

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: P457113

Luminaire Tested: **GALN-SA8B-830-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26807 lumens
Efficiency: N/A
Efficacy: 82.5 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): 325
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



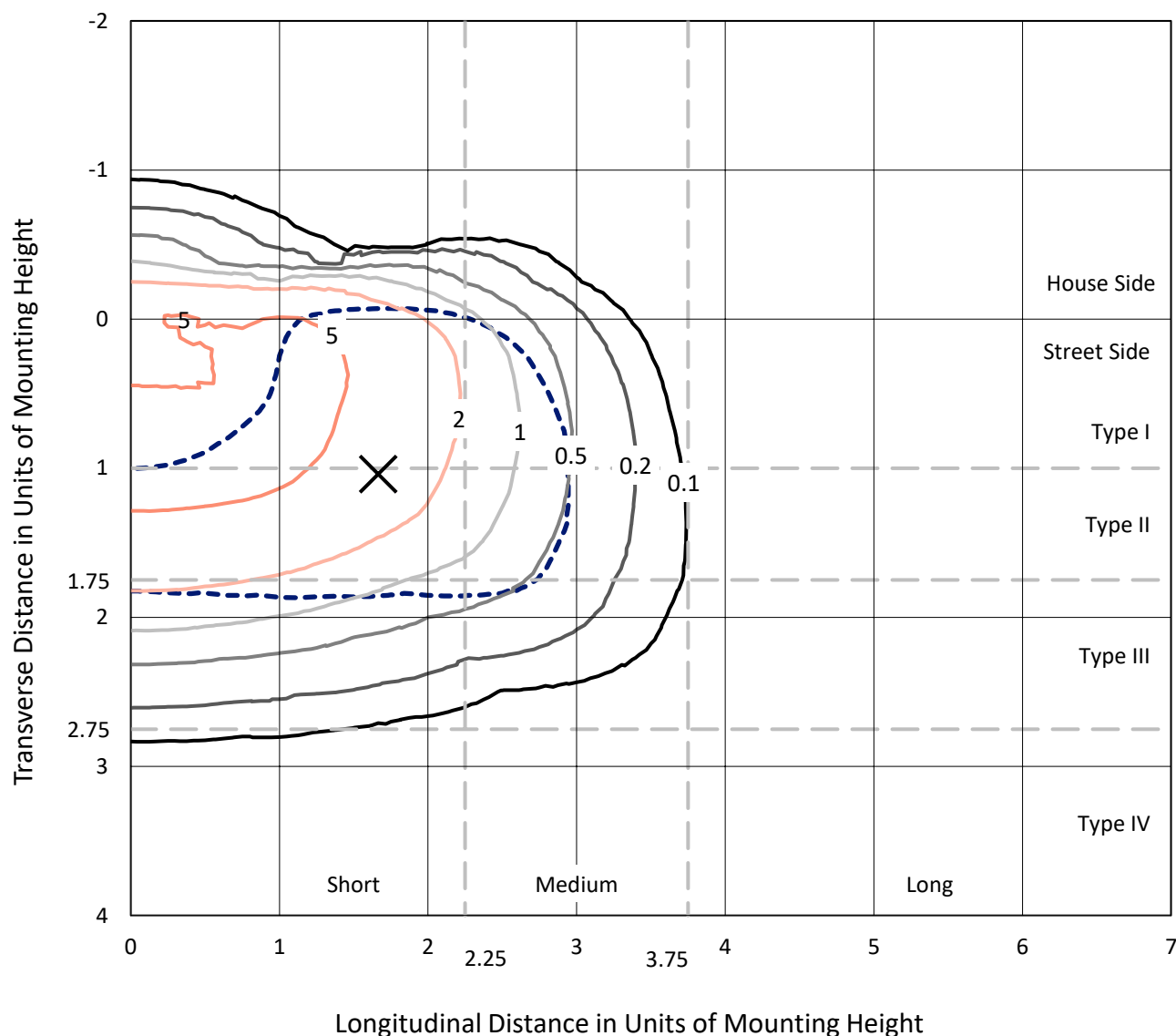
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

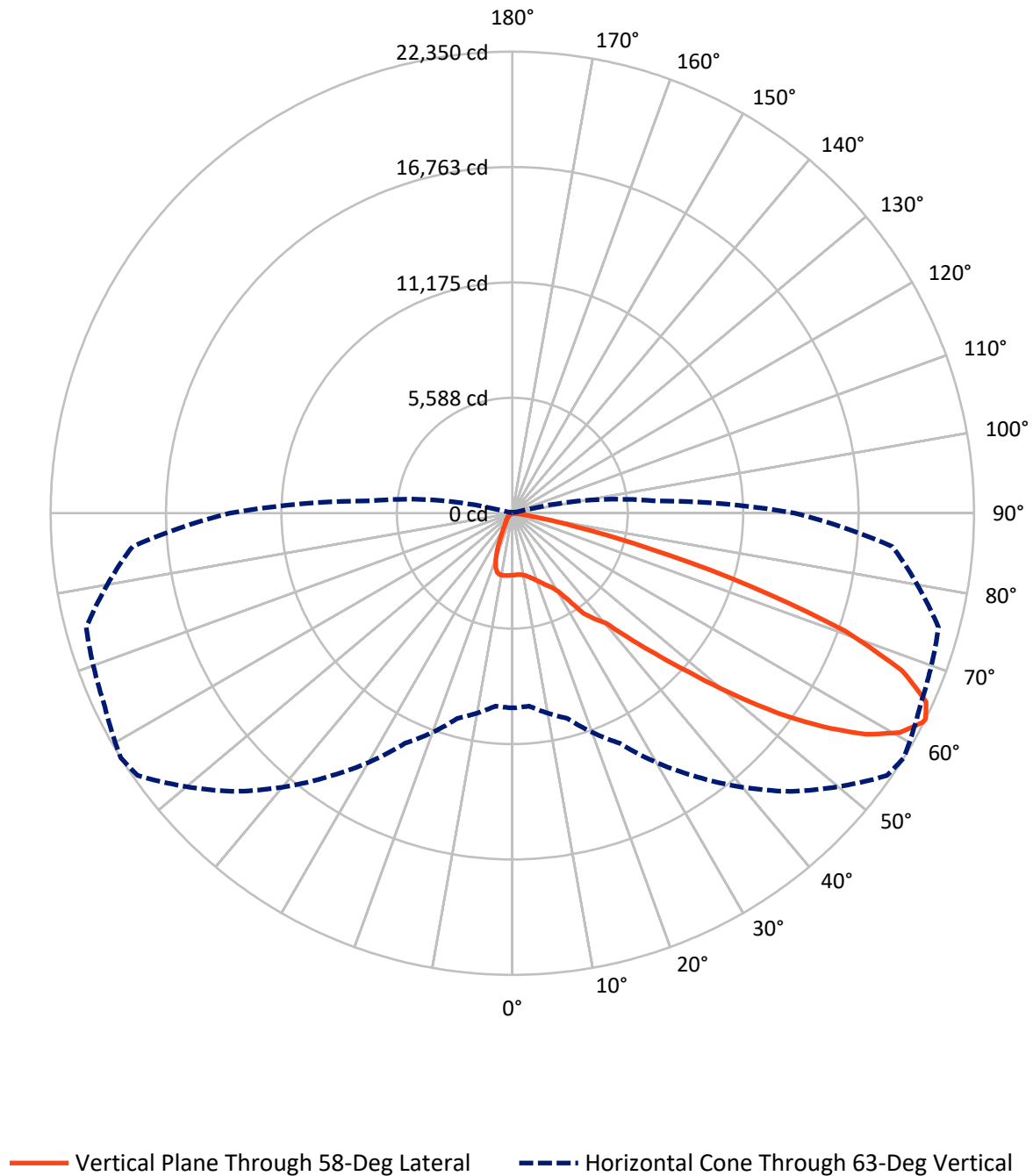


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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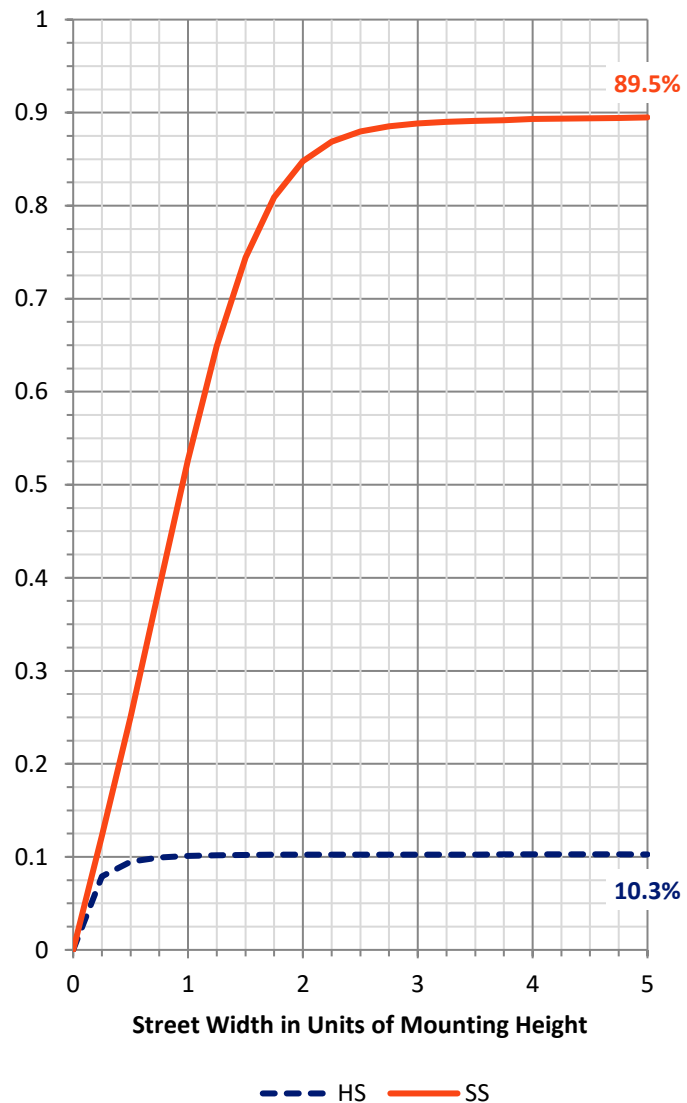
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2775.7	0.0	2775.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	24031.3	0.0	24031.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	26807.0	0.0	26807.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.9	1.0
10°-20°	765.2	2.9
20°-30°	1328.0	5.0
30°-40°	2440.4	9.1
40°-50°	4594.1	17.1
50°-60°	7857.8	29.3
60°-70°	7523.8	28.1
70°-80°	1918.6	7.2
80°-90°	98.1	0.4
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°	26807.0	100.0
0°-180°	26807.0	100.0

Coefficient of Utilization



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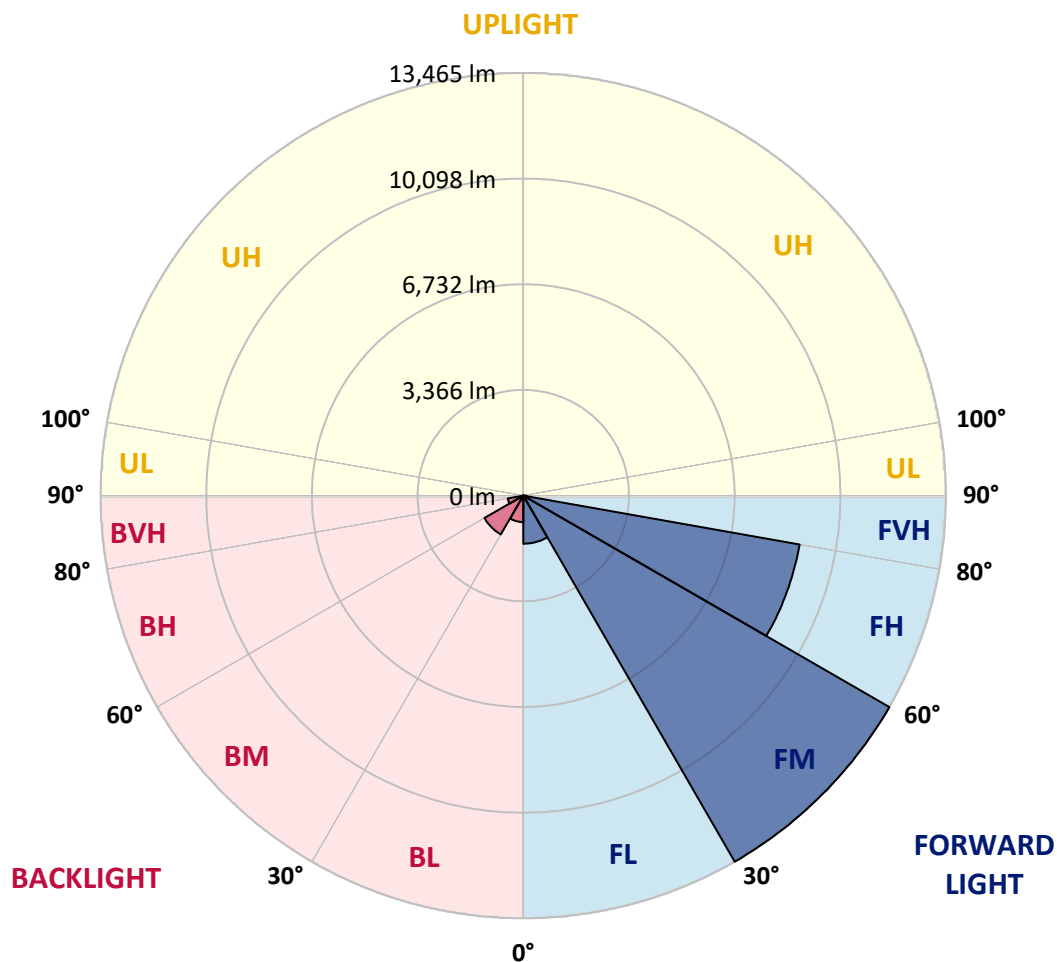
