

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: P454061

Luminaire Tested: **GALN-SA5A-827-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12090 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

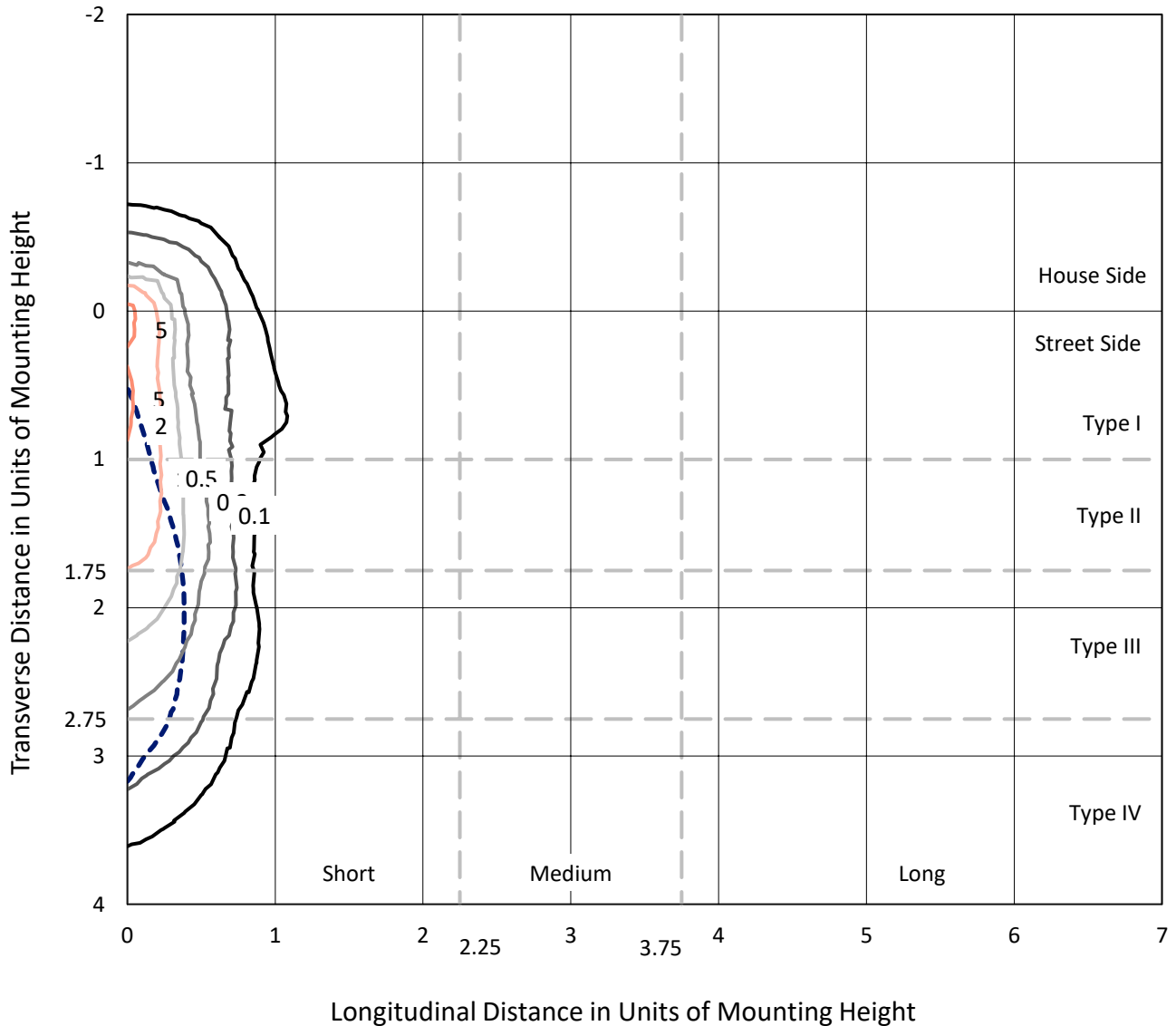
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

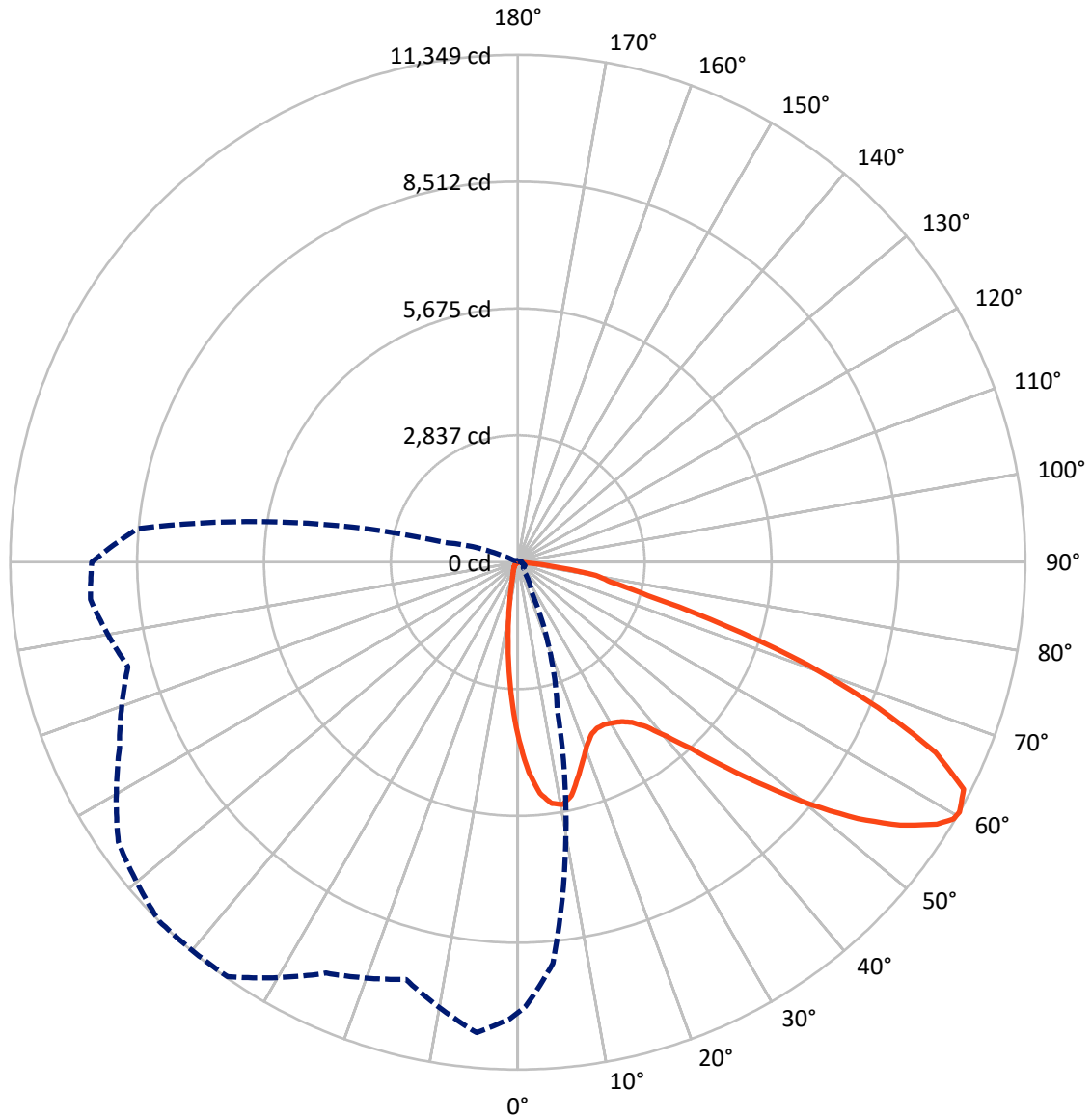
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1491.2	0.0	1491.2
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	10598.8	0.0	10598.8
	% Fixture	87.7	0.0	87.7
Total	Lumens	12090.0	0.0	12090.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.2	2.5
10°-20°	590.2	4.9
20°-30°	865.5	7.2
30°-40°	1287.1	10.6
40°-50°	1873.1	15.5
50°-60°	2701.2	22.3
60°-70°	2971.0	24.6
70°-80°	1330.8	11.0
80°-90°	173.9	1.4
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°	12090.0	100.0
0°-180°	12090.0	100.0

Coefficient of Utilization



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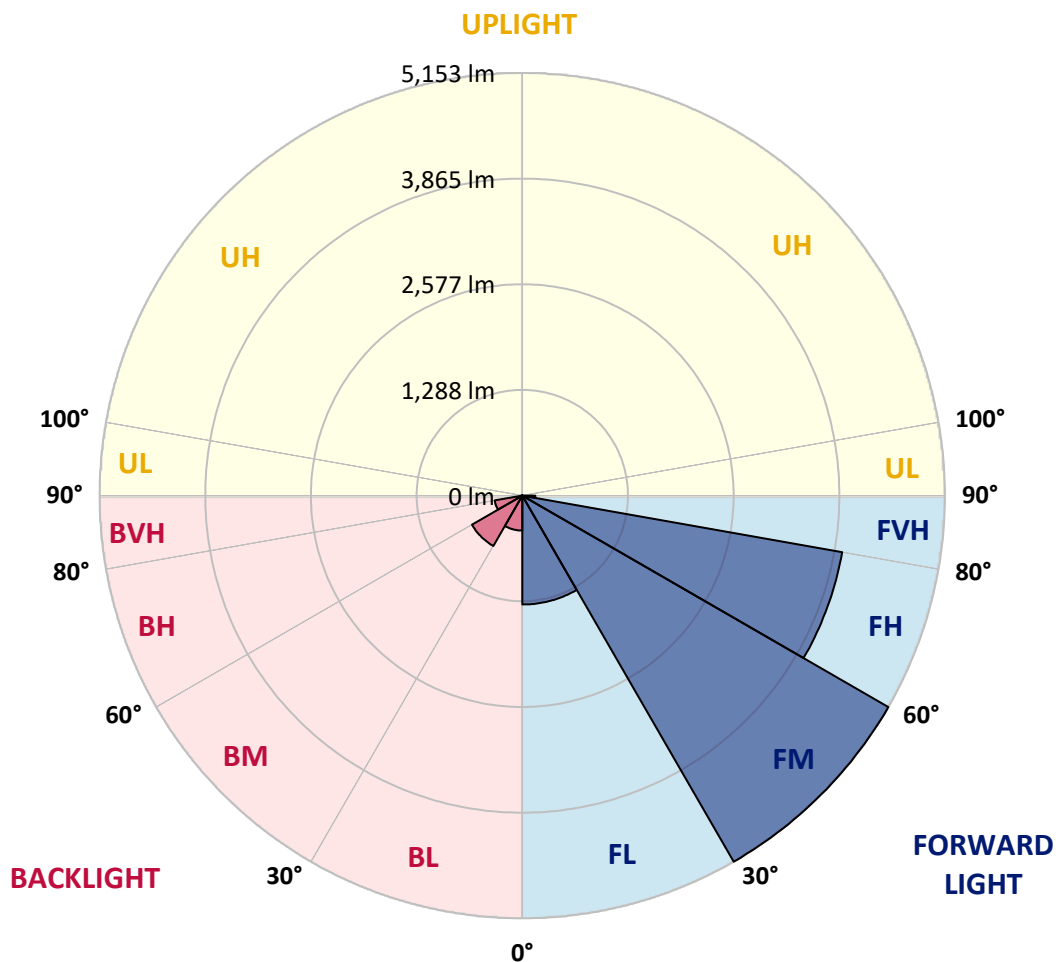
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1326.8	11.0			
FM	(30°-60°)	5153.1	42.6			
FH	(60°-80°)	3959.8	32.8			G2/5000
FVH	(80°-90°)	159.0	1.3			G2/225
BL	(0°-30°)	426.1	3.5	B1/500		
BM	(30°-60°)	708.3	5.9	B1/1000		
BH	(60°-80°)	342.0	2.8	B1/500		G1/500
BVH	(80°-90°)	14.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9
2.5°	4392.9	4373.6	4329.5	4195.3	4078.6	3926.1	3771.7	3650.4	3575.9	3439.0	3376.5
5°	4256.0	4265.2	4137.4	3861.7	3554.8	3345.2	3116.4	2934.4	2734.1	2607.3	2474.0
