

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: McGRAW-EDISON

Report Number: P943817

Luminaire Tested: **GALN-SB8C-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8C-722-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50060 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 399.8
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

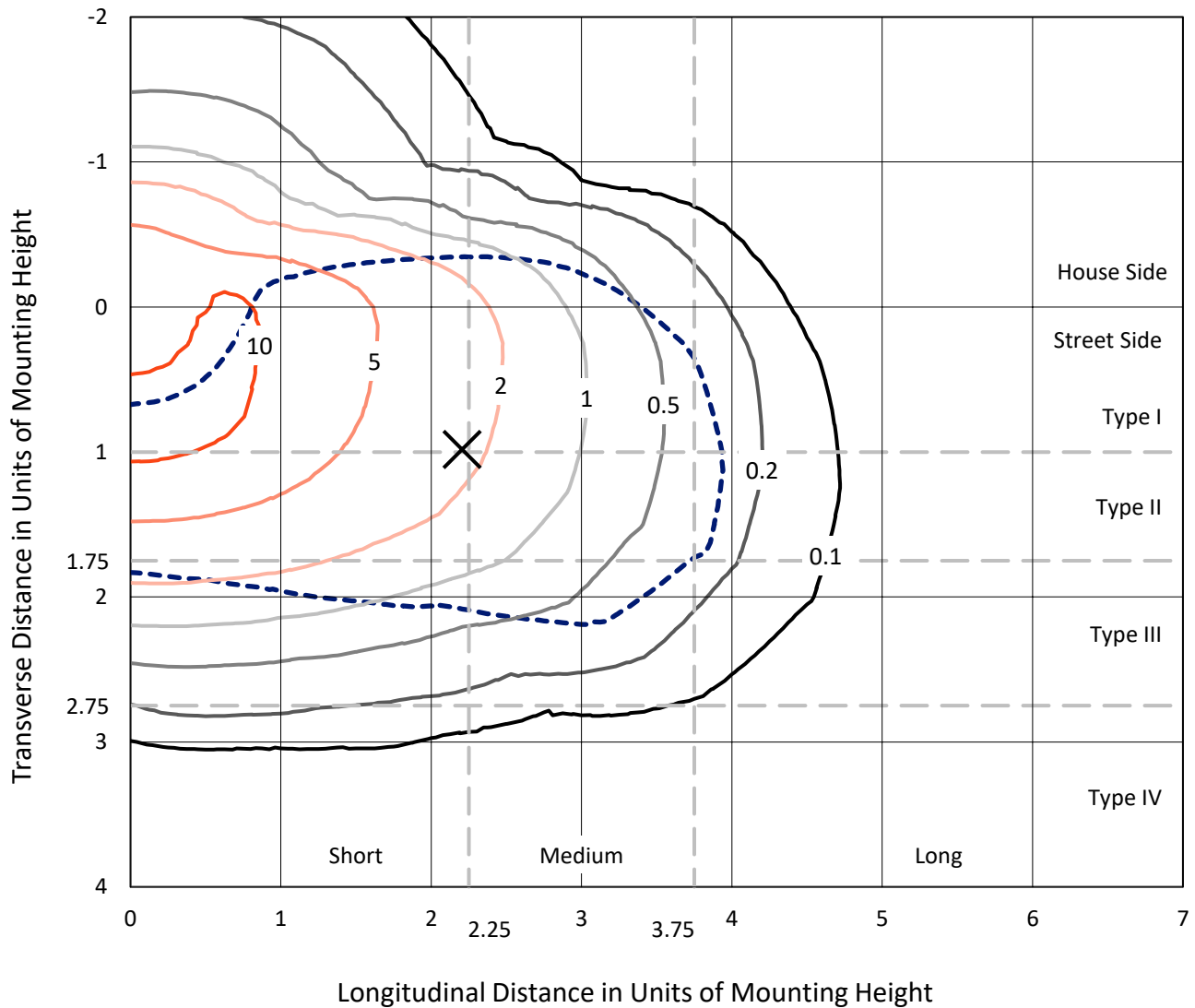


REPORT NUMBER: P943817

CATALOG NUMBER: GALN-SB8C-722-U-T3

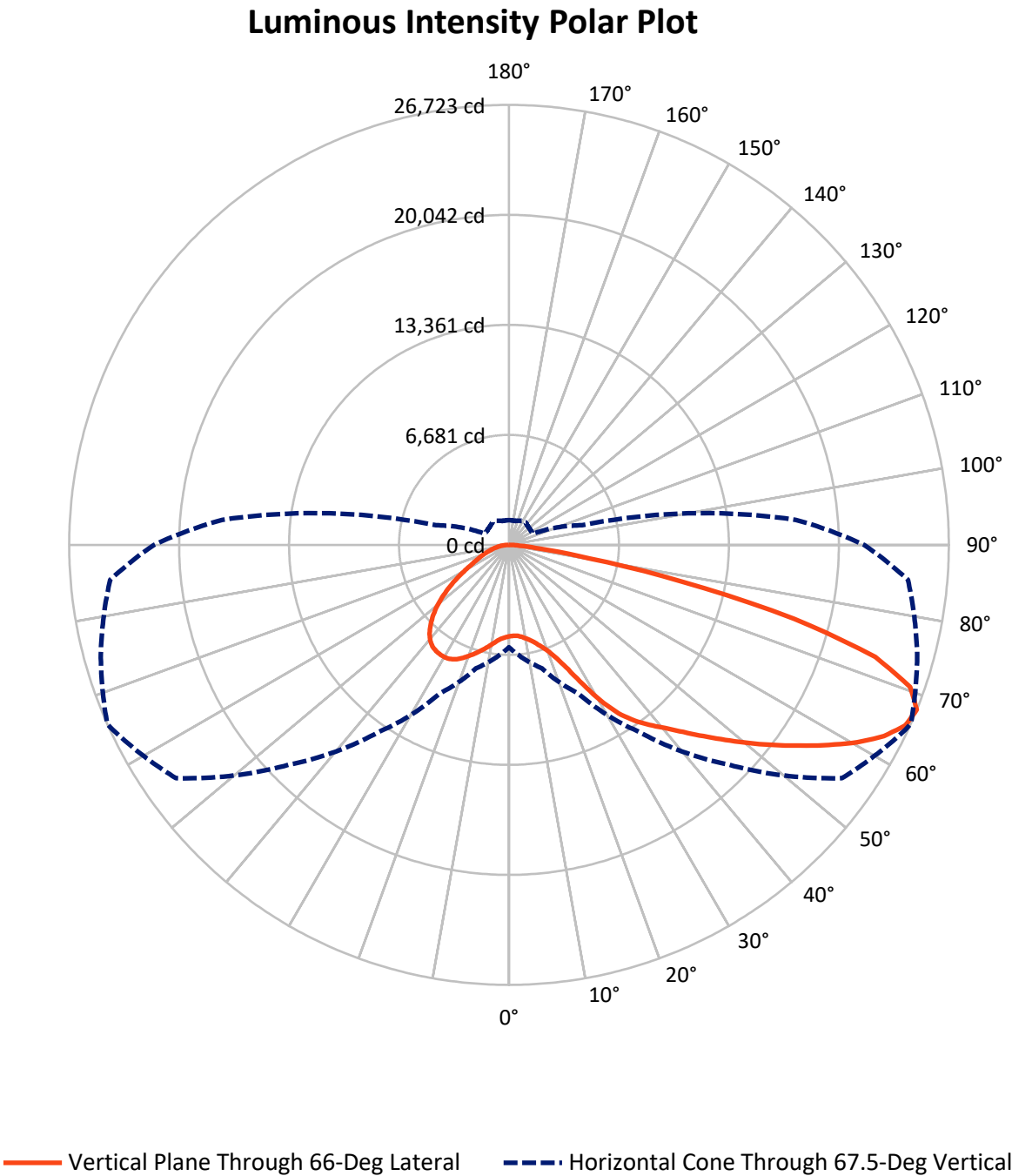
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
Type III - Short - N/A

