

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: P457233

Luminaire Tested: **GALN-SA8C-740-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40880 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

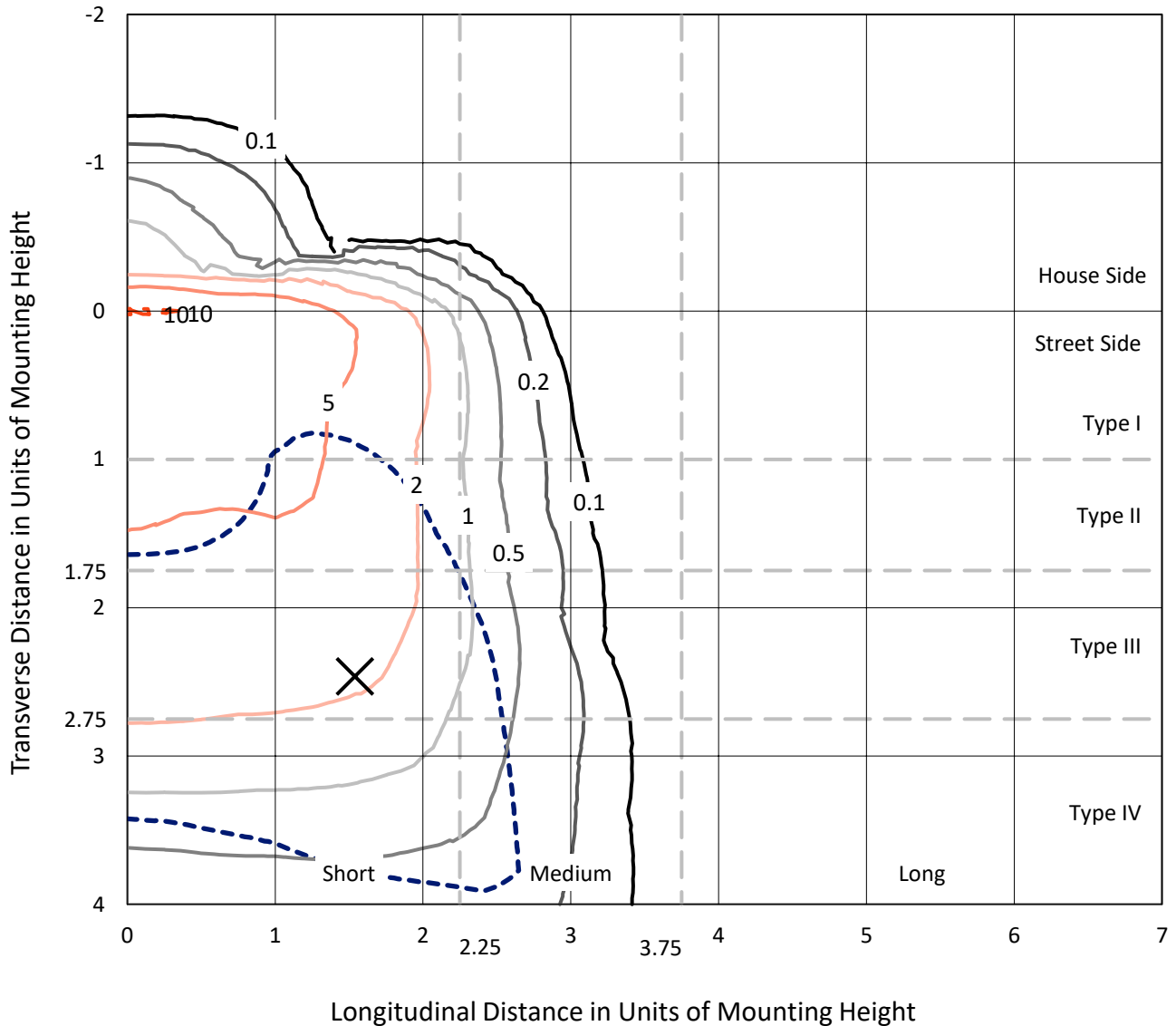
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

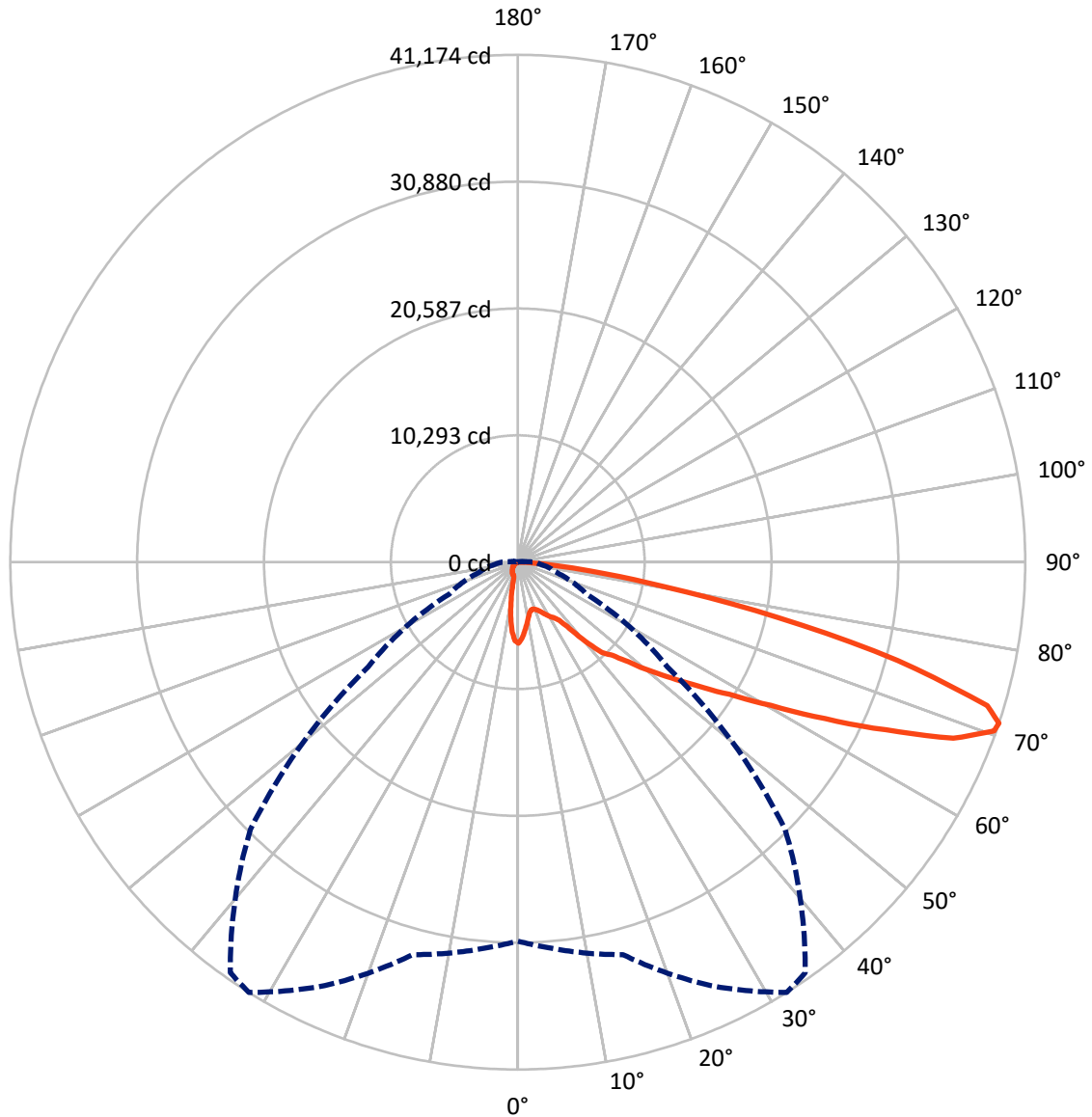
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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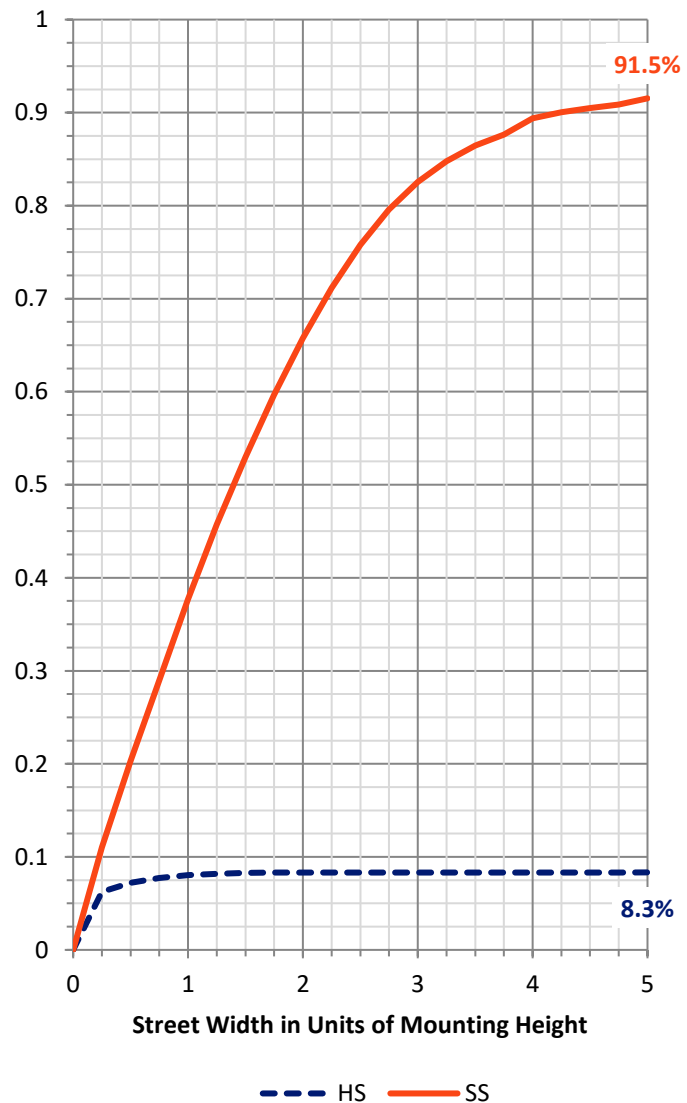
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3424.1	0.0	3424.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	37455.9	0.0	37455.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	40880.0	0.0	40880.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.6	1.3
10°-20°	1160.2	2.8
20°-30°	1804.9	4.4
30°-40°	3006.9	7.4
40°-50°	5593.4	13.7
50°-60°	8980.4	22.0
60°-70°	12079.0	29.5
70°-80°	7166.7	17.5
80°-90°	554.0	1.4
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°	40880.0	100.0
0°-180°	40880.0	100.0



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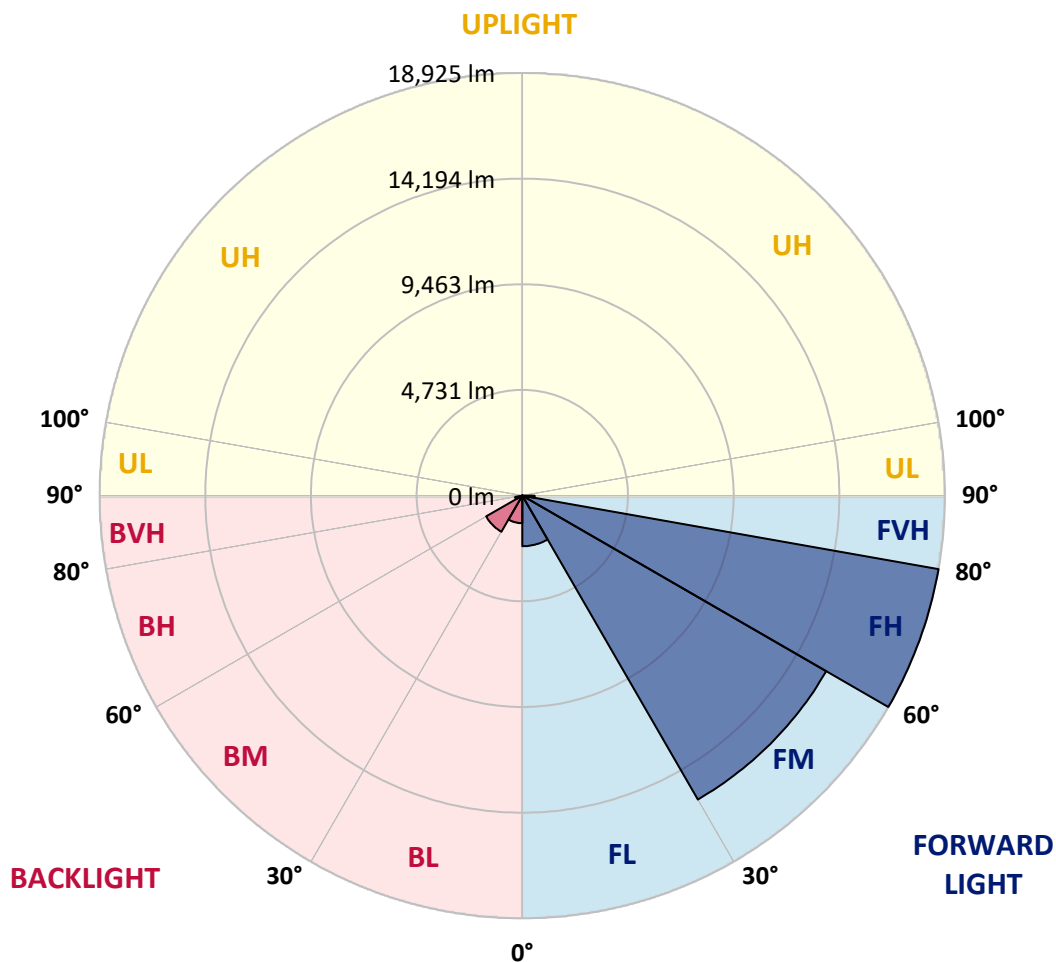
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2265.8	5.5			
FM	(30°-60°)	15712.8	38.4			
