

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: P454872

Luminaire Tested: **GALN-SA6A-730-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454872
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-730-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 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: 21288 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

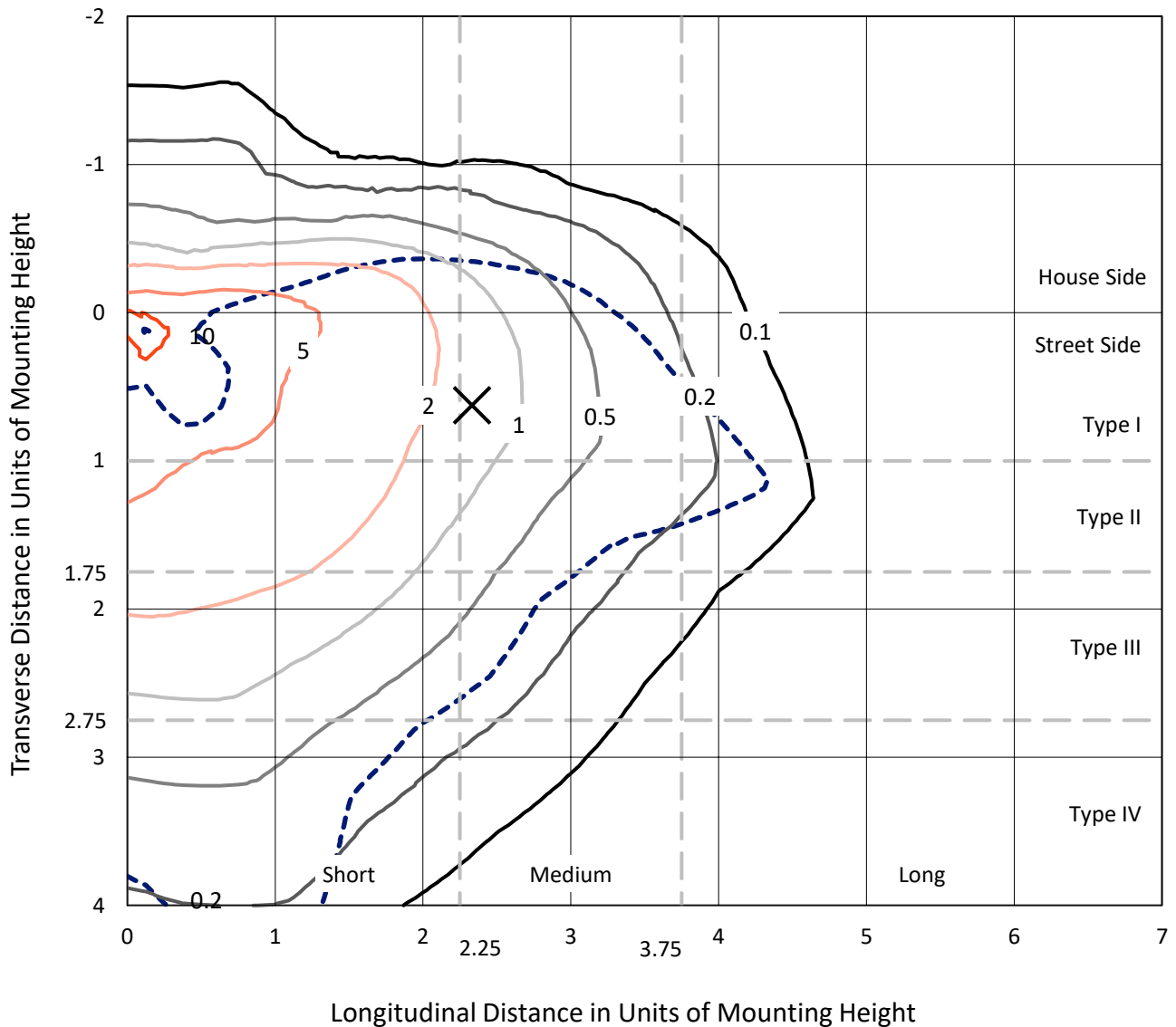
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

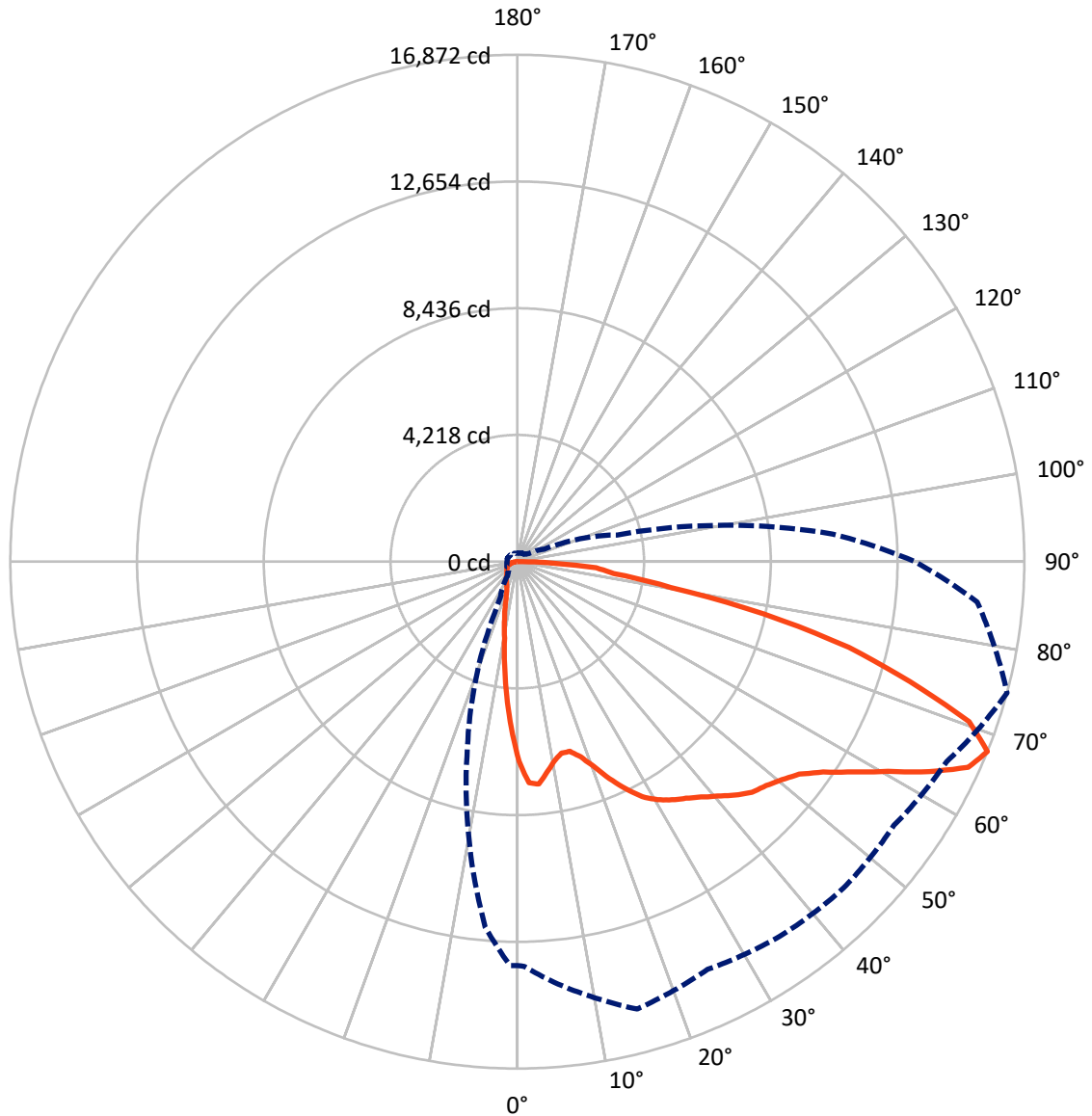
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	3598.1	0.0	3598.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	17689.9	0.0	17689.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	21288.0	0.0	21288.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.5	2.4
10°-20°	1052.0	4.9
20°-30°	1513.9	7.1
30°-40°	2180.5	10.2
40°-50°	3062.9	14.4
50°-60°	4271.7	20.1
60°-70°	5078.8	23.9
70°-80°	2991.1	14.1
80°-90°	632.5	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°	21288.0	100.0
0°-180°	21288.0	100.0

Coefficient of Utilization



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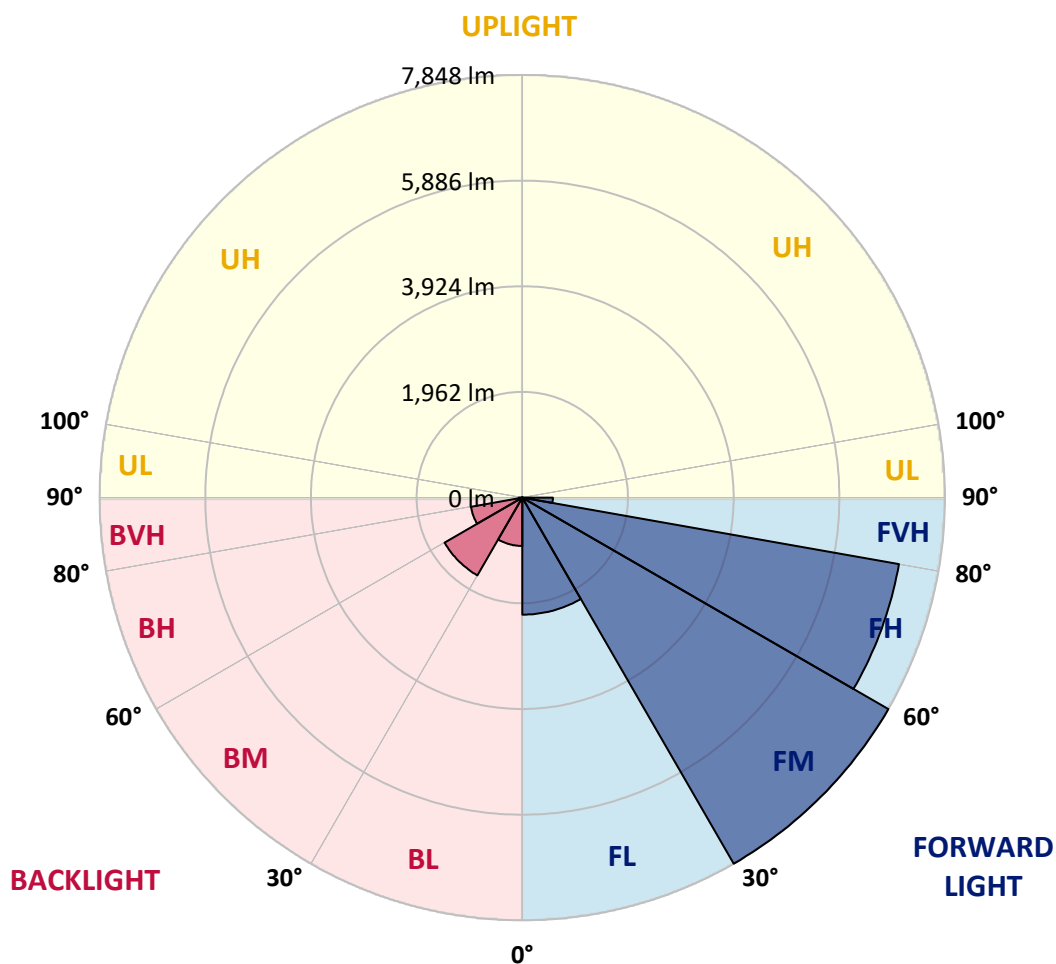
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2172.9	10.2			
FM	(30°-60°)	7848.1	36.9			
FH	(60°-80°)	7101.8	33.4			G3/7500
FVH	(80°-90°)	567.1	2.7			G4/750
BL	(0°-30°)	897.5	4.2	B2/1000		
BM	(30°-60°)	1667.0	7.8	B2/2500		
BH	(60°-80°)	968.2	4.5	B2/1000		G2/1000
BVH	(80°-90°)	65.4	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9
2.5°	7171.0	7180.5	7242.0	7420.8	7543.7	7588.7	7620.1	7561.4	7504.1	7364.8	7154.6
