

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: P455011

Luminaire Tested: **GALN-SA6A-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
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-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21510 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - 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

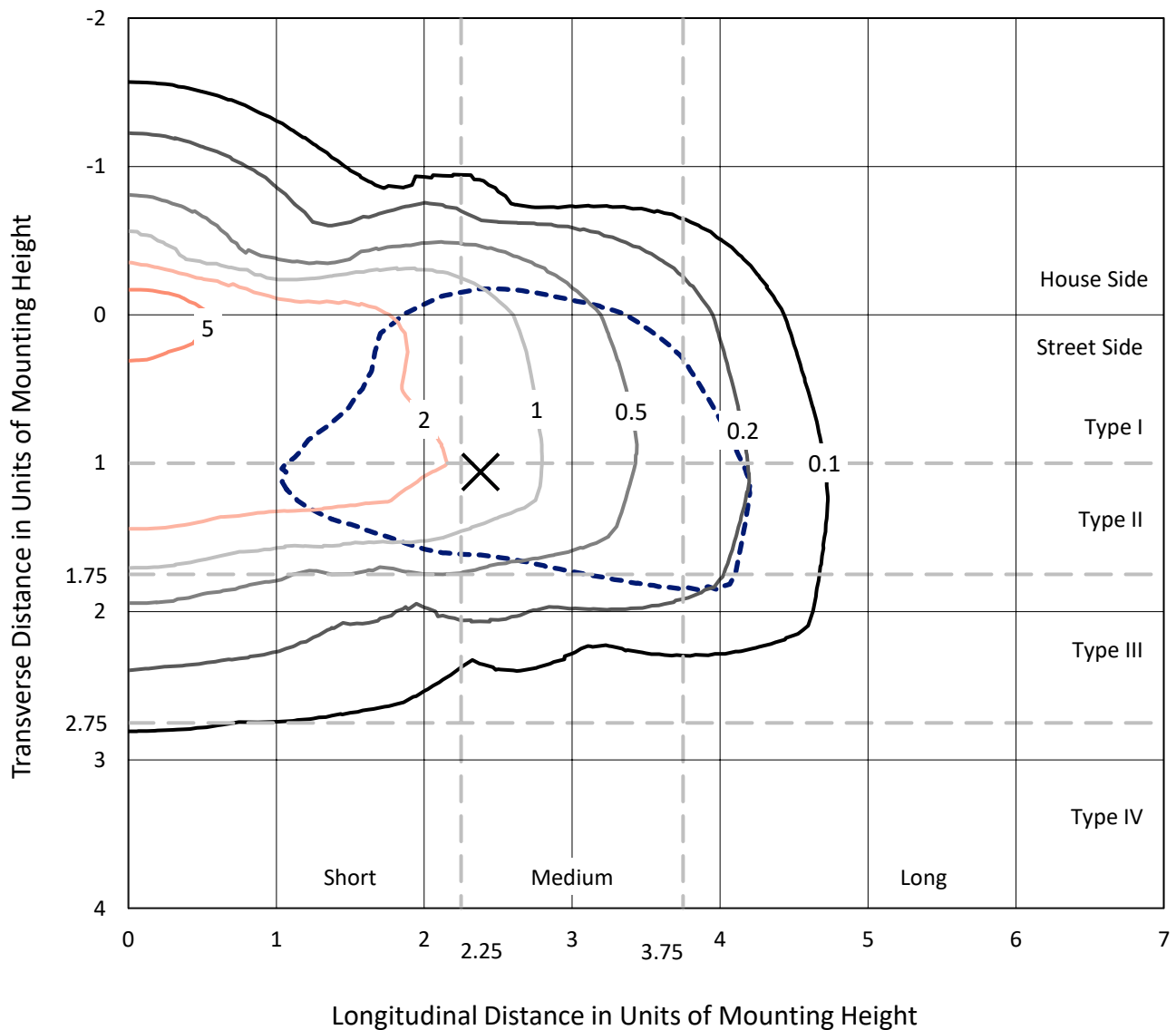


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

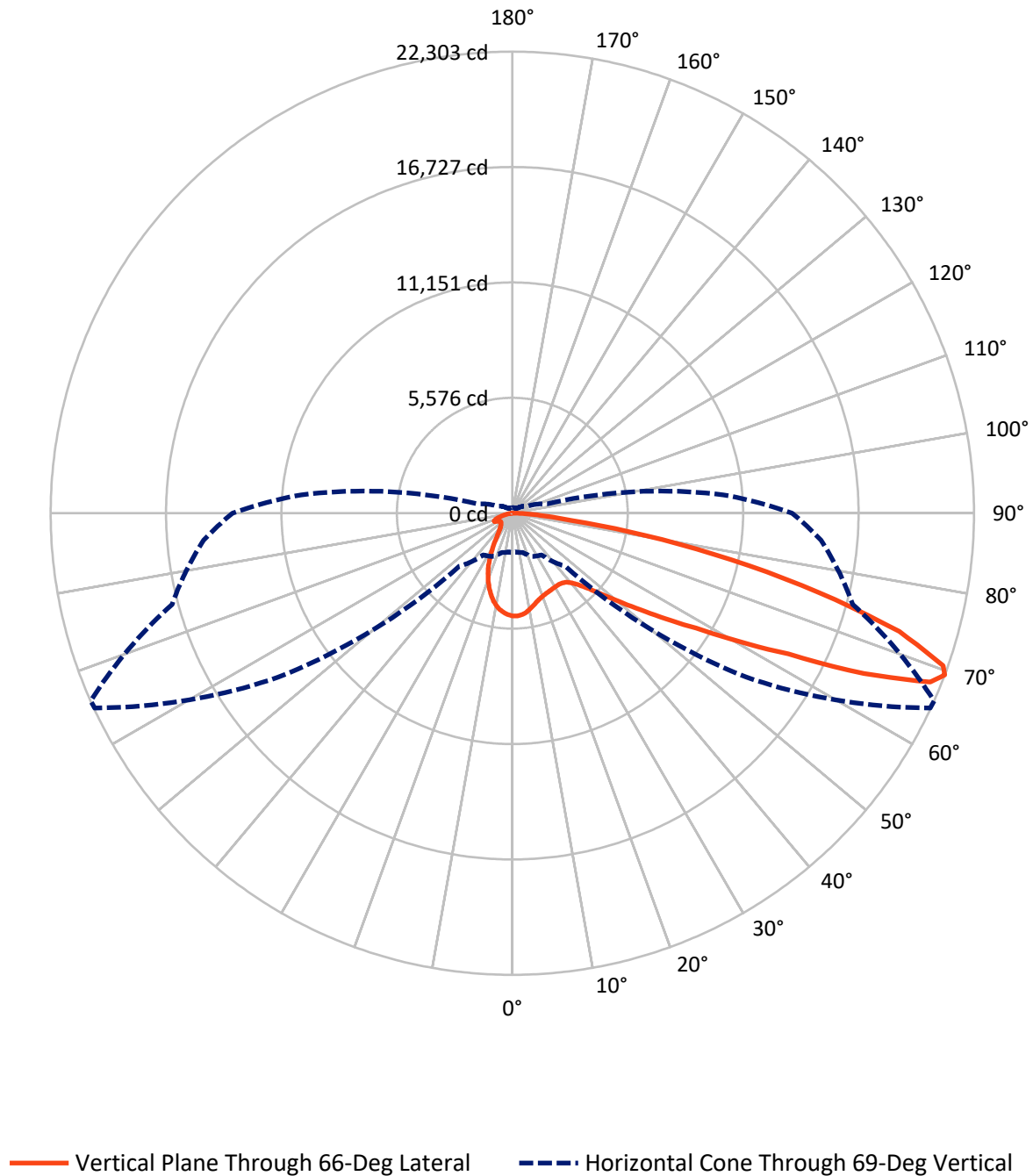


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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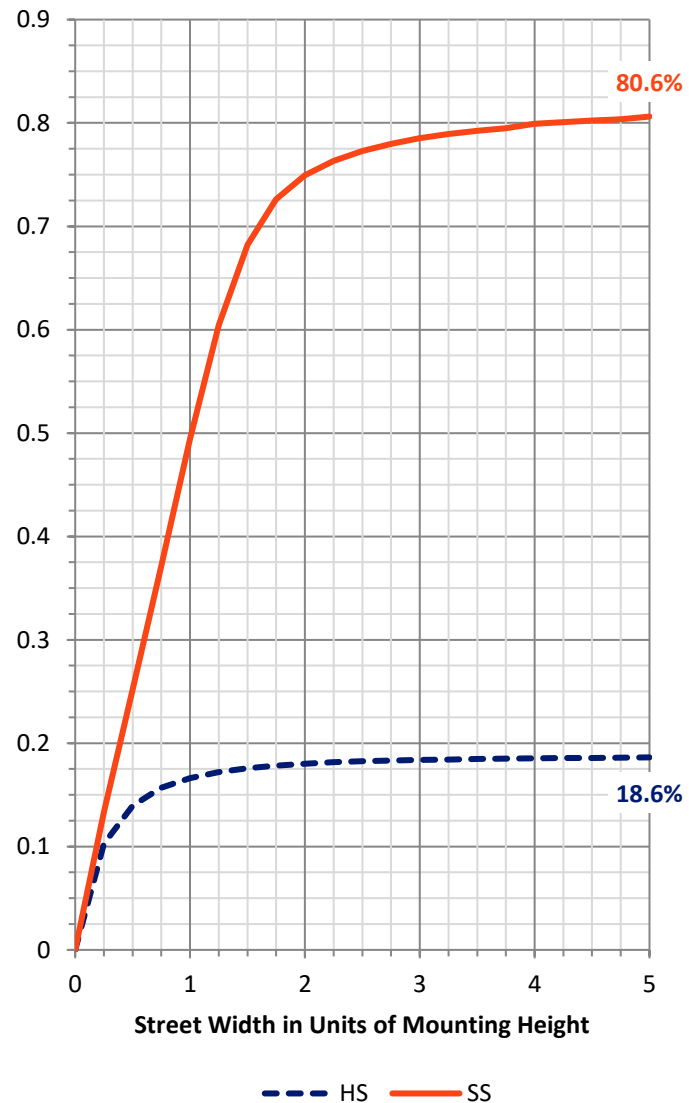
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4045.2	0.0	4045.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	17464.8	0.0	17464.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	21510.0	0.0	21510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.4	2.0
10°-20°	1023.1	4.8
20°-30°	1392.9	6.5
30°-40°	1871.7	8.7
40°-50°	2794.8	13.0
50°-60°	4445.5	20.7
60°-70°	5467.8	25.4
70°-80°	3557.6	16.5
80°-90°	525.3	2.4
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°	21510.0	100.0
0°-180°	21510.0	100.0

Coefficient of Utilization



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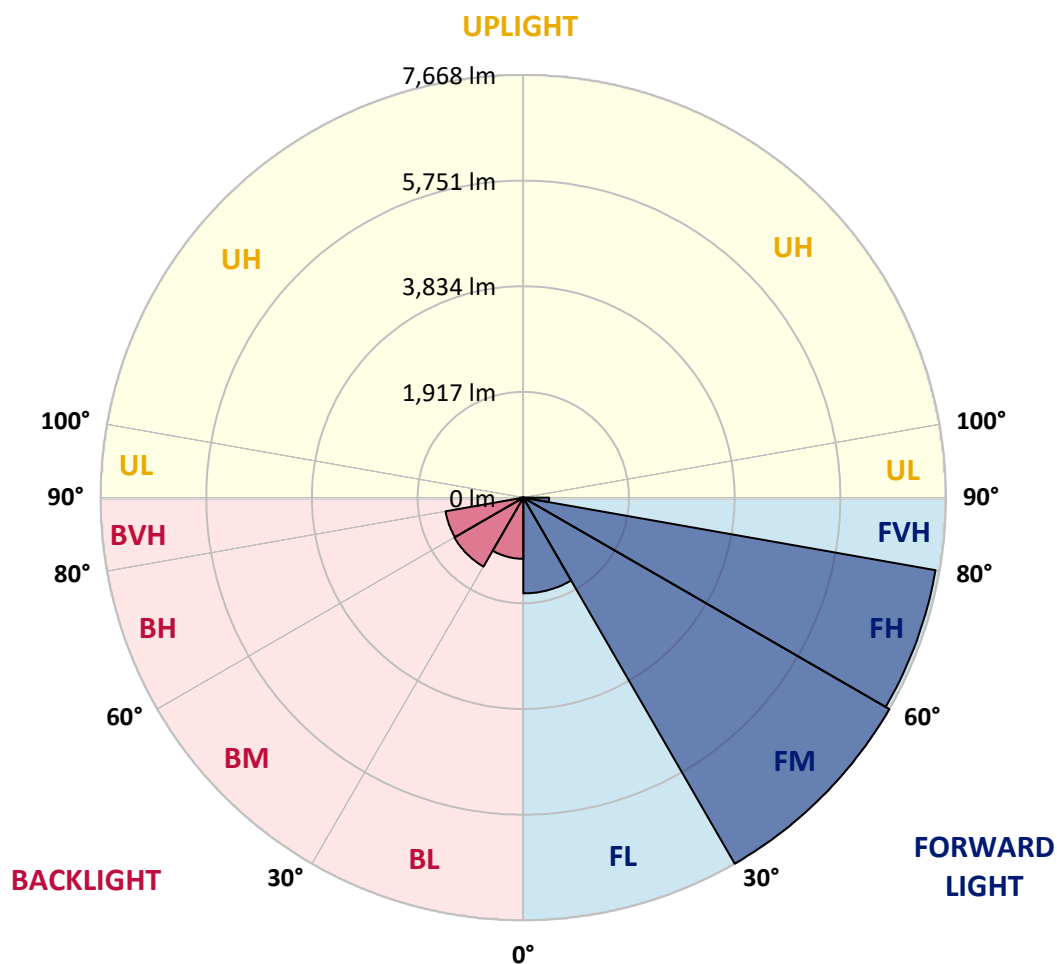
