

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: P954493

Luminaire Tested: **GALN-SB7D-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68267 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 512.8
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



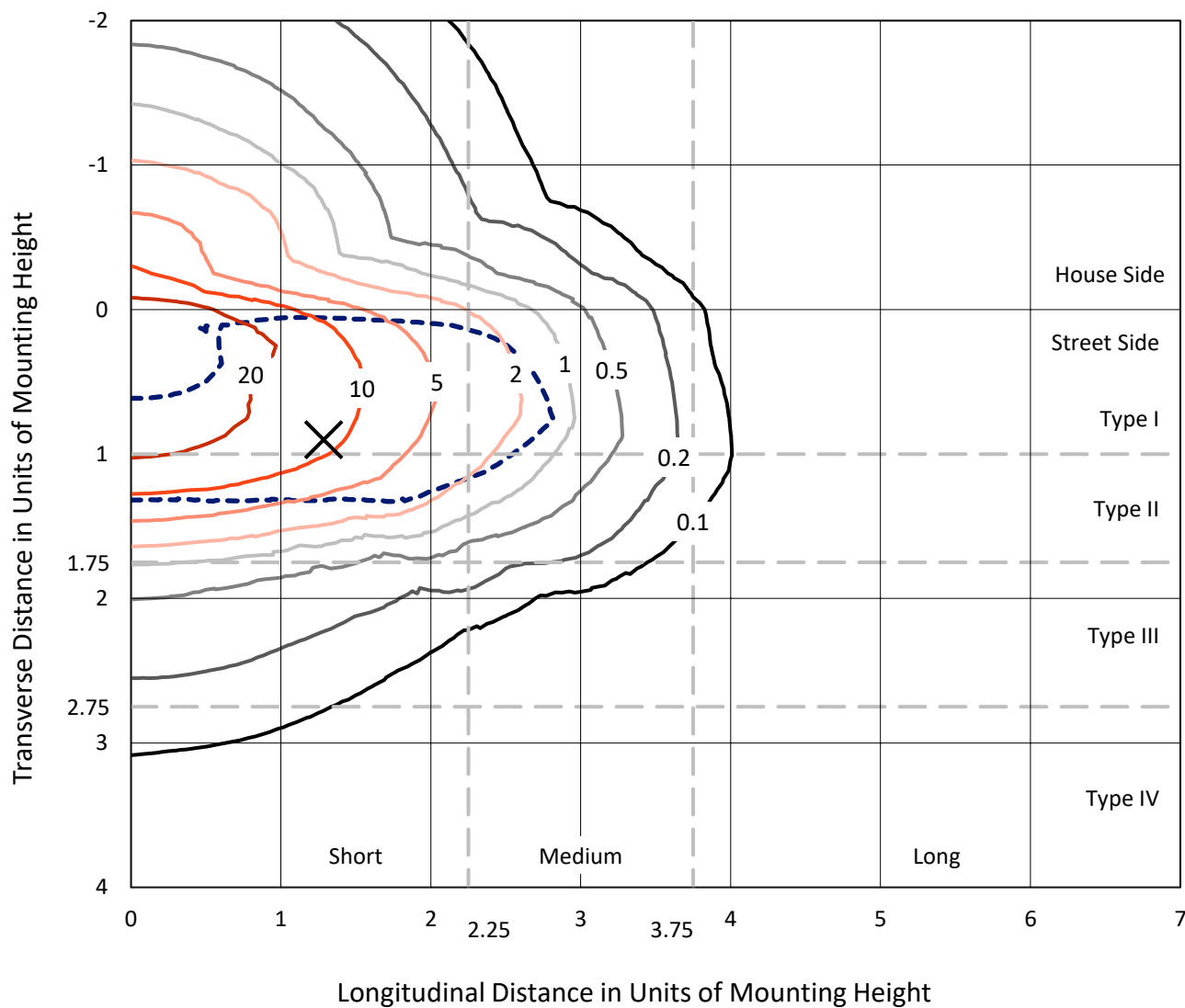
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

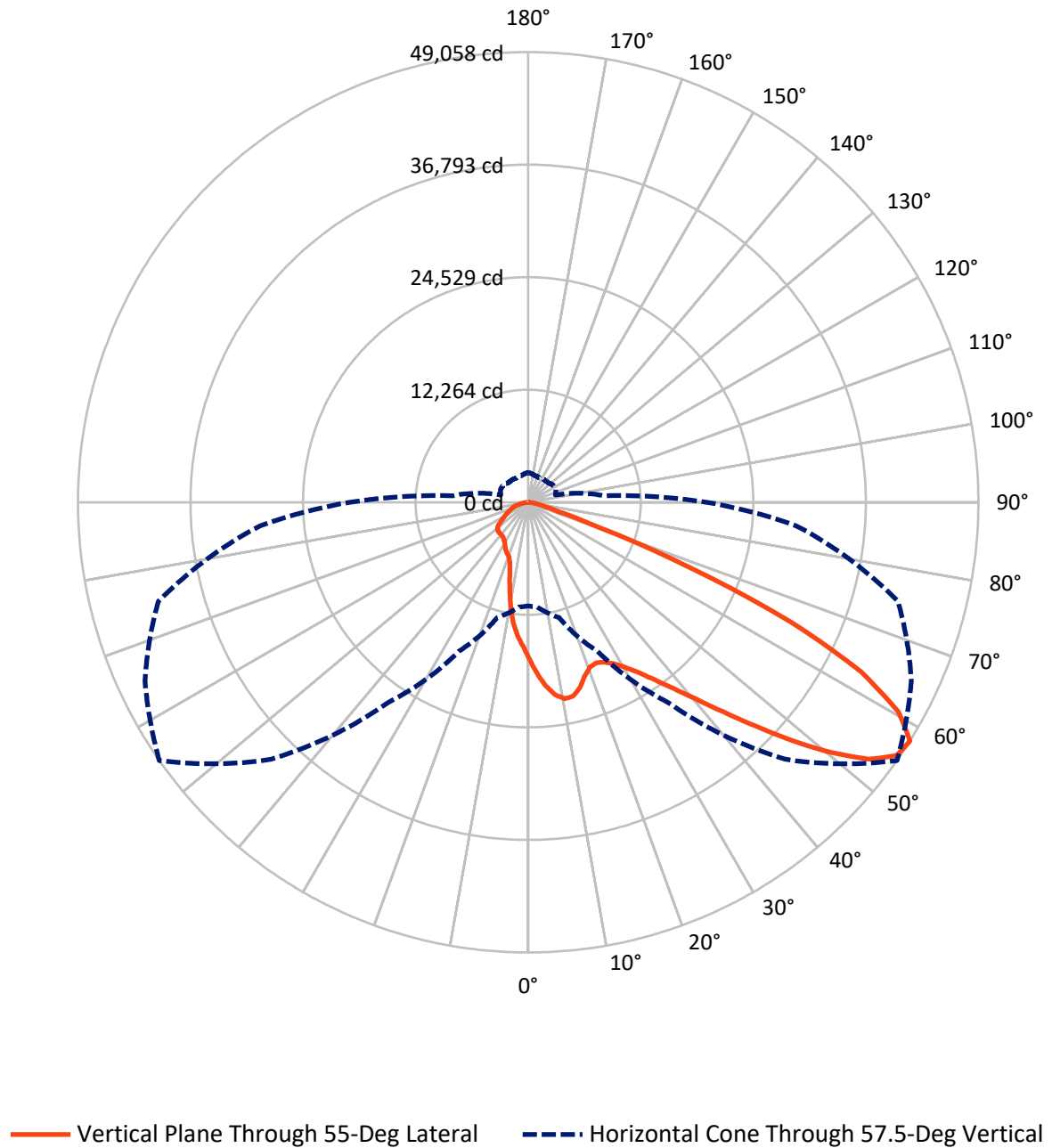


Based on 25 foot mounting height. Maximum calculated value = 33.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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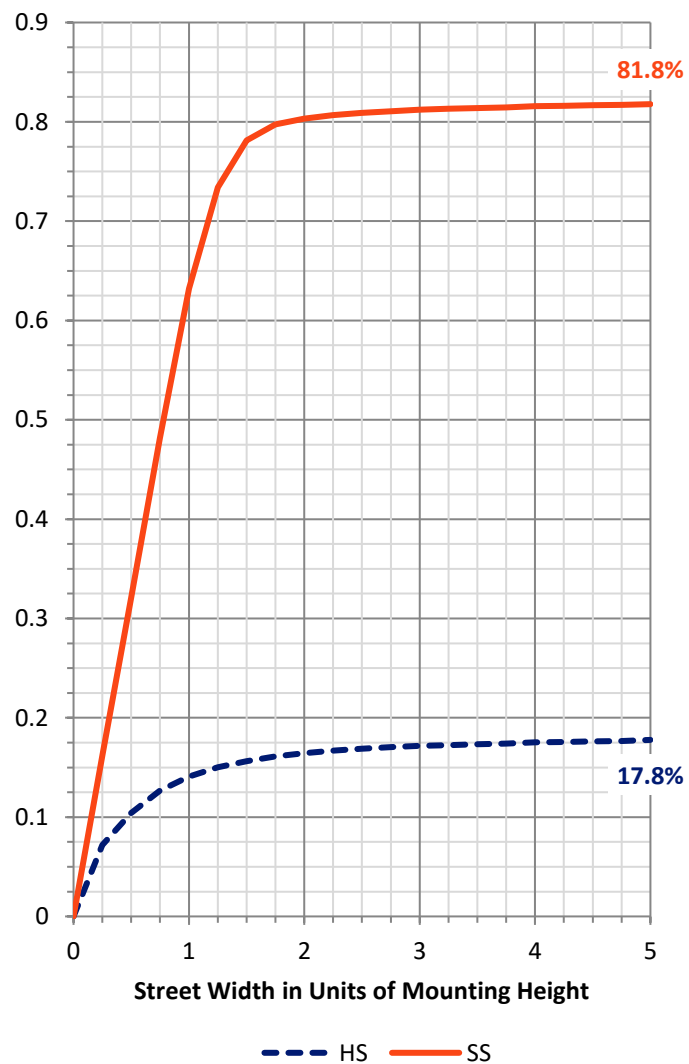
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12352.6	0.0	12352.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	55914.4	0.0	55914.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	68267.0	0.0	68267.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1587.3	2.3
10°-20°	4006.4	5.9
20°-30°	6393.1	9.4
30°-40°	10121.8	14.8
40°-50°	15492.4	22.7
50°-60°	16593.9	24.3
60°-70°	10439.3	15.3
70°-80°	3087.1	4.5
80°-90°	545.8	0.8
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°	68267.0	100.0
0°-180°	68267.0	100.0

Coefficient of Utilization



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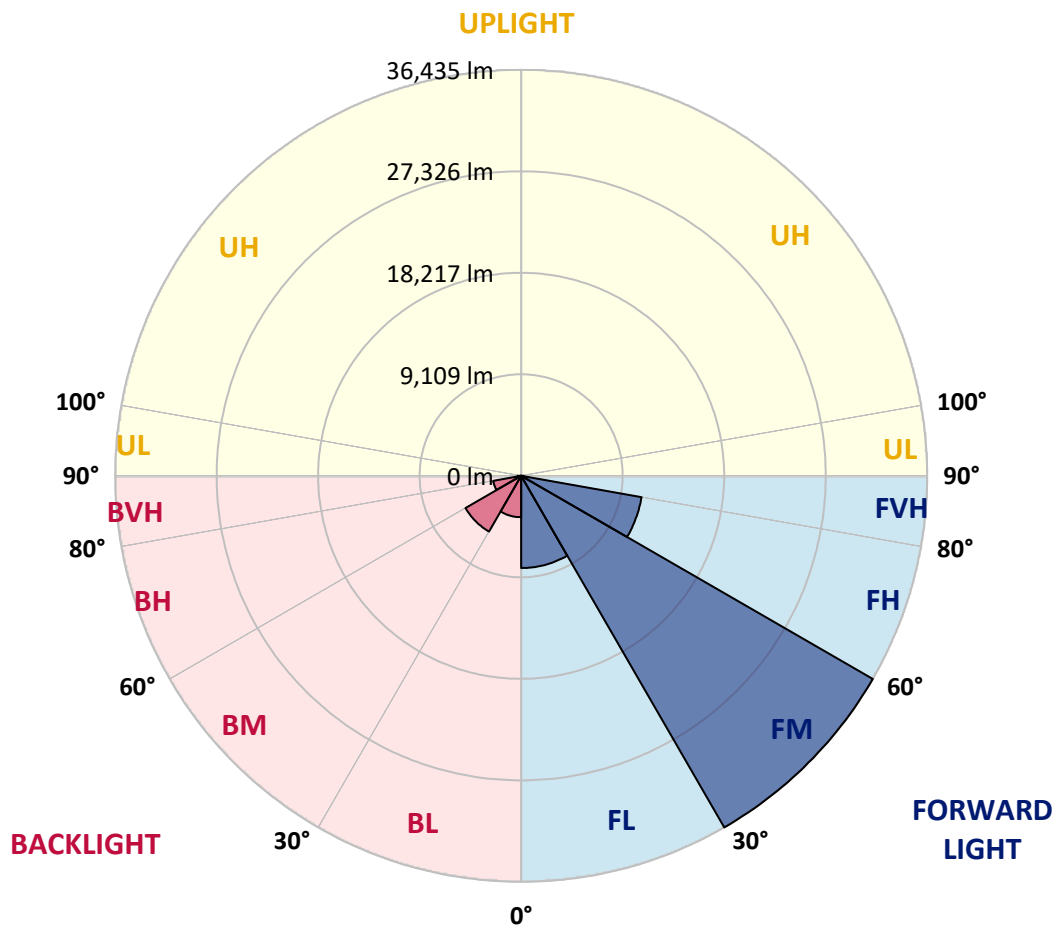
