

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: P452987

Luminaire Tested: **GALN-SA4A-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13041 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

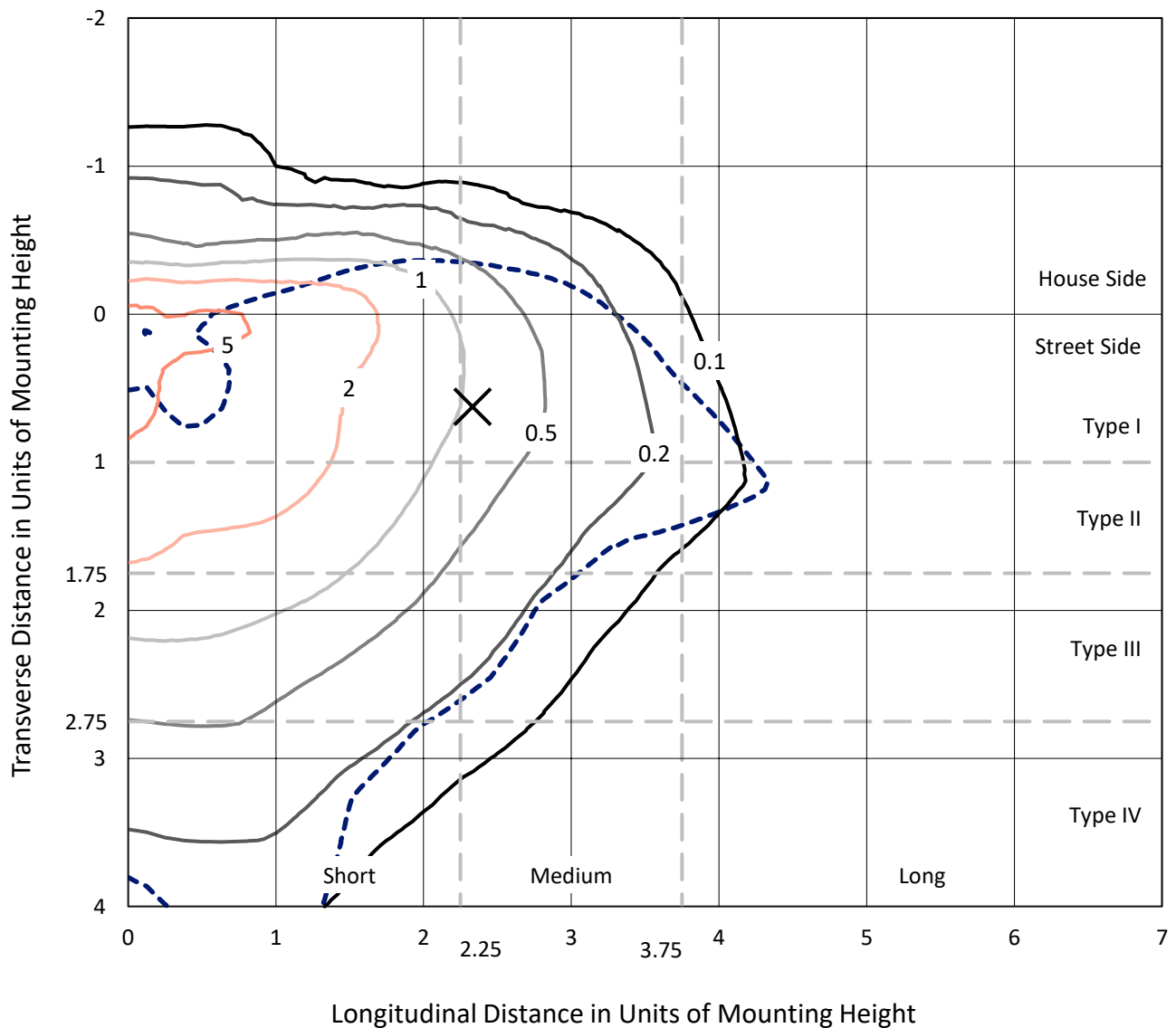
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

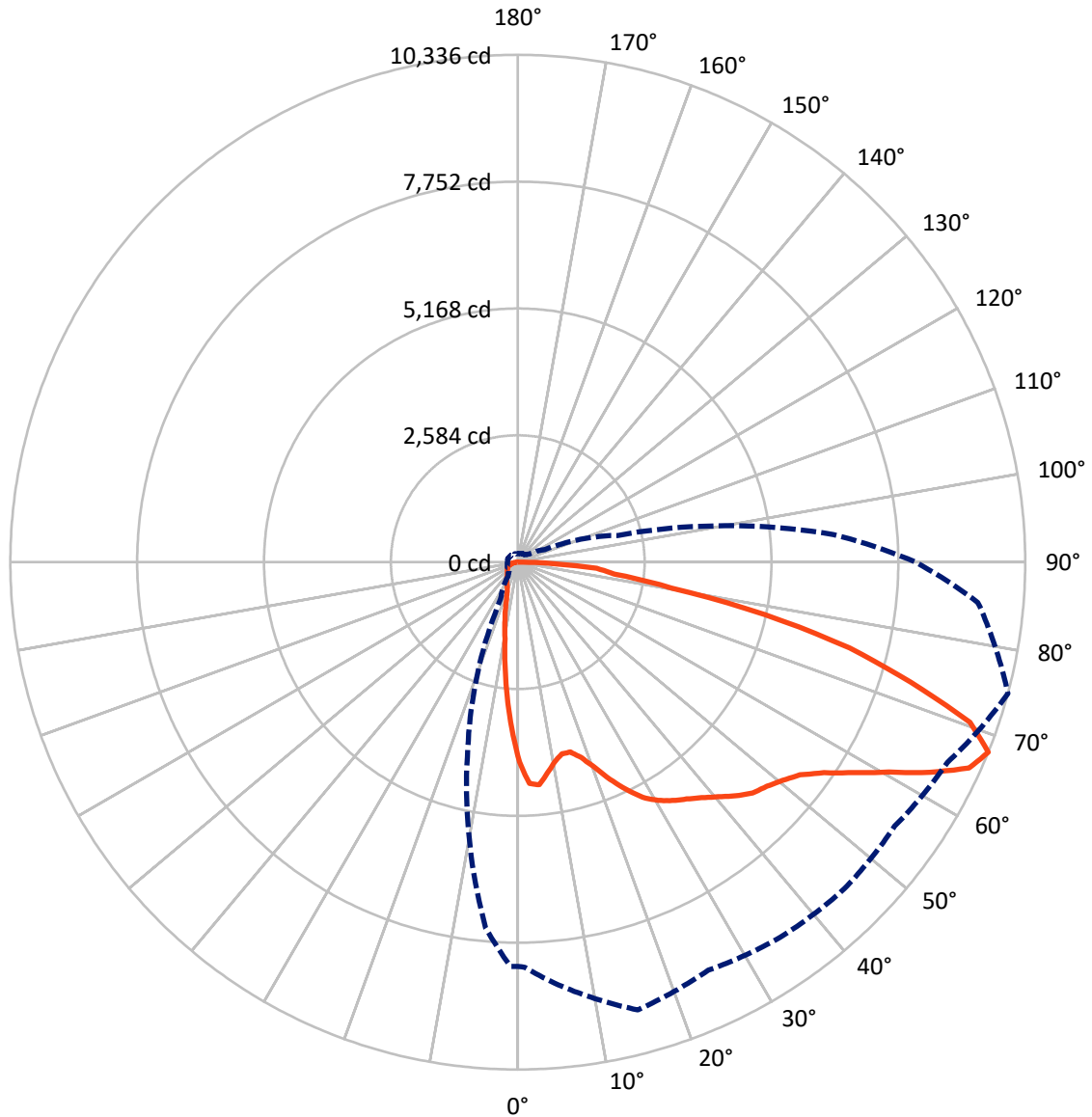
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2204.2	0.0	2204.2
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	10836.8	0.0	10836.8
	% Fixture	83.1	0.0	83.1
Total	Lumens	13041.0	0.0	13041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.0	2.4
10°-20°	644.5	4.9
20°-30°	927.4	7.1
30°-40°	1335.7	10.2
40°-50°	1876.4	14.4
50°-60°	2616.9	20.1
60°-70°	3111.3	23.9
70°-80°	1832.4	14.1
80°-90°	387.5	3.0
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°	13041.0	100.0
0°-180°	13041.0	100.0

Coefficient of Utilization



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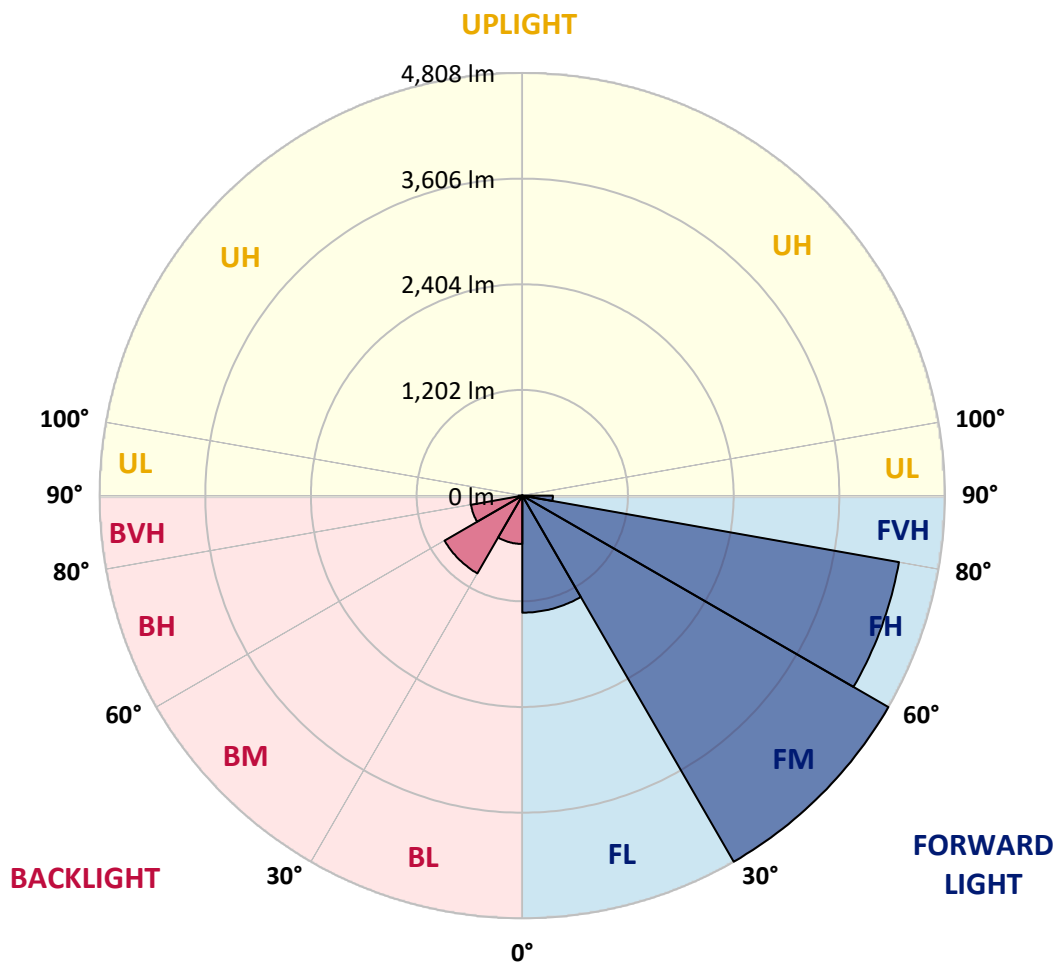
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1331.1	10.2			
FM	(30°-60°)	4807.7	36.9			
FH	(60°-80°)	4350.5	33.4			G2/5000
FVH	(80°-90°)	347.4	2.7			G3/500
BL	(0°-30°)	549.8	4.2	B2/1000		
BM	(30°-60°)	1021.2	7.8	B2/2500		
BH	(60°-80°)	593.1	4.5	B2/1000		G2/1000
BVH	(80°-90°)	40.1	0.3			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4074.3	4074.3	4074.3	4074.3	4074.3	4074.3	4074.3	4074.3	4074.3	4074.3	4074.3
2.5°	4392.9	4398.8	4436.4	4546.0	4621.2	4648.8	4668.1	4632.1	4597.0	4511.7	4382.9
5°	4379.6	4413.8	4511.7	4757.6	4951.6	5035.2	5060.3	4952.4	4774.3	4555.2	4291.7
