

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: P453622

Luminaire Tested: **GALN-SA4C-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453622
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-SA4C-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 18179 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 213
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

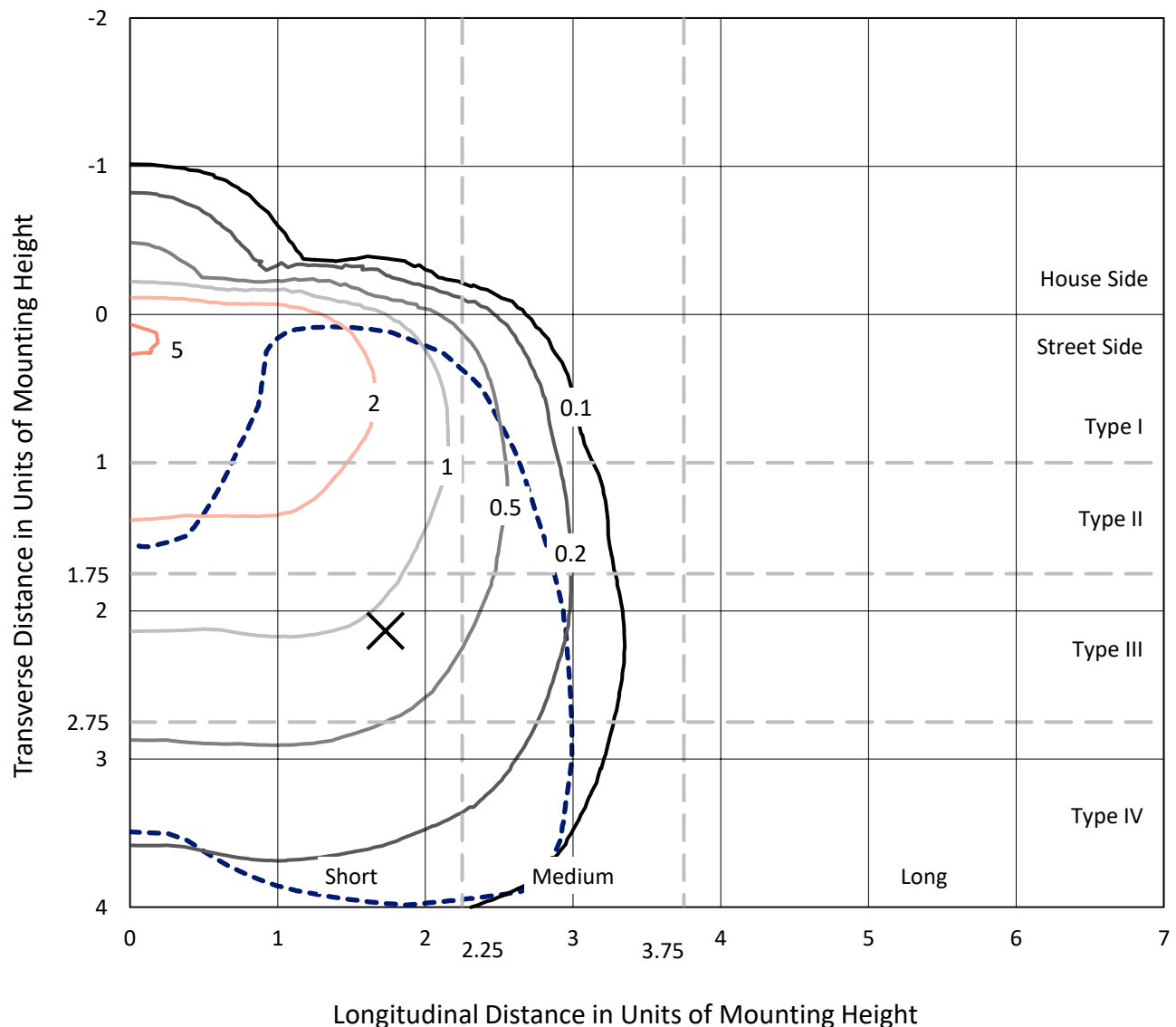


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Iso-Footcandle Lines of Horizontal Illumination

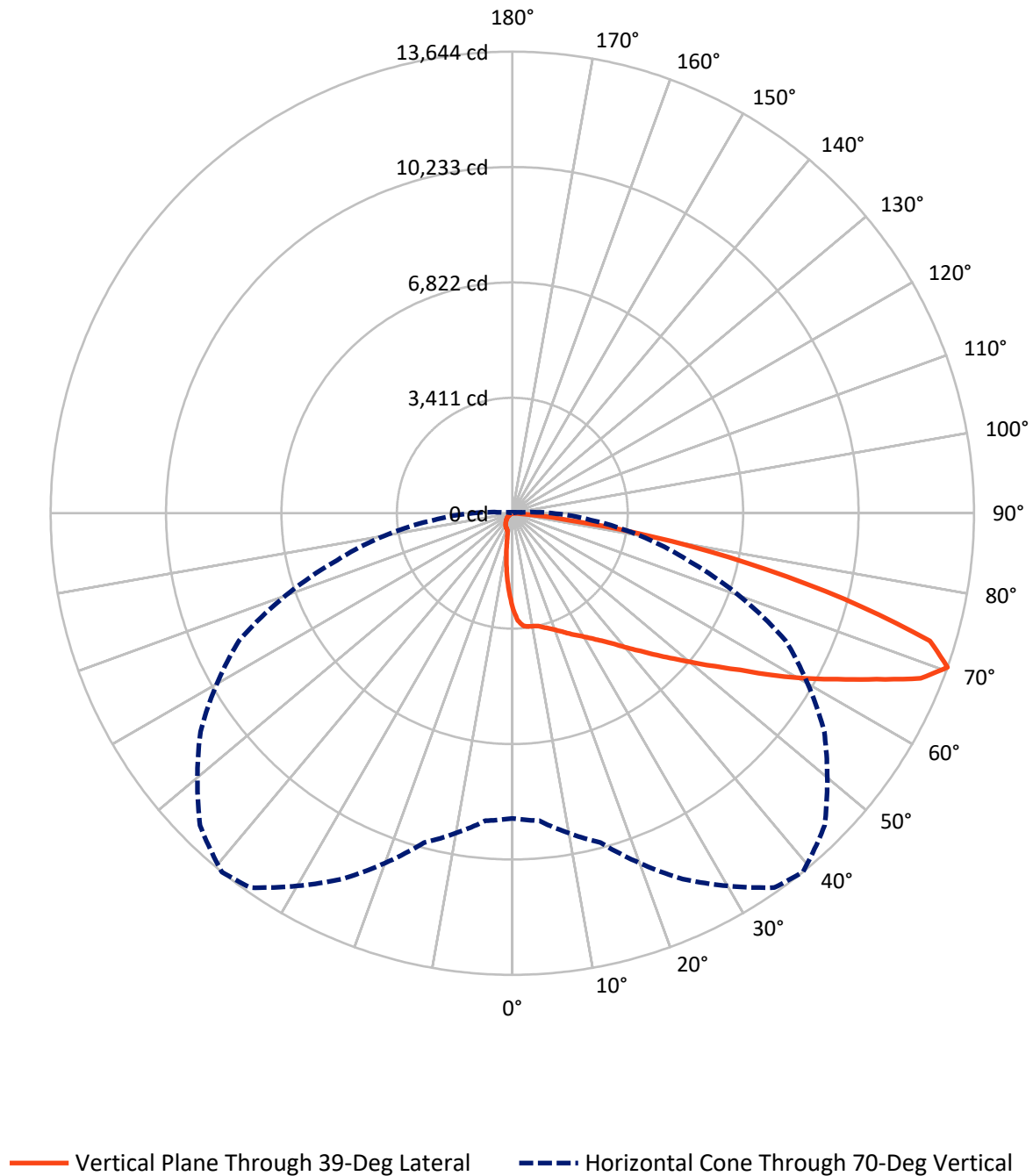
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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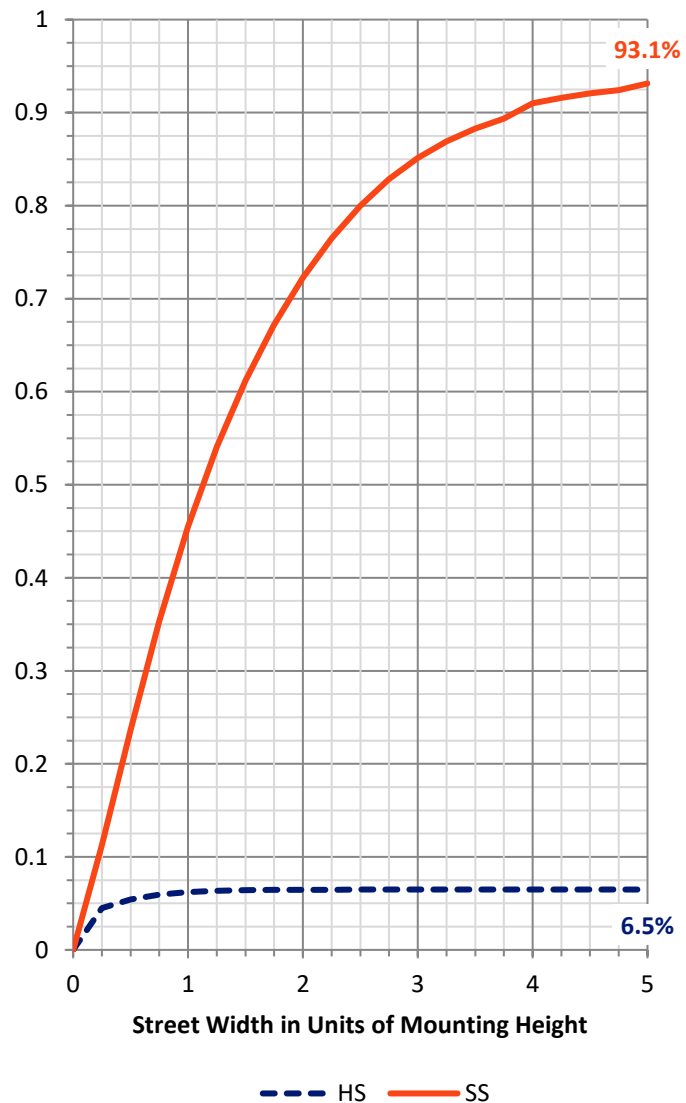
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1185.4	0.0	1185.4
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	16993.7	0.0	16993.7
	% Fixture	93.5	0.0	93.5
Total	Lumens	18179.0	0.0	18179.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.9	1.3
10°-20°	628.7	3.5
20°-30°	1053.3	5.8
30°-40°	1633.5	9.0
40°-50°	2588.6	14.2
50°-60°	3794.6	20.9
60°-70°	4863.7	26.8
70°-80°	3056.2	16.8
80°-90°	318.4	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°	18179.0	100.0
