

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: P456172

Luminaire Tested: **GALN-SA7B-830-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26052 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 286
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

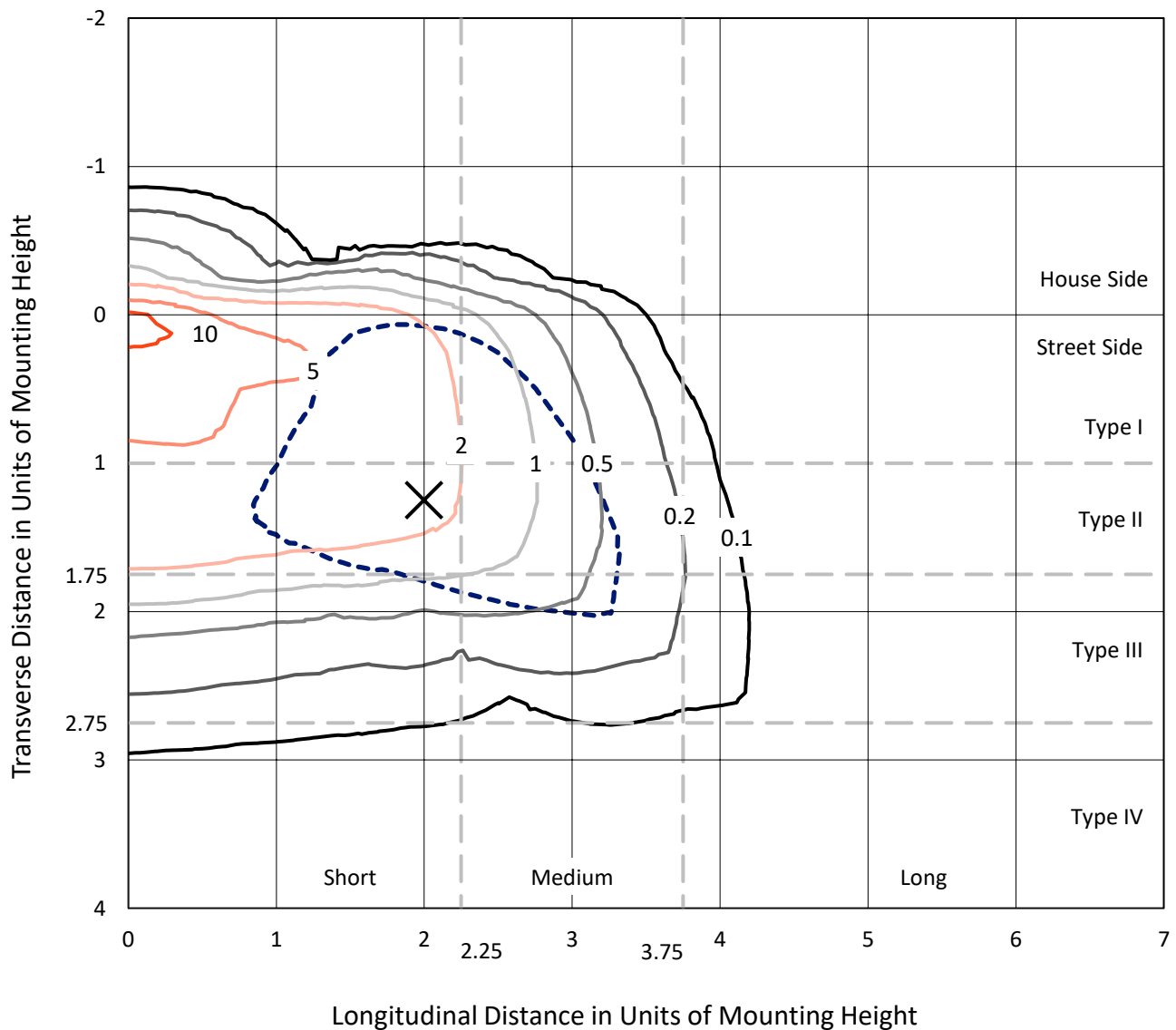


REPORT NUMBER: P456172

CATALOG NUMBER: GALN-SA7B-830-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

