

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: P457334

Luminaire Tested: **GALN-SA8C-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37108 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 429
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

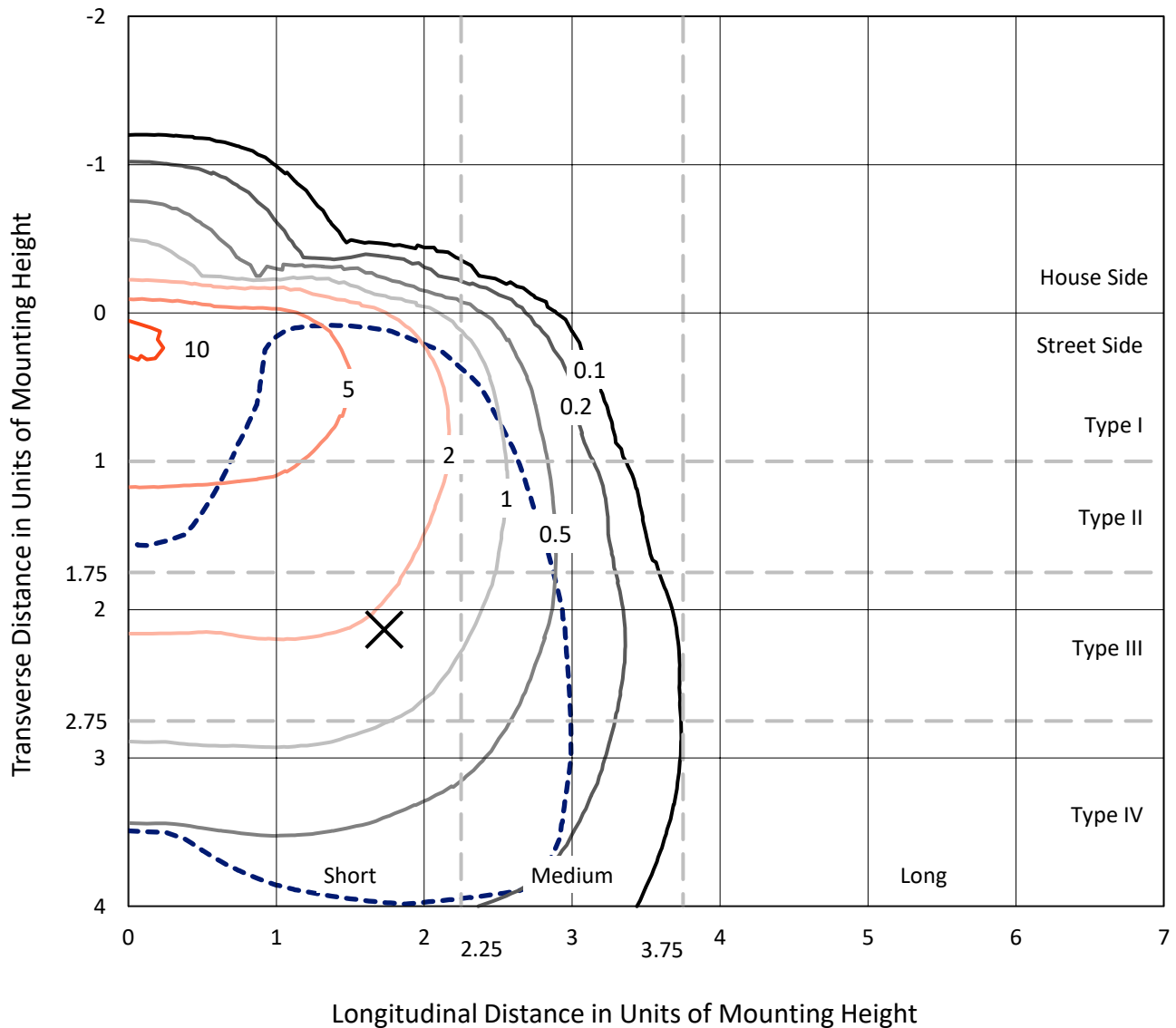


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Iso-Footcandle Lines of Horizontal Illumination

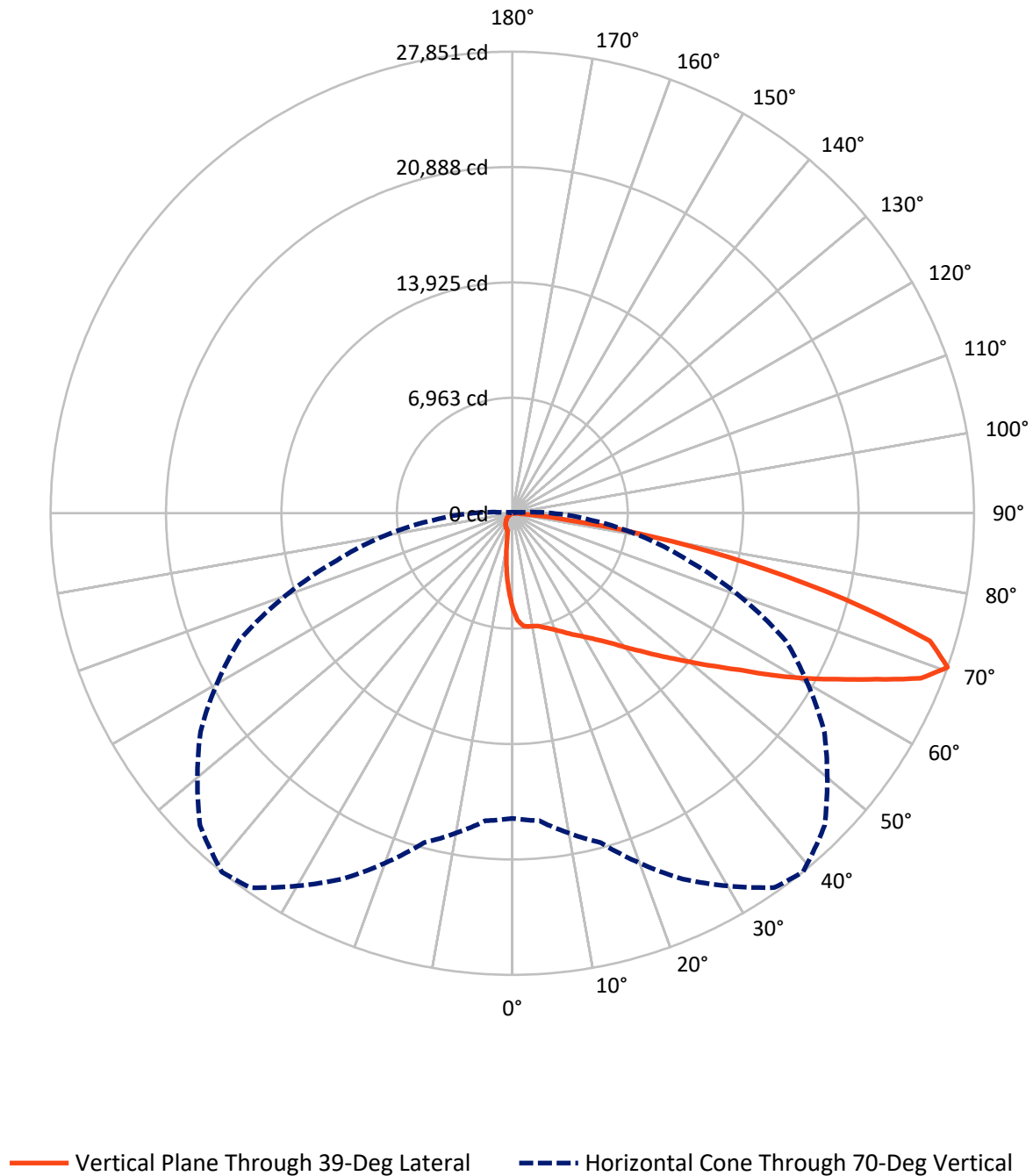
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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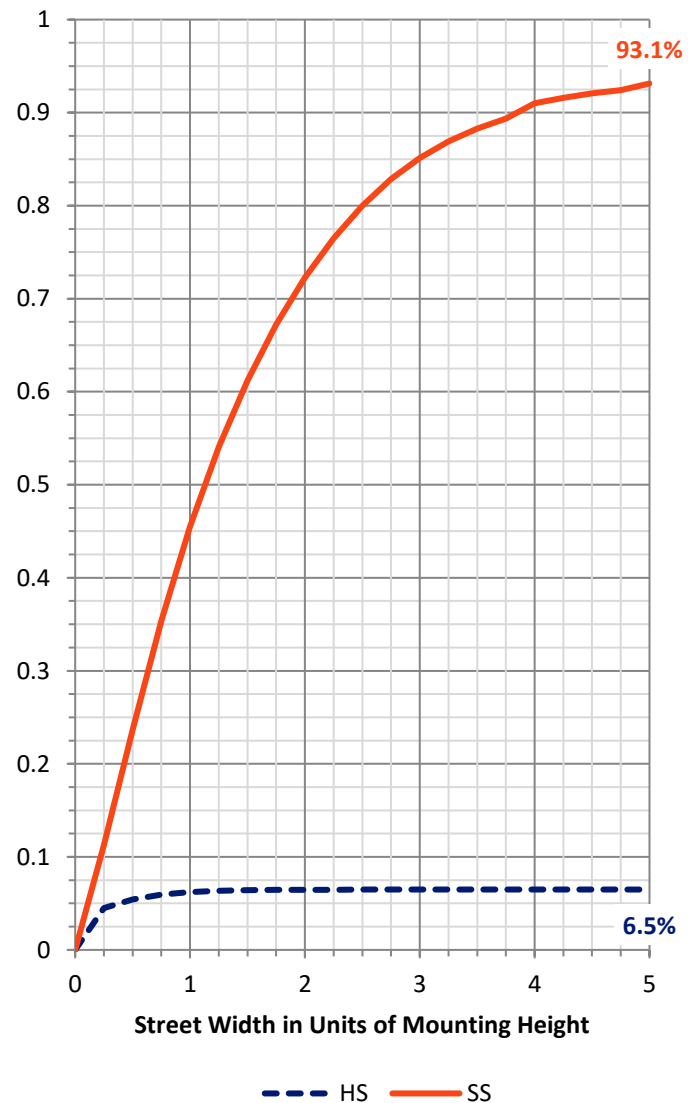
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2419.6	0.0	2419.6
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	34688.4	0.0	34688.4
	% Fixture	93.5	0.0	93.5
Total	Lumens	37108.0	0.0	37108.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.9	1.3
10°-20°	1283.4	3.5
20°-30°	2150.0	5.8
30°-40°	3334.4	9.0
40°-50°	5284.1	14.2
50°-60°	7745.7	20.9
60°-70°	9928.1	26.8
70°-80°	6238.5	16.8
80°-90°	649.9	1.8
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°	37108.0	100.0
0°-180°	37108.0	100.0

Coefficient of Utilization



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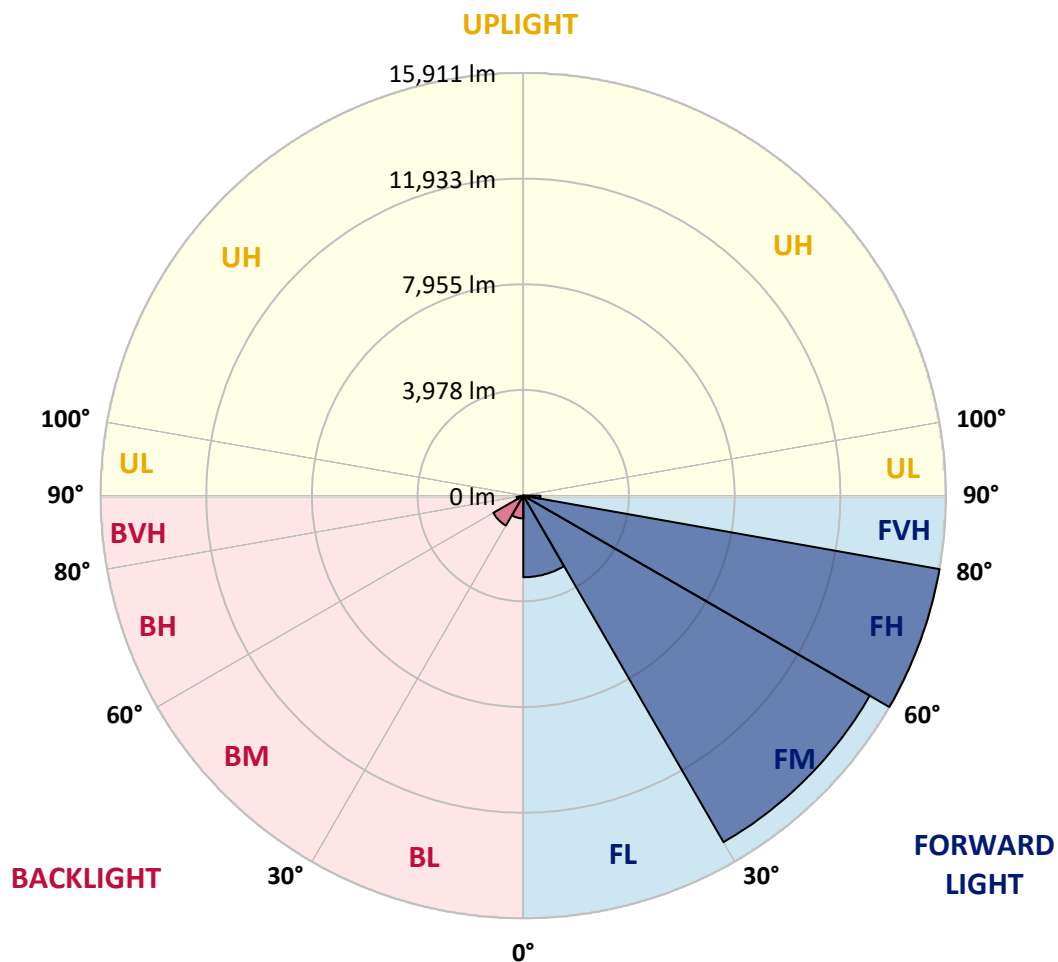
