

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: P458873

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458873
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-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 12103 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

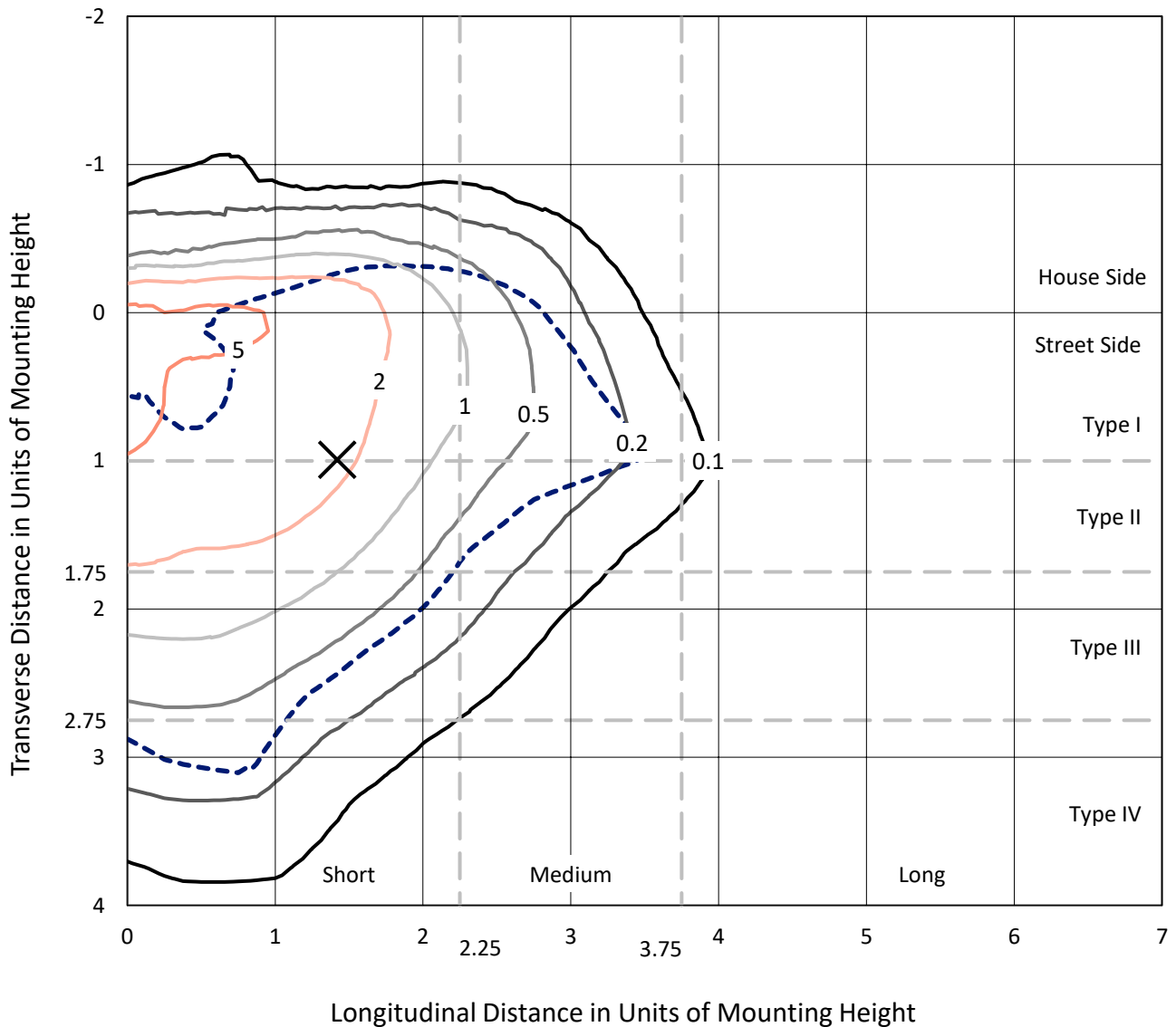
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

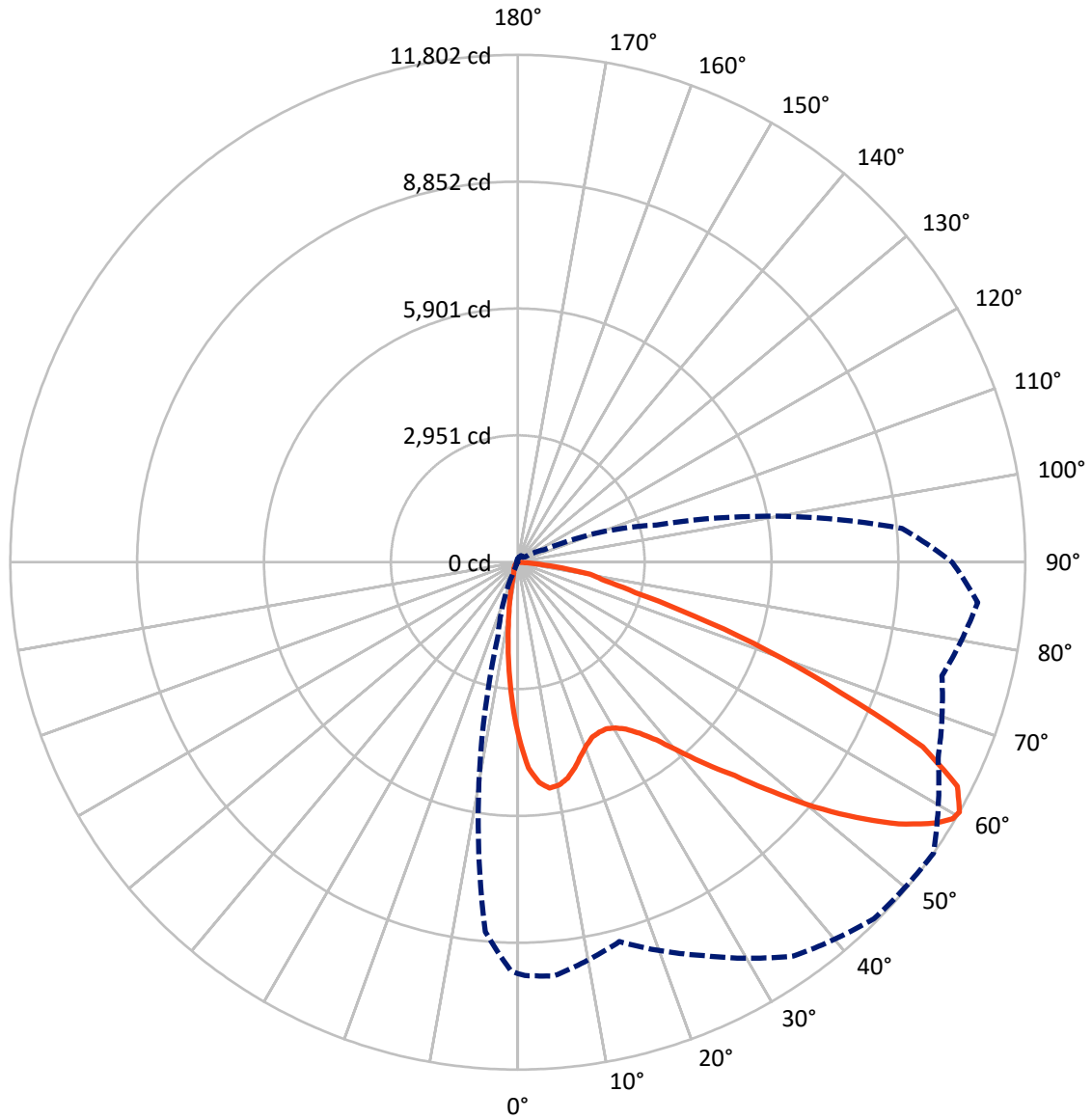
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	1796.2	0.0	1796.2
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	10306.8	0.0	10306.8
	% Fixture	85.2	0.0	85.2
Total	Lumens	12103.0	0.0	12103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.5	2.5
10°-20°	597.6	4.9
20°-30°	884.5	7.3
30°-40°	1318.5	10.9
40°-50°	1931.0	16.0
50°-60°	2787.7	23.0
60°-70°	2932.5	24.2
70°-80°	1206.4	10.0
80°-90°	141.3	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°	12103.0	100.0
0°-180°	12103.0	100.0

Coefficient of Utilization



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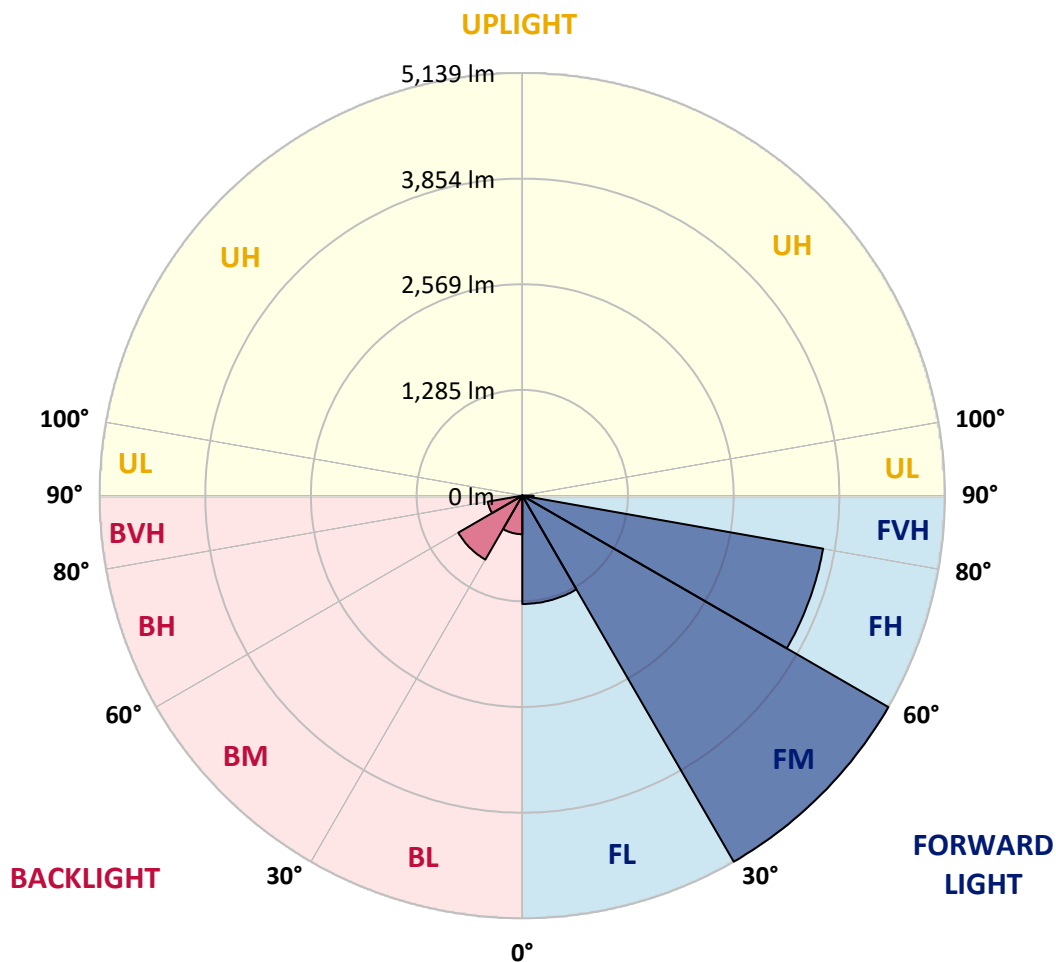
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1317.0	10.9			
FM (30°-60°)	5139.0	42.5			
FH (60°-80°)	3713.8	30.7			G2/5000
FVH (80°-90°)	137.1	1.1			G2/225
BL (0°-30°)	468.6	3.9	B1/500		
BM (30°-60°)	898.3	7.4	B1/1000		
BH (60°-80°)	425.1	3.5	B1/500		G1/500
BVH (80°-90°)	4.2	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°	4098.0	4098.0	4098.0	4098.0	4098.0	4098.0	4098.0	4098.0	4098.0	4098.0	4098.0
2.5°	4477.2	4469.7	4535.9	4644.0	4752.9	4809.8	4798.6	4793.9	4703.6	4637.4	4498.6
5°	4467.9	4506.1	4624.4	4916.9	5138.6	5245.8	5277.4	5144.2	4968.1	4712.9	4398.0