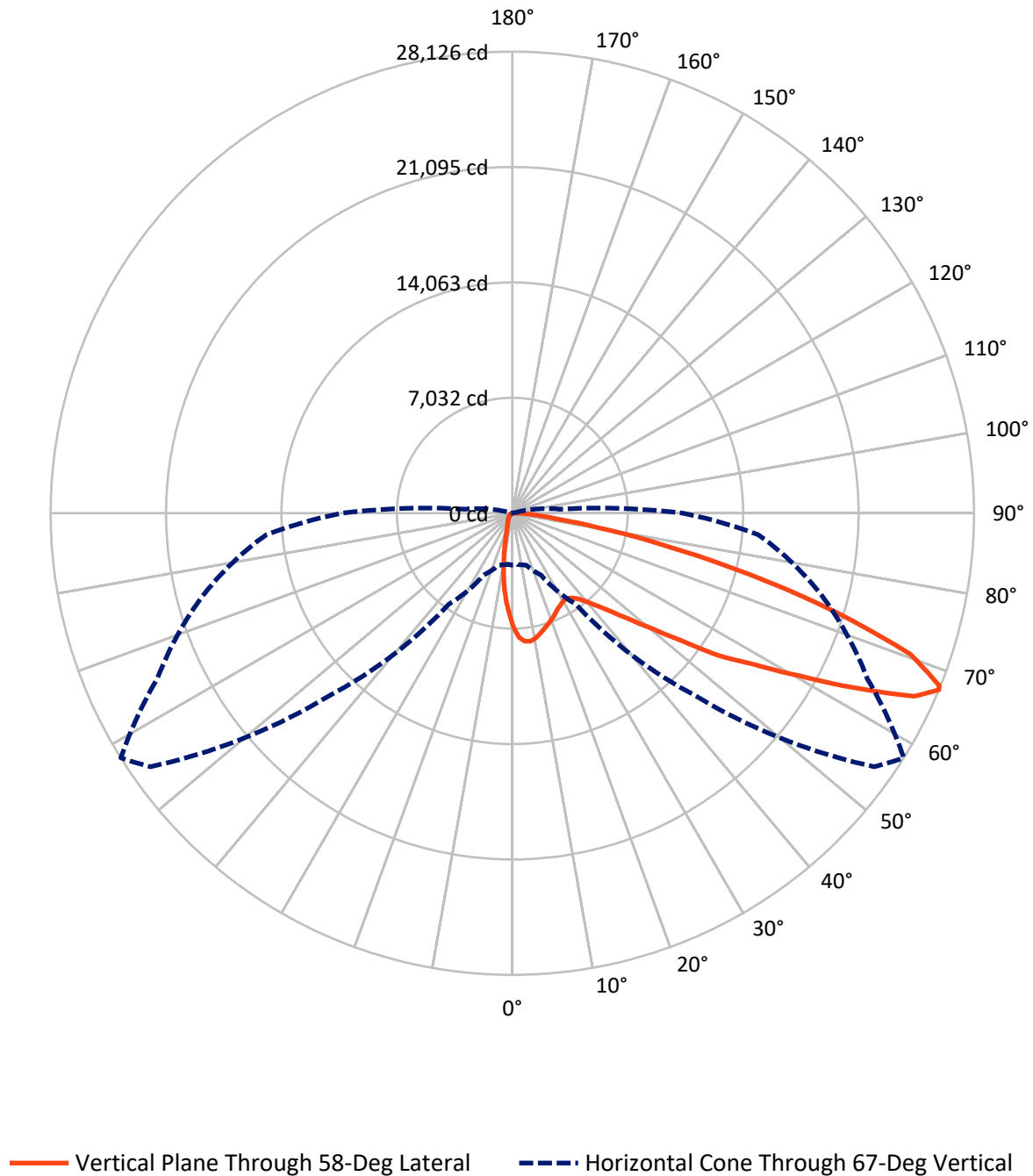


Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type III - Short - N/A

REPORT NUMBER: P456172

CATALOG NUMBER: GALN-SA7B-830-U-SL3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P456172

