

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: P651846

Luminaire Tested: **GALN-SA4A-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651846
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-SA4A-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 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: 10926.3 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

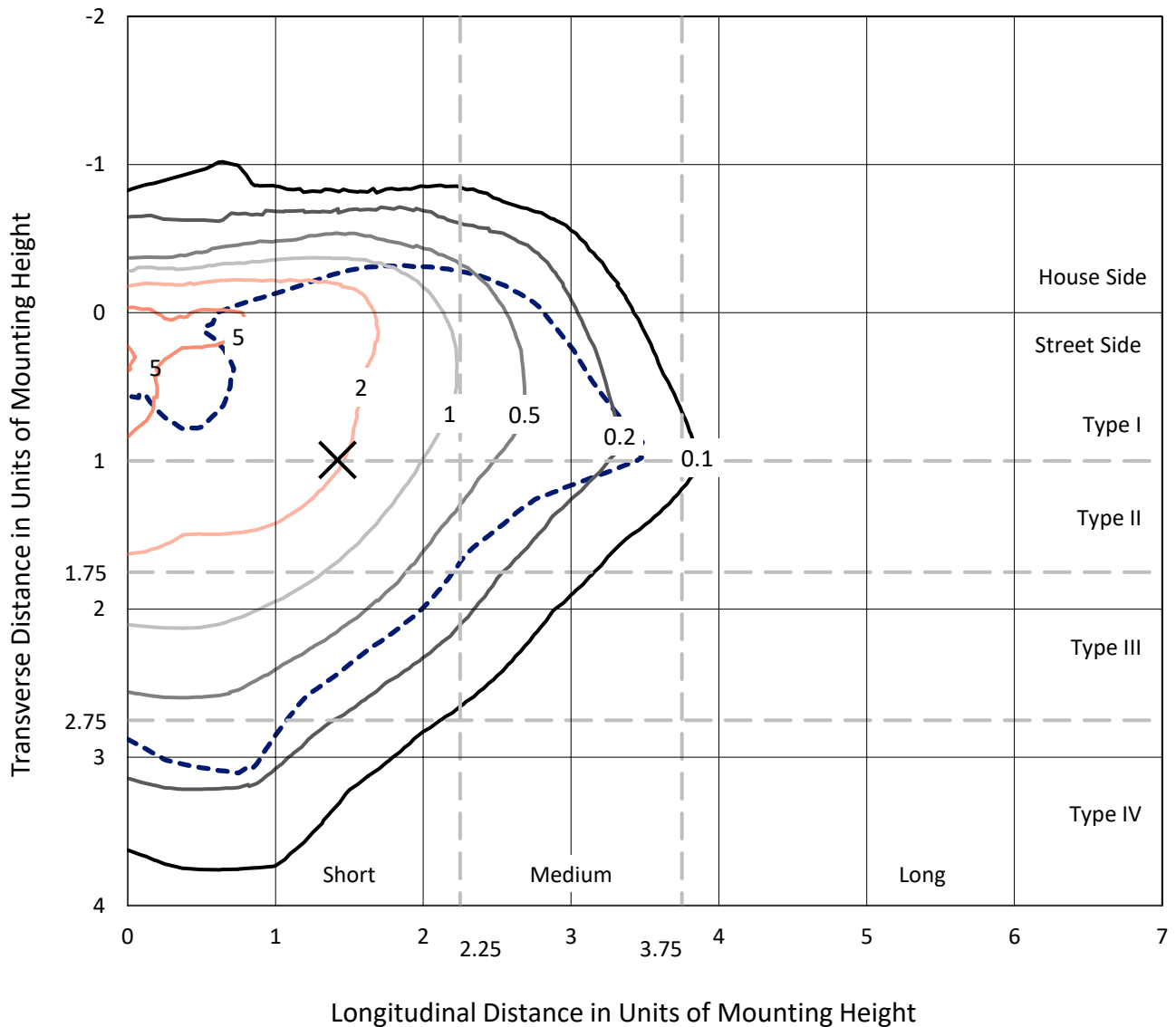
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

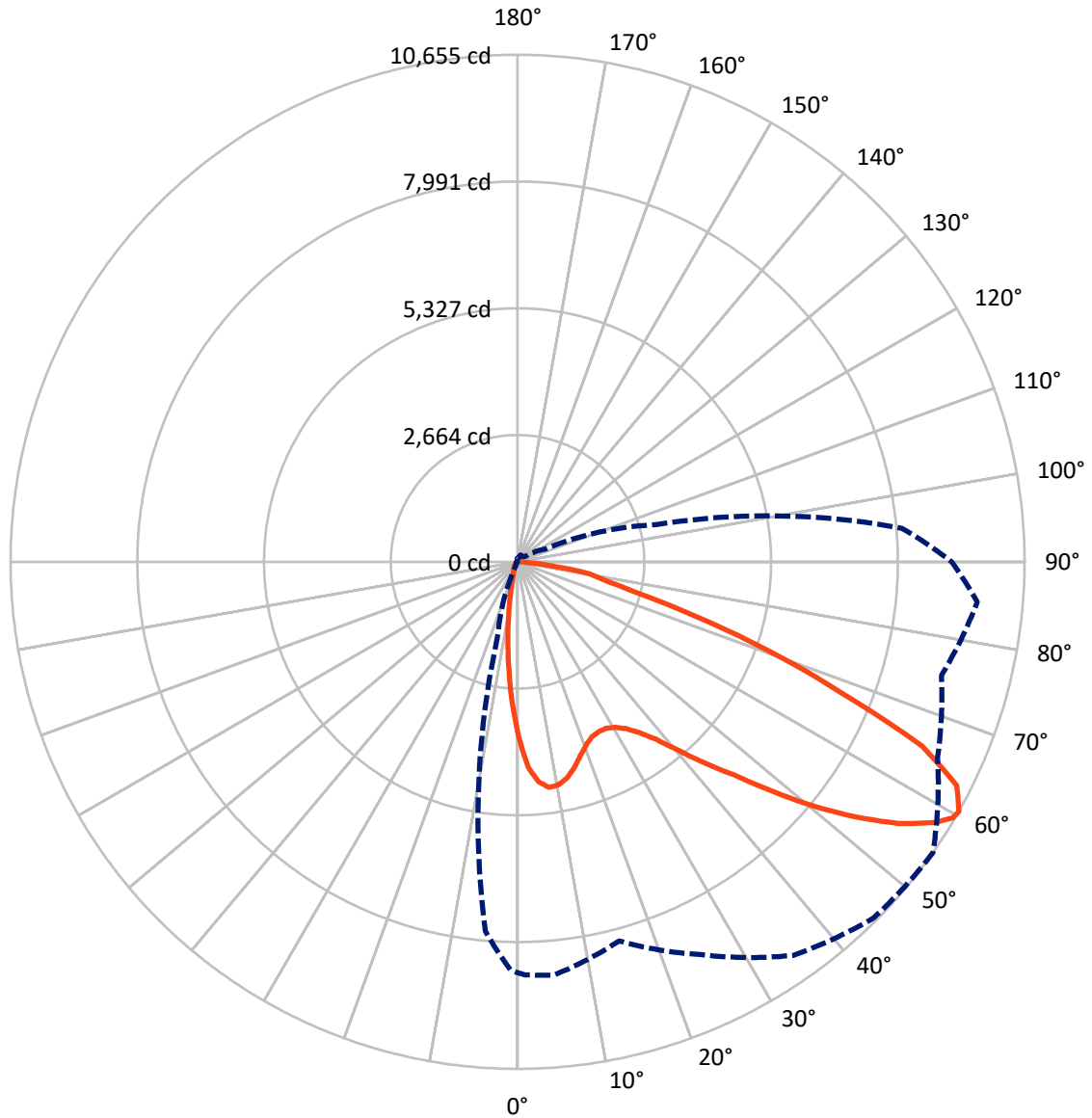
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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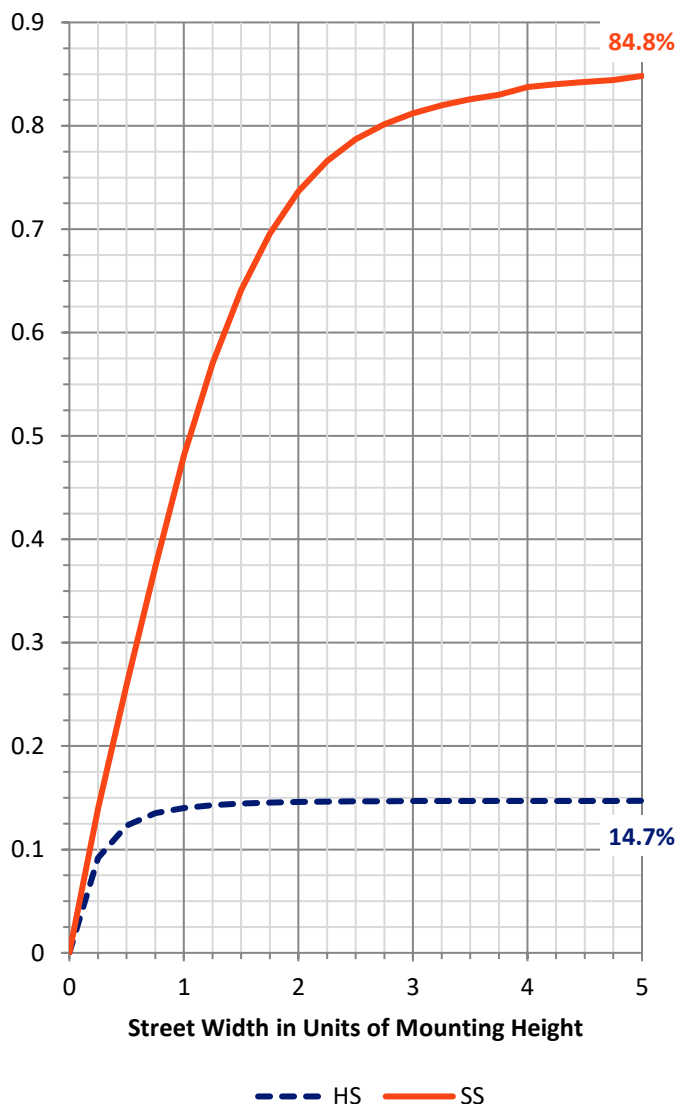
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1621.5	0.0	1621.5
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	9304.7	0.0	9304.7
	% Fixture	85.2	0.0	85.2
Total	Lumens	10926.3	0.0	10926.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.0	2.5
10°-20°	539.5	4.9
20°-30°	798.5	7.3
30°-40°	1190.3	10.9
40°-50°	1743.2	16.0
50°-60°	2516.7	23.0
60°-70°	2647.4	24.2
70°-80°	1089.1	10.0
80°-90°	127.5	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°	10926.3	100.0
0°-180°	10926.3	100.0

Coefficient of Utilization

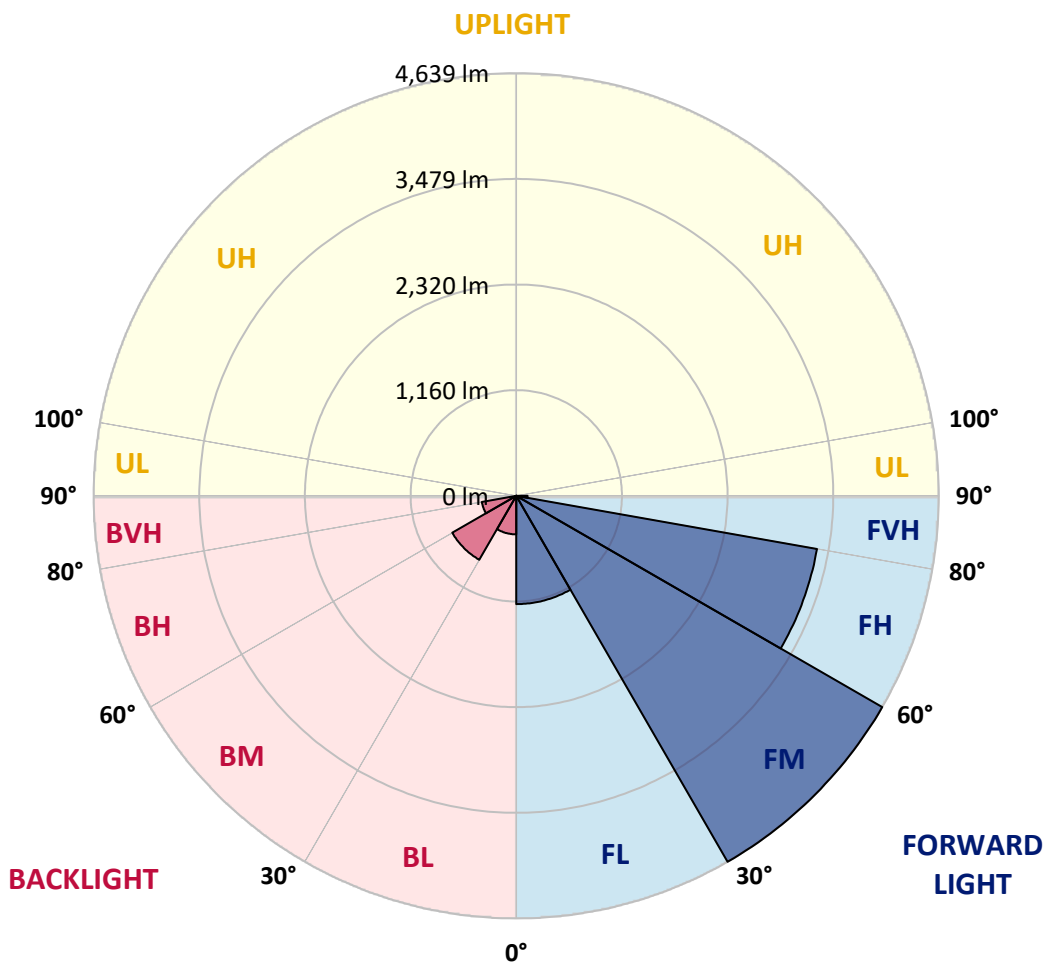


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1188.9	10.9			
FM (30°-60°)	4639.3	42.5			
FH (60°-80°)	3352.7	30.7			G2/5000
FVH (80°-90°)	123.8	1.1			G2/225
BL (0°-30°)	423.1	3.9	B1/500		
BM (30°-60°)	810.9	7.4	B1/1000		
