

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: P458874

Luminaire Tested: **GALN-SA4A-735-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458874
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-735-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 14527 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

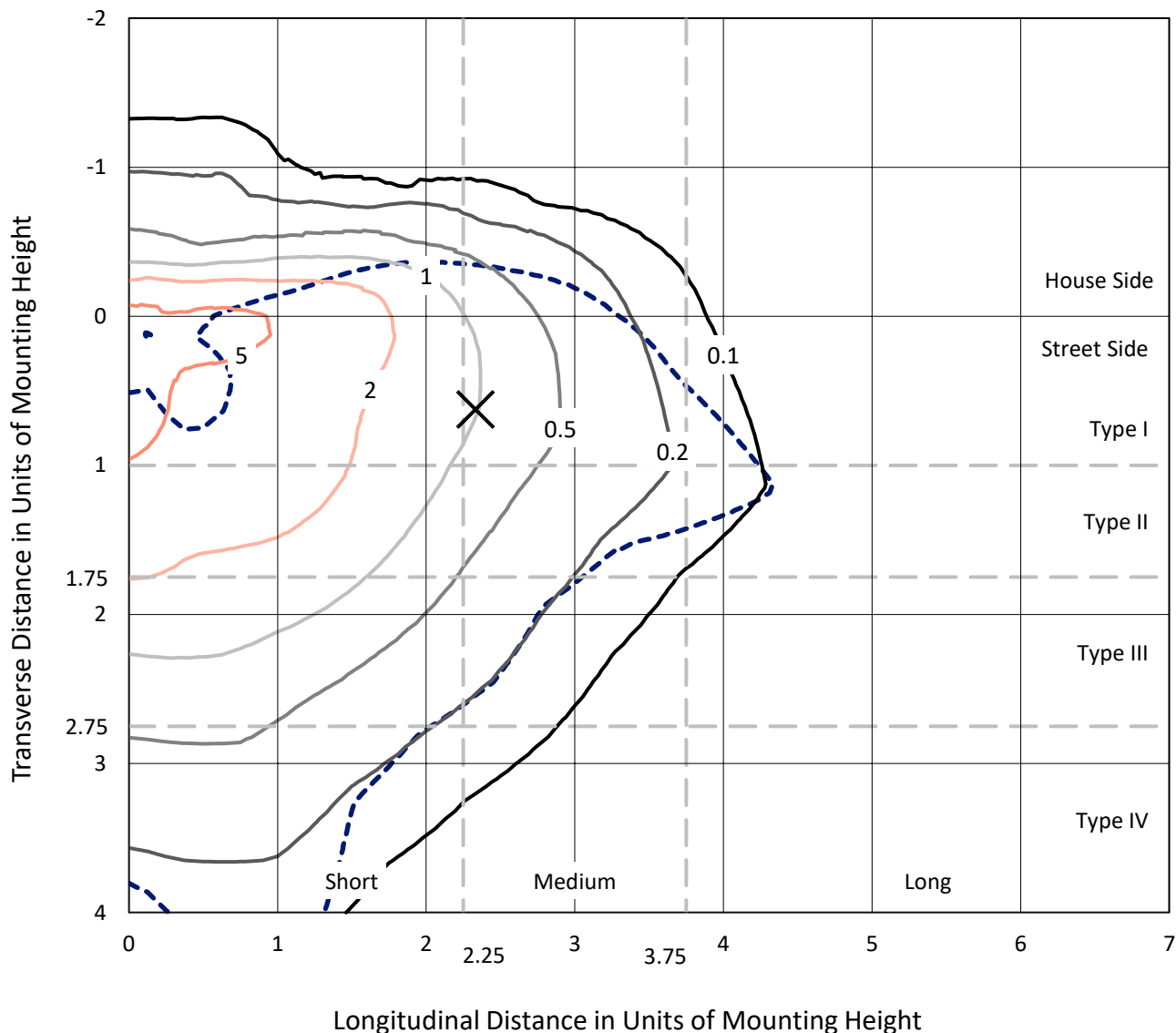
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

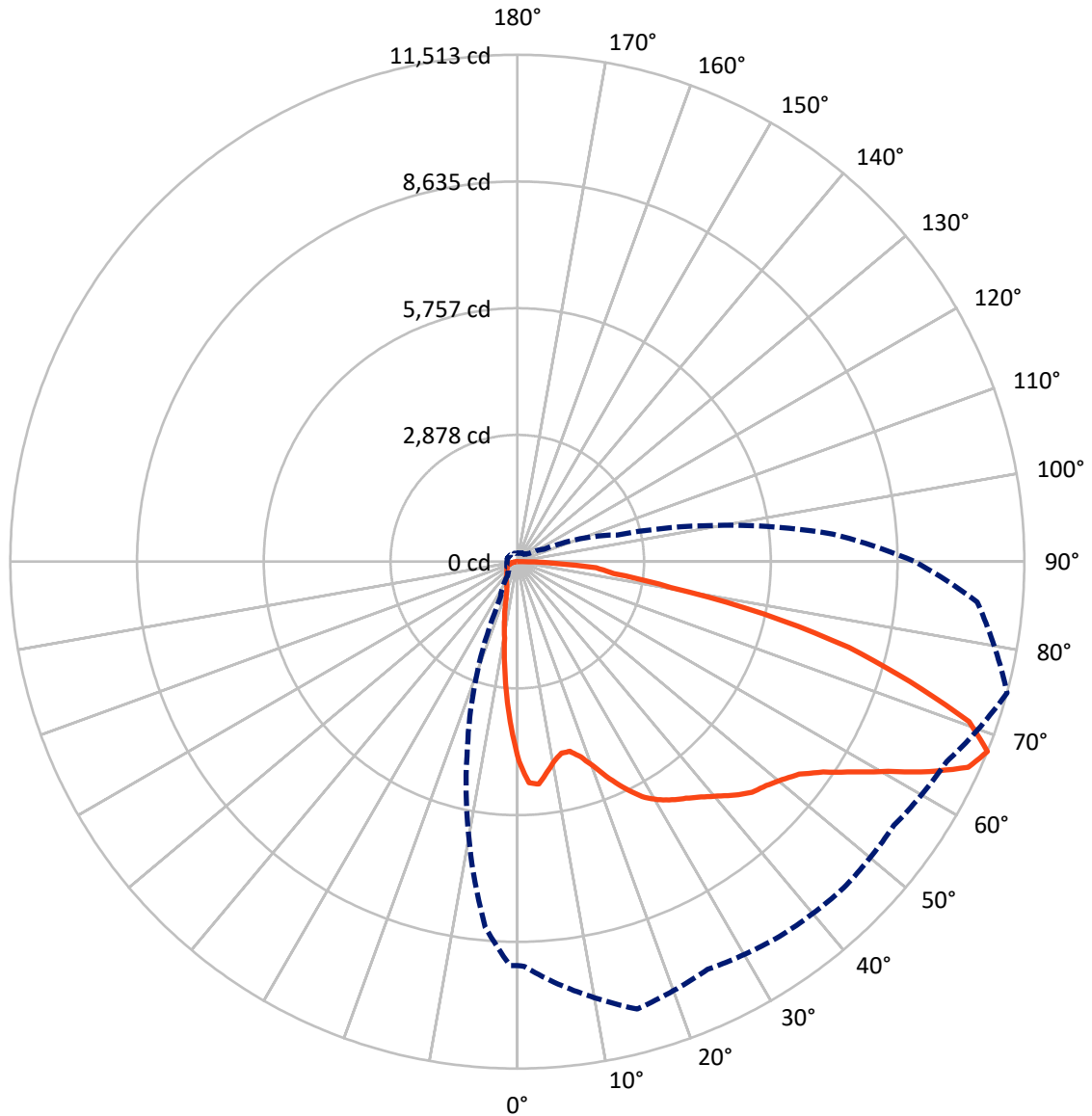
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	2455.4	0.0	2455.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	12071.6	0.0	12071.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	14527.0	0.0	14527.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.2	2.4
10°-20°	717.9	4.9
20°-30°	1033.1	7.1
30°-40°	1487.9	10.2
40°-50°	2090.2	14.4
50°-60°	2915.0	20.1
60°-70°	3465.8	23.9
70°-80°	2041.2	14.1
80°-90°	431.6	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°	14527.0	100.0
0°-180°	14527.0	100.0

Coefficient of Utilization



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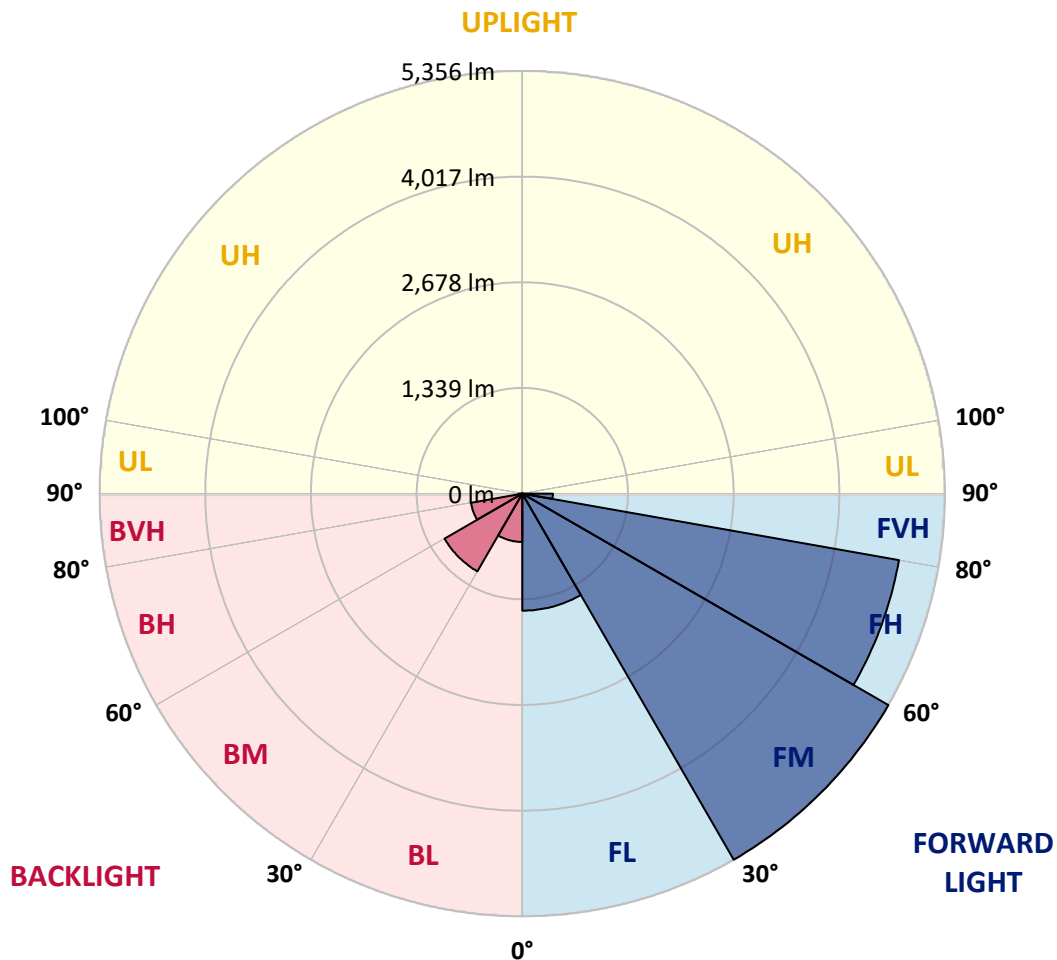
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1482.8	10.2			
FM	(30°-60°)	5355.6	36.9			
FH	(60°-80°)	4846.3	33.4			G2/5000
FVH	(80°-90°)	387.0	2.7			G3/500
BL	(0°-30°)	612.4	4.2	B2/1000		
BM	(30°-60°)	1137.6	7.8	B2/2500		
BH	(60°-80°)	660.7	4.5	B2/1000		G2/1000
BVH	(80°-90°)	44.6	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°	4538.6	4538.6	4538.6	4538.6	4538.6	4538.6	4538.6	4538.6	4538.6	4538.6	4538.6
