

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: P459304

Luminaire Tested: **GALN-SA7D-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41521 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

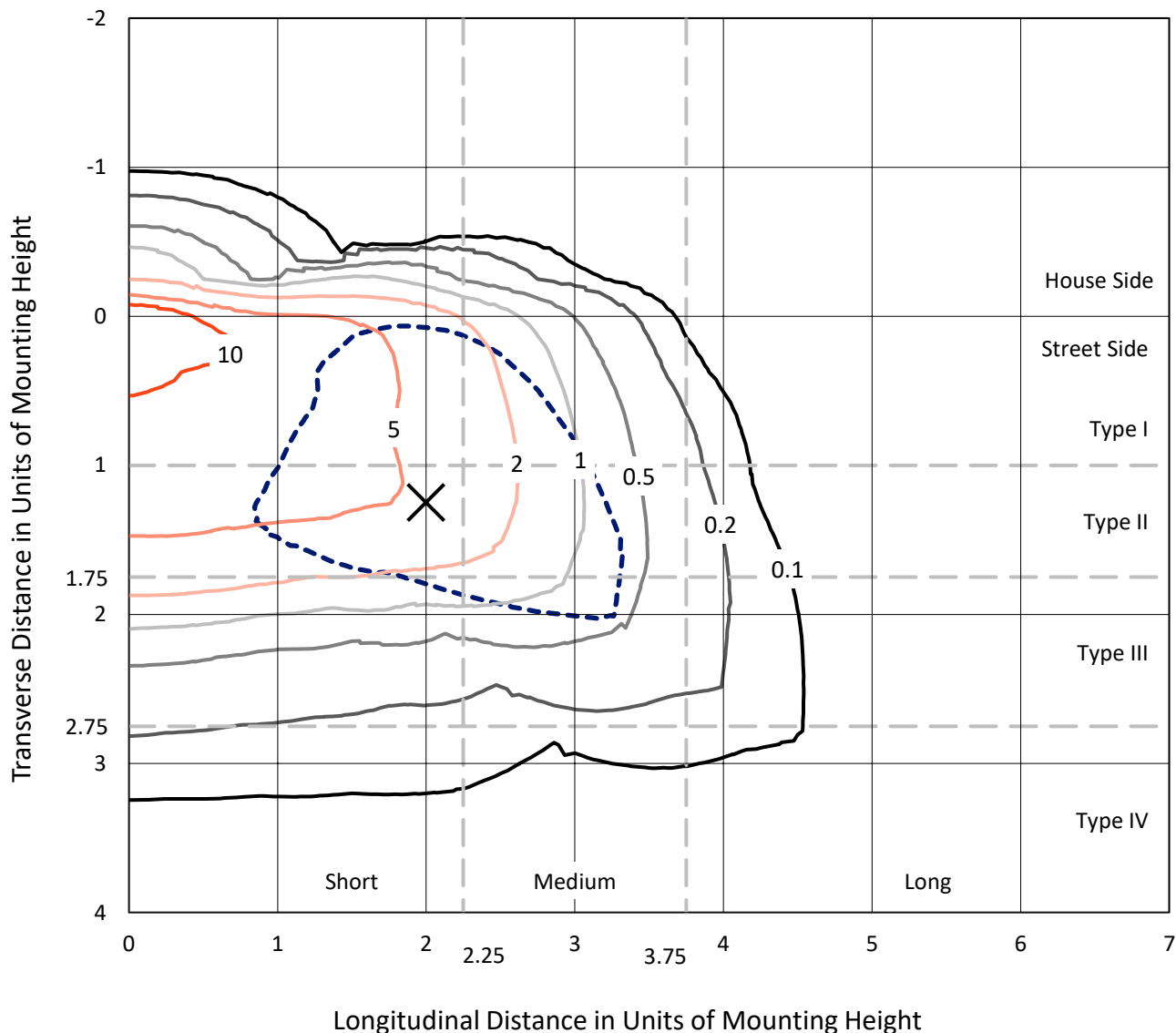
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

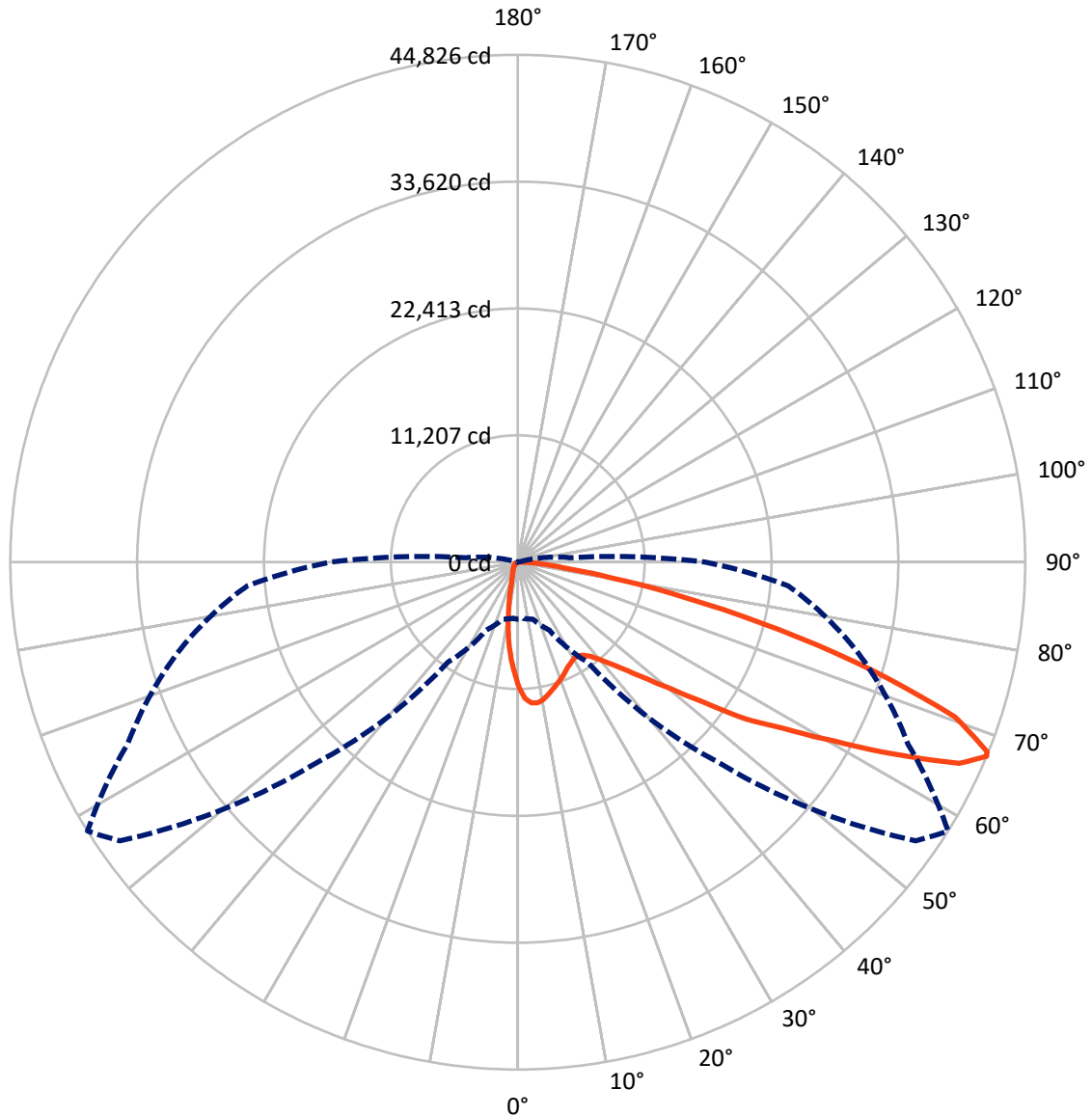
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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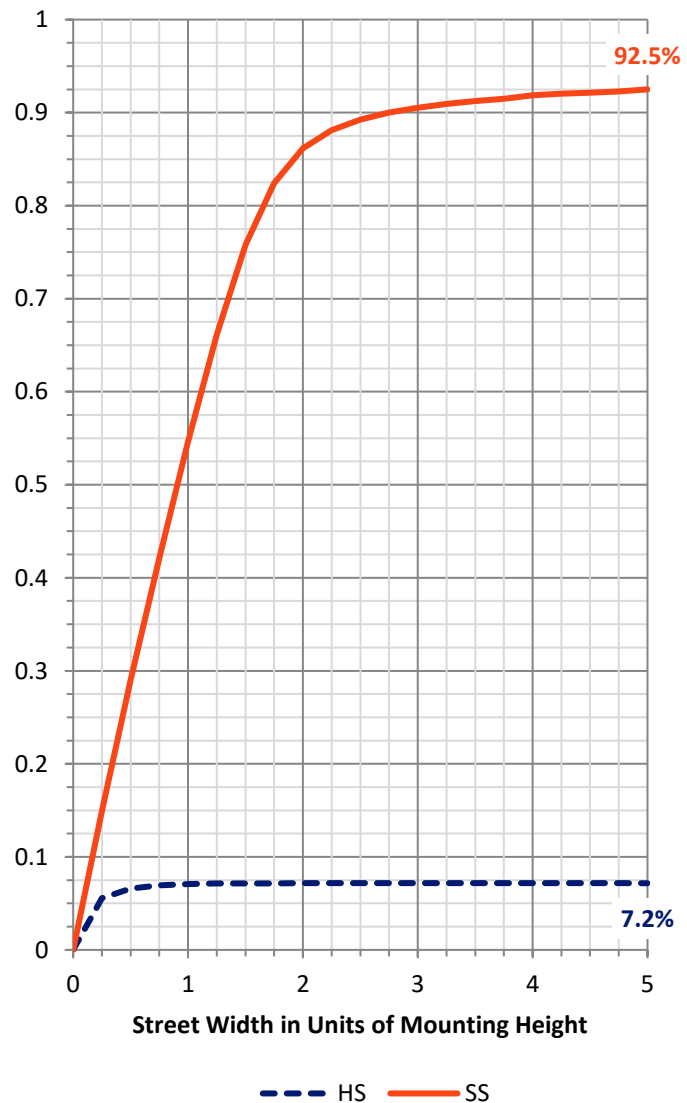
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2996.4	0.0	2996.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	38524.6	0.0	38524.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	41521.0	0.0	41521.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	893.2	2.2
10°-20°	1929.0	4.6
20°-30°	2614.0	6.3
30°-40°	3625.5	8.7
40°-50°	5782.2	13.9
50°-60°	9995.0	24.1
60°-70°	11417.4	27.5
70°-80°	4760.0	11.5
80°-90°	504.7	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°	41521.0	100.0
0°-180°	41521.0	100.0



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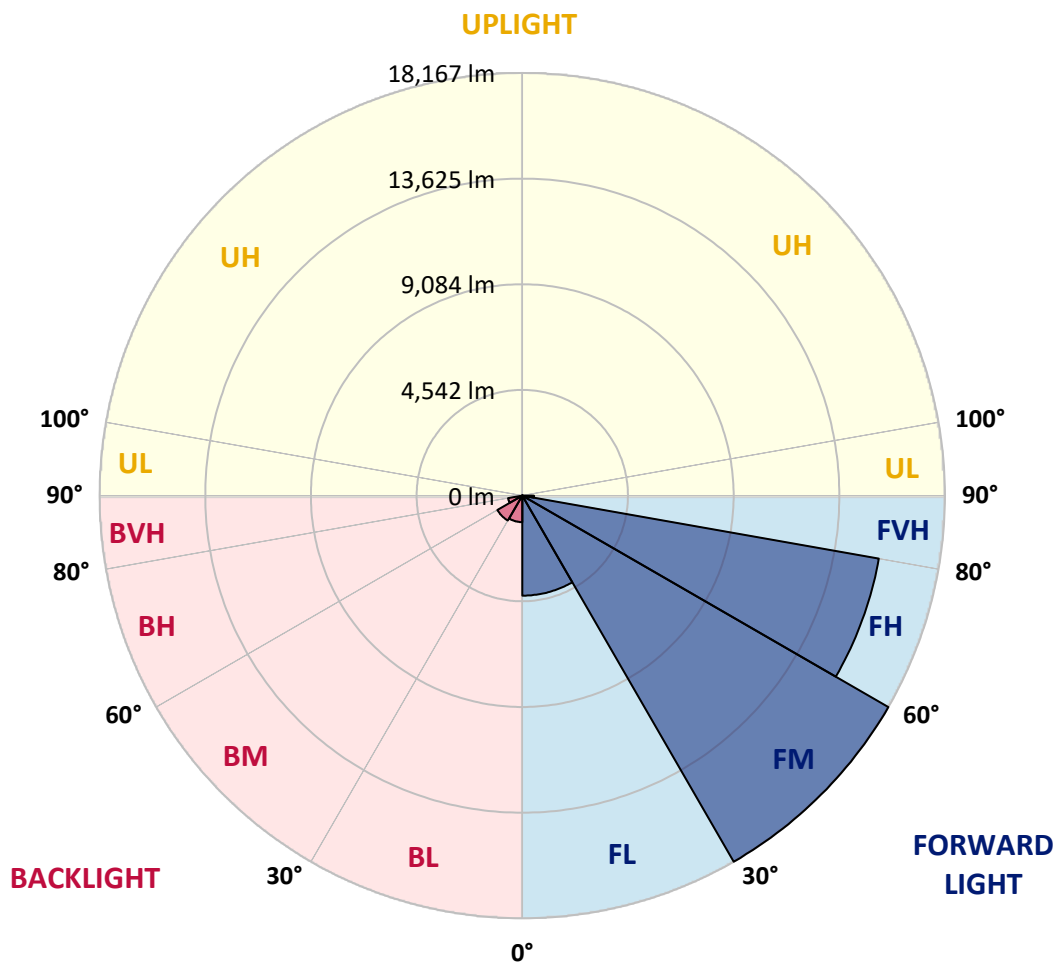
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4298.4	10.4			
FM	(30°-60°)	18167.2	43.8			
FH	(60°-80°)	15558.0	37.5			G5