7.5°	4200.5	4248.0	4440.9	4898.3	5292.3	5525.2	5516.8	5303.5	4940.2	4545.2	4096.2
10°	3868.9	3924.8	4151.1	4706.4	5217.8	5525.2	5542.0	5271.8	4820.0	4313.2	3840.9
12.5°	3635.0	3701.2	3951.8	4527.5	5025.9	5328.7	5348.2	5152.6	4729.7	4223.8	3702.1
15°	3555.9	3618.3	3872.6	4437.1	4821.9	4984.9	4980.3	4959.8	4694.3	4245.2	3709.6
17.5°	3691.9	3743.1	4030.0	4478.1	4630.9	4614.1	4638.4	4737.1	4701.7	4425.0	3944.3
20°	4043.1	4095.2	4403.6	4603.9	4484.7	4378.4	4389.6	4554.5	4770.6	4763.2	4311.4
22.5°	4526.6	4615.1	4894.5	4848.0	4465.1	4232.2	4208.9	4423.2	4888.0	5152.6	4807.0
25°	5138.6	5228.1	5446.0	5237.4	4561.0	4197.7	4176.3	4383.1	5030.6	5532.7	5365.0
27.5°	5652.9	5720.9	5937.9	5616.5	4702.6	4212.6	4177.2	4388.7	5146.1	5855.9	5835.4
30°	6064.6	6114.9	6242.6	5793.5	4824.7	4277.8	4236.8	4470.7	5197.3	6013.4	6216.5
32.5°	6396.3	6481.0	6521.1	5982.6	4999.8	4400.8	4330.9	4628.1	5322.1	6208.1	6616.1
35°	6775.4	6873.2	6822.0	6163.4	5230.8	4592.7	4507.0	4883.4	5511.3	6387.9	7080.0
37.5°	7256.1	7368.8	7168.5	6353.4	5474.9	4881.5	4841.4	5242.0	5798.2	6645.0	7577.5
40°	7753.6	7818.8	7504.8	6584.4	5774.9	5301.7	5339.8	5774.9	6173.6	6953.4	8106.7
42.5°	8142.1	8203.5	7850.5	6778.2	6081.4	5800.0	5959.3	6417.7	6604.0	7269.2	8501.6
45°	8439.2	8491.4	8089.9	6989.7	6495.0	6522.0	6822.9	7080.0	7035.3	7462.0	8806.3
47.5°	8670.3	8715.0	8274.3	7217.0	7114.5	7405.2	7865.4	7974.4	7482.5	7670.7	9082.0
50°	8765.3	8778.3	8332.1	7506.7	7817.9	8530.5	9010.3	8944.1	7994.9	7902.6	9375.5
52.5°	8889.2	8886.4	8497.0	7782.5	8479.3	9536.6	10015.5	9865.5	8574.3	8250.1	9705.3
55°	9214.3	9218.0	8850.1	8173.7	9042.9	10349.0	10861.3	10752.4	9185.4	8837.0	10090.0
57.5°	9609.3	9623.3	9352.2	8631.1	9581.4	10937.7	11493.0	11451.0	10011.7	9490.1	10453.3
