

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: P957328

Luminaire Tested: **GALN-SB9D-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-722-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 77871 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 658
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

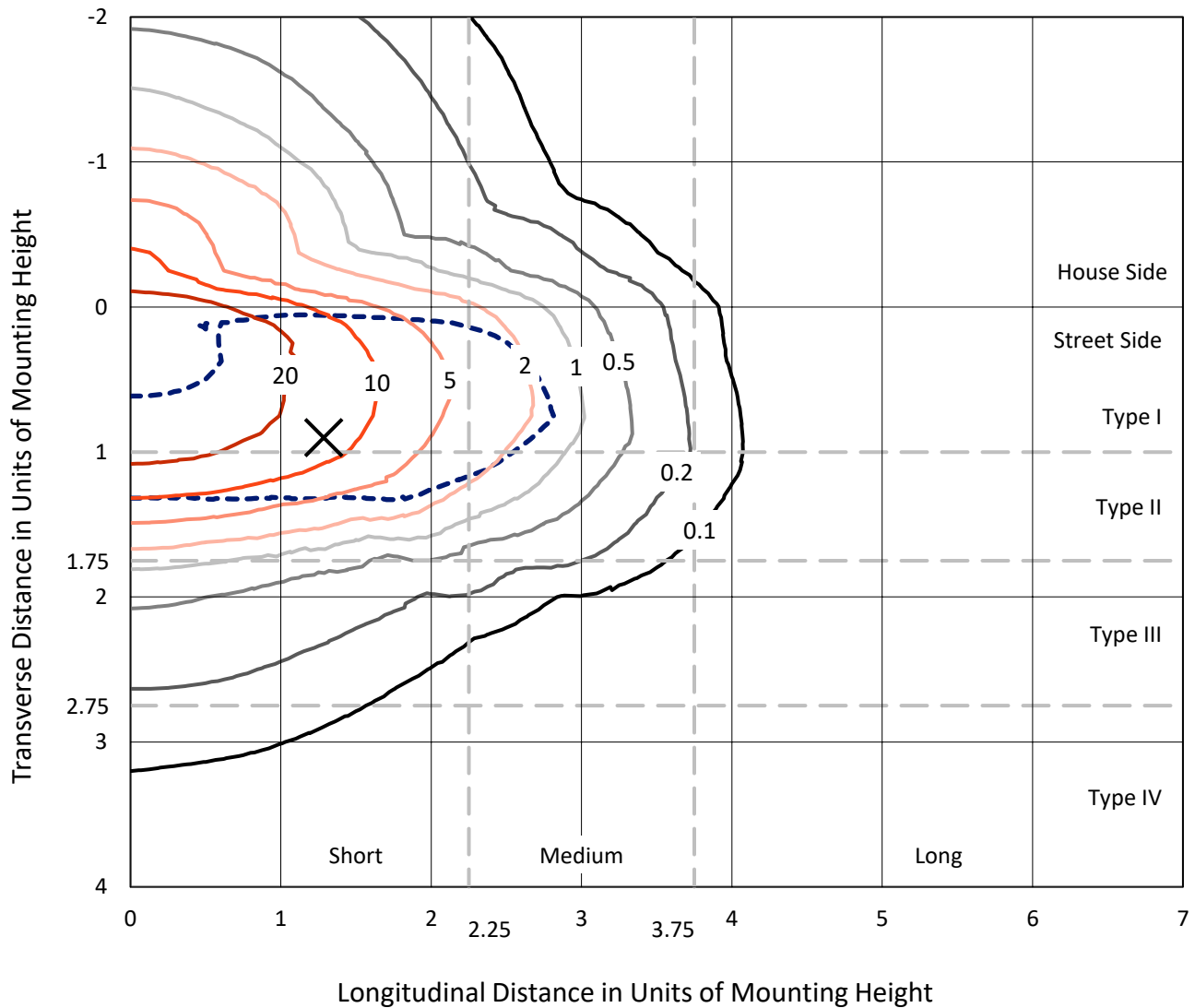


REPORT NUMBER: P957328

CATALOG NUMBER: GALN-SB9D-722-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

