

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: P458030

Luminaire Tested: **GALN-SA9B-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458030
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-SA9B-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 33718 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 364
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

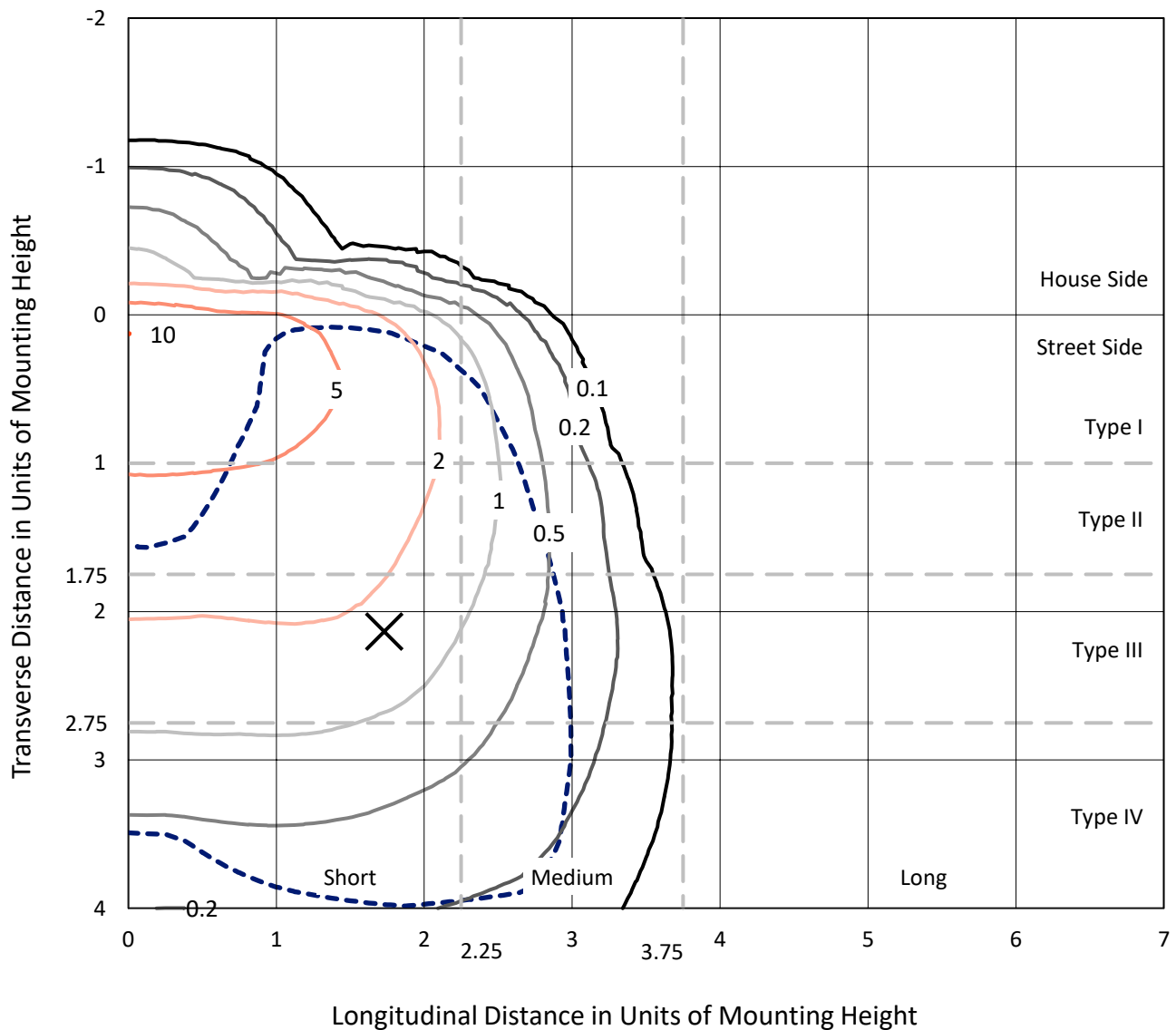


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Iso-Footcandle Lines of Horizontal Illumination

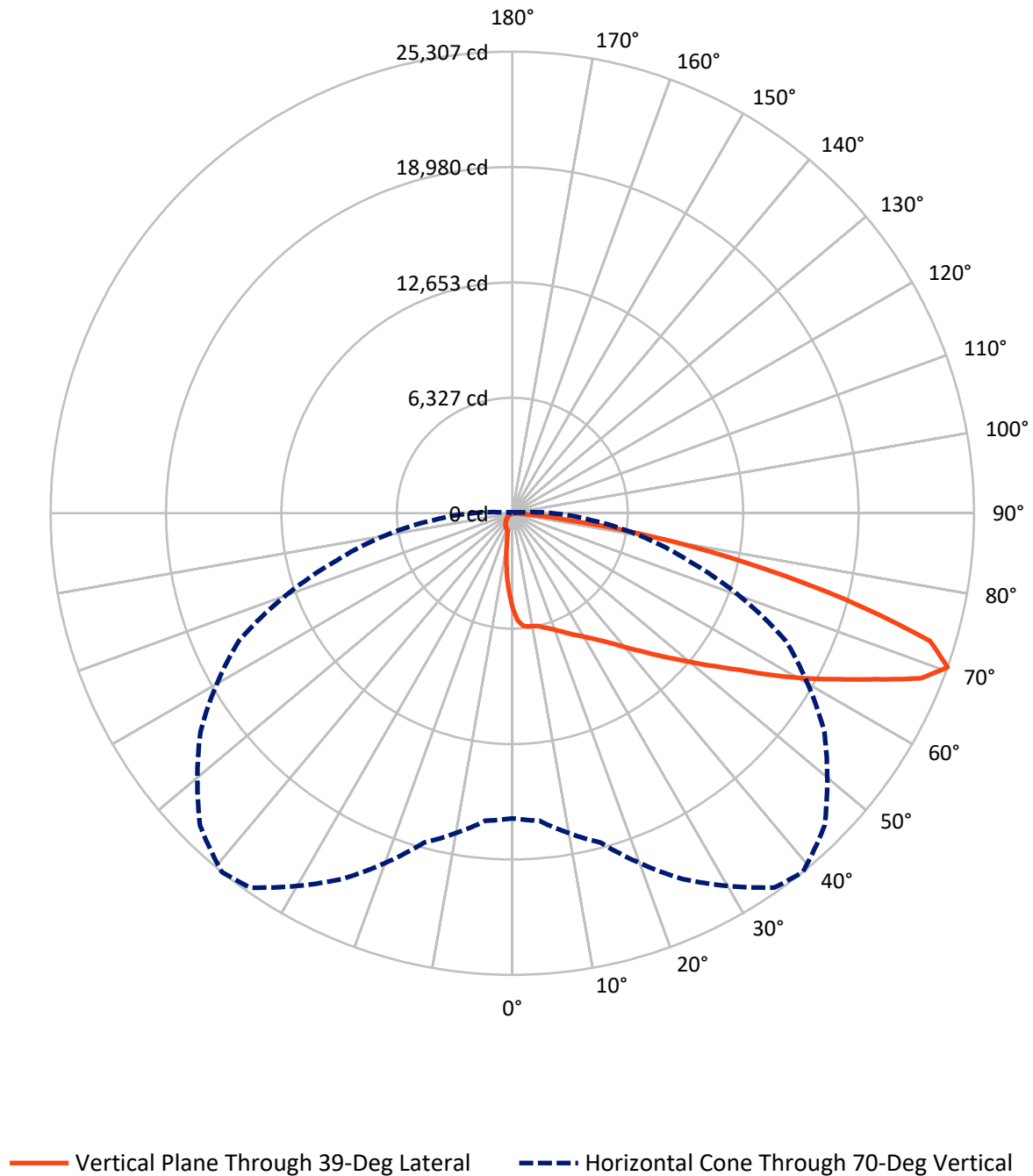
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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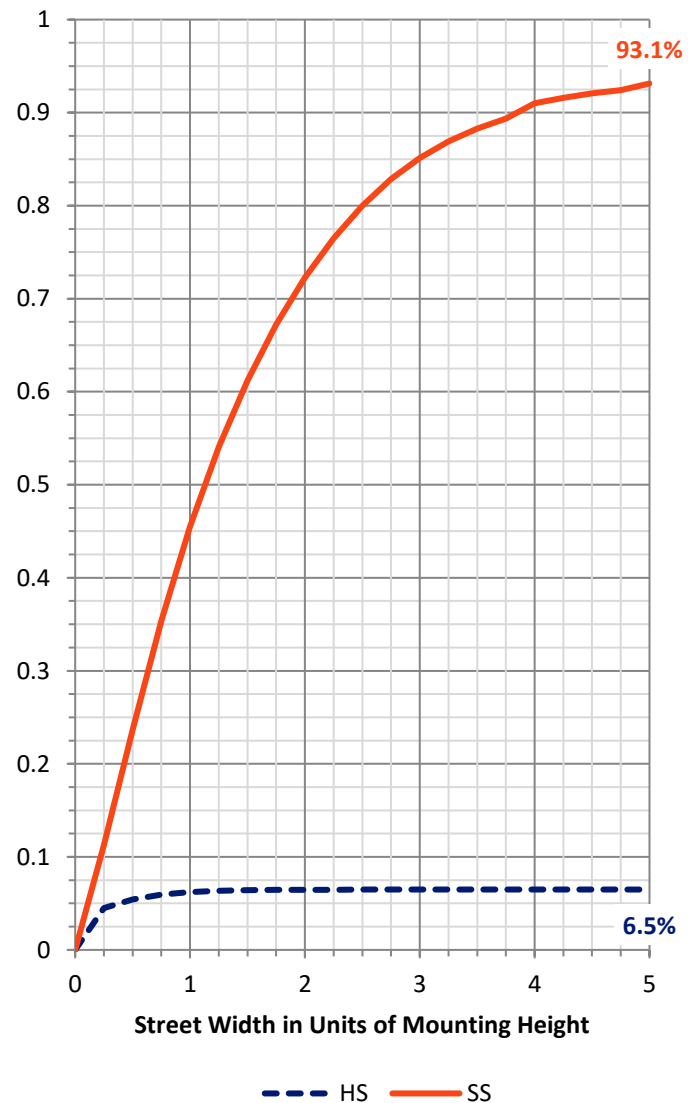
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2198.6	0.0	2198.6
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	31519.4	0.0	31519.4
	% Fixture	93.5	0.0	93.5
Total	Lumens	33718.0	0.0	33718.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.7	1.3
10°-20°	1166.1	3.5
20°-30°	1953.6	5.8
30°-40°	3029.8	9.0
40°-50°	4801.4	14.2
50°-60°	7038.1	20.9
60°-70°	9021.1	26.8
70°-80°	5668.6	16.8
80°-90°	590.5	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°	33718.0	100.0