59°	9660.5	9688.5	9589.7	8953.5	9900.9	11118.5	11709.1	11750.1	10454.2	9920.4	10649.9
60°	9567.4	9614.0	9658.7	9136.1	10088.1	11183.7	11722.1	11802.3	10786.8	10213.0	10739.3
62.5°	9161.2	9234.8	9459.3	9697.8	10322.0	10980.6	11305.7	11473.4	11198.6	10981.5	10747.7
65°	8629.3	8667.5	8991.7	9797.5	9868.3	10032.2	10132.8	10348.0	10703.9	11277.8	10363.0
67.5°	7757.3	7870.0	8266.9	9219.0	8529.6	8335.8	8310.7	8096.4	9020.5	10571.6	9414.6
70°	6408.4	6458.7	6947.8	7557.9	6437.3	6139.1	6258.4	6178.3	6992.5	9100.7	7577.5
72.5°	4846.1	4959.8	5437.7	6024.6	4380.3	3993.7	4322.6	4292.7	5252.3	7313.9	5205.7
75°	3447.8	3521.4	4130.6	4714.8	3067.7	2599.1	2717.4	2828.3	3666.7	5774.9	3076.1
77.5°	2369.0	2432.4	2889.8	3118.0	2237.7	2143.6	1961.0	2068.1	2402.6	3426.4	1674.1
80°	1429.1	1426.3	1727.2	1783.1	1558.5	1810.1	1518.5	1704.8	1452.3	1466.3	648.4
82.5°	927.9	918.5	1056.4	1151.4	867.3	912.0	612.1	882.2	946.5	409.0	204.9
85°	415.5	433.2	507.7	669.8	380.1	202.2	124.8	271.1	403.4	205.9	0.0
87.5°	42.9	33.5	89.4	163.0	52.2	5.6	18.6	9.3	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°	4098.0	4098.0	4098.0	4098.0	4098.0	4098.0	4098.0	4098.0	4098.0	4098.0	4098.0
2.5°	4434.3	4380.3	4219.1	4068.2	3938.7	3780.4	3677.9	3516.7	3418.9	3389.1	3393.8
5°	4256.4	4100.8	3794.3	3549.3	3276.4	3120.8	2884.2	2656.9	2533.9	2488.3	2467.8
7.5°	3883.8	3717.0	3347.2	2962.4	2669.9	2397.0	2220.9	2020.6	1883.7	1770.9	1751.4
10°	3607.1	3388.2	2929.8	2516.2	2285.2	2080.2	1904.2	1703.9	1542.7	1414.1	1378.7
12.5°	3441.3	3196.3	2684.8	2338.3	2119.4	1908.8	1679.6	1447.7	1282.8	1144.0	1079.7
15°	3411.5	3127.3	2615.9	2210.7	1940.5	1686.2	1381.5	1130.9	961.4	830.0	790.0