FH	(60°-80°)	18925.4	46.3			G5
FVH	(80°-90°)	551.8	1.3			G4/750
BL	(0°-30°)	1233.8	3.0	B3/2500		
BM	(30°-60°)	1867.9	4.6	B2/2500		
BH	(60°-80°)	320.3	0.8	B1/500		G1/500
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	6574.1	6574.1	6574.1	6574.1	6574.1	6574.1	6574.1	6574.1	6574.1	6574.1	6574.1
2.5°	6097.2	6159.9	6150.5	6172.5	6225.8	6247.8	6307.4	6373.3	6464.3	6527.1	6567.9
5°	5460.1	5507.2	5513.5	5623.3	5676.7	5736.3	5912.0	6103.4	6316.8	6486.3	6599.2
7.5°	4779.2	4804.3	4854.5	4998.9	5133.8	5193.4	5460.1	5792.8	6128.5	6445.5	6649.5
10°	4217.5	4245.7	4336.7	4490.5	4616.0	4694.5	5064.8	5482.1	5952.8	6423.5	6721.6
12.5°	3897.4	3913.1	3947.6	4085.7	4245.7	4330.5	4729.0	5206.0	5811.6	6432.9	6844.0
15°	3875.4	3869.2	3828.4	3884.9	4029.2	4117.1	4506.2	5017.7	5686.1	6464.3	6988.4
17.5°	3991.6	3975.9	3878.6	3878.6	3997.8	4070.0	4412.0	4917.3	5623.3	6536.5	7192.3
20°	4170.4	4145.3	3985.3	3972.7	4088.8	4164.1	4468.5	4923.5	5635.9	6671.4	7465.3
22.5°	4396.4	4368.1	4126.5	4132.8	4258.3	4333.6	4631.7	5036.5	5714.3	6837.7	7757.2
25°	4691.3	4660.0	4374.4	4361.8	4493.6	4559.5	4873.3	5237.3	5824.2	7044.8	8140.0
27.5°	5083.6	5017.7	4675.6	4656.8	4798.0	4882.8	5165.2	5507.2	6018.7	7330.4	8654.6
