

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: P452523

Luminaire Tested: **GALN-SA3C-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452523
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-SA3C-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA 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: 15129 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

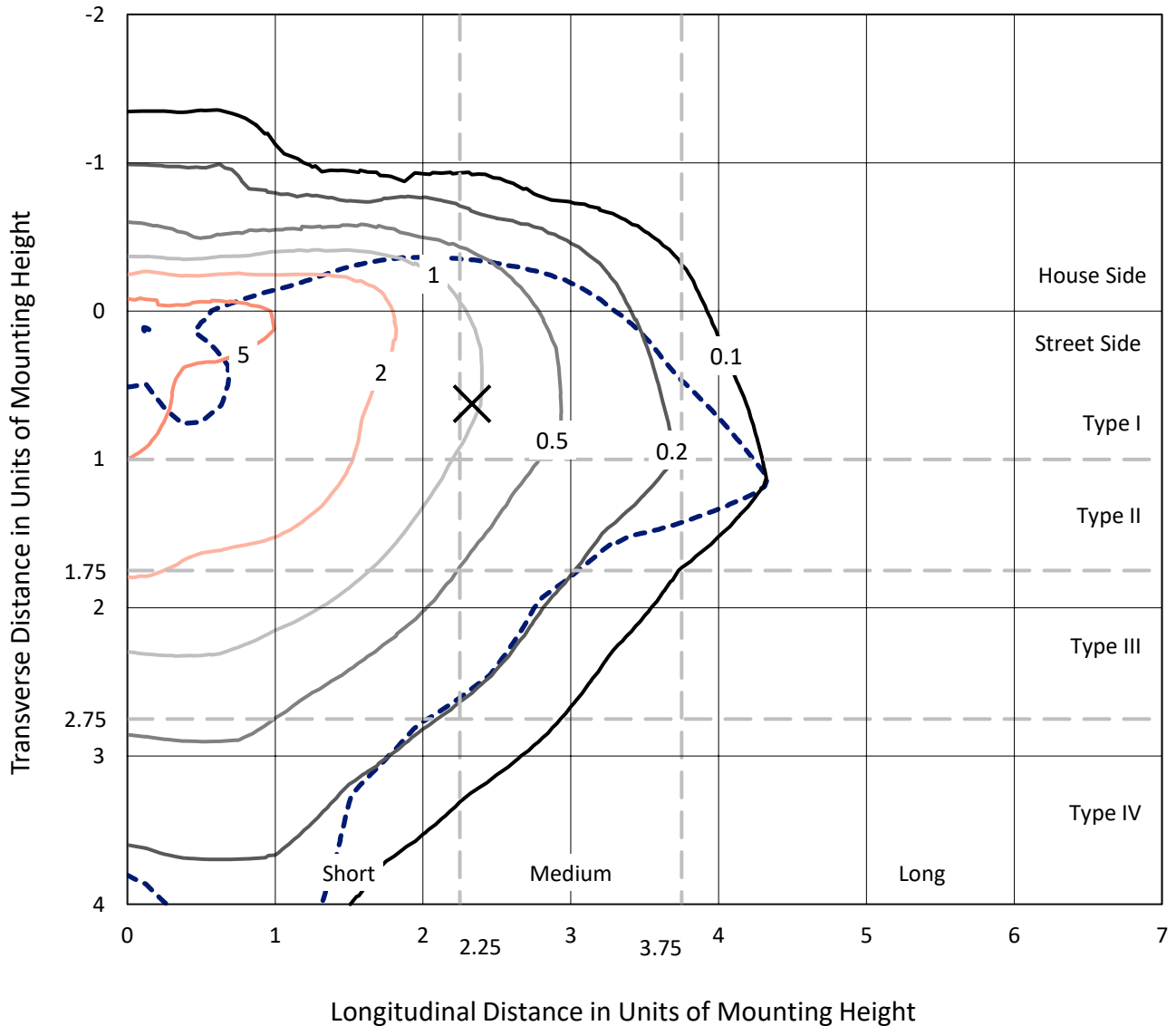
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

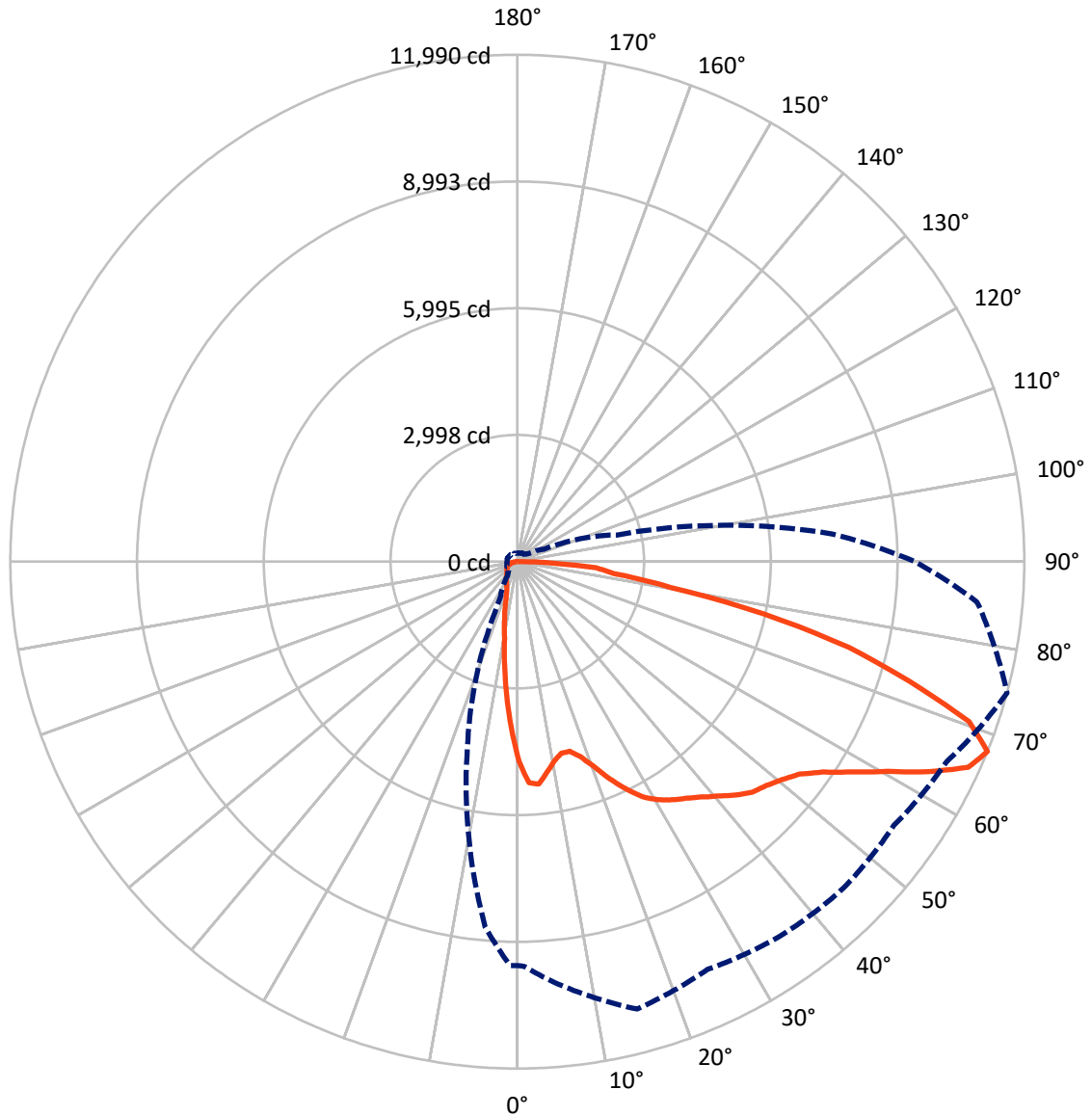
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	2557.1	0.0	2557.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	12571.9	0.0	12571.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	15129.0	0.0	15129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.5	2.4
10°-20°	747.7	4.9
20°-30°	1075.9	7.1
30°-40°	1549.6	10.2
40°-50°	2176.8	14.4
50°-60°	3035.8	20.1
60°-70°	3609.4	23.9
70°-80°	2125.7	14.1
80°-90°	449.5	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°	15129.0	100.0
0°-180°	15129.0	100.0

Coefficient of Utilization



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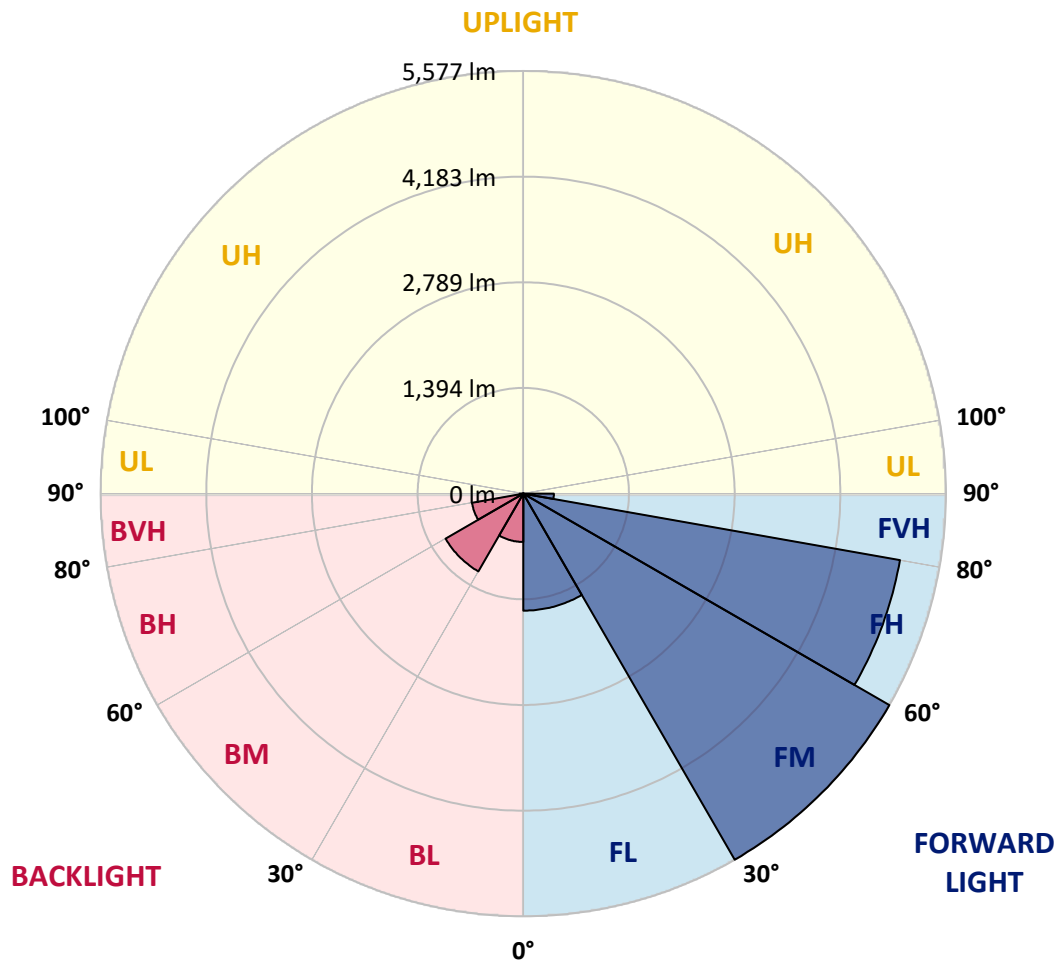
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1544.3	10.2			
FM	(30°-60°)	5577.5	36.9			
FH	(60°-80°)	5047.1	33.4			G3/7500
FVH	(80°-90°)	403.0	2.7			G3/500
BL	(0°-30°)	637.8	4.2	B2/1000		
BM	(30°-60°)	1184.7	7.8	B2/2500		
BH	(60°-80°)	688.1	4.5	B2/1000		G2/1000
BVH	(80°-90°)	46.5	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°	4726.7	4726.7	4726.7	4726.7	4726.7	4726.7	4726.7	4726.7	4726.7	4726.7	4726.7