7.5°	3898.5	3880.1	3741.3	3357.2	2984.1	2680.8	2391.3	2156.0	2008.1	1889.5	1790.3
10°	3592.5	3578.7	3401.3	2906.9	2506.2	2279.2	2083.4	1877.6	1718.6	1544.9	1406.1
12.5°	3400.4	3369.1	3165.1	2648.6	2322.4	2111.0	1897.8	1683.7	1464.0	1288.5	1120.3
15°	3336.1	3291.0	3064.0	2559.5	2204.7	1936.4	1668.9	1422.6	1169.9	976.0	849.2
17.5°	3452.8	3378.3	3136.6	2543.9	2064.1	1708.5	1379.5	1058.7	795.9	647.9	569.8
20°	3720.2	3634.7	3320.4	2528.2	1907.9	1453.0	1048.6	748.1	550.5	469.6	426.4
22.5°	4117.2	3999.6	3592.5	2553.0	1763.6	1203.9	757.3	528.4	437.5	386.9	356.6
25°	4594.2	4495.9	3937.1	2641.3	1649.6	1008.2	585.4	431.9	368.5	337.3	314.3
27.5°	5117.1	4960.0	4382.8	2747.0	1545.8	856.5	513.7	386.0	328.1	299.6	287.7
30°	5489.3	5367.1	4756.0	2820.5	1416.2	742.6	469.6	380.5	329.0	295.0	273.0
32.5°	5856.9	5700.7	5068.4	2854.5	1321.6	663.5	406.2	331.8	288.6	271.1	249.1
35°	6250.3	6086.7	5380.0	2836.1	1250.8	611.2	368.5	295.9	247.2	217.8	195.8
37.5°	6648.2	6475.4	5689.7	2769.9	1206.7	590.0	339.1	281.2	233.4	203.1	179.2
40°	7120.6	6889.9	5980.1	2715.7	1160.7	579.0	319.8	272.0	223.3	191.2	167.3
42.5°	7506.6	7286.9	6254.9	2687.2	1129.5	553.3	319.8	264.7	216.9	181.0	156.2
45°	7872.4	7644.4	6551.7	2710.2	1116.6	521.1	323.5	263.8	212.3	173.7	148.9
47.5°	8178.4	7980.8	6856.8	2796.6	1100.1	486.2	304.2	276.6	209.5	167.3	141.5
50°	8539.6	8348.4	7260.3	2971.2	1070.7	451.2	280.3	297.8	208.6	161.7	135.1
52.5°	9048.7	8841.9	7817.2	3169.7	1023.8	397.9	258.2	295.0	204.9	152.6	128.7