FVH	(80°-90°)	501.0	1.2			G4/750
BL	(0°-30°)	1137.8	2.7	B3/2500		
BM	(30°-60°)	1235.5	3.0	B2/2500		
BH	(60°-80°)	619.4	1.5	B2/1000		G2/1000
BVH	(80°-90°)	3.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11006.8	11006.8	11006.8	11006.8	11006.8	11006.8	11006.8	11006.8	11006.8	11006.8	11006.8
2.5°	12774.3	12793.7	12721.5	12663.3	12513.4	12352.5	12138.9	12025.1	11830.9	11495.2	11123.4
5°	13073.9	13098.9	13087.8	13073.9	13015.6	12860.3	12588.4	12488.5	12202.7	11656.1	10984.6
7.5°	12408.0	12499.6	12510.7	12618.9	12721.5	12735.4	12632.8	12557.8	12294.2	11653.3	10737.7
10°	11525.7	11586.7	11675.5	11800.4	12047.3	12252.6	12352.5	12341.4	12188.8	11567.3	10449.1
12.5°	10635.0	10668.3	10804.3	11017.9	11320.4	11670.0	11936.3	11989.0	11991.8	11464.6	10207.8
15°	9869.3	9855.4	9960.8	10207.8	10632.3	11070.7	11547.9	11631.1	11764.3	11364.8	9983.0
17.5°	9214.4	9286.6	9303.2	9575.1	9966.4	10535.2	11142.8	11289.8	11556.2	11278.7	9797.1
20°	8809.4	8848.2	8884.3	9036.9	9389.2	9988.6	10762.7	10965.2	11362.0	11201.1	9589.0
22.5°	8690.0	8715.0	8684.5	8731.7	8981.4	9514.1	10349.3	10618.4	11176.1	11128.9	9419.8
25°	8781.6	8806.6	8734.4	8678.9	8765.0	9128.4	9949.7	10277.1	11026.3	11115.0	9292.1
27.5°	9003.6	9050.7	8950.9	8851.0	8801.0	8920.3	9636.2	10016.3	10923.6	11181.6	9233.9
