

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: P455017

Luminaire Tested: **GALN-SA6A-830-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455017
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-SA6A-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 18575 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 182
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

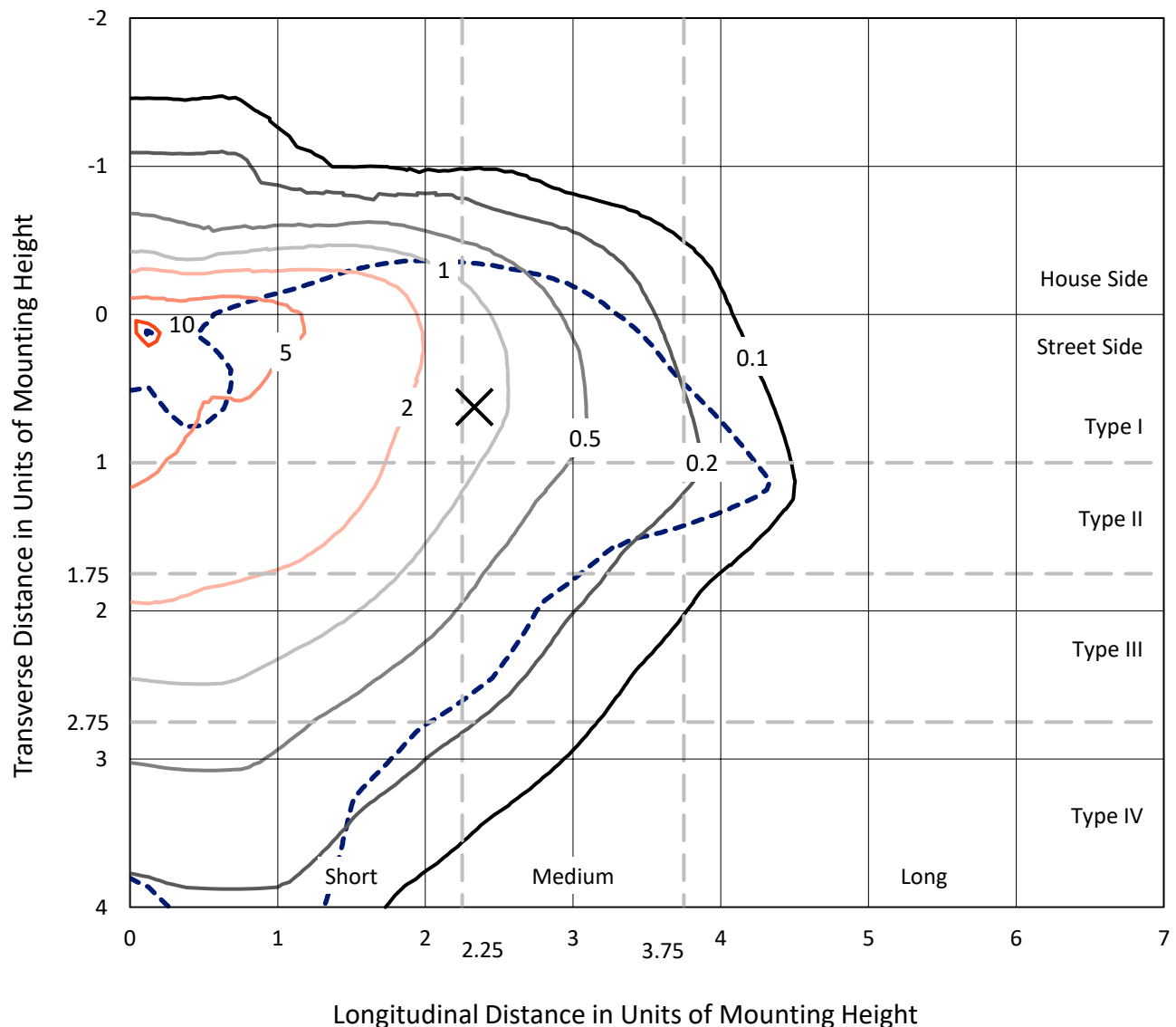


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Iso-Footcandle Lines of Horizontal Illumination

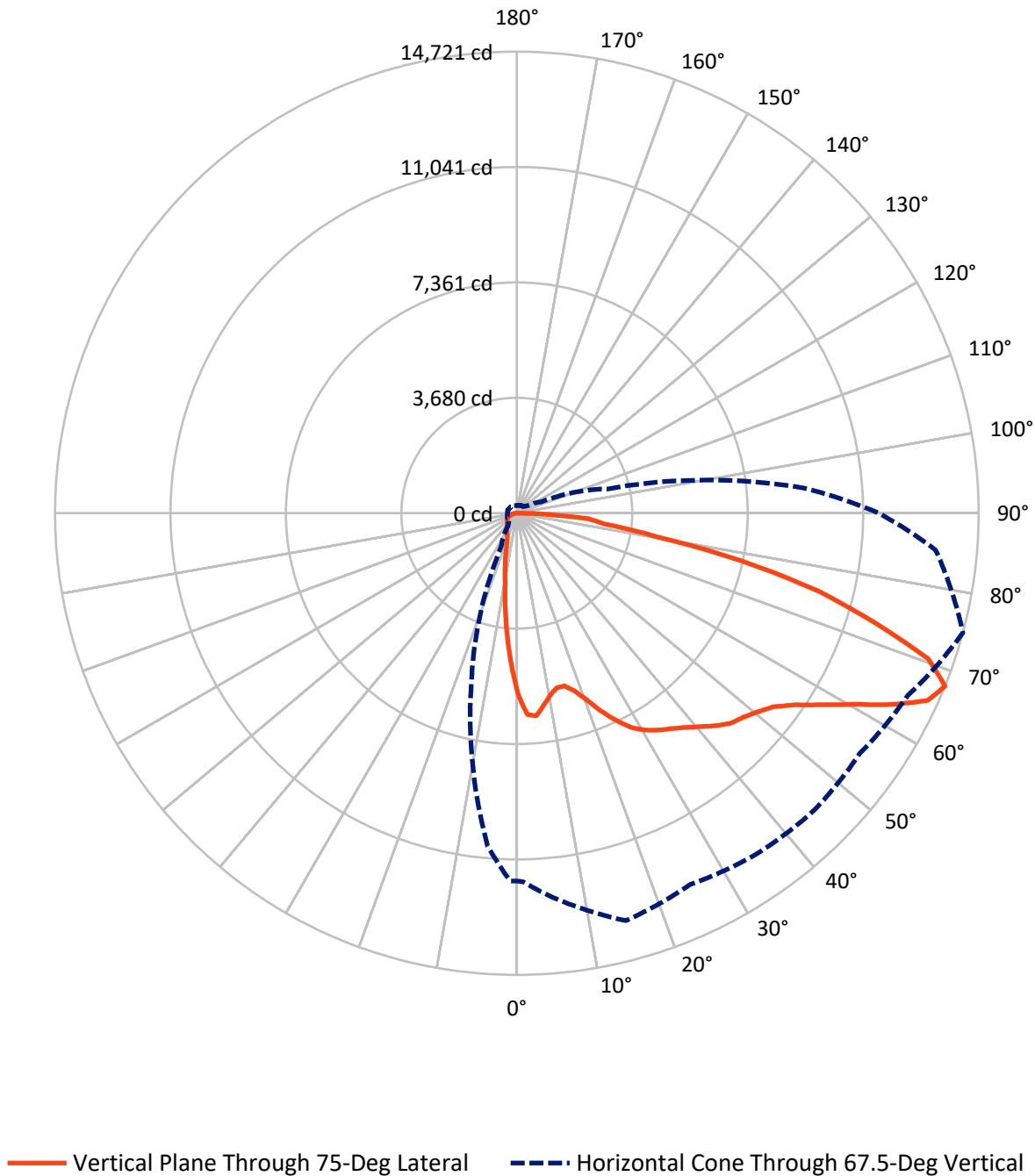
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3139.6	0.0	3139.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	15435.4	0.0	15435.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	18575.0	0.0	18575.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.2	2.4
10°-20°	918.0	4.9
20°-30°	1321.0	7.1
30°-40°	1902.6	10.2
40°-50°	2672.6	14.4
50°-60°	3727.3	20.1
60°-70°	4431.6	23.9
70°-80°	2609.9	14.1
80°-90°	551.9	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°	18575.0	100.0
0°-180°	18575.0	100.0

Coefficient of Utilization



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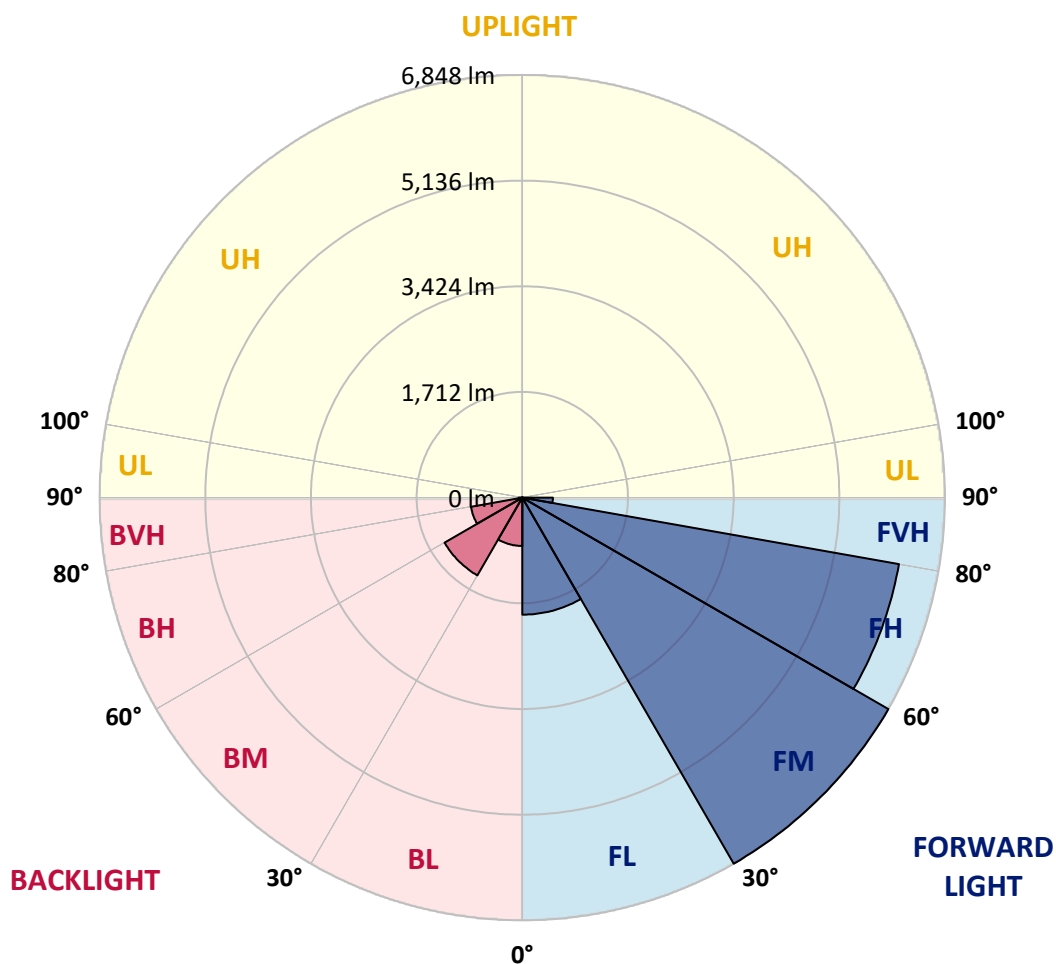
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1896.0	10.2			
FM	(30°-60°)	6847.9	36.9			
FH	(60°-80°)	6196.7	33.4			G3/7500
FVH	(80°-90°)	494.8	2.7			G3/500
BL	(0°-30°)	783.1	4.2	B2/1000		
BM	(30°-60°)	1454.6	7.8	B2/2500		
BH	(60°-80°)	844.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	57.1	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°	5803.3	5803.3	5803.3	5803.3	5803.3	5803.3	5803.3	5803.3	5803.3	5803.3	5803.3
