

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: P458262

Luminaire Tested: **GALN-SA9C-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458262
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-SA9C-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 41660 lumens
Efficiency: N/A
Efficacy: 86.6 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): 481
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

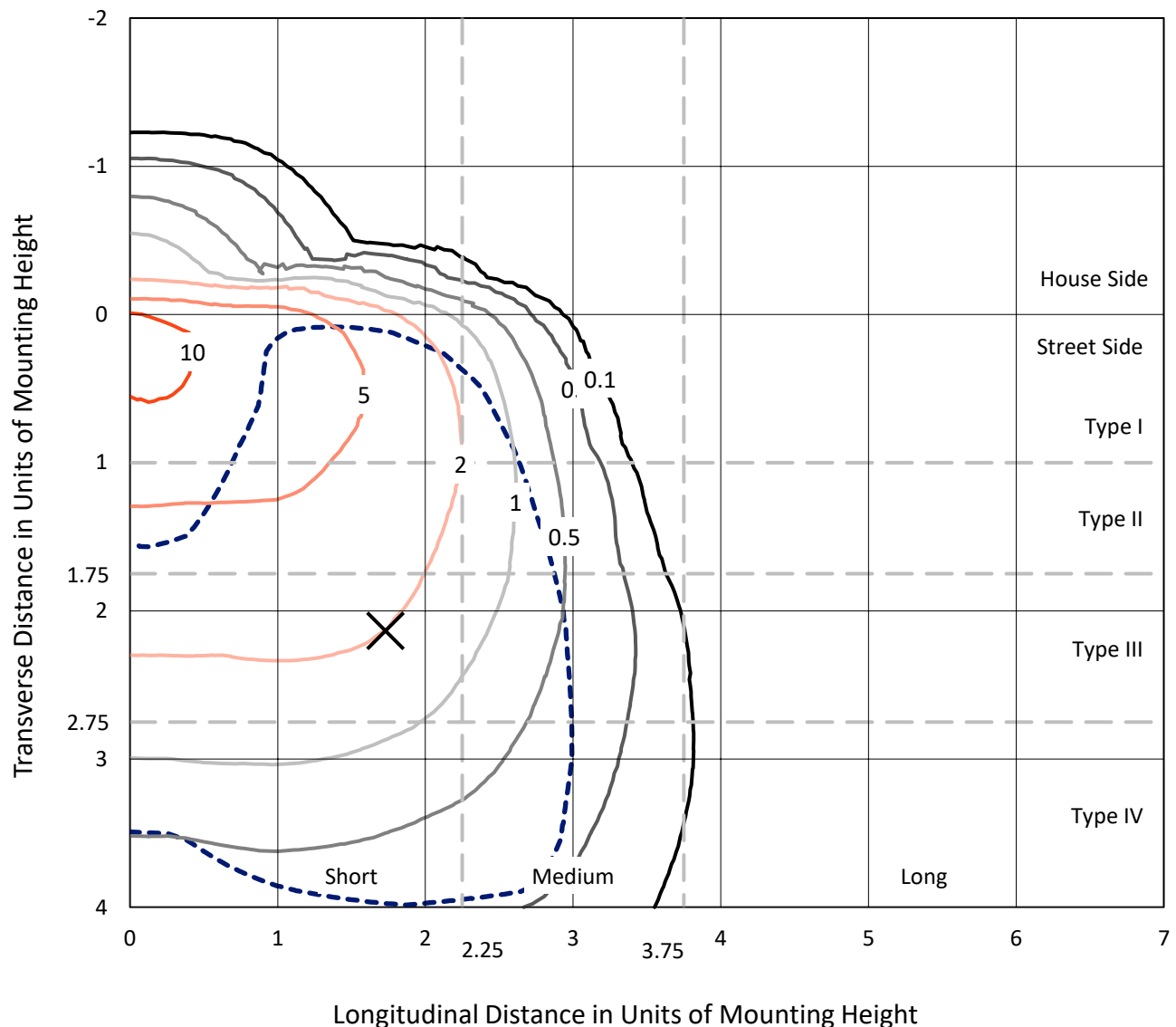


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Iso-Footcandle Lines of Horizontal Illumination

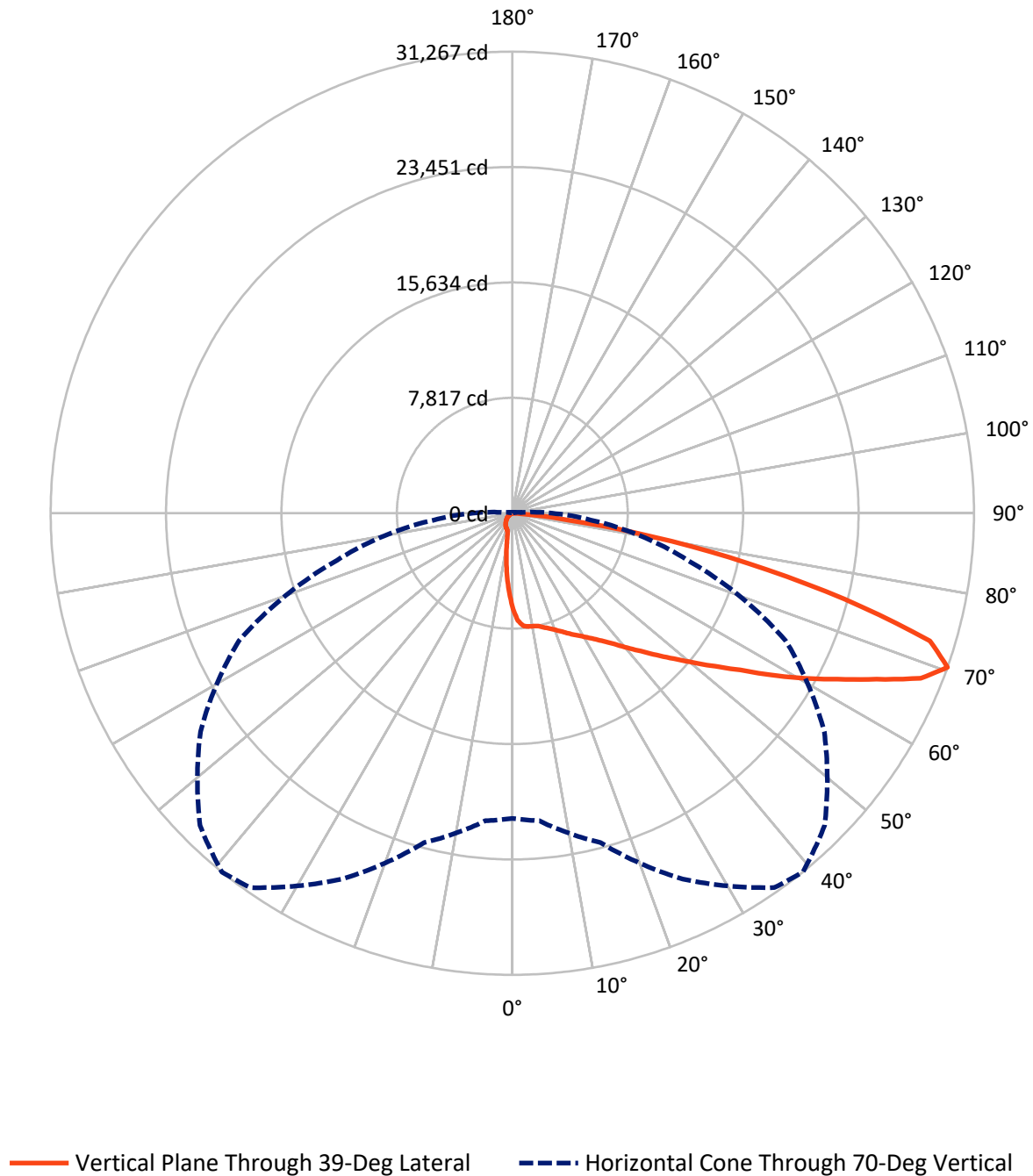
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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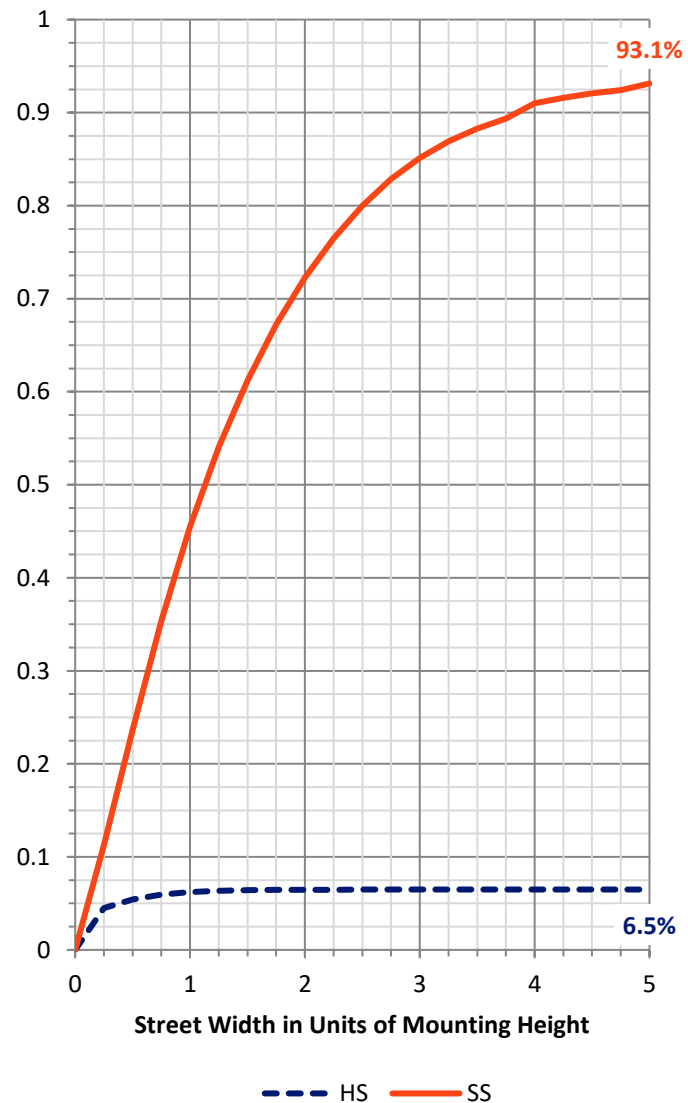
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2716.4	0.0	2716.4
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	38943.6	0.0	38943.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	41660.0	0.0	41660.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.4	1.3
10°-20°	1440.8	3.5
20°-30°	2413.8	5.8
30°-40°	3743.5	9.0
40°-50°	5932.3	14.2
50°-60°	8695.8	20.9
60°-70°	11146.0	26.8
70°-80°	7003.8	16.8
80°-90°	729.6	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°	41660.0	100.0