30°	5406.8	5334.6	5008.3	4958.1	5108.7	5174.6	5466.4	5871.2	6401.6	7829.3	9367.0
32.5°	5830.4	5723.7	5340.9	5209.1	5369.1	5453.9	5902.6	6549.0	6969.5	8356.5	10214.2
35°	6784.4	6718.5	6250.9	5789.6	5780.2	5886.9	6545.9	7233.1	7553.2	9178.7	11369.0
37.5°	8149.4	8102.4	7606.5	6988.4	6809.5	6759.3	7327.3	7986.2	8485.2	10308.4	12712.1
40°	9734.1	9624.3	9169.3	8645.2	8413.0	8265.5	8249.8	9106.5	9702.7	11842.9	14111.7
42.5°	10870.1	10669.3	10117.0	10079.3	10029.1	9875.3	9429.7	10744.6	11274.9	13493.5	15608.5
45°	12062.5	11758.1	10936.0	10794.8	10775.9	10766.5	11212.1	12683.9	12988.2	15282.1	17146.1
47.5°	12988.2	12746.6	12071.9	12009.2	12087.6	12301.0	13568.8	14742.4	14679.6	16876.2	18435.8
50°	14221.5	14039.5	13289.5	13408.7	13813.5	14161.9	16226.7	16986.1	16069.8	18131.5	19374.1
52.5°	15677.5	15341.8	14645.1	14968.3	15589.7	16170.2	19047.8	18950.5	17045.7	19076.0	20073.9
55°	16939.0	16700.5	16462.0	16797.8	17726.6	18451.5	21595.8	20422.2	17754.9	19835.4	20381.4
57.5°	19072.9	19016.4	18771.6	19113.7	20240.2	20993.3	23877.2	21564.4	18209.9	20230.8	20020.5
60°	22229.7	22138.7	21683.7	22119.9	23588.5	24771.5	25979.6	22590.6	18313.5	20077.0	18981.9
62.5°	26026.7	25716.0	25326.9	25970.2	27984.8	28505.7	27959.7	23199.3	17927.5	18853.2	16477.7