55°	9670.9	9503.6	8462.4	3407.7	959.5	338.2	223.3	261.9	193.9	136.9	117.6
57.5°	10069.7	9927.3	8945.8	3510.7	861.1	276.6	196.7	219.6	177.4	122.2	104.8
59°	10116.6	9988.0	9046.9	3476.7	796.8	252.7	183.8	188.4	172.8	114.0	97.4
60°	10077.1	9943.8	9006.4	3410.5	737.1	236.2	172.8	167.3	173.7	109.4	91.9
62.5°	9823.5	9595.5	8614.0	3075.1	644.2	216.9	153.5	136.9	153.5	98.3	81.8
65°	9333.6	8991.7	7837.4	2602.7	607.5	205.9	130.5	114.9	116.7	86.4	70.8
67.5°	8478.0	8047.0	6803.5	2114.7	591.9	206.8	110.3	102.9	90.1	73.5	62.5
70°	7125.2	6695.1	5459.0	1739.7	584.5	206.8	93.7	88.2	75.4	61.6	54.2
72.5°	5049.1	4585.9	3682.5	1366.6	526.6	205.9	80.0	80.0	61.6	51.5	44.1
75°	2852.7	2856.3	2315.0	966.8	437.5	170.0	64.3	63.4	45.0	39.5	33.1
77.5°	1662.5	1633.1	1560.5	415.4	203.1	77.2	45.0	38.6	31.2	28.5	23.9
80°	854.7	703.1	684.7	150.7	72.6	48.7	31.2	22.1	20.2	18.4	16.5
82.5°	252.7	253.7	226.1	60.7	40.4	32.2	15.6	11.9	11.0	10.1	10.1
85°	17.5	11.0	12.9	18.4	24.8	12.9	0.9	2.8	2.8	3.7	4.6
87.5°	1.8	0.9	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9
2.5°	3307.6	3348.0	3272.6	3274.5	3212.0	3232.2	3158.7	3182.6	3139.4	3172.5	3269.9
5°	2488.7	2497.9	2437.3	2418.0	2427.1	2464.8	2479.5	2412.4	2440.9	2384.9	2381.2
7.5°	1753.5	1764.5	1729.6	1725.0	1791.2	1775.6	1804.0	1735.1	1669.9	1698.4	1646.0
10°	1362.0	1316.0	1244.4	1224.1	1211.3	1219.5	1219.5	1157.1	1147.9	1123.0	1160.7
12.5°	1075.3	1019.2	951.2	859.3	836.3	834.5	800.5	745.3	727.9	706.7	738.0
15°	781.2	758.2	701.2	649.8	597.4	587.3	532.1	487.1	427.3	419.1	416.3