7.5°	4123.7	4169.7	4320.2	4732.5	5074.5	5270.2	5244.3	5049.4	4728.3	4337.7	3969.8
10°	3820.1	3871.1	4052.6	4551.0	4991.7	5261.0	5261.0	5023.5	4597.0	4132.9	3708.9
12.5°	3579.2	3632.8	3840.2	4364.5	4819.4	5074.5	5117.1	4913.1	4502.5	4003.2	3537.4
15°	3499.8	3551.6	3774.9	4251.6	4637.1	4792.7	4806.9	4740.0	4456.5	4012.4	3529.9
17.5°	3598.5	3665.4	3891.2	4285.1	4469.9	4479.1	4489.9	4542.6	4461.5	4180.5	3682.1
20°	3883.6	3955.6	4191.4	4392.9	4323.5	4228.2	4234.0	4369.5	4520.9	4458.2	4045.9
22.5°	4295.1	4357.8	4599.5	4582.8	4261.6	4065.1	4024.1	4213.1	4608.7	4804.4	4433.1
25°	4739.2	4812.7	5090.4	4864.6	4279.2	3968.1	3942.2	4121.1	4699.8	5128.0	4880.5
27.5°	5247.6	5319.5	5538.6	5148.9	4371.2	3960.6	3929.6	4112.8	4781.8	5427.4	5307.8
30°	5625.6	5691.7	5840.5	5388.1	4484.1	4010.8	3972.3	4178.9	4852.0	5632.3	5724.3
32.5°	5922.5	5991.1	6072.2	5537.0	4632.9	4101.9	4030.8	4299.3	4944.0	5788.7	6032.9
35°	6231.9	6313.0	6307.2	5669.1	4771.8	4207.3	4137.9	4473.2	5088.7	5925.0	6424.2
37.5°	6624.1	6656.7	6614.9	5787.8	4938.2	4397.1	4358.6	4731.6	5294.4	6089.7	6881.7
40°	7022.2	7087.4	6872.5	5931.7	5140.6	4754.2	4750.0	5113.8	5538.6	6282.9	7324.9
42.5°	7363.4	7418.6	7113.3	6057.1	5385.6	5189.9	5221.7	5626.4	5858.9	6507.0	7681.2
45°	7620.1	7669.5	7335.8	6178.4	5708.4	5693.3	5880.7	6175.9	6262.8	6708.6	7890.2
47.5°	7838.4	7886.0	7490.5	6362.4	6107.3	6294.6	6620.8	6748.7	6608.2	6824.0	8124.4
50°	8022.4	8036.6	7596.7	6581.5	6602.4	7031.4	7347.5	7430.3	6949.4	6989.6	8327.6