2.5°	4893.5	4900.0	4941.9	5064.0	5147.8	5178.6	5200.0	5159.9	5120.8	5025.8	4882.3
5°	4878.6	4916.8	5025.8	5299.7	5515.8	5608.9	5636.9	5516.7	5318.3	5074.2	4780.8
7.5°	4593.5	4644.8	4812.5	5271.7	5652.7	5870.7	5841.8	5624.8	5267.1	4832.0	4422.1
10°	4255.4	4312.2	4514.4	5069.6	5560.5	5860.5	5860.5	5595.9	5120.8	4603.8	4131.5
12.5°	3987.1	4046.7	4277.7	4861.8	5368.6	5652.7	5700.2	5472.9	5015.5	4459.4	3940.5
15°	3898.6	3956.4	4205.1	4736.1	5165.5	5338.8	5354.6	5280.1	4964.3	4469.6	3932.1
17.5°	4008.5	4083.0	4334.6	4773.3	4979.2	4989.5	5001.6	5060.3	4969.9	4656.9	4101.7
20°	4326.2	4406.3	4669.0	4893.5	4816.2	4710.0	4716.5	4867.4	5036.0	4966.2	4506.9
22.5°	4784.5	4854.4	5123.6	5105.0	4747.2	4528.3	4482.7	4693.2	5133.8	5351.8	4938.2
25°	5279.2	5361.1	5670.4	5418.9	4766.8	4420.3	4391.4	4590.7	5235.4	5712.3	5436.6
27.5°	5845.6	5925.7	6169.7	5735.6	4869.3	4411.9	4377.4	4581.4	5326.7	6045.8	5912.6
30°	6266.6	6340.2	6506.0	6002.1	4995.0	4467.8	4424.9	4655.0	5404.9	6274.1	6376.6
32.5°	6597.3	6673.7	6764.1	6167.9	5160.9	4569.3	4490.1	4789.2	5507.4	6448.3	6720.3
35°	6942.0	7032.4	7025.9	6315.1	5315.5	4686.7	4609.4	4982.9	5668.6	6600.1	7156.3
37.5°	7378.9	7415.2	7368.7	6447.4	5500.9	4898.2	4855.3	5270.8	5897.7	6783.6	7665.8
40°	7822.3	7895.0	7655.6	6607.6	5726.3	5295.9	5291.3	5696.5	6169.7	6998.8	8159.6
42.5°	8202.4	8263.9	7923.9	6747.3	5999.3	5781.3	5816.7	6267.6	6526.5	7248.5	8556.4
45°	8488.4	8543.4	8171.7	6882.4	6358.9	6342.1	6550.8	6879.6	6976.5	7473.0	8789.3
47.5°	8731.5	8784.6	8344.0	7087.3	6803.2	7011.9	7375.2	7517.7	7361.2	7601.6	9050.1
