

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: P455915

Luminaire Tested: **GALN-SA7A-827-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455915
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-SA7A-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA 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: 16816 lumens
Efficiency: N/A
Efficacy: 78.2 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

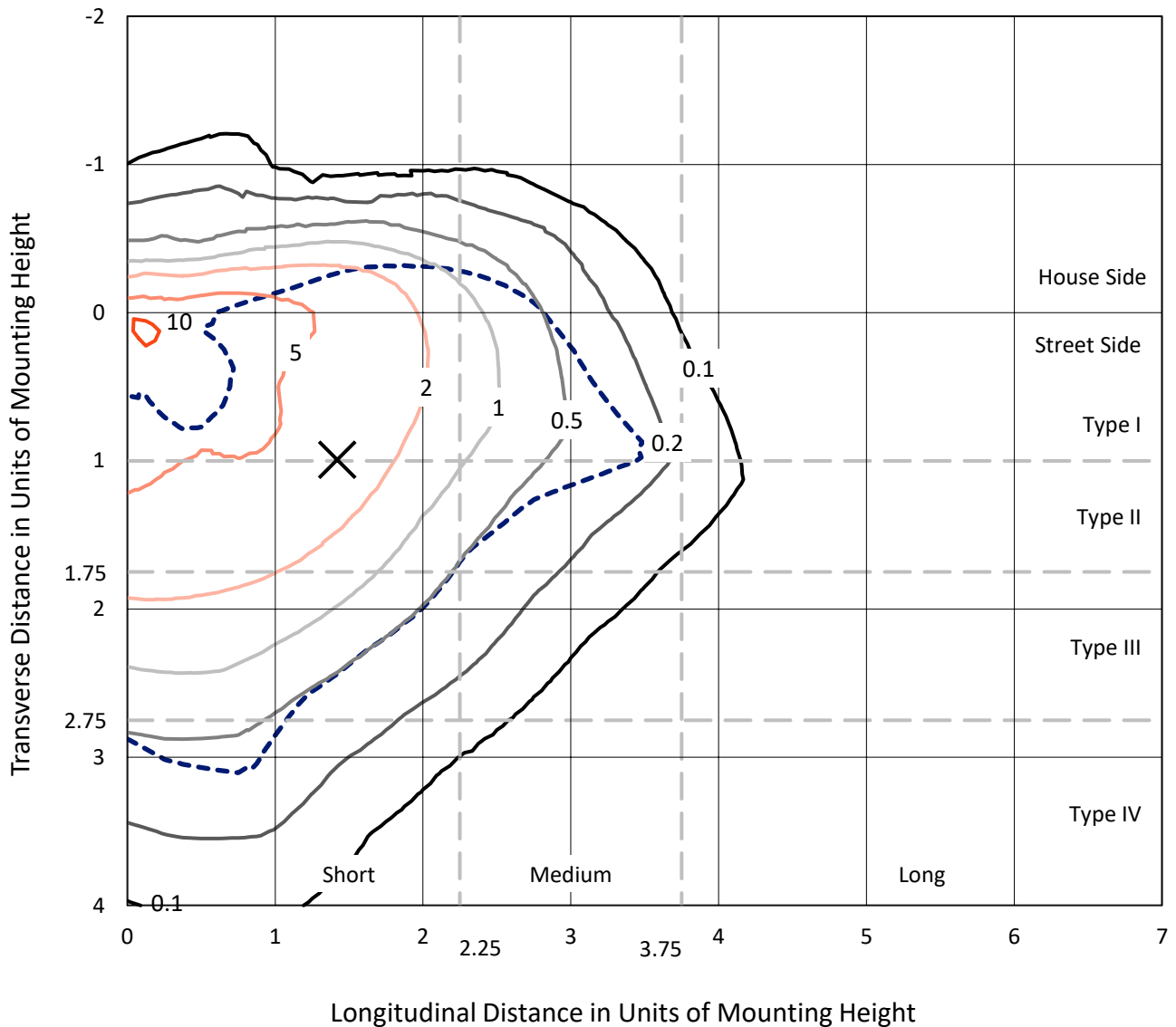
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

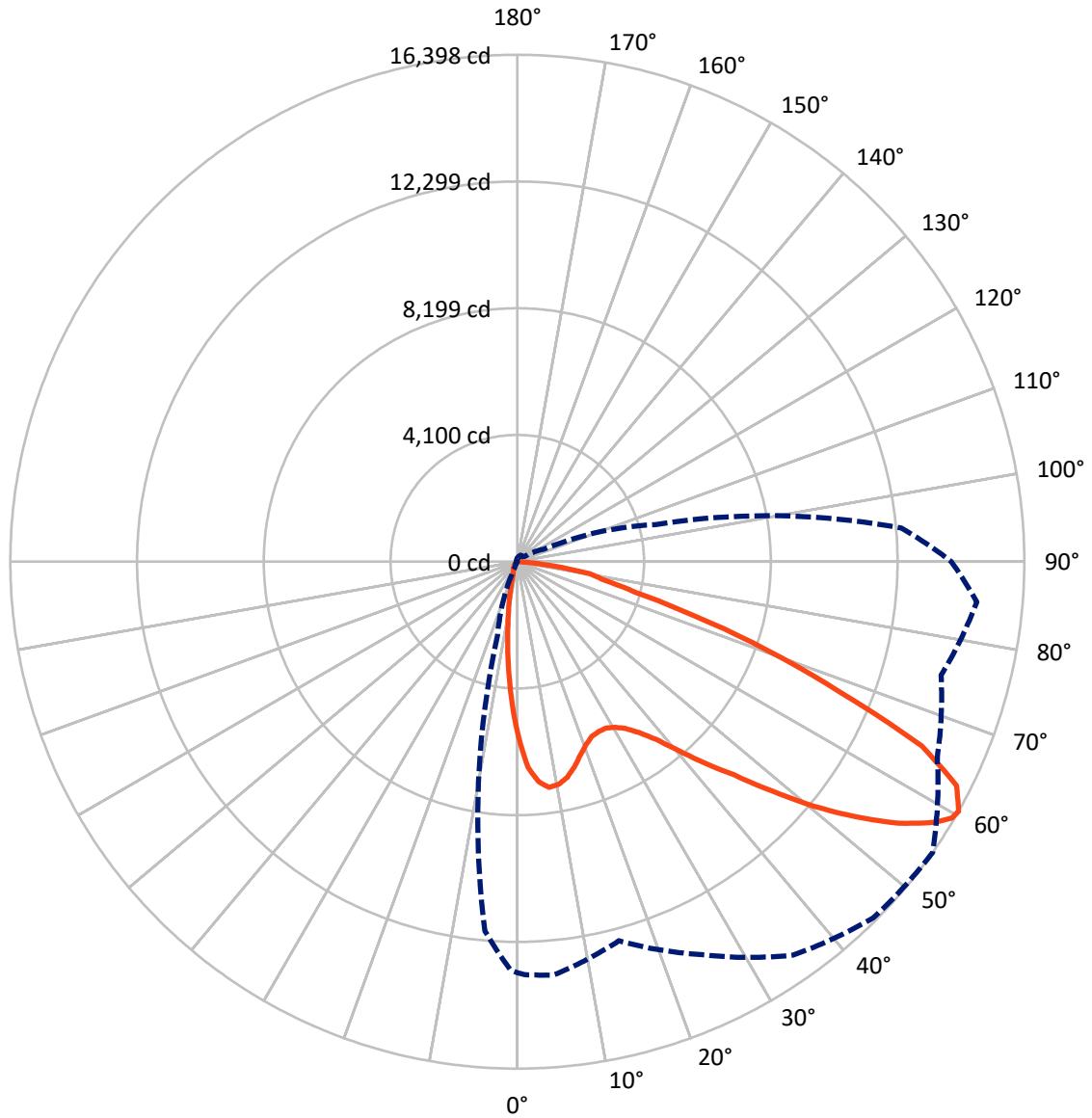
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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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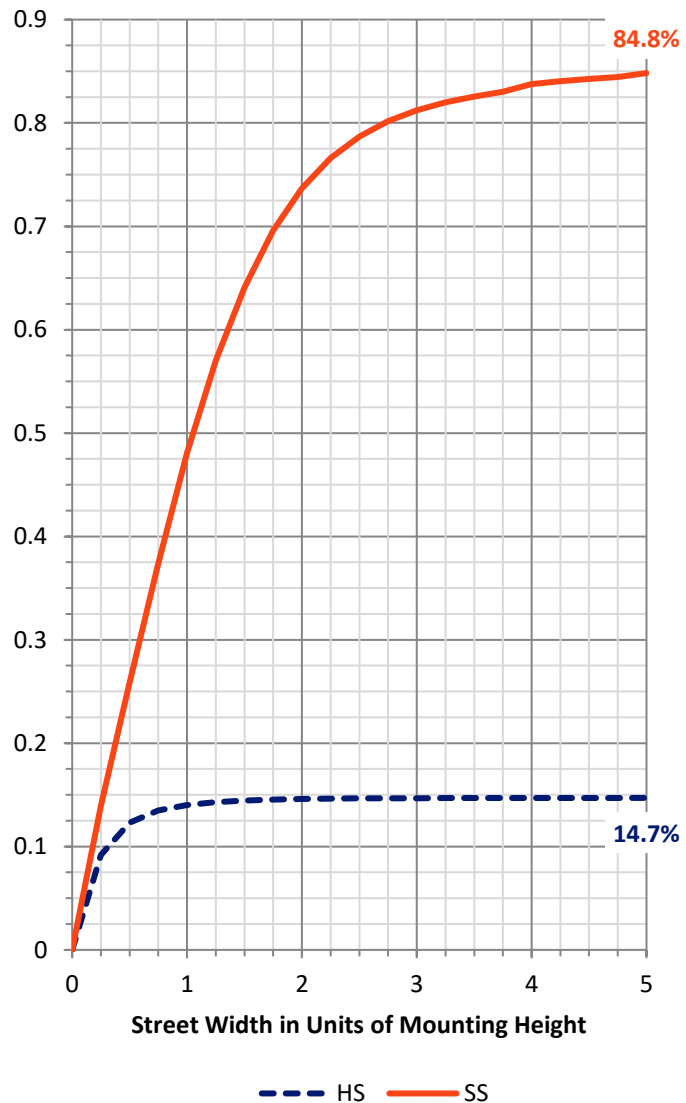
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2495.6	0.0	2495.6
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	14320.4	0.0	14320.4
	% Fixture	85.2	0.0	85.2
Total	Lumens	16816.0	0.0	16816.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.6	2.5
10°-20°	830.3	4.9
20°-30°	1229.0	7.3
30°-40°	1831.9	10.9
40°-50°	2682.9	16.0
50°-60°	3873.3	23.0
60°-70°	4074.5	24.2
70°-80°	1676.1	10.0
80°-90°	196.3	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°	16816.0	100.0
0°-180°	16816.0	100.0



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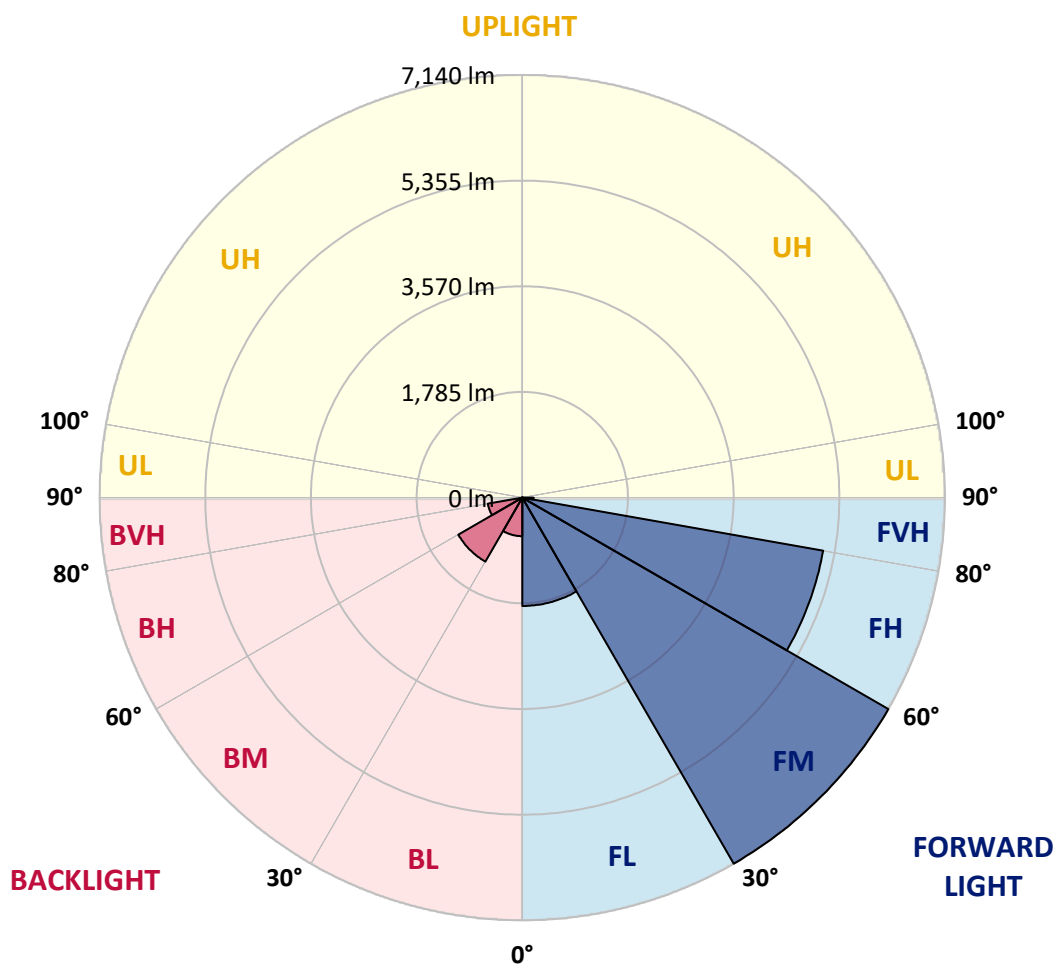
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1829.8	10.9			
FM	(30°-60°)	7140.1	42.5			
FH	(60°-80°)	5159.9	30.7			G3/7500
FVH	(80°-90°)	190.5	1.1			G2/225