0°-180°	18179.0	100.0

Coefficient of Utilization



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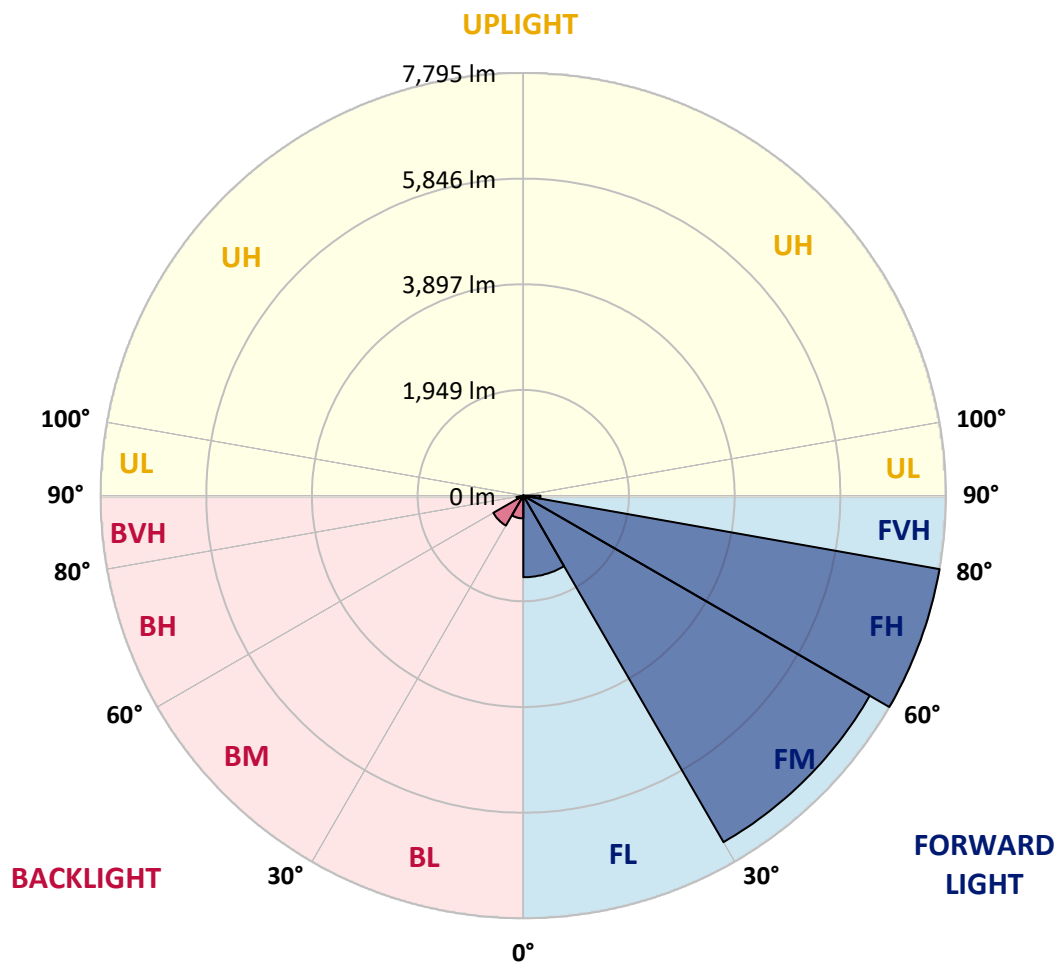
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1504.2	8.3			
FM	(30°-60°)	7378.8	40.6			
FH	(60°-80°)	7794.6	42.9			G4/12000
FVH	(80°-90°)	316.0	1.7			G3/500
BL	(0°-30°)	419.7	2.3	B1/500		
BM	(30°-60°)	637.9	3.5	B1/1000		
BH	(60°-80°)	125.4	0.7	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: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2836.5	2836.5	2836.5	2836.5	2836.5	2836.5	2836.5	2836.5	2836.5	2836.5	2836.5
2.5°	3277.5	3266.5	3251.9	3234.8	3185.9	3177.4	3148.1	3085.8	3011.2	2950.2	2865.9
5°	3432.7	3438.8	3427.8	3397.3	3361.8	3341.1	3304.4	3207.9	3111.4	2988.0	2850.0
7.5°	3468.1	3480.3	3466.9	3437.6	3403.4	3381.4	3352.1	3269.0	3156.6	3016.1	2826.8
10°	3464.4	3479.1	3470.6	3443.7	3415.6	3394.8	3363.1	3297.1	3206.7	3058.9	2834.1
12.5°	3458.3	3477.9	3476.7	3463.2	3440.0	3424.1	3404.6	3346.0	3261.7	3121.2	2874.4
15°	3441.2	3465.7	3487.7	3498.7	3499.9	3499.9	3475.4	3413.1	3332.5	3203.0	2926.9
17.5°	3448.6	3476.7	3531.6	3563.4	3585.4	3582.9	3557.3	3490.1	3400.9	3287.3	2981.9
20°	3493.8	3531.6	3608.6	3672.1	3694.1	3686.8	3652.6	3574.4	3473.0	3359.4	3035.7
