

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: P458084

Luminaire Tested: **GALN-SA9C-727-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43624 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

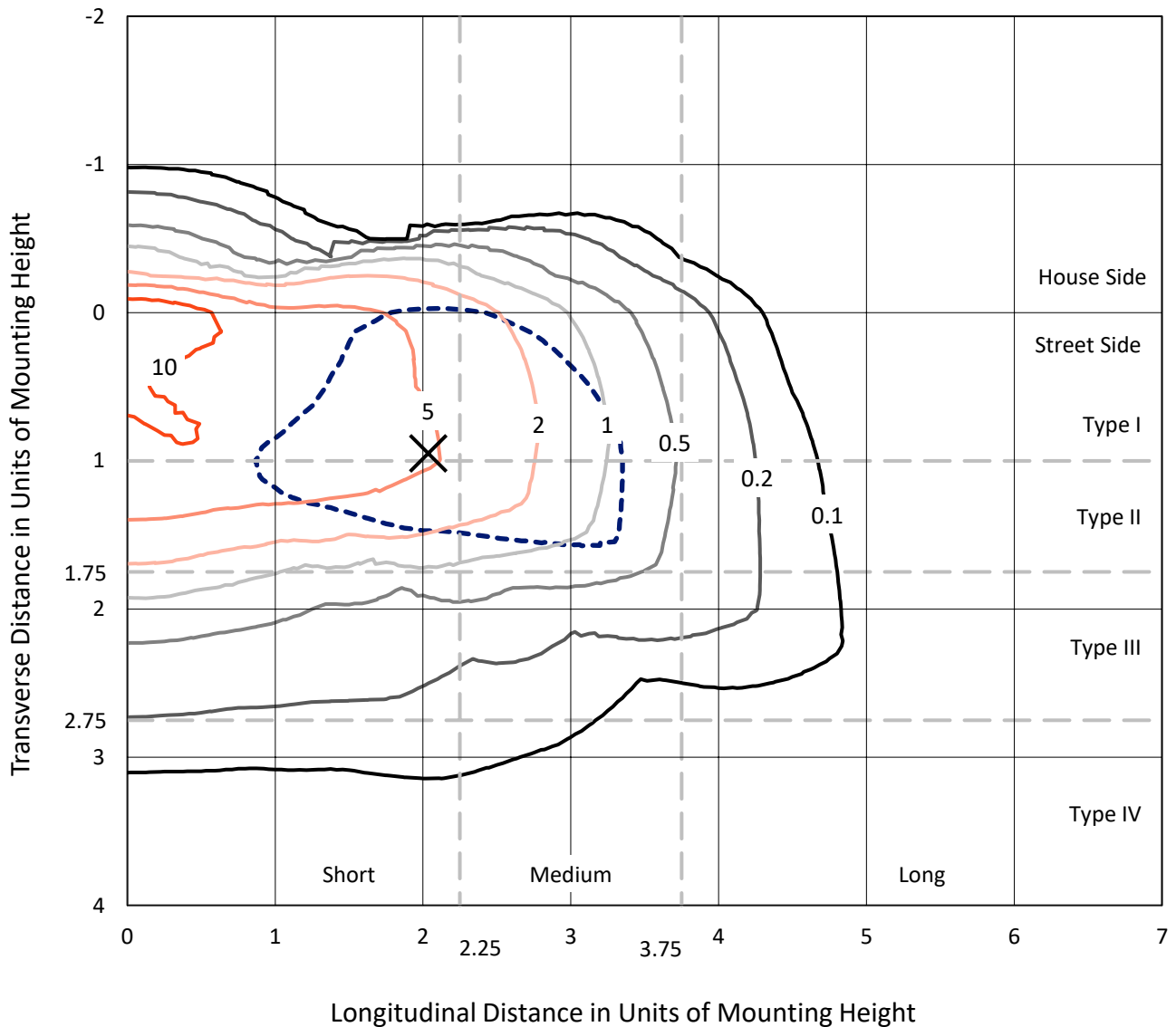
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

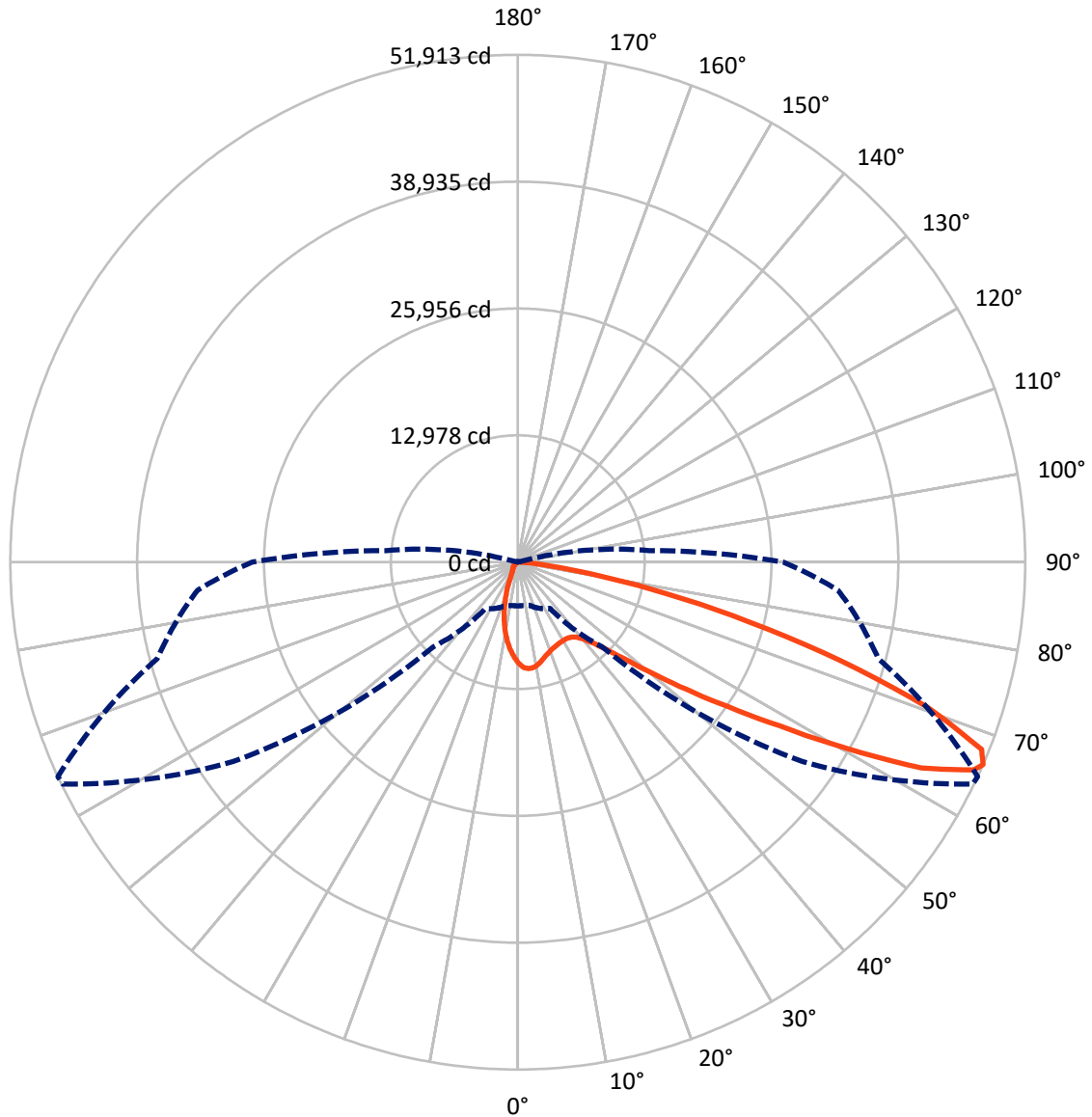
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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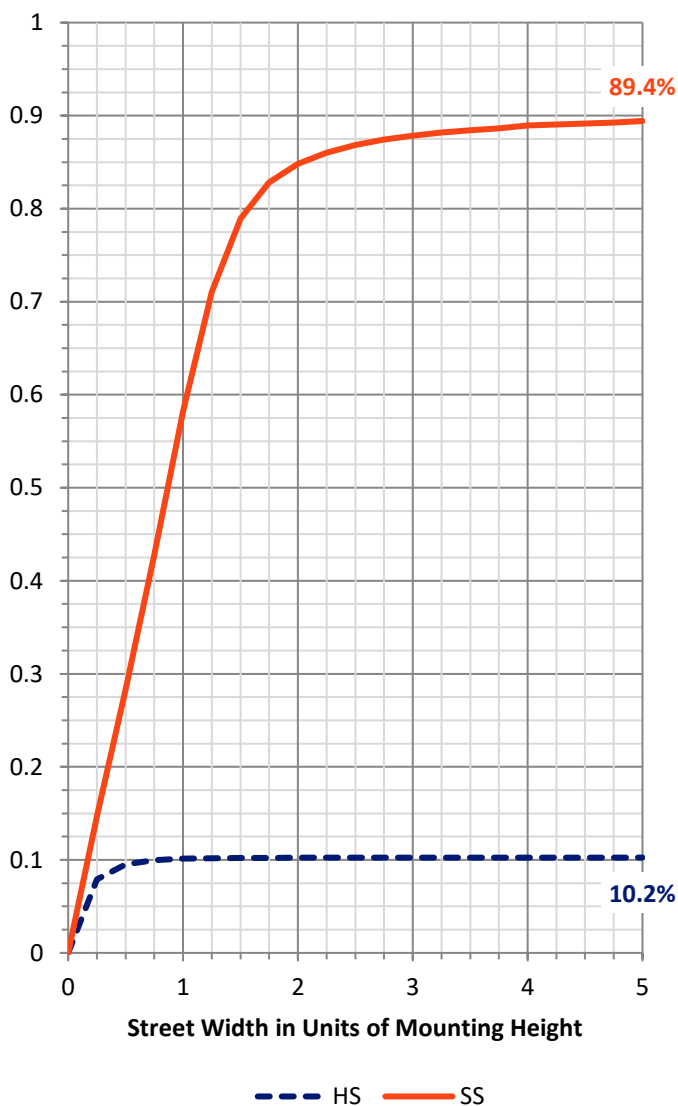
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4511.3	0.0	4511.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	39112.7	0.0	39112.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	43624.0	0.0	43624.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	846.1	1.9
10°-20°	1843.4	4.2
20°-30°	2640.7	6.1
30°-40°	3857.0	8.8
40°-50°	6467.5	14.8
50°-60°	10793.2	24.7
60°-70°	11456.6	26.3
70°-80°	5188.7	11.9
80°-90°	530.9	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°	43624.0	100.0
0°-180°	43624.0	100.0

Coefficient of Utilization



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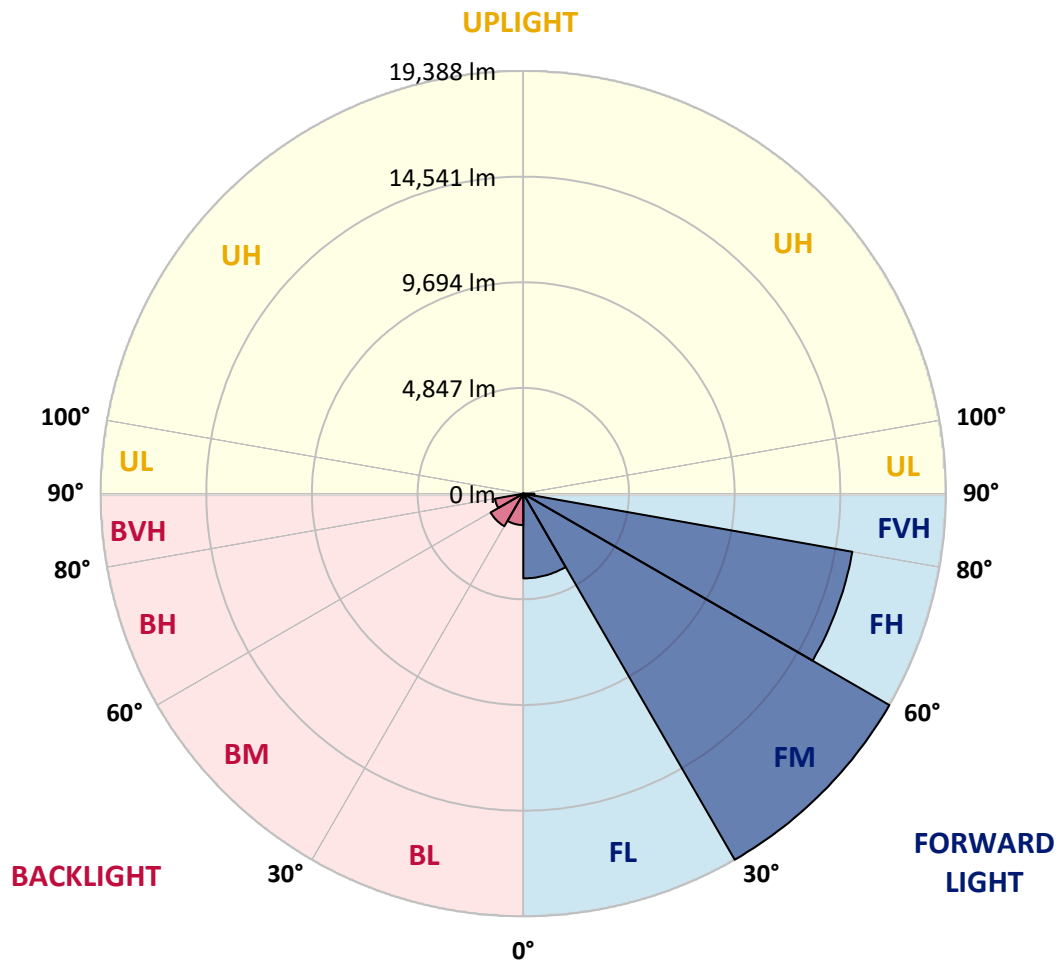
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3887.1	8.9			
FM	(30°-60°)	19387.5	44.4			
