

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: P457345

Luminaire Tested: **GALN-SA8C-830-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457345
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-SA8C-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA 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: 33121 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): 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

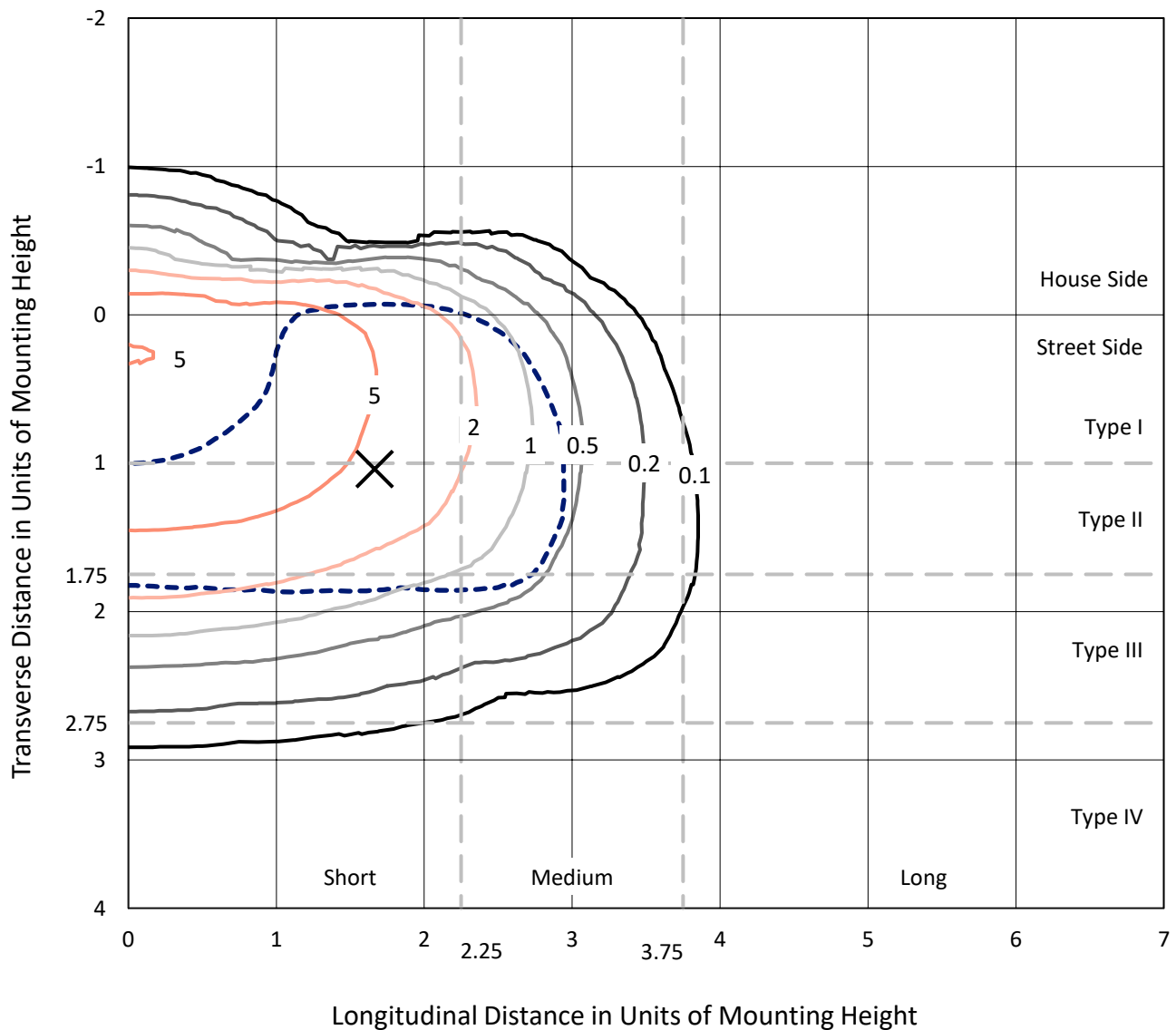


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

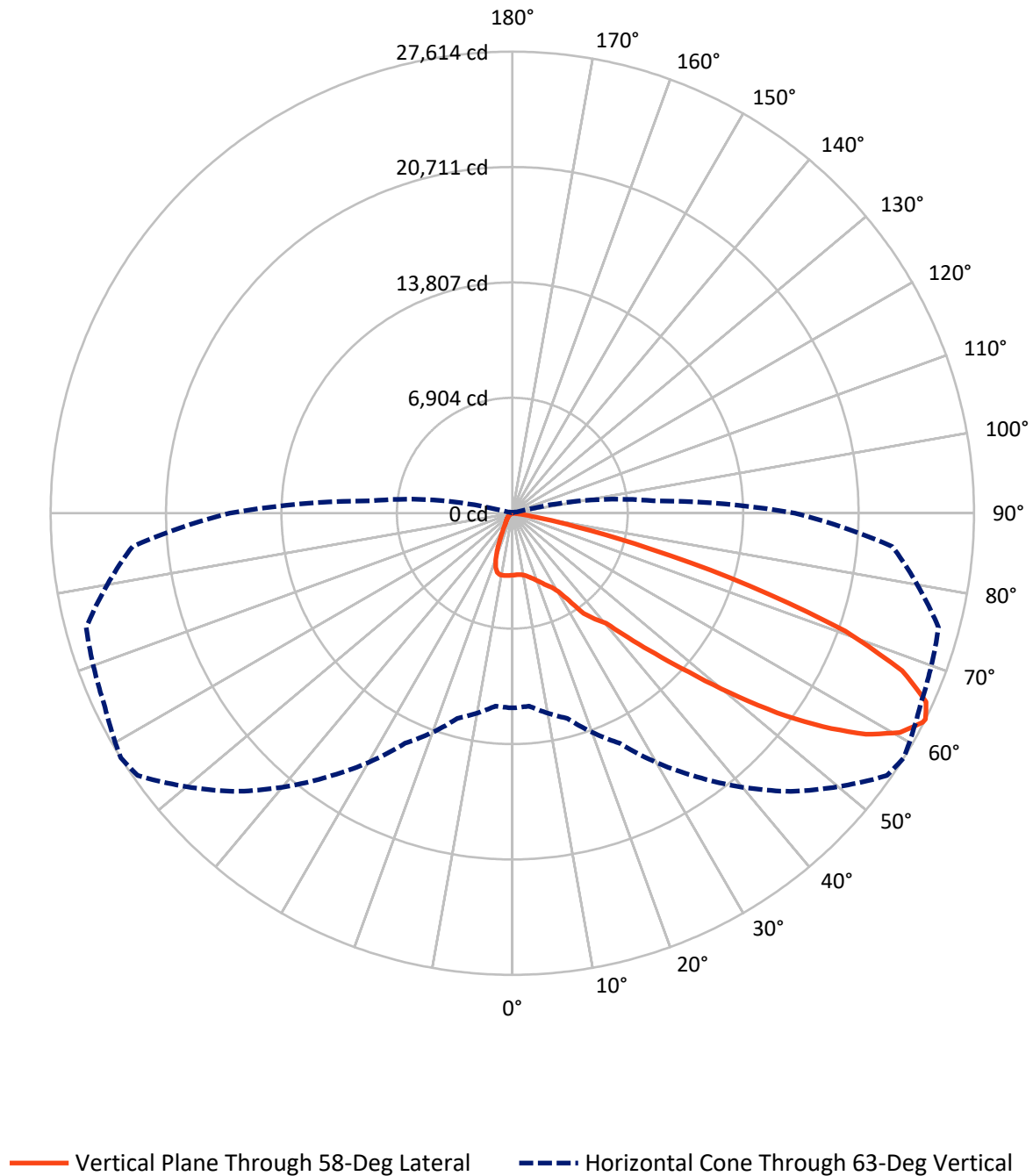


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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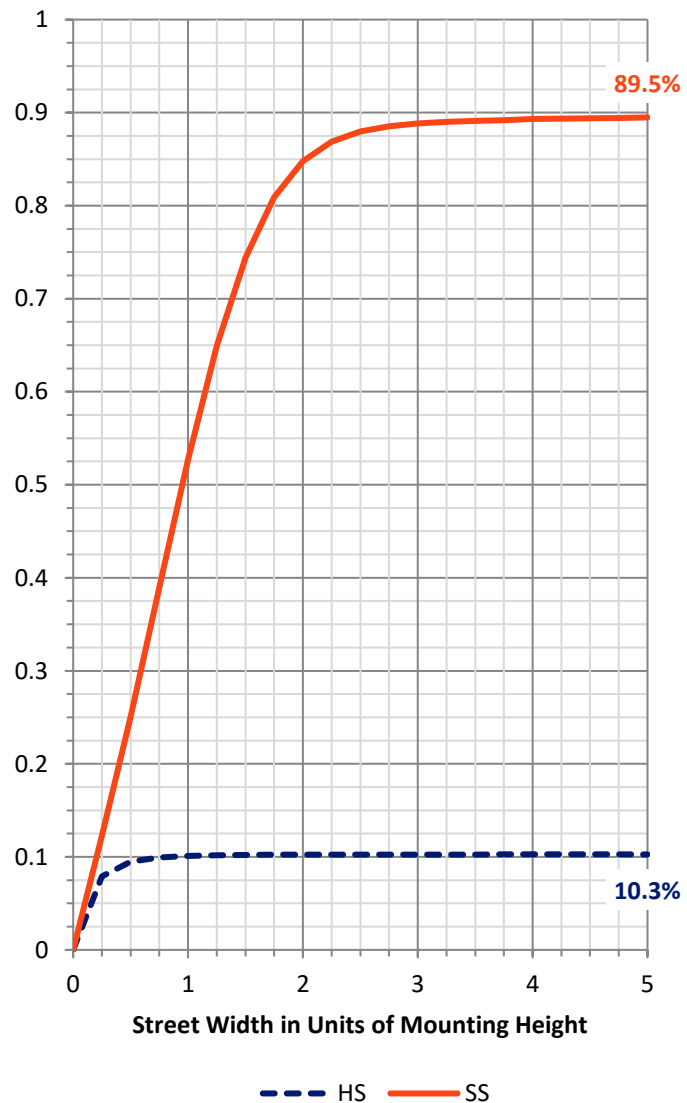
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3429.5	0.0	3429.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	29691.5	0.0	29691.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	33121.0	0.0	33121.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.1	1.0
10°-20°	945.4	2.9
20°-30°	1640.8	5.0
30°-40°	3015.2	9.1
40°-50°	5676.1	17.1
50°-60°	9708.6	29.3
60°-70°	9296.0	28.1
70°-80°	2370.5	7.2
80°-90°	121.2	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°	33121.0	100.0
0°-180°	33121.0	100.0

