

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: P457791

Luminaire Tested: **GALN-SA9A-830-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26991 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 274
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

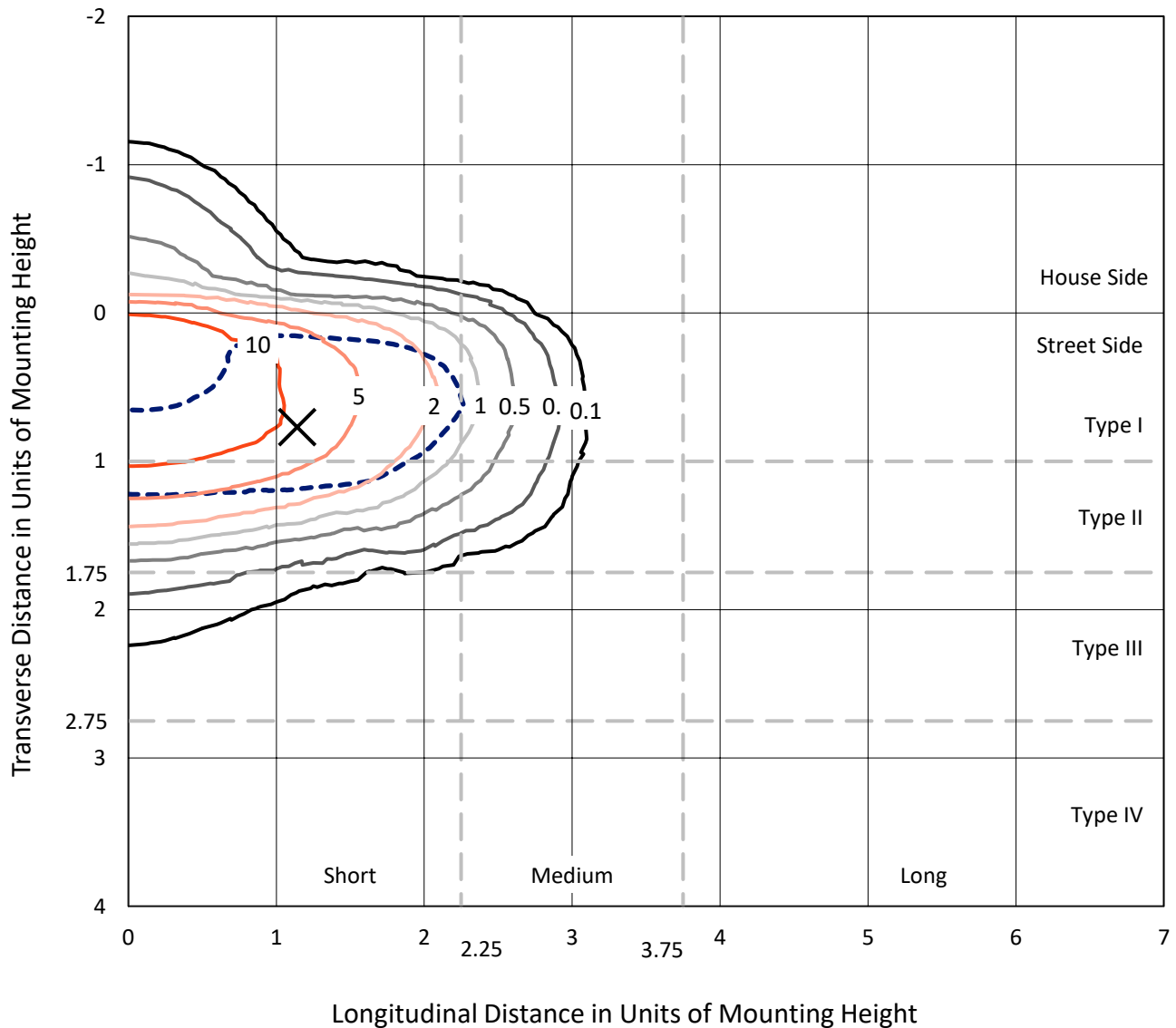