52.5°	8213.9	8195.5	7779.8	6857.4	7137.6	7730.5	7960.5	8046.6	7276.4	7193.6	8623.6
55°	8642.9	8660.4	8190.4	7205.3	7678.6	8417.1	8719.8	8637.0	7638.5	7569.1	9000.0
57.5°	9161.4	9146.3	8768.3	7749.7	8229.8	9056.0	9281.8	9148.8	8121.9	8085.1	9381.3
60°	9362.9	9383.0	9251.7	8335.1	8773.3	9615.5	9846.3	9639.7	8701.4	8684.7	9669.0
62.5°	9160.5	9273.4	9362.1	8856.1	9236.6	10026.9	10256.0	10020.2	9306.0	9427.3	9870.5
65°	8757.4	8781.7	9083.6	9297.7	9459.9	10094.6	10214.2	10088.8	9811.1	10103.8	9861.3
67.5°	8233.9	8254.8	8608.6	9442.3	9172.2	9325.3	9408.9	9372.1	9654.8	10335.5	9407.2
70°	7735.5	7718.8	8092.6	9073.6	7984.7	7752.2	7821.7	7706.2	8330.9	9769.3	8516.6
72.5°	6765.4	6825.7	7227.1	8048.3	6322.2	5944.2	6095.6	5797.0	6407.5	8366.9	6912.6
75°	5299.5	5313.7	5983.5	6754.6	4769.3	4173.0	4377.9	4253.3	4908.1	6979.5	4773.4
77.5°	3669.6	3637.8	4357.8	5159.0	3401.1	3054.9	3058.2	2998.9	3427.0	5138.9	3243.1
80°	2330.7	2282.2	2727.9	3187.0	2337.4	2500.5	2418.5	2416.0	2231.2	3170.3	1961.1
82.5°	1259.4	1312.9	1723.6	1997.9	1676.7	1932.6	1771.2	1719.4	1531.2	1984.5	1254.4
85°	573.7	623.9	919.1	1358.9	1273.6	1287.9	860.5	1015.2	1267.0	1611.5	669.9
87.5°	56.0	71.9	189.8	641.4	434.9	342.9	127.9	246.7	318.6	572.8	53.5
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°	4074.3	4074.3	4074.3	4074.3	4074.3	4074.3	4074.3	4074.3	4074.3	4074.3	4074.3
2.5°	4330.2	4286.7	4138.7	4016.6	3887.0	3788.3	3659.5	3573.4	3514.0	3424.5	3413.7
5°	4131.2	4025.0	3767.4	3504.8	3278.2	3107.6	2934.5	2775.6	2681.9	2652.7	2615.0