2.5°	6257.1	6265.4	6319.0	6475.1	6582.3	6621.6	6649.0	6597.8	6547.7	6426.2	6242.8
5°	6238.0	6286.9	6426.2	6776.4	7052.8	7171.9	7207.6	7054.0	6800.3	6488.2	6113.0
7.5°	5873.5	5939.1	6153.5	6740.7	7227.9	7506.6	7469.7	7192.1	6734.7	6178.5	5654.4
10°	5441.2	5513.8	5772.3	6482.2	7110.0	7493.5	7493.5	7155.2	6547.7	5886.6	5282.7
12.5°	5098.1	5174.3	5469.7	6216.6	6864.6	7227.9	7288.6	6998.0	6413.1	5702.0	5038.6
15°	4985.0	5058.8	5376.8	6055.8	6604.9	6826.5	6846.7	6751.4	6347.6	5715.1	5027.8
17.5°	5125.5	5220.8	5542.4	6103.4	6366.7	6379.8	6395.3	6470.3	6354.8	5954.5	5244.6
20°	5531.7	5634.1	5970.0	6257.1	6158.2	6022.4	6030.8	6223.7	6439.3	6350.0	5762.8
22.5°	6117.7	6207.1	6551.3	6527.5	6070.1	5790.2	5731.8	6001.0	6564.4	6843.1	6314.3
25°	6750.2	6855.1	7250.5	6928.9	6095.1	5652.0	5615.1	5870.0	6694.2	7304.1	6951.5
27.5°	7474.4	7576.9	7889.0	7333.9	6226.1	5641.3	5597.2	5858.1	6811.0	7730.5	7560.2
30°	8012.8	8106.9	8319.0	7674.6	6386.9	5712.7	5657.9	5952.2	6911.0	8022.4	8153.4
32.5°	8435.7	8533.4	8648.9	7886.6	6599.0	5842.6	5741.3	6123.7	7042.1	8245.1	8592.9
35°	8876.4	8992.0	8983.6	8074.8	6796.7	5992.7	5893.8	6371.4	7248.1	8439.3	9150.4
37.5°	9435.1	9481.5	9422.0	8243.9	7033.7	6263.1	6208.3	6739.5	7541.2	8673.9	9802.0
40°	10002.1	10095.0	9788.8	8448.8	7322.0	6771.7	6765.7	7283.9	7889.0	8949.1	10433.3
42.5°	10488.1	10566.7	10131.9	8627.5	7671.0	7392.3	7437.5	8014.0	8345.2	9268.3	10940.7
45°	10853.7	10924.0	10448.7	8800.2	8130.8	8109.3	8376.1	8796.6	8920.5	9555.4	11238.5
