

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: P456147

Luminaire Tested: **GALN-SA7B-827-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20923 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

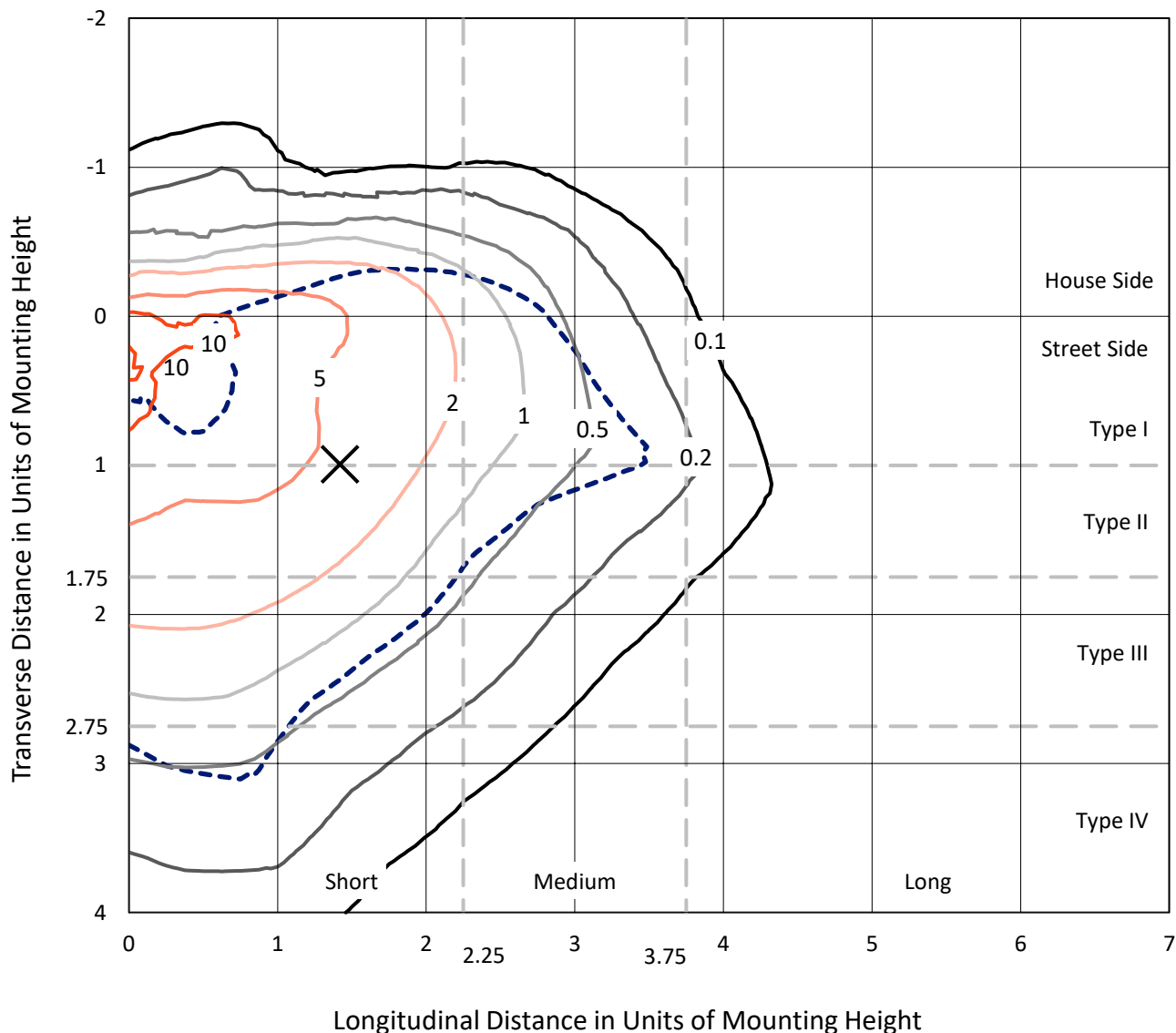
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

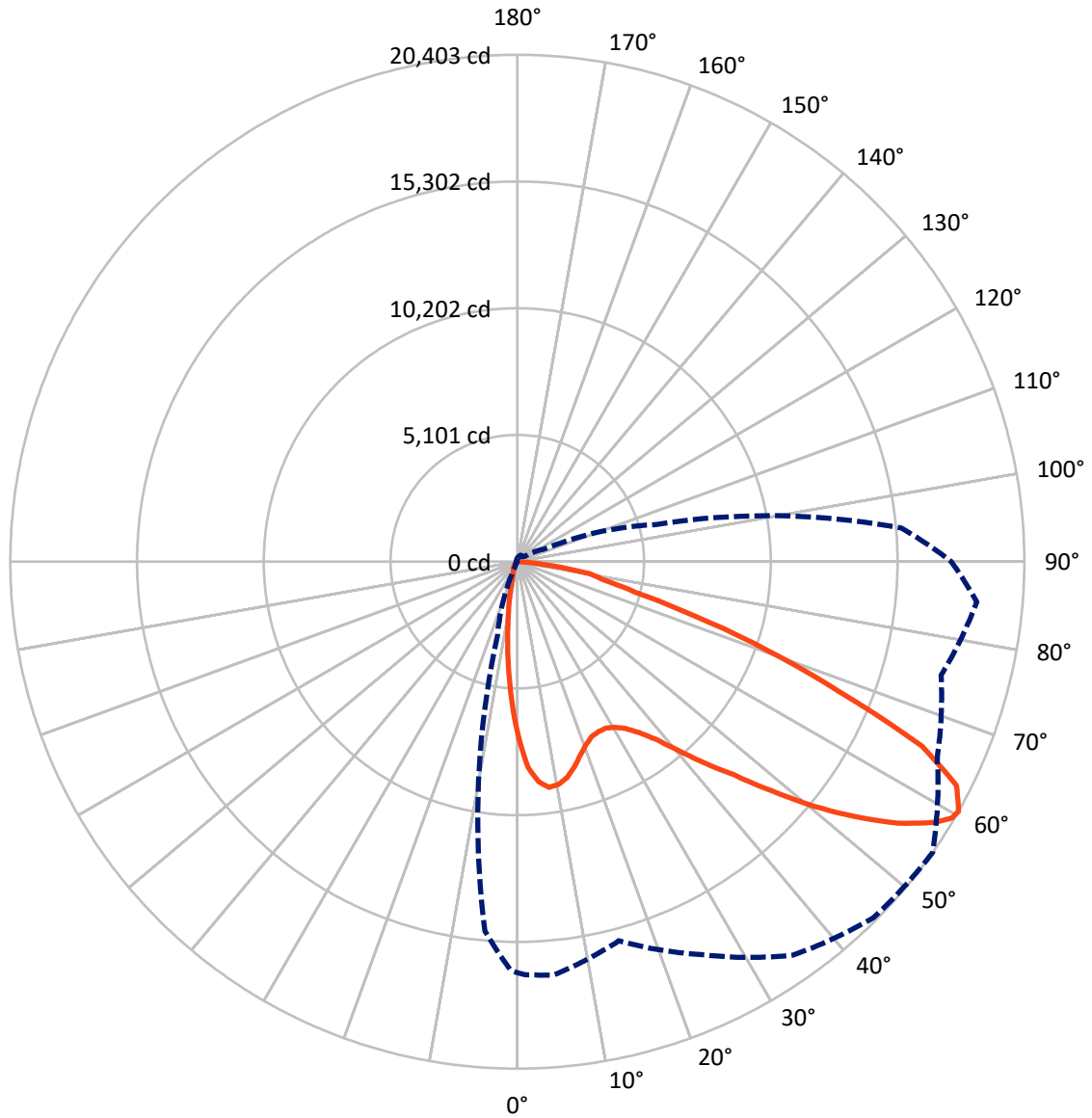
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical



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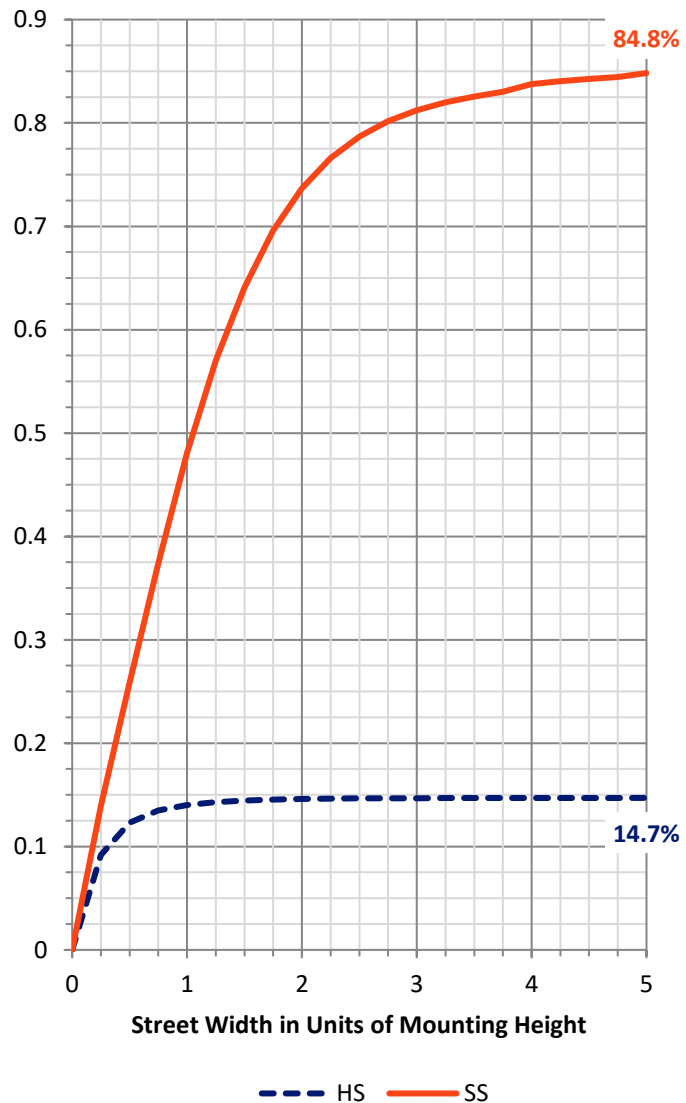
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3105.2	0.0	3105.2
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	17817.8	0.0	17817.8
	% Fixture	85.2	0.0	85.2
Total	Lumens	20923.0	0.0	20923.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.6	2.5
10°-20°	1033.1	4.9
20°-30°	1529.2	7.3
30°-40°	2279.4	10.9
40°-50°	3338.2	16.0
50°-60°	4819.3	23.0
60°-70°	5069.6	24.2
70°-80°	2085.5	10.0
80°-90°	244.3	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°	20923.0	100.0
0°-180°	20923.0	100.0



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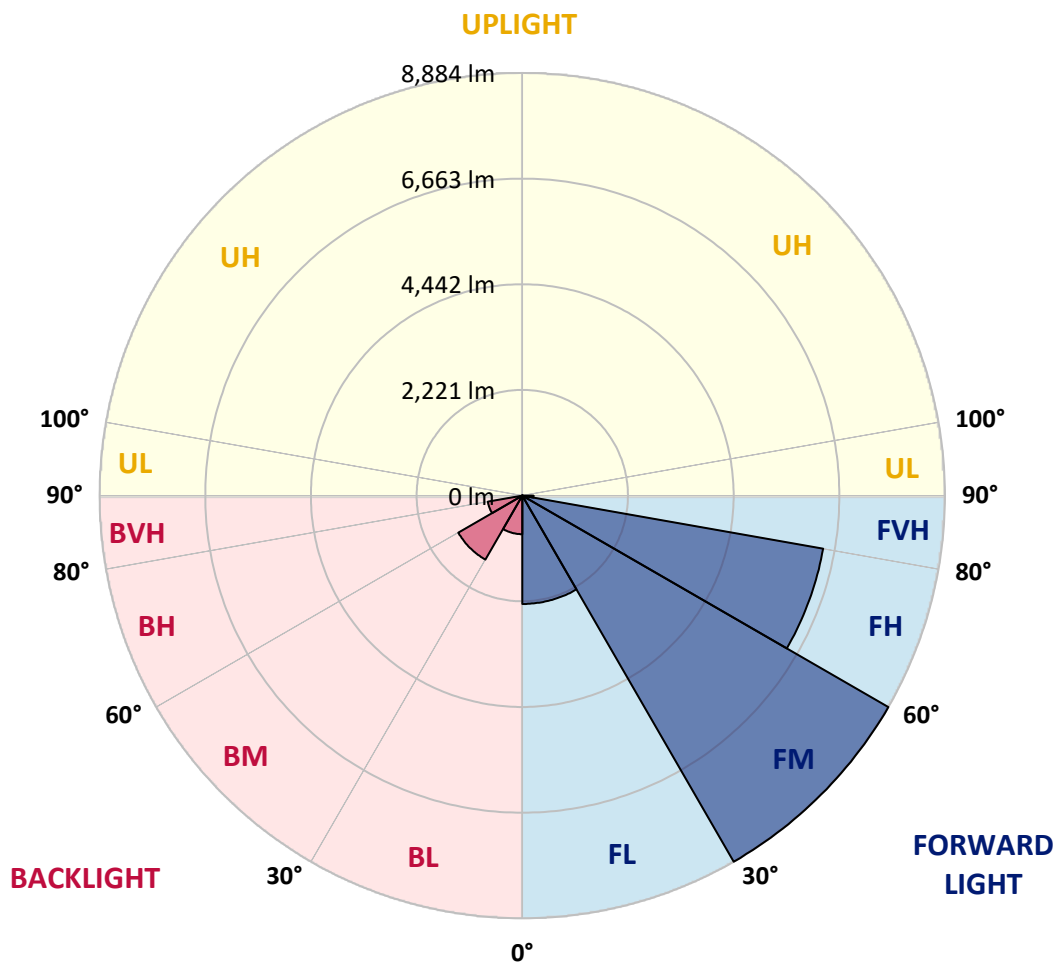
CATALOG NUMBER: GALN-SA7B-827-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2276.7	10.9			
FM	(30°-60°)	8883.9	42.5			
FH	(60°-80°)	6420.1	30.7			G3/7500
FVH	(80°-90°)	237.1	1.1			G3/500
BL	(0°-30°)	810.2	3.9	B2/1000		
BM	(30°-60°)	1552.9	7.4	B2/2500		
BH	(60°-80°)	735.0	3.5	B2/1000		G2/1000
BVH	(80°-90°)	7.2	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7084.5	7084.5	7084.5	7084.5	7084.5	7084.5	7084.5	7084.5	7084.5	7084.5	7084.5