50°	8936.5	8952.3	8462.3	7331.4	7354.7	7832.6	8184.7	8276.9	7741.3	7786.0	9276.5
52.5°	9149.8	9129.3	8666.3	7638.8	7950.9	8611.4	8867.6	8963.5	8105.5	8013.3	9606.3
55°	9627.7	9647.3	9123.7	8026.4	8553.6	9376.2	9713.4	9621.2	8508.9	8431.6	10025.5
57.5°	10205.3	10188.5	9767.4	8632.8	9167.5	10087.9	10339.4	10191.3	9047.3	9006.4	10450.3
60°	10429.8	10452.1	10305.9	9284.9	9773.0	10711.1	10968.2	10738.1	9692.9	9674.3	10770.7
62.5°	10204.3	10330.1	10428.9	9865.3	10289.1	11169.4	11424.7	11162.0	10366.4	10501.5	10995.2
65°	9755.3	9782.4	10118.6	10357.1	10537.8	11244.9	11378.1	11238.4	10929.1	11255.2	10985.0
67.5°	9172.2	9195.5	9589.5	10518.3	10217.4	10387.9	10481.0	10440.0	10754.9	11513.2	10479.2
70°	8617.0	8598.3	9014.7	10107.5	8894.6	8635.6	8712.9	8584.4	9280.2	10882.5	9487.0
72.5°	7536.4	7603.4	8050.6	8965.4	7042.6	6621.6	6790.2	6457.6	7137.6	9320.3	7700.3
75°	5903.3	5919.2	6665.3	7524.2	5312.7	4648.5	4876.7	4737.9	5467.3	7774.8	5317.4
77.5°	4087.7	4052.3	4854.4	5746.8	3788.7	3403.0	3406.7	3340.6	3817.5	5724.5	3612.6
80°	2596.3	2542.2	3038.8	3550.2	2603.7	2785.4	2694.1	2691.3	2485.4	3531.6	2184.5
82.5°	1402.9	1462.6	1920.0	2225.5	1867.8	2152.8	1973.1	1915.3	1705.7	2210.6	1397.3
85°	639.1	694.9	1023.8	1513.8	1418.8	1434.6	958.6	1130.9	1411.3	1795.1	746.2
87.5°	62.4	80.1	211.5	714.5	484.4	381.9	142.5	274.8	354.9	638.1	59.6
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°	4538.6	4538.6	4538.6	4538.6	4538.6	4538.6	4538.6	4538.6	4538.6	4538.6	4538.6
2.5°	4823.6	4775.2	4610.3	4474.3	4329.9	4220.0	4076.5	3980.6	3914.4	3814.8	3802.6