BL	(0°-30°)	651.1	3.9	B2/1000		
BM	(30°-60°)	1248.0	7.4	B2/2500		
BH	(60°-80°)	590.7	3.5	B2/1000		G2/1000
BVH	(80°-90°)	5.8	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°	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9
2.5°	6220.7	6210.3	6302.2	6452.3	6603.8	6682.7	6667.2	6660.7	6535.2	6443.3	6250.4
5°	6207.7	6260.8	6425.2	6831.6	7139.6	7288.5	7332.5	7147.4	6902.8	6548.1	6110.6
7.5°	5836.2	5902.2	6170.2	6805.7	7353.2	7676.8	7665.1	7368.7	6863.9	6315.1	5691.3
10°	5375.4	5453.1	5767.6	6539.1	7249.7	7676.8	7700.1	7324.7	6697.0	5992.8	5336.6
12.5°	5050.6	5142.5	5490.6	6290.5	6983.0	7403.7	7430.9	7159.1	6571.4	5868.6	5143.8
15°	4940.5	5027.3	5380.6	6165.0	6699.6	6926.1	6919.6	6891.1	6522.2	5898.4	5154.1
17.5°	5129.5	5200.7	5599.4	6221.9	6434.2	6410.9	6444.6	6581.8	6532.6	6148.2	5480.3
20°	5617.5	5690.0	6118.4	6396.7	6231.0	6083.5	6099.0	6328.1	6628.4	6618.0	5990.3
22.5°	6289.3	6412.2	6800.5	6735.8	6203.8	5880.2	5847.9	6145.6	6791.5	7159.1	6678.9
25°	7139.6	7263.9	7566.8	7276.8	6337.1	5832.3	5802.6	6089.9	6989.5	7687.2	7454.2
27.5°	7854.1	7948.6	8250.2	7803.6	6533.9	5853.1	5803.9	6097.7	7150.0	8136.3	8107.8
30°	8426.2	8496.1	8673.4	8049.6	6703.4	5943.7	5886.7	6211.6	7221.2	8355.0	8637.2
32.5°	8887.0	9004.8	9060.5	8312.3	6946.8	6114.5	6017.4	6430.3	7394.6	8625.6	9192.5
35°	9413.8	9549.7	9478.5	8563.4	7267.8	6381.2	6262.1	6785.0	7657.4	8875.4	9837.1
37.5°	10081.7	10238.3	9960.0	8827.5	7606.9	6782.4	6726.7	7283.3	8056.0	9232.6	10528.3
40°	10772.9	10863.5	10427.3	9148.5	8023.7	7366.2	7419.2	8023.7	8577.7	9661.0	11263.4