2.5°	7739.9	7727.0	7841.4	8028.2	8216.6	8314.9	8295.5	8287.5	8131.3	8016.9	7777.0
5°	7723.8	7789.9	7994.4	8500.1	8883.4	9068.6	9123.3	8893.0	8588.7	8147.4	7603.0
7.5°	7261.6	7343.8	7677.1	8467.9	9149.1	9551.7	9537.2	9168.4	8540.3	7857.5	7081.2
10°	6688.3	6784.9	7176.3	8136.1	9020.3	9551.7	9580.7	9113.7	8332.6	7456.5	6640.0
12.5°	6284.1	6398.4	6831.6	7826.9	8688.5	9211.9	9245.7	8907.5	8176.4	7301.9	6400.0
15°	6147.2	6255.1	6694.7	7670.7	8335.8	8617.6	8609.6	8574.2	8115.2	7338.9	6412.9
17.5°	6382.3	6470.9	6966.9	7741.5	8005.7	7976.7	8018.5	8189.3	8128.1	7649.7	6818.7
20°	6989.5	7079.6	7612.7	7959.0	7752.8	7569.2	7588.5	7873.6	8247.2	8234.3	7453.3
22.5°	7825.3	7978.3	8461.4	8380.9	7719.0	7316.4	7276.1	7646.5	8450.2	8907.5	8310.0
25°	8883.4	9038.0	9414.8	9054.1	7884.9	7256.8	7219.7	7577.3	8696.6	9564.6	9274.7
27.5°	9772.3	9889.9	10265.2	9709.5	8129.7	7282.6	7221.4	7586.9	8896.3	10123.4	10088.0
30°	10484.2	10571.1	10791.8	10015.5	8340.6	7395.3	7324.4	7728.7	8984.8	10395.6	10746.7
32.5°	11057.5	11204.1	11273.3	10342.5	8643.4	7607.9	7487.1	8000.8	9200.6	10732.2	11437.6
35°	11713.0	11882.1	11793.5	10654.9	9042.8	7939.6	7791.5	8442.1	9527.6	11043.0	12239.6
37.5°	12544.0	12738.8	12392.6	10983.4	9464.7	8438.9	8369.6	9062.1	10023.6	11487.5	13099.6
40°	13404.0	13516.7	12974.0	11382.8	9983.3	9165.2	9231.2	9983.3	10672.6	12020.6	14014.3
42.5°	14075.5	14181.8	13571.5	11717.8	10513.2	10026.8	10302.2	11094.5	11416.6	12566.5	14697.2