7.5°	3795.8	3616.9	3285.7	2984.7	2724.6	2470.3	2274.7	2135.8	2043.0	1988.7	1923.4
10°	3519.9	3312.5	2909.4	2540.6	2326.5	2168.5	1996.2	1847.3	1732.8	1634.9	1581.4
12.5°	3334.2	3100.1	2646.8	2347.4	2181.8	2013.7	1812.2	1644.9	1476.0	1364.8	1317.1
15°	3278.2	3030.6	2565.7	2251.2	2013.7	1793.8	1568.0	1349.7	1182.5	1077.1	1042.0
17.5°	3415.3	3115.9	2564.8	2123.3	1816.4	1553.8	1264.4	1059.6	888.1	809.5	784.4
20°	3671.2	3279.9	2572.4	1997.0	1602.3	1232.7	919.9	751.8	669.9	636.4	623.9
22.5°	4028.3	3529.9	2595.0	1872.4	1368.1	946.7	689.1	603.8	574.5	568.7	566.2
25°	4468.2	3839.3	2671.1	1760.4	1170.8	722.5	576.2	537.7	521.0	515.1	514.3
27.5°	4873.0	4239.1	2763.0	1664.2	980.1	623.0	521.0	488.4	471.7	470.8	472.5
30°	5238.4	4573.6	2840.0	1556.3	835.4	553.6	485.0	452.4	436.5	435.7	440.7
32.5°	5554.5	4848.7	2896.8	1450.1	755.2	511.0	452.4	417.3	403.9	401.4	403.9
35°	5892.4	5123.0	2870.9	1367.3	709.2	475.8	428.2	393.9	378.0	370.5	370.5
37.5°	6277.9	5405.7	2826.6	1298.7	688.3	446.6	407.3	373.8	357.9	350.4	349.6
40°	6698.5	5688.3	2765.6	1237.7	667.3	429.0	393.0	357.9	338.7	331.2	329.5
42.5°	7069.8	5930.0	2715.4	1197.5	633.1	432.4	380.5	346.2	322.0	311.9	311.1
45°	7392.6	6173.4	2706.2	1174.1	604.6	427.3	377.2	337.0	308.6	297.7	296.0
47.5°	7645.2	6426.8	2758.9	1160.7	573.7	400.6	398.9	331.2	296.9	285.2	283.5
50°	7952.9	6786.3	2879.3	1133.1	545.2	375.5	421.5	330.3	287.7	272.6	268.4
52.5°	8362.7	7254.7	3042.4	1083.8	504.3	352.1	402.2	330.3	276.8	261.8	256.7
55°	8982.4	7851.8	3202.1	1014.4	446.6	321.1	362.9	320.3	260.9	247.5	244.2
