623.4	4615.0	4598.3	4456.2	3960.5	3191.8
37.5°	5191.5	5138.6	5032.8	4915.8	4915.8	4837.8	4807.2	4757.0	4628.9	4124.8	3294.8
40°	5701.2	5631.6	5495.1	5322.4	5163.7	5002.1	4982.6	4946.4	4832.2	4314.2	3411.8
42.5°	6261.0	6127.3	5937.9	5729.1	5472.8	5289.0	5244.4	5141.4	5030.0	4506.4	3528.8
45°	6882.1	6603.6	6327.9	6222.0	5798.7	5631.6	5548.0	5361.4	5236.1	4706.9	3651.3
47.5°	6982.4	6765.1	6581.3	6564.6	6102.3	5963.0	5868.3	5600.9	5458.9	4921.4	3779.5
50°	6926.7	6795.8	6815.3	6748.4	6325.1	6233.2	6160.8	5857.2	5678.9	5127.5	3896.4
52.5°	6692.7	6765.1	6876.5	6754.0	6536.8	6461.6	6425.3	6132.9	5885.0	5316.9	4002.3
55°	6414.2	6464.3	6703.9	6854.3	6781.8	6715.0	6681.6	6453.2	6088.3	5475.6	4099.7
57.5°	6007.6	5985.3	6249.9	6837.6	7038.1	6999.1	6962.9	6767.9	6277.7	5589.8	4161.0
60°	5397.6	5350.3	5684.5	6503.3	7121.6	7182.9	7166.2	6976.8	6422.6	5587.0	4136.0
62.5°	4342.1	4459.0	4921.4	5957.4	7157.8	7313.8	7283.2	6993.5	6469.9	5425.5	3977.2
65°	3228.0	3395.1	3849.1	5205.5	7107.7	7380.7	7297.1	6720.6	6249.9	5105.2	3629.1
67.5°	2325.6	2473.2	2804.6	4283.6	6625.9	7074.3	6976.8	6275.0	5743.0	4651.2	3147.2
70°	1590.3	1696.2	1921.8	3119.4	5656.6	6116.2	6054.9	5609.3	4943.6	4110.9	2556.8
72.5°	1122.4	1167.0	1311.8	2058.2	4297.5	4798.8	4726.4	4615.0	3971.6	3417.4	1988.6
75°	841.1	869.0	947.0	1331.3	2899.3	3325.5	3258.6	3322.7	2966.2	2587.4	1448.3
77.5°	317.5	345.4	537.5	849.5	1715.7	2041.5	1974.7	2013.7	1648.8	1306.2	721.4
80°	86.3	91.9	178.2	403.8	779.8	1016.6	924.7	793.8	612.7	601.6	381.6
82.5°	36.2	41.8	80.8	217.2	278.5	278.5	234.0	289.7	234.0	281.3	183.8
85°	13.9	16.7	19.5	55.7	36.2	39.0	41.8	55.7	47.3	58.5	41.8
87.5°	0.0	0.0	0.0	2.8	2.8	5.6	2.8	5.6	8.4	8.4	8.4
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: P836042

CATALOG NUMBER: ARCH3-130-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2250.4	2250.4	2250.4	2250.4	2250.4	2250.4	2250.4	2250.4	2250.4	2250.4	2250.4
2.5°	2236.5	2205.8	2161.3	2088.9	2013.7	1971.9	1919.0	1910.6	1854.9	1849.3	1827.1
5°	2250.4	2186.3	2072.2	1932.9	1796.4	1690.6	1612.6	1570.8	1490.1	1490.1	1467.8
7.5°	2261.5	2161.3	1977.5	1771.4	1584.8	1442.7	1336.9	1292.3	1219.9	1214.3	1197.6
10°	2264.3	2130.6	1874.4	1607.0	1378.7	1233.8	1130.8	1080.6	1016.6	1011.0	999.9