45°	14589.3	14679.5	13985.3	12083.4	11228.2	11274.9	11795.1	12239.6	12162.3	12899.9	15223.8
47.5°	14988.7	15066.0	14304.2	12476.3	12299.2	12801.6	13597.2	13785.6	12935.3	13260.6	15700.5
50°	15152.9	15175.5	14404.1	12977.2	13515.1	14747.1	15576.5	15462.1	13821.1	13661.6	16207.8
52.5°	15367.1	15362.3	14689.1	13453.9	14658.5	16486.4	17314.2	17054.9	14822.8	14262.3	16777.9
55°	15929.2	15935.6	15299.5	14130.3	15632.9	17890.7	18776.5	18588.1	15879.3	15276.9	17443.0
57.5°	16612.0	16636.2	16167.5	14921.0	16563.7	18908.6	19868.4	19795.9	17307.8	16405.9	18071.1
59°	16700.6	16748.9	16578.2	15478.3	17116.1	19221.0	20242.0	20312.9	18072.7	17149.9	18410.9
60°	16539.6	16620.1	16697.4	15793.9	17439.8	19333.7	20264.6	20403.1	18647.7	17655.6	18565.5
62.5°	15837.4	15964.6	16352.7	16765.0	17844.0	18982.6	19544.7	19834.6	19359.5	18984.3	18580.0
65°	14917.8	14983.8	15544.3	16937.3	17059.7	17343.2	17517.1	17889.1	18504.3	19496.4	17914.9
67.5°	13410.4	13605.3	14291.3	15937.2	14745.5	14410.5	14367.0	13996.6	15594.2	18275.6	16275.4
70°	11078.4	11165.4	12010.9	13065.8	11128.4	10613.0	10819.2	10680.7	12088.2	15732.7	13099.6
72.5°	8377.7	8574.2	9400.3	10414.9	7572.4	6904.1	7472.6	7421.1	9079.8	12643.8	8999.3
75°	5960.4	6087.6	7140.8	8150.6	5303.3	4493.2	4697.7	4889.4	6338.8	9983.3	5317.8
77.5°	4095.4	4204.9	4995.7	5390.3	3868.4	3705.7	3390.0	3575.2	4153.4	5923.3	2894.0
80°	2470.5	2465.6	2985.8	3082.4	2694.3	3129.1	2625.1	2947.2	2510.7	2534.9	1120.9
82.5°	1604.0	1587.9	1826.3	1990.5	1499.4	1576.7	1058.1	1525.1	1636.2	707.0	354.3
