

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: P836029

Luminaire Tested: **ARCH3-130-727-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-130-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12863 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - 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

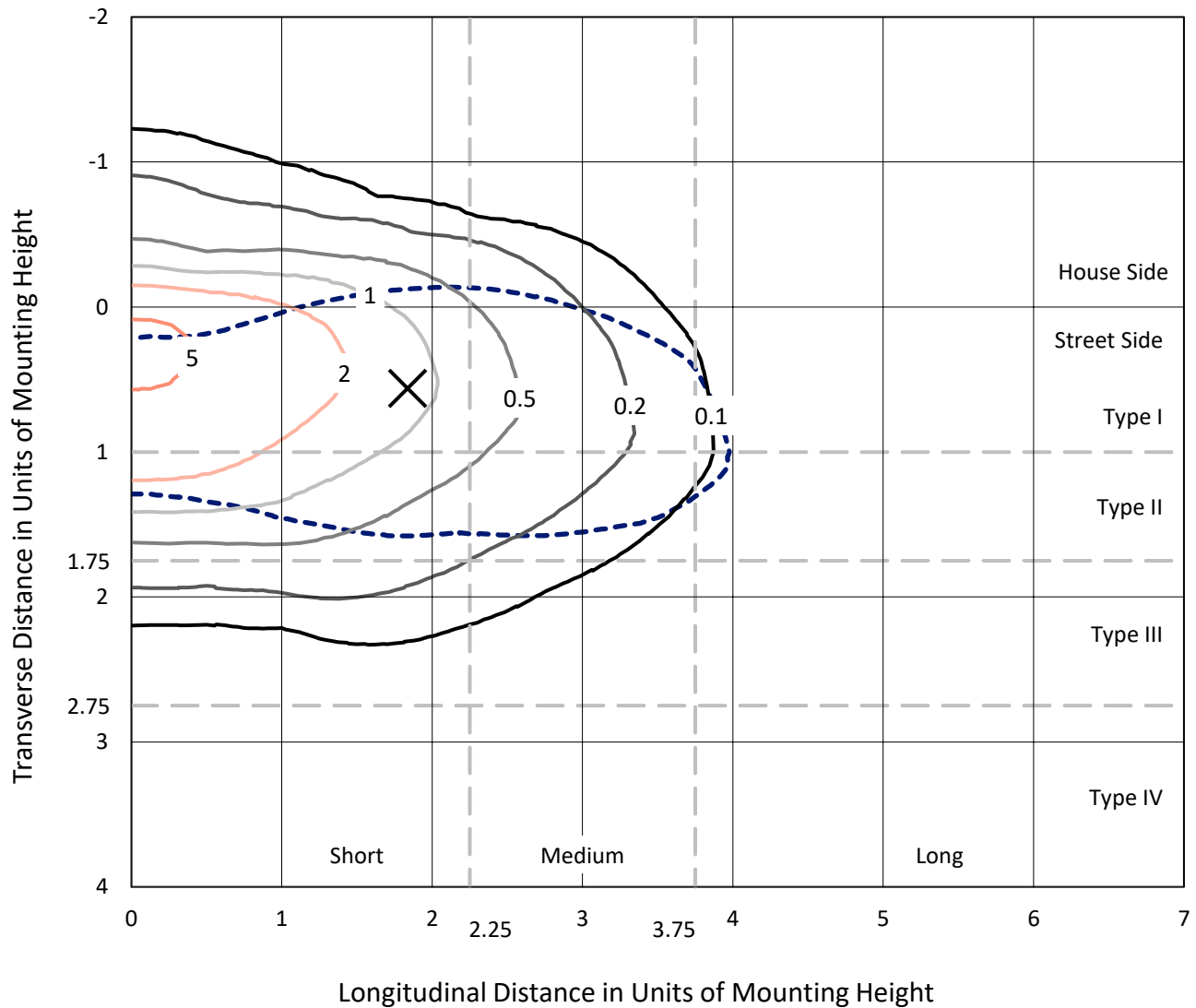


REPORT NUMBER: P836029

CATALOG NUMBER: ARCH3-130-727-U-T2U-HSS

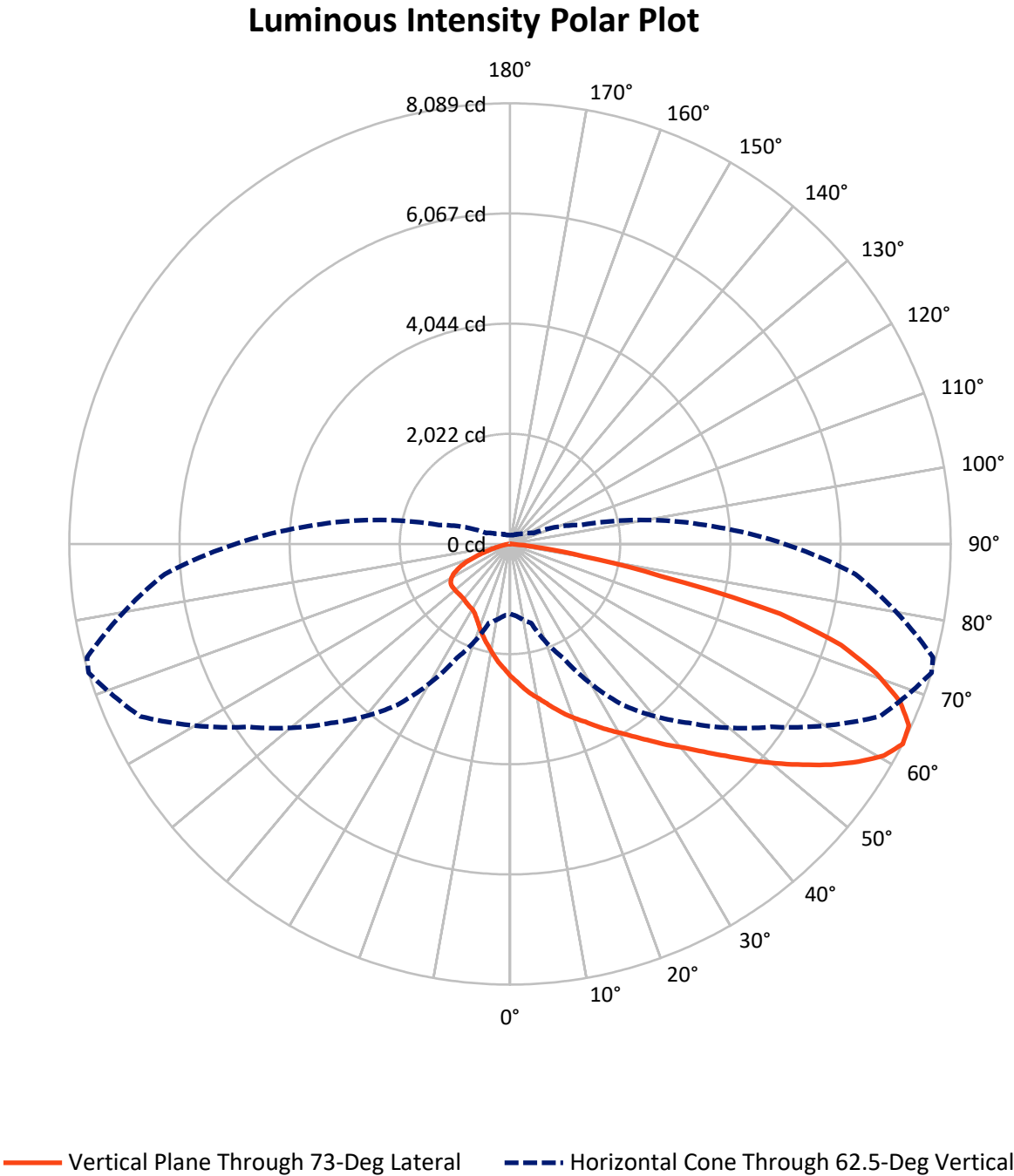
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type II - Short - N/A