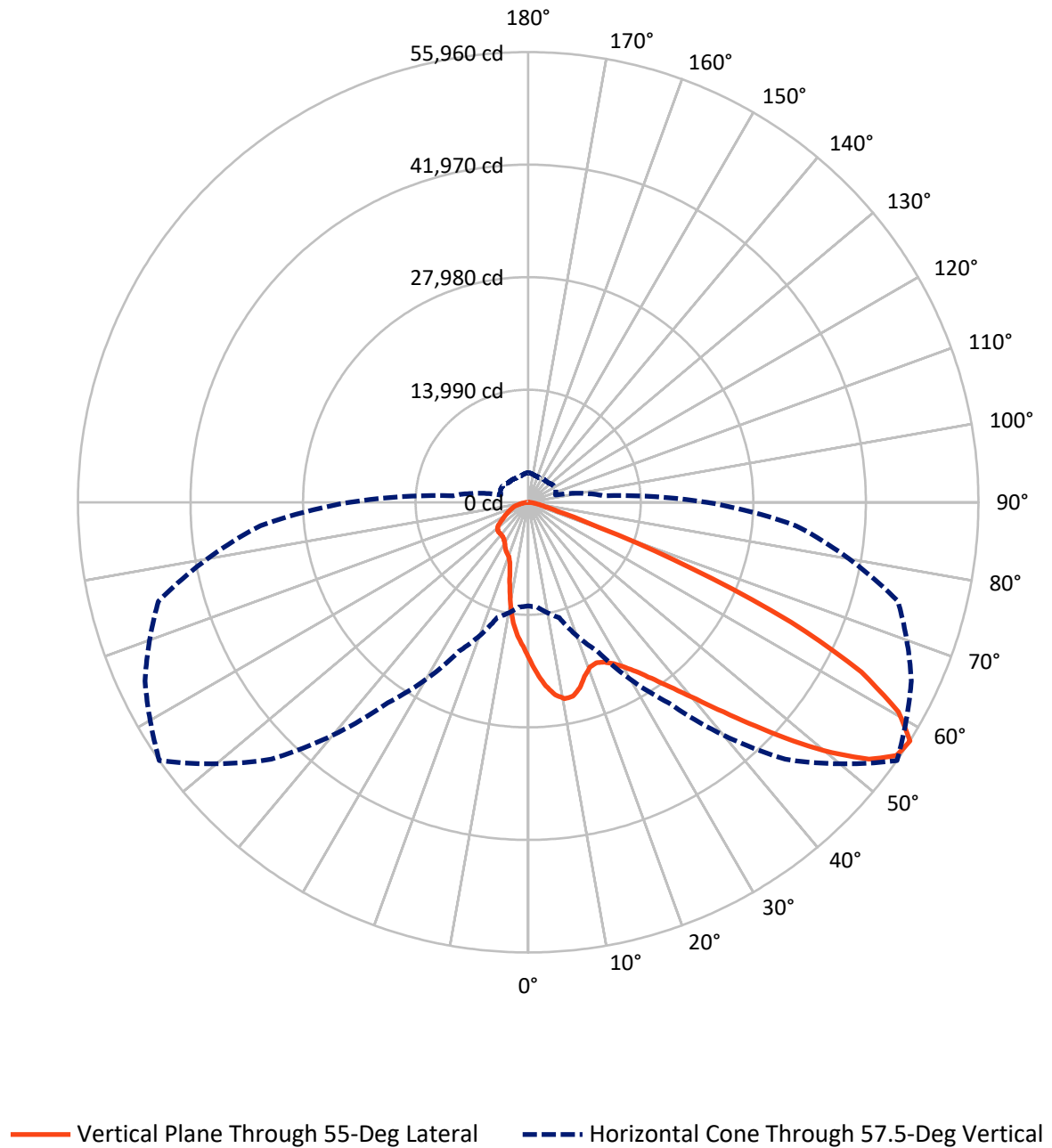


Based on 25 foot mounting height. Maximum calculated value = 37.7 fc
Type II - Short - N/A

REPORT NUMBER: P957328

CATALOG NUMBER: GALN-SB9D-722-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P957328