5°	7149.1	7205.1	7364.8	7766.2	8082.9	8219.4	8260.4	8084.3	7793.5	7435.8	7005.8
7.5°	6731.4	6806.5	7052.2	7725.2	8283.6	8603.0	8560.7	8242.6	7718.4	7080.9	6480.2
10°	6235.9	6319.2	6615.4	7429.0	8148.4	8588.0	8588.0	8200.3	7504.1	6746.4	6054.3
12.5°	5842.7	5930.1	6268.6	7124.6	7867.2	8283.6	8353.2	8020.1	7349.8	6534.8	5774.5
15°	5713.0	5797.7	6162.2	6940.3	7569.6	7823.5	7846.7	7737.5	7274.7	6549.9	5762.2
17.5°	5874.1	5983.3	6351.9	6994.9	7296.6	7311.6	7329.3	7415.3	7282.9	6824.2	6010.6
20°	6339.6	6457.0	6842.0	7171.0	7057.7	6902.1	6911.6	7132.8	7379.9	7277.5	6604.5
22.5°	7011.3	7113.7	7508.2	7480.9	6956.7	6635.9	6569.0	6877.5	7523.2	7842.6	7236.5
25°	7736.1	7856.3	8309.5	7940.9	6985.3	6477.5	6435.2	6727.3	7672.0	8370.9	7966.9
27.5°	8566.1	8683.5	9041.2	8405.1	7135.5	6465.2	6414.7	6713.7	7805.8	8859.6	8664.4
30°	9183.2	9291.0	9534.0	8795.5	7319.8	6547.1	6484.3	6821.5	7920.4	9194.1	9344.3
32.5°	9667.8	9779.7	9912.2	9038.5	7562.8	6695.9	6579.9	7018.1	8070.6	9449.4	9848.0
35°	10172.9	10305.3	10295.8	9254.2	7789.4	6867.9	6754.6	7302.0	8306.8	9671.9	10486.9
37.5°	10813.1	10866.4	10798.1	9448.0	8061.0	7177.8	7115.0	7723.9	8642.6	9940.8	11233.6
40°	11462.9	11569.4	11218.6	9682.8	8391.4	7760.7	7753.9	8347.7	9041.2	10256.2	11957.1
42.5°	12019.9	12110.0	11611.7	9887.6	8791.4	8471.9	8523.8	9184.5	9564.0	10622.0	12538.6
45°	12439.0	12519.5	11974.9	10085.5	9318.3	9293.8	9599.5	10081.4	10223.4	10951.0	12879.9
47.5°	12795.3	12873.1	12227.4	10385.8	9969.5	10275.3	10807.7	11016.5	10787.2	11139.4	13262.2
