

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: P652500

Luminaire Tested: **GALN-SA7B-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652500
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-SA7B-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA 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: 27572.2 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

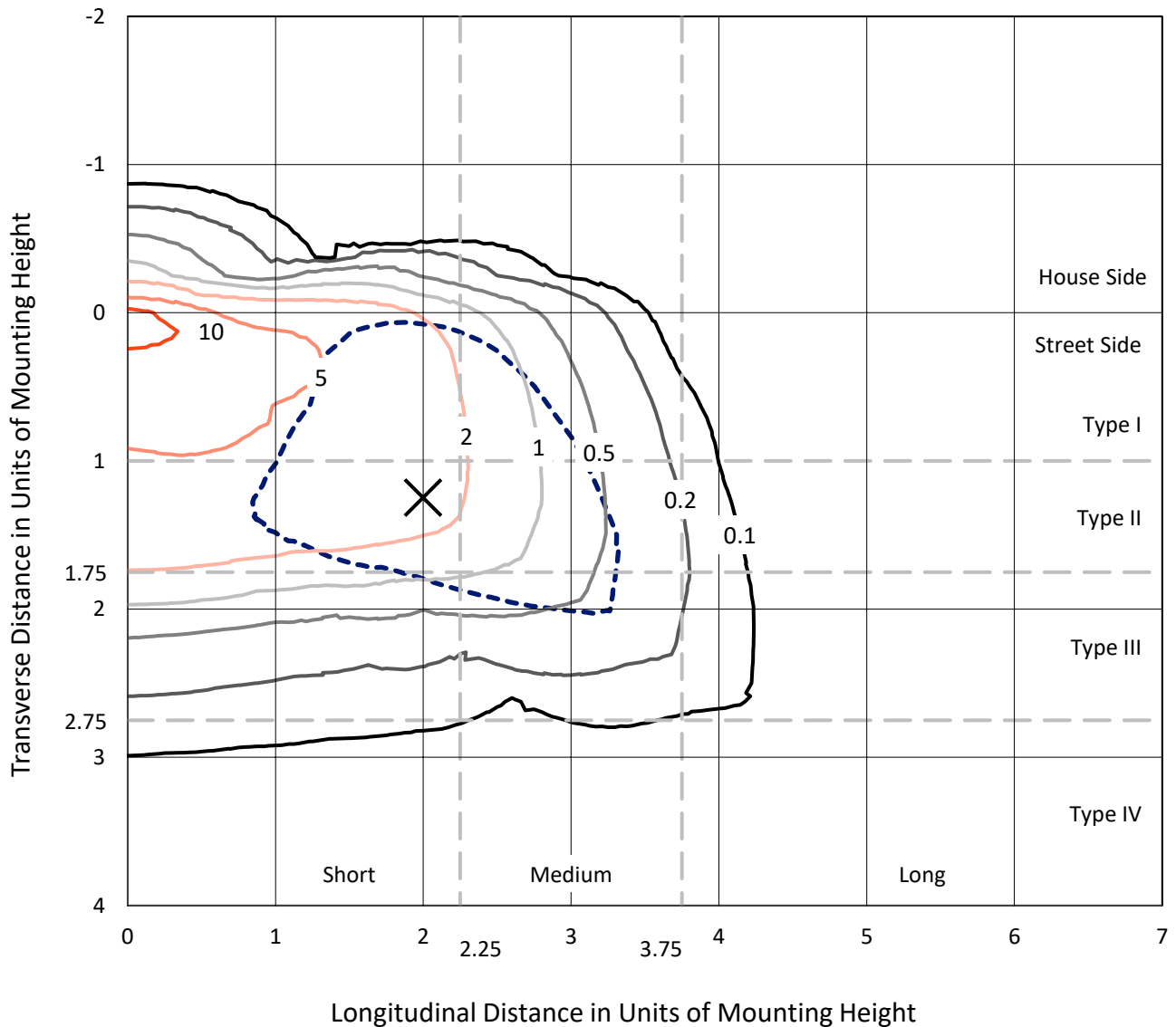
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652500
 CATALOG NUMBER: GALN-SA7B-840-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

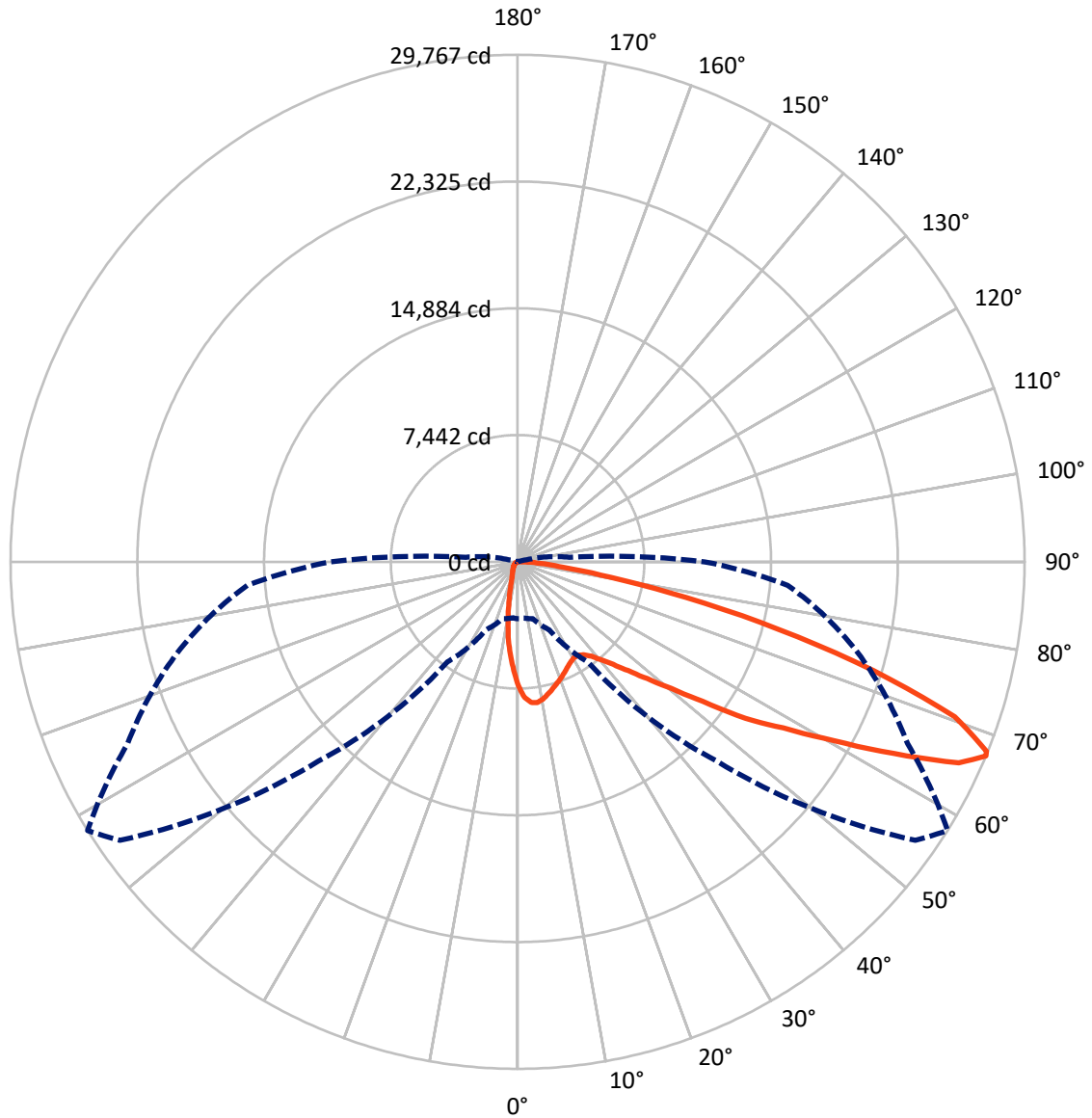
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type III - Short - N/A

REPORT NUMBER: P652500
CATALOG NUMBER: GALN-SA7B-840-U-SL3-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA7B-840-U-SL3-HSS

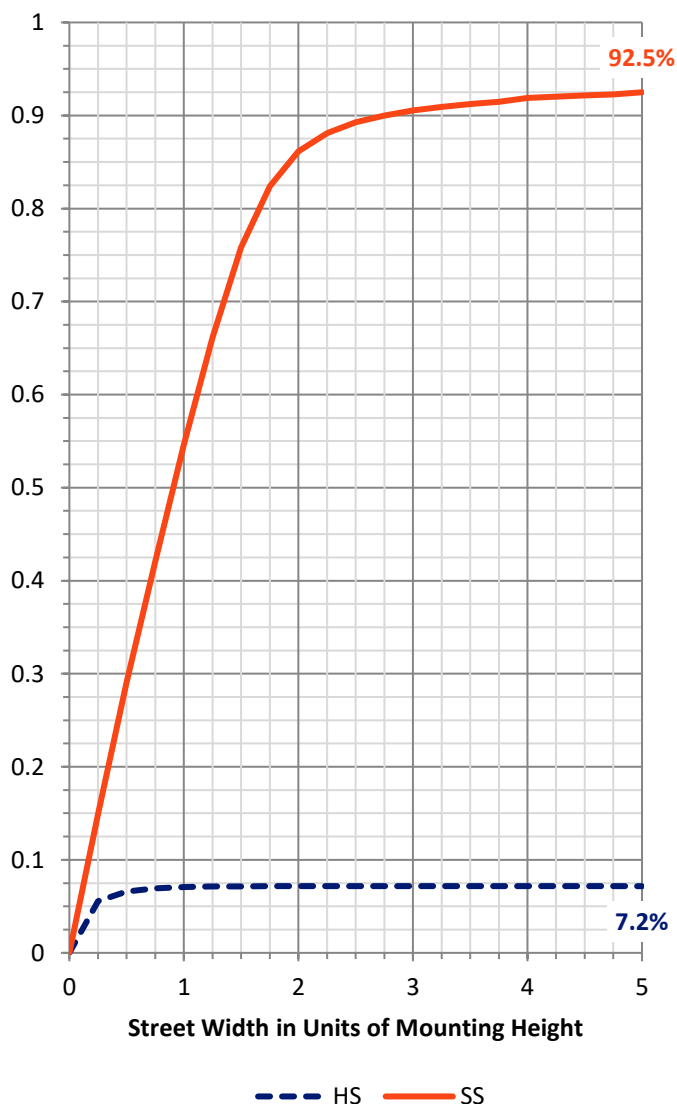
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1989.8	0.0	1989.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	25582.4	0.0	25582.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	27572.2	0.0	27572.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.1	2.2
10°-20°	1281.0	4.6
20°-30°	1735.8	6.3
30°-40°	2407.5	8.7
40°-50°	3839.7	13.9
50°-60°	6637.2	24.1
60°-70°	7581.8	27.5
70°-80°	3160.9	11.5