17.5°	549.6	515.6	514.7	485.2	454.9	434.7	383.2	331.8	308.8	306.0	306.0
20°	411.7	399.8	380.5	376.8	367.6	344.6	298.7	271.1	260.1	261.0	264.7
22.5°	346.5	338.2	320.7	312.5	308.8	288.6	254.6	236.2	230.7	230.7	231.6
25°	309.7	302.4	283.1	270.2	265.6	250.9	224.2	210.5	205.9	205.9	205.9
27.5°	282.1	273.0	252.7	241.7	233.4	216.9	200.3	186.6	182.0	182.0	182.9
30°	262.8	252.7	234.4	219.6	206.8	192.1	178.3	166.3	160.8	159.9	160.8
32.5°	237.1	227.9	209.5	200.3	185.6	168.2	157.2	146.1	140.6	141.5	140.6
35°	184.7	182.0	169.1	171.9	163.6	148.9	138.8	126.8	120.4	119.5	121.3
37.5°	168.2	157.2	142.4	143.4	140.6	135.1	118.6	105.7	101.1	101.1	102.0
40°	155.3	144.3	127.7	119.5	120.4	120.4	102.9	89.1	84.6	83.6	85.5
42.5°	144.3	133.3	114.9	101.1	97.4	102.0	87.3	73.5	68.9	67.1	68.9
45°	136.9	125.0	103.8	88.2	77.2	82.7	71.7	60.7	55.1	55.1	54.2
47.5°	129.6	118.6	95.6	76.3	64.3	61.6	58.8	48.7	43.2	42.3	43.2
50°	123.1	112.1	86.4	66.2	54.2	47.8	47.8	38.6	34.9	33.1	34.0
52.5°	116.7	104.8	78.1	58.8	46.9	38.6	34.0	31.2	28.5	27.6	28.5
55°	107.5	95.6	69.8	50.5	40.4	32.2	26.7	25.7	23.9	22.1	23.9
57.5°	96.5	85.5	61.6	43.2	32.2	24.8	22.1	21.1	19.3	18.4	18.4
59°	90.1	80.0	57.0	37.7	28.5	22.1	20.2	19.3	17.5	15.6	16.5
60°	86.4	78.1	54.2	34.9	25.7	20.2	18.4	17.5	15.6	14.7	15.6
62.5°	76.3	69.8	47.8	28.5	20.2	14.7	12.9	13.8	12.9	11.9	12.9
65°	67.1	61.6	40.4	22.1	15.6	10.1	9.2	11.9	11.0	10.1	11.0
67.5°	59.7	53.3	34.0	16.5	11.0	5.5	6.4	10.1	10.1	9.2	10.1