REPORT NUMBER: P836029
CATALOG NUMBER: ARCH3-130-727-U-T2U-HSS



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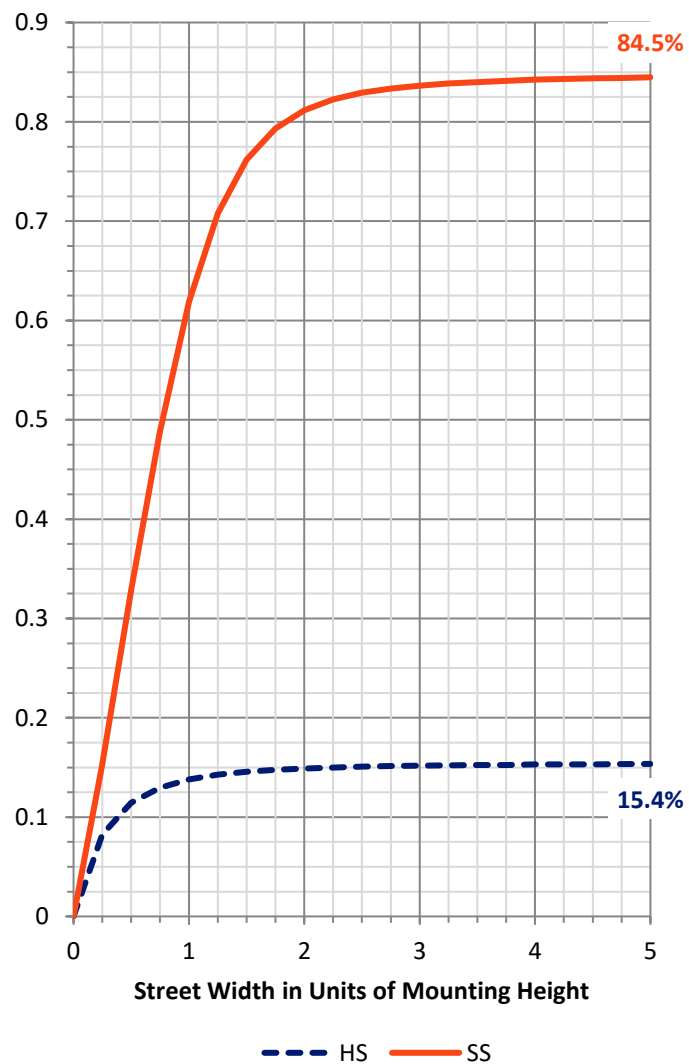
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1994.0	0.0	1994.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	10869.1	0.0	10869.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	12863.0	0.0	12863.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.3	1.8
10°-20°	710.0	5.5
20°-30°	1181.8	9.2
30°-40°	1783.2	13.9
40°-50°	2492.5	19.4
50°-60°	2753.1	21.4
60°-70°	2398.3	18.6
70°-80°	1211.5	9.4
80°-90°	97.2	0.8
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°	12863.0	100.0
0°-180°	12863.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836029