FH	(60°-80°)	15324.1	35.1			G5
FVH	(80°-90°)	514.0	1.2			G4/750
BL	(0°-30°)	1443.1	3.3	B3/2500		
BM	(30°-60°)	1730.1	4.0	B2/2500		
BH	(60°-80°)	1321.2	3.0	B3/2500		G3/2500
BVH	(80°-90°)	16.9	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	10344.9	10344.9	10344.9	10344.9	10344.9	10344.9	10344.9	10344.9	10344.9	10344.9	10344.9
2.5°	10901.7	10913.5	10928.2	10948.9	10963.6	10919.4	10857.5	10786.8	10772.1	10621.8	10439.1
5°	10318.3	10336.0	10465.7	10536.4	10695.5	10839.9	10931.2	10943.0	10937.1	10795.7	10504.0
7.5°	9487.5	9537.5	9664.2	9788.0	10085.6	10359.6	10683.7	10910.6	10925.3	10887.0	10524.6
10°	8812.7	8845.1	8910.0	9154.5	9402.0	9820.4	10274.1	10701.4	10736.7	10889.9	10506.9
12.5°	8285.3	8332.5	8412.0	8600.6	8898.2	9293.0	9808.6	10383.2	10456.8	10834.0	10456.8
15°	7917.0	7940.6	8020.1	8205.8	8494.5	8859.9	9381.4	10050.2	10115.0	10760.3	10448.0
17.5°	7743.2	7769.7	7825.7	7973.0	8211.7	8550.5	9060.2	9782.1	9864.6	10713.2	10480.4
20°	7790.3	7813.9	7816.8	7893.4	8055.5	8341.3	8824.5	9531.6	9637.7	10683.7	10533.4
22.5°	8058.4	8061.4	8026.0	7990.7	8046.7	8252.9	8680.1	9372.5	9481.6	10677.8	10595.3
25°	8459.2	8468.0	8409.1	8285.3	8173.4	8279.4	8647.7	9269.4	9366.6	10663.1	10633.6
27.5°	9013.1	9010.1	8992.5	8786.2	8468.0	8397.3	8674.2	9213.4	9295.9	10621.8	10648.3