REPORT NUMBER: P457791

CATALOG NUMBER: GALN-SA9A-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

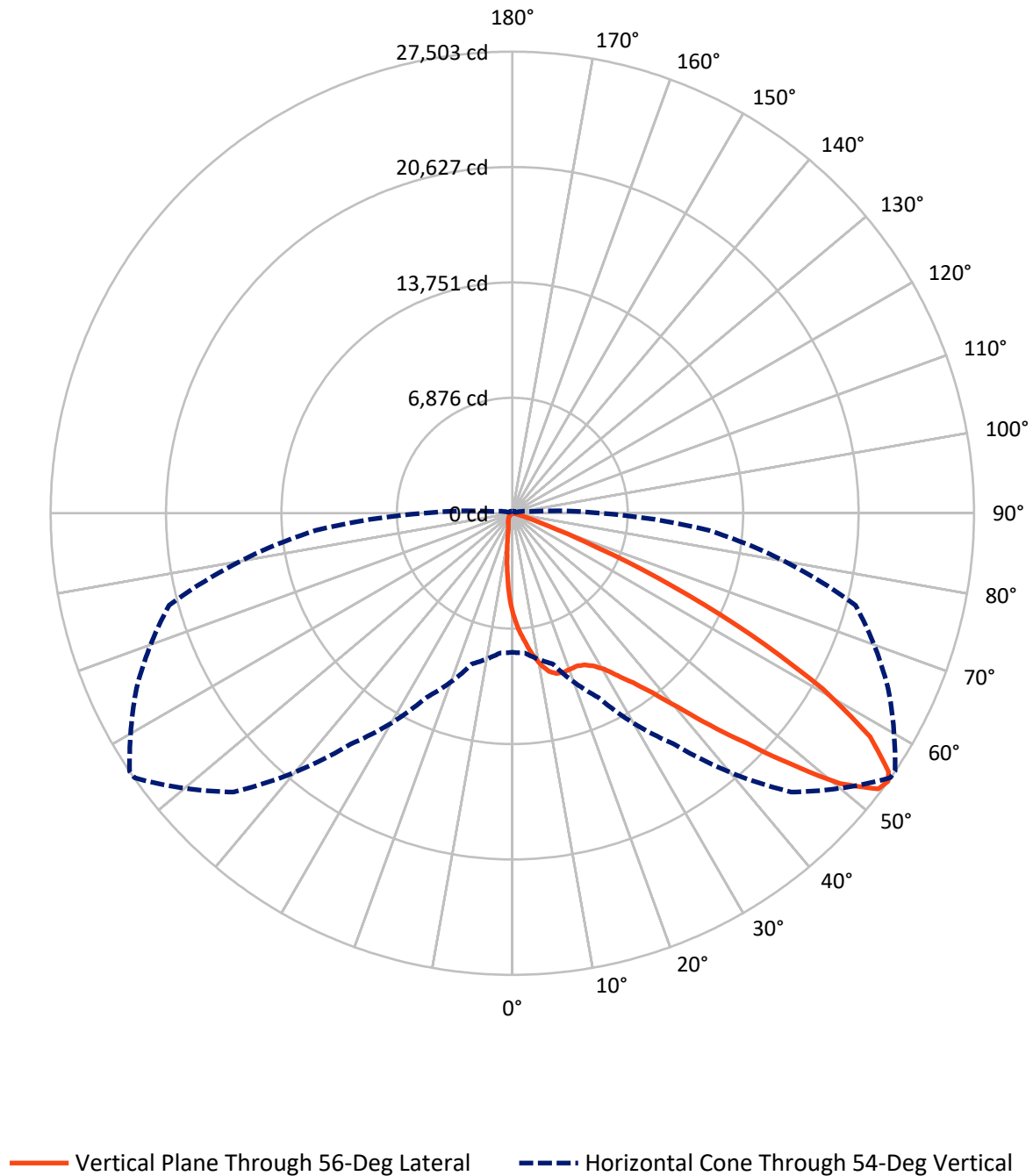


Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Short - N/A

REPORT NUMBER: P457791

CATALOG NUMBER: GALN-SA9A-830-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P457791