80°-90°	335.1	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°	27572.2	100.0
0°-180°	27572.2	100.0

Coefficient of Utilization



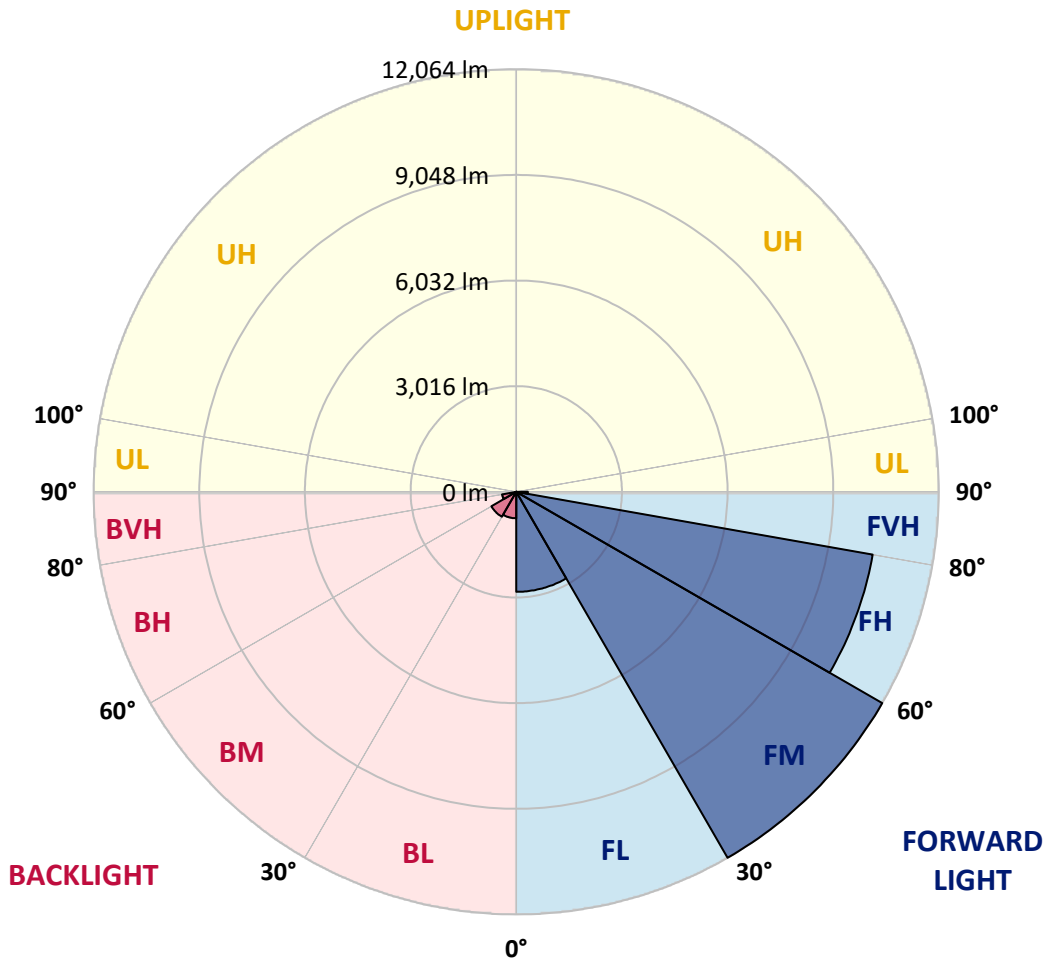
REPORT NUMBER: P652500
 CATALOG NUMBER: GALN-SA7B-840-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2854.4	10.4			
FM (30°-60°)	12064.0	43.8			
FH (60°-80°)	10331.3	37.5			G4/12000
FVH (80°-90°)	332.7	1.2			G3/500
BL (0°-30°)	755.6	2.7	B2/1000		
BM (30°-60°)	820.4	3.0	B1/1000		
BH (60°-80°)	411.4	1.5	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





REPORT NUMBER: P652500

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7309.1	7309.1	7309.1	7309.1	7309.1	7309.1	7309.1	7309.1	7309.1	7309.1	7309.1
2.5°	8482.8	8495.7	8447.8	8409.1	8309.6	8202.8	8060.9	7985.3	7856.4	7633.4	7386.5
5°	8681.8	8698.4	8691.0	8681.8	8643.1	8539.9	8359.4	8293.0	8103.2	7740.3	7294.4
7.5°	8239.6	8300.4	8307.7	8379.6	8447.8	8457.0	8388.8	8339.1	8164.0	7738.5	7130.4
10°	7653.7	7694.2	7753.2	7836.1	8000.1	8136.4	8202.8	8195.4	8094.0	7681.3	6938.8
12.5°	7062.2	7084.3	7174.7	7316.5	7517.4	7749.5	7926.3	7961.4	7963.2	7613.2	6778.5
15°	6553.7	6544.5	6614.5	6778.5	7060.4	7351.5	7668.4	7723.7	7812.1	7546.8	6629.3
17.5°	6118.9	6166.8	6177.8	6358.4	6618.2	6995.9	7399.5	7497.1	7674.0	7489.7	6505.8