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3070.5	8.3			
FM	(30°-60°)	15062.1	40.6			
FH	(60°-80°)	15910.7	42.9			G5
FVH	(80°-90°)	645.1	1.7			G4/750
BL	(0°-30°)	856.8	2.3	B2/1000		
BM	(30°-60°)	1302.2	3.5	B2/2500		
BH	(60°-80°)	255.9	0.7	B1/500		G1/500
BVH	(80°-90°)	4.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5790.1	5790.1	5790.1	5790.1	5790.1	5790.1	5790.1	5790.1	5790.1	5790.1	5790.1
2.5°	6690.3	6667.9	6637.9	6603.0	6503.3	6485.8	6426.0	6298.8	6146.7	6022.0	5850.0
5°	7007.0	7019.5	6997.0	6934.7	6862.4	6820.0	6745.2	6548.2	6351.2	6099.3	5817.6
7.5°	7079.3	7104.2	7076.8	7017.0	6947.1	6902.3	6842.4	6672.9	6443.4	6156.7	5770.2
10°	7071.8	7101.8	7084.3	7029.4	6972.1	6929.7	6864.9	6730.2	6545.7	6244.0	5785.1
12.5°	7059.4	7099.3	7096.8	7069.3	7022.0	6989.5	6949.6	6829.9	6657.9	6371.1	5867.4
15°	7024.4	7074.3	7119.2	7141.6	7144.1	7144.1	7094.3	6967.1	6802.5	6538.2	5974.6
17.5°	7039.4	7096.8	7209.0	7273.8	7318.7	7313.7	7261.3	7124.2	6942.2	6710.3	6086.9
20°	7131.7	7209.0	7366.1	7495.7	7540.6	7525.7	7455.8	7296.3	7089.3	6857.4	6196.6
22.5°	7358.6	7428.4	7625.4	7777.5	7809.9	7770.0	7670.3	7453.3	7266.3	7017.0	6328.7
25°	7697.7	7780.0	7962.0	8076.7	8076.7	8054.3	7914.7	7660.3	7465.8	7238.9	6500.8