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1736.9	8.1			
FM	(30°-60°)	7667.7	35.6			
FH	(60°-80°)	7593.1	35.3			G4/12000
FVH	(80°-90°)	467.1	2.2			G3/500
BL	(0°-30°)	1110.4	5.2	B3/2500		
BM	(30°-60°)	1444.3	6.7	B2/2500		
BH	(60°-80°)	1432.2	6.7	B3/2500		G3/2500
BVH	(80°-90°)	58.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4967.3	4967.3	4967.3	4967.3	4967.3	4967.3	4967.3	4967.3	4967.3	4967.3	4967.3
2.5°	4793.3	4812.4	4833.8	4857.7	4902.9	4927.9	4945.8	4966.1	4968.4	4979.2	4970.8
5°	4439.6	4462.2	4494.4	4539.6	4607.5	4713.5	4823.1	4912.5	4923.2	4973.2	4987.5
7.5°	4144.1	4157.2	4183.5	4256.1	4352.6	4470.5	4630.2	4811.2	4837.4	4956.5	4998.2
10°	3903.5	3916.6	3947.6	4022.6	4117.9	4265.6	4440.8	4679.0	4700.4	4905.3	5000.6
12.5°	3723.7	3735.6	3768.9	3842.8	3952.4	4090.5	4283.5	4536.0	4567.0	4837.4	4978.0
15°	3586.7	3609.3	3636.7	3697.4	3813.0	3946.4	4133.4	4405.0	4430.0	4765.9	4962.5
17.5°	3528.3	3539.0	3558.1	3614.1	3698.6	3829.7	4017.9	4302.6	4332.4	4715.9	4958.9
20°	3530.7	3541.4	3545.0	3575.9	3636.7	3749.9	3935.7	4221.6	4257.3	4671.8	4964.9
22.5°	3611.7	3612.9	3599.8	3589.1	3612.9	3707.0	3877.3	4160.8	4202.5	4652.8	4969.6
25°	3736.8	3758.2	3739.1	3689.1	3645.0	3690.3	3854.7	4127.5	4166.8	4625.4	4963.7