57.5°	9393.0	8288.3	3304.1	918.2	374.6	298.5	312.8	304.4	245.0	230.8	230.8
60°	9413.9	8405.4	3255.6	797.0	329.5	277.6	271.8	306.9	230.8	215.8	214.1
62.5°	9173.1	8118.5	3003.1	688.3	305.2	255.1	245.9	269.3	216.6	201.5	199.0
65°	8796.7	7386.8	2564.8	636.4	291.9	235.0	221.6	220.8	201.5	187.3	184.0
67.5°	8105.1	6455.2	2107.4	606.3	285.2	212.4	199.9	195.7	184.0	172.3	170.6
70°	7085.7	5406.5	1690.1	593.8	281.8	189.0	179.0	173.9	163.9	154.7	153.9
72.5°	5512.7	4385.4	1394.9	585.4	280.2	167.3	156.4	149.7	143.8	135.5	135.5
75°	3959.7	3226.3	1064.6	527.7	259.2	143.8	132.1	127.9	119.6	112.9	114.6
77.5°	2496.3	2172.6	700.8	388.0	200.7	115.4	105.4	102.9	96.2	87.0	92.8
80°	1685.9	1527.9	408.9	244.2	126.3	84.5	81.1	80.3	72.8	62.7	63.6
82.5°	1147.4	1125.6	212.4	138.8	72.8	49.3	47.7	49.3	41.0	33.5	33.5
85°	448.2	612.2	100.4	54.4	23.4	7.5	10.9	11.7	6.7	3.3	4.2
87.5°	8.4	62.7	2.5	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°	4074.3	4074.3	4074.3	4074.3	4074.3	4074.3	4074.3	4074.3	4074.3	4074.3	4074.3
2.5°	3396.9	3389.4	3402.0	3348.4	3359.3	3379.4	3389.4	3395.3	3478.1	3458.8	3511.5
5°	2650.1	2642.6	2691.1	2697.8	2722.9	2717.9	2742.1	2748.0	2778.1	2789.0	2862.6
7.5°	1927.6	1960.2	2015.4	2043.8	2086.5	2099.9	2087.3	2118.3	2055.6	2100.7	2114.1
10°	1548.8	1509.5	1486.1	1551.3	1559.6	1621.5	1596.4	1576.4	1613.2	1614.8	1650.0
12.5°	1289.5	1205.1	1149.0	1167.4	1187.5	1214.3	1218.4	1258.6	1285.4	1310.4	1331.3
15°	1011.1	981.8	930.8	905.7	934.1	945.0	970.9	1004.4	1032.8	1040.3	1068.8
17.5°	776.1	781.1	772.7	757.7	775.2	783.6	785.3	786.1	793.6	788.6	830.4