BH (60°-80°)	383.8	3.5	B1/500		G1/500
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3699.6	3699.6	3699.6	3699.6	3699.6	3699.6	3699.6	3699.6	3699.6	3699.6	3699.6
2.5°	4041.9	4035.2	4094.9	4192.5	4290.9	4342.2	4332.1	4327.9	4246.3	4186.6	4061.3
5°	4033.5	4068.0	4174.8	4438.9	4639.0	4735.8	4764.3	4644.1	4485.1	4254.7	3970.4
7.5°	3792.2	3835.0	4009.1	4422.1	4777.8	4988.1	4980.5	4787.9	4459.9	4103.3	3698.0
10°	3492.8	3543.2	3747.6	4248.8	4710.5	4988.1	5003.2	4759.3	4351.4	3893.9	3467.5
12.5°	3281.6	3341.3	3567.6	4087.3	4537.3	4810.6	4828.3	4651.7	4269.8	3813.2	3342.1
15°	3210.1	3266.4	3496.1	4005.8	4353.1	4500.3	4496.1	4477.6	4237.9	3832.5	3348.9
17.5°	3332.9	3379.2	3638.3	4042.8	4180.7	4165.6	4187.4	4276.6	4244.6	3994.8	3560.9
20°	3650.0	3697.1	3975.5	4156.3	4048.7	3952.8	3962.9	4111.7	4306.8	4300.1	3892.2
22.5°	4086.5	4166.4	4418.7	4376.6	4031.0	3820.7	3799.7	3993.2	4412.8	4651.7	4339.6
25°	4639.0	4719.8	4916.6	4728.2	4117.6	3789.6	3770.3	3957.0	4541.5	4994.8	4843.4
27.5°	5103.3	5164.7	5360.6	5070.5	4245.5	3803.1	3771.1	3962.0	4645.8	5286.6	5268.1
30°	5475.0	5520.4	5635.6	5230.3	4355.6	3862.0	3825.0	4036.0	4692.0	5428.7	5612.1
32.5°	5774.4	5850.9	5887.1	5401.0	4513.7	3973.0	3909.9	4178.2	4804.7	5604.5	5972.9
35°	6116.7	6205.0	6158.7	5564.1	4722.3	4146.2	4068.8	4408.6	4975.4	5766.8	6391.7
37.5°	6550.6	6652.4	6471.6	5735.7	4942.6	4406.9	4370.8	4732.4	5234.5	5998.9	6840.8
40°	6999.7	7058.6	6775.2	5944.3	5213.4	4786.2	4820.7	5213.4	5573.4	6277.3	7318.5