17.5°	3591.3	3251.2	2605.6	2077.4	1706.7	1346.1	1029.4	821.7	630.7	557.1	528.2
20°	3911.7	3470.2	2604.7	1922.8	1466.3	1036.9	722.9	535.7	458.3	422.9	406.2
22.5°	4348.6	3768.3	2654.1	1789.6	1216.6	764.8	516.1	426.7	381.9	353.1	346.5
25°	4882.4	4209.8	2775.2	1699.2	1025.7	599.9	425.7	365.2	327.9	314.9	309.3
27.5°	5356.6	4632.8	2908.4	1606.1	888.7	531.0	395.0	334.4	304.6	294.4	286.0
30°	5765.6	5016.6	2972.7	1483.1	778.8	486.3	400.6	357.7	318.6	287.9	273.9
32.5°	6106.5	5311.0	3014.6	1371.3	685.6	397.8	316.7	276.7	259.0	247.8	238.5
35°	6533.2	5629.6	2989.5	1307.9	638.1	362.4	288.8	238.5	208.7	186.3	177.0
37.5°	6980.4	5948.2	2945.7	1255.8	616.7	336.3	274.8	226.4	193.8	170.5	158.4
40°	7443.4	6243.5	2894.4	1207.3	597.1	319.5	266.4	216.1	183.5	158.4	145.3
42.5°	7867.2	6531.3	2873.9	1175.7	565.5	322.3	259.9	211.5	173.3	147.2	136.0
45°	8210.1	6804.3	2901.9	1158.9	531.0	317.7	261.8	205.9	164.9	139.7	128.6
47.5°	8576.2	7190.0	2992.3	1142.1	497.5	295.3	275.7	204.9	161.2	135.1	123.0
50°	9001.9	7683.7	3199.1	1101.1	456.5	271.1	293.4	204.0	156.5	129.5	117.4
52.5°	9569.2	8244.5	3412.4	1029.4	396.9	247.8	280.4	201.2	147.2	123.0	110.9
55°	10078.8	8835.2	3593.1	944.6	321.4	214.3	252.5	189.1	131.4	111.8	100.6
57.5°	10289.4	9168.7	3587.5	827.2	257.1	188.2	207.7	173.3	114.6	98.7	89.4
59°	10212.0	9126.7	3467.4	740.6	234.8	174.2	172.3	171.4	107.1	89.4	82.0
60°	10103.0	8974.0	3337.9	697.8	220.8	164.9	158.4	169.5	100.6	83.8	76.4
62.5°	9685.7	8340.5	2908.4	625.1	202.2	139.7	126.7	143.5	89.4	72.7	66.1
65°	9081.1	7367.0	2462.2	604.6	196.6	115.5	105.3	102.5	76.4	61.5	55.9
67.5°	7901.7	6234.2	1994.5	590.6	198.4	96.9	92.2	77.3	63.3	51.2	47.5
70°	6326.4	4861.0	1633.1	574.8	200.3	79.2	77.3	61.5	51.2	42.9	39.1