5°	4601.9	4483.6	4196.7	3904.2	3651.7	3461.7	3268.9	3091.9	2987.5	2954.9	2913.0
7.5°	4228.4	4029.0	3660.1	3324.8	3035.0	2751.8	2533.9	2379.2	2275.8	2215.3	2142.6
10°	3921.0	3689.9	3240.9	2830.1	2591.6	2415.5	2223.6	2057.8	1930.2	1821.2	1761.6
12.5°	3714.1	3453.3	2948.4	2614.9	2430.4	2243.2	2018.7	1832.4	1644.2	1520.3	1467.2
15°	3651.7	3376.0	2858.0	2507.8	2243.2	1998.2	1746.7	1503.5	1317.2	1199.9	1160.7
17.5°	3804.5	3471.0	2857.1	2365.2	2023.4	1730.8	1408.5	1180.3	989.3	901.8	873.8
20°	4089.6	3653.6	2865.5	2224.6	1784.9	1373.1	1024.7	837.5	746.2	708.9	694.9
22.5°	4487.3	3932.1	2890.6	2085.8	1524.0	1054.5	767.6	672.6	640.0	633.5	630.7
25°	4977.3	4276.8	2975.4	1960.9	1304.2	804.9	641.8	599.0	580.4	573.8	572.9
27.5°	5428.2	4722.1	3077.9	1853.8	1091.8	694.0	580.4	544.0	525.4	524.5	526.3
30°	5835.3	5094.7	3163.6	1733.6	930.6	616.7	540.3	504.0	486.3	485.3	490.9
32.5°	6187.4	5401.2	3226.9	1615.3	841.2	569.2	504.0	464.9	449.9	447.2	449.9
35°	6563.8	5706.8	3198.1	1523.1	790.0	530.1	477.0	438.8	421.1	412.7	412.7
37.5°	6993.2	6021.6	3148.7	1446.7	766.7	497.5	453.7	416.4	398.7	390.3	389.4
40°	7461.8	6336.5	3080.7	1378.7	743.4	477.9	437.8	398.7	377.3	368.9	367.0
42.5°	7875.4	6605.7	3024.8	1334.0	705.2	481.6	423.9	385.7	358.7	347.5	346.5
45°	8235.0	6876.8	3014.5	1307.9	673.5	476.0	420.1	375.4	343.7	331.6	329.8
47.5°	8516.4	7159.1	3073.2	1293.0	639.1	446.2	444.4	368.9	330.7	317.7	315.8
50°	8859.2	7559.6	3207.4	1262.3	607.4	418.3	469.5	368.0	320.5	303.7	299.0
52.5°	9315.6	8081.3	3389.0	1207.3	561.7	392.2	448.1	368.0	308.3	291.6	286.0