42.5°	7350.4	7405.9	7087.2	6119.2	5490.1	5236.2	5380.0	5793.7	5961.9	6562.4	7675.1
45°	7618.7	7665.8	7303.3	6310.1	5863.5	5887.9	6159.6	6391.7	6351.3	6736.5	7950.1
47.5°	7827.3	7867.6	7469.8	6515.3	6422.8	6685.2	7100.6	7199.0	6755.0	6924.9	8199.0
50°	7913.1	7924.8	7522.0	6776.9	7057.8	7701.1	8134.2	8074.5	7217.5	7134.3	8463.9
52.5°	8024.9	8022.4	7670.8	7025.8	7654.9	8609.4	9041.7	8906.3	7740.6	7448.0	8761.6
55°	8318.4	8321.8	7989.6	7379.0	8163.7	9342.8	9805.3	9706.9	8292.3	7977.8	9109.0
57.5°	8675.0	8687.6	8442.9	7791.9	8649.8	9874.3	10375.6	10337.7	9038.3	8567.4	9436.9
59°	8721.3	8746.5	8657.3	8082.9	8938.2	10037.4	10570.7	10607.7	9437.8	8955.9	9614.4
60°	8637.2	8679.2	8719.6	8247.8	9107.3	10096.4	10582.5	10654.8	9738.0	9220.0	9695.1
62.5°	8270.5	8336.9	8539.6	8754.9	9318.4	9913.0	10206.5	10357.9	10109.8	9913.8	9702.7
65°	7790.3	7824.7	8117.4	8844.9	8908.8	9056.8	9147.6	9341.9	9663.2	10181.3	9355.4
67.5°	7003.1	7104.9	7463.1	8322.6	7700.3	7525.4	7502.6	7309.2	8143.5	9543.8	8499.2
70°	5785.3	5830.7	6272.3	6823.1	5811.4	5542.3	5649.9	5577.6	6312.6	8215.8	6840.8
72.5°	4375.0	4477.6	4909.0	5438.8	3954.5	3605.5	3902.3	3875.4	4741.6	6602.8	4699.6
75°	3112.5	3179.0	3729.1	4256.4	2769.4	2346.4	2453.2	2553.3	3310.2	5213.4	2777.0
77.5°	2138.7	2195.9	2608.8	2814.8	2020.1	1935.1	1770.3	1867.0	2168.9	3093.2	1511.3
80°	1290.1	1287.6	1559.2	1609.7	1407.0	1634.1	1370.8	1539.0	1311.1	1323.7	585.3
82.5°	837.6	829.2	953.7	1039.5	783.0	823.3	552.5	796.4	854.5	369.2	185.0