30°	9350.4	9378.1	9303.2	9181.1	9067.4	8948.1	9472.5	9836.0	10895.9	11337.0	9228.3
32.5°	9727.7	9786.0	9744.4	9663.9	9516.9	9233.9	9519.7	9841.5	10962.4	11561.8	9297.7
35°	10193.9	10260.5	10299.3	10282.7	10094.0	9741.6	9819.3	10091.2	11140.0	11975.2	9486.4
37.5°	10651.7	10710.0	10929.1	11004.1	10837.6	10504.6	10402.0	10582.3	11531.2	12516.2	9827.6
40°	11176.1	11253.8	11561.8	11847.5	11767.1	11417.5	11228.8	11378.6	12130.5	13332.0	10474.1
42.5°	11678.3	11817.0	12285.9	12790.9	12865.8	12474.6	12349.7	12399.7	13018.4	14505.6	11375.9
45°	12391.4	12521.8	13126.6	13812.0	14164.3	13859.1	13731.5	13723.2	14236.5	16156.5	12838.1
47.5°	13420.7	13537.3	14250.3	14927.3	15554.4	15596.0	15354.6	15437.9	15768.0	18087.6	14630.5
50°	14683.2	14957.9	15426.8	16131.5	16969.4	17646.5	17721.4	17610.4	17893.4	20323.9	16783.6
52.5°	16517.2	16622.6	17052.7	17632.6	18614.8	19763.5	20654.1	20501.5	20412.7	22454.8	18958.8
55°	17885.1	18026.6	18695.3	19491.6	20931.6	22446.5	24377.6	24430.3	23309.4	24502.5	21087.0
57.5°	17471.7	17688.1	18700.8	20301.7	23467.6	26236.6	27673.9	27709.9	25989.7	26491.9	23489.8
60°	15349.1	15451.7	16902.9	19039.3	23684.0	30343.0	32349.1	32057.7	28717.1	28717.1	25612.3
