

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: P459524

Luminaire Tested: **GALN-SA9C-735-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459524
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-SA9C-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 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: 42753 lumens
Efficiency: N/A
Efficacy: 88.9 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

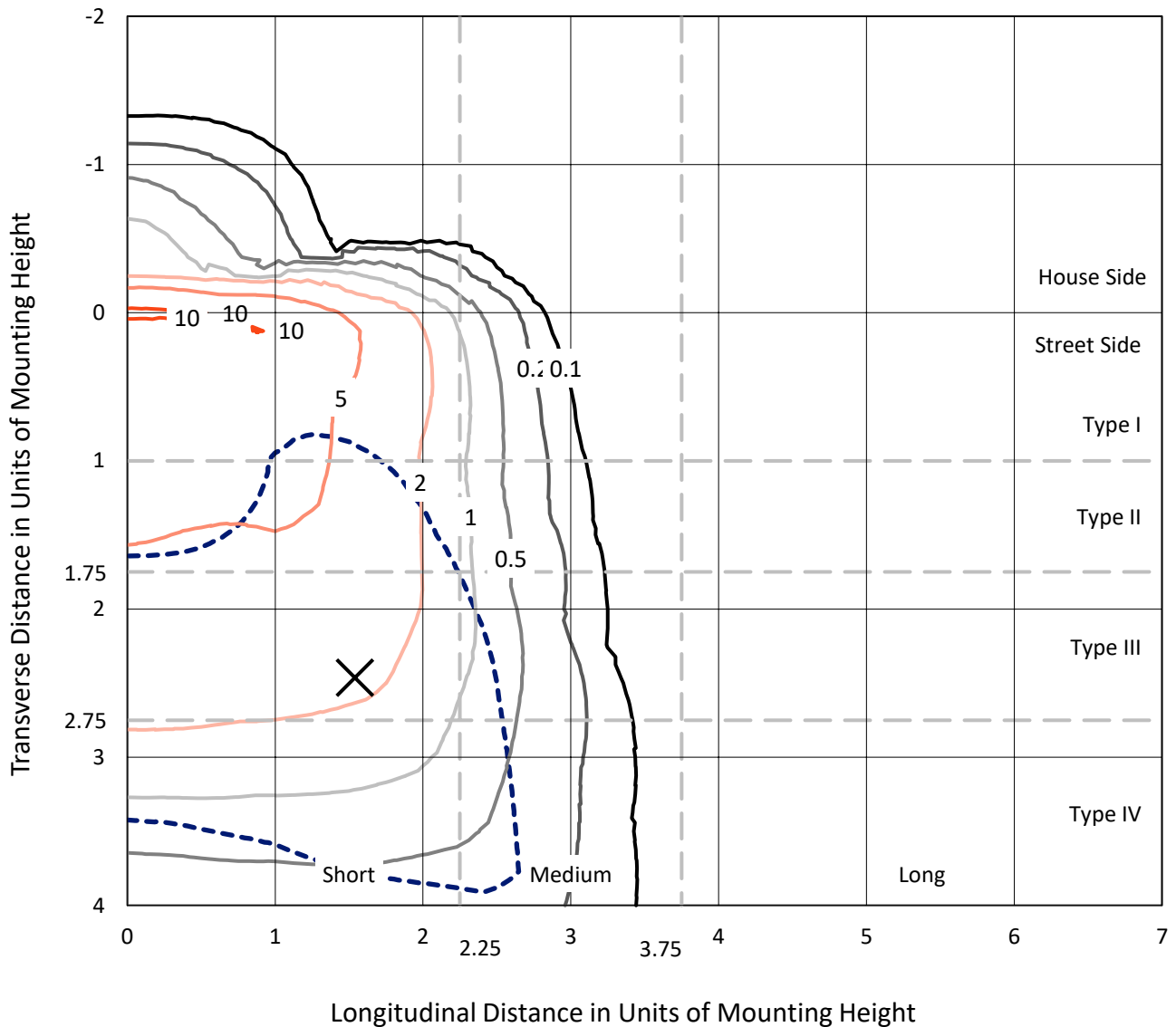
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

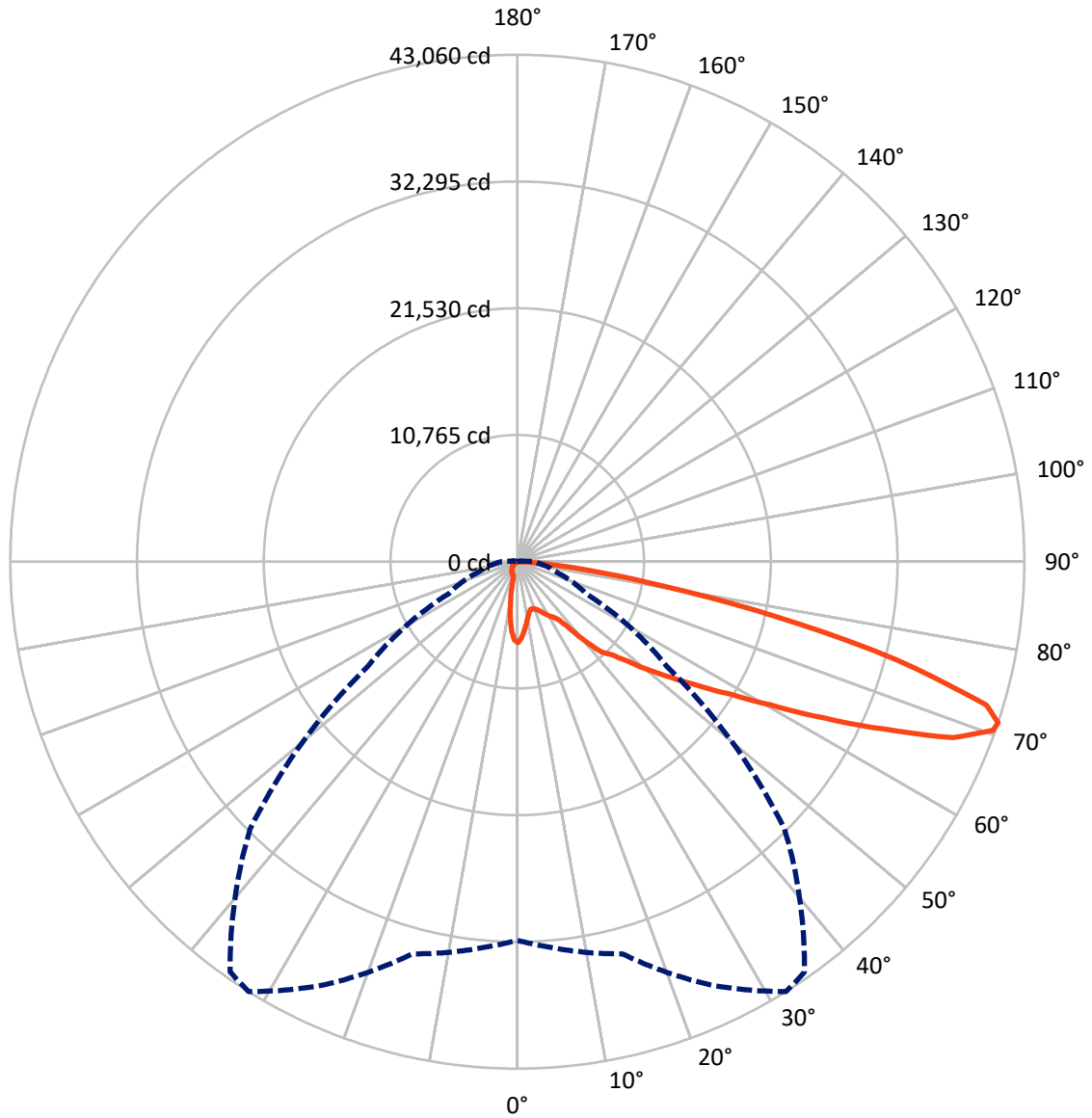
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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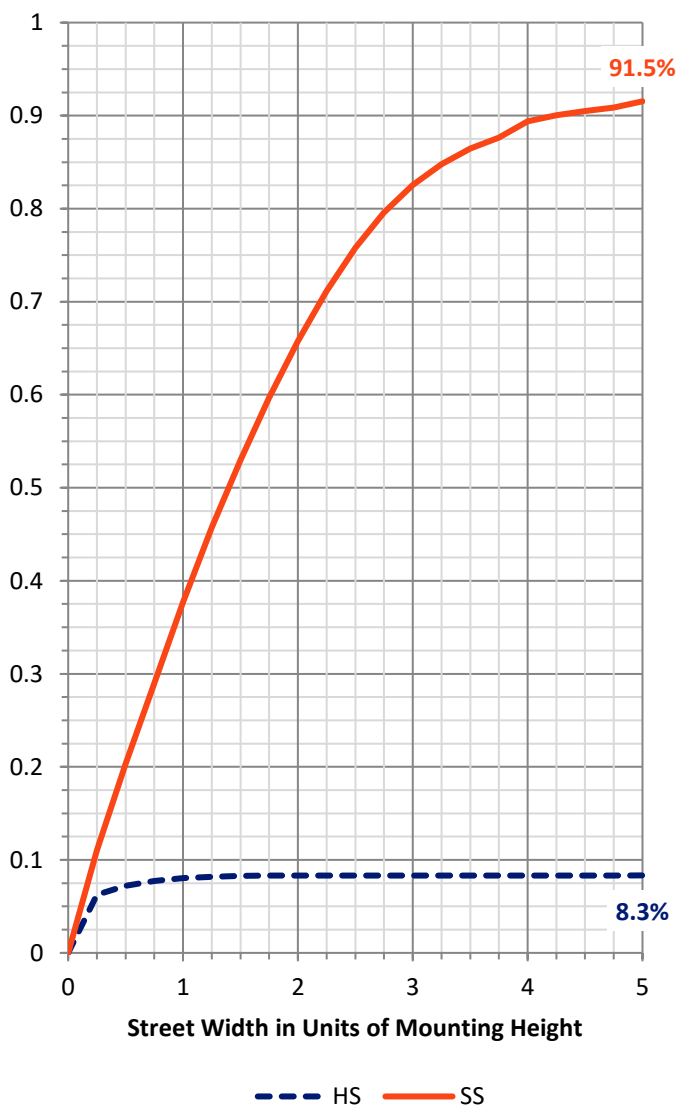
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3581.0	0.0	3581.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	39172.0	0.0	39172.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	42753.0	0.0	42753.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.1	1.3
10°-20°	1213.3	2.8
20°-30°	1887.6	4.4
30°-40°	3144.7	7.4
40°-50°	5849.7	13.7
50°-60°	9391.8	22.0
60°-70°	12632.5	29.5
70°-80°	7495.0	17.5
80°-90°	579.3	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°	42753.0	100.0
0°-180°	42753.0	100.0

Coefficient of Utilization



