

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: P453390

Luminaire Tested: **GALN-SA4B-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453390
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-SA4B-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA 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: 14714 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 164
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

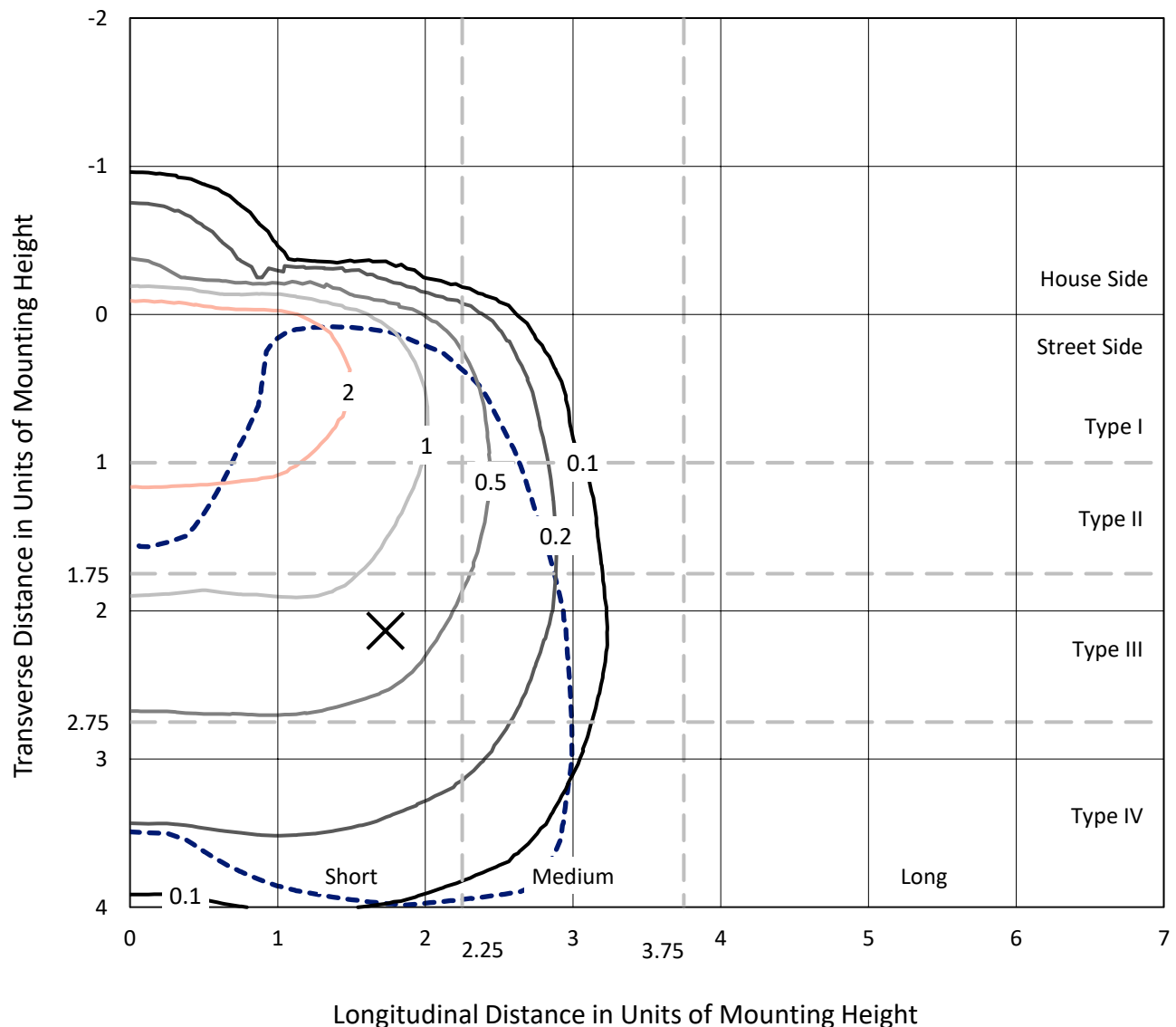


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Iso-Footcandle Lines of Horizontal Illumination

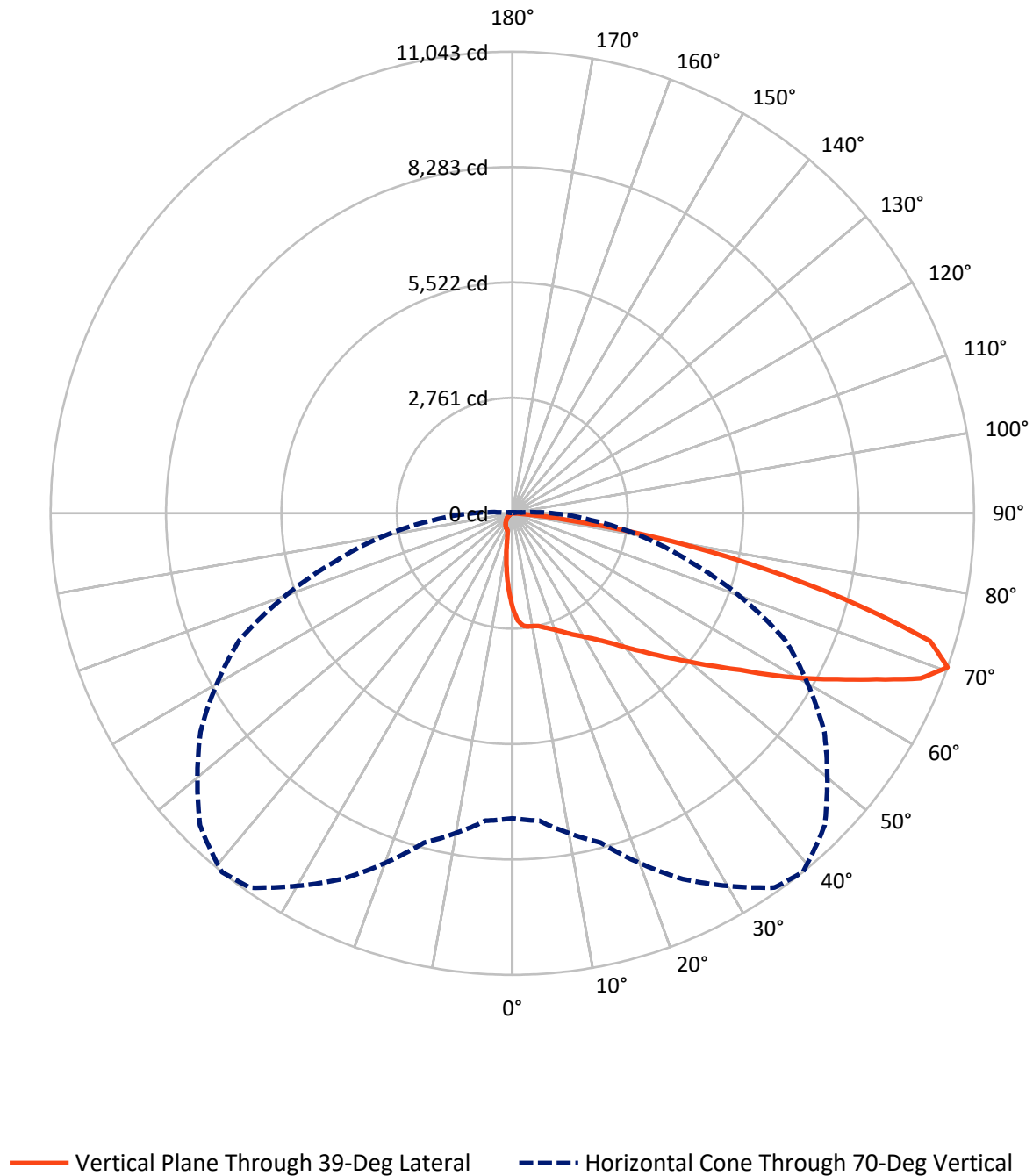
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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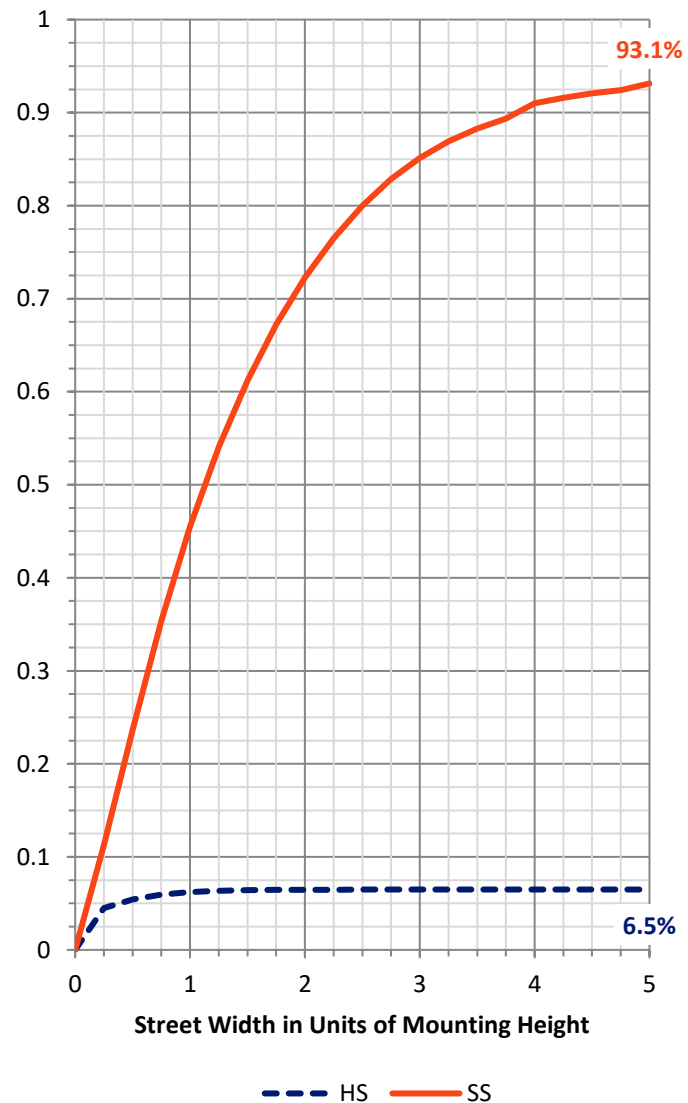
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	959.4	0.0	959.4
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	13754.6	0.0	13754.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	14714.0	0.0	14714.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.8	1.3
10°-20°	508.9	3.5
20°-30°	852.5	5.8
30°-40°	1322.2	9.0
40°-50°	2095.2	14.2
50°-60°	3071.3	20.9
60°-70°	3936.7	26.8
70°-80°	2473.7	16.8