47.5°	11164.6	11232.5	10669.1	9062.2	8698.9	8965.8	9430.3	9612.6	9412.4	9719.8	11572.0
50°	11426.7	11446.9	10820.4	9374.3	9404.1	10015.2	10465.4	10583.3	9898.4	9955.6	11861.4
52.5°	11699.4	11673.2	11081.2	9767.4	10166.4	11011.0	11338.5	11461.2	10364.2	10246.2	12283.1
55°	12310.5	12335.5	11666.1	10262.9	10937.1	11988.9	12420.1	12302.2	10879.9	10781.1	12819.1
57.5°	13049.0	13027.6	12489.2	11038.4	11722.1	12898.9	13220.5	13031.2	11568.4	11516.0	13362.3
60°	13336.1	13364.7	13177.7	11872.2	12496.3	13695.8	14024.6	13730.4	12393.9	12370.1	13772.0
62.5°	13047.8	13208.6	13334.9	12614.2	13156.2	14281.9	14608.2	14272.3	13255.1	13427.8	14059.1
65°	12473.7	12508.2	12938.2	13243.2	13474.3	14378.3	14548.7	14370.0	13974.5	14391.4	14046.0
67.5°	11728.0	11757.8	12261.7	13449.2	13064.5	13282.5	13401.6	13349.2	13751.8	14721.4	13399.2
70°	11018.1	10994.3	11526.7	12923.9	11373.1	11041.9	11140.8	10976.4	11866.2	13915.0	12130.6
72.5°	9636.4	9722.1	10293.9	11463.6	9005.1	8466.7	8682.3	8257.0	9126.6	11917.4	9846.0
75°	7548.3	7568.5	8522.7	9620.9	6793.1	5943.8	6235.7	6058.2	6990.8	9941.3	6799.1
77.5°	5226.8	5181.5	6207.1	7348.2	4844.4	4351.3	4356.0	4271.5	4881.3	7319.6	4619.3
80°	3319.7	3250.6	3885.5	4539.5	3329.3	3561.5	3444.8	3441.2	3178.0	4515.6	2793.2
82.5°	1793.9	1870.1	2455.0	2845.7	2388.3	2752.7	2522.8	2449.0	2181.0	2826.6	1786.7
85°	817.1	888.6	1309.1	1935.6	1814.1	1834.4	1225.7	1446.1	1804.6	2295.3	954.1
87.5°	79.8	102.4	270.4	913.6	619.4	488.4	182.2	351.4	453.8	815.9	76.2
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°	5803.3	5803.3	5803.3	5803.3	5803.3	5803.3	5803.3	5803.3	5803.3	5803.3	5803.3