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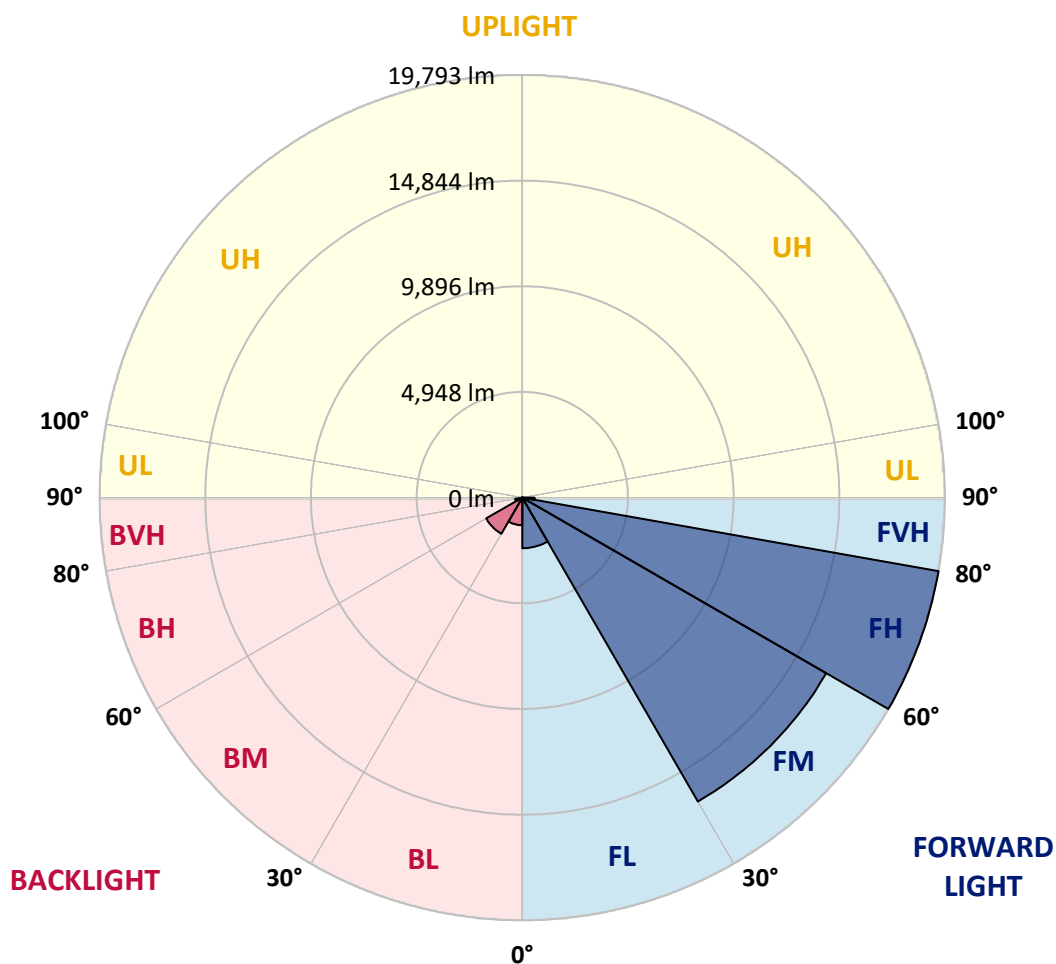
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2369.7	5.5			
FM	(30°-60°)	16432.7	38.4			
FH	(60°-80°)	19792.6	46.3			G5
FVH	(80°-90°)	577.1	1.3			G4/750
BL	(0°-30°)	1290.3	3.0	B3/2500		
BM	(30°-60°)	1953.5	4.6	B2/2500		
BH	(60°-80°)	334.9	0.8	B1/500		G1/500
BVH	(80°-90°)	2.3	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°	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4
2.5°	6376.5	6442.2	6432.3	6455.3	6511.1	6534.0	6596.4	6665.3	6760.5	6826.1	6868.8
5°	5710.3	5759.5	5766.1	5881.0	5936.8	5999.1	6182.9	6383.1	6606.2	6783.5	6901.6
7.5°	4998.2	5024.4	5076.9	5227.9	5369.0	5431.4	5710.3	6058.2	6409.3	6740.8	6954.1
10°	4410.7	4440.3	4535.4	4696.2	4827.5	4909.6	5296.8	5733.3	6225.6	6717.8	7029.6
12.5°	4076.0	4092.4	4128.5	4272.9	4440.3	4528.9	4945.7	5444.5	6077.9	6727.7	7157.6
15°	4053.0	4046.4	4003.8	4062.9	4213.8	4305.7	4712.7	5247.6	5946.6	6760.5	7308.5
17.5°	4174.4	4158.0	4056.3	4056.3	4181.0	4256.5	4614.2	5142.6	5881.0	6836.0	7521.9
20°	4361.5	4335.2	4167.9	4154.7	4276.2	4354.9	4673.3	5149.1	5894.1	6977.1	7807.4
22.5°	4597.8	4568.3	4315.6	4322.1	4453.4	4532.2	4843.9	5267.3	5976.1	7151.0	8112.6
25°	4906.3	4873.5	4574.8	4561.7	4699.5	4768.4	5096.6	5477.3	6091.0	7367.6	8513.0