27.5°	8109.2	8179.0	8358.5	8460.8	8400.9	8336.1	8196.4	7889.7	7702.7	7518.2	6707.8
30°	8525.6	8570.5	8760.0	8804.9	8742.5	8660.2	8510.6	8203.9	8039.3	7897.2	7007.0
32.5°	8919.6	9016.8	9173.9	9164.0	9079.2	9039.3	8902.1	8575.5	8483.2	8468.2	7425.9
35°	9313.6	9388.4	9528.0	9562.9	9488.1	9480.6	9380.9	9139.0	9141.5	9238.8	8079.2
37.5°	9652.7	9720.0	9884.6	9961.9	9976.9	10014.3	9974.4	9814.8	10041.7	10308.5	8944.5
40°	9937.0	10031.7	10241.2	10375.8	10530.4	10667.6	10675.1	10710.0	11166.3	11625.1	10074.1
42.5°	10158.9	10291.1	10595.3	10844.6	11198.7	11373.3	11512.9	11704.9	12472.9	13158.7	11405.7
45°	10448.2	10600.3	10979.3	11370.8	11924.4	12211.1	12405.6	12919.3	14009.0	14944.1	12772.2
47.5°	10926.9	11006.7	11393.2	11964.3	12692.4	13101.3	13480.4	14258.4	15657.3	16495.1	13909.3
50°	11542.8	11595.2	11887.0	12679.9	13622.5	14161.1	14851.8	15767.0	17367.9	17781.8	14552.6
52.5°	12223.6	12241.0	12460.5	13467.9	14664.8	15343.1	16116.1	17245.7	18761.8	18699.4	14979.0
55°	13014.1	12989.1	13176.1	14323.2	15899.1	16674.7	17574.8	18759.3	19971.2	19350.3	15223.4
57.5°	13919.2	13851.9	14033.9	15457.8	17480.1	18407.7	19322.8	20065.9	20908.8	19896.4	15340.6