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8274.0	12.1			
FM	(30°-60°)	36434.6	53.4			
FH	(60°-80°)	10975.3	16.1			G4/12000
FVH	(80°-90°)	230.6	0.3			G3/500
BL	(0°-30°)	3712.8	5.4	B4/5000		
BM	(30°-60°)	5773.5	8.5	B4/8500		
BH	(60°-80°)	2551.1	3.7	B4/5000		G4/5000
BVH	(80°-90°)	315.2	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	17105.5	17105.5	17105.5	17105.5	17105.5	17105.5	17105.5	17105.5	17105.5	17105.5	17105.5
2.5°	19625.3	19611.1	19688.8	19424.1	19244.1	19000.6	18679.5	18270.1	17829.0	17363.1	17162.0
5°	21393.3	21269.8	21351.0	21153.4	20955.7	20588.7	20112.3	19445.3	18630.1	17701.9	17207.8
7.5°	21114.5	21029.8	21238.1	21414.5	21562.7	21516.9	21167.5	20468.7	19417.0	18068.9	17352.5
10°	18866.5	18771.2	19064.1	19674.7	20571.1	21351.0	21774.5	21340.4	20221.7	18471.3	17493.7
12.5°	16883.2	16837.3	17031.4	17525.5	18520.7	20017.0	21696.8	22102.7	21058.1	18947.7	17684.3
15°	16036.2	15979.7	16103.2	16353.8	16989.0	18383.0	20991.0	22625.0	21880.4	19498.2	17987.8
17.5°	15849.1	15785.6	15838.6	15969.1	16378.5	17440.8	19925.2	22882.6	22737.9	20112.3	18241.9
20°	16195.0	16142.1	16149.1	16142.1	16427.9	17271.4	19184.1	22783.8	23486.1	20676.9	18488.9
22.5°	17031.4	16943.2	16946.7	16759.6	16914.9	17567.8	18990.0	22519.1	24153.1	21171.0	18675.9