85°	718.3	748.9	877.7	1157.9	657.1	349.5	215.8	468.6	697.3	355.9	0.0
87.5°	74.1	58.0	154.6	281.8	90.2	9.7	32.2	16.1	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7084.5	7084.5	7084.5	7084.5	7084.5	7084.5	7084.5	7084.5	7084.5	7084.5	7084.5
2.5°	7665.9	7572.4	7293.8	7032.9	6809.1	6535.3	6358.1	6079.5	5910.4	5858.9	5867.0
5°	7358.3	7089.3	6559.5	6135.9	5664.0	5395.1	4986.0	4593.1	4380.5	4301.6	4266.1
7.5°	6714.1	6425.8	5786.4	5121.3	4615.6	4143.7	3839.4	3493.1	3256.4	3061.5	3027.7
10°	6235.8	5857.3	5064.9	4349.9	3950.5	3596.2	3291.8	2945.6	2666.9	2444.7	2383.5
12.5°	5949.1	5525.5	4641.4	4042.3	3663.8	3299.9	2903.7	2502.7	2217.6	1977.7	1866.5
15°	5897.6	5406.4	4522.2	3821.7	3354.6	2915.0	2388.3	1955.1	1662.0	1434.9	1365.7
17.5°	6208.4	5620.6	4504.5	3591.4	2950.4	2327.1	1779.6	1420.4	1090.3	963.1	913.1
20°	6762.4	5999.0	4502.9	3324.0	2534.9	1792.5	1249.7	926.0	792.4	731.2	702.2
22.5°	7517.7	6514.4	4588.2	3093.7	2103.3	1322.2	892.2	737.6	660.3	610.4	599.1
25°	8440.5	7277.7	4797.6	2937.5	1773.1	1037.1	736.0	631.3	566.9	544.3	534.7
27.5°	9260.2	8008.9	5027.9	2776.5	1536.4	918.0	682.8	578.2	526.6	508.9	494.4
30°	9967.2	8672.4	5139.0	2563.9	1346.4	840.7	692.5	618.4	550.8	497.6	473.5
32.5°	10556.6	9181.3	5211.5	2370.6	1185.3	687.7	547.6	478.3	447.7	428.4	412.3
35°	11294.2	9732.1	5168.0	2261.1	1103.2	626.5	499.2	412.3	360.7	322.1	306.0
37.5°	12067.3	10282.9	5092.3	2170.9	1066.1	581.4	475.1	391.3	335.0	294.7	273.8
40°	12867.7	10793.4	5003.7	2087.2	1032.3	552.4	460.6	373.6	317.3	273.8	251.2