60°	14866.8	14732.1	14949.1	16732.0	19342.8	20223.0	20983.6	21183.1	21896.2	20330.3	15138.6
62.5°	15622.4	15624.8	16028.8	18088.5	21257.9	22028.4	22432.4	22611.9	22746.5	20235.5	14076.3
65°	16801.8	16841.7	17487.6	19971.2	23474.7	24143.0	24419.7	23836.2	22784.0	19058.5	12480.4
67.5°	18018.7	18145.9	19327.8	22564.5	26035.6	26574.2	26217.6	24073.1	21766.6	16372.9	9463.2
70°	18415.2	18624.6	20572.1	24349.9	27571.6	27850.9	26644.0	22968.5	18195.7	10946.9	4762.8
72.5°	16874.1	17213.3	19856.5	23699.1	26591.7	26349.8	23838.7	19263.0	11567.8	4156.8	1453.8
75°	11899.4	12049.0	16502.6	19659.5	21387.5	20701.8	18133.4	12418.1	4757.8	1167.0	498.7
77.5°	6144.2	6071.9	9814.8	13044.0	15253.3	14542.6	11874.5	6428.5	1802.9	486.3	309.2
80°	3176.8	3229.2	4246.6	6834.9	9311.1	8568.0	6331.2	2979.8	960.0	269.3	236.9
82.5°	1780.4	1670.7	2441.2	2984.8	4353.8	3413.7	2428.8	2109.6	418.9	162.1	224.4
85°	324.2	339.1	1339.1	1613.4	1511.1	960.0	783.0	1408.9	122.2	89.8	157.1
87.5°	5.0	5.0	259.3	463.8	294.2	134.7	246.9	202.0	24.9	34.9	27.4
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°	5790.1	5790.1	5790.1	5790.1	5790.1	5790.1	5790.1	5790.1	5790.1	5790.1	5790.1
2.5°	5762.7	5667.9	5490.9	5316.3	5094.4	4912.4	4790.2	4663.0	4533.4	4543.3	4573.2