30°	9788.0	9764.4	9726.1	9493.3	9007.2	8683.1	8786.2	9178.1	9254.7	10562.9	10610.0
32.5°	10551.1	10639.5	10633.6	10412.6	9805.7	9192.8	9019.0	9225.2	9281.2	10524.6	10554.1
35°	11440.9	11438.0	11664.9	11582.4	10872.3	9844.0	9416.7	9381.4	9425.6	10551.1	10527.5
37.5°	12265.9	12342.5	12696.1	12781.5	12133.3	10763.3	9979.5	9717.3	9732.0	10730.8	10592.4
40°	13294.2	13441.5	13968.9	14254.8	13683.1	12127.4	10810.4	10333.1	10336.0	11172.8	10836.9
42.5°	14620.1	14852.9	15344.9	15822.2	15515.8	13742.1	12056.7	11308.3	11302.4	11950.7	11396.7
45°	16231.8	16393.8	16953.7	17710.9	17516.4	15996.1	13871.7	12819.8	12743.2	13226.5	12389.7
47.5°	17622.5	17843.5	18412.1	19275.4	20159.4	18748.0	16040.3	14897.1	14847.0	15256.5	14092.7
50°	18229.5	18423.9	19022.0	20233.0	22375.1	22360.3	19269.5	17928.9	17843.5	18064.5	16726.8
52.5°	17563.6	17746.3	18350.3	19858.8	23418.1	26762.3	23948.5	21732.7	21629.6	21346.8	19873.6
55°	15283.0	15433.3	16326.1	18058.6	23017.4	29696.9	30395.2	26432.3	26031.6	24932.6	23435.8
57.5°	12168.7	12092.1	12646.0	14658.4	20666.1	30681.0	37012.9	32286.8	31570.8	28032.2	26450.0
60°	8432.6	8668.3	8892.3	10218.2	15539.4	28975.0	41129.0	39646.9	38704.1	31081.7	29337.4