CATALOG NUMBER: GALN-SA7B-830-U-SL3-HSS

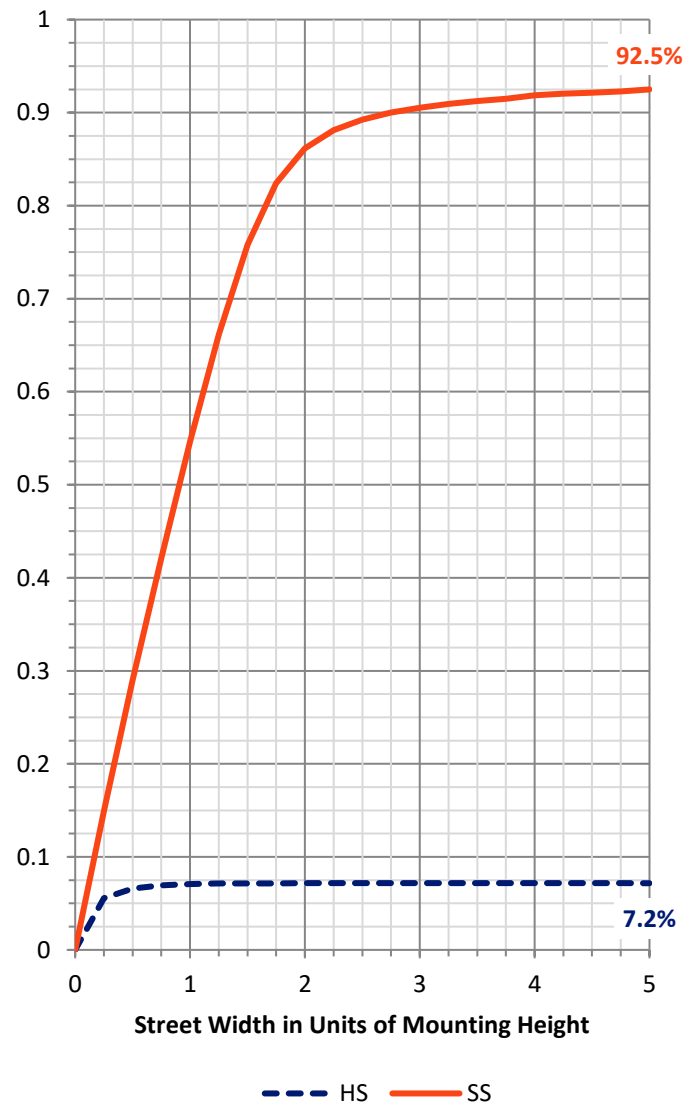
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1880.1	0.0	1880.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	24171.9	0.0	24171.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	26052.0	0.0	26052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.4	2.2
10°-20°	1210.4	4.6
20°-30°	1640.1	6.3
30°-40°	2274.8	8.7
40°-50°	3628.0	13.9
50°-60°	6271.3	24.1
60°-70°	7163.8	27.5
70°-80°	2986.6	11.5
80°-90°	316.7	1.2
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°	26052.0	100.0
0°-180°	26052.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456172