80°-90°	257.7	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°	14714.0	100.0
0°-180°	14714.0	100.0

Coefficient of Utilization



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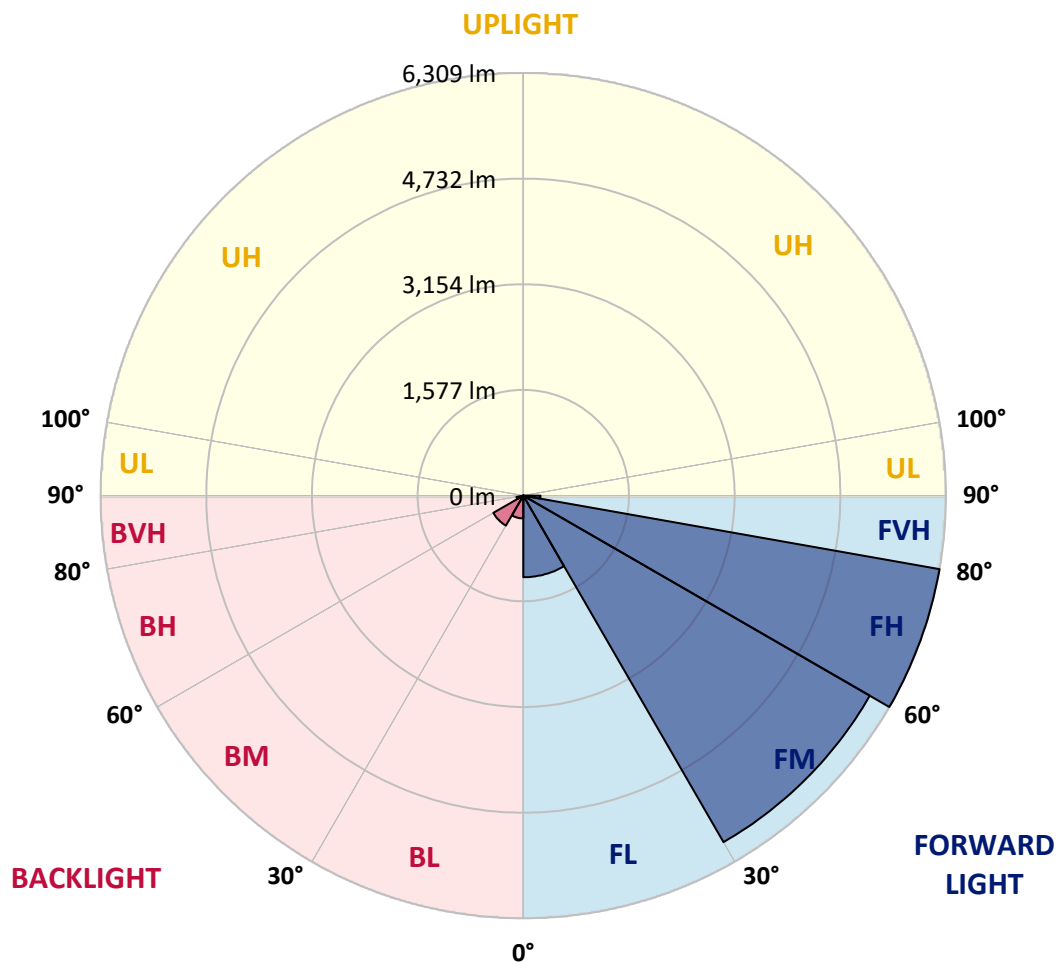
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1217.5	8.3			
FM	(30°-60°)	5972.4	40.6			
FH	(60°-80°)	6308.9	42.9			G3/7500
FVH	(80°-90°)	255.8	1.7			G3/500
BL	(0°-30°)	339.7	2.3	B1/500		
BM	(30°-60°)	516.3	3.5	B1/1000		
BH	(60°-80°)	101.5	0.7	B0/110		G0/110
BVH	(80°-90°)	1.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9
2.5°	2652.8	2643.9	2632.1	2618.2	2578.7	2571.8	2548.0	2497.6	2437.3	2387.8	2319.6
5°	2778.4	2783.3	2774.4	2749.7	2721.1	2704.2	2674.6	2596.5	2518.4	2418.5	2306.8
7.5°	2807.1	2817.0	2806.1	2782.4	2754.7	2736.9	2713.1	2645.9	2554.9	2441.2	2288.0
10°	2804.1	2816.0	2809.1	2787.3	2764.6	2747.7	2722.0	2668.6	2595.5	2475.8	2293.9
12.5°	2799.2	2815.0	2814.0	2803.1	2784.3	2771.5	2755.7	2708.2	2640.0	2526.3	2326.5
15°	2785.3	2805.1	2822.9	2831.8	2832.8	2832.8	2813.0	2762.6	2697.3	2592.5	2369.1
17.5°	2791.3	2814.0	2858.5	2884.2	2902.0	2900.0	2879.3	2824.9	2752.7	2660.7	2413.6
20°	2827.8	2858.5	2920.8	2972.2	2990.0	2984.1	2956.4	2893.1	2811.0	2719.1	2457.1