50°	13095.6	13118.8	12400.8	10743.5	10777.6	11477.9	11994.0	12129.1	11344.2	11409.7	13593.9
52.5°	13408.2	13378.2	12699.7	11194.0	11651.3	12619.2	12994.6	13135.2	11877.9	11742.8	14077.1
55°	14108.5	14137.2	13370.0	11761.9	12534.6	13740.0	14234.1	14099.0	12469.0	12355.7	14691.4
57.5°	14954.9	14930.3	14313.3	12650.6	13434.2	14782.9	15151.5	14934.4	13258.1	13198.0	15313.9
60°	15283.9	15316.7	15102.3	13606.2	14321.5	15696.2	16072.9	15735.8	14204.1	14176.8	15783.5
62.5°	14953.5	15137.8	15282.5	14456.6	15077.8	16367.8	16741.9	16356.9	15191.1	15389.0	16112.5
65°	14295.6	14335.1	14828.0	15177.4	15442.3	16478.4	16673.6	16468.8	16015.6	16493.4	16097.5
67.5°	13441.0	13475.1	14052.6	15413.6	14972.7	15222.5	15359.0	15298.9	15760.3	16871.5	15356.3
70°	12627.4	12600.1	13210.3	14811.6	13034.2	12654.7	12768.0	12579.6	13599.3	15947.4	13902.4
72.5°	11043.8	11142.1	11797.4	13137.9	10320.3	9703.3	9950.4	9463.0	10459.6	13658.0	11284.1
75°	8650.8	8674.0	9767.4	11026.1	7785.3	6812.0	7146.4	6943.0	8011.9	11393.3	7792.1
77.5°	5990.2	5938.3	7113.7	8421.4	5552.0	4986.8	4992.3	4895.3	5594.3	8388.7	5293.9
80°	3804.6	3725.4	4453.0	5202.5	3815.5	4081.7	3947.9	3943.8	3642.1	5175.2	3201.2
82.5°	2055.9	2143.2	2813.5	3261.3	2737.1	3154.8	2891.3	2806.7	2499.5	3239.4	2047.7
85°	936.5	1018.4	1500.3	2218.3	2079.1	2102.3	1404.7	1657.3	2068.2	2630.6	1093.5
87.5°	91.5	117.4	309.9	1047.0	709.9	559.7	208.9	402.7	520.1	935.1	87.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9
2.5°	7068.6	6997.6	6756.0	6556.7	6345.1	6184.0	5973.8	5833.2	5736.2	5590.2	5572.4
5°	6743.7	6570.3	6149.9	5721.2	5351.3	5072.8	4790.2	4530.8	4377.9	4330.2	4268.7