22.5°	3604.9	3639.1	3735.6	3810.2	3826.0	3806.5	3757.6	3651.4	3559.7	3437.6	3100.4
25°	3771.1	3811.4	3900.6	3956.8	3956.8	3945.8	3877.3	3752.7	3657.5	3546.3	3184.7
27.5°	3972.6	4006.8	4094.8	4144.9	4115.6	4083.8	4015.4	3865.1	3773.5	3683.1	3286.1
30°	4176.6	4198.6	4291.5	4313.5	4282.9	4242.6	4169.3	4019.1	3938.4	3868.8	3432.7
32.5°	4369.7	4417.3	4494.3	4489.4	4447.8	4428.3	4361.1	4201.1	4155.9	4148.5	3637.9
35°	4562.7	4599.3	4667.7	4684.8	4648.2	4644.5	4595.6	4477.2	4478.4	4526.0	3958.0
37.5°	4728.8	4761.8	4842.4	4880.3	4887.6	4905.9	4886.4	4808.2	4919.4	5050.1	4381.9
40°	4868.1	4914.5	5017.1	5083.1	5158.8	5226.0	5229.7	5246.8	5470.3	5695.1	4935.3
42.5°	4976.8	5041.5	5190.6	5312.7	5486.2	5571.7	5640.1	5734.2	6110.4	6446.4	5587.6
45°	5118.5	5193.0	5378.7	5570.5	5841.7	5982.2	6077.4	6329.1	6862.9	7321.0	6257.0
47.5°	5353.0	5392.1	5581.5	5861.2	6217.9	6418.3	6604.0	6985.1	7670.4	8080.9	6814.1
50°	5654.8	5680.4	5823.4	6211.8	6673.6	6937.4	7275.8	7724.2	8508.4	8711.2	7129.2
52.5°	5988.3	5996.8	6104.3	6597.8	7184.2	7516.5	7895.2	8448.6	9191.3	9160.8	7338.1
55°	6375.5	6363.3	6454.9	7016.9	7788.9	8168.8	8609.8	9190.1	9783.8	9479.6	7457.8