REPORT NUMBER: P943817
CATALOG NUMBER: GALN-SB8C-722-U-T3



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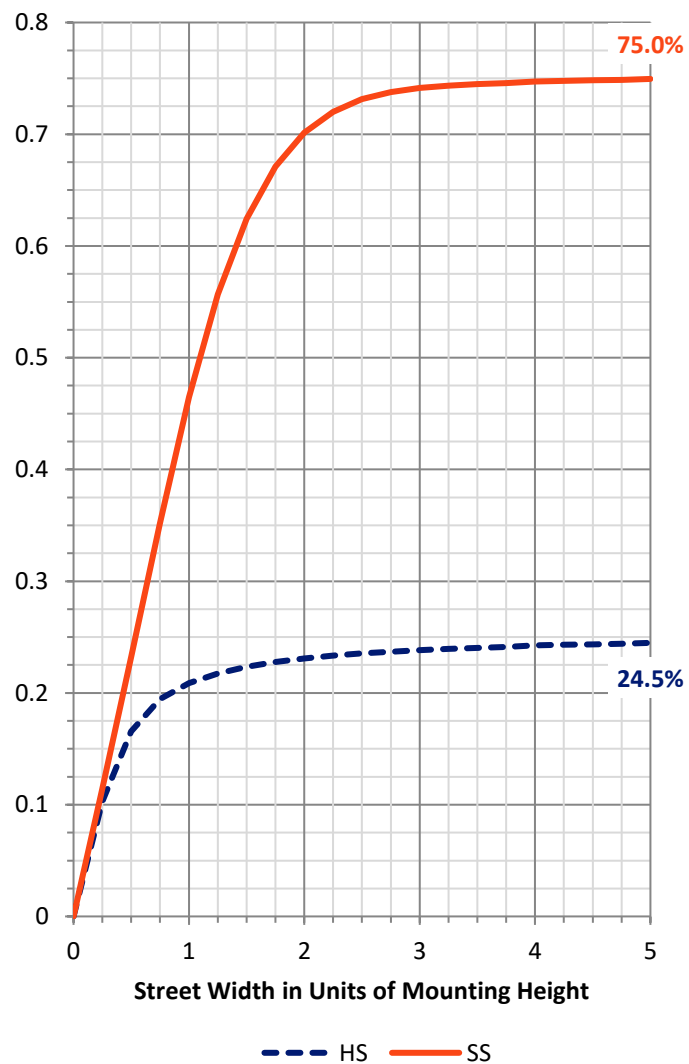
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12447.3	0.0	12447.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	37612.7	0.0	37612.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	50060.0	0.0	50060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.5	1.1
10°-20°	1818.7	3.6
20°-30°	3505.5	7.0
30°-40°	6146.5	12.3
40°-50°	9137.8	18.3
50°-60°	11583.1	23.1
60°-70°	11333.7	22.6
70°-80°	5406.3	10.8
80°-90°	577.8	1.2
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°	50060.0	100.0
0°-180°	50060.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943817