25°	18393.6	18234.8	18266.6	17790.1	17747.8	18231.3	19293.5	22314.4	24816.6	21566.3	18711.2
27.5°	20257.0	20077.0	19981.7	19272.4	18933.6	19173.5	19911.1	22385.0	25444.7	21908.6	18623.0
30°	22586.2	22367.4	22173.3	21167.5	20553.4	20465.2	20871.0	22850.9	26185.8	22268.6	18471.3
32.5°	25441.2	25187.1	24834.2	23500.2	22635.6	22173.3	22113.3	23680.2	27054.0	22727.3	18393.6
35°	28839.7	28508.0	28006.9	26281.1	25187.1	24241.3	23750.8	24876.5	28243.3	23419.0	18481.8
37.5°	32340.6	31966.5	31507.7	29453.8	28109.2	26715.2	25748.2	26499.9	29827.9	24357.8	18714.8
40°	35569.7	35149.7	34722.7	32894.6	31451.2	29771.4	28193.9	28553.9	31765.3	25480.0	19110.0
42.5°	37475.4	37164.8	37002.5	36014.4	34899.2	33194.6	31236.0	30988.9	33942.8	26771.7	19561.7
45°	37390.7	37263.7	37764.8	38174.2	37909.5	36963.7	34800.3	33681.6	36127.3	27890.4	19978.2
47.5°	35393.2	35477.9	36596.7	38897.6	39910.5	40404.5	38858.8	36324.9	38025.9	28726.8	20165.2
50°	29958.4	30029.0	32619.4	37581.3	40425.7	43210.2	42885.5	38904.7	39497.6	29238.5	20122.9
52.5°	25656.5	25702.4	26814.0	33678.1	38724.7	44621.8	46513.4	41336.2	40573.9	29379.7	19886.4
55°	19325.3	19484.1	20729.9	26422.3	34299.2	43503.1	48722.6	43841.9	41255.1	29393.8	19639.4
57.5°	11289.6	11462.5	13001.2	17934.8	26658.7	39603.4	49057.9	46065.2	41717.4	29280.9	19491.2