22.5°	2917.8	2945.5	3023.6	3083.9	3096.8	3081.0	3041.4	2955.4	2881.2	2782.4	2509.5
25°	3052.3	3084.9	3157.1	3202.6	3202.6	3193.7	3138.3	3037.5	2960.3	2870.4	2577.7
27.5°	3215.4	3243.1	3314.3	3354.8	3331.1	3305.4	3250.0	3128.4	3054.3	2981.1	2659.8
30°	3380.6	3398.4	3473.5	3491.3	3466.6	3433.9	3374.6	3253.0	3187.7	3131.4	2778.4
32.5°	3536.8	3575.3	3637.6	3633.7	3600.1	3584.2	3529.9	3400.3	3363.7	3357.8	2944.5
35°	3693.0	3722.7	3778.0	3791.9	3762.2	3759.2	3719.7	3623.8	3624.8	3663.3	3203.6
37.5°	3827.5	3854.2	3919.4	3950.1	3956.0	3970.8	3955.0	3891.7	3981.7	4087.5	3546.7
40°	3940.2	3977.8	4060.8	4114.2	4175.5	4229.9	4232.9	4246.7	4427.6	4609.6	3994.6
42.5°	4028.2	4080.6	4201.2	4300.1	4440.5	4509.7	4565.1	4641.2	4945.8	5217.7	4522.6
45°	4142.9	4203.2	4353.5	4508.7	4728.2	4841.9	4919.1	5122.7	5554.8	5925.6	5064.4
47.5°	4332.7	4364.4	4517.6	4744.0	5032.8	5194.9	5345.2	5653.7	6208.4	6540.6	5515.3
50°	4576.9	4597.7	4713.4	5027.8	5401.6	5615.1	5889.0	6251.9	6886.7	7050.8	5770.4
52.5°	4846.9	4853.8	4940.8	5340.3	5814.9	6083.8	6390.3	6838.2	7439.4	7414.7	5939.5
55°	5160.3	5150.4	5224.6	5679.4	6304.3	6611.8	6968.7	7438.4	7918.9	7672.7	6036.3