42.5°	13600.4	11291.0	4968.3	2032.4	977.6	557.2	449.3	365.6	299.5	254.5	235.1
45°	14193.1	11762.9	5016.6	2003.4	918.0	549.2	452.5	355.9	285.1	241.6	222.2
47.5°	14826.0	12429.6	5172.8	1974.4	860.0	510.5	476.7	354.3	278.6	233.5	212.6
50°	15562.0	13283.2	5530.4	1903.6	789.1	468.6	507.3	352.7	270.6	223.9	202.9
52.5°	16542.8	14252.7	5899.2	1779.6	686.1	428.4	484.8	347.9	254.5	212.6	191.6
55°	17423.7	15273.7	6211.6	1633.0	555.6	370.4	436.4	326.9	227.1	193.3	173.9
57.5°	17787.7	15850.3	6201.9	1430.1	444.5	325.3	359.1	299.5	198.1	170.7	154.6
59°	17654.0	15777.8	5994.2	1280.3	405.8	301.2	297.9	296.3	185.2	154.6	141.7
60°	17465.6	15513.7	5770.3	1206.2	381.7	285.1	273.8	293.1	173.9	144.9	132.1
62.5°	16744.1	14418.6	5027.9	1080.6	349.5	241.6	219.0	248.0	154.6	125.6	114.3
65°	15698.9	12735.6	4256.5	1045.2	339.8	199.7	182.0	177.2	132.1	106.3	96.6
67.5°	13660.0	10777.3	3448.0	1021.0	343.0	167.5	159.4	133.7	109.5	88.6	82.1
70°	10936.7	8403.4	2823.2	993.7	346.3	136.9	133.7	106.3	88.6	74.1	67.6
72.5°	6644.8	4981.2	2222.5	863.2	336.6	109.5	119.2	80.5	64.4	53.1	49.9
75°	4108.3	3409.4	1378.6	671.6	222.2	80.5	83.7	49.9	43.5	33.8	33.8
77.5°	2380.3	2153.2	492.8	241.6	98.2	48.3	37.0	25.8	24.2	14.5	14.5
80°	987.2	790.7	170.7	82.1	53.1	22.5	8.1	1.6	0.0	0.0	0.0
82.5°	288.3	256.1	46.7	37.0	16.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7084.5	7084.5	7084.5	7084.5	7084.5	7084.5	7084.5	7084.5	7084.5	7084.5	7084.5
2.5°	5730.1	5676.9	5652.8	5734.9	5659.2	5755.8	5681.7	5714.0	5809.0	5850.8	5958.7
5°	4288.7	4233.9	4208.2	4332.2	4325.7	4386.9	4380.5	4436.9	4485.2	4377.3	4488.4