55°	10005.9	8746.5	3567.0	1130.0	497.5	357.7	404.3	356.8	290.6	275.7	272.0
57.5°	10463.3	9232.7	3680.6	1022.9	417.3	332.6	348.4	339.1	272.9	257.1	257.1
60°	10486.6	9363.1	3626.6	887.8	367.0	309.3	302.8	341.9	257.1	240.3	238.5
62.5°	10218.3	9043.6	3345.2	766.7	340.0	284.1	273.9	300.0	241.3	224.5	221.7
65°	9799.1	8228.5	2857.1	708.9	325.1	261.8	246.9	245.9	224.5	208.7	204.9
67.5°	9028.7	7190.7	2347.5	675.4	317.7	236.6	222.6	218.0	204.9	191.9	190.0
70°	7893.1	6022.6	1882.7	661.4	313.9	210.5	199.4	193.8	182.6	172.3	171.4
72.5°	6140.9	4885.1	1553.8	652.1	312.1	186.3	174.2	166.7	160.2	150.9	150.9
75°	4411.0	3594.0	1185.9	587.8	288.8	160.2	147.2	142.5	133.2	125.8	127.6
77.5°	2780.7	2420.2	780.7	432.2	223.6	128.6	117.4	114.6	107.1	96.9	103.4
80°	1878.0	1702.0	455.5	272.0	140.7	94.1	90.4	89.4	81.0	69.9	70.8
82.5°	1278.1	1253.9	236.6	154.6	81.0	55.0	53.1	55.0	45.6	37.3	37.3
85°	499.3	681.9	111.8	60.6	26.1	8.4	12.1	13.0	7.5	3.7	4.7
87.5°	9.3	69.9	2.8	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°	4538.6	4538.6	4538.6	4538.6	4538.6	4538.6	4538.6	4538.6	4538.6	4538.6	4538.6
2.5°	3784.0	3775.6	3789.6	3730.0	3742.1	3764.4	3775.6	3782.1	3874.4	3852.9	3911.6
5°	2952.1	2943.7	2997.8	3005.2	3033.2	3027.6	3054.6	3061.1	3094.7	3106.8	3188.7
7.5°	2147.3	2183.6	2245.1	2276.7	2324.3	2339.2	2325.2	2359.7	2289.8	2340.1	2355.0
10°	1725.3	1681.5	1655.4	1728.1	1737.4	1806.3	1778.4	1756.0	1797.0	1798.8	1838.0
12.5°	1436.5	1342.4	1280.0	1300.5	1322.8	1352.6	1357.3	1402.0	1431.8	1459.8	1483.0
15°	1126.3	1093.7	1036.8	1008.9	1040.6	1052.7	1081.5	1118.8	1150.5	1158.9	1190.5