57.5°	5519.2	5492.5	5564.7	6129.3	6931.2	7299.0	7661.9	7956.5	8290.7	7889.3	6082.8
60°	5895.0	5841.6	5927.6	6634.5	7669.8	8018.8	8320.4	8399.5	8682.3	8061.3	6002.7
62.5°	6194.5	6195.5	6355.7	7172.4	8429.1	8734.7	8894.8	8966.0	9019.4	8023.7	5581.5
65°	6662.2	6678.1	6934.1	7918.9	9308.1	9573.1	9682.9	9451.5	9034.3	7557.1	4948.7
67.5°	7144.7	7195.2	7663.8	8947.2	10323.6	10537.2	10395.8	9545.4	8630.8	6492.2	3752.3
70°	7302.0	7385.0	8157.2	9655.2	10932.7	11043.4	10564.8	9107.4	7214.9	4340.6	1888.5
72.5°	6690.9	6825.4	7873.5	9397.1	10544.1	10448.2	9452.5	7638.1	4586.8	1648.3	576.4
75°	4718.3	4777.7	6543.6	7795.3	8480.6	8208.6	7190.2	4924.0	1886.5	462.7	197.8
77.5°	2436.3	2407.6	3891.7	5172.2	6048.2	5766.4	4708.5	2549.0	714.9	192.8	122.6
80°	1259.7	1280.4	1683.8	2710.2	3692.0	3397.4	2510.4	1181.6	380.7	106.8	93.9
82.5°	706.0	662.5	968.0	1183.5	1726.4	1353.6	963.0	836.5	166.1	64.3	89.0
85°	128.5	134.5	531.0	639.7	599.2	380.7	310.5	558.6	48.4	35.6	62.3
87.5°	2.0	2.0	102.8	183.9	116.7	53.4	97.9	80.1	9.9	13.8	10.9
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°	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9
2.5°	2285.0	2247.4	2177.2	2108.0	2020.0	1947.8	1899.4	1849.0	1797.6	1801.5	1813.4