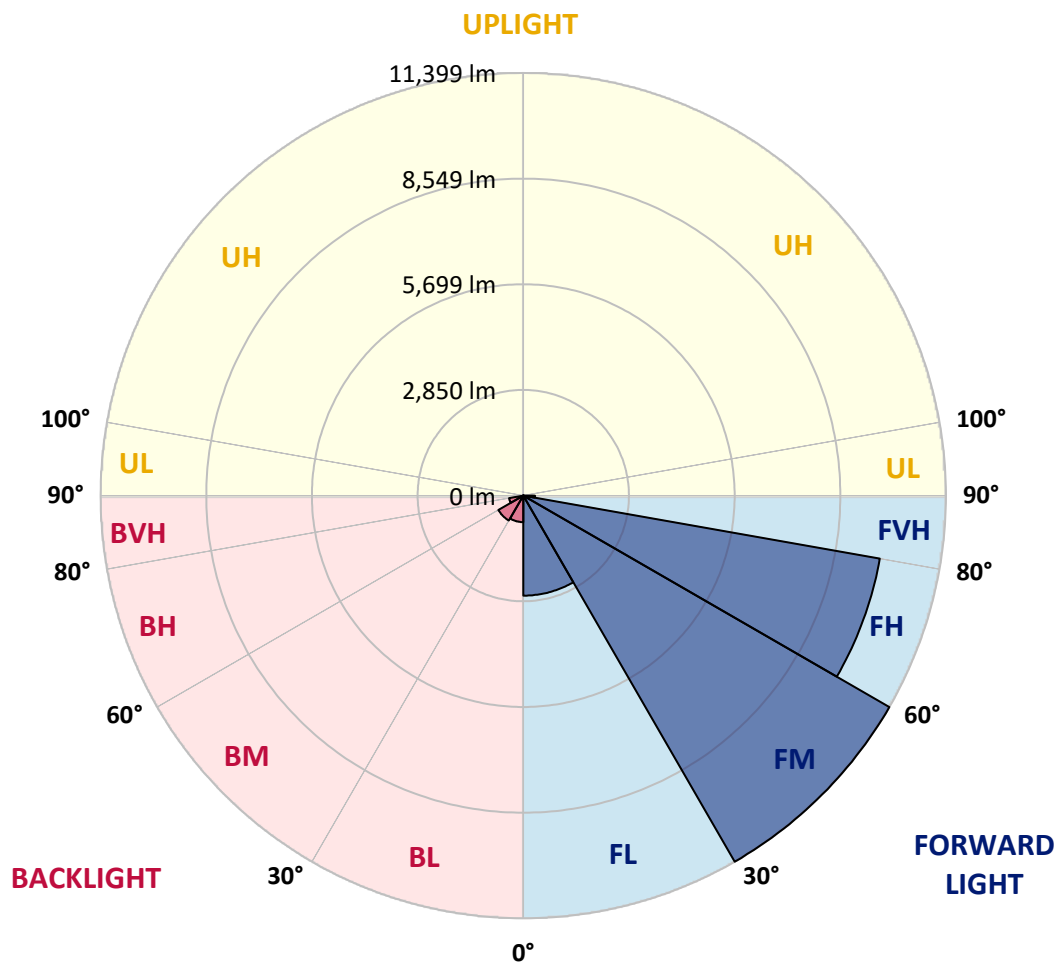
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2697.0	10.4			
FM	(30°-60°)	11398.8	43.8			
FH	(60°-80°)	9761.7	37.5			G4/12000
FVH	(80°-90°)	314.4	1.2			G3/500
BL	(0°-30°)	713.9	2.7	B2/1000		
BM	(30°-60°)	775.2	3.0	B1/1000		
BH	(60°-80°)	388.7	1.5	B1/500		G1/500
BVH	(80°-90°)	2.3	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-G4

