

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: P455949

Luminaire Tested: **GALN-SA7A-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18922 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 215
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



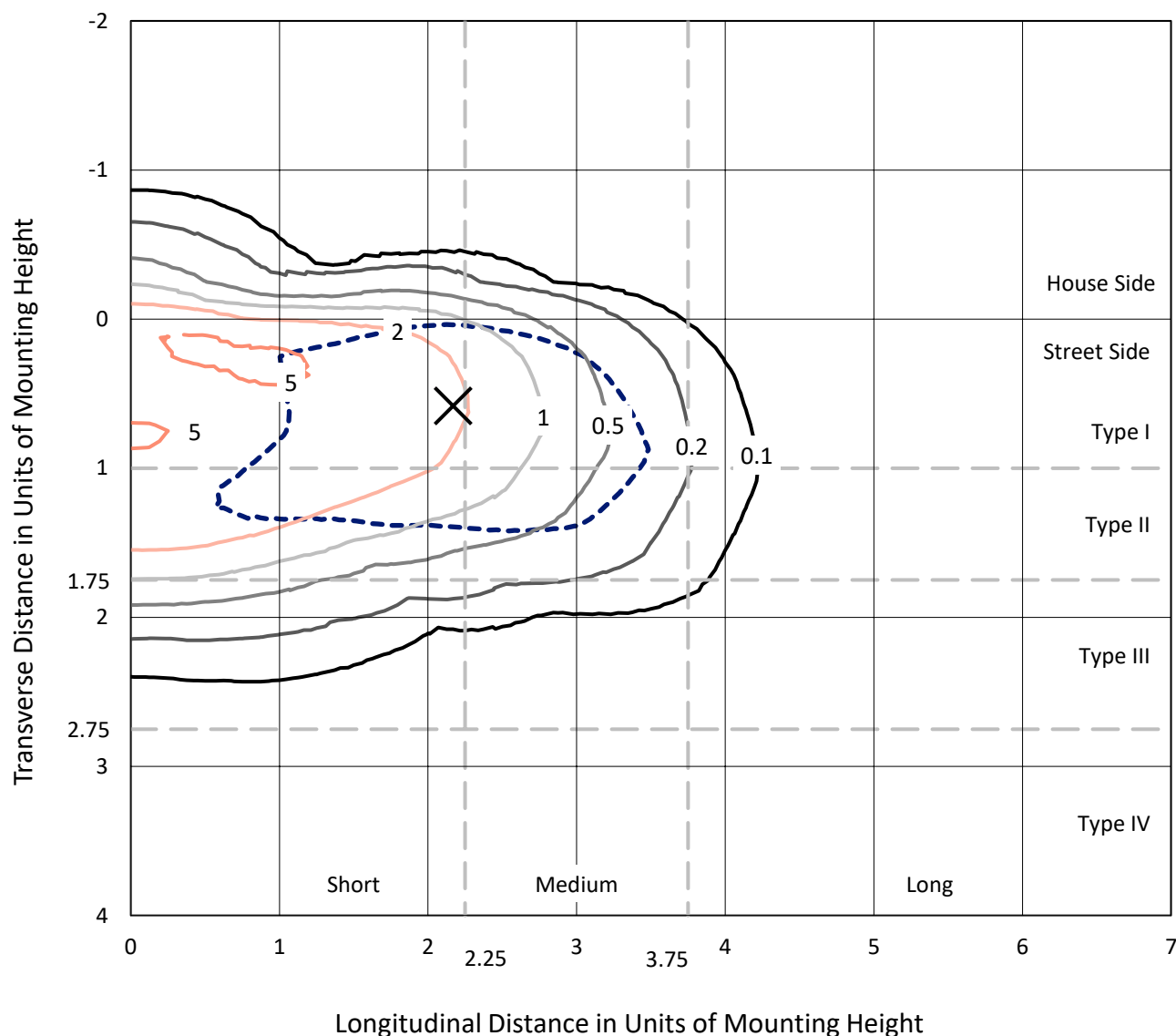
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

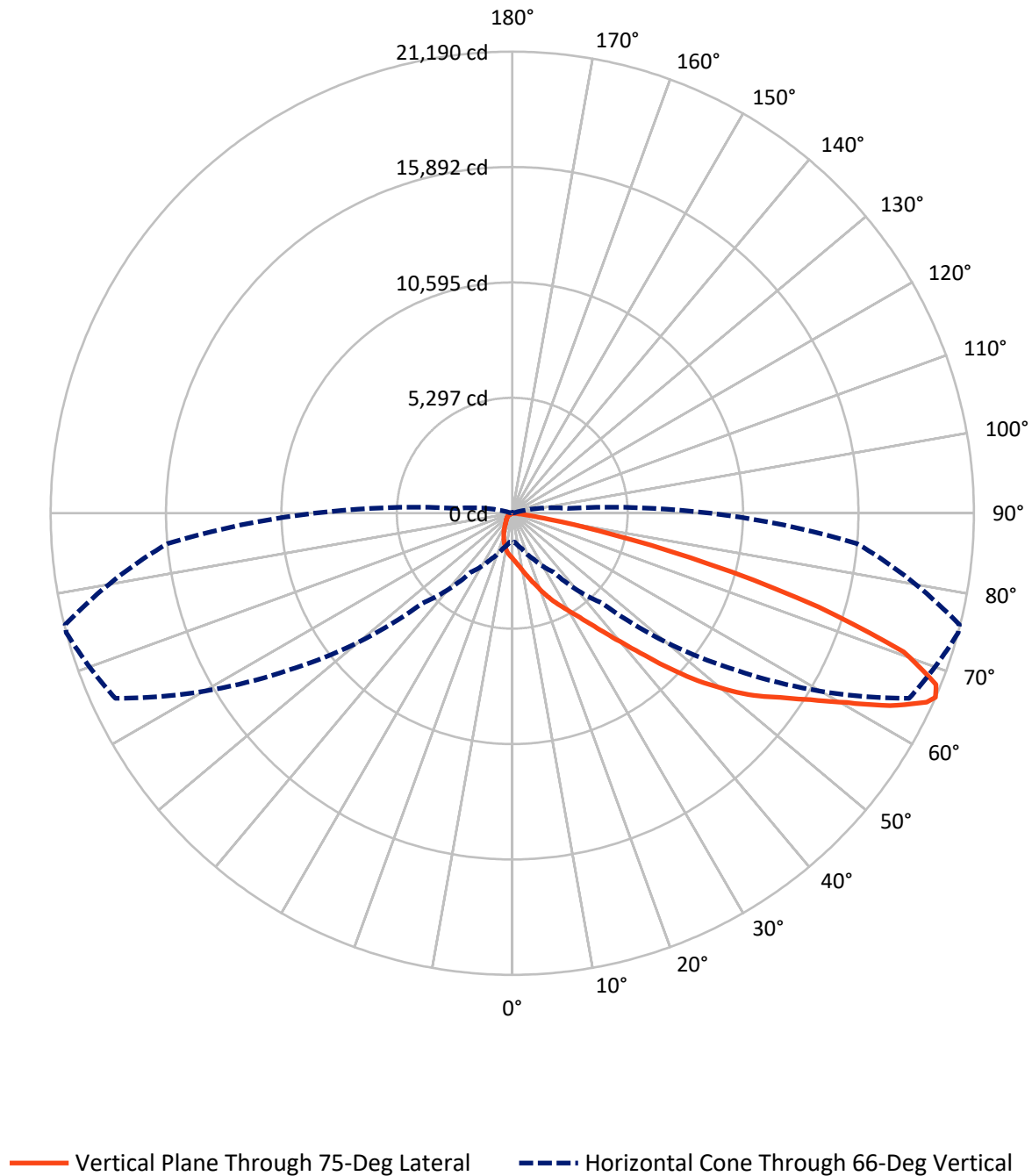


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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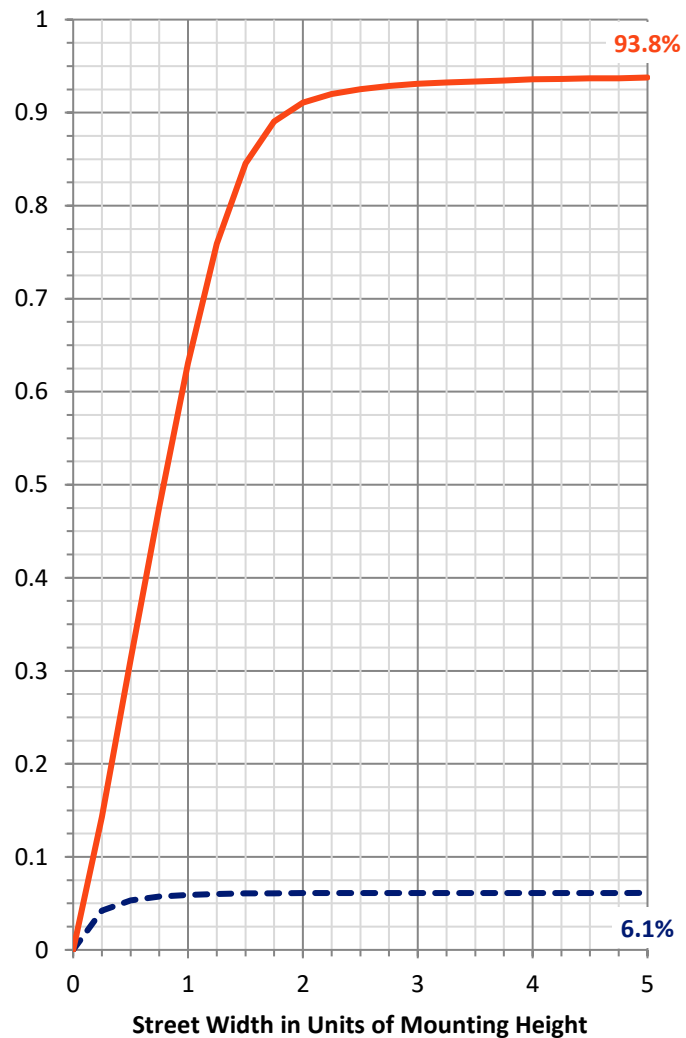
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1168.2	0.0	1168.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	17753.8	0.0	17753.8
	% Fixture	93.8	0.0	93.8
Total	Lumens	18922.0	0.0	18922.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.6	1.1
10°-20°	587.4	3.1
20°-30°	1014.3	5.4
30°-40°	1829.6	9.7
40°-50°	3305.2	17.5
50°-60°	5152.9	27.2
60°-70°	4895.0	25.9
70°-80°	1834.5	9.7
80°-90°	103.5	0.5
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°	18922.0	100.0
0°-180°	18922.0	100.0

Coefficient of Utilization



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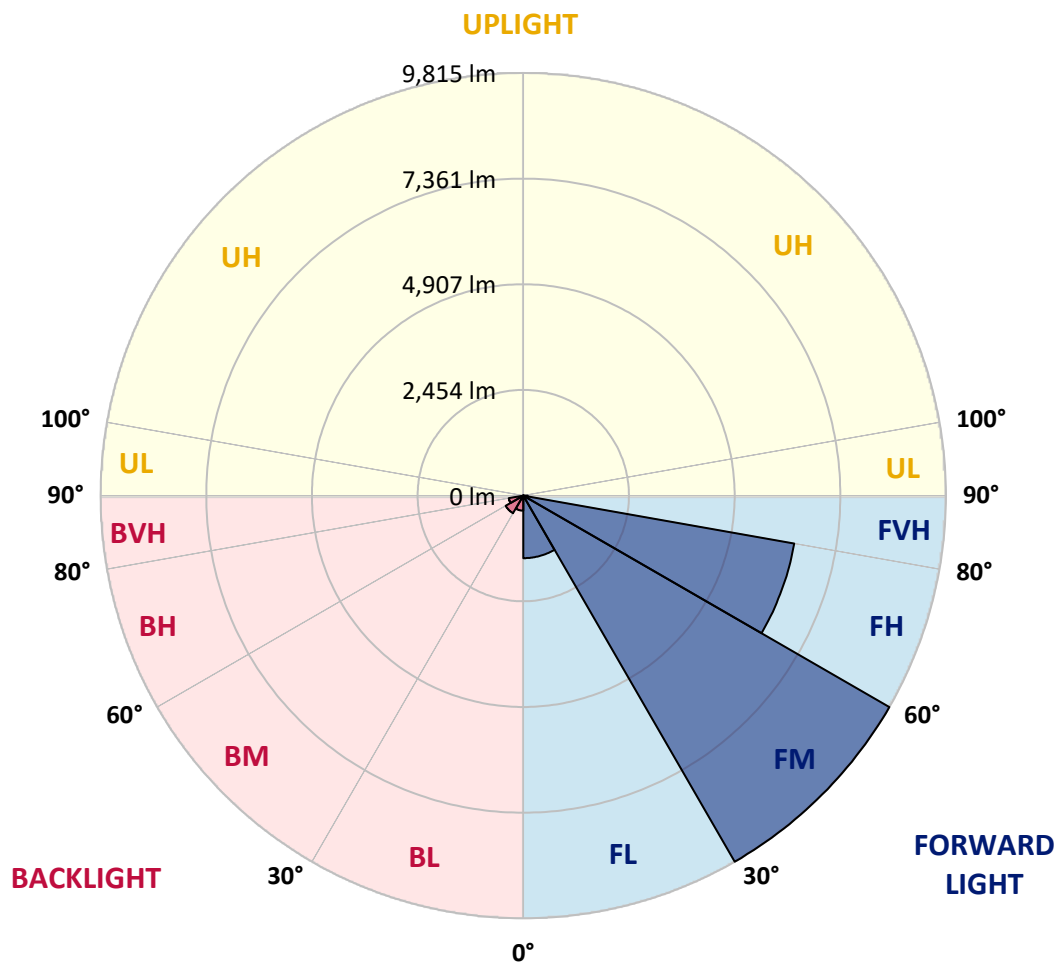