CATALOG NUMBER: GALN-SB9D-722-U-AFL

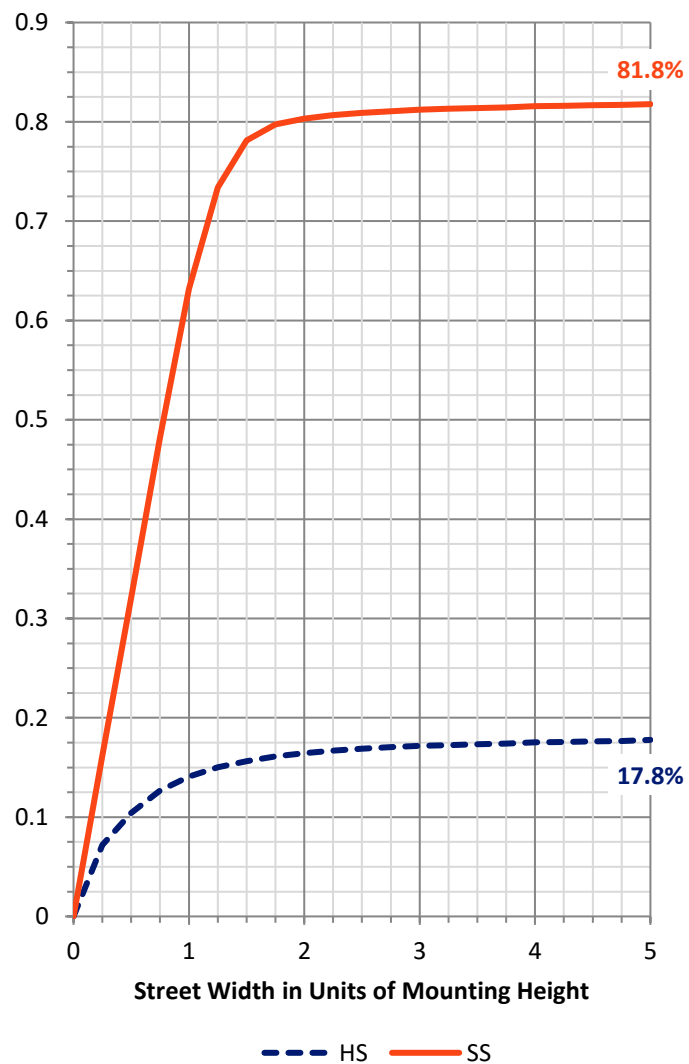
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14090.4	0.0	14090.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	63780.6	0.0	63780.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	77871.0	0.0	77871.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1810.6	2.3
10°-20°	4570.0	5.9
20°-30°	7292.5	9.4
30°-40°	11545.8	14.8
40°-50°	17672.0	22.7
50°-60°	18928.3	24.3
60°-70°	11907.9	15.3
70°-80°	3521.4	4.5
80°-90°	622.6	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°	77871.0	100.0
0°-180°	77871.0	100.0

