

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: P639403

Luminaire Tested: **USSL-M-PA6D-730-U-T2R**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-M-PA6D-730-U-T2R
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K LIGHT ENGINES AND TYPE II ROADWAY OPTICS, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61837 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 544
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

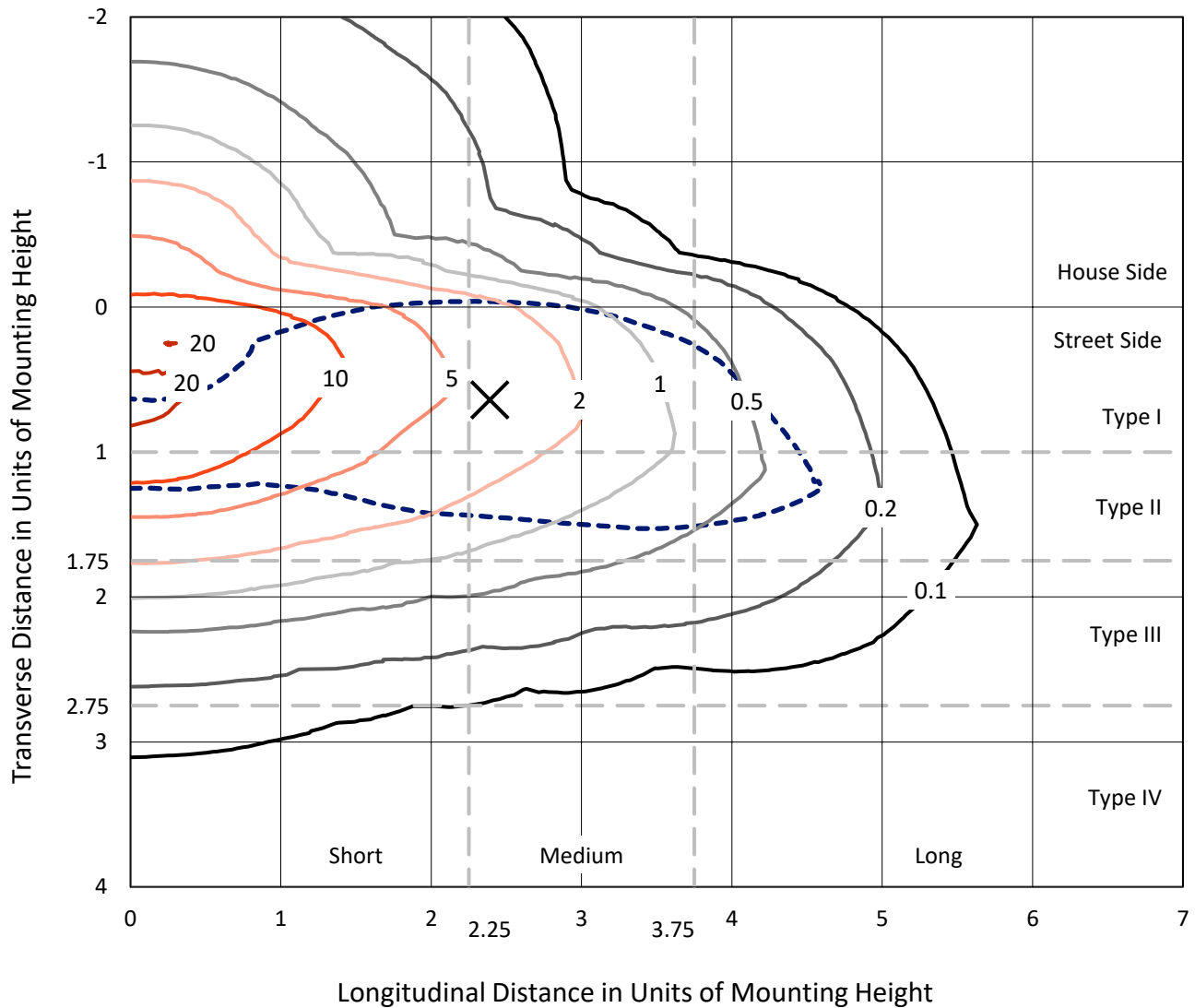


REPORT NUMBER: P639403

CATALOG NUMBER: USSL-M-PA6D-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