57.5°	6819.0	6786.0	6875.1	7572.7	8563.4	9017.8	9466.2	9830.2	10243.1	9747.1	7515.3
60°	7283.2	7217.2	7323.5	8196.9	9475.9	9907.1	10279.7	10377.5	10726.8	9959.7	7416.3
62.5°	7653.3	7654.5	7852.4	8861.5	10414.1	10791.6	10989.5	11077.4	11143.4	9913.3	6895.9
65°	8231.1	8250.7	8567.1	9783.8	11500.1	11827.5	11963.1	11677.2	11161.7	9336.7	6114.1
67.5°	8827.3	8889.6	9468.6	11054.2	12754.7	13018.6	12843.9	11793.3	10663.3	8021.0	4636.0
70°	9021.5	9124.1	10078.2	11928.9	13507.2	13644.0	13052.8	11252.1	8914.0	5362.8	2333.2
72.5°	8266.5	8432.7	9727.6	11610.1	13027.1	12908.6	11678.5	9436.8	5667.0	2036.4	712.2
75°	5829.5	5902.8	8084.5	9631.1	10477.6	10141.7	8883.5	6083.6	2330.8	571.7	244.3
77.5°	3010.0	2974.6	4808.2	6390.2	7472.5	7124.4	5817.2	3149.3	883.2	238.2	151.5
80°	1556.3	1582.0	2080.4	3348.4	4561.4	4197.4	3101.6	1459.8	470.3	131.9	116.1
82.5°	872.2	818.5	1195.9	1462.3	2132.9	1672.4	1189.8	1033.5	205.2	79.4	109.9
85°	158.8	166.1	656.0	790.4	740.3	470.3	383.6	690.2	59.9	44.0	77.0
87.5°	2.4	2.4	127.0	227.2	144.1	66.0	120.9	98.9	12.2	17.1	13.4
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°	2836.5	2836.5	2836.5	2836.5	2836.5	2836.5	2836.5	2836.5	2836.5	2836.5	2836.5