2.5°	5096.3	5103.1	5146.7	5273.8	5361.1	5393.2	5415.5	5373.8	5333.0	5234.1	5084.6
5°	5080.8	5120.5	5234.1	5519.3	5744.4	5841.4	5870.5	5745.3	5538.7	5284.5	4978.9
7.5°	4783.9	4837.3	5011.9	5490.2	5887.0	6114.0	6083.9	5857.9	5485.3	5032.3	4605.4
10°	4431.7	4490.9	4701.4	5279.7	5790.9	6103.3	6103.3	5827.8	5333.0	4794.6	4302.7
12.5°	4152.3	4214.4	4455.0	5063.3	5591.1	5887.0	5936.5	5699.7	5223.4	4644.2	4103.8
15°	4060.2	4120.3	4379.3	4932.3	5379.6	5560.0	5576.5	5498.9	5170.0	4654.9	4095.1
17.5°	4174.6	4252.2	4514.2	4971.1	5185.5	5196.2	5208.8	5270.0	5175.8	4849.9	4271.6
20°	4505.5	4588.9	4862.5	5096.3	5015.8	4905.2	4912.0	5069.1	5244.7	5172.0	4693.7
22.5°	4982.8	5055.5	5335.9	5316.5	4944.0	4716.0	4668.4	4887.7	5346.6	5573.6	5142.9
25°	5497.9	5583.3	5905.4	5643.5	4964.3	4603.4	4573.4	4781.0	5452.3	5949.1	5661.9
27.5°	6087.8	6171.2	6425.4	5973.3	5071.1	4594.7	4558.8	4771.3	5547.4	6296.4	6157.7
30°	6526.3	6603.0	6775.7	6250.8	5202.0	4652.9	4608.3	4847.9	5628.9	6534.1	6640.8
32.5°	6870.7	6950.3	7044.4	6423.5	5374.7	4758.7	4676.2	4987.6	5735.6	6715.5	6998.8
35°	7229.7	7323.8	7317.0	6576.8	5535.8	4880.9	4800.4	5189.4	5903.5	6873.6	7452.8
37.5°	7684.7	7722.5	7674.0	6714.5	5728.8	5101.1	5056.5	5489.2	6142.1	7064.8	7983.5
40°	8146.5	8222.2	7972.8	6881.4	5963.6	5515.4	5510.6	5932.6	6425.4	7288.9	8497.7
42.5°	8542.3	8606.4	8252.2	7026.9	6247.9	6020.9	6057.7	6527.3	6797.0	7548.9	8911.0
45°	8840.2	8897.4	8510.3	7167.6	6622.4	6604.9	6822.2	7164.7	7265.6	7782.7	9153.5
47.5°	9093.4	9148.7	8689.8	7381.0	7085.1	7302.5	7680.8	7829.3	7666.3	7916.6	9425.2