7.5°	6196.3	5904.2	5363.6	4872.1	4447.6	4032.6	3713.1	3486.5	3335.0	3246.3	3139.8
10°	5745.8	5407.2	4749.3	4147.2	3797.8	3539.8	3258.5	3015.6	2828.5	2668.8	2581.4
12.5°	5442.7	5060.5	4320.6	3831.9	3561.6	3287.2	2958.2	2685.2	2409.4	2227.9	2150.1
15°	5351.3	4947.2	4188.2	3674.9	3287.2	2928.2	2559.6	2203.3	1930.3	1758.3	1700.9
17.5°	5575.2	5086.4	4186.8	3466.0	2965.0	2536.4	2064.1	1729.6	1449.8	1321.4	1280.5
20°	5992.9	5354.0	4199.1	3259.9	2615.6	2012.2	1501.6	1227.2	1093.5	1038.9	1018.4
22.5°	6575.8	5762.2	4236.0	3056.5	2233.3	1545.3	1124.9	985.6	937.8	928.3	924.2
25°	7293.8	6267.3	4360.2	2873.6	1911.2	1179.5	940.6	877.8	850.5	840.9	839.6
27.5°	7954.6	6919.8	4510.4	2716.6	1599.9	1017.0	850.5	797.2	769.9	768.6	771.3
30°	8551.1	7465.9	4636.0	2540.5	1363.8	903.7	791.8	738.5	712.6	711.2	719.4
32.5°	9067.1	7915.0	4728.8	2367.1	1232.7	834.1	738.5	681.2	659.4	655.3	659.4
35°	9618.7	8362.7	4686.5	2232.0	1157.6	776.8	698.9	643.0	617.0	604.7	604.7
37.5°	10248.0	8824.1	4614.1	2120.0	1123.5	729.0	664.8	610.2	584.3	572.0	570.6
40°	10934.6	9285.6	4514.5	2020.4	1089.4	700.3	641.6	584.3	552.9	540.6	537.9
42.5°	11540.7	9680.1	4432.6	1954.9	1033.4	705.8	621.1	565.2	525.6	509.2	507.8
45°	12067.7	10077.3	4417.5	1916.6	987.0	697.6	615.7	550.1	503.7	486.0	483.3
47.5°	12479.9	10491.0	4503.5	1894.8	936.5	653.9	651.2	540.6	484.6	465.5	462.8
50°	12982.3	11078.0	4700.1	1849.7	890.1	612.9	688.0	539.2	469.6	445.0	438.2
52.5°	13651.2	11842.4	4966.3	1769.2	823.2	574.7	656.6	539.2	451.9	427.3	419.1
55°	14662.8	12817.1	5227.1	1655.9	729.0	524.2	592.5	522.8	425.9	404.1	398.6