2.5°	2823.1	2776.7	2690.0	2604.4	2495.7	2406.5	2346.7	2284.4	2220.9	2225.7	2240.4
5°	2774.2	2693.6	2522.6	2341.8	2168.3	2012.0	1858.0	1720.0	1663.8	1612.5	1615.0
7.5°	2725.4	2611.8	2361.3	2077.9	1815.3	1549.0	1356.0	1197.2	1112.9	1049.4	1031.0
10°	2703.4	2553.1	2213.5	1823.8	1451.3	1160.5	912.5	783.0	682.9	651.1	659.7
12.5°	2713.2	2523.8	2080.4	1594.2	1150.7	808.7	635.2	569.3	547.3	543.6	541.2
15°	2731.5	2503.1	1949.7	1340.1	845.3	601.0	533.8	521.6	519.2	516.7	518.0
17.5°	2755.9	2484.7	1810.4	1101.9	648.7	525.3	505.7	499.6	498.4	498.4	498.4
20°	2780.4	2464.0	1655.3	889.3	541.2	496.0	483.8	480.1	478.9	478.9	477.6
22.5°	2808.5	2445.6	1497.7	698.8	498.4	475.2	464.2	461.8	460.5	459.3	459.3
25°	2848.8	2422.4	1330.3	571.7	471.5	455.7	444.7	442.2	441.0	436.1	437.3
27.5°	2902.5	2405.3	1158.1	493.5	447.1	431.2	423.9	420.2	417.8	414.1	415.3
30°	2975.8	2390.7	974.8	450.8	419.0	405.6	398.2	395.8	393.4	389.7	389.7
32.5°	3102.9	2396.8	781.8	416.6	393.4	377.5	370.1	367.7	365.3	361.6	361.6
35°	3293.4	2432.2	625.5	387.2	362.8	346.9	339.6	339.6	335.9	331.1	329.8
37.5°	3604.9	2522.6	502.1	359.1	333.5	318.8	310.3	307.8	304.2	296.8	295.6
40°	3972.6	2663.1	422.7	331.1	306.6	292.0	284.6	277.3	267.5	260.2	259.0
