

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: P530021

Luminaire Tested: **GALN-SA5B-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530021  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-727-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17778 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

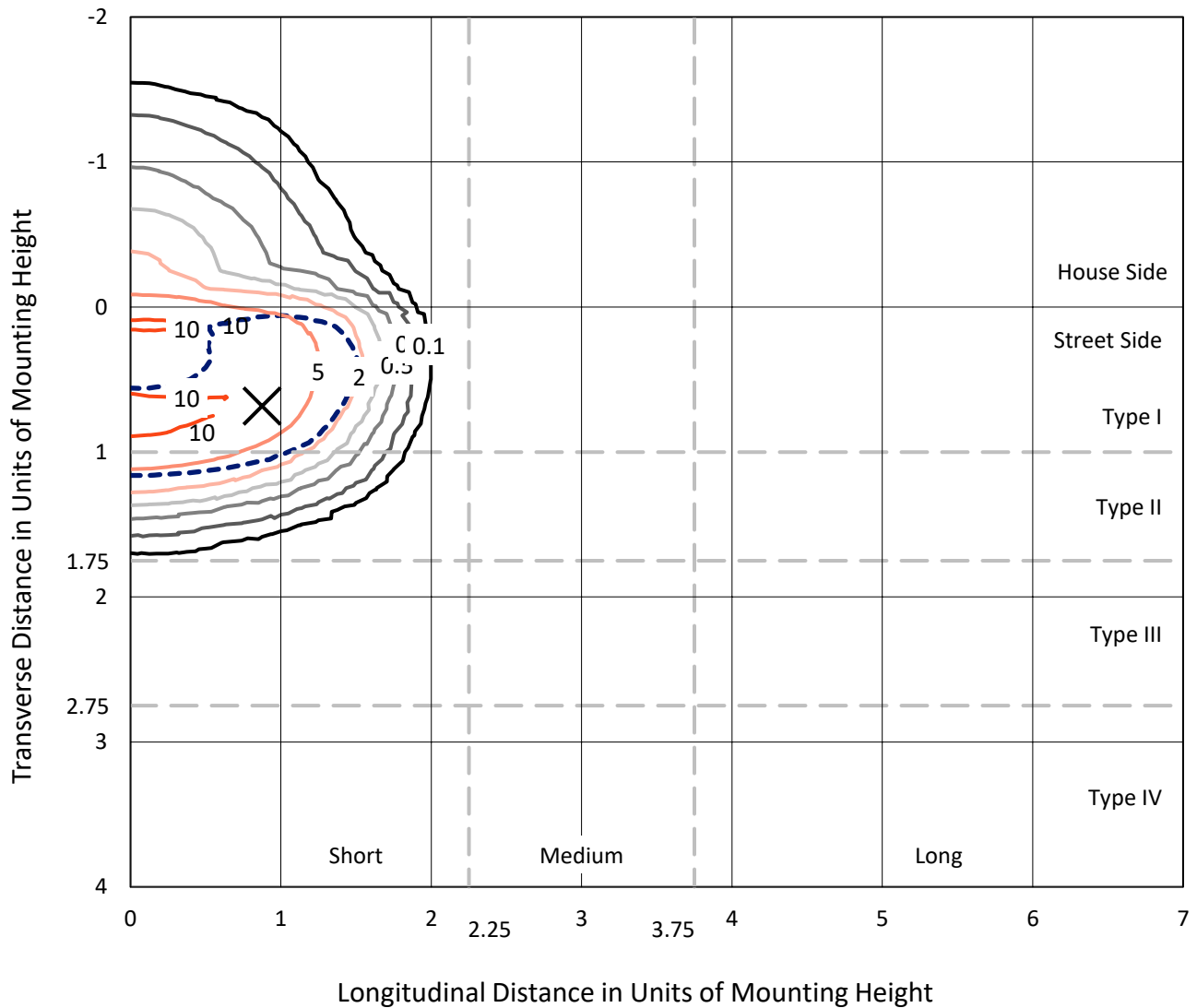
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P530021  
 CATALOG NUMBER: GALN-SA5B-727-U-AFL-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