5°	5662.9	5498.4	5149.3	4780.2	4426.1	4106.9	3792.8	3511.0	3396.3	3291.5	3296.5
7.5°	5563.2	5331.3	4820.1	4241.6	3705.5	3161.9	2767.9	2443.7	2271.7	2142.0	2104.6
10°	5518.3	5211.6	4518.4	3722.9	2962.4	2368.9	1862.7	1598.4	1393.9	1329.1	1346.5
12.5°	5538.3	5151.8	4246.6	3254.1	2349.0	1650.8	1296.7	1162.0	1117.1	1109.6	1104.7
15°	5575.7	5109.4	3979.8	2735.5	1725.6	1226.8	1089.7	1064.8	1059.8	1054.8	1057.3
17.5°	5625.5	5072.0	3695.5	2249.2	1324.1	1072.2	1032.3	1019.9	1017.4	1017.4	1017.4
20°	5675.4	5029.6	3378.8	1815.3	1104.7	1012.4	987.5	980.0	977.5	977.5	975.0
22.5°	5732.8	4992.2	3057.1	1426.3	1017.4	970.0	947.6	942.6	940.1	937.6	937.6
25°	5815.1	4944.8	2715.5	1167.0	962.5	930.1	907.7	902.7	900.2	890.2	892.7
27.5°	5924.8	4909.9	2363.9	1007.4	912.7	880.2	865.3	857.8	852.8	845.3	847.8
30°	6074.4	4880.0	1989.9	920.1	855.3	827.9	812.9	807.9	802.9	795.5	795.5
32.5°	6333.7	4892.4	1595.9	850.3	802.9	770.5	755.6	750.6	745.6	738.1	738.1
35°	6722.7	4964.7	1276.7	790.5	740.6	708.2	693.2	693.2	685.7	675.8	673.3
37.5°	7358.6	5149.3	1024.9	733.1	680.8	650.8	633.4	628.4	620.9	605.9	603.4
40°	8109.2	5436.0	862.8	675.8	625.9	596.0	581.0	566.0	546.1	531.1	528.6
42.5°	9051.7	5730.3	748.1	618.4	573.5	546.1	528.6	503.7	473.8	453.8	451.3