20°	624.7	642.3	663.2	666.5	672.4	676.5	669.0	640.6	641.4	659.0	672.4
22.5°	565.3	568.7	592.1	599.6	618.0	610.5	588.7	575.4	573.7	577.9	584.6
25°	518.5	523.5	540.2	551.9	566.2	552.8	536.9	524.3	522.7	526.9	533.5
27.5°	476.7	484.2	499.3	511.0	524.3	511.8	496.7	485.9	485.0	484.2	488.4
30°	443.2	451.6	462.5	475.8	485.0	474.2	459.9	454.1	453.3	451.6	453.3
32.5°	409.8	423.2	434.0	440.7	449.9	441.6	430.7	427.3	421.5	416.5	414.0
35°	372.1	386.4	403.1	411.4	420.6	412.3	404.8	390.5	380.5	379.7	381.3
37.5°	350.4	356.3	369.6	383.8	393.0	388.9	374.6	360.4	357.9	357.9	359.6
40°	331.2	333.7	339.5	357.9	374.6	362.1	344.5	340.4	340.4	339.5	340.4
42.5°	311.9	314.4	314.4	328.7	355.4	335.3	322.0	322.0	322.0	322.8	325.3
45°	294.4	295.2	294.4	304.4	329.5	312.8	303.6	306.1	307.7	309.4	311.1
47.5°	279.3	280.2	279.3	287.7	300.2	293.5	288.5	291.9	295.2	297.7	299.4
50°	265.9	265.1	266.8	271.8	277.6	279.3	276.0	281.0	282.7	286.0	290.2
52.5°	254.2	253.4	255.1	257.6	265.9	265.9	265.9	270.1	273.5	276.8	282.7
55°	240.8	241.7	244.2	247.5	258.4	256.7	257.6	260.9	264.3	269.3	272.6
57.5°	228.3	230.0	233.3	238.3	249.2	248.4	249.2	250.9	255.1	257.6	260.9
60°	214.1	217.4	221.6	225.0	235.8	235.0	239.2	242.5	245.0	245.0	246.7
62.5°	199.9	204.9	209.1	211.6	223.3	224.1	230.0	232.5	234.2	232.5	235.0
65°	185.7	193.2	194.9	198.2	209.9	210.7	217.4	223.3	221.6	219.9	224.1
67.5°	171.4	180.6	179.8	184.0	195.7	197.4	203.2	213.2	209.9	208.2	211.6
70°	155.5	162.2	163.1	165.6	181.5	179.0	188.2	197.4	194.9	195.7	195.7