27.5°	5316.5	5247.6	4889.9	4870.2	5017.9	5106.5	5401.8	5759.5	6294.5	7666.3	9051.2
30°	5654.5	5579.0	5237.7	5185.2	5342.8	5411.7	5716.9	6140.2	6694.9	8188.1	9796.1
32.5°	6097.6	5986.0	5585.6	5447.8	5615.1	5703.8	6173.0	6849.1	7288.9	8739.4	10682.2
35°	7095.2	7026.3	6537.3	6054.9	6045.1	6156.6	6845.8	7564.5	7899.3	9599.2	11889.9
37.5°	8522.8	8473.6	7955.1	7308.5	7121.5	7069.0	7663.0	8352.2	8874.0	10780.7	13294.5
40°	10180.1	10065.3	9589.4	9041.3	8798.5	8644.2	8627.8	9523.8	10147.3	12385.5	14758.2
42.5°	11368.1	11158.1	10580.5	10541.1	10488.6	10327.8	9861.8	11236.8	11791.5	14111.7	16323.6
45°	12615.2	12296.9	11437.0	11289.4	11269.7	11259.8	11725.8	13265.0	13583.3	15982.3	17931.7
47.5°	13583.3	13330.6	12625.0	12559.4	12641.5	12864.6	14190.5	15417.8	15352.2	17649.5	19280.5
50°	14873.1	14682.7	13898.4	14023.1	14446.4	14810.7	16970.1	17764.3	16806.0	18962.2	20261.8
52.5°	16395.8	16044.7	15316.1	15654.1	16303.9	16911.1	19920.5	19818.7	17826.7	19950.0	20993.6
55°	17715.1	17465.7	17216.3	17567.4	18538.8	19296.9	22585.3	21357.9	18568.4	20744.2	21315.2
57.5°	19946.7	19887.6	19631.7	19989.4	21167.5	21955.2	24971.1	22552.5	19044.2	21157.7	20937.8
60°	23248.2	23153.0	22677.2	23133.3	24669.2	25906.5	27169.9	23625.6	19152.5	20996.9	19851.5