Type III Short





REPORT NUMBER: P456172

CATALOG NUMBER: GALN-SA7B-830-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6906.1	6906.1	6906.1	6906.1	6906.1	6906.1	6906.1	6906.1	6906.1	6906.1	6906.1
2.5°	8015.1	8027.3	7982.0	7945.5	7851.5	7750.5	7616.4	7545.1	7423.2	7212.5	6979.3
5°	8203.1	8218.8	8211.8	8203.1	8166.6	8069.1	7898.5	7835.8	7656.5	7313.5	6892.2
7.5°	7785.3	7842.7	7849.7	7917.6	7982.0	7990.7	7926.3	7879.3	7713.9	7311.8	6737.3
10°	7231.7	7270.0	7325.7	7404.0	7559.0	7687.8	7750.5	7743.5	7647.8	7257.8	6556.2
12.5°	6672.9	6693.8	6779.1	6913.1	7102.9	7322.2	7489.3	7522.4	7524.2	7193.4	6404.8
15°	6192.4	6183.7	6249.8	6404.8	6671.1	6946.2	7245.6	7297.8	7381.4	7130.7	6263.8
17.5°	5781.5	5826.8	5837.2	6007.8	6253.3	6610.2	6991.5	7083.7	7250.8	7076.8	6147.1
20°	5527.4	5551.7	5574.4	5670.1	5891.2	6267.2	6752.9	6880.0	7129.0	7028.0	6016.5
22.5°	5452.5	5468.2	5449.0	5478.6	5635.3	5969.5	6493.6	6662.4	7012.3	6982.7	5910.4
25°	5509.9	5525.6	5480.3	5445.5	5499.5	5727.6	6242.9	6448.3	6918.3	6974.0	5830.3
27.5°	5649.2	5678.8	5616.1	5553.5	5522.1	5597.0	6046.1	6284.6	6853.9	7015.8	5793.7
30°	5866.8	5884.2	5837.2	5760.6	5689.3	5614.4	5943.4	6171.5	6836.5	7113.3	5790.2
32.5°	6103.6	6140.2	6114.0	6063.6	5971.3	5793.7	5973.0	6175.0	6878.3	7254.3	5833.8
35°	6396.1	6437.8	6462.2	6451.8	6333.4	6112.3	6161.0	6331.6	6989.7	7513.7	5952.1
37.5°	6683.3	6719.9	6857.4	6904.4	6800.0	6591.0	6526.6	6639.8	7235.2	7853.2	6166.3
40°	7012.3	7061.1	7254.3	7433.6	7383.2	7163.8	7045.4	7139.4	7611.2	8365.0	6571.9
42.5°	7327.4	7414.5	7708.7	8025.5	8072.5	7827.1	7748.7	7780.1	8168.3	9101.4	7137.7
45°	7774.9	7856.7	8236.2	8666.2	8887.3	8695.8	8615.7	8610.5	8932.6	10137.3	8055.1
47.5°	8420.7	8493.8	8941.3	9366.0	9759.5	9785.6	9634.1	9686.4	9893.5	11348.9	9179.8
50°	9212.8	9385.2	9679.4	10121.6	10647.3	11072.1	11119.1	11049.5	11227.1	12752.1	10530.7
52.5°	10363.6	10429.7	10699.6	11063.4	11679.7	12400.4	12959.3	12863.5	12807.8	14089.1	11895.6
55°	11221.8	11310.6	11730.2	12229.8	13133.3	14083.9	15295.5	15328.6	14625.3	15373.9	13230.8
57.5°	10962.4	11098.2	11733.7	12738.2	14724.5	16461.9	17363.7	17386.4	16307.0	16622.1	14738.5
60°	9630.7	9695.1	10605.6	11946.0	14860.3	19038.5	20297.1	20114.3	18018.3	18018.3	16070.2
62.5°	6829.5	6930.5	7668.7	9641.1	13420.6	19933.3	23810.3	23432.5	20375.5	19353.6	16864.1
65°	4364.4	4266.9	4756.1	6086.2	9998.0	18612.0	26869.0	26891.7	22593.4	19888.0	16430.6
67°	3161.5	3123.2	3264.2	4160.7	6779.1	15645.5	26933.4	28126.0	23867.7	19550.3	15044.8
67.5°	2891.6	2921.2	3023.9	3753.4	6159.3	14237.1	26641.0	28052.8	24155.0	19346.6	14543.5
70°	2191.8	2141.3	2252.7	2654.9	3692.4	8981.3	22917.2	25728.7	23798.1	17325.4	11620.5
72.5°	1612.1	1606.8	1761.8	2170.9	2842.9	4784.0	17203.6	20629.7	19442.4	13192.5	7317.0
75°	1088.1	1136.8	1384.0	1814.0	2576.5	3102.3	11728.4	14966.5	13497.2	7491.1	2990.9
77.5°	619.8	623.2	891.3	1457.1	2313.7	2496.4	6949.7	9534.9	7144.6	2491.2	887.9