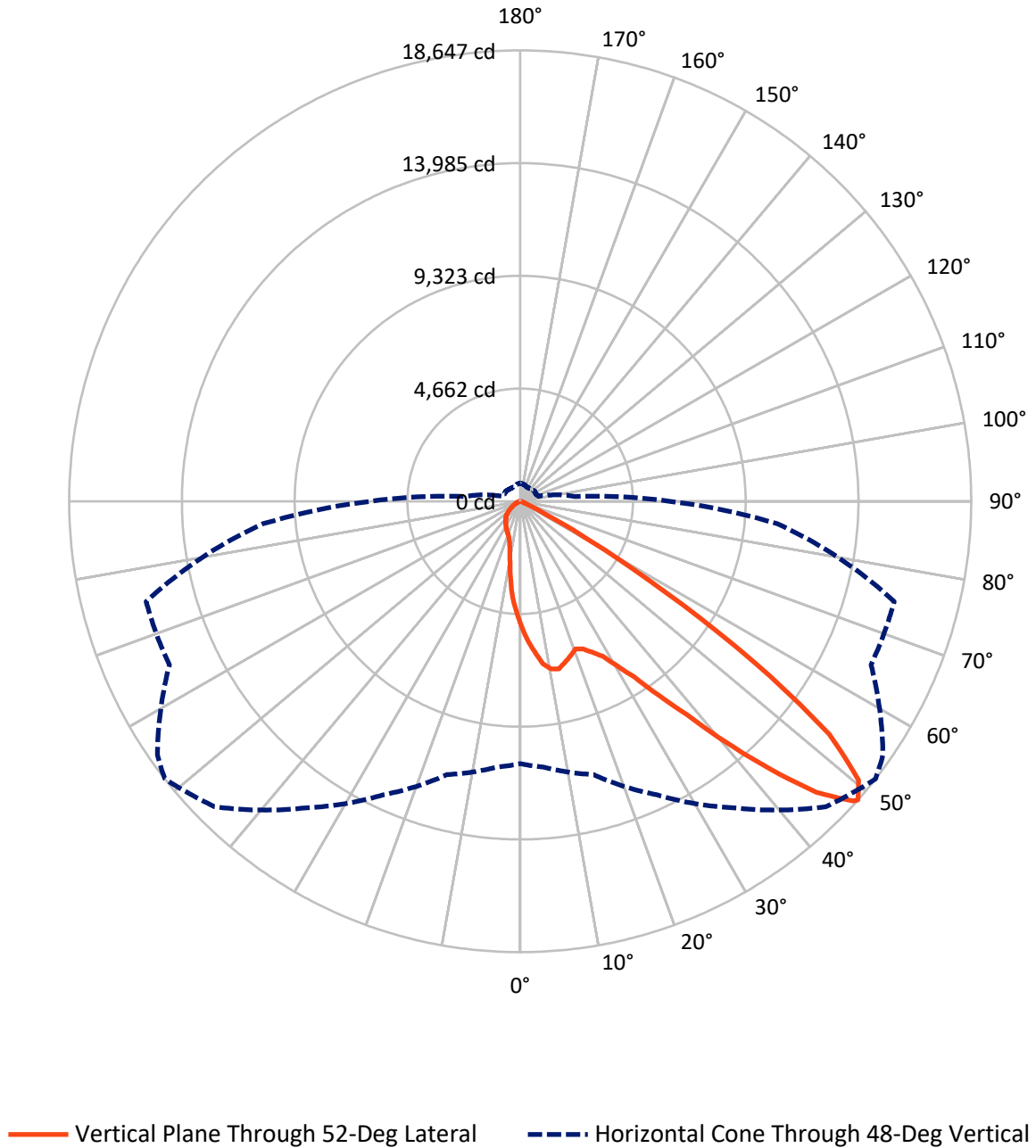
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P530021  
CATALOG NUMBER: GALN-SA5B-727-U-AFL-GRSBK