42.5°	11312.6	11398.1	10907.5	9417.7	8449.5	8058.6	8280.0	8916.8	9175.7	10099.8	11812.2
45°	11725.5	11798.0	11240.1	9711.5	9024.2	9061.8	9479.8	9837.1	9774.9	10367.8	12235.5
47.5°	12046.5	12108.7	11496.4	10027.3	9885.0	10288.8	10928.2	11079.6	10396.2	10657.7	12618.6
50°	12178.6	12196.7	11576.7	10429.9	10862.2	11852.4	12519.0	12427.1	11108.1	10980.0	13026.4
52.5°	12350.7	12346.8	11805.8	10813.0	11781.2	13250.3	13915.6	13707.2	11913.2	11462.8	13484.6
55°	12802.4	12807.6	12296.3	11356.6	12564.3	14378.9	15090.8	14939.4	12762.3	12278.2	14019.1
57.5°	13351.2	13370.6	12994.0	11992.2	13312.4	15197.0	15968.4	15910.2	13910.4	13185.6	14523.9
59°	13422.4	13461.3	13324.1	12440.0	13756.4	15448.1	16268.7	16325.7	14525.2	13783.5	14797.0
60°	13293.0	13357.7	13419.8	12693.7	14016.5	15538.7	16286.8	16398.1	14987.3	14190.0	14921.3
62.5°	12728.7	12830.9	13142.8	13474.2	14341.4	15256.5	15708.2	15941.2	15559.4	15257.8	14932.9
65°	11989.6	12042.6	12493.1	13612.7	13711.1	13938.9	14078.7	14377.7	14872.1	15669.4	14398.4
67.5°	10778.1	10934.7	11486.1	12808.9	11851.1	11581.9	11546.9	11249.2	12533.2	14688.3	13080.7
70°	8903.8	8973.7	9653.3	10501.1	8944.0	8529.8	8695.5	8584.1	9715.4	12644.5	10528.3
72.5°	6733.2	6891.1	7555.1	8370.6	6086.0	5548.9	6005.8	5964.4	7297.6	10162.0	7232.8
75°	4790.4	4892.6	5739.2	6550.7	4262.3	3611.2	3775.6	3929.7	5094.6	8023.7	4273.9
77.5°	3291.5	3379.6	4015.1	4332.2	3109.0	2978.3	2724.6	2873.5	3338.1	4760.6	2325.9
80°	1985.5	1981.7	2399.7	2477.4	2165.4	2514.9	2109.8	2368.7	2017.9	2037.3	900.9