0°-180°	33718.0	100.0

Coefficient of Utilization



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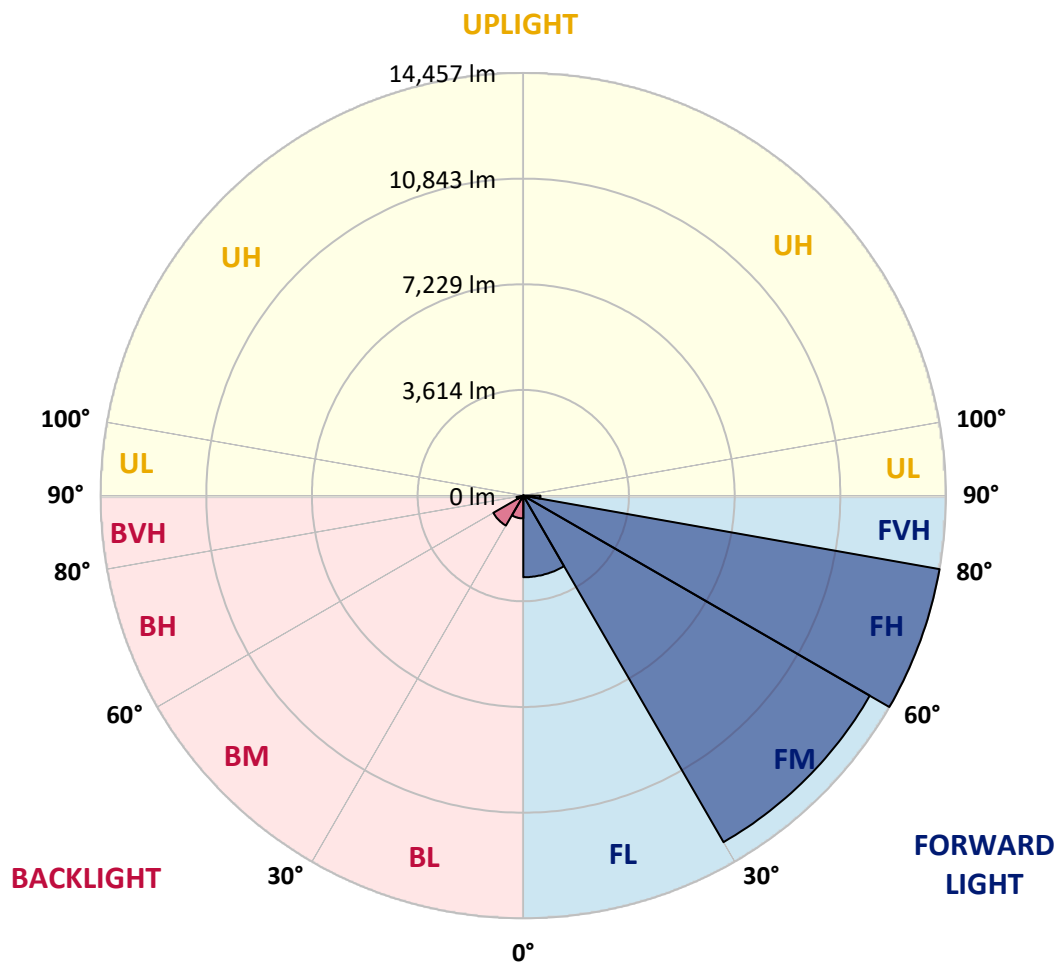
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2790.0	8.3			
FM	(30°-60°)	13686.1	40.6			
FH	(60°-80°)	14457.2	42.9			G5
FVH	(80°-90°)	586.2	1.7			G4/750
BL	(0°-30°)	778.5	2.3	B2/1000		
BM	(30°-60°)	1183.2	3.5	B2/2500		
BH	(60°-80°)	232.5	0.7	B1/500		G1/500
BVH	(80°-90°)	4.4	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2
2.5°	6079.1	6058.7	6031.5	5999.8	5909.2	5893.3	5838.9	5723.4	5585.2	5471.9	5315.5
5°	6366.9	6378.2	6357.8	6301.2	6235.5	6196.9	6129.0	5950.0	5771.0	5542.1	5286.1
7.5°	6432.6	6455.2	6430.3	6375.9	6312.5	6271.7	6217.3	6063.3	5854.8	5594.2	5243.0
10°	6425.8	6453.0	6437.1	6387.3	6335.1	6296.6	6237.7	6115.4	5947.7	5673.5	5256.6
12.5°	6414.5	6450.7	6448.4	6423.5	6380.5	6351.0	6314.8	6206.0	6049.7	5789.1	5331.4
15°	6382.7	6428.0	6468.8	6489.2	6491.5	6491.5	6446.2	6330.6	6181.1	5940.9	5428.8
17.5°	6396.3	6448.4	6550.4	6609.3	6650.1	6645.6	6598.0	6473.4	6308.0	6097.2	5530.8
20°	6480.2	6550.4	6693.1	6811.0	6851.7	6838.2	6774.7	6629.7	6441.6	6230.9	5630.5
22.5°	6686.3	6749.8	6928.8	7067.0	7096.5	7060.2	6969.6	6772.4	6602.5	6375.9	5750.6