27.5°	3939.3	3942.8	3927.3	3859.5	3745.1	3711.7	3845.2	4102.5	4135.8	4605.1	4933.9
30°	4210.9	4200.1	4185.8	4110.8	3930.9	3793.9	3865.4	4079.8	4114.4	4575.4	4898.2
32.5°	4486.0	4519.4	4506.3	4418.1	4184.6	3953.6	3930.9	4077.4	4106.0	4552.7	4858.9
35°	4777.9	4793.3	4855.3	4810.0	4570.6	4212.0	4053.6	4114.4	4137.0	4553.9	4831.5
37.5°	5006.6	5048.3	5193.6	5232.9	5007.8	4553.9	4252.5	4219.2	4228.7	4612.3	4842.2
40°	5282.9	5354.4	5541.4	5702.2	5554.5	4998.2	4590.8	4413.4	4425.3	4752.8	4912.5
42.5°	5633.1	5683.2	5934.5	6152.5	6128.7	5585.5	5000.6	4731.4	4737.4	5032.8	5109.0
45°	6042.9	6114.4	6396.7	6724.3	6780.2	6250.2	5592.6	5212.6	5209.1	5467.6	5475.9
47.5°	6567.0	6611.1	6891.0	7248.4	7474.7	7085.2	6310.9	5903.5	5865.4	6101.3	6033.4
50°	7049.5	7118.5	7330.6	7721.3	8284.7	8063.2	7255.5	6799.3	6710.0	6930.3	6816.0
52.5°	7252.0	7324.6	7503.3	7988.1	8979.2	9328.2	8455.1	7867.8	7718.9	7888.1	7846.4
55°	6900.6	6994.7	7161.4	7751.1	9284.1	10787.4	10072.7	9103.1	8994.7	8922.0	8933.9
57.5°	5955.9	6045.3	6270.4	6920.8	8919.6	11846.4	12382.4	10690.9	10458.6	10123.9	10181.1
60°	4533.7	4589.6	4706.4	5427.1	7839.2	12121.5	15005.4	12698.1	12550.4	11321.1	11361.6
62.5°	3219.8	3282.9	3363.9	3723.7	5739.1	11346.1	17059.0	15500.9	14973.2	12561.1	12521.8