### Luminous Intensity Polar Plot



REPORT NUMBER: P530021

CATALOG NUMBER: GALN-SA5B-727-U-AFL-GRSBK

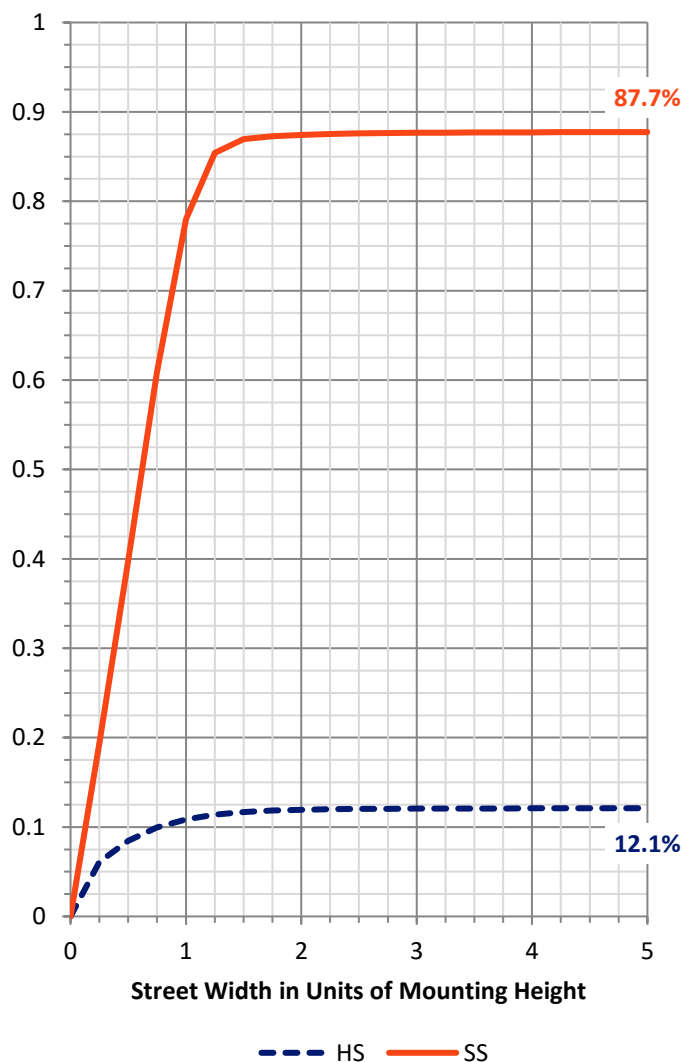
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2164.6	0.0	2164.6
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	15613.4	0.0	15613.4
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	17778.0	0.0	17778.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	469.9	2.6
10°-20°	1228.0	6.9
20°-30°	2096.8	11.8
30°-40°	3861.2	21.7
40°-50°	5996.4	33.7
50°-60°	3608.8	20.3
60°-70°	417.4	2.3
70°-80°	80.8	0.5
80°-90°	18.7	0.1
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°	17778.0	100.0
0°-180°	17778.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P530021