25°	6994.5	7069.3	7234.7	7338.9	7338.9	7318.5	7191.6	6960.5	6783.8	6577.6	5906.9
27.5°	7368.3	7431.8	7594.9	7687.8	7633.4	7574.5	7447.7	7169.0	6999.0	6831.4	6095.0
30°	7746.7	7787.5	7959.7	8000.5	7943.9	7869.1	7733.1	7454.4	7304.9	7175.8	6366.9
32.5°	8104.7	8193.1	8335.8	8326.8	8249.7	8213.5	8088.9	7792.1	7708.2	7694.6	6747.5
35°	8462.7	8530.7	8657.6	8689.3	8621.3	8614.5	8523.9	8304.1	8306.4	8394.8	7341.2
37.5°	8770.9	8832.0	8981.6	9051.8	9065.4	9099.4	9063.2	8918.1	9124.3	9366.8	8127.4
40°	9029.2	9115.3	9305.6	9428.0	9568.4	9693.0	9699.8	9731.6	10146.2	10563.1	9153.8
42.5°	9230.8	9350.9	9627.3	9853.9	10175.7	10334.3	10461.2	10635.6	11333.5	11956.6	10363.7
45°	9493.7	9631.9	9976.3	10332.0	10835.0	11095.6	11272.3	11739.1	12729.2	13578.9	11605.4
47.5°	9928.7	10001.2	10352.4	10871.3	11532.9	11904.5	12248.9	12955.8	14226.9	14988.2	12638.6
50°	10488.3	10535.9	10801.0	11521.5	12378.0	12867.4	13495.0	14326.6	15781.2	16157.3	13223.2
52.5°	11106.9	11122.8	11322.2	12237.5	13325.1	13941.4	14643.8	15670.2	17047.8	16991.2	13610.6
55°	11825.2	11802.5	11972.4	13014.7	14446.7	15151.3	15969.3	17045.5	18146.7	17582.5	13832.6
57.5°	12647.6	12586.5	12751.9	14045.6	15883.2	16726.1	17557.6	18232.8	18998.6	18078.7	13939.1