65°	2614.7	2571.8	2669.5	2837.4	3367.5	8793.4	17521.2	19391.4	18664.7	14194.2	13648.6
67.5°	2150.1	2104.8	2201.3	2500.3	2561.1	5104.2	15855.9	21916.7	21771.4	15970.3	14793.4
69°	1903.5	1879.7	1964.3	2305.0	2458.6	3624.8	13813.0	22268.1	22302.6	17017.3	14969.7
70°	1715.3	1724.8	1807.0	2206.1	2412.2	2988.7	11805.9	21783.3	22076.3	17540.3	14779.1
72.5°	1262.7	1282.9	1397.3	1827.3	2368.1	2536.0	7025.6	19026.9	19545.0	17571.2	13520.0
75°	882.7	873.1	974.4	1375.8	2237.1	2513.4	4126.3	14714.8	15302.0	15187.7	11360.4
77.5°	577.7	593.2	674.2	972.0	1882.1	2494.3	2689.7	10439.6	10820.8	10157.3	6719.5
80°	407.4	406.2	451.5	663.5	1396.1	2396.7	2202.5	6580.1	6483.6	3991.7	1992.9
82.5°	233.5	250.1	302.6	466.9	933.9	2109.6	2026.2	3147.1	2873.1	1137.6	673.0
85°	129.8	135.8	179.9	282.3	545.6	1589.0	1768.9	1431.8	1350.8	475.3	289.5
87.5°	41.7	45.3	75.0	142.9	247.8	750.4	1001.8	661.1	609.9	171.5	116.7
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°	4967.3	4967.3	4967.3	4967.3	4967.3	4967.3	4967.3	4967.3	4967.3	4967.3	4967.3
2.5°	4974.4	4988.7	4950.6	4913.7	4880.3	4833.8	4792.2	4757.6	4733.8	4730.2	4718.3
5°	4991.1	4992.3	4919.6	4821.9	4726.6	4621.8	4513.4	4436.0	4363.3	4322.8	4302.6
7.5°	5003.0	4992.3	4861.2	4702.8	4519.4	4328.8	4138.2	3985.7	3867.8	3821.3	3839.2