60°	5530.1	5604.2	6274.7	9426.2	16438.5	32090.0	46361.6	47141.6	41975.0	29220.9	19484.1
62.5°	3726.7	3716.1	3744.4	4651.3	8099.3	20616.9	40743.3	45257.0	41837.3	28991.5	19413.5
65°	3204.4	3165.6	3059.7	3264.4	4196.1	9429.7	31479.5	39631.7	40789.2	28416.2	18930.0
67.5°	2770.3	2773.9	2777.4	2713.9	2996.2	4351.4	19237.1	31218.3	37027.2	25691.8	17066.7
70°	2293.9	2325.7	2339.8	2339.8	2442.1	2855.0	8212.2	21396.9	29206.7	20144.0	13745.8
72.5°	2089.2	2022.2	2029.2	1993.9	1993.9	2173.9	3306.8	12129.5	18400.7	11331.9	8388.6
75°	1704.5	1746.9	1754.0	1729.3	1648.1	1658.7	1962.2	5088.9	7873.4	4700.7	4146.7
77.5°	1471.6	1471.6	1485.7	1468.1	1404.6	1242.2	1309.3	1972.8	2678.6	1926.9	2071.6
80°	1182.2	1178.7	1238.7	1274.0	1175.2	917.6	836.4	1090.5	1189.3	847.0	1076.4
82.5°	575.2	610.5	850.5	970.5	892.9	663.5	511.7	677.6	635.2	374.1	483.5
85°	335.3	317.6	381.1	540.0	511.7	367.0	247.0	352.9	331.7	190.6	194.1
87.5°	105.9	98.8	77.6	183.5	148.2	102.3	67.1	102.3	91.8	42.3	42.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	17105.5	17105.5	17105.5	17105.5	17105.5	17105.5	17105.5	17105.5	17105.5	17105.5
2.5°	16911.4	16495.0	16082.1	15704.4	15475.1	15326.8	15178.6	15012.7	14949.2	14853.9
5°	16742.0	15937.4	15221.0	14603.4	14042.2	13601.1	13156.4	12796.5	12634.1	12743.5