60°	13508.6	13386.3	13583.4	15203.5	17575.7	18375.6	19066.6	19247.9	19895.9	18473.0	13755.6
62.5°	14195.2	14197.4	14564.5	16436.0	19315.9	20016.0	20383.0	20546.2	20668.5	18386.9	12790.4
65°	15266.9	15303.1	15890.0	18146.7	21330.1	21937.4	22188.9	21658.7	20702.5	17317.4	11340.3
67.5°	16372.6	16488.2	17562.1	20503.1	23657.1	24146.5	23822.5	21873.9	19778.1	14877.2	8598.7
70°	16732.9	16923.2	18692.8	22125.4	25052.8	25306.6	24210.0	20870.2	16533.5	9946.8	4327.7
72.5°	15332.6	15640.7	18042.5	21534.1	24162.4	23942.6	21661.0	17503.2	10511.0	3777.1	1321.0
75°	10812.4	10948.3	14995.0	17863.5	19433.7	18810.6	16476.8	11283.6	4323.1	1060.4	453.2
77.5°	5582.9	5517.2	8918.1	11852.3	13859.8	13214.1	10789.7	5841.2	1638.2	441.8	281.0
80°	2886.6	2934.2	3858.6	6210.5	8460.5	7785.3	5752.8	2707.6	872.3	244.7	215.3
82.5°	1617.8	1518.1	2218.2	2712.2	3956.1	3101.9	2206.9	1916.9	380.7	147.3	203.9
85°	294.6	308.1	1216.7	1466.0	1373.1	872.3	711.5	1280.2	111.0	81.6	142.7
87.5°	4.5	4.5	235.6	421.4	267.4	122.4	224.3	183.5	22.7	31.7	24.9
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°	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2	5261.2
2.5°	5236.2	5150.1	4989.3	4830.7	4629.0	4463.6	4352.6	4237.0	4119.2	4128.3	4155.5