Coefficient of Utilization



REPORT NUMBER: P957328

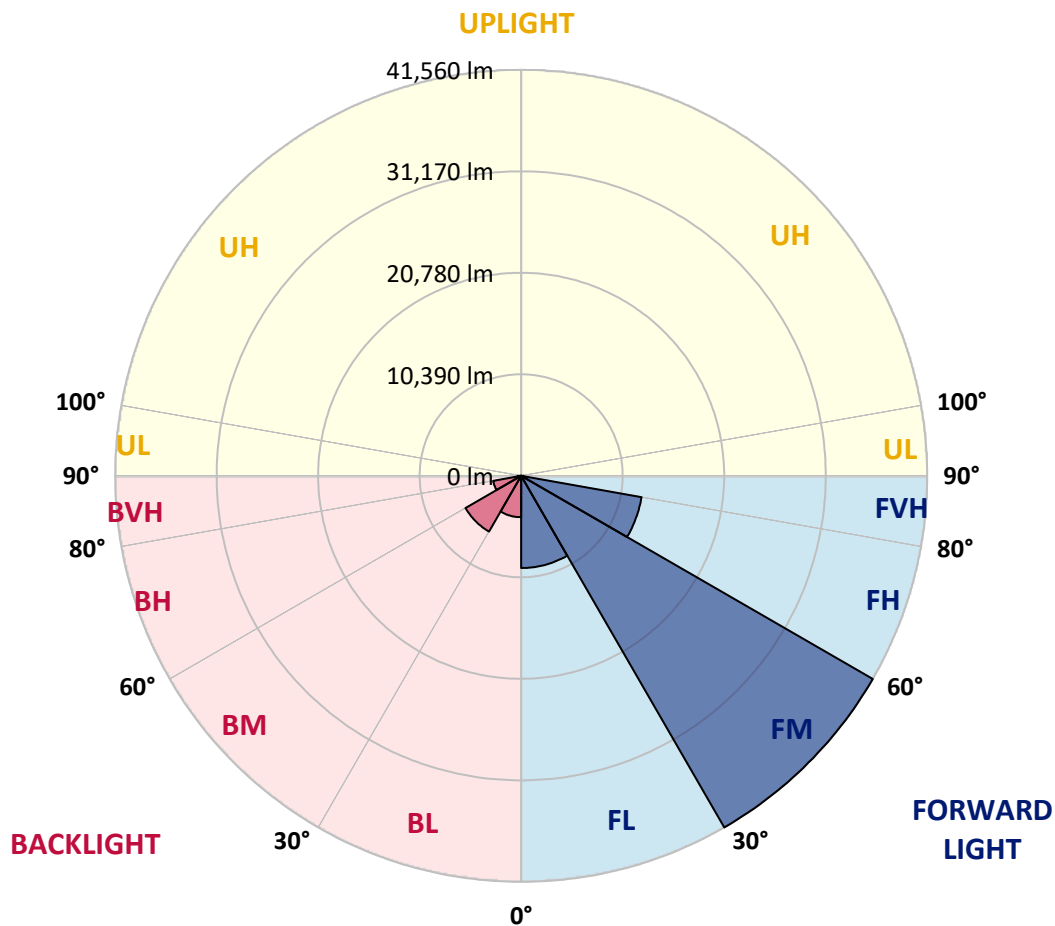
CATALOG NUMBER: GALN-SB9D-722-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9438.0	12.1			
FM	(30°-60°)	41560.3	53.4			
FH	(60°-80°)	12519.3	16.1			G5
FVH	(80°-90°)	263.1	0.3			G3/500
BL	(0°-30°)	4235.1	5.4	B4/5000		
BM	(30°-60°)	6585.7	8.5	B4/8500		
BH	(60°-80°)	2910.0	3.7	B4/5000		G4/5000
BVH	(80°-90°)	359.6	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 Short