7.5°	2987.4	2950.4	3011.6	3108.2	3211.3	3177.5	3177.5	3101.8	3127.5	3111.4	3106.6
10°	2272.4	2145.1	2112.9	2109.7	2148.4	2156.4	2112.9	2008.3	2046.9	2058.2	2125.8
12.5°	1787.6	1689.4	1539.6	1472.0	1454.3	1468.8	1325.4	1233.6	1277.1	1251.3	1317.4
15°	1281.9	1201.4	1112.8	1037.1	1016.2	987.2	831.0	721.5	708.6	713.4	724.7
17.5°	914.7	860.0	860.0	779.5	736.0	649.0	570.1	521.8	517.0	521.8	529.8
20°	674.8	645.8	642.6	621.6	573.3	515.4	460.6	450.9	447.7	455.8	459.0
22.5°	581.4	550.8	525.0	523.4	478.3	430.0	404.2	391.3	393.0	396.2	404.2
25°	520.2	488.0	460.6	444.5	412.3	378.5	354.3	347.9	347.9	352.7	354.3
27.5°	476.7	436.4	412.3	389.7	360.7	331.8	310.8	306.0	302.8	306.0	314.0
30°	446.1	405.8	375.2	341.4	318.9	291.5	273.8	267.3	265.7	267.3	273.8
32.5°	381.7	357.5	333.4	302.8	275.4	257.7	238.3	227.1	227.1	230.3	236.7
35°	288.3	275.4	273.8	265.7	243.2	223.9	201.3	190.0	190.0	196.5	199.7
37.5°	254.5	230.3	227.1	223.9	214.2	188.4	167.5	157.8	156.2	161.0	167.5
40°	231.9	204.5	190.0	186.8	188.4	159.4	136.9	127.2	127.2	128.8	135.3
42.5°	214.2	182.0	156.2	153.0	159.4	133.7	111.1	101.5	101.5	101.5	109.5
45°	199.7	162.7	132.1	116.0	125.6	109.5	90.2	80.5	77.3	80.5	83.7
47.5°	190.0	148.2	116.0	93.4	93.4	87.0	72.5	61.2	58.0	59.6	64.4
50°	182.0	135.3	98.2	75.7	67.6	69.3	54.8	46.7	43.5	43.5	48.3
52.5°	169.1	122.4	85.4	64.4	51.5	46.7	40.3	33.8	32.2	33.8	37.0
55°	153.0	111.1	74.1	53.1	40.3	32.2	29.0	24.2	22.5	24.2	29.0
57.5°	135.3	93.4	59.6	41.9	27.4	20.9	19.3	16.1	12.9	14.5	17.7