20°	5849.9	5875.6	5899.6	6001.0	6235.0	6633.0	7147.0	7281.5	7544.9	7438.1	6367.6
22.5°	5770.7	5787.3	5767.0	5798.3	5964.1	6317.8	6872.5	7051.2	7421.5	7390.2	6255.3
25°	5831.5	5848.1	5800.1	5763.3	5820.4	6061.8	6607.1	6824.5	7322.0	7381.0	6170.5
27.5°	5978.8	6010.2	5943.9	5877.5	5844.4	5923.6	6398.9	6651.4	7253.9	7425.2	6131.8
30°	6209.2	6227.6	6177.8	6096.7	6021.2	5942.0	6290.3	6531.6	7235.5	7528.4	6128.1
32.5°	6459.7	6498.4	6470.8	6417.3	6319.7	6131.8	6321.5	6535.3	7279.6	7677.7	6174.2
35°	6769.3	6813.5	6839.3	6828.2	6702.9	6469.0	6520.5	6701.1	7397.6	7952.2	6299.4
37.5°	7073.3	7112.0	7257.6	7307.3	7196.8	6975.7	6907.5	7027.2	7657.4	8311.4	6526.1
40°	7421.5	7473.1	7677.7	7867.4	7814.0	7581.8	7456.6	7556.0	8055.4	8853.1	6955.4
42.5°	7755.0	7847.1	8158.5	8493.8	8543.6	8283.8	8200.9	8234.1	8645.0	9632.5	7554.2
45°	8228.5	8315.1	8716.8	9171.9	9405.9	9203.2	9118.5	9112.9	9453.8	10728.8	8525.1
47.5°	8912.1	8989.4	9463.0	9912.5	10329.0	10356.6	10196.3	10251.5	10470.9	12011.2	9715.4
50°	9750.4	9932.8	10244.2	10712.2	11268.6	11718.2	11767.9	11694.3	11882.2	13496.2	11145.2
52.5°	10968.3	11038.3	11323.9	11709.0	12361.2	13124.0	13715.4	13614.1	13555.2	14911.2	12589.7
55°	11876.7	11970.6	12414.7	12943.4	13899.7	14905.7	16188.1	16223.1	15478.7	16271.0	14002.9