2.5°	6167.8	6105.8	5895.0	5721.1	5536.5	5395.9	5212.5	5089.8	5005.2	4877.7	4862.3
5°	5884.3	5733.0	5366.1	4992.1	4669.3	4426.3	4179.7	3953.4	3820.0	3778.3	3724.7
7.5°	5406.6	5151.7	4680.0	4251.2	3880.8	3518.6	3239.9	3042.2	2910.0	2832.5	2739.6
10°	5013.5	4718.1	4144.0	3618.7	3313.8	3088.6	2843.3	2631.2	2468.1	2328.7	2252.5
12.5°	4749.1	4415.6	3770.0	3343.6	3107.7	2868.3	2581.2	2343.0	2102.4	1944.0	1876.1
15°	4669.3	4316.7	3654.4	3206.6	2868.3	2555.0	2233.4	1922.5	1684.3	1534.2	1484.2
17.5°	4864.6	4438.2	3653.2	3024.3	2587.2	2213.2	1801.0	1509.2	1265.0	1153.0	1117.3
20°	5229.1	4671.7	3664.0	2844.5	2282.2	1755.8	1310.3	1070.8	954.1	906.5	888.6
22.5°	5737.8	5027.8	3696.1	2667.0	1948.7	1348.4	981.5	860.0	818.3	810.0	806.4
25°	6364.3	5468.6	3804.5	2507.4	1667.6	1029.2	820.7	765.9	742.1	733.7	732.6
27.5°	6940.8	6037.9	3935.6	2370.4	1396.0	887.4	742.1	695.6	671.8	670.6	673.0
30°	7461.3	6514.4	4045.1	2216.7	1190.0	788.5	690.9	644.4	621.8	620.6	627.7
32.5°	7911.6	6906.3	4126.1	2065.4	1075.6	727.8	644.4	594.4	575.3	571.8	575.3
35°	8392.8	7297.0	4089.2	1947.5	1010.1	677.8	609.9	561.0	538.4	527.7	527.7
37.5°	8941.9	7699.6	4026.1	1849.9	980.3	636.1	580.1	532.4	509.8	499.1	497.9
40°	9541.1	8102.2	3939.1	1762.9	950.5	611.1	559.8	509.8	482.4	471.7	469.3
42.5°	10070.0	8446.4	3867.7	1705.7	901.7	615.8	542.0	493.1	458.6	444.3	443.1
45°	10529.7	8793.0	3854.6	1672.4	861.2	608.7	537.2	480.0	439.5	424.0	421.7
47.5°	10889.5	9154.0	3929.6	1653.3	817.1	570.6	568.2	471.7	422.9	406.2	403.8
50°	11327.8	9666.2	4101.1	1614.0	776.6	534.8	600.3	470.5	409.8	388.3	382.4