82.5°	1289.2	1276.2	1467.8	1599.8	1205.0	1267.2	850.4	1225.8	1315.1	568.2	284.8
85°	577.3	601.9	705.4	930.6	528.1	280.9	173.4	376.7	560.5	286.1	0.0
87.5°	59.5	46.6	124.3	226.5	72.5	7.8	25.9	12.9	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°	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9
2.5°	6161.1	6086.0	5862.1	5652.4	5472.5	5252.5	5110.1	4886.2	4750.3	4708.8	4715.3
5°	5913.9	5697.7	5271.9	4931.5	4552.2	4336.1	4007.3	3691.5	3520.6	3457.2	3428.7
7.5°	5396.2	5164.5	4650.6	4116.0	3709.6	3330.4	3085.7	2807.4	2617.2	2460.6	2433.4
10°	5011.7	4707.6	4070.7	3496.0	3175.0	2890.3	2645.7	2367.4	2143.4	1964.8	1915.6
12.5°	4781.3	4440.9	3730.3	3248.8	2944.6	2652.1	2333.7	2011.4	1782.3	1589.5	1500.2
15°	4739.9	4345.1	3634.5	3071.5	2696.1	2342.8	1919.5	1571.3	1335.8	1153.3	1097.6
17.5°	4989.7	4517.3	3620.3	2886.4	2371.3	1870.3	1430.3	1141.6	876.3	774.0	733.9
20°	5435.0	4821.5	3619.0	2671.5	2037.3	1440.6	1004.4	744.3	636.8	587.6	564.3
22.5°	6042.0	5235.7	3687.6	2486.4	1690.4	1062.7	717.1	592.8	530.7	490.6	481.5
25°	6783.7	5849.2	3855.9	2360.9	1425.1	833.6	591.5	507.4	455.6	437.5	429.7
27.5°	7442.5	6436.8	4041.0	2231.5	1234.8	737.8	548.8	464.7	423.3	409.0	397.4
30°	8010.7	6970.1	4130.3	2060.6	1082.1	675.7	556.6	497.0	442.7	400.0	380.5
32.5°	8484.5	7379.1	4188.5	1905.3	952.6	552.7	440.1	384.4	359.8	344.3	331.4
35°	9077.3	7821.8	4153.6	1817.3	886.6	503.5	401.2	331.4	289.9	258.9	245.9
37.5°	9698.6	8264.4	4092.7	1744.8	856.9	467.3	381.8	314.5	269.2	236.9	220.0