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1532.4	5.7			
FM	(30°-60°)	13464.6	50.2			
FH	(60°-80°)	8940.0	33.3			G4/12000
FVH	(80°-90°)	94.3	0.4			G1/100
BL	(0°-30°)	841.8	3.1	B2/1000		
BM	(30°-60°)	1427.7	5.3	B2/2500		
BH	(60°-80°)	502.5	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.8	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3001.1	3001.1	3001.1	3001.1	3001.1	3001.1	3001.1	3001.1	3001.1	3001.1	3001.1
2.5°	2926.5	2936.6	2946.7	2950.7	2964.8	2978.9	2989.0	2987.0	3003.2	3011.2	3011.2
5°	2809.4	2809.4	2835.7	2859.9	2900.2	2940.6	2978.9	2987.0	3017.3	3045.5	3055.6
7.5°	2710.5	2716.6	2736.8	2781.2	2835.7	2906.3	2983.0	3001.1	3053.6	3116.2	3142.4
10°	2664.1	2668.1	2694.4	2740.8	2809.4	2906.3	3013.3	3047.6	3128.3	3227.2	3263.5
12.5°	2654.0	2660.1	2686.3	2738.8	2817.5	2934.5	3079.9	3116.2	3233.2	3360.4	3414.9
15°	2672.2	2676.2	2702.4	2759.0	2845.7	2985.0	3168.7	3219.1	3358.4	3505.7	3576.4
17.5°	2736.8	2732.7	2750.9	2797.3	2894.2	3047.6	3275.6	3336.2	3499.7	3701.5	3747.9
20°	3011.2	2985.0	2968.9	2928.5	2966.8	3136.4	3404.8	3493.6	3695.4	3901.3	3933.6
22.5°	3602.6	3544.1	3429.0	3271.6	3150.5	3257.5	3560.2	3663.1	3923.5	4125.3	4125.3
25°	4355.4	4280.7	4165.7	3822.6	3525.9	3457.3	3735.8	3865.0	4171.7	4375.6	4309.0