80°	268.1	294.2	442.2	1058.5	1918.5	2210.9	3984.9	5240.1	2889.9	527.5	287.2
82.5°	99.2	116.6	195.0	651.1	1399.7	1821.0	2407.7	2501.7	980.1	186.3	179.3
85°	0.0	3.5	71.4	304.7	729.4	813.0	1608.6	1483.2	433.5	88.8	116.6
87.5°	0.0	0.0	0.0	31.3	95.7	302.9	499.6	557.1	104.5	31.3	27.9
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°	6906.1	6906.1	6906.1	6906.1	6906.1	6906.1	6906.1	6906.1	6906.1	6906.1	6906.1
2.5°	6853.9	6740.8	6457.0	6173.2	5962.6	5786.7	5522.1	5377.6	5301.0	5187.9	5194.8
5°	6681.6	6451.8	5952.1	5435.1	5017.3	4609.9	4122.4	3925.7	3760.3	3666.3	3603.7
7.5°	6425.7	6086.2	5346.3	4656.9	4014.5	3302.5	2768.0	2411.1	2170.9	2082.1	1996.8
10°	6145.4	5694.5	4731.8	3776.0	2884.7	2150.0	1697.4	1370.1	1253.4	1145.5	1156.0
12.5°	5886.0	5337.6	4167.7	2980.4	2021.2	1366.6	1065.4	931.4	893.1	880.9	880.9
15°	5673.6	4996.4	3561.9	2240.5	1385.8	981.9	853.0	816.5	802.6	799.1	799.1
17.5°	5447.3	4672.6	3015.2	1655.6	1008.0	821.7	778.2	753.8	748.6	745.1	745.1
20°	5245.3	4347.0	2496.4	1232.6	814.7	739.9	712.0	696.4	691.1	687.7	689.4
22.5°	5053.8	4058.0	2009.0	931.4	717.3	673.7	645.9	630.2	619.8	611.1	612.8
25°	4883.2	3779.5	1615.6	762.5	645.9	607.6	579.7	557.1	534.5	524.0	522.3
27.5°	4763.1	3535.8	1258.7	652.8	581.5	539.7	504.9	477.0	447.4	431.7	428.3
30°	4663.9	3288.6	995.8	576.2	517.0	477.0	433.5	393.4	362.1	346.4	339.5
32.5°	4599.5	3053.5	785.1	513.6	463.1	414.3	365.6	325.5	290.7	275.1	271.6
35°	4589.0	2856.8	642.4	461.3	414.3	362.1	311.6	268.1	238.5	222.8	219.4
37.5°	4663.9	2705.4	537.9	419.6	374.3	316.8	261.1	221.1	195.0	182.8	181.1
40°	4864.1	2609.6	466.6	384.7	337.7	275.1	222.8	188.0	161.9	149.7	149.7
42.5°	5245.3	2613.1	419.6	351.7	301.2	235.0	189.8	156.7	134.0	123.6	120.1
45°	5840.7	2731.5	379.5	318.6	266.4	203.7	161.9	128.8	106.2	97.5	97.5
47.5°	6638.0	2966.5	344.7	285.5	235.0	174.1	137.5	104.5	85.3	76.6	76.6
50°	7680.8	3344.3	315.1	257.7	208.9	149.7	111.4	85.3	66.2	59.2	57.4
52.5°	8770.6	3810.8	280.3	233.3	179.3	127.1	90.5	66.2	50.5	45.3	43.5
55°	9973.6	4266.9	247.2	208.9	146.2	106.2	71.4	52.2	36.6	31.3	31.3
57.5°	11187.0	4714.4	207.2	174.1	114.9	78.3	55.7	38.3	24.4	19.1	19.1
60°	12214.1	4858.8	175.8	141.0	87.0	55.7	40.0	24.4	13.9	8.7	8.7
62.5°	12355.2	4371.4	148.0	107.9	62.7	38.3	20.9	13.9	5.2	3.5	3.5
65°	11589.2	3551.4	123.6	81.8	41.8	19.1	8.7	5.2	1.7	0.0	0.0
67°	10384.5	2879.4	101.0	60.9	29.6	12.2	5.2	1.7	0.0	0.0	0.0
67.5°	10076.3	2745.4	97.5	57.4	26.1	10.4	3.5	1.7	0.0	0.0	0.0
70°	7907.2	2056.0	69.6	34.8	15.7	7.0	0.0	0.0	0.0	0.0	0.0
72.5°	4914.6	1162.9	50.5	20.9	10.4	3.5	0.0	0.0	0.0	0.0	0.0
75°	1857.5	407.4	34.8	13.9	7.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	578.0	154.9	20.9	10.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	195.0	59.2	13.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	120.1	24.4	8.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	74.9	10.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.9	3.5	1.7	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

(END OF REPORT)