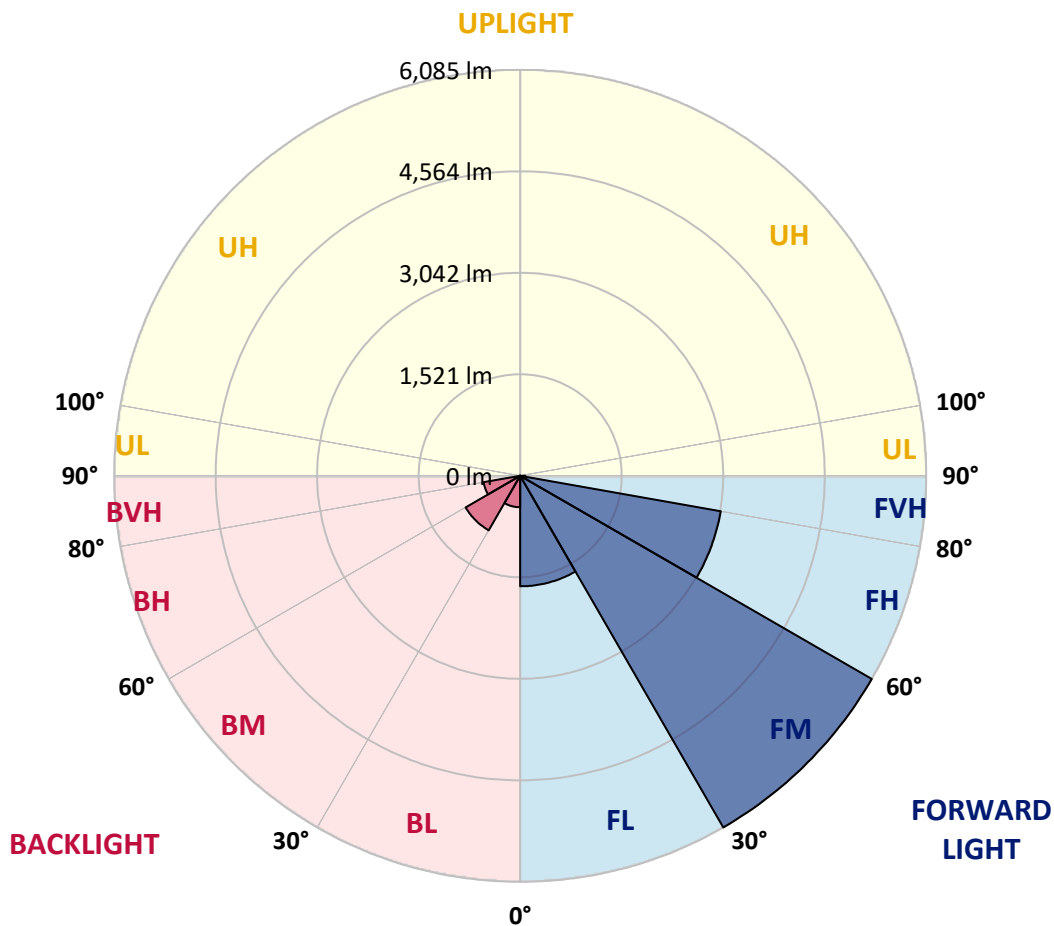
CATALOG NUMBER: ARCH3-130-727-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1655.9	12.9			
FM	(30°-60°)	6084.7	47.3			
FH	(60°-80°)	3053.3	23.7			G2/5000
FVH	(80°-90°)	75.3	0.6			G1/100
BL	(0°-30°)	471.3	3.7	B1/500		
BM	(30°-60°)	944.1	7.3	B1/1000		
BH	(60°-80°)	556.5	4.3	B2/1000		G2/1000
BVH	(80°-90°)	22.0	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-G2