72.5°	138.0	143.8	143.8	148.9	165.6	161.4	168.9	179.0	179.0	178.1	178.1
75°	117.1	120.4	123.8	131.3	148.9	143.8	148.9	158.1	159.7	158.1	158.1
77.5°	94.5	99.5	101.2	111.2	123.8	122.9	127.9	132.1	135.5	133.8	133.8
80°	66.9	71.9	78.6	89.5	97.0	99.5	102.0	105.4	107.0	107.0	108.7
82.5°	37.6	45.2	51.0	61.9	65.2	77.8	76.9	79.4	76.9	67.7	75.3
85°	8.4	15.9	22.6	28.4	32.6	45.2	47.7	53.5	44.3	41.0	41.0
87.5°	0.0	0.0	0.0	0.0	0.0	6.7	13.4	18.4	15.9	13.4	13.4
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°	4074.3	4074.3	4074.3	4074.3	4074.3	4074.3	4074.3	4074.3	4074.3	4074.3
2.5°	3555.8	3628.6	3716.4	3867.8	3974.0	4088.5	4203.9	4326.9	4359.5	4392.9
5°	2882.6	3025.6	3103.4	3306.6	3519.9	3790.8	4012.4	4255.0	4356.1	4379.6
7.5°	2183.5	2280.5	2484.6	2690.3	2954.5	3238.9	3578.4	3956.4	4074.3	4123.7
10°	1731.1	1863.2	2042.2	2263.0	2494.6	2800.7	3183.7	3625.2	3792.5	3820.1
12.5°	1473.5	1620.7	1815.5	2048.9	2268.0	2498.8	2885.1	3340.9	3519.9	3579.2
15°	1178.3	1356.4	1581.4	1827.3	2065.6	2318.1	2709.5	3223.8	3430.4	3499.8
17.5°	925.8	1069.6	1312.9	1579.7	1862.4	2181.8	2672.7	3279.9	3534.1	3598.5
20°	708.3	811.2	1016.1	1297.9	1629.1	2047.2	2681.9	3491.4	3795.8	3883.6
22.5°	612.2	664.8	789.4	1057.9	1428.4	1930.1	2719.6	3781.6	4148.7	4295.1
25°	554.4	582.0	652.3	827.9	1236.8	1816.4	2805.7	4172.2	4642.1	4739.2
27.5°	505.1	525.2	568.7	694.9	1062.9	1711.0	2906.0	4605.3	5102.9	5247.6
30°	458.3	485.0	526.0	617.2	951.7	1614.8	3032.3	4956.6	5491.0	5625.6
32.5°	422.3	449.1	486.7	562.8	857.2	1513.7	3107.6	5265.2	5807.9	5922.5