59°	124.0	83.7	51.5	33.8	20.9	14.5	14.5	11.3	8.1	9.7	14.5
60°	119.2	77.3	43.5	29.0	17.7	11.3	11.3	8.1	4.8	6.4	11.3
62.5°	101.5	64.4	33.8	17.7	8.1	1.6	4.8	1.6	0.0	1.6	4.8
65°	85.4	51.5	22.5	8.1	0.0	0.0	0.0	0.0	0.0	0.0	1.6
67.5°	70.9	38.7	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	56.4	25.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	38.7	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	24.2	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7084.5	7084.5	7084.5	7084.5	7084.5	7084.5	7084.5	7084.5	7084.5	7084.5
2.5°	5965.2	6195.5	6337.2	6604.5	6878.3	7089.3	7353.4	7590.2	7688.4	7739.9
5°	4601.1	4921.6	5193.8	5601.2	5979.7	6440.3	6907.3	7458.1	7669.1	7723.8
7.5°	3229.0	3555.9	3841.0	4312.8	4852.4	5469.2	6168.1	6867.1	7174.7	7261.6
10°	2332.0	2681.4	3029.3	3501.2	4005.2	4673.6	5401.5	6266.3	6620.7	6688.3
12.5°	1472.0	1847.2	2412.5	2995.5	3528.5	4066.4	4828.2	5768.7	6160.1	6284.1
15°	853.6	1133.8	1560.5	2320.7	2998.7	3710.5	4541.5	5581.9	6019.9	6147.2
17.5°	571.7	668.3	961.5	1542.8	2438.3	3382.0	4469.1	5734.9	6219.6	6382.3
20°	481.5	525.0	628.1	940.5	1877.8	3088.9	4488.4	6150.4	6786.5	6989.5
22.5°	423.6	463.8	529.8	676.4	1310.9	2724.9	4580.2	6744.7	7566.0	7825.3
25°	373.6	413.9	471.9	560.4	880.9	2304.6	4781.5	7614.3	8598.3	8883.4
27.5°	331.8	368.8	418.7	494.4	678.0	1835.9	4960.3	8461.4	9540.4	9772.3
30°	293.1	323.7	372.0	430.0	563.7	1415.6	5050.4	9202.2	10226.5	10484.2
32.5°	254.5	283.4	330.1	376.9	463.8	1079.0	4987.6	9746.6	10893.2	11057.5