REPORT NUMBER: P957328

CATALOG NUMBER: GALN-SB9D-722-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	19511.9	19511.9	19511.9	19511.9	19511.9	19511.9	19511.9	19511.9	19511.9	19511.9	19511.9
2.5°	22386.2	22370.1	22458.7	22156.7	21951.4	21673.7	21307.3	20840.4	20337.2	19805.8	19576.4
5°	24403.0	24262.1	24354.7	24129.3	23903.8	23485.2	22941.7	22180.9	21251.0	20192.3	19628.7
7.5°	24085.0	23988.4	24225.9	24427.2	24596.2	24543.9	24145.4	23348.3	22148.7	20610.9	19793.7
10°	21520.7	21412.0	21746.1	22442.6	23465.1	24354.7	24837.8	24342.6	23066.5	21069.8	19954.8
12.5°	19258.3	19206.0	19427.4	19991.0	21126.2	22833.0	24749.2	25212.2	24020.6	21613.3	20172.1
15°	18292.2	18227.8	18368.7	18654.5	19379.1	20969.2	23944.1	25807.9	24958.5	22241.3	20518.3
17.5°	18078.8	18006.4	18066.8	18215.7	18682.7	19894.4	22728.4	26101.8	25936.8	22941.7	20808.2
20°	18473.3	18413.0	18421.0	18413.0	18739.0	19701.1	21883.0	25989.1	26790.2	23585.8	21090.0
22.5°	19427.4	19326.8	19330.8	19117.4	19294.6	20039.3	21661.6	25687.2	27551.0	24149.4	21303.3
25°	20981.3	20800.1	20836.4	20292.9	20244.6	20796.1	22007.8	25453.7	28307.8	24600.3	21343.6
27.5°	23106.8	22901.5	22792.8	21983.6	21597.2	21870.9	22712.3	25534.2	29024.4	24990.7	21242.9
30°	25763.7	25514.1	25292.7	24145.4	23444.9	23344.3	23807.2	26065.6	29869.7	25401.4	21069.8
32.5°	29020.3	28730.5	28327.9	26806.3	25820.0	25292.7	25224.2	27011.6	30860.0	25924.7	20981.3
35°	32897.0	32518.6	31946.9	29978.4	28730.5	27651.7	27092.1	28376.3	32216.6	26713.7	21081.9
37.5°	36890.3	36463.6	35940.3	33597.4	32063.7	30473.6	29370.6	30228.0	34024.1	27784.5	21347.6
40°	40573.7	40094.7	39607.6	37522.4	35875.9	33959.7	32160.3	32570.9	36234.2	29064.6	21798.5
42.5°	42747.5	42393.3	42208.1	41081.0	39808.9	37864.5	35630.3	35348.5	38717.9	30538.0	22313.7
45°	42650.9	42506.0	43077.6	43544.6	43242.7	42163.8	39696.2	38420.1	41209.8	31814.1	22788.8
47.5°	40372.5	40469.1	41745.2	44369.8	45525.2	46088.8	44325.6	41435.2	43375.5	32768.2	23002.1
50°	34173.1	34253.6	37208.4	42868.3	46112.9	49289.1	48918.7	44377.9	45054.2	33351.9	22953.8
52.5°	29265.9	29318.2	30586.3	38416.0	44172.6	50899.3	53057.0	47151.5	46282.0	33512.9	22684.1
55°	22044.0	22225.2	23646.2	30139.5	39124.5	49623.2	55577.0	50009.7	47058.9	33529.0	22402.3
57.5°	12877.8	13075.1	14830.2	20458.0	30409.2	45175.0	55959.5	52545.8	47586.3	33400.2	22233.2
60°	6308.1	6392.6	7157.5	10752.3	18751.1	36604.5	52883.9	53773.6	47880.1	33331.7	22225.2
62.5°	4251.0	4238.9	4271.1	5305.7	9238.7	23517.4	46475.2	51623.9	47723.1	33070.1	22144.7
65°	3655.2	3610.9	3490.2	3723.7	4786.4	10756.3	35908.1	45207.2	46527.6	32413.9	21593.2
67.5°	3160.1	3164.1	3168.1	3095.7	3417.7	4963.5	21943.4	35610.2	42236.3	29306.2	19467.7
70°	2616.6	2652.9	2669.0	2669.0	2785.7	3256.7	9367.5	24407.0	33315.6	22978.0	15679.6
72.5°	2383.1	2306.7	2314.7	2274.4	2274.4	2479.8	3772.0	13835.9	20989.3	12926.1	9568.8
75°	1944.4	1992.7	2000.7	1972.5	1879.9	1892.0	2238.2	5804.9	8981.0	5362.1	4730.0
77.5°	1678.7	1678.7	1694.8	1674.6	1602.2	1417.0	1493.5	2250.3	3055.4	2198.0	2363.0
80°	1348.6	1344.5	1413.0	1453.2	1340.5	1046.6	954.1	1243.9	1356.6	966.1	1227.8
82.5°	656.2	696.4	970.2	1107.0	1018.5	756.8	583.7	772.9	724.6	426.7	551.5
85°	382.4	362.3	434.8	615.9	583.7	418.7	281.8	402.6	378.4	217.4	221.4
87.5°	120.8	112.7	88.6	209.3	169.1	116.7	76.5	116.7	104.7	48.3	48.3
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: P957328