CATALOG NUMBER: GALN-SA9A-830-U-AFL-HSS

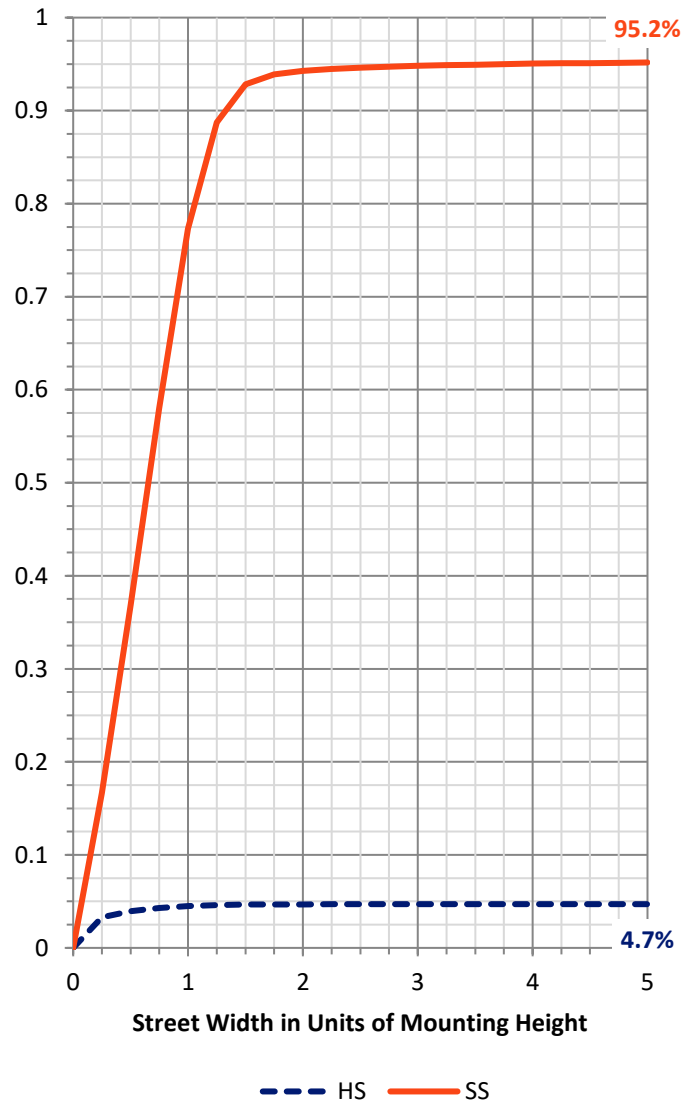
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1276.3	0.0	1276.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	25714.7	0.0	25714.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	26991.0	0.0	26991.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.9	2.0
10°-20°	1432.5	5.3
20°-30°	2481.0	9.2
30°-40°	4282.5	15.9
40°-50°	7289.0	27.0
50°-60°	7213.4	26.7
60°-70°	3292.3	12.2
70°-80°	422.8	1.6
80°-90°	47.6	0.2
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°	26991.0	100.0
0°-180°	26991.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457791