62.5°	27219.2	26894.3	26487.3	27160.1	29267.0	29811.8	29240.7	24262.3	18748.9	19717.0	17232.7
65°	30927.6	30592.8	30602.7	32020.4	34314.4	34685.2	31656.1	24167.1	17567.4	16510.7	12710.4
67.5°	33766.3	33710.5	34110.9	36877.5	39877.0	39621.1	33815.6	22742.8	14065.8	10701.9	6753.9
70°	33910.7	34019.0	35167.7	39837.6	42883.2	42476.2	33631.8	18486.3	8768.9	4922.7	2661.5
71°	32164.8	32893.4	34481.8	39745.8	43060.4	42532.0	32082.8	15483.5	6432.3	3432.8	1919.8
72.5°	27409.5	27793.5	31226.2	37405.8	41659.0	40530.1	28154.5	10852.9	4118.6	2100.3	1102.7
75°	15096.2	16041.4	20911.6	29345.8	33320.0	32328.9	18348.5	5155.7	2054.4	1148.6	456.2
77.5°	7187.1	7003.3	10203.1	17452.6	22591.8	22539.3	9244.8	2290.7	1197.9	777.8	229.7
80°	2054.4	2310.4	3905.3	8296.4	12543.0	12680.8	3550.9	1106.0	830.3	607.1	118.1
82.5°	620.3	633.4	1434.1	3669.0	6238.7	5881.0	1332.4	564.5	597.3	482.4	68.9
85°	108.3	134.6	423.4	1293.0	2379.3	1805.0	334.7	269.1	393.8	318.3	39.4
87.5°	6.6	9.8	141.1	147.7	210.0	121.4	59.1	39.4	85.3	85.3	23.0
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°	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4
2.5°	6898.3	6918.0	6904.9	6875.4	6826.1	6767.1	6688.3	6622.7	6566.9	6537.3	6573.4