27.5°	5297.9	5239.4	5015.4	4615.8	4161.6	3806.4	3939.6	4058.7	4391.7	4638.0	4498.7
30°	6064.9	6036.6	5852.9	5495.7	4995.2	4476.5	4319.1	4397.8	4684.4	4968.9	4825.7
32.5°	6712.7	6712.7	6525.0	6192.0	5723.8	5263.6	4962.9	5019.4	5293.9	5622.9	5356.5
35°	7425.2	7400.9	7249.6	6932.7	6408.0	6002.3	5879.2	5955.9	6204.1	6448.3	5792.4
37.5°	8173.9	8165.9	8008.4	7701.7	7273.8	6763.2	6474.6	6494.7	6621.9	6771.3	6303.0
40°	8987.3	8999.4	8793.5	8603.8	8200.2	7677.4	7124.4	6997.3	7116.4	7538.2	7245.5
42.5°	9948.0	9919.7	9830.9	9572.6	9247.7	8934.8	8270.8	8224.4	8329.3	8781.4	8464.6
45°	11064.1	11104.4	10951.1	10807.8	10589.8	10329.4	9774.4	9693.7	9808.7	10511.1	10061.0
47.5°	12182.2	12143.8	12242.7	12216.5	12333.6	12139.8	11649.4	11483.9	11760.4	12426.4	11764.4
50°	13033.9	13076.3	13282.1	13582.9	14085.4	14194.4	13724.1	13667.6	13790.7	14218.6	13288.2
52.5°	13586.9	13728.2	14051.1	14824.1	15730.3	16434.7	16077.4	16047.2	15996.7	16111.7	14745.4
55°	13948.2	14091.5	14513.3	15651.6	17211.7	18356.0	18374.2	18245.0	17912.0	17829.3	16107.7
57.5°	13726.2	13754.4	14355.9	15877.6	18033.1	19726.4	20319.8	20190.6	19575.1	19262.2	17310.6
60°	12337.6	12396.1	13233.7	15021.9	17675.9	20174.5	21609.5	21550.9	20876.8	20523.6	18247.1