85°	375.1	391.1	458.3	604.7	343.1	182.5	112.7	244.7	364.2	185.9	0.0
87.5°	38.7	30.3	80.7	147.2	47.1	5.0	16.8	8.4	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°	3699.6	3699.6	3699.6	3699.6	3699.6	3699.6	3699.6	3699.6	3699.6	3699.6	3699.6
2.5°	4003.2	3954.5	3809.0	3672.7	3555.8	3412.9	3320.3	3174.8	3086.5	3059.6	3063.8
5°	3842.6	3702.2	3425.5	3204.2	2957.8	2817.4	2603.7	2398.5	2287.5	2246.3	2227.8
7.5°	3506.2	3355.7	3021.7	2674.4	2410.3	2163.9	2004.9	1824.1	1700.5	1598.7	1581.1
10°	3256.4	3058.7	2644.9	2271.5	2063.0	1878.0	1719.0	1538.2	1392.7	1276.6	1244.7
12.5°	3106.7	2885.5	2423.8	2110.9	1913.3	1723.2	1516.3	1306.9	1158.1	1032.7	974.7
15°	3079.7	2823.2	2361.5	1995.7	1751.8	1522.2	1247.2	1021.0	867.9	749.3	713.2
17.5°	3242.1	2935.1	2352.3	1875.4	1540.7	1215.2	929.3	741.8	569.4	502.9	476.8
20°	3531.4	3132.7	2351.4	1735.8	1323.7	936.0	652.6	483.6	413.8	381.8	366.7
22.5°	3925.9	3401.9	2396.0	1615.6	1098.3	690.5	465.9	385.2	344.8	318.7	312.9
25°	4407.8	3800.6	2505.3	1534.0	925.9	541.6	384.3	329.7	296.0	284.3	279.2
27.5°	4835.8	4182.4	2625.6	1449.9	802.3	479.4	356.6	301.9	275.0	265.8	258.2
30°	5205.0	4528.9	2683.6	1338.9	703.1	439.0	361.6	322.9	287.6	259.9	247.3
32.5°	5512.8	4794.6	2721.5	1238.0	619.0	359.1	285.9	249.8	233.8	223.7	215.3
35°	5898.0	5082.2	2698.8	1180.8	576.1	327.1	260.7	215.3	188.4	168.2	159.8
37.5°	6301.7	5369.9	2659.2	1133.7	556.7	303.6	248.1	204.4	174.9	153.9	143.0
40°	6719.7	5636.5	2613.0	1089.9	539.1	288.5	240.5	195.1	165.7	143.0	131.2