35°	217.4	248.0	286.7	330.1	401.0	871.3	4673.6	10358.6	11584.1	11713.0
37.5°	186.8	212.6	252.8	286.7	362.4	697.3	4293.5	10909.3	12358.8	12544.0
40°	157.8	183.6	223.9	254.5	333.4	549.2	3950.5	11521.3	13175.3	13404.0
42.5°	128.8	159.4	194.9	244.8	286.7	418.7	3535.0	12017.3	13788.9	14075.5
45°	103.1	136.9	175.5	243.2	249.6	318.9	3134.0	12403.9	14331.6	14589.3
47.5°	82.1	116.0	169.1	227.1	204.5	252.8	2905.3	12808.1	14782.5	14988.7
50°	66.0	96.6	177.2	199.7	170.7	214.2	2898.9	13259.0	15016.0	15152.9
52.5°	53.1	78.9	149.8	153.0	144.9	188.4	3072.8	13766.3	15254.4	15367.1
55°	45.1	66.0	98.2	112.7	130.4	170.7	3203.2	14547.4	15822.9	15929.2
57.5°	35.4	56.4	75.7	90.2	116.0	156.2	3220.9	15149.7	16542.8	16612.0
59°	30.6	48.3	67.6	80.5	106.3	146.6	3148.5	15186.8	16589.5	16700.6
60°	25.8	43.5	59.6	75.7	98.2	138.5	3069.6	14917.8	16415.5	16539.6
62.5°	19.3	33.8	43.5	61.2	80.5	119.2	2695.9	13978.9	15750.4	15837.4
65°	12.9	24.2	32.2	45.1	62.8	103.1	2196.7	12761.4	14722.9	14917.8
67.5°	8.1	17.7	25.8	33.8	51.5	87.0	1565.4	10943.2	13284.8	13410.4
70°	4.8	11.3	19.3	27.4	40.3	69.3	929.2	8649.8	11052.7	11078.4
72.5°	3.2	8.1	12.9	19.3	32.2	62.8	450.9	5638.3	8070.1	8377.7
75°	1.6	4.8	8.1	14.5	25.8	51.5	215.8	3766.9	5871.8	5960.4
77.5°	0.0	1.6	4.8	9.7	19.3	40.3	125.6	2473.7	4003.6	4095.4
80°	0.0	0.0	3.2	8.1	14.5	25.8	75.7	1459.1	2425.4	2470.5
82.5°	0.0	0.0	1.6	6.4	9.7	19.3	38.7	641.0	1587.9	1604.0
85°	0.0	0.0	1.6	6.4	8.1	12.9	14.5	87.0	705.4	718.3
87.5°	0.0	0.0	1.6	8.1	8.1	8.1	8.1	4.8	59.6	74.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)