62.5°	9877.3	10046.9	10908.7	12902.7	16014.9	19419.7	22132.2	22297.7	21773.0	21286.6	18541.7
63°	9425.3	9370.8	10281.0	12285.1	15574.9	19046.3	22140.3	22350.2	21813.3	21359.2	18461.0
65°	6977.1	7140.6	7731.9	9687.6	12961.2	17308.6	21641.8	22013.1	21664.0	21038.3	17566.9
67.5°	3917.4	3909.4	4563.3	6339.3	9072.1	13576.8	19569.0	20354.1	20281.5	18878.8	14561.7
70°	1917.3	1947.6	2216.0	3285.7	5261.6	9366.7	16261.1	17108.8	17135.0	14828.1	10069.1
72.5°	867.9	882.0	1073.7	1600.5	2704.5	4987.1	11205.4	12014.7	11865.3	9449.5	5560.3
75°	458.1	488.4	591.3	805.3	1303.8	2056.6	6095.1	6878.2	6565.4	4317.1	2046.5
77.5°	339.1	349.2	401.6	512.6	698.3	801.2	2629.8	3128.3	2930.5	1562.1	678.1
80°	248.2	256.3	298.7	363.3	440.0	407.7	991.0	1136.3	1019.2	530.8	207.9
82.5°	151.4	153.4	218.0	270.4	276.5	228.1	327.0	351.2	367.3	298.7	113.0
85°	54.5	68.6	147.3	195.8	163.5	115.0	137.2	151.4	165.5	189.7	66.6
87.5°	6.1	8.1	70.6	94.9	46.4	42.4	50.5	56.5	60.5	70.6	32.3
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°	3001.1	3001.1	3001.1	3001.1	3001.1	3001.1	3001.1	3001.1	3001.1	3001.1	3001.1
2.5°	3019.3	3027.4	3021.3	3011.2	3009.2	3003.2	2991.1	2991.1	2991.1	2995.1	2991.1
5°	3063.7	3069.8	3055.6	3035.5	3013.3	2985.0	2954.7	2936.6	2934.5	2930.5	2920.4