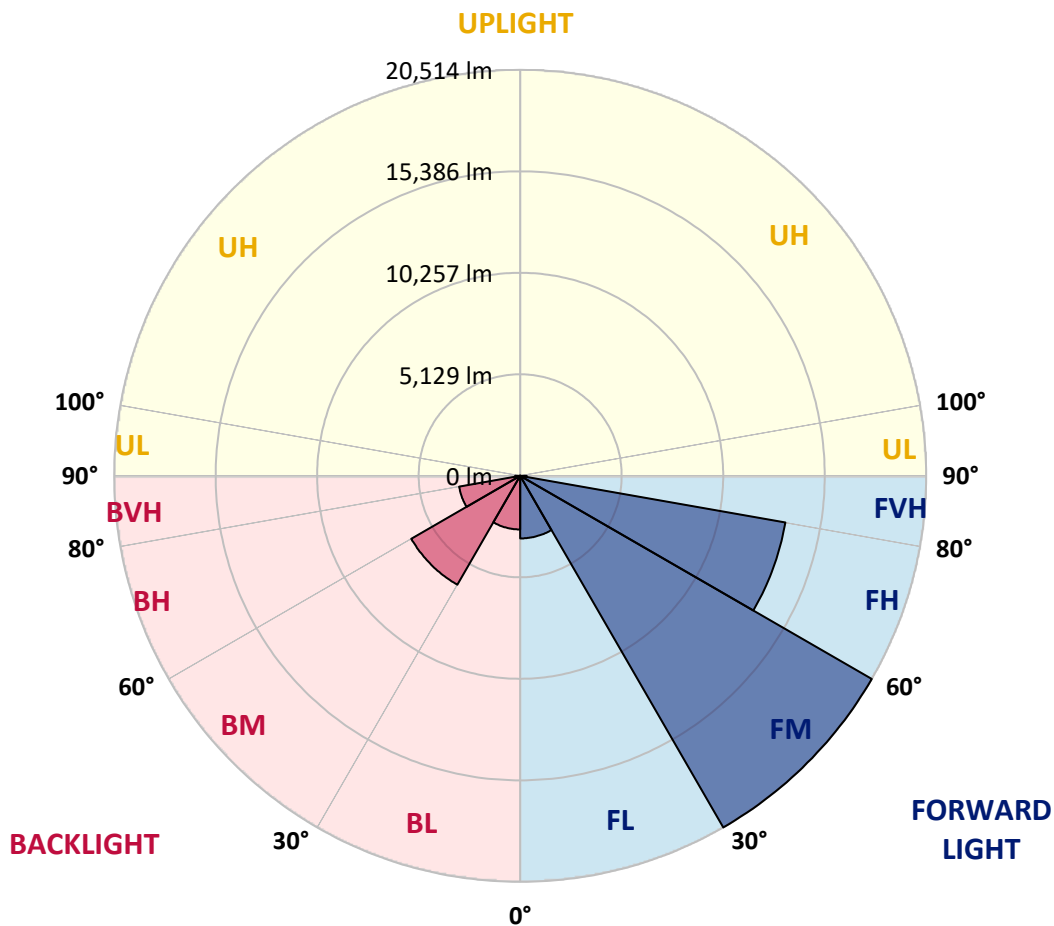
CATALOG NUMBER: GALN-SB8C-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3163.3	6.3			
FM	(30°-60°)	20514.2	41.0			
FH	(60°-80°)	13607.7	27.2			G5
FVH	(80°-90°)	327.6	0.7			G3/500
BL	(0°-30°)	2711.5	5.4	B4/5000		
BM	(30°-60°)	6353.2	12.7	B4/8500		
BH	(60°-80°)	3132.4	6.3	B4/5000		G4/5000
BVH	(80°-90°)	250.2	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 III Short