62.5°	6199.3	6355.4	6502.7	7115.6	9770.3	23135.2	41856.8	47207.4	46370.7	34319.8	32092.3
65°	4902.8	4914.6	4973.5	5577.6	6437.9	15044.4	38359.4	51470.9	51255.8	37437.1	33209.0
66°	4466.8	4469.7	4561.0	5209.3	5777.9	12251.2	35557.3	51795.0	51912.9	38185.5	32882.0
67.5°	3904.0	3892.2	4024.8	4681.9	5262.3	8833.3	30542.5	50480.9	51179.2	38760.1	31706.4
70°	3026.0	3011.2	3173.3	3927.6	4846.9	5892.8	20300.8	43344.7	44470.2	37584.5	28052.8
72.5°	2015.3	2027.1	2304.1	3099.6	4625.9	5188.6	12212.9	32973.3	34564.4	31037.5	22068.6
75°	1175.6	1196.2	1511.5	2304.1	4016.0	4947.0	6912.3	23512.4	24528.9	21432.2	13748.0
77.5°	615.8	624.6	845.6	1520.3	3079.0	4593.5	4605.2	15020.8	15498.1	10415.6	5442.0
80°	327.1	318.2	453.7	916.3	2118.5	4033.6	3736.1	7952.4	8267.6	3093.7	1376.0
82.5°	123.7	135.5	241.6	601.1	1252.2	2896.3	3217.5	3515.1	3406.1	680.6	577.5
85°	23.6	29.5	103.1	356.5	630.5	1211.0	2371.9	1723.7	1597.0	256.3	332.9
87.5°	2.9	5.9	29.5	85.4	91.3	409.6	701.2	477.3	412.5	94.3	138.5
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°	10344.9	10344.9	10344.9	10344.9	10344.9	10344.9	10344.9	10344.9	10344.9	10344.9	10344.9
2.5°	10350.8	10271.2	10006.0	9743.8	9475.7	9234.1	9069.1	8800.9	8733.2	8635.9	8580.0
5°	10330.1	10144.5	9634.8	9077.9	8559.3	7999.5	7572.3	7159.8	6938.8	6826.8	6785.6