70°	51.5	46.0	27.6	11.9	5.5	2.8	4.6	7.4	9.2	8.3	9.2
72.5°	42.3	35.8	21.1	8.3	2.8	0.0	2.8	6.4	9.2	8.3	9.2
75°	33.1	26.7	15.6	4.6	0.0	0.0	0.9	5.5	9.2	8.3	9.2
77.5°	23.9	19.3	9.2	0.9	0.0	0.0	0.9	5.5	9.2	8.3	9.2
80°	15.6	13.8	3.7	0.0	0.0	0.0	0.9	5.5	9.2	9.2	10.1
82.5°	10.1	7.4	0.0	0.0	0.0	0.0	1.8	7.4	10.1	11.0	11.0
85°	4.6	0.0	0.0	0.0	0.0	0.0	3.7	9.2	11.9	11.9	11.9
87.5°	0.0	0.0	0.0	0.0	0.0	1.8	6.4	11.0	13.8	13.8	13.8
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°	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9
2.5°	3286.4	3344.3	3426.1	3552.0	3654.0	3814.9	3938.0	4106.2	4276.2	4327.7	4407.6
5°	2418.9	2493.3	2679.0	2848.1	2954.7	3294.7	3509.8	3848.9	4153.1	4299.2	4458.2
7.5°	1680.0	1768.2	1909.7	2145.9	2370.2	2646.8	2994.2	3382.0	3827.7	4036.4	4260.6
10°	1179.1	1289.4	1488.8	1682.7	1964.9	2227.7	2570.5	2998.8	3490.5	3736.8	4018.0
12.5°	744.4	842.7	1106.5	1324.3	1676.3	1981.4	2297.6	2685.4	3255.2	3507.9	3802.9
15°	425.5	508.2	631.4	910.8	1301.3	1704.8	2099.1	2549.4	3134.8	3446.3	3765.2
17.5°	317.1	339.1	394.3	552.3	908.0	1379.5	1916.2	2508.0	3216.6	3582.4	3946.3
20°	266.5	281.2	307.0	369.4	579.0	1062.4	1737.9	2515.4	3481.3	3940.8	4286.3
22.5°	238.9	248.1	269.3	309.7	395.2	773.8	1529.3	2558.6	3802.0	4381.0	4779.8
25°	209.5	221.5	239.9	274.8	329.0	536.7	1323.4	2655.1	4251.4	4939.8	5314.7
27.5°	186.6	197.6	216.0	248.1	288.6	409.9	1083.5	2737.8	4725.6	5502.2	5809.2
30°	163.6	174.6	193.0	218.7	255.5	331.8	825.3	2786.5	5186.1	5924.0	6160.2