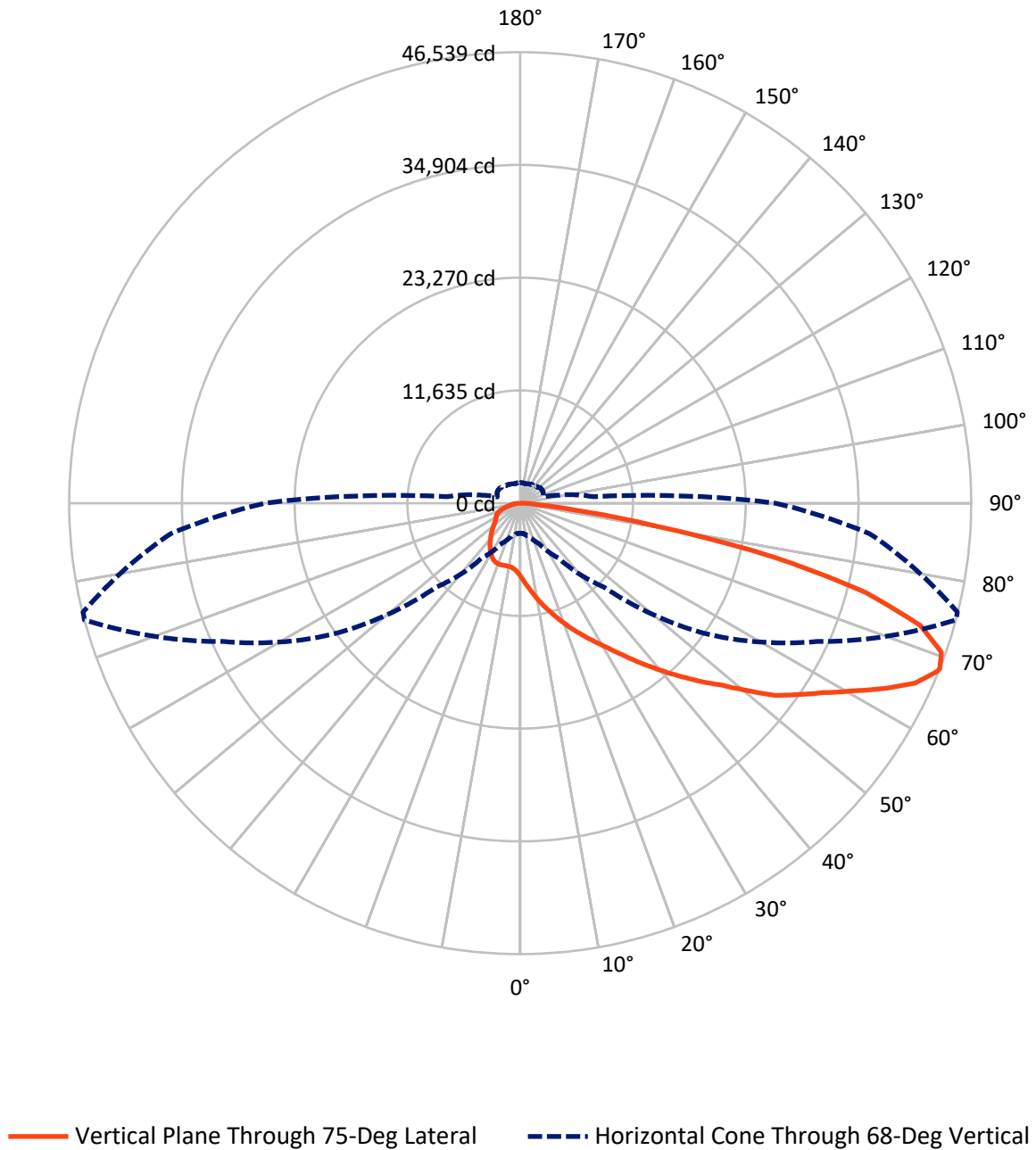
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P639403
CATALOG NUMBER: USSL-M-PA6D-730-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P639403