7.5°	10271.2	9976.6	9181.0	8308.9	7478.0	6641.2	5913.5	5359.5	5003.0	4758.5	4593.5
10°	10153.3	9746.7	8653.6	7454.4	6199.3	5094.3	4172.1	3470.9	2928.7	2757.8	2763.7
12.5°	10032.5	9490.4	8064.3	6505.7	4950.0	3556.3	2578.1	2024.2	1764.9	1679.5	1661.8
15°	9920.6	9245.8	7486.8	5586.4	3686.0	2304.1	1661.8	1467.3	1396.6	1381.9	1378.9
17.5°	9861.6	9019.0	6871.0	4534.5	2572.2	1564.5	1331.8	1278.7	1258.1	1243.4	1237.5
20°	9811.6	8821.6	6281.8	3550.4	1759.0	1281.7	1193.3	1143.2	1107.9	1093.1	1084.3
22.5°	9776.2	8618.3	5671.8	2749.0	1346.5	1137.3	1057.8	992.9	942.9	925.2	913.4
25°	9723.2	8394.3	5056.0	2009.5	1134.4	1010.6	919.3	842.7	777.9	745.4	739.5
27.5°	9646.6	8140.9	4381.3	1487.9	1013.6	898.7	786.7	692.4	627.6	592.2	595.2
30°	9522.8	7875.8	3706.6	1181.5	916.3	783.7	662.9	571.6	509.7	483.2	480.3
32.5°	9375.5	7554.6	3087.8	1013.6	827.9	680.6	553.9	474.4	427.2	406.6	403.7
35°	9237.0	7230.5	2457.3	910.4	736.6	586.3	465.5	397.8	362.4	344.7	347.7
37.5°	9160.4	6941.8	1915.2	827.9	662.9	503.8	400.7	341.8	309.4	294.6	291.7
40°	9210.5	6706.0	1523.3	754.3	580.4	433.1	344.7	294.6	262.2	241.6	241.6
42.5°	9446.2	6602.9	1228.7	683.6	503.8	374.2	300.5	253.4	218.0	197.4	200.4
45°	10165.1	6711.9	1028.3	618.7	433.1	324.1	259.3	209.2	176.8	162.1	159.1