0°-180°	41660.0	100.0

Coefficient of Utilization



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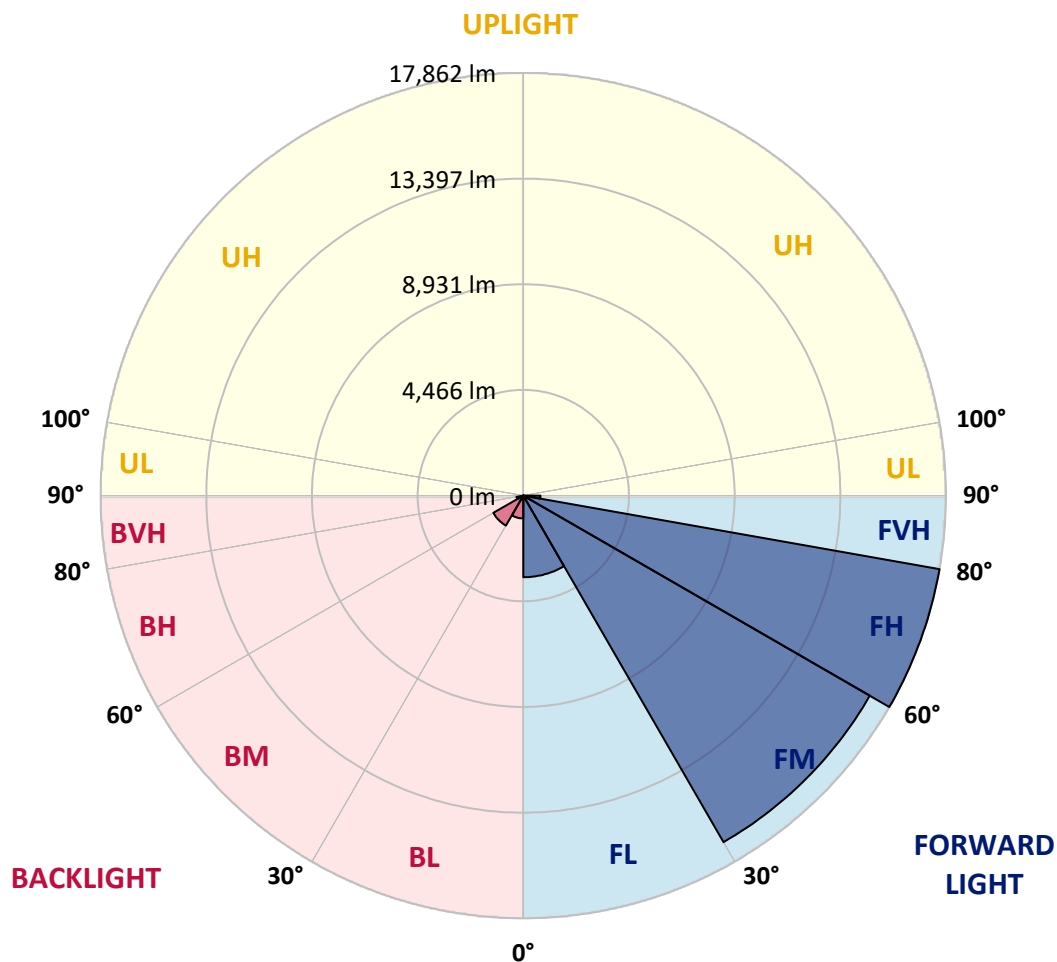
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3447.2	8.3			
FM	(30°-60°)	16909.7	40.6			
FH	(60°-80°)	17862.4	42.9			G5
FVH	(80°-90°)	724.3	1.7			G4/750
BL	(0°-30°)	961.9	2.3	B2/1000		
BM	(30°-60°)	1461.9	3.5	B2/2500		
BH	(60°-80°)	287.3	0.7	B1/500		G1/500
BVH	(80°-90°)	5.4	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°	6500.4	6500.4	6500.4	6500.4	6500.4	6500.4	6500.4	6500.4	6500.4	6500.4	6500.4
2.5°	7511.0	7485.8	7452.2	7413.0	7301.0	7281.4	7214.3	7071.5	6900.7	6760.7	6567.6
5°	7866.5	7880.5	7855.3	7785.3	7704.2	7656.6	7572.6	7351.4	7130.3	6847.5	6531.2
7.5°	7947.7	7975.7	7944.9	7877.7	7799.3	7749.0	7681.8	7491.4	7233.9	6911.9	6478.0
10°	7939.3	7972.9	7953.3	7891.7	7827.3	7779.8	7707.0	7555.8	7348.6	7009.9	6494.8
12.5°	7925.3	7970.1	7967.3	7936.5	7883.3	7846.9	7802.1	7667.8	7474.6	7152.7	6587.2
15°	7886.1	7942.1	7992.5	8017.7	8020.5	8020.5	7964.5	7821.7	7637.0	7340.2	6707.6
17.5°	7902.9	7967.3	8093.3	8166.1	8216.5	8210.9	8152.1	7998.1	7793.7	7533.4	6833.5
20°	8006.5	8093.3	8269.7	8415.2	8465.6	8448.8	8370.4	8191.3	7958.9	7698.6	6956.7