REPORT NUMBER: P943817

CATALOG NUMBER: GALN-SB8C-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3
2.5°	5494.5	5526.0	5518.1	5505.0	5502.3	5507.6	5515.5	5523.4	5520.8	5533.9	5554.9
5°	5478.7	5510.2	5507.6	5507.6	5518.1	5539.2	5552.3	5565.5	5552.3	5568.1	5597.0
7.5°	5489.2	5512.9	5523.4	5533.9	5560.2	5599.7	5631.2	5660.2	5644.4	5662.8	5699.6
10°	5623.3	5641.7	5652.3	5652.3	5670.7	5715.4	5746.9	5799.6	5786.4	5815.3	5862.7
12.5°	5867.9	5886.3	5886.3	5875.8	5889.0	5917.9	5928.4	5986.3	5962.6	6010.0	6057.3
15°	6167.8	6204.6	6175.7	6157.3	6162.5	6191.4	6188.8	6233.5	6209.9	6249.3	6291.4
17.5°	6499.2	6546.5	6499.2	6496.6	6486.0	6517.6	6520.2	6559.7	6517.6	6546.5	6575.5
20°	6891.1	6956.8	6917.4	6930.5	6906.9	6920.0	6933.2	6991.0	6925.3	6946.3	6938.4
22.5°	7443.4	7522.3	7480.2	7530.2	7514.4	7503.9	7501.3	7603.9	7501.3	7509.2	7432.9
25°	8248.3	8342.9	8269.3	8337.7	8337.7	8371.9	8411.3	8542.8	8371.9	8321.9	8124.6
27.5°	9437.1	9531.8	9387.1	9429.2	9416.1	9500.2	9458.1	9784.3	9600.2	9518.6	9121.5
30°	10867.9	11036.2	10762.7	10752.2	10739.0	10873.2	10933.7	11149.3	10962.6	10881.1	10402.4
32.5°	12414.5	12590.7	12264.5	12169.9	12119.9	12201.4	12151.4	12325.0	12196.2	12069.9	11478.1
35°	14050.4	14224.0	13913.7	13729.6	13529.7	13358.7	13179.8	13224.6	13103.6	12911.6	12298.7
37.5°	15597.0	15915.2	15586.5	15389.2	15021.0	14686.9	14187.2	13979.4	13866.3	13690.1	13072.0
40°	17172.5	17353.9	17104.1	16935.7	16536.0	16012.6	15213.0	14773.7	14621.2	14450.2	13926.8
42.5°	18332.4	18506.0	18371.8	18256.1	17943.1	17335.5	16301.9	15752.2	15531.2	15339.2	14894.7
45°	19252.9	19381.8	19297.7	19339.7	19205.6	18616.4	17430.2	16801.6	16572.8	16338.7	15988.9
47.5°	19623.8	19760.6	19894.7	20144.6	20373.4	19939.4	18642.7	17937.8	17695.9	17456.5	17112.0
50°	19581.7	19721.1	20110.4	20641.7	21351.8	21207.2	19921.0	19147.7	18924.2	18650.6	18332.4
52.5°	19245.0	19402.9	19902.6	20786.3	21917.3	22156.7	21222.9	20397.1	20186.7	19860.5	19542.3
55°	18361.3	18456.0	19205.6	20457.6	22051.5	22819.5	22498.6	21727.9	21517.5	21062.5	20715.3
57.5°	16722.7	16859.5	17951.0	19571.2	21714.8	23269.2	23619.0	23127.2	22924.7	22269.8	21906.8
60°	14584.4	14802.7	16052.0	18082.5	20857.3	23266.6	24636.9	24502.8	24334.4	23458.6	23079.9
62.5°	12164.6	12417.1	13619.1	15978.4	19358.1	22606.4	25273.4	25654.8	25568.0	24555.4	24071.4
65°	9342.4	9516.0	10712.7	13256.1	17025.2	21188.8	25347.1	26441.2	26457.0	25389.2	24589.6
67.5°	6220.4	6720.1	7759.0	9947.4	13900.5	18871.6	24700.0	26570.1	26722.7	25675.8	24329.2
70°	3035.2	3692.8	4710.7	6465.0	9947.4	15318.2	23008.8	25512.8	25852.1	24839.4	22777.4
72.5°	1259.9	1472.9	2027.9	3190.4	5710.1	10336.6	19610.6	22645.9	23274.5	22009.4	19150.4
75°	849.5	920.6	1159.9	1636.0	2601.3	5097.3	14142.5	16885.8	17898.4	16622.8	13587.5
77.5°	654.9	699.6	844.3	1144.1	1546.5	1927.9	7569.7	10176.2	10699.6	9905.3	7069.9
80°	515.5	549.7	631.2	833.8	1096.8	1031.0	2580.2	4610.7	4913.2	4121.5	2272.5
82.5°	447.1	460.3	452.4	565.5	728.6	602.3	846.9	1701.7	1878.0	1362.4	741.7
85°	323.5	360.3	376.1	349.8	386.6	305.1	347.2	602.3	662.8	591.8	418.2
87.5°	131.5	194.6	239.3	226.2	142.0	86.8	107.8	176.2	202.5	220.9	136.8
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: P943817