42.5°	7102.3	5896.3	2594.5	1061.3	510.5	291.0	234.6	190.9	156.4	132.9	122.8
45°	7411.8	6142.7	2619.7	1046.2	479.4	286.8	236.3	185.9	148.9	126.2	116.1
47.5°	7742.3	6490.9	2701.3	1031.1	449.1	266.6	248.9	185.0	145.5	121.9	111.0
50°	8126.7	6936.7	2888.0	994.1	412.1	244.7	264.9	184.2	141.3	116.9	106.0
52.5°	8638.8	7442.9	3080.6	929.3	358.3	223.7	253.1	181.7	132.9	111.0	100.1
55°	9098.9	7976.1	3243.7	852.8	290.1	193.4	227.9	170.7	118.6	100.9	90.8
57.5°	9288.9	8277.2	3238.7	746.8	232.1	169.9	187.5	156.4	103.4	89.1	80.7
59°	9219.1	8239.4	3130.2	668.6	211.9	157.3	155.6	154.7	96.7	80.7	74.0
60°	9120.7	8101.4	3013.3	629.9	199.3	148.9	143.0	153.1	90.8	75.7	69.0
62.5°	8744.0	7529.6	2625.6	564.3	182.5	126.2	114.4	129.5	80.7	65.6	59.7
65°	8198.2	6650.7	2222.8	545.8	177.5	104.3	95.0	92.5	69.0	55.5	50.5
67.5°	7133.4	5628.1	1800.6	533.2	179.1	87.5	83.3	69.8	57.2	46.3	42.9
70°	5711.3	4388.4	1474.3	518.9	180.8	71.5	69.8	55.5	46.3	38.7	35.3
72.5°	3470.1	2601.2	1160.6	450.8	175.8	57.2	62.2	42.0	33.6	27.8	26.1
75°	2145.4	1780.4	719.9	350.7	116.1	42.0	43.7	26.1	22.7	17.7	17.7
77.5°	1243.0	1124.4	257.3	126.2	51.3	25.2	19.3	13.5	12.6	7.6	7.6
80°	515.5	412.9	89.1	42.9	27.8	11.8	4.2	0.8	0.0	0.0	0.0
82.5°	150.5	133.7	24.4	19.3	8.4	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°	3699.6	3699.6	3699.6	3699.6	3699.6	3699.6	3699.6	3699.6	3699.6	3699.6	3699.6
2.5°	2992.3	2964.5	2951.9	2994.8	2955.3	3005.7	2967.0	2983.9	3033.5	3055.4	3111.7
5°	2239.6	2211.0	2197.5	2262.3	2258.9	2290.9	2287.5	2317.0	2342.2	2285.8	2343.9