5°	2245.5	2180.2	2041.8	1895.4	1755.0	1628.5	1503.9	1392.2	1346.7	1305.2	1307.1
7.5°	2205.9	2114.0	1911.3	1681.9	1469.3	1253.7	1097.5	969.0	900.8	849.3	834.5
10°	2188.1	2066.5	1791.6	1476.2	1174.6	939.3	738.6	633.8	552.7	527.0	533.9
12.5°	2196.0	2042.8	1683.8	1290.3	931.4	654.6	514.2	460.8	443.0	440.0	438.0
15°	2210.9	2026.0	1578.1	1084.7	684.2	486.5	432.1	422.2	420.2	418.2	419.2
17.5°	2230.6	2011.1	1465.3	891.9	525.0	425.2	409.3	404.4	403.4	403.4	403.4
20°	2250.4	1994.3	1339.8	719.8	438.0	401.4	391.5	388.6	387.6	387.6	386.6
22.5°	2273.1	1979.5	1212.2	565.6	403.4	384.6	375.7	373.7	372.8	371.8	371.8
25°	2305.8	1960.7	1076.8	462.7	381.7	368.8	359.9	357.9	356.9	353.0	354.0
27.5°	2349.3	1946.9	937.3	399.5	361.9	349.0	343.1	340.1	338.2	335.2	336.2
30°	2408.6	1935.0	789.0	364.9	339.1	328.3	322.3	320.4	318.4	315.4	315.4
32.5°	2511.4	1939.9	632.8	337.2	318.4	305.5	299.6	297.6	295.6	292.7	292.7
35°	2665.7	1968.6	506.2	313.4	293.7	280.8	274.9	274.9	271.9	268.0	267.0
37.5°	2917.8	2041.8	406.4	290.7	269.9	258.1	251.1	249.2	246.2	240.3	239.3
40°	3215.4	2155.5	342.1	268.0	248.2	236.3	230.4	224.4	216.5	210.6	209.6
42.5°	3589.2	2272.2	296.6	245.2	227.4	216.5	209.6	199.7	187.9	180.0	179.0