5°	5145.6	4996.1	4678.9	4343.5	4021.8	3731.8	3446.3	3190.2	3086.0	2990.8	2995.4
7.5°	5055.0	4844.3	4379.8	3854.1	3367.0	2873.0	2515.0	2220.5	2064.1	1946.3	1912.3
10°	5014.2	4735.5	4105.6	3382.8	2691.8	2152.5	1692.5	1452.4	1266.6	1207.7	1223.5
12.5°	5032.3	4681.1	3858.6	2956.9	2134.4	1500.0	1178.2	1055.9	1015.1	1008.3	1003.7
15°	5066.3	4642.6	3616.2	2485.6	1567.9	1114.8	990.2	967.5	963.0	958.4	960.7
17.5°	5111.6	4608.6	3357.9	2043.7	1203.1	974.3	938.0	926.7	924.4	924.4	924.4
20°	5156.9	4570.1	3070.1	1649.5	1003.7	919.9	897.3	890.5	888.2	888.2	885.9
22.5°	5209.1	4536.1	2777.9	1296.0	924.4	881.4	861.0	856.5	854.2	851.9	851.9
25°	5283.8	4493.1	2467.4	1060.4	874.6	845.1	824.7	820.2	818.0	808.9	811.2
27.5°	5383.5	4461.3	2148.0	915.4	829.3	799.8	786.2	779.4	774.9	768.1	770.4
30°	5519.5	4434.2	1808.1	836.1	777.2	752.2	738.6	734.1	729.6	722.8	722.8
32.5°	5755.1	4445.5	1450.1	772.6	729.6	700.1	686.5	682.0	677.5	670.7	670.7
35°	6108.6	4511.2	1160.1	718.3	672.9	643.5	629.9	629.9	623.1	614.0	611.8
37.5°	6686.3	4678.9	931.2	666.1	618.6	591.4	575.5	571.0	564.2	550.6	548.3
40°	7368.3	4939.4	784.0	614.0	568.7	541.5	527.9	514.3	496.2	482.6	480.3
42.5°	8224.8	5206.8	679.7	561.9	521.1	496.2	480.3	457.7	430.5	412.4	410.1