10°	4998.2	4964.9	4773.1	4519.4	4252.5	3967.8	3693.9	3479.5	3282.9	3181.7	3184.0
12.5°	4972.0	4917.2	4642.1	4313.3	3921.4	3540.2	3120.9	2831.5	2603.9	2469.3	2427.6
15°	4949.4	4854.1	4488.4	4033.4	3546.2	3001.8	2490.8	2133.4	1942.8	1836.8	1835.6
17.5°	4925.6	4793.3	4320.4	3736.8	3115.0	2414.5	1878.5	1605.7	1516.4	1527.1	1509.2
20°	4900.6	4721.9	4145.3	3406.8	2589.6	1801.1	1406.8	1296.0	1321.0	1369.9	1377.0
22.5°	4872.0	4645.6	3957.1	3043.5	2036.9	1355.6	1141.2	1124.5	1188.8	1265.0	1275.8
25°	4827.9	4550.3	3720.1	2663.5	1571.2	1092.3	999.4	1011.3	1074.5	1138.8	1145.9
27.5°	4765.9	4432.4	3480.7	2189.4	1180.5	937.5	913.6	929.1	960.1	999.4	1008.9
30°	4682.6	4299.0	3205.5	1779.6	945.8	860.0	850.5	858.8	876.7	893.4	898.2
32.5°	4599.2	4170.4	2927.9	1362.7	843.4	808.8	799.3	799.3	799.3	801.7	802.9
35°	4521.8	4048.9	2630.1	1061.3	789.8	768.3	755.2	740.9	738.5	730.2	730.2
37.5°	4478.9	3938.1	2313.3	888.6	750.4	735.0	717.1	693.3	680.2	681.4	679.0
40°	4487.2	3865.4	2025.0	790.9	718.3	701.6	674.2	646.8	638.5	638.5	636.1
42.5°	4581.3	3841.6	1748.7	739.7	687.3	668.3	633.7	608.7	603.9	602.7	605.1
45°	4798.1	3900.0	1500.9	706.4	661.1	632.5	598.0	575.3	570.6	570.6	569.4
47.5°	5221.0	4089.4	1323.4	684.9	642.1	605.1	569.4	546.8	538.4	536.0	536.0