17.5°	864.5	870.1	860.8	844.0	863.6	872.9	874.7	875.7	884.1	878.5	925.0
20°	695.9	715.4	738.7	742.5	749.0	753.6	745.3	713.6	714.5	734.1	749.0
22.5°	629.7	633.5	659.5	667.9	688.4	680.0	655.8	640.9	639.1	643.7	651.2
25°	577.6	583.2	601.8	614.8	630.7	615.8	598.1	584.1	582.2	586.9	594.3
27.5°	531.0	539.4	556.1	569.2	584.1	570.1	553.3	541.2	540.3	539.4	544.0
30°	493.7	503.0	515.2	530.1	540.3	528.2	512.4	505.8	504.9	503.0	504.9
32.5°	456.5	471.4	483.5	490.9	501.2	491.9	479.8	476.0	469.5	463.9	461.1
35°	414.5	430.4	449.0	458.3	468.6	459.3	450.9	435.0	423.9	422.9	424.8
37.5°	390.3	396.8	411.8	427.6	437.8	433.2	417.3	401.5	398.7	398.7	400.6
40°	368.9	371.7	378.2	398.7	417.3	403.4	383.8	379.1	379.1	378.2	379.1
42.5°	347.5	350.3	350.3	366.1	395.9	373.6	358.7	358.7	358.7	359.6	362.4
45°	327.9	328.8	327.9	339.1	367.0	348.4	338.2	341.0	342.8	344.7	346.5
47.5°	311.1	312.1	311.1	320.5	334.4	327.0	321.4	325.1	328.8	331.6	333.5
50°	296.2	295.3	297.2	302.8	309.3	311.1	307.4	313.0	314.9	318.6	323.3
52.5°	283.2	282.3	284.1	286.9	296.2	296.2	296.2	300.9	304.6	308.3	314.9
55°	268.3	269.2	272.0	275.7	287.9	286.0	286.9	290.6	294.4	300.0	303.7
57.5°	254.3	256.2	259.9	265.5	277.6	276.7	277.6	279.5	284.1	286.9	290.6
60°	238.5	242.2	246.9	250.6	262.7	261.8	266.4	270.2	272.9	272.9	274.8
62.5°	222.6	228.2	232.9	235.7	248.7	249.7	256.2	259.0	260.8	259.0	261.8
65°	206.8	215.2	217.1	220.8	233.8	234.8	242.2	248.7	246.9	245.0	249.7
67.5°	191.0	201.2	200.3	204.9	218.0	219.8	226.4	237.5	233.8	232.0	235.7
70°	173.3	180.7	181.7	184.4	202.1	199.4	209.6	219.8	217.1	218.0	218.0