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1452.4	7.7			
FM	(30°-60°)	9814.8	51.9			
FH	(60°-80°)	6388.4	33.8			G3/7500
FVH	(80°-90°)	98.2	0.5			G1/100
BL	(0°-30°)	348.9	1.8	B1/500		
BM	(30°-60°)	472.8	2.5	B1/1000		
BH	(60°-80°)	341.1	1.8	B1/500		G1/500
BVH	(80°-90°)	5.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2069.3	2069.3	2069.3	2069.3	2069.3	2069.3	2069.3	2069.3	2069.3	2069.3	2069.3
2.5°	2472.3	2441.5	2451.3	2437.3	2405.1	2357.5	2315.6	2255.4	2195.2	2185.4	2118.3
5°	2798.3	2789.9	2778.7	2738.1	2715.7	2642.9	2556.2	2452.7	2328.1	2305.8	2184.0
7.5°	3020.7	3016.5	3022.1	3001.1	2981.5	2915.8	2823.4	2682.1	2489.0	2476.5	2273.6
10°	3093.5	3104.7	3125.6	3159.2	3190.0	3169.0	3099.1	2922.8	2697.5	2661.1	2375.7
12.5°	3051.5	3064.1	3114.5	3204.0	3303.3	3360.7	3332.7	3204.0	2918.6	2889.2	2490.4
15°	2943.8	2959.2	3030.5	3169.0	3346.7	3509.0	3579.0	3486.6	3176.0	3128.4	2629.0
17.5°	2784.3	2806.6	2908.8	3092.1	3335.5	3615.3	3812.6	3781.8	3450.2	3405.5	2780.1
20°	2663.9	2680.7	2767.5	2977.3	3287.9	3674.1	4035.1	4121.8	3788.8	3711.9	2957.8
22.5°	2743.7	2749.3	2778.7	2904.6	3202.6	3689.5	4231.0	4475.8	4148.4	4079.9	3142.4
25°	3134.0	3078.1	3048.7	3020.7	3184.4	3675.5	4408.6	4845.2	4506.6	4433.8	3325.7