65°	29572.7	29252.6	29262.0	30617.6	32811.1	33165.7	30269.3	23108.3	16797.8	15787.4	12153.5
67.5°	32287.0	32233.7	32616.5	35261.9	38130.0	37885.3	32334.1	21746.4	13449.5	10233.1	6458.0
70°	32425.1	32528.7	33627.0	38092.4	41004.4	40615.3	32158.4	17676.4	8384.8	4707.0	2544.9
71°	30755.7	31452.3	32971.1	38004.5	41173.9	40668.7	30677.2	14805.2	6150.5	3282.4	1835.7
72.5°	26208.7	26575.9	29858.2	35767.1	39834.0	38754.5	26921.0	10377.4	3938.2	2008.3	1054.4
75°	14434.9	15338.6	19995.4	28060.1	31860.3	30912.6	17544.6	4929.8	1964.4	1098.3	436.2
77.5°	6872.3	6696.5	9756.1	16688.0	21602.1	21551.9	8839.8	2190.3	1145.4	743.7	219.7
80°	1964.4	2209.2	3734.2	7932.9	11993.5	12125.3	3395.3	1057.5	793.9	580.5	113.0
82.5°	593.1	605.6	1371.3	3508.3	5965.4	5623.3	1274.0	539.7	571.1	461.3	65.9
85°	103.6	128.7	404.8	1236.4	2275.1	1725.9	320.1	257.3	376.6	304.4	37.7
87.5°	6.3	9.4	134.9	141.2	200.8	116.1	56.5	37.7	81.6	81.6	22.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6574.1	6574.1	6574.1	6574.1	6574.1	6574.1	6574.1	6574.1	6574.1	6574.1	6574.1
2.5°	6596.1	6614.9	6602.4	6574.1	6527.1	6470.6	6395.3	6332.5	6279.2	6250.9	6285.4
5°	6636.9	6662.0	6599.2	6458.0	6244.7	6012.4	5748.8	5544.9	5384.8	5334.6	5315.8