32.5°	144.3	153.5	170.9	193.9	224.2	281.2	650.7	2735.9	5538.0	6307.3	6465.3
35°	125.0	136.0	150.7	171.9	198.5	239.9	541.3	2561.3	5840.4	6701.5	6758.5
37.5°	104.8	117.6	133.3	152.6	173.7	220.6	434.7	2368.3	6163.9	7193.2	7099.5
40°	88.2	100.2	114.9	136.0	155.3	202.2	334.5	2162.5	6513.1	7654.6	7471.7
42.5°	71.7	84.6	102.0	121.3	153.5	176.5	259.2	1949.3	6826.5	8056.2	7808.0
45°	57.0	68.0	86.4	111.2	152.6	151.6	200.3	1738.8	7062.7	8342.9	8058.9
47.5°	45.0	54.2	72.6	108.4	140.6	128.7	160.8	1608.3	7310.8	8601.1	8251.0
50°	35.8	45.0	62.5	113.0	123.1	110.3	135.1	1629.4	7550.7	8732.6	8330.0
52.5°	30.3	39.5	54.2	89.1	94.7	96.5	118.6	1726.8	7860.4	8873.2	8487.2
55°	26.7	34.9	46.0	62.5	73.5	86.4	108.4	1797.6	8274.9	9174.6	8833.7
57.5°	21.1	30.3	41.4	53.3	60.7	75.4	100.2	1803.1	8649.9	9561.5	9294.1
59°	19.3	27.6	38.6	50.5	54.2	68.0	94.7	1756.3	8663.6	9619.4	9505.5
60°	17.5	26.7	36.8	46.9	51.5	64.3	90.1	1702.0	8538.7	9527.5	9592.8
62.5°	14.7	23.0	32.2	37.7	44.1	53.3	78.1	1505.4	7933.0	9111.2	9431.0
65°	12.9	20.2	27.6	31.2	36.8	46.0	68.9	1204.8	7264.0	8546.9	8967.8
67.5°	11.9	18.4	23.9	26.7	32.2	42.3	61.6	851.0	6397.3	7831.0	8272.1
70°	11.0	17.5	21.1	24.8	28.5	35.8	52.4	496.3	4927.8	6575.6	7041.6
72.5°	11.0	16.5	18.4	21.1	24.8	32.2	48.7	268.4	3369.1	5016.0	5618.0
75°	11.0	15.6	16.5	18.4	22.1	29.4	43.2	140.6	2178.1	3484.9	4301.0
77.5°	11.0	14.7	16.5	17.5	21.1	25.7	37.7	88.2	1451.1	2440.9	2906.9
80°	11.9	14.7	15.6	17.5	20.2	23.9	31.2	58.8	852.9	1468.6	1769.1