CATALOG NUMBER: USSL-M-PA6D-730-U-T2R

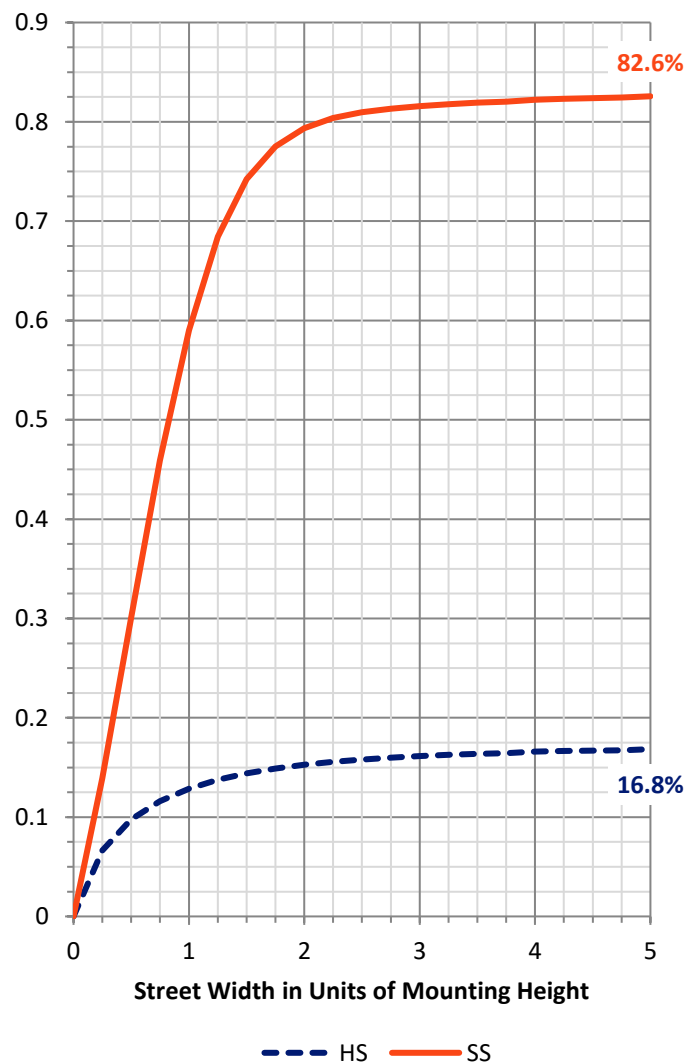
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10585.7	0.0	10585.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	51251.3	0.0	51251.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	61837.0	0.0	61837.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	794.1	1.3
10°-20°	2718.1	4.4
20°-30°	5033.1	8.1
30°-40°	8202.3	13.3
40°-50°	11562.1	18.7
50°-60°	13298.1	21.5
60°-70°	12093.3	19.6
70°-80°	7022.0	11.4
80°-90°	1113.9	1.8
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°	61837.0	100.0
0°-180°	61837.0	100.0