72.5°	153.7	160.2	160.2	165.8	184.4	179.8	188.2	199.4	199.4	198.4	198.4
75°	130.4	134.1	137.9	146.3	165.8	160.2	165.8	176.1	177.9	176.1	176.1
77.5°	105.3	110.9	112.7	123.9	137.9	136.9	142.5	147.2	150.9	149.1	149.1
80°	74.5	80.1	87.6	99.7	108.1	110.9	113.7	117.4	119.2	119.2	121.1
82.5°	41.9	50.3	56.8	68.9	72.7	86.6	85.7	88.5	85.7	75.5	83.8
85°	9.3	17.7	25.2	31.7	36.3	50.3	53.1	59.6	49.4	45.6	45.6
87.5°	0.0	0.0	0.0	0.0	0.0	7.5	14.9	20.5	17.7	14.9	14.9
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°	4538.6	4538.6	4538.6	4538.6	4538.6	4538.6	4538.6	4538.6	4538.6	4538.6
2.5°	3961.0	4042.1	4139.9	4308.5	4426.8	4554.4	4683.0	4819.9	4856.2	4893.5
5°	3211.1	3370.4	3457.0	3683.4	3921.0	4222.8	4469.6	4739.8	4852.5	4878.6
7.5°	2432.3	2540.4	2767.7	2996.8	3291.2	3607.9	3986.2	4407.2	4538.6	4593.5
10°	1928.3	2075.5	2274.9	2520.8	2778.9	3119.8	3546.5	4038.3	4224.6	4255.4
12.5°	1641.4	1805.4	2022.4	2282.3	2526.4	2783.5	3213.9	3721.6	3921.0	3987.1
15°	1312.6	1511.0	1761.6	2035.5	2301.0	2582.3	3018.3	3591.2	3821.3	3898.6
17.5°	1031.2	1191.5	1462.6	1759.7	2074.6	2430.4	2977.3	3653.6	3936.8	4008.5
20°	789.0	903.6	1131.8	1445.8	1814.7	2280.5	2987.5	3889.3	4228.4	4326.2
22.5°	681.9	740.6	879.4	1178.4	1591.1	2150.0	3029.4	4212.5	4621.5	4784.5
25°	617.6	648.4	726.6	922.2	1377.8	2023.4	3125.4	4647.6	5171.1	5279.2
27.5°	562.7	585.0	633.5	774.1	1184.0	1906.0	3237.2	5130.1	5684.4	5845.6
30°	510.5	540.3	586.0	687.5	1060.1	1798.8	3377.9	5521.4	6116.6	6266.6
32.5°	470.4	500.2	542.2	626.9	954.9	1686.1	3461.7	5865.1	6469.7	6597.3