45°	3978.7	2378.9	266.0	224.4	207.6	198.7	190.8	175.0	160.2	150.3	149.3
47.5°	4269.4	2398.7	241.3	204.7	190.8	181.9	171.1	151.3	131.5	122.6	119.6
50°	4406.9	2302.8	215.5	184.9	174.0	164.1	150.3	127.5	105.8	94.9	92.9
52.5°	4455.3	2136.7	194.8	167.1	157.2	145.3	128.5	102.8	83.1	72.2	71.2
55°	4435.6	1927.1	176.0	150.3	137.4	123.6	106.8	82.1	61.3	52.4	50.4
57.5°	4331.7	1660.1	157.2	133.5	117.7	103.8	85.0	61.3	41.5	33.6	32.6
60°	4051.9	1296.3	138.4	114.7	99.9	85.0	67.2	43.5	25.7	18.8	18.8
62.5°	3579.3	962.1	120.6	95.9	84.0	68.2	47.5	27.7	13.8	9.9	8.9
65°	2991.0	709.9	100.9	81.1	70.2	53.4	33.6	16.8	6.9	3.0	2.0
67.5°	2087.3	438.0	84.0	66.2	57.3	38.6	20.8	6.9	3.0	0.0	0.0
70°	948.2	208.6	64.3	50.4	43.5	27.7	10.9	4.0	2.0	0.0	0.0
72.5°	294.6	109.8	45.5	36.6	29.7	17.8	5.9	3.0	2.0	0.0	0.0
75°	136.4	70.2	28.7	19.8	16.8	8.9	4.0	2.0	1.0	0.0	0.0
77.5°	101.8	54.4	16.8	10.9	8.9	5.9	3.0	2.0	1.0	0.0	0.0
80°	89.0	27.7	9.9	6.9	4.9	4.0	2.0	1.0	0.0	0.0	0.0
82.5°	80.1	13.8	5.9	4.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0
85°	43.5	7.9	4.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
87.5°	7.9	4.0	3.0	2.0	2.0	1.0	1.0	1.0	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)