7.5°	1560.1	1540.7	1572.7	1623.1	1677.0	1659.3	1659.3	1619.8	1633.2	1624.8	1622.3
10°	1186.7	1120.2	1103.4	1101.7	1121.9	1126.1	1103.4	1048.7	1068.9	1074.8	1110.1
12.5°	933.5	882.2	804.0	768.7	759.4	767.0	692.1	644.2	666.9	653.5	687.9
15°	669.4	627.4	581.1	541.6	530.7	515.5	434.0	376.8	370.0	372.6	378.4
17.5°	477.7	449.1	449.1	407.0	384.3	338.9	297.7	272.5	270.0	272.5	276.7
20°	352.4	337.2	335.6	324.6	299.4	269.1	240.5	235.5	233.8	238.0	239.7
22.5°	303.6	287.6	274.2	273.3	249.8	224.5	211.1	204.4	205.2	206.9	211.1
25°	271.6	254.8	240.5	232.1	215.3	197.6	185.0	181.7	181.7	184.2	185.0
27.5°	248.9	227.9	215.3	203.5	188.4	173.2	162.3	159.8	158.1	159.8	164.0
30°	233.0	211.9	196.0	178.3	166.5	152.2	143.0	139.6	138.8	139.6	143.0
32.5°	199.3	186.7	174.1	158.1	143.8	134.6	124.5	118.6	118.6	120.3	123.6
35°	150.5	143.8	143.0	138.8	127.0	116.9	105.1	99.2	99.2	102.6	104.3
37.5°	132.9	120.3	118.6	116.9	111.9	98.4	87.5	82.4	81.6	84.1	87.5
40°	121.1	106.8	99.2	97.6	98.4	83.3	71.5	66.4	66.4	67.3	70.6
42.5°	111.9	95.0	81.6	79.9	83.3	69.8	58.0	53.0	53.0	53.0	57.2
45°	104.3	84.9	69.0	60.6	65.6	57.2	47.1	42.0	40.4	42.0	43.7
47.5°	99.2	77.4	60.6	48.8	48.8	45.4	37.8	32.0	30.3	31.1	33.6
50°	95.0	70.6	51.3	39.5	35.3	36.2	28.6	24.4	22.7	22.7	25.2
52.5°	88.3	63.9	44.6	33.6	26.9	24.4	21.0	17.7	16.8	17.7	19.3
55°	79.9	58.0	38.7	27.8	21.0	16.8	15.1	12.6	11.8	12.6	15.1
57.5°	70.6	48.8	31.1	21.9	14.3	10.9	10.1	8.4	6.7	7.6	9.3
59°	64.8	43.7	26.9	17.7	10.9	7.6	7.6	5.9	4.2	5.0	7.6