35°	437.8	463.0	506.8	578.5	874.7	1600.4	3444.9	6138.1	6811.6	6942.0
37.5°	414.5	436.0	479.8	532.9	814.2	1511.0	3436.5	6498.6	7228.0	7378.9
40°	393.1	415.5	455.5	503.0	753.6	1405.7	3441.2	6856.3	7671.4	7822.3
42.5°	376.4	401.5	434.1	494.7	691.2	1321.0	3441.2	7167.5	8057.1	8202.4
45°	362.4	389.4	421.1	493.7	641.8	1256.7	3417.9	7434.8	8364.5	8488.4
47.5°	350.3	380.1	425.7	477.0	629.7	1210.1	3397.4	7649.1	8615.1	8731.5
50°	341.9	377.3	452.7	457.4	633.5	1196.1	3496.2	7919.2	8835.9	8936.5
52.5°	335.4	378.2	451.8	428.5	626.9	1205.4	3702.0	8341.2	9142.4	9149.8
55°	322.3	377.3	428.5	395.9	599.9	1221.3	3966.6	8954.2	9622.1	9627.7
57.5°	309.3	367.0	397.8	368.0	545.0	1221.3	4285.2	9534.6	10200.6	10205.3
60°	296.2	381.9	349.3	343.7	473.2	1198.9	4621.5	9789.8	10382.3	10429.8
62.5°	283.2	384.7	312.1	322.3	421.1	1144.9	4872.1	9507.5	10136.3	10204.3
65°	268.3	310.2	287.9	300.0	394.1	1054.5	4792.9	8990.5	9674.3	9755.3
67.5°	250.6	262.7	261.8	276.7	384.7	921.3	4375.6	8336.6	9176.8	9172.2
70°	229.2	235.7	238.5	254.3	367.0	817.9	3646.1	7487.9	8512.6	8617.0
72.5°	206.8	212.4	215.2	229.2	349.3	759.2	2830.1	6318.8	7373.3	7536.4
75°	182.6	186.3	190.0	202.1	330.7	672.6	2015.9	4823.6	5647.1	5903.3
77.5°	157.4	157.4	162.1	174.2	278.5	555.2	1352.6	3383.4	3825.9	4087.7
80°	127.6	128.6	126.7	139.7	204.9	380.1	768.5	2260.0	2546.0	2596.3
82.5°	97.8	95.0	96.0	102.5	152.8	259.0	409.9	1403.9	1430.9	1402.9
85°	61.5	61.5	59.6	67.1	97.8	135.1	223.6	859.8	671.7	639.1
87.5°	25.2	20.5	23.3	27.0	46.6	55.0	87.6	177.0	68.0	62.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)