22.5°	8261.3	8339.6	8560.8	8731.6	8768.0	8723.2	8611.2	8367.6	8157.7	7877.7	7105.1
25°	8642.0	8734.4	8938.7	9067.5	9067.5	9042.3	8885.5	8600.0	8381.6	8126.9	7298.2
27.5°	9103.9	9182.3	9383.9	9498.6	9431.4	9358.7	9201.9	8857.5	8647.6	8440.4	7530.6
30°	9571.4	9621.8	9834.6	9885.0	9815.0	9722.6	9554.6	9210.3	9025.5	8865.9	7866.5
32.5°	10013.7	10122.9	10299.3	10288.1	10192.9	10148.1	9994.1	9627.4	9523.8	9507.0	8336.8
35°	10456.1	10540.0	10696.8	10736.0	10652.0	10643.6	10531.6	10260.1	10262.9	10372.1	9070.3
37.5°	10836.8	10912.4	11097.1	11183.9	11200.7	11242.7	11197.9	11018.7	11273.5	11573.0	10041.7
40°	11155.9	11262.3	11497.5	11648.6	11822.2	11976.2	11984.6	12023.8	12536.1	13051.2	11309.9
42.5°	11405.1	11553.4	11895.0	12174.9	12572.5	12768.4	12925.2	13140.8	14003.0	14772.8	12804.8
45°	11729.8	11900.6	12326.1	12765.6	13387.1	13709.0	13927.4	14504.1	15727.5	16777.3	14338.9
47.5°	12267.3	12356.9	12790.8	13431.9	14249.3	14708.5	15134.0	16007.4	17577.9	18518.5	15615.5
50°	12958.8	13017.6	13345.1	14235.3	15293.6	15898.2	16673.7	17701.1	19498.4	19963.1	16337.8
52.5°	13723.0	13742.6	13989.0	15120.0	16463.7	17225.2	18093.0	19361.2	21063.3	20993.3	16816.5
55°	14610.5	14582.5	14792.4	16080.2	17849.5	18720.1	19730.7	21060.5	22421.0	21724.0	17090.8