7.5°	3148.5	3156.6	3124.3	3075.8	3015.3	2946.7	2882.1	2821.5	2793.3	2771.1	2771.1
10°	3271.6	3279.7	3215.1	3128.3	3007.2	2867.9	2714.6	2575.3	2466.3	2415.9	2403.7
12.5°	3418.9	3423.0	3316.0	3164.6	2964.8	2696.4	2369.4	2064.7	1852.8	1755.9	1745.8
15°	3580.4	3552.1	3410.9	3178.8	2843.7	2343.2	1778.1	1404.7	1184.7	1120.1	1144.4
17.5°	3743.9	3691.4	3483.5	3156.6	2571.3	1778.1	1194.8	958.7	890.1	871.9	871.9
20°	3897.3	3824.6	3536.0	3059.7	2099.0	1225.1	886.0	829.5	817.4	805.3	807.3
22.5°	4050.6	3939.6	3582.4	2843.7	1564.1	875.9	793.2	775.0	758.9	742.7	740.7
25°	4200.0	4046.6	3600.6	2444.1	1065.6	752.8	724.6	700.3	668.0	649.9	645.8
27.5°	4355.4	4175.8	3588.5	1939.5	777.0	674.1	645.8	611.5	573.2	540.9	540.9
30°	4654.1	4422.0	3546.1	1394.6	653.9	593.4	557.0	502.5	460.2	427.9	425.9
32.5°	5061.8	4742.9	3400.8	980.9	581.3	522.7	468.2	407.7	363.3	339.1	339.1
35°	5425.1	5065.8	3128.3	722.5	522.7	454.1	387.5	329.0	294.7	278.5	272.5
37.5°	5978.1	5538.1	2752.9	587.3	466.2	393.6	324.9	270.4	242.2	230.1	230.1
40°	6807.6	6115.3	2292.7	514.7	411.7	335.0	270.4	228.1	205.9	191.7	191.7
42.5°	7836.9	6821.7	1826.5	462.2	361.3	288.6	226.0	193.8	173.6	163.5	161.5
45°	9132.6	7566.4	1406.7	413.7	320.9	246.2	191.7	163.5	143.3	137.2	139.3