40°	10341.9	8674.7	4021.5	1677.5	829.7	444.0	370.2	300.3	255.0	220.0	201.9
42.5°	10930.8	9074.7	3993.1	1633.5	785.7	447.8	361.1	293.8	240.7	204.5	189.0
45°	11407.1	9453.9	4031.9	1610.2	737.8	441.4	363.7	286.1	229.1	194.2	178.6
47.5°	11915.8	9989.8	4157.5	1586.9	691.2	410.3	383.1	284.8	223.9	187.7	170.9
50°	12507.3	10675.8	4444.8	1529.9	634.2	376.7	407.7	283.5	217.5	179.9	163.1
52.5°	13295.6	11455.0	4741.2	1430.3	551.4	344.3	389.6	279.6	204.5	170.9	154.0
55°	14003.6	12275.6	4992.3	1312.5	446.6	297.7	350.8	262.8	182.5	155.3	139.8
57.5°	14296.1	12739.0	4984.5	1149.4	357.2	261.5	288.6	240.7	159.2	137.2	124.3
59°	14188.7	12680.8	4817.6	1029.0	326.2	242.0	239.5	238.2	148.9	124.3	113.9
60°	14037.2	12468.5	4637.7	969.5	306.8	229.1	220.0	235.6	139.8	116.5	106.1
62.5°	13457.4	11588.3	4041.0	868.5	280.9	194.2	176.0	199.3	124.3	101.0	91.9
65°	12617.3	10235.7	3421.0	840.0	273.1	160.5	146.3	142.4	106.1	85.4	77.7
67.5°	10978.7	8661.8	2771.2	820.6	275.7	134.6	128.1	107.4	88.0	71.2	66.0
70°	8789.9	6753.9	2269.0	798.6	278.3	110.0	107.4	85.4	71.2	59.5	54.4
72.5°	5340.5	4003.4	1786.2	693.8	270.5	88.0	95.8	64.7	51.8	42.7	40.1
75°	3301.9	2740.1	1108.0	539.7	178.6	64.7	67.3	40.1	34.9	27.2	27.2
77.5°	1913.1	1730.5	396.1	194.2	79.0	38.8	29.8	20.7	19.4	11.6	11.6
80°	793.4	635.5	137.2	66.0	42.7	18.1	6.5	1.3	0.0	0.0	0.0
82.5°	231.7	205.8	37.5	29.8	12.9	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°	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9
2.5°	4605.3	4562.6	4543.2	4609.2	4548.4	4626.0	4566.5	4592.4	4668.7	4702.4	4789.1