50°	5878.5	4500.3	1191.2	665.9	618.2	580.1	543.2	517.0	503.9	502.7	501.5
52.5°	6792.2	5141.2	1140.0	651.6	592.0	553.9	513.4	488.4	471.7	468.1	465.8
55°	7860.7	6035.8	1210.2	640.9	564.6	524.1	482.4	456.2	440.7	433.6	432.4
57.5°	9098.3	7110.2	1477.1	626.6	539.6	492.0	451.5	425.3	408.6	400.2	397.9
60°	10209.7	8214.4	1942.8	618.2	518.2	457.4	415.7	391.9	376.4	368.1	366.9
62.5°	11430.6	9267.4	2499.1	640.9	508.6	424.1	382.4	360.9	347.8	339.5	339.5
65°	12735.0	10321.6	2867.2	717.1	522.9	397.9	346.6	328.8	316.9	310.9	309.7
67.5°	13614.1	10686.2	2362.1	795.7	558.7	369.3	312.1	297.8	290.7	284.7	284.7
69°	13518.8	10225.2	1742.7	816.0	569.4	355.0	293.0	282.3	272.8	270.4	268.0
70°	13217.4	9699.8	1460.4	802.9	561.0	341.9	281.1	268.0	259.7	257.3	256.1
72.5°	11772.5	8412.2	1087.6	698.0	477.7	296.6	249.0	237.0	229.9	226.3	226.3
75°	9780.8	6875.5	849.3	555.1	374.0	250.1	213.2	203.7	197.7	195.4	194.2
77.5°	5481.9	3839.2	609.9	434.8	283.5	202.5	178.7	170.3	164.4	162.0	162.0
80°	1527.1	1097.1	358.5	287.1	193.0	153.7	141.8	135.8	127.5	121.5	125.1
82.5°	575.3	475.3	204.9	172.7	122.7	102.4	98.9	94.1	90.5	82.2	82.2
85°	279.9	231.1	131.0	91.7	67.9	53.6	51.2	48.8	46.5	40.5	41.7
87.5°	96.5	102.4	57.2	33.4	20.3	13.1	10.7	6.0	6.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)