62.5°	10884.8	11045.7	12222.1	15365.7	21389.4	31769.2	37948.2	37346.1	32473.9	30845.2	26877.5
65°	6955.9	6800.5	7580.2	9700.0	15934.5	29663.2	42823.2	42859.2	36008.8	31697.0	26186.7
67°	5038.7	4977.6	5202.4	6631.3	10804.3	24935.3	42925.8	44826.4	38039.8	31158.8	23978.1
67.5°	4608.6	4655.8	4819.5	5982.0	9816.5	22690.7	42459.7	44709.9	38497.6	30834.1	23179.0
70°	3493.2	3412.8	3590.3	4231.3	5884.9	14314.2	36524.8	41005.8	37928.8	27612.8	18520.5
72.5°	2569.3	2561.0	2807.9	3459.9	4530.9	7624.6	27418.6	32879.0	30986.7	21025.9	11661.6
75°	1734.1	1811.8	2205.8	2891.1	4106.4	4944.3	18692.5	23853.2	21511.5	11939.1	4766.8
77.5°	987.8	993.3	1420.6	2322.3	3687.4	3978.8	11076.2	15196.5	11387.0	3970.5	1415.0
80°	427.3	468.9	704.7	1687.0	3057.6	3523.7	6351.1	8351.5	4605.8	840.7	457.8
82.5°	158.2	185.9	310.8	1037.7	2230.8	2902.2	3837.3	3987.1	1562.1	296.9	285.8
85°	0.0	5.5	113.8	485.6	1162.6	1295.7	2563.7	2364.0	690.9	141.5	185.9
87.5°	0.0	0.0	0.0	49.9	152.6	482.8	796.3	887.9	166.5	49.9	44.4
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°	11006.8	11006.8	11006.8	11006.8	11006.8	11006.8	11006.8	11006.8	11006.8	11006.8	11006.8
2.5°	10923.6	10743.2	10291.0	9838.7	9503.0	9222.8	8801.0	8570.7	8448.7	8268.3	8279.4
5°	10648.9	10282.7	9486.4	8662.3	7996.4	7347.1	6570.3	6256.7	5993.1	5843.3	5743.4