52.5°	11911.5	10333.2	4333.4	1543.7	718.3	501.5	572.9	470.5	394.3	372.8	365.7
55°	12794.1	11183.7	4560.9	1444.9	636.1	457.4	517.0	456.2	371.6	352.6	347.8
57.5°	13379.0	11805.5	4706.2	1307.9	533.6	425.2	445.5	433.6	349.0	328.8	328.8
60°	13408.7	11972.2	4637.1	1135.2	469.3	395.5	387.1	437.2	328.8	307.3	304.9
62.5°	13065.7	11563.7	4277.4	980.3	434.8	363.3	350.2	383.5	308.5	287.1	283.5
65°	12529.7	10521.4	3653.2	906.5	415.7	334.7	315.7	314.5	287.1	266.8	262.1
67.5°	11544.6	9194.5	3001.7	863.6	406.2	302.6	284.7	278.7	262.1	245.4	243.0
70°	10092.6	7700.8	2407.3	845.7	401.4	269.2	254.9	247.8	233.5	220.4	219.2
72.5°	7852.0	6246.4	1986.8	833.8	399.0	238.2	222.7	213.2	204.9	193.0	193.0
75°	5640.1	4595.4	1516.3	751.6	369.3	204.9	188.2	182.2	170.3	160.8	163.2
77.5°	3555.6	3094.6	998.2	552.7	285.9	164.4	150.1	146.5	137.0	123.9	132.2
80°	2401.4	2176.2	582.5	347.8	179.9	120.3	115.5	114.4	103.6	89.3	90.5
82.5°	1634.3	1603.3	302.6	197.7	103.6	70.3	67.9	70.3	58.4	47.6	47.6
85°	638.5	871.9	142.9	77.4	33.4	10.7	15.5	16.7	9.5	4.8	6.0
87.5°	11.9	89.3	3.6	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°	5803.3	5803.3	5803.3	5803.3	5803.3	5803.3	5803.3	5803.3	5803.3	5803.3	5803.3
2.5°	4838.4	4827.7	4845.6	4769.4	4784.8	4813.4	4827.7	4836.1	4954.0	4926.6	5001.6
5°	3774.7	3764.0	3833.1	3842.6	3878.4	3871.2	3905.8	3914.1	3957.0	3972.5	4077.3
7.5°	2745.6	2792.0	2870.7	2911.2	2971.9	2991.0	2973.1	3017.2	2927.8	2992.2	3011.2
10°	2206.0	2150.0	2116.7	2209.6	2221.5	2309.6	2273.9	2245.3	2297.7	2300.1	2350.1
12.5°	1836.7	1716.4	1636.6	1662.8	1691.4	1729.5	1735.5	1792.7	1830.8	1866.5	1896.3