27.5°	3749.7	3724.5	3576.2	3377.5	3339.7	3693.7	4526.2	5195.0	4843.8	4765.4	3504.8
30°	4419.8	4376.5	4285.5	3994.5	3702.1	3822.4	4611.5	5534.9	5242.5	5139.0	3668.5
32.5°	5035.5	5063.4	4927.7	4628.3	4289.7	4096.6	4722.1	5905.7	5700.0	5571.3	3858.8
35°	5753.2	5809.2	5600.7	5313.9	4917.9	4591.9	4937.5	6324.1	6280.7	6118.4	4152.6
37.5°	6482.2	6515.7	6388.4	5985.5	5628.7	5221.5	5343.3	6840.3	6995.6	6857.1	4503.8
40°	7095.0	7141.1	7047.4	6689.2	6308.7	5950.5	5932.3	7402.8	7846.3	7703.6	5027.1
42.5°	7563.7	7598.7	7601.5	7348.2	7005.4	6843.1	6683.6	8120.5	8912.4	8747.3	5634.3
45°	8155.5	8205.9	8176.5	8004.4	7748.4	7719.0	7636.4	8988.0	10188.4	9980.0	6422.0
47.5°	9070.5	9104.1	9031.4	8828.5	8568.2	8614.4	8565.5	9960.4	11489.6	11310.5	7237.7
50°	9705.7	9761.7	9865.2	9946.4	9757.5	9586.8	9441.3	10868.4	12725.1	12564.2	8071.6
52.5°	9698.7	9791.1	10118.5	10527.0	10939.8	10888.0	10469.7	11871.6	13904.5	13705.8	8855.1
55°	9045.4	9224.4	9705.7	10430.5	11573.6	12143.0	11952.7	13032.9	14923.1	14788.8	9763.1
57.5°	7696.6	7805.7	8474.5	9487.5	11219.6	12733.4	13670.9	14606.9	16144.5	16081.6	11173.4
60°	5176.8	5225.7	6086.2	7338.4	9551.8	12144.4	14930.1	16511.1	17648.6	17617.8	12820.2