57.5°	15626.7	15551.1	15755.5	17354.0	19624.3	20665.7	21693.2	22527.4	23473.6	22337.0	17222.4
60°	16690.5	16539.3	16782.9	18784.5	21715.6	22703.8	23557.6	23781.6	24582.2	22824.1	16995.6
62.5°	17538.7	17541.5	17995.0	20307.4	23865.6	24730.6	25184.1	25385.7	25536.8	22717.8	15803.1
65°	18862.9	18907.7	19632.7	22421.0	26354.3	27104.6	27415.3	26760.2	25578.8	21396.4	14011.4
67.5°	20229.0	20371.8	21698.8	25332.5	29229.4	29834.0	29433.7	27026.2	24436.6	18381.4	10624.0
70°	20674.1	20909.3	23095.7	27336.9	30953.8	31267.4	29912.4	25786.0	20427.8	12289.7	5347.0
72.5°	18944.1	19324.8	22292.2	26606.2	29853.6	29582.1	26763.0	21626.0	12986.8	4666.7	1632.1
75°	13359.1	13527.1	18526.9	22071.1	24011.1	23241.3	20357.8	13941.4	5341.4	1310.2	559.9
77.5°	6897.9	6816.7	11018.7	14644.1	17124.4	16326.6	13331.1	7217.1	2024.0	545.9	347.1
80°	3566.5	3625.3	4767.5	7673.4	10453.3	9619.0	7107.9	3345.4	1077.8	302.3	266.0
82.5°	1998.8	1875.7	2740.7	3351.0	4887.9	3832.5	2726.7	2368.4	470.3	182.0	252.0
85°	363.9	380.7	1503.3	1811.3	1696.5	1077.8	879.0	1581.7	137.2	100.8	176.4
87.5°	5.6	5.6	291.1	520.7	330.3	151.2	277.1	226.8	28.0	39.2	30.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6500.4	6500.4	6500.4	6500.4	6500.4	6500.4	6500.4	6500.4	6500.4	6500.4	6500.4