CATALOG NUMBER: GALN-SB9D-722-U-AFL

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	19511.9	19511.9	19511.9	19511.9	19511.9	19511.9	19511.9	19511.9	19511.9	19511.9
2.5°	19290.5	18815.5	18344.5	17913.8	17652.1	17483.1	17314.0	17124.8	17052.3	16943.6
5°	19097.3	18179.5	17362.3	16657.8	16017.7	15514.6	15007.3	14596.7	14411.5	14536.3
7.5°	18984.6	17656.2	16396.2	15103.9	13860.0	12865.7	12000.2	11392.4	11118.6	11187.1
10°	18884.0	17064.4	15144.2	13103.2	11315.9	10084.1	9198.4	8735.5	8562.4	8598.6
12.5°	18791.4	16400.2	13634.6	10949.6	9049.5	8236.3	7982.7	7986.7	8018.9	8043.1
15°	18775.3	15599.1	11947.9	9065.6	7825.7	7773.4	8047.1	8220.2	8312.8	8341.0
17.5°	18751.1	14641.0	10229.0	7781.4	7527.8	7882.1	8135.7	8248.4	8320.9	8324.9
20°	18654.5	13425.3	8642.9	7169.5	7463.4	7769.4	7926.4	8014.9	8075.3	8095.4
22.5°	18356.6	12072.7	7407.1	6895.8	7205.8	7451.3	7636.5	7737.1	7773.4	7797.5
25°	17821.2	10559.1	6553.6	6634.1	6847.5	7157.5	7306.4	7326.5	7314.5	7350.7
27.5°	17120.8	8936.8	6022.3	6279.9	6553.6	6819.3	6899.8	6887.8	6863.6	6903.9
30°	16275.4	7479.5	5684.1	5881.4	6255.7	6497.3	6569.7	6541.6	6493.2	6537.5
32.5°	15381.7	6287.9	5406.3	5603.6	6010.2	6247.7	6320.1	6292.0	6255.7	6292.0
35°	14548.4	5454.6	5148.7	5418.4	5817.0	6050.4	6143.0	6147.0	6147.0	6191.3
37.5°	13783.6	4967.6	4935.4	5301.7	5684.1	5893.4	6026.3	6034.3	5861.2	5873.3
40°	13075.1	4762.3	4838.7	5225.2	5555.3	5756.6	5764.6	5313.8	4995.7	4987.7
42.5°	12495.4	4722.0	4866.9	5217.1	5462.7	5470.8	4903.1	4552.9	4464.4	4468.4
45°	11951.9	4709.9	4931.3	5217.1	5325.8	4726.0	4343.6	4251.0	4259.1	4291.3
47.5°	11344.1	4661.6	4943.4	5144.7	4931.3	4202.7	4090.0	4049.7	4033.6	4041.7
50°	10679.8	4488.5	4790.4	4999.8	4255.0	3977.3	3836.4	3824.3	3844.4	3856.5
52.5°	9979.4	4206.7	4528.8	4738.1	3945.1	3780.0	3623.0	3651.2	3739.8	3767.9
55°	9520.5	3876.6	4182.6	4214.8	3727.7	3594.8	3462.0	3526.4	3691.4	3743.8
57.5°	9399.7	3526.4	3788.1	3751.8	3449.9	3433.8	3353.3	3409.7	3619.0	3695.5
60°	9363.5	3212.4	3401.6	3373.4	3180.2	3256.7	3236.6	3264.7	3337.2	3361.4
62.5°	9081.7	2962.8	3055.4	3015.2	2938.7	3071.5	3119.8	3059.4	3115.8	3144.0
65°	8365.1	2761.5	2717.3	2689.1	2721.3	2842.1	2938.7	2817.9	2870.2	2950.7
67.5°	7181.6	2487.8	2367.0	2399.2	2499.9	2564.3	2689.1	2552.2	2596.5	2733.4
70°	5808.9	2141.6	2032.9	2125.5	2222.1	2355.0	2375.1	2282.5	2387.2	2540.1
72.5°	4110.1	1791.4	1714.9	1904.1	1936.3	2109.4	2065.1	2020.8	2165.8	2218.1
75°	2850.1	1445.2	1400.9	1545.8	1662.6	1811.5	1779.3	1831.6	2137.6	2161.7
77.5°	1803.5	1123.1	1095.0	1187.5	1348.6	1513.6	1565.9	2161.7	3651.2	3796.1
80°	1046.6	837.3	805.1	877.6	1018.5	1171.4	1509.6	2652.9	2407.3	2379.1
82.5°	583.7	575.7	535.4	555.5	680.3	845.4	2133.6	1867.9	1517.6	1565.9
85°	273.7	338.1	289.8	277.8	382.4	990.3	1425.1	1066.8	708.5	692.4
87.5°	72.5	64.4	64.4	72.5	161.0	853.4	567.6	454.9	269.7	261.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)