

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: P639402

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

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-7)
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-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K LIGHT ENGINES AND TYPE II ROADWAY OPTICS WITH HOUSE
SIDE SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48853 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - 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

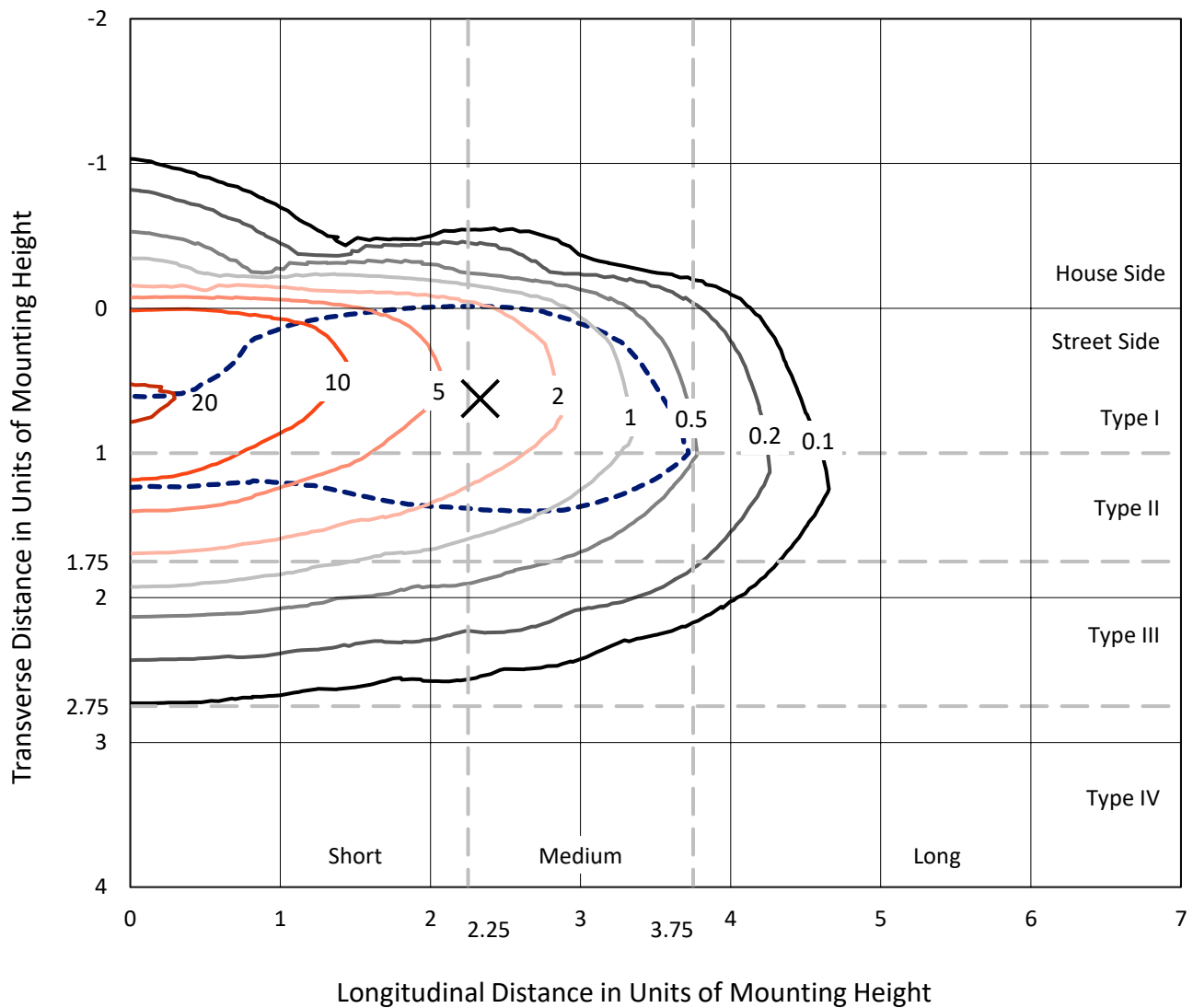


REPORT NUMBER: P639402

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

Iso-Footcandle Lines of Horizontal Illumination

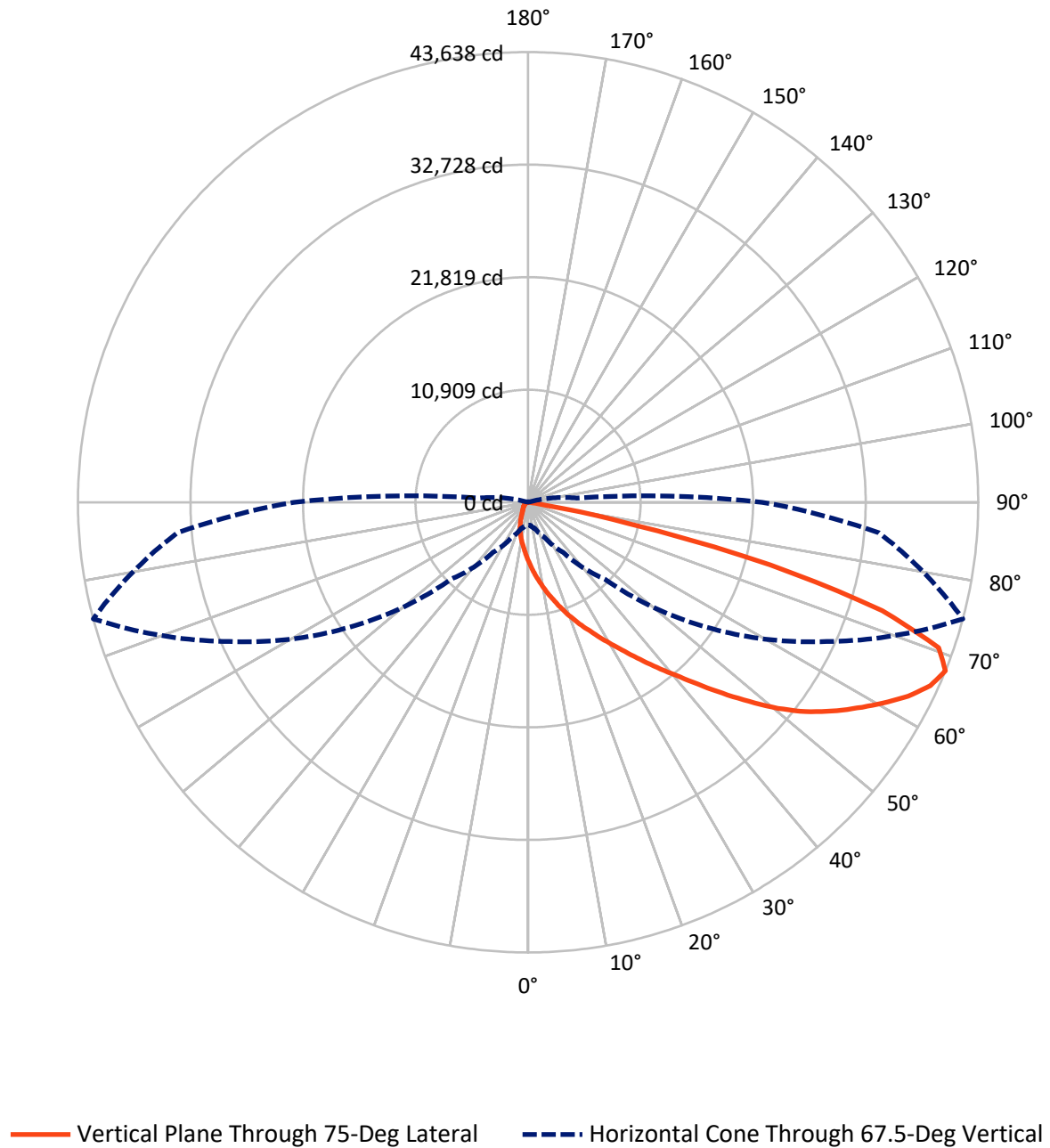
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P639402
CATALOG NUMBER: USSL-M-PA6D-730-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P639402