45°	10034.2	5999.6	670.8	566.0	523.7	501.2	481.3	441.4	404.0	379.0	376.5
47.5°	10767.3	6049.5	608.4	516.2	481.3	458.8	431.4	381.5	331.6	309.2	301.7
50°	11113.9	5807.6	543.6	466.3	438.9	413.9	379.0	321.7	266.8	239.4	234.4
52.5°	11236.1	5388.7	491.2	421.4	396.5	366.6	324.2	259.3	209.5	182.0	179.5
55°	11186.3	4860.0	443.9	379.0	346.6	311.7	269.3	207.0	154.6	132.2	127.2
57.5°	10924.4	4186.7	396.5	336.6	296.7	261.8	214.4	154.6	104.7	84.8	82.3
60°	10218.7	3269.1	349.1	289.3	251.9	214.4	169.6	109.7	64.8	47.4	47.4
62.5°	9026.8	2426.3	304.2	241.9	212.0	172.1	119.7	69.8	34.9	24.9	22.4
65°	7543.1	1790.4	254.3	204.5	177.0	134.7	84.8	42.4	17.5	7.5	5.0
67.5°	5264.0	1104.7	212.0	167.1	144.6	97.3	52.4	17.5	7.5	0.0	0.0
70°	2391.4	526.1	162.1	127.2	109.7	69.8	27.4	10.0	5.0	0.0	0.0
72.5°	743.1	276.8	114.7	92.3	74.8	44.9	15.0	7.5	5.0	0.0	0.0
75°	344.1	177.0	72.3	49.9	42.4	22.4	10.0	5.0	2.5	0.0	0.0
77.5°	256.8	137.1	42.4	27.4	22.4	15.0	7.5	5.0	2.5	0.0	0.0
80°	224.4	69.8	24.9	17.5	12.5	10.0	5.0	2.5	0.0	0.0	0.0
82.5°	202.0	34.9	15.0	10.0	7.5	5.0	2.5	2.5	0.0	0.0	0.0
85°	109.7	19.9	10.0	7.5	5.0	2.5	2.5	0.0	0.0	0.0	0.0
87.5°	19.9	10.0	7.5	5.0	5.0	2.5	2.5	2.5	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

(END OF REPORT)