CATALOG NUMBER: GALN-SB8C-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3
2.5°	5557.6	5576.0	5589.1	5604.9	5615.4	5631.2	5662.8	5681.2	5683.8	5697.0	5694.3
5°	5607.5	5633.9	5662.8	5704.9	5752.2	5791.7	5852.2	5894.2	5910.0	5923.2	5920.5
7.5°	5715.4	5752.2	5804.8	5878.5	5946.8	5999.4	6073.1	6123.1	6173.0	6191.4	6194.1
10°	5875.8	5928.4	6004.7	6104.7	6178.3	6246.7	6323.0	6365.0	6415.0	6436.1	6446.6
12.5°	6075.7	6131.0	6230.9	6370.3	6438.7	6486.0	6512.3	6501.8	6512.3	6530.7	6536.0
15°	6304.5	6365.0	6478.1	6628.1	6675.4	6633.3	6575.5	6522.9	6515.0	6520.2	6538.6
17.5°	6575.5	6620.2	6751.7	6877.9	6843.7	6670.1	6543.9	6459.7	6417.6	6404.5	6422.9
20°	6954.2	6954.2	7062.0	7140.9	6912.1	6617.5	6420.3	6283.5	6196.7	6159.9	6152.0
22.5°	7414.5	7372.4	7440.8	7385.6	6899.0	6470.2	6196.7	5960.0	5828.5	5775.9	5768.0
25°	7998.4	7948.4	7930.0	7588.1	6804.3	6236.2	5791.7	5505.0	5389.2	5360.3	5365.6
27.5°	8879.5	8753.2	8513.9	7698.5	6630.7	5867.9	5318.2	5052.6	4986.8	4989.5	4997.3
30°	10052.6	9800.1	9213.5	7717.0	6346.6	5347.2	4834.3	4644.9	4613.3	4626.5	4671.2
32.5°	11138.8	10899.5	9928.9	7632.8	5910.0	4836.9	4400.3	4274.0	4226.7	4242.5	4263.5
35°	11991.0	11925.2	10591.7	7514.4	5373.5	4358.2	4011.0	3903.2	3811.1	3790.1	3805.9
37.5°	12795.8	12769.5	11088.9	7348.7	4842.2	4018.9	3698.0	3556.0	3421.9	3348.2	3350.9
40°	13679.6	13653.3	11415.0	7093.6	4371.4	3724.3	3416.6	3229.9	3064.2	2930.0	2943.2
42.5°	14673.8	14518.6	11570.2	6728.0	3971.6	3474.5	3187.8	2935.3	2717.0	2593.4	2601.3
45°	15760.1	15410.2	11567.5	6262.5	3634.9	3245.6	2943.2	2585.5	2382.9	2267.2	2262.0
47.5°	16912.1	16262.4	11425.5	5746.9	3308.8	2993.1	2564.4	2290.9	2156.7	2085.7	2070.0
50°	18100.9	17059.4	11183.5	5155.2	2974.7	2706.5	2327.7	2141.0	2038.4	1972.6	1949.0
52.5°	19218.7	17782.7	10891.6	4484.5	2635.4	2427.7	2222.5	2077.8	1970.0	1896.4	1864.8
55°	20257.7	18406.0	10478.6	3798.0	2359.3	2240.9	2172.5	2051.5	1927.9	1841.1	1806.9
57.5°	21180.9	18811.1	9765.9	3153.6	2162.0	2112.0	2119.9	2006.8	1864.8	1791.2	1743.8
60°	21948.9	19108.3	8711.2	2556.5	2001.6	1985.8	2038.4	1922.7	1757.0	1672.8	1636.0
62.5°	22409.2	19103.0	7417.1	2093.6	1864.8	1870.1	1930.6	1817.5	1649.1	1570.2	1546.5
65°	22369.7	18634.8	5996.8	1791.2	1733.3	1738.6	1817.5	1701.7	1559.7	1512.4	1509.7
67.5°	21578.0	17493.3	4600.2	1593.9	1588.6	1612.3	1704.4	1622.8	1504.5	1499.2	1507.1
70°	19434.4	15123.6	3314.0	1436.1	1438.7	1472.9	1593.9	1572.8	1475.5	1486.1	1483.4
72.5°	15583.8	11530.7	2225.1	1270.4	1273.0	1328.2	1488.7	1533.4	1446.6	1586.0	1607.0
75°	10378.7	7190.9	1430.8	1094.2	1096.8	1167.8	1396.6	1457.1	1367.7	1580.7	1593.9
77.5°	4986.8	3232.5	1036.3	920.6	920.6	986.3	1207.3	1304.6	1165.2	1228.3	1125.7
80°	1722.8	1215.1	815.4	741.7	725.9	770.6	1017.9	1131.0	1004.7	925.8	868.0
82.5°	678.6	631.2	654.9	576.0	523.4	552.3	791.7	933.7	739.1	668.1	665.4
85°	389.3	410.3	462.9	381.4	302.5	339.3	581.3	670.7	557.6	491.8	502.4
87.5°	105.2	144.7	213.0	197.3	136.8	144.7	276.2	370.9	320.9	247.2	255.1
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)