50°	9306.8	9323.3	8813.0	7635.2	7659.5	8157.2	8523.9	8619.9	8062.1	8108.7	9660.9
52.5°	9529.0	9507.6	9025.5	7955.4	8280.4	8968.2	9235.0	9335.0	8441.4	8345.4	10004.4
55°	10026.7	10047.1	9501.8	8359.0	8908.1	9764.7	10115.9	10019.9	8861.5	8781.0	10440.9
57.5°	10628.2	10610.7	10172.2	8990.5	9547.4	10505.9	10767.9	10613.6	9422.3	9379.6	10883.3
60°	10862.0	10885.3	10733.0	9669.7	10178.0	11155.0	11422.8	11183.1	10094.6	10075.2	11217.1
62.5°	10627.2	10758.2	10861.0	10274.1	10715.5	11632.3	11898.1	11624.6	10796.0	10936.7	11450.9
65°	10159.6	10187.7	10538.0	10786.3	10974.5	11710.9	11849.6	11704.1	11382.0	11721.6	11440.2
67.5°	9552.3	9576.5	9986.9	10954.2	10640.8	10818.3	10915.4	10872.7	11200.6	11990.3	10913.4
70°	8974.1	8954.6	9388.3	10526.3	9263.2	8993.5	9074.0	8940.1	9664.8	11333.5	9880.2
72.5°	7848.7	7918.5	8384.2	9336.9	7334.5	6896.0	7071.6	6725.2	7433.4	9706.5	8019.4
75°	6148.0	6164.4	6941.6	7836.0	5532.9	4841.1	5078.8	4934.3	5693.9	8097.0	5537.7
77.5°	4257.1	4220.2	5055.5	5985.0	3945.7	3544.0	3547.9	3479.0	3975.7	5961.7	3762.3
80°	2703.9	2647.6	3164.7	3697.3	2711.6	2900.8	2805.7	2802.8	2588.4	3677.9	2275.0
82.5°	1461.1	1523.2	1999.5	2317.7	1945.2	2242.1	2054.8	1994.7	1776.4	2302.2	1455.3
85°	665.5	723.7	1066.2	1576.5	1477.6	1494.1	998.3	1177.8	1469.8	1869.5	777.1
87.5°	65.0	83.4	220.2	744.1	504.5	397.8	148.4	286.2	369.6	664.6	62.1
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°	4726.7	4726.7	4726.7	4726.7	4726.7	4726.7	4726.7	4726.7	4726.7	4726.7	4726.7
2.5°	5023.5	4973.1	4801.4	4659.7	4509.3	4394.9	4245.5	4145.5	4076.6	3972.8	3960.2