15°	1440.1	1398.4	1325.7	1290.0	1330.5	1346.0	1382.9	1430.6	1471.1	1481.8	1522.3
17.5°	1105.4	1112.5	1100.6	1079.2	1104.2	1116.1	1118.5	1119.7	1130.4	1123.3	1182.8
20°	889.8	914.8	944.6	949.3	957.7	963.6	952.9	912.4	913.6	938.6	957.7
22.5°	805.2	810.0	843.3	854.1	880.3	869.5	838.6	819.5	817.1	823.1	832.6
25°	738.5	745.7	769.5	786.2	806.4	787.3	764.7	746.8	744.5	750.4	760.0
27.5°	679.0	689.7	711.1	727.8	746.8	729.0	707.5	692.1	690.9	689.7	695.6
30°	631.3	643.2	658.7	677.8	690.9	675.4	655.1	646.8	645.6	643.2	645.6
32.5°	583.7	602.7	618.2	627.7	640.8	628.9	613.4	608.7	600.3	593.2	589.6
35°	530.1	550.3	574.1	586.0	599.1	587.2	576.5	556.3	542.0	540.8	543.2
37.5°	499.1	507.4	526.5	546.7	559.8	553.9	533.6	513.4	509.8	509.8	512.2
40°	471.7	475.3	483.6	509.8	533.6	515.8	490.8	484.8	484.8	483.6	484.8
42.5°	444.3	447.9	447.9	468.1	506.2	477.7	458.6	458.6	458.6	459.8	463.4
45°	419.3	420.5	419.3	433.6	469.3	445.5	432.4	436.0	438.3	440.7	443.1
47.5°	397.8	399.0	397.8	409.8	427.6	418.1	410.9	415.7	420.5	424.0	426.4
50°	378.8	377.6	380.0	387.1	395.5	397.8	393.1	400.2	402.6	407.4	413.3
52.5°	362.1	360.9	363.3	366.9	378.8	378.8	378.8	384.7	389.5	394.3	402.6
55°	343.1	344.2	347.8	352.6	368.1	365.7	366.9	371.6	376.4	383.5	388.3
57.5°	325.2	327.6	332.3	339.5	355.0	353.8	355.0	357.3	363.3	366.9	371.6
60°	304.9	309.7	315.7	320.4	335.9	334.7	340.7	345.4	349.0	349.0	351.4
62.5°	284.7	291.8	297.8	301.4	318.0	319.2	327.6	331.1	333.5	331.1	334.7
65°	264.4	275.2	277.5	282.3	299.0	300.2	309.7	318.0	315.7	313.3	319.2
67.5°	244.2	257.3	256.1	262.1	278.7	281.1	289.4	303.7	299.0	296.6	301.4
70°	221.6	231.1	232.3	235.8	258.5	254.9	268.0	281.1	277.5	278.7	278.7