57.5°	11602.1	11745.8	12418.4	13481.5	15583.7	17422.5	18376.9	18400.9	17258.6	17592.0	15598.4
60°	10192.6	10260.8	11224.4	12643.1	15727.5	20149.4	21481.5	21288.1	19069.7	19069.7	17008.0
62.5°	7228.1	7334.9	8116.2	10203.7	14203.7	21096.4	25199.6	24799.8	21564.4	20482.9	17848.1
65°	4619.1	4515.9	5033.6	6441.3	10581.4	19698.0	28436.9	28460.9	23911.7	21048.5	17389.4
67°	3345.9	3305.4	3454.7	4403.6	7174.7	16558.4	28505.1	29767.2	25260.4	20691.1	15922.7
67.5°	3060.4	3091.7	3200.4	3972.4	6518.7	15067.9	28195.5	29689.8	25564.5	20475.5	15392.2
70°	2319.6	2266.2	2384.2	2809.8	3907.9	9505.4	24254.4	27230.1	25186.8	18336.4	12298.6
72.5°	1706.1	1700.6	1864.6	2297.6	3008.8	5063.2	18207.4	21833.5	20576.8	13962.4	7743.9
75°	1151.6	1203.1	1464.8	1919.8	2726.9	3283.3	12412.8	15839.8	14284.8	7928.2	3165.4
77.5°	655.9	659.6	943.3	1542.1	2448.7	2642.1	7355.2	10091.2	7561.5	2636.6	939.6
80°	283.8	311.3	468.0	1120.2	2030.4	2339.9	4217.4	5545.9	3058.5	558.3	304.0
82.5°	105.0	123.5	206.4	689.1	1481.3	1927.2	2548.1	2647.6	1037.3	197.1	189.8
85°	0.0	3.7	75.5	322.4	772.0	860.4	1702.4	1569.8	458.8	93.9	123.5
87.5°	0.0	0.0	0.0	33.1	101.3	320.6	528.8	589.6	110.5	33.1	29.5
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°	7309.1	7309.1	7309.1	7309.1	7309.1	7309.1	7309.1	7309.1	7309.1	7309.1	7309.1