7.5°	6699.7	6715.4	6545.9	6232.1	5780.2	5231.1	4751.0	4346.2	4032.3	3938.2	3800.1
10°	6781.3	6771.8	6451.8	5868.1	5074.2	4248.9	3505.2	2952.9	2535.5	2384.9	2372.3
12.5°	6906.8	6856.6	6332.5	5372.3	4233.2	3153.7	2234.3	1747.9	1484.3	1396.4	1377.6
15°	7063.7	6944.4	6144.2	4791.7	3241.6	2036.6	1377.6	1230.1	1195.6	1189.3	1183.0
17.5°	7248.8	7060.5	5896.3	4079.4	2278.2	1321.1	1151.7	1148.5	1151.7	1145.4	1142.2
20°	7499.9	7182.9	5601.4	3235.3	1506.2	1114.0	1098.3	1098.3	1101.4	1098.3	1098.3
22.5°	7766.6	7327.3	5237.3	2469.6	1136.0	1057.5	1054.4	1060.6	1066.9	1063.8	1063.8
25°	8096.1	7515.5	4757.2	1691.4	1016.7	1010.4	1013.6	1026.1	1038.7	1041.8	1038.7
27.5°	8573.1	7747.8	4242.6	1164.2	932.0	938.3	969.6	1001.0	1019.9	1023.0	1023.0
30°	9109.7	8005.1	3571.1	944.5	863.0	863.0	900.6	960.2	1001.0	1007.3	1010.4
32.5°	9800.0	8303.2	2827.4	850.4	797.1	790.8	825.3	897.5	972.8	994.8	994.8
35°	10653.6	8654.6	2102.5	790.8	750.0	734.3	753.1	812.7	910.0	972.8	979.1
37.5°	11654.6	8987.3	1537.6	737.4	706.1	684.1	696.6	743.7	822.2	916.3	941.4
40°	12580.3	9282.2	1148.5	693.5	662.1	646.4	655.8	677.8	743.7	831.6	847.3
42.5°	13590.7	9511.3	913.2	646.4	618.2	611.9	611.9	621.3	665.3	715.5	718.6
45°	14598.0	9592.9	765.7	589.9	571.1	577.4	574.3	568.0	586.8	580.5	580.5