72.5°	196.5	204.9	204.9	212.0	235.8	229.9	240.6	254.9	254.9	253.7	253.7
75°	166.8	171.5	176.3	187.0	212.0	204.9	212.0	225.1	227.5	225.1	225.1
77.5°	134.6	141.7	144.1	158.4	176.3	175.1	182.2	188.2	193.0	190.6	190.6
80°	95.3	102.4	112.0	127.5	138.2	141.7	145.3	150.1	152.5	152.5	154.8
82.5°	53.6	64.3	72.7	88.1	92.9	110.8	109.6	113.2	109.6	96.5	107.2
85°	11.9	22.6	32.2	40.5	46.5	64.3	67.9	76.2	63.1	58.4	58.4
87.5°	0.0	0.0	0.0	0.0	0.0	9.5	19.1	26.2	22.6	19.1	19.1
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5803.3	5803.3	5803.3	5803.3	5803.3	5803.3	5803.3	5803.3	5803.3	5803.3
2.5°	5064.8	5168.4	5293.5	5509.1	5660.3	5823.5	5987.9	6163.0	6209.5	6257.1
5°	4105.9	4309.6	4420.3	4709.8	5013.5	5399.5	5715.1	6060.6	6204.7	6238.0
7.5°	3110.1	3248.3	3538.9	3831.9	4208.3	4613.3	5096.9	5635.3	5803.3	5873.5
10°	2465.7	2653.9	2908.8	3223.2	3553.2	3989.2	4534.7	5163.6	5401.9	5441.2
12.5°	2098.8	2308.4	2586.0	2918.3	3230.4	3559.1	4109.5	4758.6	5013.5	5098.1
15°	1678.3	1932.0	2252.5	2602.7	2942.1	3301.9	3859.3	4591.9	4886.1	4985.0
17.5°	1318.6	1523.5	1870.1	2250.1	2652.7	3107.7	3806.9	4671.7	5033.8	5125.5
20°	1008.9	1155.4	1447.2	1848.7	2320.4	2915.9	3820.0	4973.0	5406.6	5531.7
22.5°	871.9	947.0	1124.4	1506.8	2034.5	2749.2	3873.6	5386.4	5909.3	6117.7
25°	789.7	829.0	929.1	1179.2	1761.7	2587.2	3996.3	5942.6	6612.1	6750.2
27.5°	719.5	748.0	810.0	989.8	1513.9	2437.1	4139.2	6559.6	7268.4	7474.4
30°	652.7	690.9	749.2	879.1	1355.5	2300.1	4319.1	7059.9	7821.1	8012.8
32.5°	601.5	639.6	693.2	801.6	1220.9	2156.0	4426.3	7499.5	8272.5	8435.7