47.5°	10484.8	8222.4	1089.9	371.4	278.5	207.9	163.5	141.3	127.2	119.1	119.1
50°	11639.3	8674.5	827.5	322.9	246.2	175.6	143.3	127.2	115.0	111.0	109.0
52.5°	12604.0	8805.7	633.7	280.5	216.0	151.4	127.2	115.0	104.9	98.9	98.9
55°	13425.4	8690.6	496.5	236.1	181.6	131.2	113.0	102.9	90.8	84.8	82.7
57.5°	13905.8	8321.3	379.4	195.8	147.3	109.0	98.9	86.8	72.7	62.6	62.6
60°	14148.0	7784.4	290.6	161.5	113.0	86.8	80.7	64.6	50.5	42.4	40.4
62.5°	13857.3	7072.0	220.0	127.2	84.8	64.6	54.5	46.4	32.3	24.2	24.2
63°	13677.7	6866.1	211.9	121.1	78.7	60.5	50.5	42.4	28.3	22.2	20.2
65°	12468.8	5968.0	173.6	96.9	62.6	42.4	34.3	30.3	20.2	10.1	8.1
67.5°	9901.6	4565.3	137.2	72.7	44.4	30.3	20.2	18.2	6.1	0.0	0.0
70°	6694.6	2948.7	107.0	52.5	30.3	18.2	10.1	8.1	2.0	0.0	0.0
72.5°	3491.6	1511.7	82.7	38.3	18.2	12.1	6.1	2.0	0.0	0.0	0.0
75°	1235.2	514.7	60.5	24.2	12.1	6.1	2.0	0.0	0.0	0.0	0.0
77.5°	373.4	191.7	38.3	18.2	8.1	4.0	0.0	0.0	0.0	0.0	0.0
80°	131.2	70.6	22.2	12.1	6.1	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	64.6	34.3	14.1	10.1	6.1	2.0	0.0	0.0	0.0	0.0	0.0
85°	36.3	22.2	12.1	10.1	6.1	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.2	16.1	12.1	10.1	8.1	4.0	2.0	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)