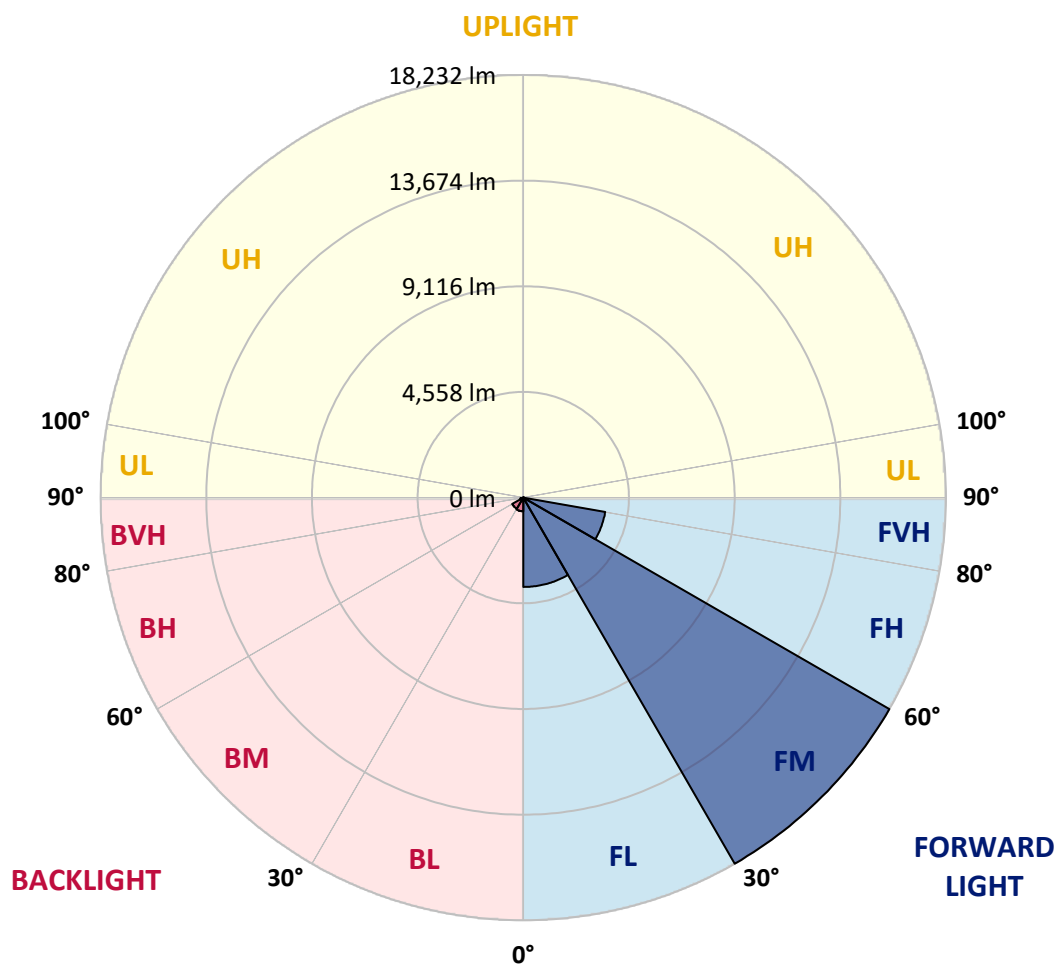
CATALOG NUMBER: GALN-SA9A-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3853.1	14.3			
FM	(30°-60°)	18231.7	67.5			
FH	(60°-80°)	3587.3	13.3			G2/5000
FVH	(80°-90°)	42.5	0.2			G1/100
BL	(0°-30°)	590.3	2.2	B2/1000		
BM	(30°-60°)	553.1	2.0	B1/1000		
BH	(60°-80°)	127.8	0.5	B1/500		G1/500
BVH	(80°-90°)	5.1	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-G2