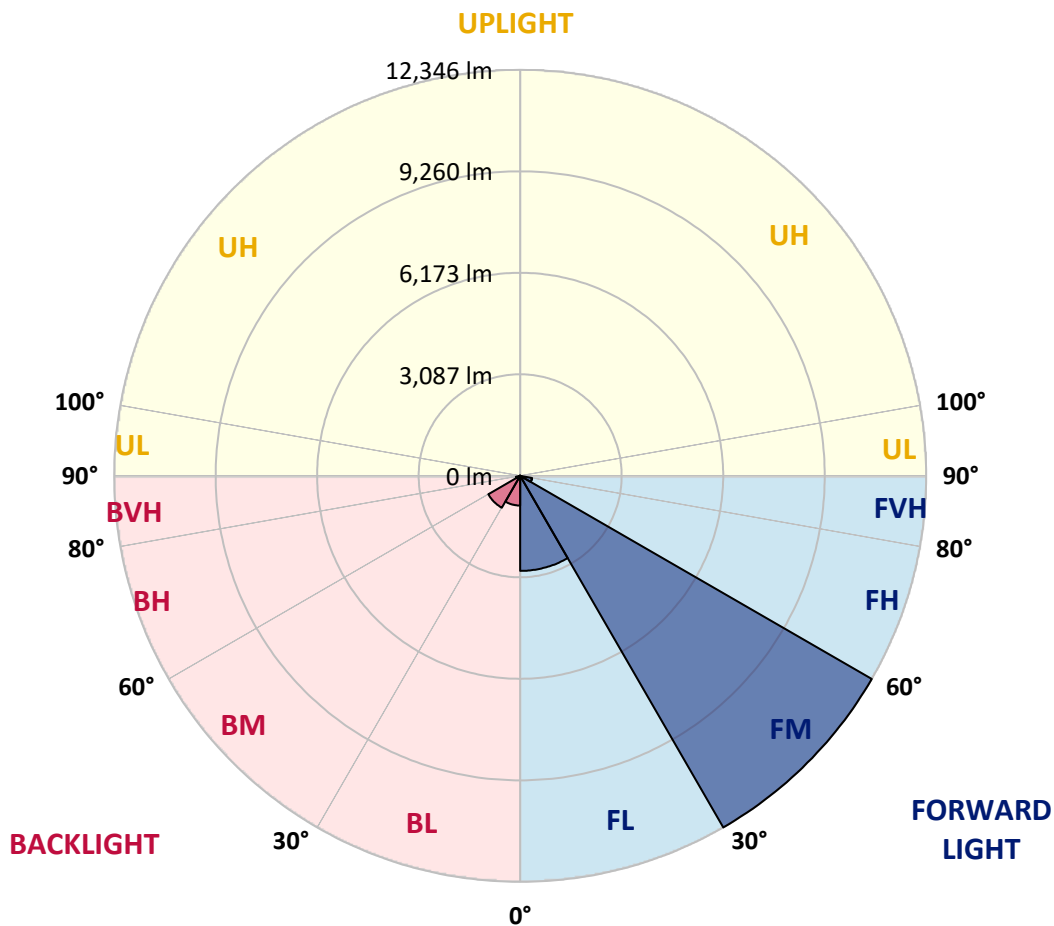
CATALOG NUMBER: GALN-SA5B-727-U-AFL-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2890.5	16.3			
FM (30°-60°)	12346.5	69.4			
FH (60°-80°)	367.6	2.1			G0/660
FVH (80°-90°)	8.9	0.1			G0/10
BL (0°-30°)	904.2	5.1	B2/1000		
BM (30°-60°)	1119.9	6.3	B2/2500		
BH (60°-80°)	130.6	0.7	B1/500		G1/500
BVH (80°-90°)	9.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