7.5°	10241.0	9700.0	8520.8	7422.1	6398.2	5263.4	4411.6	3842.8	3459.9	3318.4	3182.5
10°	9794.3	9075.7	7541.4	6018.1	4597.5	3426.6	2705.2	2183.6	1997.7	1825.7	1842.3
12.5°	9380.9	8506.9	6642.4	4750.1	3221.3	2178.1	1698.1	1484.4	1423.4	1403.9	1403.9
15°	9042.4	7963.1	5676.8	3570.9	2208.6	1564.9	1359.6	1301.3	1279.1	1273.5	1273.5
17.5°	8681.7	7447.0	4805.6	2638.6	1606.5	1309.6	1240.2	1201.4	1193.1	1187.5	1187.5
20°	8359.9	6928.2	3978.8	1964.4	1298.5	1179.2	1134.8	1109.8	1101.5	1096.0	1098.7
22.5°	8054.7	6467.6	3201.9	1484.4	1143.1	1073.8	1029.4	1004.4	987.8	973.9	976.7
25°	7782.8	6023.7	2574.8	1215.3	1029.4	968.3	923.9	887.9	851.8	835.2	832.4
27.5°	7591.3	5635.2	2006.0	1040.5	926.7	860.1	804.6	760.2	713.1	688.1	682.6
30°	7433.2	5241.2	1587.1	918.4	824.1	760.2	690.9	627.1	577.1	552.1	541.0
32.5°	7330.5	4866.6	1251.3	818.5	738.0	660.4	582.7	518.9	463.4	438.4	432.8
35°	7313.8	4553.1	1023.8	735.3	660.4	577.1	496.7	427.3	380.1	355.1	349.6
37.5°	7433.2	4311.7	857.4	668.7	596.5	505.0	416.2	352.4	310.8	291.3	288.6
40°	7752.2	4159.1	743.6	613.2	538.3	438.4	355.1	299.7	258.0	238.6	238.6
42.5°	8359.9	4164.7	668.7	560.5	480.0	374.6	302.4	249.7	213.6	197.0	191.4
45°	9308.8	4353.3	604.9	507.8	424.5	324.6	258.0	205.3	169.3	155.4	155.4