62.5°	2966.1	2987.1	3611.1	4667.5	6797.0	10292.0	15036.4	18860.2	19452.1	19468.8	14725.8
65°	1596.4	1607.6	2111.3	2739.5	4135.8	7335.6	13521.2	20147.4	20909.9	20942.1	15906.7
66°	1378.1	1325.0	1680.4	2335.1	3290.7	5838.6	12562.8	20101.2	21189.8	21154.8	15864.7
67.5°	1047.9	1095.5	1341.8	1795.1	2438.7	4151.2	10371.7	19207.2	20977.1	20868.0	15219.7
70°	749.9	769.5	955.6	1280.2	1660.8	2277.8	6627.7	15952.8	19065.9	18919.0	13259.5
72.5°	484.1	505.1	677.2	926.2	1200.5	1243.8	3710.5	11526.0	14699.2	14678.2	9985.6
75°	345.6	365.2	447.7	663.2	902.4	769.5	1786.7	7767.9	9344.8	9281.8	6177.1
77.5°	250.4	260.2	299.4	433.7	645.0	551.3	828.3	4148.4	4652.1	4871.8	2729.7
80°	144.1	152.5	208.5	264.4	436.5	376.4	396.0	1665.0	1716.7	1634.2	853.5
82.5°	71.4	81.1	124.5	180.5	272.8	253.2	181.9	500.9	528.9	514.9	215.5
85°	16.8	21.0	70.0	118.9	132.9	113.3	88.1	146.9	181.9	177.7	82.5
87.5°	1.4	2.8	25.2	21.0	22.4	37.8	30.8	37.8	58.8	54.6	29.4
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°	2069.3	2069.3	2069.3	2069.3	2069.3	2069.3	2069.3	2069.3	2069.3	2069.3	2069.3
2.5°	2087.5	2060.9	1984.0	1908.4	1845.4	1779.7	1719.5	1684.5	1670.6	1655.2	1662.2
5°	2116.9	2052.5	1897.2	1762.9	1631.4	1519.5	1429.9	1372.5	1344.6	1340.4	1333.4