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

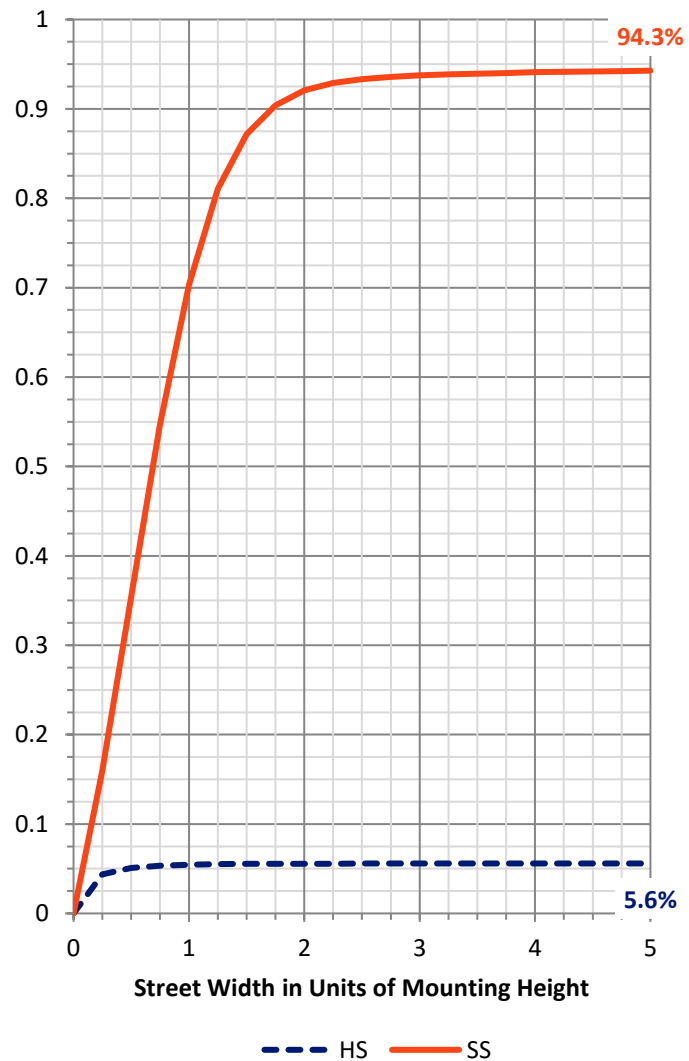
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2747.2	0.0	2747.2
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	46105.8	0.0	46105.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	48853.0	0.0	48853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.8	1.1
10°-20°	1885.1	3.9
20°-30°	3749.2	7.7
30°-40°	6797.2	13.9
40°-50°	10176.5	20.8
50°-60°	11597.9	23.7
60°-70°	9852.1	20.2
70°-80°	4064.8	8.3
80°-90°	171.5	0.4
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°	48853.0	100.0
0°-180°	48853.0	100.0