2.5°	7253.9	7134.1	6833.8	6533.5	6310.5	6124.4	5844.4	5691.5	5610.4	5490.6	5498.0
5°	7071.5	6828.2	6299.4	5752.3	5310.1	4878.9	4363.0	4154.8	3979.8	3880.3	3813.9
7.5°	6800.6	6441.3	5658.2	4928.7	4248.7	3495.2	2929.5	2551.8	2297.6	2203.6	2113.3
10°	6504.0	6026.8	5007.9	3996.3	3053.0	2275.5	1796.5	1450.1	1326.6	1212.4	1223.4
12.5°	6229.5	5649.1	4410.9	3154.3	2139.1	1446.4	1127.6	985.7	945.2	932.3	932.3
15°	6004.7	5288.0	3769.7	2371.3	1466.6	1039.1	902.8	864.1	849.4	845.7	845.7
17.5°	5765.1	4945.2	3191.2	1752.2	1066.8	869.7	823.6	797.8	792.3	788.6	788.6
20°	5551.4	4600.7	2642.1	1304.5	862.3	783.1	753.5	737.0	731.5	727.8	729.7
22.5°	5348.8	4294.8	2126.2	985.7	759.1	713.0	683.6	667.0	655.9	646.7	648.6
25°	5168.2	4000.0	1709.8	807.0	683.6	643.0	613.5	589.6	565.7	554.6	552.7
27.5°	5041.0	3742.1	1332.1	691.0	615.4	571.2	534.3	504.9	473.5	456.9	453.2
30°	4936.0	3480.5	1053.9	609.9	547.2	504.9	458.8	416.4	383.2	366.7	359.3
32.5°	4867.9	3231.7	831.0	543.5	490.1	438.5	386.9	344.6	307.7	291.2	287.5
35°	4856.8	3023.5	679.9	488.3	438.5	383.2	329.8	283.8	252.4	235.8	232.1
37.5°	4936.0	2863.2	569.4	444.0	396.1	335.3	276.4	234.0	206.4	193.4	191.6
40°	5147.9	2761.8	493.8	407.2	357.4	291.2	235.8	199.0	171.3	158.4	158.4
42.5°	5551.4	2765.5	444.0	372.1	318.7	248.8	200.8	165.8	141.9	130.8	127.2