5°	4792.6	4669.4	4370.6	4066.0	3803.1	3605.1	3404.3	3220.0	3111.3	3077.4	3033.7
7.5°	4403.6	4196.0	3811.8	3462.5	3160.8	2865.9	2638.9	2477.8	2370.1	2307.1	2231.4
10°	4083.4	3842.8	3375.2	2947.4	2699.0	2515.6	2315.8	2143.1	2010.2	1896.7	1834.6
12.5°	3868.1	3596.4	3070.6	2723.3	2531.2	2336.2	2102.4	1908.3	1712.3	1583.3	1528.0
15°	3803.1	3515.9	2976.5	2611.7	2336.2	2081.0	1819.1	1565.9	1371.8	1249.6	1208.8
17.5°	3962.2	3614.8	2975.5	2463.3	2107.2	1802.6	1466.9	1229.2	1030.3	939.1	910.0
20°	4259.0	3805.0	2984.2	2316.8	1858.8	1430.0	1067.2	872.2	777.1	738.3	723.7
22.5°	4673.3	4095.1	3010.4	2172.2	1587.2	1098.2	799.4	700.5	666.5	659.7	656.8
25°	5183.6	4454.0	3098.7	2042.2	1358.2	838.2	668.4	623.8	604.4	597.6	596.7
27.5°	5653.2	4917.8	3205.4	1930.6	1137.0	722.8	604.4	566.6	547.2	546.2	548.1
30°	6077.1	5305.8	3294.7	1805.5	969.2	642.3	562.7	524.9	506.4	505.5	511.3
32.5°	6443.9	5625.0	3360.7	1682.3	876.1	592.8	524.9	484.1	468.6	465.7	468.6
35°	6835.8	5943.2	3330.6	1586.2	822.7	552.0	496.7	456.9	438.5	429.8	429.8
37.5°	7283.0	6271.2	3279.2	1506.7	798.4	518.1	472.5	433.7	415.2	406.5	405.5
40°	7771.0	6599.1	3208.3	1435.8	774.2	497.7	456.0	415.2	392.9	384.2	382.2
42.5°	8201.8	6879.5	3150.1	1389.3	734.4	501.6	441.4	401.6	373.5	361.9	360.9
45°	8576.3	7161.8	3139.5	1362.1	701.4	495.8	437.5	391.0	358.0	345.4	343.4
47.5°	8869.3	7455.7	3200.6	1346.6	665.5	464.7	462.8	384.2	344.4	330.8	328.9
50°	9226.3	7872.9	3340.3	1314.6	632.5	435.6	489.0	383.2	333.7	316.3	311.4
52.5°	9701.7	8416.2	3529.5	1257.3	585.0	408.4	466.7	383.2	321.1	303.7	297.8