42.5°	4434.4	2807.2	366.5	303.0	281.0	267.5	259.0	246.8	232.1	222.3	221.1
45°	4915.7	2939.2	328.6	277.3	256.5	245.5	235.8	216.2	197.9	185.7	184.5
47.5°	5274.9	2963.6	298.1	252.9	235.8	224.8	211.3	186.9	162.5	151.5	147.8
50°	5444.7	2845.1	266.3	228.4	215.0	202.8	185.7	157.6	130.7	117.3	114.8
52.5°	5504.5	2639.9	240.7	206.4	194.2	179.6	158.8	127.0	102.6	89.2	88.0
55°	5480.1	2380.9	217.4	185.7	169.8	152.7	131.9	101.4	75.7	64.7	62.3
57.5°	5351.8	2051.1	194.2	164.9	145.4	128.3	105.1	75.7	51.3	41.5	40.3
60°	5006.1	1601.5	171.0	141.7	123.4	105.1	83.1	53.8	31.8	23.2	23.2
62.5°	4422.2	1188.6	149.0	118.5	103.8	84.3	58.6	34.2	17.1	12.2	11.0
65°	3695.3	877.1	124.6	100.2	86.7	66.0	41.5	20.8	8.6	3.7	2.4
67.5°	2578.8	541.2	103.8	81.8	70.9	47.6	25.7	8.6	3.7	0.0	0.0
70°	1171.5	257.8	79.4	62.3	53.8	34.2	13.4	4.9	2.4	0.0	0.0
72.5°	364.0	135.6	56.2	45.2	36.6	22.0	7.3	3.7	2.4	0.0	0.0
75°	168.6	86.7	35.4	24.4	20.8	11.0	4.9	2.4	1.2	0.0	0.0
77.5°	125.8	67.2	20.8	13.4	11.0	7.3	3.7	2.4	1.2	0.0	0.0
80°	109.9	34.2	12.2	8.6	6.1	4.9	2.4	1.2	0.0	0.0	0.0
82.5°	98.9	17.1	7.3	4.9	3.7	2.4	1.2	1.2	0.0	0.0	0.0
85°	53.8	9.8	4.9	3.7	2.4	1.2	1.2	0.0	0.0	0.0	0.0
87.5°	9.8	4.9	3.7	2.4	2.4	1.2	1.2	1.2	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)