2.5°	6469.6	6363.2	6164.5	5968.5	5719.3	5515.0	5377.8	5235.0	5089.5	5100.6	5134.2
5°	6357.6	6172.8	5780.9	5366.6	4969.1	4610.7	4258.0	3941.7	3812.9	3695.3	3700.9
7.5°	6245.6	5985.3	5411.4	4761.9	4160.0	3549.7	3107.4	2743.5	2550.3	2404.8	2362.8
10°	6195.2	5850.9	5072.7	4179.6	3325.8	2659.5	2091.2	1794.5	1564.9	1492.1	1511.7
12.5°	6217.6	5783.7	4767.5	3653.3	2637.1	1853.3	1455.7	1304.6	1254.2	1245.8	1240.2
15°	6259.6	5736.1	4468.0	3071.0	1937.2	1377.3	1223.4	1195.4	1189.8	1184.2	1187.0
17.5°	6315.6	5694.1	4148.8	2525.1	1486.5	1203.8	1159.0	1145.0	1142.2	1142.2	1142.2
20°	6371.6	5646.5	3793.3	2038.0	1240.2	1136.6	1108.6	1100.2	1097.4	1097.4	1094.6
22.5°	6436.0	5604.6	3432.2	1601.3	1142.2	1089.0	1063.8	1058.2	1055.4	1052.6	1052.6
25°	6528.4	5551.4	3048.6	1310.2	1080.6	1044.2	1019.0	1013.4	1010.6	999.4	1002.2
27.5°	6651.6	5512.2	2653.9	1131.0	1024.6	988.2	971.4	963.0	957.4	949.0	951.8
30°	6819.5	5478.6	2234.0	1033.0	960.2	929.4	912.6	907.0	901.4	893.0	893.0
32.5°	7110.7	5492.6	1791.7	954.6	901.4	865.0	848.2	842.6	837.0	828.6	828.6
35°	7547.4	5573.8	1433.3	887.4	831.4	795.1	778.3	778.3	769.9	758.7	755.9
37.5°	8261.3	5780.9	1150.6	823.0	764.3	730.7	711.1	705.5	697.1	680.3	677.5
40°	9103.9	6102.9	968.6	758.7	702.7	669.1	652.3	635.5	613.1	596.3	593.5