57.5°	15333.1	13529.7	5393.6	1498.9	611.6	487.3	510.6	496.9	400.0	376.8	376.8
60°	15367.2	13720.8	5314.4	1301.0	537.9	453.2	443.7	501.0	376.8	352.2	349.5
62.5°	14974.0	13252.6	4902.2	1123.5	498.3	416.4	401.3	439.6	353.6	329.0	324.9
65°	14359.7	12058.1	4186.8	1038.9	476.4	383.6	361.8	360.4	329.0	305.8	300.3
67.5°	13230.8	10537.4	3440.1	989.7	465.5	346.7	326.3	319.4	300.3	281.2	278.5
70°	11566.7	8825.5	2758.9	969.2	460.0	308.5	292.1	283.9	267.6	252.5	251.2
72.5°	8998.9	7158.7	2277.0	955.6	457.3	273.0	255.3	244.4	234.8	221.1	221.1
75°	6463.9	5266.6	1737.8	861.4	423.2	234.8	215.7	208.9	195.2	184.3	187.0
77.5°	4074.9	3546.6	1144.0	633.4	327.6	188.4	172.0	167.9	157.0	142.0	151.5
80°	2752.1	2494.1	667.5	398.6	206.1	137.9	132.4	131.1	118.8	102.4	103.7
82.5°	1872.9	1837.5	346.7	226.6	118.8	80.5	77.8	80.5	66.9	54.6	54.6
85°	731.7	999.3	163.8	88.7	38.2	12.3	17.7	19.1	10.9	5.5	6.8
87.5°	13.7	102.4	4.1	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°	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9
2.5°	5545.1	5532.8	5553.3	5465.9	5483.7	5516.5	5532.8	5542.4	5677.5	5646.1	5732.1
5°	4326.1	4313.8	4393.0	4403.9	4444.8	4436.6	4476.2	4485.8	4534.9	4552.7	4672.8
7.5°	3146.6	3199.8	3289.9	3336.4	3406.0	3427.8	3407.3	3457.9	3355.5	3429.2	3451.0
10°	2528.2	2464.0	2425.8	2532.3	2546.0	2647.0	2606.0	2573.3	2633.3	2636.1	2693.4
12.5°	2105.0	1967.1	1875.7	1905.7	1938.5	1982.2	1989.0	2054.5	2098.2	2139.1	2173.3
15°	1650.4	1602.7	1519.4	1478.4	1524.8	1542.6	1584.9	1639.5	1685.9	1698.2	1744.6
17.5°	1266.8	1275.0	1261.4	1236.8	1265.5	1279.1	1281.8	1283.2	1295.5	1287.3	1355.6