7.5°	16643.2	15478.6	14374.0	13241.1	12150.7	11279.0	10520.2	9987.3	9747.3	9807.3
10°	16555.0	14959.8	13276.4	11487.2	9920.3	8840.4	8064.0	7658.1	7506.4	7538.1
12.5°	16473.8	14377.5	11953.0	9599.1	7933.4	7220.5	6998.2	7001.7	7029.9	7051.1
15°	16459.7	13675.2	10474.3	7947.5	6860.5	6814.7	7054.6	7206.4	7287.6	7312.3
17.5°	16438.5	12835.3	8967.4	6821.7	6599.4	6910.0	7132.3	7231.1	7294.6	7298.2
20°	16353.8	11769.5	7577.0	6285.3	6542.9	6811.1	6948.8	7026.4	7079.4	7097.0
22.5°	16092.6	10583.7	6493.5	6045.3	6317.1	6532.3	6694.7	6782.9	6814.7	6835.8
25°	15623.3	9256.8	5745.4	5815.9	6003.0	6274.7	6405.3	6422.9	6412.4	6444.1
27.5°	15009.2	7834.6	5279.5	5505.4	5745.4	5978.3	6048.9	6038.3	6017.1	6052.4
30°	14268.1	6557.0	4983.1	5156.0	5484.2	5695.9	5759.5	5734.8	5692.4	5731.2
32.5°	13484.6	5512.4	4739.6	4912.5	5268.9	5477.1	5540.7	5516.0	5484.2	5516.0
35°	12754.1	4781.9	4513.7	4750.2	5099.5	5304.2	5385.4	5388.9	5388.9	5427.7
37.5°	12083.6	4354.9	4326.7	4647.8	4983.1	5166.6	5283.0	5290.1	5138.4	5148.9
40°	11462.5	4174.9	4242.0	4580.8	4870.1	5046.6	5053.7	4658.4	4379.6	4372.5
42.5°	10954.3	4139.6	4266.7	4573.7	4789.0	4796.0	4298.4	3991.4	3913.8	3917.3
45°	10477.9	4129.0	4323.1	4573.7	4669.0	4143.2	3807.9	3726.7	3733.8	3762.0