12.5°	2286.6	2113.9	1782.5	1465.0	1231.0	1075.1	974.8	933.0	882.9	877.3	866.2
15°	2322.8	2113.9	1704.5	1345.2	1100.1	955.3	869.0	830.0	793.8	788.2	782.6
17.5°	2359.0	2108.4	1626.5	1233.8	991.5	860.6	785.4	754.8	726.9	724.1	718.6
20°	2392.4	2105.6	1548.5	1139.1	908.0	782.6	724.1	696.3	674.0	674.0	671.2
22.5°	2425.9	2100.0	1473.3	1050.0	835.5	724.1	674.0	643.4	626.7	626.7	623.9
25°	2476.0	2100.0	1403.7	974.8	777.1	679.6	629.4	607.2	593.2	590.5	590.5
27.5°	2534.5	2116.7	1342.4	908.0	726.9	635.0	596.0	573.7	557.0	551.5	554.2
30°	2598.5	2130.6	1286.7	849.5	679.6	601.6	559.8	537.5	520.8	515.3	518.0
32.5°	2662.6	2147.4	1236.6	796.6	632.2	571.0	529.2	504.1	487.4	484.6	484.6
35°	2732.2	2164.1	1186.5	752.0	593.2	540.3	501.3	473.5	462.3	456.8	459.6
37.5°	2801.9	2191.9	1139.1	710.2	565.4	512.5	476.3	448.4	440.1	437.3	437.3
40°	2885.4	2233.7	1119.6	682.4	540.3	487.4	456.8	428.9	420.6	420.6	420.6
42.5°	2955.0	2267.1	1102.9	651.7	520.8	465.1	437.3	415.0	409.4	406.6	409.4
45°	3024.7	2297.8	1080.6	623.9	495.8	442.8	420.6	398.3	392.7	392.7	392.7
47.5°	3094.3	2314.5	1050.0	596.0	473.5	423.3	403.8	384.4	378.8	378.8	378.8
50°	3150.0	2328.4	1005.4	565.4	448.4	406.6	387.1	367.6	362.1	362.1	362.1
52.5°	3205.7	2331.2	958.1	529.2	423.3	387.1	370.4	350.9	345.4	342.6	342.6
55°	3255.8	2328.4	902.4	487.4	395.5	364.9	350.9	334.2	323.1	311.9	317.5
57.5°	3292.1	2325.6	838.3	445.6	367.6	342.6	337.0	314.7	292.4	264.6	270.2
60°	3278.1	2295.0	768.7	392.7	337.0	320.3	320.3	289.7	250.7	236.7	239.5
62.5°	3189.0	2208.6	696.3	337.0	306.4	298.0	295.2	261.8	231.2	217.2	220.0
65°	2921.6	1991.4	590.5	286.9	275.7	272.9	272.9	242.3	214.5	197.7	200.5
67.5°	2515.0	1671.1	481.8	242.3	245.1	250.7	250.7	222.8	195.0	178.2	181.0
70°	2016.5	1306.2	384.4	208.9	211.7	220.0	225.6	200.5	175.5	158.8	158.8
72.5°	1517.9	991.5	309.2	175.5	189.4	189.4	197.7	178.2	153.2	136.5	139.3
75°	1100.1	710.2	245.1	147.6	164.3	161.5	161.5	150.4	130.9	119.8	119.8
77.5°	520.8	373.2	195.0	105.8	128.1	125.3	128.1	119.8	111.4	100.3	103.1
80°	256.2	183.8	125.3	75.2	89.1	91.9	100.3	94.7	91.9	83.6	83.6
82.5°	122.5	72.4	58.5	52.9	61.3	64.1	69.6	69.6	72.4	66.8	66.8
85°	33.4	19.5	25.1	33.4	39.0	41.8	47.3	50.1	50.1	47.3	50.1
87.5°	8.4	8.4	11.1	16.7	19.5	22.3	25.1	25.1	11.1	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)