Type II Short



REPORT NUMBER: P457791

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5996.6	5996.6	5996.6	5996.6	5996.6	5996.6	5996.6	5996.6	5996.6	5996.6	5996.6
2.5°	7621.0	7568.2	7495.3	7438.9	7305.9	7114.7	6912.6	6912.6	6717.7	6446.4	6169.6
5°	8790.1	8755.5	8684.5	8538.8	8389.4	8121.8	7715.7	7644.6	7296.8	6805.2	6288.0
7.5°	9265.4	9281.7	9285.4	9247.1	9176.1	8912.1	8509.6	8460.5	7905.1	7245.8	6442.8
10°	8810.1	8890.2	8968.5	9127.0	9350.9	9414.7	9187.1	9136.1	8589.8	7692.0	6610.3
12.5°	8132.7	8176.4	8220.1	8469.6	8919.4	9434.7	9673.3	9671.4	9208.9	8136.3	6823.4
15°	7817.6	7855.9	7859.5	7970.6	8360.3	9110.6	9880.9	9908.2	9813.5	8684.5	7052.8
17.5°	7883.2	7914.2	7888.7	7916.0	8119.9	8753.7	9857.2	9948.2	10303.3	9210.7	7260.4
20°	8311.1	8371.2	8272.9	8196.4	8258.3	8659.0	9777.1	9904.5	10649.3	9724.3	7449.8
22.5°	9079.6	9112.4	8988.6	8779.1	8669.9	8857.4	9755.2	9880.9	10944.3	10144.9	7559.1
25°	9933.7	9922.7	9786.2	9551.3	9321.8	9258.1	9899.1	10012.0	11188.4	10523.7	7591.8
27.5°	10787.7	10820.5	10591.1	10299.7	10024.7	9859.0	10221.4	10305.2	11463.3	10955.3	7631.9
30°	11780.2	11727.4	11501.6	11168.3	10853.3	10622.0	10740.4	10764.1	11842.1	11527.1	7737.5
32.5°	13071.3	12925.6	12672.5	12089.8	11864.0	11472.4	11501.6	11530.7	12302.8	12093.4	7865.0
35°	14823.1	14815.8	14320.5	13535.7	12985.7	12499.5	12372.0	12395.7	13000.3	12934.7	8147.3
37.5°	16931.9	16961.0	16396.5	15606.2	14593.7	13821.6	13559.3	13563.0	14060.1	14096.5	8577.0
40°	18649.1	18725.6	18388.7	17855.1	16855.4	15648.0	15207.4	15167.3	15549.7	15504.2	9190.7
42.5°	19388.4	19459.4	19585.1	19770.8	19220.9	18224.8	17185.0	17239.6	17356.2	17037.5	9879.0
45°	19026.0	19138.9	19632.4	20779.7	21296.8	20961.8	19721.7	19530.5	19037.0	18703.7	10571.0
47.5°	17516.4	17791.4	18616.3	20526.6	22336.7	23469.3	22584.3	22331.2	20719.6	19920.2	11011.7
50°	15034.4	15050.7	16199.8	18641.8	21797.6	25051.8	25507.1	25317.7	22287.5	20603.0	11233.9
52.5°	10898.8	11257.6	12310.1	15138.2	19463.1	24811.4	27370.0	27291.7	23904.6	20952.7	11554.4
54°	8285.6	8354.8	9290.9	12097.0	16780.7	23491.2	27484.7	27502.9	24707.6	21163.9	11743.8
55°	6792.4	6626.7	7610.0	10305.2	14950.6	22323.9	27109.5	27197.0	25068.2	21273.2	11884.0
57.5°	3219.6	3221.4	3973.5	5435.7	9363.7	17334.3	24816.9	25126.5	25108.2	21460.7	12315.6
60°	1629.8	1640.7	1806.5	2509.4	4625.4	11523.4	20519.3	21256.8	23176.1	21488.1	12457.6
62.5°	1140.0	1127.2	1099.9	1207.3	1946.7	5856.4	15276.6	15917.6	19690.7	20448.3	12006.0
65°	976.1	948.8	872.3	855.9	983.4	2332.7	9514.8	10560.1	15034.4	17705.8	10720.4
67.5°	834.0	823.1	753.9	712.0	695.6	1016.1	4909.5	5459.4	10276.0	12727.1	8119.9
70°	708.4	702.9	661.0	608.2	562.7	608.2	1821.0	2256.2	5727.1	6852.5	3831.4
72.5°	575.4	580.9	588.2	520.8	473.5	431.6	777.6	905.0	2396.5	2449.3	1340.3
75°	504.4	499.0	499.0	453.4	395.2	320.5	427.9	460.7	733.9	681.1	311.4
77.5°	355.1	342.4	400.6	373.3	329.6	227.6	244.0	258.6	304.1	260.4	145.7