47.5°	9945.0	4086.7	4333.7	4510.2	4323.1	3684.4	3585.6	3550.3	3536.1	3543.2
50°	9362.7	3934.9	4199.6	4383.1	3730.2	3486.7	3363.2	3352.6	3370.3	3380.9
52.5°	8748.6	3687.9	3970.2	4153.7	3458.5	3313.8	3176.2	3200.9	3278.5	3303.2
55°	8346.3	3398.5	3666.7	3695.0	3267.9	3151.5	3035.0	3091.5	3236.2	3282.1
57.5°	8240.4	3091.5	3320.9	3289.1	3024.4	3010.3	2939.7	2989.1	3172.7	3239.7
60°	8208.7	2816.2	2982.1	2957.4	2788.0	2855.0	2837.4	2862.1	2925.6	2946.8
62.5°	7961.6	2597.4	2678.6	2643.3	2576.2	2692.7	2735.0	2682.1	2731.5	2756.2
65°	7333.4	2421.0	2382.1	2357.4	2385.7	2491.5	2576.2	2470.4	2516.2	2586.8
67.5°	6295.9	2181.0	2075.1	2103.3	2191.6	2248.0	2357.4	2237.4	2276.3	2396.3
70°	5092.5	1877.5	1782.2	1863.4	1948.1	2064.5	2082.2	2001.0	2092.7	2226.9
72.5°	3603.2	1570.4	1503.4	1669.3	1697.5	1849.2	1810.4	1771.6	1898.6	1944.5
75°	2498.6	1266.9	1228.1	1355.2	1457.5	1588.1	1559.9	1605.7	1873.9	1895.1
77.5°	1581.0	984.6	959.9	1041.1	1182.2	1326.9	1372.8	1895.1	3200.9	3327.9
80°	917.6	734.1	705.8	769.3	892.9	1027.0	1323.4	2325.7	2110.4	2085.7
82.5°	511.7	504.7	469.4	487.0	596.4	741.1	1870.4	1637.5	1330.5	1372.8
85°	240.0	296.4	254.1	243.5	335.3	868.2	1249.3	935.2	621.1	607.0
87.5°	63.5	56.5	56.5	63.5	141.2	748.2	497.6	398.8	236.4	229.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)