Coefficient of Utilization



REPORT NUMBER: P639403

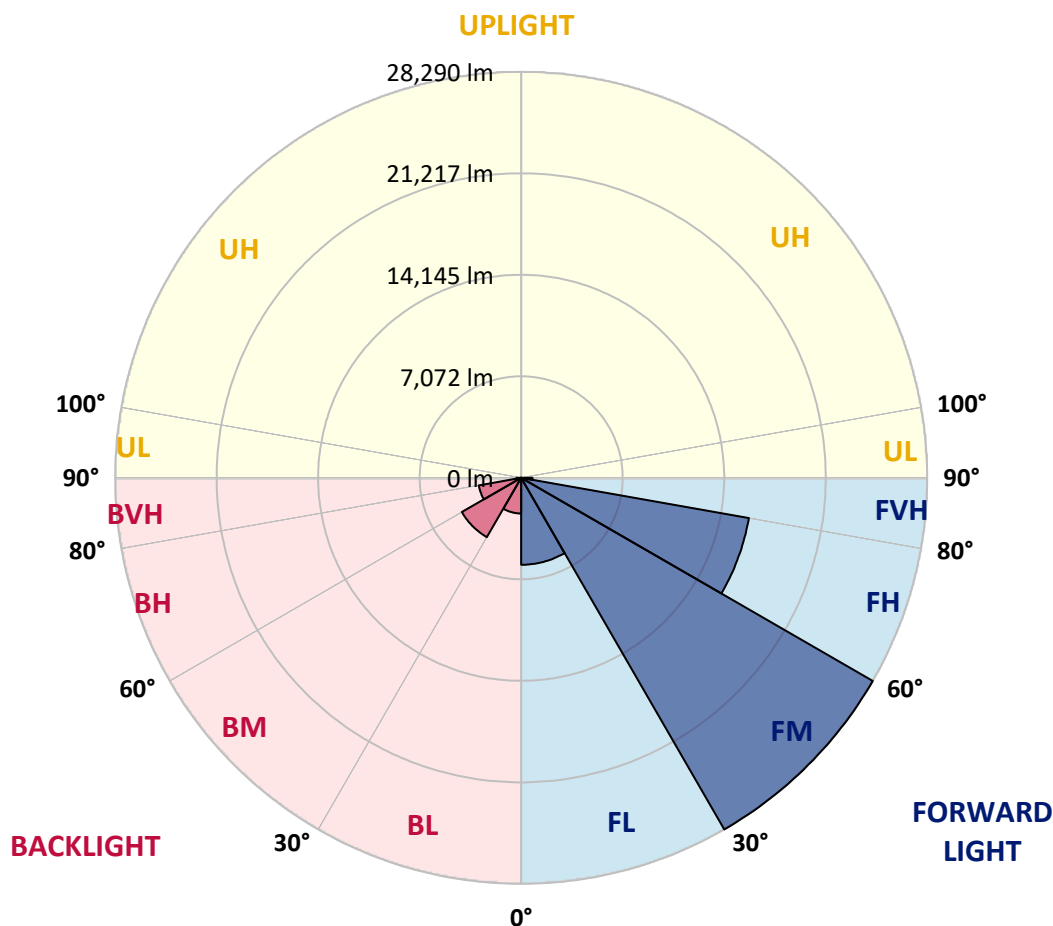
CATALOG NUMBER: USSL-M-PA6D-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6059.3	9.8			
FM	(30°-60°)	28290.0	45.7			
FH	(60°-80°)	16115.0	26.1			G5
FVH	(80°-90°)	787.1	1.3			G5
BL	(0°-30°)	2486.0	4.0	B3/2500		
BM	(30°-60°)	4772.6	7.7	B3/5000		
BH	(60°-80°)	3000.2	4.9	B4/5000		G4/5000
BVH	(80°-90°)	326.8	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