20°	1019.7	1048.4	1082.5	1088.0	1097.6	1104.4	1092.1	1045.7	1047.0	1075.7	1097.6
22.5°	922.8	928.3	966.5	978.8	1008.8	996.5	961.0	939.2	936.5	943.3	954.2
25°	846.4	854.6	881.9	901.0	924.2	902.3	876.4	855.9	853.2	860.0	870.9
27.5°	778.1	790.4	815.0	834.1	855.9	835.5	810.9	793.1	791.8	790.4	797.2
30°	723.5	737.2	754.9	776.8	791.8	774.0	750.8	741.3	739.9	737.2	739.9
32.5°	668.9	690.8	708.5	719.4	734.4	720.8	703.0	697.6	688.0	679.8	675.7
35°	607.5	630.7	658.0	671.6	686.7	673.0	660.7	637.5	621.1	619.8	622.5
37.5°	572.0	581.5	603.4	626.6	641.6	634.8	611.6	588.4	584.3	584.3	587.0
40°	540.6	544.7	554.2	584.3	611.6	591.1	562.4	555.6	555.6	554.2	555.6
42.5°	509.2	513.3	513.3	536.5	580.2	547.4	525.6	525.6	525.6	526.9	531.0
45°	480.5	481.9	480.5	496.9	537.9	510.6	495.5	499.6	502.4	505.1	507.8
47.5°	456.0	457.3	456.0	469.6	490.1	479.2	471.0	476.4	481.9	486.0	488.7
50°	434.1	432.7	435.5	443.7	453.2	456.0	450.5	458.7	461.4	466.9	473.7
52.5°	415.0	413.6	416.4	420.5	434.1	434.1	434.1	440.9	446.4	451.9	461.4
55°	393.2	394.5	398.6	404.1	421.8	419.1	420.5	425.9	431.4	439.6	445.0
57.5°	372.7	375.4	380.9	389.1	406.8	405.4	406.8	409.5	416.4	420.5	425.9
60°	349.5	354.9	361.8	367.2	385.0	383.6	390.4	395.9	400.0	400.0	402.7
62.5°	326.3	334.5	341.3	345.4	364.5	365.9	375.4	379.5	382.2	379.5	383.6
65°	303.1	315.3	318.1	323.5	342.6	344.0	354.9	364.5	361.8	359.0	365.9
67.5°	279.9	294.9	293.5	300.3	319.4	322.2	331.7	348.1	342.6	339.9	345.4
70°	253.9	264.8	266.2	270.3	296.2	292.1	307.2	322.2	318.1	319.4	319.4