47.5°	15316.7	9495.6	633.9	536.6	536.6	546.0	530.3	508.4	498.9	461.3	464.4
50°	15809.3	9141.0	520.9	473.8	498.9	511.5	480.1	445.6	411.1	370.3	360.9
52.5°	16013.3	8510.3	426.8	392.3	442.5	458.2	420.5	379.7	326.4	291.8	282.4
55°	15881.5	7732.1	354.6	320.1	373.4	392.3	354.6	307.5	247.9	210.2	204.0
57.5°	15301.0	6803.2	301.2	254.2	298.1	310.7	285.6	235.4	175.7	138.1	138.1
60°	14296.8	5843.0	244.8	200.8	222.8	241.6	216.5	169.5	119.2	84.7	78.5
62.5°	12260.2	4744.7	197.7	156.9	156.9	172.6	150.6	122.4	75.3	43.9	40.8
65°	8852.3	3254.1	156.9	116.1	113.0	113.0	94.1	81.6	43.9	18.8	12.6
67.5°	4810.6	1835.7	125.5	87.9	78.5	75.3	59.6	47.1	18.8	3.1	0.0
70°	1892.2	706.1	97.3	59.6	50.2	47.1	31.4	22.0	12.6	0.0	0.0
71°	1283.4	486.4	84.7	50.2	40.8	34.5	25.1	18.8	9.4	0.0	0.0
72.5°	734.3	301.2	65.9	37.7	31.4	25.1	18.8	12.6	9.4	0.0	0.0
75°	320.1	153.8	40.8	28.2	22.0	15.7	12.6	9.4	3.1	0.0	0.0
77.5°	163.2	84.7	28.2	22.0	12.6	9.4	6.3	3.1	0.0	0.0	0.0
80°	91.0	43.9	18.8	12.6	9.4	6.3	3.1	3.1	0.0	0.0	0.0
82.5°	50.2	25.1	9.4	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.4	15.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.7	6.3	0.0	0.0	0.0	0.0	3.1	3.1	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	0.0

(END OF REPORT)