5°	6941.0	6967.2	6901.6	6753.9	6530.8	6287.9	6012.2	5798.9	5631.6	5579.0	5559.4
7.5°	7006.6	7023.0	6845.8	6517.6	6045.1	5470.7	4968.6	4545.3	4217.1	4118.6	3974.2
10°	7091.9	7082.1	6747.4	6136.9	5306.7	4443.5	3665.8	3088.2	2651.7	2494.2	2481.0
12.5°	7223.2	7170.7	6622.7	5618.4	4427.1	3298.2	2336.6	1828.0	1552.3	1460.4	1440.7
15°	7387.3	7262.6	6425.7	5011.3	3390.1	2129.9	1440.7	1286.5	1250.4	1243.8	1237.2
17.5°	7580.9	7384.0	6166.5	4266.3	2382.6	1381.6	1204.4	1201.1	1204.4	1197.9	1194.6
20°	7843.5	7512.0	5858.0	3383.5	1575.3	1165.0	1148.6	1148.6	1151.9	1148.6	1148.6
22.5°	8122.4	7663.0	5477.3	2582.8	1188.0	1106.0	1102.7	1109.2	1115.8	1112.5	1112.5
25°	8467.0	7859.9	4975.2	1768.9	1063.3	1056.7	1060.0	1073.1	1086.3	1089.6	1086.3
27.5°	8965.9	8102.7	4437.0	1217.5	974.7	981.3	1014.1	1046.9	1066.6	1069.9	1069.9
30°	9527.0	8371.8	3734.7	987.8	902.5	902.5	941.9	1004.2	1046.9	1053.5	1056.7
32.5°	10249.0	8683.6	2956.9	889.4	833.6	827.0	863.1	938.6	1017.4	1040.3	1040.3
35°	11141.7	9051.2	2198.8	827.0	784.3	767.9	787.6	850.0	951.7	1017.4	1023.9
37.5°	12188.6	9399.0	1608.1	771.2	738.4	715.4	728.6	777.8	859.8	958.3	984.5
40°	13156.7	9707.5	1201.1	725.3	692.5	676.0	685.9	708.9	777.8	869.7	886.1
42.5°	14213.4	9947.1	955.0	676.0	646.5	639.9	639.9	649.8	695.7	748.2	751.5