72.5°	3843.7	2881.4	1285.6	499.3	194.7	63.3	68.9	46.6	37.3	30.7	28.9
75°	2376.5	1972.2	797.4	388.5	128.6	46.6	48.4	28.9	25.2	19.6	19.6
77.5°	1376.9	1245.5	285.1	139.7	56.8	27.9	21.4	14.9	14.0	8.4	8.4
80°	571.1	457.4	98.7	47.5	30.7	13.0	4.7	0.9	0.0	0.0	0.0
82.5°	166.8	148.1	27.0	21.4	9.3	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°	4098.0	4098.0	4098.0	4098.0	4098.0	4098.0	4098.0	4098.0	4098.0	4098.0	4098.0
2.5°	3314.6	3283.8	3269.9	3317.4	3273.6	3329.5	3286.6	3305.3	3360.2	3384.4	3446.9
5°	2480.8	2449.1	2434.2	2506.0	2502.2	2537.6	2533.9	2566.5	2594.5	2532.0	2596.3
7.5°	1728.1	1706.7	1742.1	1798.0	1857.6	1838.0	1838.0	1794.2	1809.1	1799.8	1797.0
10°	1314.5	1240.9	1222.2	1220.4	1242.7	1247.4	1222.2	1161.7	1184.0	1190.6	1229.7
12.5°	1034.1	977.2	890.6	851.5	841.2	849.6	766.7	713.6	738.7	723.8	762.0
15°	741.5	695.0	643.7	599.9	587.8	571.1	480.7	417.4	409.9	412.7	419.2
17.5°	529.1	497.5	497.5	450.9	425.7	375.4	329.8	301.8	299.0	301.8	306.5
20°	390.3	373.6	371.7	359.6	331.6	298.1	266.4	260.8	259.0	263.6	265.5
22.5°	336.3	318.6	303.7	302.8	276.7	248.7	233.8	226.4	227.3	229.2	233.8
25°	300.9	282.3	266.4	257.1	238.5	218.9	204.9	201.2	201.2	204.0	204.9
27.5°	275.7	252.5	238.5	225.4	208.7	191.9	179.8	177.0	175.1	177.0	181.7
30°	258.0	234.8	217.1	197.5	184.5	168.6	158.4	154.6	153.7	154.6	158.4
32.5°	220.8	206.8	192.8	175.1	159.3	149.1	137.9	131.4	131.4	133.2	136.9
35°	166.8	159.3	158.4	153.7	140.7	129.5	116.4	109.9	109.9	113.7	115.5
37.5°	147.2	133.2	131.4	129.5	123.9	109.0	96.9	91.3	90.4	93.2	96.9
40°	134.1	118.3	109.9	108.1	109.0	92.2	79.2	73.6	73.6	74.5	78.3
42.5°	123.9	105.3	90.4	88.5	92.2	77.3	64.3	58.7	58.7	58.7	63.3