35°	559.8	592.0	648.0	739.7	1118.5	2046.4	4404.9	7848.5	8709.7	8876.4
37.5°	530.1	557.5	613.4	681.3	1041.1	1932.0	4394.1	8309.4	9242.1	9435.1
40°	502.7	531.3	582.5	643.2	963.6	1797.4	4400.1	8766.8	9809.1	10002.1
42.5°	481.2	513.4	555.1	632.5	883.8	1689.0	4400.1	9164.7	10302.2	10488.1
45°	463.4	497.9	538.4	631.3	820.7	1606.9	4370.3	9506.5	10695.3	10853.7
47.5°	447.9	486.0	544.4	609.9	805.2	1547.3	4344.1	9780.5	11015.7	11164.6
50°	437.2	482.4	578.9	584.9	810.0	1529.4	4470.4	10125.9	11298.0	11426.7
52.5°	428.8	483.6	577.7	547.9	801.6	1541.3	4733.6	10665.5	11689.9	11699.4
55°	412.1	482.4	547.9	506.2	767.1	1561.6	5071.9	11449.3	12303.4	12310.5
57.5°	395.5	469.3	508.6	470.5	696.8	1561.6	5479.3	12191.4	13043.1	13049.0
60°	378.8	488.4	446.7	439.5	605.1	1533.0	5909.3	12517.8	13275.3	13336.1
62.5°	362.1	491.9	399.0	412.1	538.4	1463.9	6229.7	12156.8	12960.9	13047.8
65°	343.1	396.7	368.1	383.5	503.9	1348.4	6128.5	11495.8	12370.1	12473.7
67.5°	320.4	335.9	334.7	353.8	491.9	1178.0	5594.8	10659.6	11734.0	11728.0
70°	293.0	301.4	304.9	325.2	469.3	1045.8	4662.2	9574.4	10884.7	11018.1
72.5°	264.4	271.6	275.2	293.0	446.7	970.8	3618.7	8079.6	9427.9	9636.4
75°	233.5	238.2	243.0	258.5	422.9	860.0	2577.6	6167.8	7220.7	7548.3
77.5°	201.3	201.3	207.3	222.7	356.2	709.9	1729.5	4326.2	4892.0	5226.8
80°	163.2	164.4	162.0	178.7	262.1	486.0	982.7	2889.7	3255.4	3319.7
82.5°	125.1	121.5	122.7	131.0	195.3	331.1	524.1	1795.1	1829.6	1793.9
85°	78.6	78.6	76.2	85.8	125.1	172.7	285.9	1099.4	858.8	817.1
87.5°	32.2	26.2	29.8	34.5	59.6	70.3	112.0	226.3	87.0	79.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)