45°	6181.5	2890.9	401.7	337.2	281.9	215.5	171.3	136.3	112.4	103.2	103.2
47.5°	7025.4	3139.6	364.8	302.2	248.8	184.3	145.6	110.5	90.3	81.1	81.1
50°	8129.0	3539.4	333.5	272.7	221.1	158.4	117.9	90.3	70.1	62.7	60.8
52.5°	9282.5	4033.2	296.6	246.9	189.8	134.5	95.8	70.1	53.4	47.9	46.1
55°	10555.6	4515.9	261.6	221.1	154.7	112.4	75.5	55.3	38.7	33.1	33.1
57.5°	11839.8	4989.5	219.2	184.3	121.6	82.9	59.0	40.5	25.8	20.3	20.3
60°	12926.8	5142.4	186.1	149.3	92.1	59.0	42.4	25.8	14.7	9.3	9.3
62.5°	13076.1	4626.5	156.6	114.2	66.4	40.5	22.1	14.7	5.6	3.7	3.7
65°	12265.4	3758.7	130.8	86.6	44.2	20.3	9.3	5.6	1.9	0.0	0.0
67°	10990.4	3047.4	106.9	64.5	31.3	12.9	5.6	1.9	0.0	0.0	0.0
67.5°	10664.3	2905.6	103.2	60.8	27.7	11.0	3.7	1.9	0.0	0.0	0.0
70°	8368.5	2176.0	73.7	36.8	16.6	7.4	0.0	0.0	0.0	0.0	0.0
72.5°	5201.3	1230.8	53.4	22.1	11.0	3.7	0.0	0.0	0.0	0.0	0.0
75°	1965.9	431.2	36.8	14.7	7.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	611.7	164.0	22.1	11.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	206.4	62.7	14.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	127.2	25.8	9.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	79.2	11.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	3.7	1.9	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)