72.5°	225.2	234.8	234.8	243.0	270.3	263.5	275.8	292.1	292.1	290.8	290.8
75°	191.1	196.6	202.0	214.3	243.0	234.8	243.0	258.0	260.7	258.0	258.0
77.5°	154.3	162.4	165.2	181.6	202.0	200.7	208.9	215.7	221.1	218.4	218.4
80°	109.2	117.4	128.3	146.1	158.4	162.4	166.5	172.0	174.7	174.7	177.5
82.5°	61.4	73.7	83.3	101.0	106.5	127.0	125.6	129.7	125.6	110.6	122.9
85°	13.7	25.9	36.9	46.4	53.2	73.7	77.8	87.4	72.4	66.9	66.9
87.5°	0.0	0.0	0.0	0.0	0.0	10.9	21.8	30.0	25.9	21.8	21.8
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°	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9	6650.9
2.5°	5804.5	5923.3	6066.6	6313.7	6487.1	6674.1	6862.5	7063.1	7116.4	7171.0
5°	4705.6	4939.0	5066.0	5397.7	5745.8	6188.1	6549.9	6945.7	7110.9	7149.1
7.5°	3564.3	3722.7	4055.8	4391.6	4823.0	5287.1	5841.4	6458.4	6650.9	6731.4
10°	2825.8	3041.5	3333.6	3694.0	4072.2	4571.8	5197.0	5917.8	6190.8	6235.9
12.5°	2405.3	2645.6	2963.7	3344.5	3702.2	4079.0	4709.7	5453.7	5745.8	5842.7
15°	1923.5	2214.2	2581.4	2982.8	3371.9	3784.1	4423.0	5262.5	5599.7	5713.0
17.5°	1511.2	1746.0	2143.2	2578.7	3040.1	3561.6	4362.9	5354.0	5769.0	5874.1
20°	1156.3	1324.2	1658.6	2118.7	2659.3	3341.8	4377.9	5699.4	6196.3	6339.6
22.5°	999.3	1085.3	1288.7	1726.9	2331.6	3150.7	4439.4	6173.1	6772.4	7011.3
25°	905.1	950.1	1064.8	1351.5	2019.0	2965.0	4580.0	6810.6	7577.8	7736.1
27.5°	824.5	857.3	928.3	1134.4	1735.1	2793.0	4743.8	7517.7	8330.0	8566.1
30°	748.1	791.8	858.7	1007.5	1553.5	2636.1	4949.9	8091.1	8963.4	9183.2
32.5°	689.4	733.1	794.5	918.7	1399.3	2470.9	5072.8	8594.8	9480.8	9667.8
35°	641.6	678.5	742.6	847.7	1281.8	2345.3	5048.2	8994.8	9981.8	10172.9