Type II Short



REPORT NUMBER: P836029

CATALOG NUMBER: ARCH3-130-727-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6
2.5°	2772.0	2802.8	2786.0	2797.2	2741.1	2704.7	2662.7	2581.4	2536.5	2530.9	2477.7
5°	3178.4	3212.0	3184.0	3175.6	3077.5	2993.4	2898.1	2755.2	2659.9	2643.0	2525.3
7.5°	3584.8	3615.6	3582.0	3556.8	3425.0	3276.5	3136.3	2926.1	2777.6	2749.6	2564.6
10°	3870.7	3898.7	3873.5	3848.2	3710.9	3559.6	3360.6	3085.9	2884.1	2839.2	2589.8
12.5°	4086.5	4103.3	4092.1	4069.7	3940.7	3778.2	3587.6	3265.3	3004.6	2948.5	2629.0
15°	4263.1	4291.1	4277.1	4260.3	4136.9	3974.4	3792.2	3453.1	3144.7	3074.7	2687.9
17.5°	4380.8	4400.4	4403.2	4403.2	4293.9	4134.1	3957.6	3624.0	3284.9	3195.2	2743.9
20°	4434.0	4456.5	4470.5	4492.9	4403.2	4265.9	4086.5	3769.8	3416.6	3315.7	2797.2
22.5°	4459.3	4478.9	4515.3	4565.8	4492.9	4378.0	4212.6	3904.3	3548.3	3441.8	2858.9
25°	4478.9	4504.1	4557.4	4652.7	4602.2	4504.1	4361.2	4058.5	3705.3	3596.0	2948.5
27.5°	4532.1	4563.0	4613.4	4728.3	4666.7	4619.0	4518.1	4223.8	3870.7	3758.6	3057.9
30°	4717.1	4742.3	4739.5	4812.4	4736.7	4722.7	4652.7	4383.6	4030.4	3918.3	3186.8
32.5°	5053.5	5078.7	5017.0	4989.0	4823.6	4826.4	4798.4	4554.6	4221.0	4106.1	3335.3
35°	5415.0	5443.0	5361.8	5314.1	5036.6	4955.4	4969.4	4767.6	4434.0	4319.1	3520.3
37.5°	5737.3	5771.0	5700.9	5630.8	5350.6	5162.8	5160.0	5005.8	4677.9	4560.2	3724.9
40°	5913.9	5953.2	5995.2	5956.0	5661.7	5454.3	5364.6	5249.7	4918.9	4798.4	3946.3
42.5°	5998.0	6107.3	6183.0	6157.8	5916.7	5706.5	5600.0	5504.7	5213.2	5095.5	4209.8
45°	5762.6	5765.4	5925.1	6062.5	6017.6	5877.5	5857.9	5790.6	5549.6	5437.4	4506.9
47.5°	5468.3	5445.8	5558.0	5801.8	5927.9	5964.4	6079.3	6107.3	5933.5	5821.4	4809.6
50°	4762.0	4776.0	5140.3	5490.7	5737.3	5972.8	6236.2	6432.4	6328.7	6222.2	5129.1
52.5°	3873.5	3907.1	4324.7	5095.5	5485.1	5888.7	6328.7	6757.6	6732.3	6631.4	5448.7
55°	3105.5	3158.8	3601.6	4436.8	5162.8	5700.9	6368.0	7054.7	7150.0	7057.5	5762.6
57.5°	2374.0	2430.0	2802.8	3660.5	4750.8	5395.4	6339.9	7315.3	7539.5	7480.7	6051.3
60°	1788.2	1844.2	2082.5	2968.2	4235.0	5053.5	6199.8	7486.3	7889.9	7828.2	6261.5
62.5°	1280.9	1325.7	1502.3	2309.5	3607.2	4647.0	5855.1	7489.1	8088.9	8038.4	6362.4
65°	922.1	922.1	1065.1	1648.0	3018.6	4159.4	5333.7	7144.3	8046.8	8032.8	6292.3
67.5°	664.3	669.9	784.8	1152.0	2407.6	3568.0	4658.3	6530.5	7721.7	7791.8	6040.0
70°	470.9	484.9	538.1	804.4	1819.0	2816.8	3935.1	5726.1	7135.9	7259.3	5552.4
72.5°	364.4	372.8	409.2	560.6	1328.5	2093.7	3136.3	4829.2	6354.0	6494.1	4888.1
75°	280.3	288.7	316.7	412.0	953.0	1468.7	2228.2	3747.3	5123.5	5373.0	3926.7
77.5°	204.6	215.8	235.4	299.9	555.0	933.3	1351.0	2107.7	2828.0	2945.7	2057.3
80°	95.3	109.3	137.3	193.4	299.9	440.0	479.3	812.8	1359.4	1421.0	1115.5
82.5°	53.3	67.3	78.5	117.7	151.4	157.0	162.6	204.6	512.9	566.2	468.1
85°	25.2	33.6	36.4	50.5	50.5	44.8	53.3	39.2	84.1	100.9	98.1
87.5°	0.0	2.8	5.6	14.0	11.2	8.4	8.4	8.4	8.4	11.2	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: P836029