5°	3446.9	3402.8	3382.1	3481.8	3476.6	3525.8	3520.6	3565.9	3604.8	3518.0	3607.4
7.5°	2401.0	2371.3	2420.4	2498.1	2580.9	2553.8	2553.8	2492.9	2513.6	2500.7	2496.8
10°	1826.3	1724.1	1698.2	1695.6	1726.7	1733.1	1698.2	1614.1	1645.1	1654.2	1708.5
12.5°	1436.7	1357.8	1237.4	1183.0	1168.8	1180.4	1065.3	991.5	1026.4	1005.7	1058.8
15°	1030.3	965.6	894.4	833.6	816.7	793.4	667.9	579.9	569.5	573.4	582.5
17.5°	735.2	691.2	691.2	626.5	591.5	521.6	458.2	419.4	415.5	419.4	425.8
20°	542.3	519.0	516.4	499.6	460.8	414.2	370.2	362.4	359.8	366.3	368.9
22.5°	467.3	442.7	422.0	420.7	384.4	345.6	324.9	314.5	315.8	318.4	324.9
25°	418.1	392.2	370.2	357.2	331.4	304.2	284.8	279.6	279.6	283.5	284.8
27.5°	383.1	350.8	331.4	313.2	289.9	266.6	249.8	245.9	243.3	245.9	252.4
30°	358.5	326.2	301.6	274.4	256.3	234.3	220.0	214.9	213.6	214.9	220.0
32.5°	306.8	287.3	267.9	243.3	221.3	207.1	191.6	182.5	182.5	185.1	190.3
35°	231.7	221.3	220.0	213.6	195.4	179.9	161.8	152.7	152.7	157.9	160.5
37.5°	204.5	185.1	182.5	179.9	172.1	151.4	134.6	126.8	125.6	129.4	134.6
40°	186.4	164.4	152.7	150.1	151.4	128.1	110.0	102.3	102.3	103.5	108.7
42.5°	172.1	146.3	125.6	123.0	128.1	107.4	89.3	81.5	81.5	81.5	88.0
45°	160.5	130.7	106.1	93.2	101.0	88.0	72.5	64.7	62.1	64.7	67.3
47.5°	152.7	119.1	93.2	75.1	75.1	69.9	58.2	49.2	46.6	47.9	51.8
50°	146.3	108.7	79.0	60.8	54.4	55.7	44.0	37.5	34.9	34.9	38.8
52.5°	135.9	98.4	68.6	51.8	41.4	37.5	32.4	27.2	25.9	27.2	29.8
55°	123.0	89.3	59.5	42.7	32.4	25.9	23.3	19.4	18.1	19.4	23.3
57.5°	108.7	75.1	47.9	33.7	22.0	16.8	15.5	12.9	10.4	11.6	14.2