REPORT NUMBER: P639403

CATALOG NUMBER: USSL-M-PA6D-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7555.1	7555.1	7555.1	7555.1	7555.1	7555.1	7555.1	7555.1	7555.1	7555.1	7555.1
2.5°	9611.9	9423.1	9396.4	9372.6	9198.7	8934.2	8763.3	8414.1	8113.9	8064.9	7772.1
5°	10974.6	10866.1	10793.3	10721.9	10512.4	10294.0	9873.4	9329.5	8724.7	8640.0	8045.5
7.5°	11754.8	11661.1	11627.0	11582.4	11435.3	11230.2	10837.9	10209.3	9390.4	9301.3	8397.7
10°	12478.5	12350.7	12325.4	12309.1	12211.0	12020.8	11723.6	11077.1	10126.0	9980.4	8848.0
12.5°	13113.0	13012.0	13026.8	13012.0	12982.2	12870.8	12587.0	11946.5	10883.9	10719.0	9314.6
15°	13539.5	13420.6	13526.1	13648.0	13714.9	13722.3	13460.8	12829.2	11625.5	11476.9	9840.7
17.5°	13758.0	13634.6	13793.6	14028.4	14304.8	14443.0	14334.6	13756.5	12459.2	12271.9	10406.9
20°	14202.3	14053.7	14199.3	14422.2	14810.1	15101.4	15203.9	14716.5	13324.0	13111.5	11002.8
22.5°	15156.4	14994.4	15036.0	15119.2	15420.9	15735.9	15955.9	15686.9	14206.8	13979.4	11618.0
25°	16808.9	16661.7	16468.6	16276.9	16334.8	16480.4	16642.4	16649.9	15123.7	14866.6	12255.6
27.5°	19115.2	18766.0	18422.7	17899.6	17586.1	17440.4	17375.1	17596.5	16086.6	15822.1	12876.7
30°	21432.0	21106.6	20602.8	19934.1	19199.9	18754.1	18302.4	18508.9	17128.4	16831.2	13514.3
32.5°	23436.7	23120.2	22607.5	21854.0	20984.7	20368.0	19471.9	19476.3	18333.6	17962.0	14264.7
35°	25199.2	24768.2	24249.6	23464.9	22614.9	21863.0	20846.5	20513.6	19739.4	19321.8	15172.7
37.5°	26524.7	26071.5	25541.0	24768.2	24013.3	23453.1	22354.8	21654.9	21240.3	20851.0	16172.8
40°	27410.4	26955.7	26477.2	25784.7	25156.1	24826.2	24121.8	22947.8	22806.6	22363.8	17274.0
42.5°	27811.7	27373.3	27068.6	26487.6	26019.5	25979.4	25640.5	24401.2	24491.8	24034.1	18483.7
45°	27646.7	27261.8	27114.7	26805.6	26560.4	26832.4	27171.2	25939.2	26273.6	25839.7	19773.6
47.5°	26857.6	26551.5	26654.0	26661.5	26726.8	27429.8	28382.3	27545.7	28073.2	27646.7	21344.3
50°	25211.1	25047.6	25558.8	26055.1	26492.0	27741.8	29498.4	29309.6	30403.4	29926.3	23313.4
52.5°	21611.8	21840.7	23319.3	24566.1	25804.0	27703.2	30390.0	31253.4	32947.5	32476.4	25261.6
55°	17150.7	17403.3	19274.2	22048.7	24426.4	27251.4	30884.9	32638.4	34888.3	34549.5	26992.9
57.5°	13763.9	13930.4	15255.9	18384.1	21934.3	26182.9	31147.9	33689.1	36894.5	36525.9	28978.2
60°	10952.3	11132.1	12118.8	14495.1	18497.0	24190.1	31089.9	34591.1	39351.0	39028.5	31186.5
62.5°	8264.0	8204.6	9060.5	11053.3	14767.0	21122.9	30222.1	35209.3	42115.0	41874.3	33350.2
65°	5257.7	5464.3	6171.6	7720.1	11103.9	17251.7	28108.9	35163.2	44764.7	44647.3	35142.4
67.5°	3403.1	3397.1	3868.2	5080.9	7568.5	13081.8	24463.6	34167.6	46383.0	46339.9	36199.0
68°	3119.2	3117.8	3524.9	4611.3	6928.0	12251.1	23551.1	33797.5	46539.0	46490.0	36202.0
70°	2452.0	2449.0	2628.8	3108.8	4750.9	9051.6	19165.8	31616.0	46111.1	46100.7	35398.0
72.5°	2120.6	2114.7	2168.2	2281.1	2923.1	5768.9	13385.0	27303.4	43144.9	42991.8	32665.2
75°	1905.1	1897.7	1930.4	1924.5	2120.6	3529.4	8274.4	22042.8	36780.1	36306.0	25616.8
77.5°	1683.7	1674.8	1706.0	1703.0	1795.2	2370.3	4545.9	15786.5	26769.9	25215.5	15878.6
80°	1434.1	1426.6	1463.8	1472.7	1575.2	1783.3	2349.5	9767.9	13934.8	12713.3	6660.5
82.5°	1136.8	1148.7	1214.1	1237.9	1343.4	1294.4	1459.3	4544.4	5016.9	4407.7	2041.9
85°	717.8	753.4	918.4	955.5	1038.8	827.7	1007.6	1842.7	1618.3	1460.8	539.4
87.5°	267.5	297.2	526.1	530.5	529.0	334.4	514.2	650.9	520.1	471.1	167.9
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: P639403