60°	62.2	40.4	22.7	15.1	9.3	5.9	5.9	4.2	2.5	3.4	5.9
62.5°	53.0	33.6	17.7	9.3	4.2	0.8	2.5	0.8	0.0	0.8	2.5
65°	44.6	26.9	11.8	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.8
67.5°	37.0	20.2	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	29.4	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	20.2	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	12.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.0	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°	3699.6	3699.6	3699.6	3699.6	3699.6	3699.6	3699.6	3699.6	3699.6	3699.6
2.5°	3115.1	3235.3	3309.3	3449.0	3592.0	3702.2	3840.1	3963.7	4015.0	4041.9
5°	2402.7	2570.1	2712.2	2925.0	3122.6	3363.2	3607.1	3894.8	4004.9	4033.5
7.5°	1686.2	1856.9	2005.8	2252.2	2533.9	2856.0	3221.0	3586.1	3746.7	3792.2
10°	1217.8	1400.3	1581.9	1828.3	2091.6	2440.6	2820.7	3272.3	3457.4	3492.8
12.5°	768.7	964.6	1259.8	1564.3	1842.6	2123.5	2521.3	3012.5	3216.8	3281.6
15°	445.7	592.1	814.9	1211.9	1565.9	1937.7	2371.6	2914.9	3143.7	3210.1
17.5°	298.6	349.0	502.1	805.7	1273.3	1766.1	2333.8	2994.8	3247.9	3332.9
20°	251.5	274.2	328.0	491.1	980.6	1613.0	2343.9	3211.8	3544.1	3650.0
22.5°	221.2	242.2	276.7	353.2	684.6	1423.0	2391.8	3522.2	3951.1	4086.5
25°	195.1	216.1	246.4	292.7	460.0	1203.5	2496.9	3976.3	4490.2	4639.0
27.5°	173.2	192.6	218.7	258.2	354.1	958.7	2590.3	4418.7	4982.2	5103.3
30°	153.1	169.0	194.3	224.5	294.3	739.2	2637.4	4805.6	5340.4	5475.0
32.5°	132.9	148.0	172.4	196.8	242.2	563.5	2604.6	5089.8	5688.6	5774.4