55°	10420.6	9108.9	3714.8	1176.8	518.1	372.5	421.1	371.6	302.7	287.2	283.3
57.5°	10896.9	9615.3	3833.1	1065.2	434.6	346.3	362.8	353.1	284.3	267.8	267.8
60°	10921.2	9751.2	3776.9	924.6	382.2	322.1	315.3	356.1	267.8	250.3	248.4
62.5°	10641.8	9418.4	3483.9	798.4	354.1	295.9	285.2	312.4	251.3	233.8	230.9
65°	10205.2	8569.5	2975.5	738.3	338.6	272.6	257.1	256.1	233.8	217.3	213.4
67.5°	9402.9	7488.7	2444.8	703.4	330.8	246.4	231.9	227.0	213.4	199.9	197.9
70°	8220.2	6272.1	1960.7	688.8	326.9	219.3	207.6	201.8	190.2	179.5	178.5
72.5°	6395.3	5087.6	1618.2	679.1	325.0	194.0	181.4	173.7	166.9	157.2	157.2
75°	4593.7	3742.9	1235.0	612.2	300.8	166.9	153.3	148.4	138.7	131.0	132.9
77.5°	2896.0	2520.5	813.0	450.2	232.8	133.9	122.2	119.3	111.6	100.9	107.7
80°	1955.9	1772.5	474.4	283.3	146.5	98.0	94.1	93.1	84.4	72.8	73.7
82.5°	1331.1	1305.8	246.4	161.0	84.4	57.2	55.3	57.2	47.5	38.8	38.8
85°	520.0	710.2	116.4	63.1	27.2	8.7	12.6	13.6	7.8	3.9	4.9
87.5°	9.7	72.8	2.9	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°	4726.7	4726.7	4726.7	4726.7	4726.7	4726.7	4726.7	4726.7	4726.7	4726.7	4726.7
2.5°	3940.8	3932.1	3946.6	3884.6	3897.2	3920.4	3932.1	3938.9	4034.9	4012.6	4073.7
5°	3074.5	3065.7	3122.0	3129.8	3158.9	3153.0	3181.2	3188.0	3222.9	3235.5	3320.9
7.5°	2236.2	2274.1	2338.1	2371.1	2420.6	2436.1	2421.5	2457.4	2384.7	2437.1	2452.6
10°	1796.8	1751.2	1724.0	1799.7	1809.4	1881.2	1852.1	1828.8	1871.5	1873.4	1914.1
12.5°	1496.0	1398.0	1333.0	1354.4	1377.6	1408.7	1413.5	1460.1	1491.1	1520.3	1544.5
15°	1172.9	1139.0	1079.8	1050.7	1083.7	1096.3	1126.4	1165.2	1198.2	1206.9	1239.9