35°	393.0	415.6	454.9	519.3	785.3	1436.7	3092.5	5510.2	6114.8	6231.9
37.5°	372.1	391.4	430.7	478.3	730.9	1356.4	3085.0	5833.8	6488.6	6624.1
40°	352.9	373.0	408.9	451.6	676.5	1261.9	3089.2	6155.0	6886.7	7022.2
42.5°	337.9	360.4	389.7	444.1	620.5	1185.8	3089.2	6434.3	7232.9	7363.4
45°	325.3	349.6	378.0	443.2	576.2	1128.1	3068.3	6674.3	7508.9	7620.1
47.5°	314.4	341.2	382.2	428.2	565.3	1086.3	3049.9	6866.6	7733.8	7838.4
50°	306.9	338.7	406.4	410.6	568.7	1073.8	3138.5	7109.1	7932.0	8022.4
52.5°	301.1	339.5	405.6	384.7	562.8	1082.1	3323.3	7488.0	8207.2	8213.9
55°	289.4	338.7	384.7	355.4	538.6	1096.4	3560.8	8038.2	8637.9	8642.9
57.5°	277.6	329.5	357.1	330.3	489.2	1096.4	3846.9	8559.2	9157.2	9161.4
60°	265.9	342.9	313.6	308.6	424.8	1076.3	4148.7	8788.4	9320.3	9362.9
62.5°	254.2	345.4	280.2	289.4	378.0	1027.8	4373.7	8535.0	9099.5	9160.5
65°	240.8	278.5	258.4	269.3	353.7	946.7	4302.6	8070.9	8684.7	8757.4
67.5°	225.0	235.8	235.0	248.4	345.4	827.1	3928.0	7483.8	8238.1	8233.9
70°	205.7	211.6	214.1	228.3	329.5	734.2	3273.2	6722.0	7641.9	7735.5
72.5°	185.7	190.7	193.2	205.7	313.6	681.6	2540.6	5672.4	6619.1	6765.4
75°	163.9	167.3	170.6	181.5	296.9	603.8	1809.7	4330.2	5069.5	5299.5
77.5°	141.3	141.3	145.5	156.4	250.0	498.4	1214.3	3037.3	3434.6	3669.6
80°	114.6	115.4	113.7	125.4	184.0	341.2	689.9	2028.8	2285.5	2330.7
82.5°	87.8	85.3	86.1	92.0	137.1	232.5	368.0	1260.3	1284.5	1259.4
85°	55.2	55.2	53.5	60.2	87.8	121.3	200.7	771.9	603.0	573.7
87.5°	22.6	18.4	20.9	24.3	41.8	49.3	78.6	158.9	61.0	56.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)