37.5°	607.5	638.9	703.0	780.8	1193.1	2214.2	5035.9	9523.1	10592.0	10813.1
40°	576.1	608.8	667.5	737.2	1104.4	2060.0	5042.8	10047.3	11241.8	11462.9
42.5°	551.5	588.4	636.1	724.9	1012.9	1935.7	5042.8	10503.2	11806.9	12019.9
45°	531.0	570.6	617.0	723.5	940.6	1841.5	5008.6	10895.0	12257.4	12439.0
47.5°	513.3	557.0	623.9	698.9	922.8	1773.3	4978.6	11209.0	12624.6	12795.3
50°	501.0	552.9	663.4	670.3	928.3	1752.8	5123.3	11604.9	12948.2	13095.6
52.5°	491.4	554.2	662.1	628.0	918.7	1766.5	5425.0	12223.3	13397.3	13408.2
55°	472.3	552.9	628.0	580.2	879.1	1789.7	5812.7	13121.6	14100.3	14108.5
57.5°	453.2	537.9	582.9	539.2	798.6	1789.7	6279.6	13972.0	14948.1	14954.9
60°	434.1	559.7	511.9	503.7	693.5	1756.9	6772.4	14346.1	15214.3	15283.9
62.5°	415.0	563.8	457.3	472.3	617.0	1677.7	7139.6	13932.4	14853.9	14953.5
65°	393.2	454.6	421.8	439.6	577.4	1545.3	7023.6	13174.8	14176.8	14295.6
67.5°	367.2	385.0	383.6	405.4	563.8	1350.1	6412.0	12216.5	13447.8	13441.0
70°	335.8	345.4	349.5	372.7	537.9	1198.6	5343.1	10972.9	12474.5	12627.4
72.5°	303.1	311.2	315.3	335.8	511.9	1112.6	4147.2	9259.6	10804.9	11043.8
75°	267.6	273.0	278.5	296.2	484.6	985.6	2954.1	7068.6	8275.4	8650.8
77.5°	230.7	230.7	237.5	255.3	408.2	813.6	1982.2	4958.1	5606.6	5990.2
80°	187.0	188.4	185.7	204.8	300.3	557.0	1126.2	3311.8	3730.9	3804.6
82.5°	143.3	139.2	140.6	150.2	223.9	379.5	600.7	2057.2	2096.8	2055.9
85°	90.1	90.1	87.4	98.3	143.3	197.9	327.6	1260.0	984.3	936.5
87.5°	36.9	30.0	34.1	39.6	68.3	80.5	128.3	259.4	99.7	91.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)