59°	99.7	67.3	41.4	27.2	16.8	11.6	11.6	9.1	6.5	7.8	11.6
60°	95.8	62.1	34.9	23.3	14.2	9.1	9.1	6.5	3.9	5.2	9.1
62.5°	81.5	51.8	27.2	14.2	6.5	1.3	3.9	1.3	0.0	1.3	3.9
65°	68.6	41.4	18.1	6.5	0.0	0.0	0.0	0.0	0.0	0.0	1.3
67.5°	57.0	31.1	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	45.3	20.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	31.1	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	19.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.8	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°	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9
2.5°	4794.3	4979.4	5093.3	5308.1	5528.2	5697.7	5910.0	6100.3	6179.2	6220.7
5°	3698.0	3955.5	4174.3	4501.8	4805.9	5176.1	5551.5	5994.1	6163.7	6207.7
7.5°	2595.2	2857.9	3087.0	3466.3	3899.9	4395.6	4957.4	5519.1	5766.3	5836.2
10°	1874.2	2155.1	2434.7	2813.9	3219.1	3756.2	4341.3	5036.3	5321.1	5375.4
12.5°	1183.0	1484.6	1938.9	2407.5	2835.9	3268.2	3880.5	4636.4	4950.9	5050.6
15°	686.0	911.2	1254.2	1865.2	2410.1	2982.2	3650.1	4486.2	4838.3	4940.5
17.5°	459.5	537.2	772.7	1240.0	1959.6	2718.1	3591.8	4609.2	4998.8	5129.5
20°	387.0	422.0	504.8	755.9	1509.2	2482.6	3607.4	4943.1	5454.4	5617.5
22.5°	340.4	372.8	425.8	543.6	1053.6	2190.0	3681.1	5420.7	6080.9	6289.3
25°	300.3	332.6	379.2	450.4	708.0	1852.2	3842.9	6119.7	6910.5	7139.6
27.5°	266.6	296.4	336.5	397.4	544.9	1475.6	3986.6	6800.5	7667.7	7854.1
30°	235.6	260.2	299.0	345.6	453.0	1137.7	4059.1	7395.9	8219.1	8426.2
32.5°	204.5	227.8	265.3	302.9	372.8	867.2	4008.6	7833.4	8755.0	8887.0