Coefficient of Utilization



REPORT NUMBER: P639402

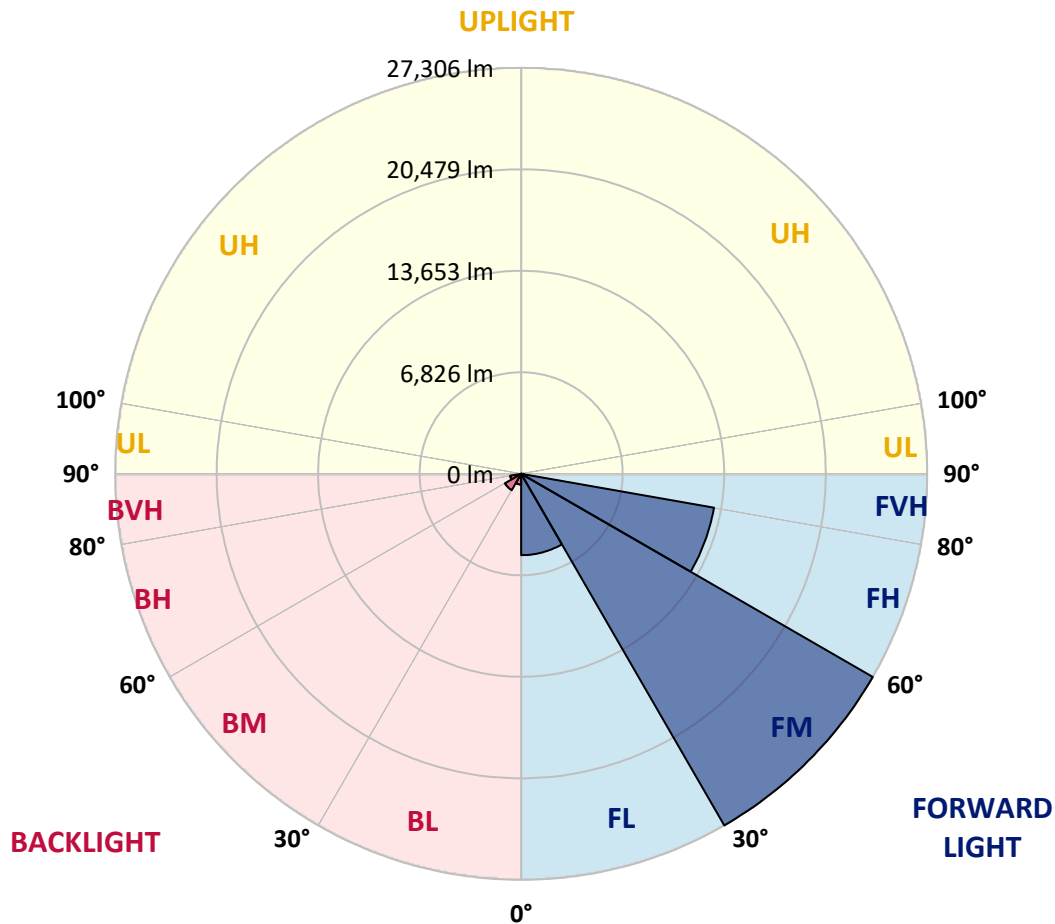
CATALOG NUMBER: USSL-M-PA6D-730-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5472.5	11.2			
FM	(30°-60°)	27305.8	55.9			
FH	(60°-80°)	13164.4	26.9			G5
FVH	(80°-90°)	163.1	0.3			G2/225
BL	(0°-30°)	720.5	1.5	B2/1000		
BM	(30°-60°)	1265.8	2.6	B2/2500		
BH	(60°-80°)	752.4	1.5	B2/1000		G2/1000
BVH	(80°-90°)	8.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Medium