17.5°	900.3	906.1	896.4	879.0	899.3	909.0	911.0	912.0	920.7	914.9	963.4
20°	724.7	745.1	769.3	773.2	780.0	784.9	776.1	743.1	744.1	764.5	780.0
22.5°	655.8	659.7	686.9	695.6	717.0	708.2	683.0	667.5	665.5	670.4	678.1
25°	601.5	607.3	626.7	640.3	656.8	641.3	622.8	608.3	606.4	611.2	619.0
27.5°	553.0	561.7	579.2	592.8	608.3	593.7	576.3	563.7	562.7	561.7	566.6
30°	514.2	523.9	536.5	552.0	562.7	550.1	533.6	526.8	525.8	523.9	525.8
32.5°	475.4	490.9	503.5	511.3	522.0	512.2	499.6	495.8	489.0	483.1	480.2
35°	431.7	448.2	467.6	477.3	488.0	478.3	469.6	453.1	441.4	440.5	442.4
37.5°	406.5	413.3	428.8	445.3	456.0	451.1	434.6	418.1	415.2	415.2	417.2
40°	384.2	387.1	393.9	415.2	434.6	420.1	399.7	394.9	394.9	393.9	394.9
42.5°	361.9	364.8	364.8	381.3	412.3	389.0	373.5	373.5	373.5	374.5	377.4
45°	341.5	342.5	341.5	353.1	382.2	362.8	352.2	355.1	357.0	359.0	360.9
47.5°	324.0	325.0	324.0	333.7	348.3	340.5	334.7	338.6	342.5	345.4	347.3
50°	308.5	307.5	309.5	315.3	322.1	324.0	320.2	326.0	327.9	331.8	336.6
52.5°	294.9	294.0	295.9	298.8	308.5	308.5	308.5	313.4	317.2	321.1	327.9
55°	279.4	280.4	283.3	287.2	299.8	297.8	298.8	302.7	306.6	312.4	316.3
57.5°	264.9	266.8	270.7	276.5	289.1	288.1	289.1	291.1	295.9	298.8	302.7
60°	248.4	252.2	257.1	261.0	273.6	272.6	277.5	281.3	284.3	284.3	286.2
62.5°	231.9	237.7	242.5	245.5	259.0	260.0	266.8	269.7	271.6	269.7	272.6
65°	215.4	224.1	226.0	229.9	243.5	244.5	252.2	259.0	257.1	255.2	260.0
67.5°	198.9	209.6	208.6	213.4	227.0	229.0	235.8	247.4	243.5	241.6	245.5
70°	180.5	188.2	189.2	192.1	210.5	207.6	218.3	229.0	226.0	227.0	227.0