7.5°	2156.1	2045.5	1804.9	1595.0	1422.9	1298.4	1196.3	1113.7	1088.5	1066.1	1047.9
10°	2203.6	2032.9	1690.1	1418.7	1235.4	1078.7	944.4	846.5	796.1	782.1	791.9
12.5°	2254.0	2009.1	1569.8	1256.4	1045.1	845.1	720.6	671.6	657.6	652.0	653.4
15°	2304.4	1979.8	1443.9	1099.7	832.5	674.4	617.0	604.4	598.8	596.0	593.2
17.5°	2350.5	1932.2	1302.6	947.2	674.4	576.4	555.5	544.3	533.1	528.9	521.9
20°	2405.1	1877.6	1175.3	776.5	570.8	521.9	496.7	475.7	458.9	447.7	446.3
22.5°	2456.9	1807.7	1042.3	643.6	520.5	468.7	428.1	405.7	386.2	372.2	376.4
25°	2484.8	1722.3	923.4	561.0	474.3	415.5	370.8	342.8	321.8	314.8	313.4
27.5°	2484.8	1617.4	807.3	513.5	432.3	368.0	321.8	295.2	281.2	271.4	272.8
30°	2465.3	1501.3	699.6	477.1	396.0	326.0	282.6	258.8	247.6	240.6	239.3
32.5°	2449.9	1390.7	607.2	442.1	358.2	289.6	251.8	233.7	222.5	215.5	215.5
35°	2473.7	1295.6	535.9	407.1	323.2	261.6	228.1	211.3	200.1	194.5	193.1
37.5°	2536.6	1208.8	481.3	369.4	291.0	237.9	211.3	191.7	180.5	173.5	170.7
40°	2691.9	1159.9	440.7	334.4	260.2	218.3	191.7	173.5	159.5	152.5	151.1
42.5°	2941.0	1161.3	401.5	302.2	236.5	201.5	174.9	153.9	138.5	131.5	130.1
45°	3315.9	1214.4	370.8	271.4	215.5	183.3	156.7	134.3	120.3	113.3	113.3