47.5°	10579.5	4727.9	549.4	455.0	374.6	277.5	219.2	166.5	136.0	122.1	122.1
50°	12241.5	5330.0	502.2	410.6	333.0	238.6	177.6	136.0	105.4	94.3	91.6
52.5°	13978.4	6073.6	446.7	371.8	285.8	202.5	144.3	105.4	80.5	72.1	69.4
55°	15895.7	6800.5	394.0	333.0	233.1	169.3	113.8	83.2	58.3	49.9	49.9
57.5°	17829.6	7513.6	330.2	277.5	183.1	124.9	88.8	61.0	38.8	30.5	30.5
60°	19466.6	7743.9	280.2	224.7	138.7	88.8	63.8	38.8	22.2	13.9	13.9
62.5°	19691.3	6967.0	235.8	172.0	99.9	61.0	33.3	22.2	8.3	5.5	5.5
65°	18470.5	5660.2	197.0	130.4	66.6	30.5	13.9	8.3	2.8	0.0	0.0
67°	16550.5	4589.2	160.9	97.1	47.2	19.4	8.3	2.8	0.0	0.0	0.0
67.5°	16059.4	4375.5	155.4	91.6	41.6	16.6	5.5	2.8	0.0	0.0	0.0
70°	12602.2	3276.8	111.0	55.5	25.0	11.1	0.0	0.0	0.0	0.0	0.0
72.5°	7832.7	1853.4	80.5	33.3	16.6	5.5	0.0	0.0	0.0	0.0	0.0
75°	2960.5	649.3	55.5	22.2	11.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	921.2	246.9	33.3	16.6	5.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	310.8	94.3	22.2	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	191.4	38.8	13.9	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	119.3	16.6	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.2	5.5	2.8	0.0	0.0	0.0	0.0	0.0	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)