REPORT NUMBER: P639402

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5687.1	5687.1	5687.1	5687.1	5687.1	5687.1	5687.1	5687.1	5687.1	5687.1	5687.1
2.5°	7896.9	7801.7	7873.1	7789.9	7590.7	7342.6	7064.7	6714.0	6329.1	5944.2	5749.5
5°	9533.0	9338.3	9351.7	9246.2	9023.3	8690.4	8281.7	7687.3	7000.8	6231.0	5832.7
7.5°	10396.4	10229.9	10244.8	10169.0	10011.5	9733.6	9329.4	8625.0	7711.1	6587.6	5981.3
10°	11072.5	10968.5	11001.2	10956.6	10842.2	10619.3	10262.6	9552.3	8463.0	7015.6	6187.9
12.5°	11765.0	11653.6	11716.0	11698.2	11628.3	11472.3	11112.7	10466.2	9243.2	7486.7	6421.2
15°	12176.7	12038.5	12167.8	12298.5	12383.2	12328.2	12056.3	11381.6	10084.3	7986.0	6669.4
17.5°	12368.4	12253.9	12433.8	12658.2	12947.9	13104.0	12925.6	12343.1	10970.0	8537.3	6963.6
20°	12809.7	12705.7	12869.2	13105.5	13419.0	13741.5	13789.0	13334.3	11879.5	9131.8	7281.6
22.5°	13836.6	13717.7	13789.0	13830.6	14043.1	14349.3	14557.3	14340.4	12817.2	9760.4	7617.5
25°	15613.9	15443.0	15356.8	15062.6	15041.8	15130.9	15263.2	15353.8	13763.8	10411.2	7948.9
27.5°	18039.1	17814.7	17513.1	16780.4	16411.9	16200.9	16052.3	16368.8	14832.2	11039.8	8296.6
30°	20563.9	20281.6	19908.6	19022.9	18158.0	17599.3	17049.4	17409.0	15963.1	11788.8	8669.6
32.5°	22739.5	22412.6	21922.2	21021.6	20115.1	19251.7	18320.0	18459.7	17233.7	12621.0	9099.1
35°	24466.3	24071.0	23669.8	22776.6	21963.8	21046.9	19844.7	19569.8	18716.8	13566.1	9634.0
37.5°	25692.3	25271.7	24825.9	24050.2	23473.6	22856.9	21653.2	20879.0	20306.8	14671.7	10279.0
40°	26424.9	25980.6	25615.0	25056.2	24640.1	24464.8	23656.4	22415.5	22020.2	15961.6	11085.9
42.5°	26708.7	26277.8	26019.2	25613.5	25444.1	25704.2	25610.5	24342.9	24079.9	17508.6	12053.3
45°	26517.0	26121.7	25967.2	25779.9	25866.1	26578.0	27459.2	26456.1	26395.2	19245.8	13173.8
47.5°	25566.0	25253.9	25359.4	25508.0	25864.7	27072.8	28960.1	28719.3	28832.3	21234.1	14459.2
50°	23482.5	23307.2	23788.6	24549.5	25387.6	27193.2	30120.7	30868.2	31394.2	23335.4	15871.0
52.5°	19333.5	19447.9	21008.3	22641.4	24265.7	26873.7	30759.7	32740.6	33730.3	25245.0	17175.7
55°	14839.7	14781.7	16767.1	19776.3	22330.8	25934.5	30920.2	33871.5	35742.4	27068.4	18385.4
57.5°	11479.7	11432.2	12609.1	15945.3	19367.7	24209.2	30691.3	34569.9	37629.7	28810.0	19609.9
60°	8828.6	8800.4	9689.0	11898.8	15671.9	21712.6	29842.8	34905.8	39537.8	30704.7	20856.7
62.5°	6335.0	6372.2	7133.0	8842.0	12164.8	18210.0	28116.0	34696.2	41373.0	32385.4	22008.4
65°	3932.1	3973.7	4623.1	6159.7	8760.2	14200.7	25206.3	33791.2	42853.1	33629.2	22825.7
67.5°	2214.2	2235.0	2651.1	3734.4	5927.8	10518.2	21104.8	31927.7	43637.8	34152.3	22708.3
70°	1492.0	1499.4	1622.8	2058.2	3412.0	7072.1	15970.5	28486.0	42229.0	32413.7	20523.8
72.5°	1190.3	1194.8	1281.0	1385.0	1955.6	4382.4	10717.4	23063.5	35898.4	25692.3	15077.4
75°	879.7	899.1	1061.0	1120.5	1325.6	2394.0	5764.4	15114.6	24233.0	14429.5	8198.5
77.5°	740.1	744.5	796.5	924.3	1012.0	1358.2	1937.8	6679.8	10021.9	4263.5	2113.2
80°	500.8	500.8	592.9	679.1	771.3	894.6	765.3	1818.9	1856.1	688.0	392.3
82.5°	350.7	362.6	425.0	573.6	627.1	480.0	392.3	503.8	428.0	227.4	123.3
85°	96.6	118.9	291.3	426.5	334.4	145.6	236.3	199.1	147.1	84.7	52.0
87.5°	14.9	17.8	139.7	127.8	90.6	26.7	81.7	34.2	46.1	32.7	25.3
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: P639402