45°	9117.5	5451.5	609.5	514.3	475.8	455.4	437.3	401.0	367.1	344.4	342.1
47.5°	9783.7	5496.8	552.9	469.0	437.3	416.9	392.0	346.7	301.4	281.0	274.2
50°	10098.6	5277.0	493.9	423.7	398.8	376.1	344.4	292.3	242.4	217.5	213.0
52.5°	10209.7	4896.4	446.4	382.9	360.3	333.1	294.6	235.6	190.3	165.4	163.1
55°	10164.3	4416.0	403.3	344.4	314.9	283.2	244.7	188.1	140.5	120.1	115.6
57.5°	9926.4	3804.3	360.3	305.9	269.6	237.9	194.9	140.5	95.2	77.0	74.8
60°	9285.2	2970.5	317.2	262.8	228.8	194.9	154.1	99.7	58.9	43.1	43.1
62.5°	8202.2	2204.6	276.4	219.8	192.6	156.3	108.8	63.4	31.7	22.7	20.4
65°	6854.0	1626.8	231.1	185.8	160.9	122.4	77.0	38.5	15.9	6.8	4.5
67.5°	4783.1	1003.7	192.6	151.8	131.4	88.4	47.6	15.9	6.8	0.0	0.0
70°	2172.9	478.1	147.3	115.6	99.7	63.4	24.9	9.1	4.5	0.0	0.0
72.5°	675.2	251.5	104.2	83.8	68.0	40.8	13.6	6.8	4.5	0.0	0.0
75°	312.7	160.9	65.7	45.3	38.5	20.4	9.1	4.5	2.3	0.0	0.0
77.5°	233.4	124.6	38.5	24.9	20.4	13.6	6.8	4.5	2.3	0.0	0.0
80°	203.9	63.4	22.7	15.9	11.3	9.1	4.5	2.3	0.0	0.0	0.0
82.5°	183.5	31.7	13.6	9.1	6.8	4.5	2.3	2.3	0.0	0.0	0.0
85°	99.7	18.1	9.1	6.8	4.5	2.3	2.3	0.0	0.0	0.0	0.0
87.5°	18.1	9.1	6.8	4.5	4.5	2.3	2.3	2.3	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)