45°	115.5	94.1	76.4	67.1	72.7	63.3	52.2	46.6	44.7	46.6	48.4
47.5°	109.9	85.7	67.1	54.0	54.0	50.3	41.9	35.4	33.5	34.5	37.3
50°	105.3	78.3	56.8	43.8	39.1	40.1	31.7	27.0	25.2	25.2	27.9
52.5°	97.8	70.8	49.4	37.3	29.8	27.0	23.3	19.6	18.6	19.6	21.4
55°	88.5	64.3	42.9	30.7	23.3	18.6	16.8	14.0	13.0	14.0	16.8
57.5°	78.3	54.0	34.5	24.2	15.8	12.1	11.2	9.3	7.5	8.4	10.2
59°	71.7	48.4	29.8	19.6	12.1	8.4	8.4	6.5	4.7	5.6	8.4
60°	68.9	44.7	25.2	16.8	10.2	6.5	6.5	4.7	2.8	3.7	6.5
62.5°	58.7	37.3	19.6	10.2	4.7	0.9	2.8	0.9	0.0	0.9	2.8
65°	49.4	29.8	13.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.9
67.5°	41.0	22.4	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	32.6	14.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	22.4	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	14.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.6	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°	4098.0	4098.0	4098.0	4098.0	4098.0	4098.0	4098.0	4098.0	4098.0	4098.0
2.5°	3450.6	3583.8	3665.8	3820.4	3978.8	4100.8	4253.6	4390.6	4447.4	4477.2
5°	2661.5	2846.9	3004.4	3240.1	3459.0	3725.4	3995.6	4314.2	4436.2	4467.9
7.5°	1867.8	2056.9	2221.8	2494.8	2806.9	3163.7	3568.0	3972.3	4150.2	4200.5
10°	1348.9	1551.1	1752.3	2025.3	2316.9	2703.5	3124.5	3624.8	3829.7	3868.9
12.5°	851.5	1068.5	1395.5	1732.7	2041.1	2352.3	2792.9	3336.9	3563.3	3635.0
15°	493.7	655.8	902.7	1342.4	1734.6	2146.4	2627.1	3228.9	3482.3	3555.9
17.5°	330.7	386.6	556.2	892.5	1410.4	1956.3	2585.1	3317.4	3597.8	3691.9
20°	278.5	303.7	363.3	544.0	1086.2	1786.8	2596.3	3557.7	3925.7	4043.1
22.5°	245.0	268.3	306.5	391.3	758.3	1576.2	2649.4	3901.5	4376.6	4526.6
25°	216.1	239.4	273.0	324.2	509.6	1333.1	2765.9	4404.5	4973.7	5138.6