REPORT NUMBER: P530021

CATALOG NUMBER: GALN-SA5B-727-U-AFL-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0
2.5°	6222.5	6079.9	6092.9	5999.6	5945.2	5857.1	5737.8	5714.5	5584.9	5408.7	5229.9
5°	6782.3	6748.6	6792.6	6657.9	6663.0	6517.9	6238.0	6243.2	5945.2	5657.5	5380.2
7.5°	6818.5	6740.8	6784.9	6904.1	6974.0	6948.1	6790.0	6652.7	6370.2	5947.8	5543.5
10°	6105.8	6253.6	6300.2	6497.2	6777.1	7072.5	7054.4	7062.2	6826.3	6274.3	5683.4
12.5°	5678.2	5579.7	5737.8	5857.1	6279.5	6852.2	7114.0	7171.0	7189.1	6590.5	5823.4
15°	5483.9	5483.9	5509.8	5543.5	5849.3	6378.0	6911.8	7077.7	7469.0	7005.1	6043.6
17.5°	5605.7	5600.5	5636.8	5566.8	5680.8	6087.7	6725.2	6914.4	7782.6	7412.0	6217.3
20°	5976.3	5994.4	5971.1	5768.9	5776.7	6082.5	6517.9	6815.9	7995.1	7764.5	6447.9
22.5°	6492.0	6502.4	6370.2	6149.9	6085.1	6235.4	6637.1	6865.2	8166.2	8186.9	6517.9
25°	7088.1	7046.6	7020.7	6709.7	6512.7	6642.3	6906.7	7038.8	8272.4	8549.7	6717.5
27.5°	7914.8	7831.9	7673.8	7396.5	7251.3	7067.3	7256.5	7474.2	8575.7	9057.7	6935.2
30°	9135.4	9062.9	8754.5	8396.8	8015.9	7834.5	7894.1	8013.3	9122.5	9646.0	7222.8
32.5°	10972.9	10820.0	10374.2	9692.6	9174.3	8674.1	8658.6	8785.6	9612.3	10459.8	7564.9
35°	12997.0	12950.3	12294.6	11592.3	10589.3	9817.0	9830.0	9897.4	10550.5	11527.5	8013.3
37.5°	14342.0	14598.6	14181.3	13427.2	12584.9	11480.9	11201.0	11224.3	11838.5	12792.2	8821.9
40°	15381.2	15163.5	15212.8	15036.6	14461.2	13709.6	13090.3	12968.4	13328.7	14191.7	9625.3
42.5°	14927.7	14938.1	15241.3	15658.5	15801.1	15746.7	15114.3	14883.7	14603.8	15337.2	10389.8
45°	13647.4	13914.4	14308.3	15412.3	16381.6	17291.3	17166.9	16783.3	15484.9	16244.2	10830.4
47.5°	11605.3	11594.9	12240.2	13676.0	15829.6	17959.9	18524.9	18255.3	16109.5	16143.2	10739.7
48°	10851.1	11037.7	11703.7	13393.5	15479.7	17861.4	18646.7	18307.2	16003.2	16008.4	10661.9
50°	8021.1	7987.4	8816.7	10890.0	13826.3	16783.3	18133.5	18397.9	16000.6	15326.8	10117.7
52.5°	4237.3	4382.4	4986.3	6847.0	9775.6	13735.6	15995.5	16407.5	15435.7	14212.4	9335.0
55°	1801.2	1627.5	2091.4	3091.8	5499.4	9176.9	11734.8	12652.3	13051.4	12577.1	8166.2
57.5°	642.7	702.3	808.6	1163.6	2311.7	5022.6	6997.4	7710.1	9042.1	9228.7	5564.2
60°	412.1	419.8	453.5	533.9	868.2	1935.9	3319.9	3887.4	4491.3	4636.4	2596.8
62.5°	318.8	321.4	336.9	349.9	412.1	751.6	1246.6	1477.2	1534.2	1319.1	681.6
65°	266.9	269.5	274.7	274.7	292.9	352.5	435.4	479.4	466.5	461.3	386.2
67.5°	204.7	209.9	220.3	220.3	230.7	215.1	241.0	256.6	290.3	352.5	329.1
70°	160.7	163.3	171.0	176.2	176.2	155.5	173.6	189.2	212.5	261.8	259.2
72.5°	124.4	129.6	134.8	134.8	127.0	106.3	124.4	137.4	152.9	181.4	176.2
75°	95.9	95.9	98.5	80.3	62.2	54.4	75.2	90.7	114.0	119.2	98.5
77.5°	25.9	28.5	25.9	23.3	25.9	38.9	49.2	57.0	72.6	72.6	64.8
80°	0.0	2.6	7.8	15.5	25.9	36.3	44.1	49.2	57.0	62.2	59.6
82.5°	0.0	2.6	7.8	15.5	23.3	28.5	38.9	41.5	46.6	54.4	54.4
85°	0.0	2.6	5.2	10.4	15.5	18.1	18.1	15.5	15.5	13.0	10.4
87.5°	0.0	0.0	2.6	5.2	5.2	7.8	7.8	7.8	7.8	7.8	7.8
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: P530021