47.5°	11358.4	7121.5	889.8	551.0	371.2	277.0	218.0	173.8	141.4	129.6	126.7
50°	13444.5	7967.1	786.7	483.2	315.3	235.7	179.7	138.5	112.0	100.2	100.2
52.5°	16314.3	9811.6	713.0	406.6	265.2	200.4	147.3	112.0	88.4	79.6	76.6
55°	19313.7	11756.2	674.7	341.8	221.0	165.0	117.9	88.4	67.8	58.9	56.0
57.5°	22198.3	13282.4	630.5	277.0	176.8	126.7	91.3	67.8	47.1	41.2	38.3
60°	24965.0	14517.0	536.2	221.0	138.5	91.3	67.8	47.1	32.4	26.5	26.5
62.5°	27440.0	15235.9	421.3	176.8	106.1	64.8	44.2	35.4	23.6	17.7	17.7
65°	27728.7	14301.9	318.2	135.5	76.6	41.2	26.5	26.5	17.7	11.8	11.8
66°	27148.3	13509.3	279.9	123.7	67.8	35.4	23.6	20.6	14.7	8.8	8.8
67.5°	25851.8	12156.9	241.6	106.1	56.0	26.5	17.7	17.7	11.8	5.9	5.9
70°	22336.8	9929.4	191.5	79.6	41.2	20.6	11.8	11.8	8.8	5.9	5.9
72.5°	17024.4	7413.2	156.2	58.9	29.5	14.7	8.8	8.8	8.8	5.9	5.9
75°	10268.3	3992.4	120.8	44.2	26.5	11.8	5.9	8.8	11.8	8.8	5.9
77.5°	3783.2	1358.3	94.3	35.4	20.6	11.8	5.9	5.9	11.8	8.8	8.8
80°	928.1	353.6	67.8	29.5	20.6	11.8	5.9	5.9	11.8	11.8	11.8
82.5°	430.2	150.3	47.1	26.5	20.6	11.8	5.9	5.9	8.8	11.8	11.8
85°	247.5	70.7	38.3	29.5	20.6	11.8	5.9	5.9	8.8	11.8	11.8
87.5°	100.2	35.4	35.4	29.5	23.6	14.7	5.9	5.9	5.9	8.8	8.8
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)