47.5°	3765.0	1318.0	344.2	244.8	195.9	166.5	138.5	116.1	102.1	96.5	96.5
50°	4251.9	1452.3	317.6	216.9	179.1	148.3	118.9	100.7	89.5	85.3	85.3
52.5°	4748.6	1614.6	291.0	194.5	160.9	128.7	102.1	89.5	79.8	77.0	75.6
55°	5400.6	1821.7	263.0	170.7	141.3	110.5	90.9	78.4	67.2	63.0	61.6
57.5°	6403.8	2133.7	232.3	149.7	116.1	92.3	78.4	65.8	53.2	46.2	44.8
60°	7614.0	2514.2	200.1	131.5	93.7	75.6	63.0	50.4	39.2	30.8	29.4
62.5°	8747.3	2756.3	169.3	110.5	74.2	57.4	44.8	37.8	28.0	19.6	18.2
65°	9248.2	2675.1	139.9	89.5	58.8	40.6	29.4	26.6	16.8	8.4	7.0
66°	9081.7	2554.8	128.7	81.1	53.2	35.0	25.2	22.4	12.6	4.2	4.2
67.5°	8590.6	2270.8	111.9	70.0	46.2	28.0	19.6	16.8	7.0	1.4	0.0
70°	7360.8	1837.1	88.1	51.8	33.6	19.6	11.2	8.4	4.2	0.0	0.0
72.5°	5653.9	1368.3	70.0	39.2	23.8	11.2	5.6	2.8	4.2	0.0	0.0
75°	3464.2	782.1	54.6	29.4	15.4	7.0	4.2	0.0	4.2	1.4	0.0
77.5°	1537.6	351.2	36.4	19.6	11.2	5.6	2.8	0.0	2.8	1.4	0.0
80°	389.0	114.7	21.0	14.0	8.4	4.2	1.4	0.0	2.8	2.8	1.4
82.5°	106.3	42.0	15.4	11.2	7.0	4.2	1.4	0.0	2.8	2.8	2.8
85°	42.0	19.6	14.0	11.2	8.4	4.2	1.4	0.0	2.8	2.8	2.8
87.5°	19.6	14.0	14.0	12.6	9.8	4.2	1.4	0.0	2.8	1.4	2.8
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)