45°	15266.9	10032.4	800.8	617.0	597.3	603.8	600.6	594.0	613.7	607.1	607.1
47.5°	16018.4	9930.7	662.9	561.2	561.2	571.0	554.6	531.6	521.8	482.4	485.7
50°	16533.7	9559.9	544.8	495.6	521.8	534.9	502.1	466.0	429.9	387.3	377.4
52.5°	16747.0	8900.2	446.3	410.2	462.7	479.1	439.8	397.1	341.3	305.2	295.4
55°	16609.1	8086.3	370.8	334.7	390.5	410.2	370.8	321.6	259.3	219.9	213.3
57.5°	16002.0	7114.9	315.1	265.8	311.8	324.9	298.6	246.1	183.8	144.4	144.4
60°	14951.8	6110.7	256.0	210.0	233.0	252.7	226.4	177.2	124.7	88.6	82.0
62.5°	12822.0	4962.1	206.8	164.1	164.1	180.5	157.5	128.0	78.8	45.9	42.7
65°	9257.9	3403.2	164.1	121.4	118.1	118.1	98.5	85.3	45.9	19.7	13.1
67.5°	5031.0	1919.8	131.3	91.9	82.0	78.8	62.4	49.2	19.7	3.3	0.0
70°	1978.9	738.4	101.7	62.4	52.5	49.2	32.8	23.0	13.1	0.0	0.0
71°	1342.3	508.7	88.6	52.5	42.7	36.1	26.3	19.7	9.8	0.0	0.0
72.5°	767.9	315.1	68.9	39.4	32.8	26.3	19.7	13.1	9.8	0.0	0.0
75°	334.7	160.8	42.7	29.5	23.0	16.4	13.1	9.8	3.3	0.0	0.0
77.5°	170.7	88.6	29.5	23.0	13.1	9.8	6.6	3.3	0.0	0.0	0.0
80°	95.2	45.9	19.7	13.1	9.8	6.6	3.3	3.3	0.0	0.0	0.0
82.5°	52.5	26.3	9.8	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.8	16.4	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.4	6.6	0.0	0.0	0.0	0.0	3.3	3.3	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)