35°	174.7	199.3	230.4	265.3	322.3	700.2	3756.2	8325.3	9310.3	9413.8
37.5°	150.1	170.9	203.2	230.4	291.2	560.5	3450.7	8767.9	9932.9	10081.7
40°	126.8	147.6	179.9	204.5	267.9	441.4	3175.0	9259.8	10589.1	10772.9
42.5°	103.5	128.1	156.6	196.7	230.4	336.5	2841.1	9658.4	11082.2	11312.6
45°	82.8	110.0	141.1	195.4	200.6	256.3	2518.8	9969.1	11518.4	11725.5
47.5°	66.0	93.2	135.9	182.5	164.4	203.2	2335.0	10294.0	11880.8	12046.5
50°	53.1	77.7	142.4	160.5	137.2	172.1	2329.8	10656.4	12068.5	12178.6
52.5°	42.7	63.4	120.4	123.0	116.5	151.4	2469.6	11064.1	12260.1	12350.7
55°	36.2	53.1	79.0	90.6	104.8	137.2	2574.5	11691.9	12717.0	12802.4
57.5°	28.5	45.3	60.8	72.5	93.2	125.6	2588.7	12176.0	13295.6	13351.2
59°	24.6	38.8	54.4	64.7	85.4	117.8	2530.5	12205.7	13333.1	13422.4
60°	20.7	34.9	47.9	60.8	79.0	111.3	2467.0	11989.6	13193.3	13293.0
62.5°	15.5	27.2	34.9	49.2	64.7	95.8	2166.7	11235.0	12658.8	12728.7
65°	10.4	19.4	25.9	36.2	50.5	82.8	1765.5	10256.4	11833.0	11989.6
67.5°	6.5	14.2	20.7	27.2	41.4	69.9	1258.1	8795.1	10677.1	10778.1
70°	3.9	9.1	15.5	22.0	32.4	55.7	746.8	6952.0	8883.1	8903.8
72.5°	2.6	6.5	10.4	15.5	25.9	50.5	362.4	4531.5	6486.0	6733.2
75°	1.3	3.9	6.5	11.6	20.7	41.4	173.4	3027.5	4719.2	4790.4
77.5°	0.0	1.3	3.9	7.8	15.5	32.4	101.0	1988.1	3217.8	3291.5
80°	0.0	0.0	2.6	6.5	11.6	20.7	60.8	1172.7	1949.3	1985.5
82.5°	0.0	0.0	1.3	5.2	7.8	15.5	31.1	515.2	1276.2	1289.2
85°	0.0	0.0	1.3	5.2	6.5	10.4	11.6	69.9	566.9	577.3
87.5°	0.0	0.0	1.3	6.5	6.5	6.5	6.5	3.9	47.9	59.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)