82.5°	12.9	14.7	16.5	18.4	21.1	23.0	27.6	36.8	393.3	971.4	1099.2
85°	13.8	15.6	17.5	19.3	22.1	23.0	25.7	26.7	64.3	438.4	592.8
87.5°	14.7	16.5	18.4	20.2	23.9	23.9	23.9	23.9	22.1	46.9	119.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9	3995.9
2.5°	4508.7	4612.6	4685.2	4703.6	4651.2	4627.3	4561.1	4458.2	4395.7	4392.9
5°	4751.4	4994.9	5164.0	5192.5	5091.4	4920.5	4717.4	4455.4	4302.0	4256.0
7.5°	4710.0	5136.4	5408.5	5448.0	5278.0	4951.7	4558.4	4136.5	3969.3	3898.5
10°	4540.0	5060.1	5448.9	5511.4	5284.4	4824.9	4324.9	3854.4	3646.7	3592.5
12.5°	4394.8	4920.5	5266.0	5352.4	5180.5	4721.9	4185.2	3673.3	3450.9	3400.4
15°	4331.4	4755.0	4966.4	5010.5	4982.0	4657.6	4170.5	3645.8	3391.2	3336.1
17.5°	4394.8	4614.4	4641.1	4686.1	4749.5	4651.2	4312.1	3795.6	3520.8	3452.8
20°	4561.1	4492.2	4381.9	4401.2	4546.4	4677.8	4563.9	4127.3	3792.8	3720.2
22.5°	4844.2	4461.9	4211.9	4195.3	4379.2	4767.0	4933.3	4576.7	4188.9	4117.2
25°	5191.6	4538.1	4149.4	4113.6	4313.9	4897.5	5334.9	5127.2	4703.6	4594.2
27.5°	5570.2	4696.2	4149.4	4114.5	4308.4	5013.3	5678.7	5614.3	5236.6	5117.1
30°	5777.9	4826.7	4209.1	4169.6	4376.4	5080.4	5862.5	6047.2	5637.3	5489.3
32.5°	5963.5	5007.8	4325.8	4251.4	4518.8	5179.6	6027.0	6414.8	5956.2	5856.9
35°	6134.5	5201.7	4486.7	4400.3	4706.3	5315.6	6208.9	6800.8	6400.1	6250.3
37.5°	6322.9	5426.8	4737.6	4664.0	5019.7	5580.3	6424.9	7308.1	6836.6	6648.2
40°	6527.8	5687.8	5150.2	5119.0	5517.8	5879.9	6697.8	7849.4	7334.7	7120.6
42.5°	6736.4	5988.4	5655.7	5707.1	6082.1	6299.9	6978.2	8265.7	7742.8	7506.6