72.5°	160.1	166.9	166.9	172.7	192.1	187.2	196.0	207.6	207.6	206.6	206.6
75°	135.8	139.7	143.6	152.3	172.7	166.9	172.7	183.4	185.3	183.4	183.4
77.5°	109.6	115.4	117.4	129.0	143.6	142.6	148.4	153.3	157.2	155.2	155.2
80°	77.6	83.4	91.2	103.8	112.5	115.4	118.4	122.2	124.2	124.2	126.1
82.5°	43.7	52.4	59.2	71.8	75.7	90.2	89.3	92.2	89.3	78.6	87.3
85°	9.7	18.4	26.2	33.0	37.8	52.4	55.3	62.1	51.4	47.5	47.5
87.5°	0.0	0.0	0.0	0.0	0.0	7.8	15.5	21.3	18.4	15.5	15.5
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°	4726.7	4726.7	4726.7	4726.7	4726.7	4726.7	4726.7	4726.7	4726.7	4726.7
2.5°	4125.2	4209.6	4311.4	4487.0	4610.2	4743.2	4877.0	5019.6	5057.5	5096.3
5°	3344.2	3510.1	3600.3	3836.0	4083.4	4397.8	4654.9	4936.2	5053.6	5080.8
7.5°	2533.1	2645.6	2882.4	3121.0	3427.6	3757.5	4151.3	4589.9	4726.7	4783.9
10°	2008.2	2161.5	2369.1	2625.3	2894.0	3249.1	3693.4	4205.7	4399.7	4431.7
12.5°	1709.4	1880.2	2106.2	2376.9	2631.1	2898.9	3347.1	3875.8	4083.4	4152.3
15°	1367.0	1573.6	1834.6	2119.8	2396.3	2689.3	3143.3	3740.0	3979.6	4060.2
17.5°	1074.0	1240.8	1523.2	1832.6	2160.6	2531.2	3100.7	3805.0	4099.9	4174.6
20°	821.7	941.1	1178.8	1505.7	1889.9	2375.0	3111.3	4050.5	4403.6	4505.5
22.5°	710.2	771.3	915.8	1227.3	1657.0	2239.1	3155.0	4387.1	4813.0	4982.8
25°	643.2	675.2	756.7	960.5	1434.9	2107.2	3254.9	4840.2	5385.4	5497.9
27.5°	586.0	609.3	659.7	806.2	1233.1	1985.0	3371.3	5342.7	5920.0	6087.8
30°	531.7	562.7	610.2	716.0	1104.1	1873.4	3517.8	5750.2	6370.1	6526.3
32.5°	489.9	521.0	564.6	652.9	994.4	1756.0	3605.1	6108.2	6737.8	6870.7