CATALOG NUMBER: USSL-M-PA6D-730-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7555.1	7555.1	7555.1	7555.1	7555.1	7555.1	7555.1	7555.1	7555.1	7555.1	7555.1
2.5°	7633.9	7445.2	7164.3	6905.7	6693.2	6525.3	6357.4	6290.5	6223.6	6213.2	6143.4
5°	7733.5	7397.6	6871.6	6471.8	6195.4	6003.7	5881.8	5828.3	5792.7	5779.3	5718.4
7.5°	7914.8	7424.4	6700.7	6235.5	5987.3	5872.9	5832.8	5828.3	5826.9	5829.8	5761.5
10°	8179.3	7535.8	6635.3	6159.7	5979.9	5926.4	5926.4	5941.3	5941.3	5951.7	5884.8
12.5°	8479.5	7674.0	6617.4	6171.6	6042.3	6002.2	5996.3	6006.7	5991.8	5994.8	5927.9
15°	8812.4	7839.0	6633.8	6208.8	6081.0	6020.0	5975.5	5954.7	5914.5	5896.7	5835.8
17.5°	9186.8	8032.2	6660.5	6219.2	6051.2	5944.3	5841.7	5770.4	5709.5	5702.0	5629.2
20°	9592.5	8240.2	6670.9	6167.2	5938.3	5768.9	5615.8	5510.3	5421.2	5382.5	5330.5
22.5°	10033.9	8449.8	6620.4	6015.6	5730.3	5508.8	5318.6	5180.4	5054.1	5009.5	4942.6
25°	10484.2	8641.5	6506.0	5809.0	5450.9	5195.3	4953.0	4773.2	4629.1	4569.6	4508.7
27.5°	10921.1	8791.6	6321.7	5537.1	5144.8	4847.5	4562.2	4343.8	4193.7	4144.6	4092.6
30°	11356.5	8914.9	6058.7	5242.8	4832.7	4492.4	4184.8	3973.7	3844.4	3765.7	3715.2
32.5°	11882.6	9039.7	5795.6	4939.7	4511.7	4143.1	3877.1	3713.7	3553.2	3459.6	3413.5
35°	12496.3	9179.4	5489.5	4630.6	4180.3	3845.9	3684.0	3471.4	3279.7	3208.4	3171.3
37.5°	13214.1	9314.6	5171.5	4320.0	3860.8	3657.2	3526.4	3266.4	3120.7	3079.1	3052.4
40°	14016.5	9438.0	4798.5	4013.9	3571.0	3519.0	3354.0	3146.0	3034.5	2979.6	2949.8
42.5°	14896.3	9539.0	4493.9	3692.9	3343.6	3352.6	3205.4	3085.1	2929.0	2863.6	2838.4
45°	15893.4	9692.1	4207.0	3376.3	3151.9	3151.9	3097.0	2970.6	2833.9	2793.8	2777.5
47.5°	17192.3	9904.6	3905.4	3110.3	3019.7	2970.6	2979.6	2823.5	2761.1	2722.5	2709.1
50°	18687.2	10075.5	3599.2	2926.1	2929.0	2860.7	2805.7	2732.9	2689.8	2648.2	2621.4
52.5°	20061.9	10078.5	3351.1	2823.5	2845.8	2783.4	2669.0	2648.2	2618.4	2551.6	2530.8
55°	21347.3	10026.5	3140.1	2770.0	2770.0	2701.7	2593.2	2575.3	2536.7	2471.3	2457.9
57.5°	22814.0	9968.5	2985.5	2752.2	2725.4	2597.6	2536.7	2514.4	2452.0	2413.4	2400.0
60°	24398.2	9882.3	2871.1	2755.2	2700.2	2514.4	2487.7	2453.5	2389.6	2361.4	2349.5
62.5°	25983.8	9632.7	2777.5	2765.6	2685.3	2471.3	2438.6	2394.0	2325.7	2303.4	2291.5
65°	26839.8	8975.8	2661.5	2753.7	2667.5	2446.1	2383.6	2322.7	2230.6	2221.7	2203.8
67.5°	26575.3	7886.5	2480.2	2666.0	2642.2	2411.9	2312.3	2214.2	2101.3	2138.4	2120.6
68°	26336.0	7620.5	2434.2	2636.3	2633.3	2404.5	2296.0	2187.5	2074.5	2123.6	2093.9
70°	24732.6	6488.2	2208.3	2466.9	2562.0	2373.2	2212.7	2079.0	1951.2	2043.3	1997.3
72.5°	21231.4	5000.6	1854.6	2162.2	2380.7	2319.7	2102.8	1909.6	1766.9	1772.9	1716.4
75°	15782.0	3458.1	1490.5	1746.1	2096.8	2245.4	1973.5	1725.3	1547.0	1487.5	1463.8
77.5°	8631.1	2255.8	1163.6	1325.6	1694.1	2050.8	1816.0	1523.2	1319.6	1263.2	1231.9
80°	3582.9	1338.9	902.0	977.8	1175.5	1750.6	1700.1	1315.2	1087.8	1040.2	997.1
82.5°	1185.9	820.3	668.7	662.8	768.3	1364.2	1499.4	1035.8	835.2	869.3	719.3
85°	414.6	431.0	422.0	398.3	429.5	799.5	1110.1	689.5	543.9	444.3	417.6
87.5°	115.9	156.0	157.5	124.8	127.8	184.3	500.8	315.0	191.7	127.8	112.9
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)