45°	6925.8	6372.5	6312.8	6567.3	6740.1	6709.8	7185.9	8558.9	8098.4	7872.4
47.5°	7164.7	6932.2	7107.7	7500.2	7504.8	7155.5	7343.0	8798.7	8404.5	8178.4
50°	7432.1	7593.0	8134.3	8534.1	8426.5	7593.9	7526.8	9082.7	8720.6	8539.6
52.5°	7741.9	8332.8	9082.7	9526.6	9275.7	8071.8	7832.8	9389.7	9222.4	9048.7
55°	8102.1	8837.3	10028.4	10382.2	10129.5	8665.5	8297.9	9806.0	9789.4	9670.9
57.5°	8509.2	9370.4	10576.1	11054.9	10829.8	9362.1	8947.6	10198.4	10135.9	10069.7
59°	8830.9	9644.2	10817.8	11314.1	11178.1	9850.1	9384.2	10442.9	10215.9	10116.6
60°	9025.7	9829.9	10907.0	11349.0	11317.8	10140.5	9660.8	10562.3	10215.0	10077.1
62.5°	9603.8	10154.3	10873.0	11193.7	11315.9	10697.4	10472.3	10693.8	10025.6	9823.5
65°	9809.7	10046.8	10309.6	10270.1	10374.9	10669.0	10990.6	10549.5	9621.3	9333.6
67.5°	9409.0	8867.7	8960.5	8696.7	8645.3	9485.3	10780.2	9843.7	8830.0	8478.0
70°	7931.2	6793.4	6746.6	6867.9	6535.2	7679.4	9680.1	8484.4	7524.1	7125.2
72.5°	6242.9	4801.0	4405.8	4852.4	4842.3	5858.8	8041.5	6020.5	5083.1	5049.1
75°	4909.4	3342.5	2933.5	3006.1	3145.8	4241.3	6404.7	3823.1	3130.2	2852.7
77.5°	3295.6	2368.3	2209.3	2120.2	2270.9	2723.1	4052.0	2073.3	1755.3	1662.5
80°	1899.6	1720.4	1953.8	1773.7	1854.6	1715.8	2015.4	951.2	789.4	854.7
82.5°	1236.1	979.7	1044.0	775.7	1060.6	1069.7	647.0	281.2	238.0	252.7
85°	772.9	459.5	258.2	183.8	365.8	672.7	202.2	17.5	20.2	17.5
87.5°	200.3	76.3	32.2	47.8	58.8	52.4	46.9	2.8	0.9	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)