35°	113.5	129.5	149.7	172.4	209.4	455.0	2440.6	5409.4	6049.4	6116.7
37.5°	97.6	111.0	132.0	149.7	189.2	364.2	2242.1	5697.0	6453.9	6550.6
40°	82.4	95.9	116.9	132.9	174.1	286.8	2063.0	6016.6	6880.3	6999.7
42.5°	67.3	83.3	101.8	127.8	149.7	218.7	1846.0	6275.6	7200.7	7350.4
45°	53.8	71.5	91.7	127.0	130.4	166.5	1636.6	6477.5	7484.1	7618.7
47.5°	42.9	60.6	88.3	118.6	106.8	132.0	1517.2	6688.6	7719.6	7827.3
50°	34.5	50.5	92.5	104.3	89.1	111.9	1513.8	6924.0	7841.6	7913.1
52.5°	27.8	41.2	78.2	79.9	75.7	98.4	1604.6	7189.0	7966.0	8024.9
55°	23.5	34.5	51.3	58.9	68.1	89.1	1672.7	7596.8	8262.9	8318.4
57.5°	18.5	29.4	39.5	47.1	60.6	81.6	1682.0	7911.4	8638.8	8675.0
59°	16.0	25.2	35.3	42.0	55.5	76.5	1644.2	7930.7	8663.2	8721.3
60°	13.5	22.7	31.1	39.5	51.3	72.3	1602.9	7790.3	8572.4	8637.2
62.5°	10.1	17.7	22.7	32.0	42.0	62.2	1407.8	7300.0	8225.1	8270.5
65°	6.7	12.6	16.8	23.5	32.8	53.8	1147.1	6664.2	7688.5	7790.3
67.5°	4.2	9.3	13.5	17.7	26.9	45.4	817.5	5714.7	6937.5	7003.1
70°	2.5	5.9	10.1	14.3	21.0	36.2	485.3	4517.1	5771.9	5785.3
72.5°	1.7	4.2	6.7	10.1	16.8	32.8	235.5	2944.3	4214.3	4375.0
75°	0.8	2.5	4.2	7.6	13.5	26.9	112.7	1967.1	3066.3	3112.5
77.5°	0.0	0.8	2.5	5.0	10.1	21.0	65.6	1291.8	2090.7	2138.7
80°	0.0	0.0	1.7	4.2	7.6	13.5	39.5	761.9	1266.5	1290.1
82.5°	0.0	0.0	0.8	3.4	5.0	10.1	20.2	334.7	829.2	837.6
85°	0.0	0.0	0.8	3.4	4.2	6.7	7.6	45.4	368.4	375.1
87.5°	0.0	0.0	0.8	4.2	4.2	4.2	4.2	2.5	31.1	38.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)