80°	245.8	245.8	256.8	335.1	296.8	165.7	149.3	160.2	180.3	154.8	83.8
82.5°	138.4	142.0	167.5	178.5	173.0	111.1	98.3	100.2	120.2	105.6	52.8
85°	16.4	27.3	96.5	94.7	71.0	49.2	54.6	56.5	74.7	65.6	31.0
87.5°	1.8	3.6	20.0	25.5	18.2	20.0	20.0	20.0	25.5	29.1	21.9
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°	5996.6	5996.6	5996.6	5996.6	5996.6	5996.6	5996.6	5996.6	5996.6	5996.6	5996.6
2.5°	6020.3	5881.9	5552.3	5169.9	4925.9	4528.9	4193.8	3951.6	3891.5	3775.0	3809.6
5°	6013.0	5725.3	5053.3	4343.1	3585.6	3021.1	2600.4	2269.0	2123.3	2026.8	1959.4
7.5°	6016.7	5566.9	4488.8	3358.0	2452.9	1899.3	1509.6	1307.5	1172.7	1116.3	1123.6
10°	6027.6	5388.4	3833.3	2487.5	1655.3	1227.4	988.8	892.3	846.8	839.5	837.7
12.5°	6053.1	5193.6	3206.8	1846.5	1158.2	892.3	801.2	768.5	753.9	753.9	748.4
15°	6080.4	4978.7	2686.0	1373.1	892.3	766.7	724.8	708.4	699.3	699.3	697.5
17.5°	6080.4	4731.0	2199.8	1065.3	768.5	704.7	672.0	650.1	642.8	642.8	641.0
20°	6042.1	4443.3	1768.2	857.7	697.5	646.5	613.7	590.0	580.9	577.3	575.4
22.5°	5909.2	4059.1	1407.6	737.5	639.2	595.5	553.6	526.3	519.0	515.3	517.2
25°	5672.5	3625.7	1114.5	648.3	586.4	533.6	497.1	477.1	469.8	469.8	471.6
27.5°	5428.5	3172.2	883.2	580.9	522.6	475.3	446.2	433.4	431.6	437.0	438.9
30°	5202.7	2717.0	715.7	526.3	466.2	426.1	406.1	402.4	402.4	404.3	406.1
32.5°	4951.4	2318.2	599.1	478.9	420.7	386.1	375.1	375.1	378.8	378.8	382.4
35°	4792.9	1975.8	526.3	433.4	386.1	356.9	349.6	351.5	356.9	364.2	367.8
37.5°	4707.3	1702.7	478.9	397.0	353.3	333.2	326.0	329.6	342.4	355.1	356.9
40°	4714.6	1496.9	440.7	366.0	327.8	305.9	300.5	311.4	324.1	336.9	338.7
42.5°	4794.8	1343.9	404.3	329.6	305.9	275.0	273.2	284.1	289.5	302.3	304.1
45°	4889.4	1232.8	366.0	291.4	265.9	238.6	240.4	249.5	256.8	276.8	280.4
47.5°	4918.6	1156.3	322.3	247.7	218.5	209.4	211.2	216.7	231.3	249.5	251.3
50°	4951.4	1109.0	280.4	209.4	185.7	183.9	185.7	189.4	198.5	205.8	204.0
52.5°	5091.6	1107.2	245.8	182.1	158.4	162.1	163.9	162.1	154.8	143.9	140.2
54°	5222.7	1112.6	229.4	169.4	145.7	151.1	149.3	140.2	122.0	111.1	105.6
55°	5328.3	1118.1	220.3	160.2	138.4	140.2	142.0	123.8	100.2	89.2	85.6
57.5°	5535.9	1105.4	198.5	140.2	122.0	114.7	112.9	81.9	54.6	47.3	43.7
60°	5432.1	997.9	180.3	120.2	103.8	92.9	76.5	45.5	27.3	20.0	20.0
62.5°	5024.2	846.8	160.2	98.3	85.6	71.0	40.1	25.5	12.7	7.3	5.5
65°	4494.3	712.0	143.9	78.3	67.4	45.5	21.9	16.4	5.5	0.0	0.0
67.5°	3341.6	528.1	122.0	61.9	51.0	29.1	14.6	9.1	1.8	0.0	0.0
70°	1547.9	322.3	103.8	47.3	36.4	21.9	10.9	5.5	0.0	0.0	0.0
72.5°	444.3	202.1	85.6	34.6	25.5	18.2	9.1	3.6	1.8	0.0	0.0
75°	154.8	162.1	63.7	25.5	20.0	12.7	7.3	3.6	1.8	0.0	0.0
77.5°	92.9	131.1	40.1	21.9	16.4	10.9	7.3	3.6	1.8	1.8	0.0
80°	52.8	87.4	25.5	18.2	14.6	9.1	5.5	3.6	1.8	1.8	0.0
82.5°	29.1	41.9	20.0	16.4	12.7	9.1	5.5	3.6	1.8	1.8	1.8
85°	23.7	21.9	16.4	14.6	10.9	7.3	5.5	1.8	0.0	0.0	0.0
87.5°	18.2	14.6	14.6	14.6	10.9	7.3	5.5	1.8	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)