35°	456.0	482.2	527.8	602.5	911.0	1666.7	3587.7	6392.4	7093.9	7229.7
37.5°	431.7	454.0	499.6	554.9	847.9	1573.6	3578.9	6767.9	7527.5	7684.7
40°	409.4	432.7	474.4	523.9	784.9	1464.0	3583.8	7140.4	7989.3	8146.5
42.5°	391.9	418.1	452.1	515.2	719.9	1375.7	3583.8	7464.5	8391.0	8542.3
45°	377.4	405.5	438.5	514.2	668.4	1308.8	3559.5	7742.9	8711.1	8840.2
47.5°	364.8	395.8	443.4	496.7	655.8	1260.2	3538.2	7966.0	8972.1	9093.4
50°	356.1	392.9	471.5	476.4	659.7	1245.7	3641.0	8247.4	9202.0	9306.8
52.5°	349.3	393.9	470.5	446.3	652.9	1255.4	3855.4	8686.9	9521.2	9529.0
55°	335.7	392.9	446.3	412.3	624.8	1271.9	4131.0	9325.3	10020.9	10026.7
57.5°	322.1	382.2	414.3	383.2	567.5	1271.9	4462.8	9929.7	10623.3	10628.2
60°	308.5	397.8	363.8	358.0	492.8	1248.6	4813.0	10195.5	10812.5	10862.0
62.5°	294.9	400.7	325.0	335.7	438.5	1192.3	5074.0	9901.5	10556.4	10627.2
65°	279.4	323.1	299.8	312.4	410.4	1098.2	4991.5	9363.1	10075.2	10159.6
67.5°	261.0	273.6	272.6	288.1	400.7	959.5	4556.9	8682.0	9557.1	9552.3
70°	238.7	245.5	248.4	264.9	382.2	851.8	3797.2	7798.2	8865.4	8974.1
72.5°	215.4	221.2	224.1	238.7	363.8	790.7	2947.4	6580.6	7678.9	7848.7
75°	190.2	194.0	197.9	210.5	344.4	700.5	2099.4	5023.5	5881.2	6148.0
77.5°	164.0	164.0	168.8	181.4	290.1	578.2	1408.7	3523.6	3984.5	4257.1
80°	132.9	133.9	131.9	145.5	213.4	395.8	800.4	2353.6	2651.5	2703.9
82.5°	101.9	99.0	99.9	106.7	159.1	269.7	426.9	1462.0	1490.2	1461.1
85°	64.0	64.0	62.1	69.9	101.9	140.7	232.8	895.5	699.5	665.5
87.5°	26.2	21.3	24.3	28.1	48.5	57.2	91.2	184.3	70.8	65.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)