27.5°	191.9	213.3	242.2	286.0	392.2	1062.0	2869.3	4894.5	5518.7	5652.9
30°	169.5	187.2	215.2	248.7	326.1	818.9	2921.5	5323.1	5915.6	6064.6
32.5°	147.2	164.0	191.0	218.0	268.3	624.2	2885.1	5638.0	6301.2	6396.3
35°	125.8	143.5	165.8	191.0	232.0	504.0	2703.5	5992.0	6700.9	6775.4
37.5°	108.1	123.0	146.3	165.8	209.6	403.4	2483.6	6310.6	7149.0	7256.1
40°	91.3	106.2	129.5	147.2	192.8	317.7	2285.2	6664.6	7621.3	7753.6
42.5°	74.5	92.2	112.7	141.6	165.8	242.2	2044.8	6951.5	7976.2	8142.1
45°	59.6	79.2	101.5	140.7	144.4	184.5	1812.9	7175.1	8290.2	8439.2
47.5°	47.5	67.1	97.8	131.4	118.3	146.3	1680.6	7408.9	8551.0	8670.3
50°	38.2	55.9	102.5	115.5	98.7	123.9	1676.9	7669.7	8686.1	8765.3
52.5°	30.7	45.6	86.6	88.5	83.8	109.0	1777.5	7963.2	8824.0	8889.2
55°	26.1	38.2	56.8	65.2	75.5	98.7	1852.9	8415.0	9152.8	9214.3
57.5°	20.5	32.6	43.8	52.2	67.1	90.4	1863.2	8763.4	9569.2	9609.3
59°	17.7	27.9	39.1	46.6	61.5	84.8	1821.2	8784.8	9596.3	9660.5
60°	14.9	25.2	34.5	43.8	56.8	80.1	1775.6	8629.3	9495.6	9567.4
62.5°	11.2	19.6	25.2	35.4	46.6	68.9	1559.5	8086.2	9110.9	9161.2
65°	7.5	14.0	18.6	26.1	36.3	59.6	1270.7	7381.9	8516.5	8629.3
67.5°	4.7	10.2	14.9	19.6	29.8	50.3	905.5	6330.1	7684.6	7757.3
70°	2.8	6.5	11.2	15.8	23.3	40.1	537.5	5003.5	6393.5	6408.4
72.5°	1.9	4.7	7.5	11.2	18.6	36.3	260.8	3261.5	4668.2	4846.1
75°	0.9	2.8	4.7	8.4	14.9	29.8	124.8	2179.0	3396.6	3447.8
77.5°	0.0	0.9	2.8	5.6	11.2	23.3	72.7	1430.9	2315.9	2369.0
80°	0.0	0.0	1.9	4.7	8.4	14.9	43.8	844.0	1403.0	1429.1
82.5°	0.0	0.0	0.9	3.7	5.6	11.2	22.4	370.8	918.5	927.9
85°	0.0	0.0	0.9	3.7	4.7	7.5	8.4	50.3	408.0	415.5
87.5°	0.0	0.0	0.9	4.7	4.7	4.7	4.7	2.8	34.5	42.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)