CATALOG NUMBER: ARCH3-130-727-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6	2435.6
2.5°	2452.5	2416.0	2331.9	2259.1	2211.4	2169.4	2113.3	2088.1	2043.2	2051.7	2026.4
5°	2466.5	2399.2	2250.7	2113.3	2012.4	1922.7	1824.6	1768.6	1706.9	1701.3	1681.7
7.5°	2474.9	2371.2	2158.2	1964.8	1810.6	1673.3	1541.5	1468.7	1393.0	1376.2	1359.4
10°	2466.5	2329.1	2062.9	1810.6	1606.0	1435.0	1286.5	1194.0	1115.5	1095.9	1079.1
12.5°	2474.9	2306.7	1973.2	1667.7	1423.8	1230.4	1062.3	967.0	894.1	874.5	863.3
15°	2494.5	2292.7	1897.5	1538.7	1261.3	1045.4	880.1	798.8	739.9	720.3	714.7
17.5°	2511.3	2278.7	1816.2	1412.6	1098.7	882.9	739.9	672.7	622.2	602.6	597.0
20°	2533.7	2259.1	1734.9	1292.1	955.8	754.0	627.8	569.0	529.7	515.7	512.9
22.5°	2553.4	2245.0	1659.3	1171.6	824.0	650.3	543.7	496.1	468.1	454.1	454.1
25°	2603.8	2250.7	1594.8	1059.5	725.9	569.0	479.3	442.8	420.4	412.0	412.0
27.5°	2662.7	2273.1	1544.3	964.2	641.8	507.3	434.4	403.6	392.4	381.2	384.0
30°	2746.7	2317.9	1510.7	885.7	580.2	459.7	398.0	375.6	364.4	361.6	361.6
32.5°	2853.3	2390.8	1507.9	835.2	535.3	423.2	372.8	353.2	347.5	344.7	344.7
35°	2979.4	2455.3	1491.1	812.8	507.3	398.0	353.2	339.1	336.3	336.3	336.3
37.5°	3130.7	2561.8	1479.9	782.0	493.3	384.0	339.1	327.9	327.9	327.9	327.9
40°	3287.7	2648.6	1463.1	754.0	487.7	375.6	330.7	316.7	316.7	316.7	316.7
42.5°	3475.5	2774.8	1457.5	739.9	479.3	370.0	319.5	302.7	305.5	305.5	308.3
45°	3702.5	2917.7	1454.7	725.9	476.5	364.4	308.3	288.7	291.5	288.7	288.7
47.5°	3932.3	3083.1	1463.1	717.5	473.7	358.8	299.9	274.7	274.7	271.9	271.9
50°	4173.4	3234.4	1468.7	709.1	468.1	347.5	285.9	263.5	257.9	252.3	255.1
52.5°	4400.4	3374.6	1471.5	695.1	451.3	330.7	274.7	249.4	241.0	232.6	235.4
55°	4627.4	3509.1	1477.1	678.3	428.8	313.9	260.7	235.4	224.2	213.0	213.0
57.5°	4832.0	3626.8	1463.1	636.2	403.6	297.1	246.6	218.6	201.8	190.6	190.6
60°	4972.2	3710.9	1421.0	574.6	370.0	277.5	232.6	201.8	182.2	173.8	173.8
62.5°	5039.4	3724.9	1345.3	473.7	327.9	257.9	215.8	185.0	168.2	162.6	162.6
65°	4975.0	3663.3	1227.6	356.0	283.1	235.4	199.0	171.0	154.2	140.1	140.1
67.5°	4750.8	3489.5	1065.1	269.1	241.0	213.0	182.2	157.0	137.3	126.1	126.1
70°	4299.5	3127.9	824.0	215.8	204.6	185.0	165.4	140.1	123.3	109.3	109.3
72.5°	3708.1	2651.5	580.2	173.8	173.8	157.0	140.1	123.3	106.5	95.3	95.3
75°	2844.8	1962.0	389.6	140.1	142.9	131.7	114.9	100.9	89.7	81.3	81.3
77.5°	1552.8	969.8	238.2	103.7	106.5	100.9	89.7	81.3	75.7	67.3	67.3
80°	754.0	426.0	137.3	72.9	75.7	72.9	67.3	58.9	58.9	53.3	53.3
82.5°	316.7	159.8	72.9	50.5	50.5	44.8	42.0	42.0	42.0	39.2	39.2
85°	78.5	30.8	30.8	28.0	28.0	28.0	25.2	25.2	25.2	19.6	22.4
87.5°	11.2	11.2	11.2	11.2	11.2	11.2	8.4	2.8	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)