CATALOG NUMBER: GALN-SA5B-727-U-AFL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0	5134.0
2.5°	5159.9	5079.6	4957.8	4766.0	4582.0	4462.8	4348.7	4221.7	4151.8	4146.6	4107.7
5°	5222.1	5040.7	4750.4	4421.3	4068.8	3765.6	3459.8	3260.3	3081.4	2982.9	2964.8
7.5°	5255.8	5020.0	4550.9	3998.9	3397.6	2902.6	2560.5	2309.1	2210.6	2138.1	2135.5
10°	5325.8	4983.7	4252.8	3439.1	2695.3	2195.1	1959.3	1845.2	1790.8	1770.1	1739.0
12.5°	5377.6	4916.3	3947.0	2863.7	2130.3	1819.3	1715.6	1689.7	1692.3	1702.7	1689.7
15°	5450.2	4856.7	3535.0	2350.6	1788.2	1637.9	1637.9	1643.1	1679.4	1684.6	1682.0
17.5°	5445.0	4740.1	3109.9	1935.9	1580.9	1560.2	1567.9	1617.2	1640.5	1648.3	1630.1
20°	5507.2	4631.2	2672.0	1653.5	1464.3	1495.4	1547.2	1560.2	1588.7	1593.8	1573.1
22.5°	5489.0	4359.1	2265.1	1430.6	1376.1	1435.8	1487.6	1503.1	1495.4	1479.8	1477.2
25°	5455.4	4125.9	1891.9	1282.8	1311.4	1376.1	1425.4	1396.9	1381.3	1383.9	1386.5
27.5°	5395.7	3830.4	1583.5	1179.2	1223.2	1319.1	1316.5	1306.2	1321.7	1308.8	1321.7
30°	5385.4	3535.0	1329.5	1085.9	1158.5	1228.4	1233.6	1251.8	1269.9	1246.6	1269.9
32.5°	5400.9	3211.0	1148.1	1028.9	1119.6	1122.2	1179.2	1197.3	1184.4	1132.5	1137.7
35°	5520.1	2962.2	1015.9	997.8	1057.4	1060.0	1114.4	1091.1	1034.1	1003.0	1021.1
37.5°	5771.5	2754.9	953.7	969.3	974.4	1008.1	1010.7	964.1	969.3	966.7	977.0
40°	6092.9	2596.8	909.7	943.3	938.2	961.5	868.2	894.1	917.4	925.2	930.4
42.5°	6313.2	2482.8	881.1	901.9	891.5	850.1	798.2	824.1	842.3	870.8	876.0
45°	6411.7	2392.1	847.5	829.3	829.3	754.2	733.4	738.6	780.1	811.2	806.0
47.5°	6251.0	2303.9	787.9	733.4	751.6	689.4	666.0	666.0	710.1	749.0	741.2
48°	6188.8	2267.7	790.4	712.7	725.7	679.0	655.7	650.5	699.7	736.0	736.0
50°	5880.4	2132.9	723.1	655.7	629.8	624.6	609.0	614.2	645.3	679.0	679.0
52.5°	5279.1	1842.6	611.6	562.4	515.7	546.8	554.6	544.2	559.8	590.9	588.3
55°	4405.7	1415.0	489.8	466.5	430.2	463.9	479.4	466.5	450.9	474.3	474.3
57.5°	2822.3	761.9	391.3	396.5	360.2	393.9	406.9	375.8	347.3	365.4	362.8
60°	1272.5	456.1	321.4	313.6	290.3	329.1	349.9	313.6	274.7	287.7	300.6
62.5°	476.9	324.0	243.6	238.4	233.2	269.5	279.9	251.4	212.5	220.3	222.9
65°	349.9	285.1	194.4	176.2	186.6	212.5	207.3	178.8	152.9	152.9	158.1
67.5°	298.0	248.8	158.1	137.4	137.4	139.9	129.6	114.0	106.3	111.4	116.6
70°	233.2	197.0	124.4	106.3	95.9	85.5	75.2	72.6	64.8	72.6	70.0
72.5°	150.3	132.2	95.9	80.3	72.6	59.6	49.2	46.6	38.9	36.3	36.3
75°	80.3	80.3	75.2	64.8	57.0	46.6	38.9	31.1	20.7	15.5	15.5
77.5°	57.0	62.2	67.4	62.2	51.8	38.9	31.1	20.7	10.4	5.2	5.2
80°	54.4	62.2	67.4	59.6	51.8	38.9	28.5	15.5	7.8	2.6	2.6
82.5°	49.2	57.0	62.2	54.4	46.6	33.7	25.9	15.5	7.8	2.6	2.6
85°	10.4	13.0	15.5	15.5	18.1	23.3	18.1	13.0	5.2	2.6	2.6
87.5°	7.8	7.8	7.8	7.8	7.8	7.8	5.2	5.2	2.6	2.6	2.6
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)