42.5°	10162.1	6433.2	839.8	694.3	643.9	613.1	593.5	565.5	531.9	509.5	506.7
45°	11265.1	6735.5	753.1	635.5	587.9	562.7	540.3	495.5	453.5	425.5	422.7
47.5°	12088.1	6791.5	683.1	579.5	540.3	515.1	484.3	428.3	372.3	347.1	338.7
50°	12477.3	6520.0	610.3	523.5	492.7	464.7	425.5	361.1	299.5	268.7	263.2
52.5°	12614.4	6049.7	551.5	473.1	445.1	411.5	363.9	291.1	235.2	204.4	201.6
55°	12558.5	5456.2	498.3	425.5	389.1	349.9	302.3	232.4	173.6	148.4	142.8
57.5°	12264.5	4700.3	445.1	377.9	333.1	293.9	240.8	173.6	117.6	95.2	92.4
60°	11472.3	3670.1	391.9	324.7	282.7	240.8	190.4	123.2	72.8	53.2	53.2
62.5°	10134.1	2723.9	341.5	271.5	238.0	193.2	134.4	78.4	39.2	28.0	25.2
65°	8468.4	2010.0	285.5	229.6	198.8	151.2	95.2	47.6	19.6	8.4	5.6
67.5°	5909.7	1240.2	238.0	187.6	162.4	109.2	58.8	19.6	8.4	0.0	0.0
70°	2684.7	590.7	182.0	142.8	123.2	78.4	30.8	11.2	5.6	0.0	0.0
72.5°	834.2	310.7	128.8	103.6	84.0	50.4	16.8	8.4	5.6	0.0	0.0
75°	386.3	198.8	81.2	56.0	47.6	25.2	11.2	5.6	2.8	0.0	0.0
77.5°	288.3	154.0	47.6	30.8	25.2	16.8	8.4	5.6	2.8	0.0	0.0
80°	252.0	78.4	28.0	19.6	14.0	11.2	5.6	2.8	0.0	0.0	0.0
82.5°	226.8	39.2	16.8	11.2	8.4	5.6	2.8	2.8	0.0	0.0	0.0
85°	123.2	22.4	11.2	8.4	5.6	2.8	2.8	0.0	0.0	0.0	0.0
87.5°	22.4	11.2	8.4	5.6	5.6	2.8	2.8	2.8	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)