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5687.1	5687.1	5687.1	5687.1	5687.1	5687.1	5687.1	5687.1	5687.1	5687.1
2.5°	5540.0	5153.6	4740.5	4379.4	4071.8	3790.9	3654.2	3465.5	3462.5	3330.2
5°	5415.2	4602.3	3880.1	3269.3	2781.9	2432.7	2217.2	2035.9	1951.2	1917.0
7.5°	5340.9	4149.0	3160.8	2416.3	1905.1	1610.9	1443.0	1374.6	1337.4	1319.6
10°	5323.0	3753.8	2545.6	1789.2	1417.7	1278.0	1221.5	1187.4	1174.0	1160.6
12.5°	5312.6	3364.4	2056.7	1416.2	1234.9	1154.7	1104.1	1067.0	1050.6	1038.7
15°	5306.7	2973.6	1654.0	1245.3	1127.9	1049.1	988.2	952.6	930.3	918.4
17.5°	5315.6	2622.9	1377.6	1150.2	1037.3	940.7	878.3	832.2	814.4	798.0
20°	5331.9	2266.2	1231.9	1064.0	939.2	833.7	768.3	719.2	694.0	685.1
22.5°	5339.4	1915.5	1132.4	970.4	836.6	728.2	659.8	618.2	595.9	587.0
25°	5318.6	1609.4	1037.3	870.8	735.6	631.6	564.7	530.5	518.6	509.7
27.5°	5269.5	1349.3	942.2	769.8	643.5	549.8	494.9	463.6	454.7	453.2
30°	5187.8	1147.2	847.0	677.6	561.7	480.0	432.4	407.2	402.7	399.7
32.5°	5112.0	1010.5	759.4	598.9	493.4	419.1	377.5	361.1	358.1	358.1
35°	5033.2	908.0	673.2	527.5	432.4	368.5	334.4	319.5	322.5	321.0
37.5°	4973.8	818.8	606.3	469.6	378.9	321.0	291.3	280.9	286.8	286.8
40°	4938.1	747.5	537.9	416.1	331.4	279.4	254.1	246.7	257.1	258.6
42.5°	4936.6	679.1	483.0	367.1	288.3	243.7	221.4	214.0	225.9	228.9
45°	4964.9	625.6	429.5	321.0	252.6	211.0	187.2	179.8	193.2	194.7
47.5°	5080.8	581.0	381.9	282.3	221.4	182.8	154.5	147.1	162.0	163.5
50°	5272.5	521.6	329.9	246.7	193.2	154.5	124.8	118.9	135.2	136.7
52.5°	5453.8	465.1	282.3	212.5	167.9	127.8	99.6	96.6	112.9	115.9
55°	5534.0	408.7	242.2	182.8	145.6	105.5	78.8	80.2	96.6	99.6
57.5°	5577.1	361.1	209.5	157.5	126.3	86.2	66.9	68.4	83.2	86.2
60°	5611.3	313.6	184.3	138.2	110.0	72.8	58.0	56.5	68.4	71.3
62.5°	5593.5	269.0	162.0	120.4	93.6	63.9	49.0	44.6	52.0	53.5
65°	5367.6	233.3	139.7	102.5	80.2	53.5	38.6	26.7	31.2	32.7
67.5°	4734.5	205.1	118.9	87.7	65.4	46.1	28.2	17.8	20.8	22.3
70°	3533.8	175.4	96.6	72.8	53.5	37.2	20.8	11.9	14.9	16.3
72.5°	1909.6	144.1	77.3	56.5	40.1	28.2	13.4	7.4	8.9	8.9
75°	789.1	104.0	58.0	38.6	28.2	20.8	10.4	3.0	3.0	3.0
77.5°	292.8	63.9	37.2	29.7	22.3	16.3	7.4	1.5	0.0	0.0
80°	133.7	34.2	28.2	23.8	17.8	13.4	5.9	0.0	0.0	0.0
82.5°	62.4	23.8	22.3	19.3	14.9	10.4	4.5	0.0	0.0	0.0
85°	29.7	19.3	20.8	17.8	14.9	8.9	3.0	0.0	0.0	0.0
87.5°	17.8	20.8	20.8	17.8	14.9	8.9	1.5	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

(END OF REPORT)