Coefficient of Utilization



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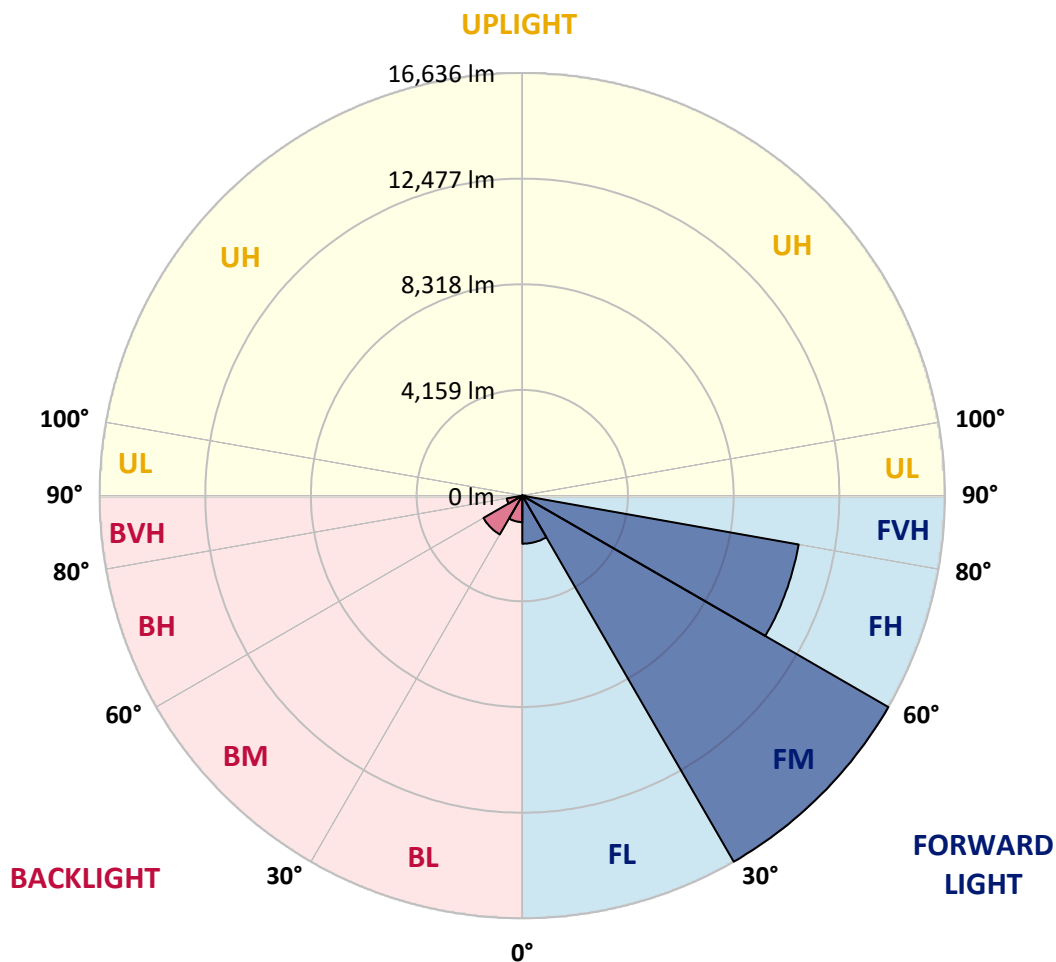
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1893.3	5.7			
FM	(30°-60°)	16636.0	50.2			
FH	(60°-80°)	11045.7	33.3			G4/12000
FVH	(80°-90°)	116.5	0.4			G2/225
BL	(0°-30°)	1040.1	3.1	B3/2500		
BM	(30°-60°)	1763.9	5.3	B2/2500		
BH	(60°-80°)	620.8	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0
2.5°	3615.8	3628.2	3640.7	3645.7	3663.1	3680.6	3693.1	3690.6	3710.5	3720.5	3720.5
5°	3471.1	3471.1	3503.5	3533.5	3583.3	3633.2	3680.6	3690.6	3728.0	3762.9	3775.4
7.5°	3348.9	3356.4	3381.4	3436.2	3503.5	3590.8	3685.6	3708.0	3772.9	3850.2	3882.6
10°	3291.6	3296.6	3329.0	3386.3	3471.1	3590.8	3723.0	3765.4	3865.1	3987.3	4032.2
12.5°	3279.1	3286.6	3319.0	3383.9	3481.1	3625.7	3805.3	3850.2	3994.8	4151.9	4219.2
15°	3301.6	3306.6	3339.0	3408.8	3516.0	3688.1	3915.0	3977.3	4149.4	4331.4	4418.7
17.5°	3381.4	3376.4	3398.8	3456.2	3575.9	3765.4	4047.2	4122.0	4324.0	4573.3	4630.7
20°	3720.5	3688.1	3668.1	3618.3	3665.6	3875.1	4206.7	4316.5	4565.8	4820.2	4860.1
22.5°	4451.1	4378.8	4236.7	4042.2	3892.6	4024.7	4398.8	4525.9	4847.6	5097.0	5097.0
25°	5381.2	5289.0	5146.8	4722.9	4356.4	4271.6	4615.7	4775.3	5154.3	5406.2	5323.9
27.5°	6545.8	6473.5	6196.7	5702.9	5141.9	4703.0	4867.6	5014.7	5426.1	5730.4	5558.3
30°	7493.4	7458.4	7231.5	6790.1	6171.7	5530.9	5336.4	5433.6	5787.7	6139.3	5962.3
32.5°	8293.8	8293.8	8061.9	7650.4	7071.9	6503.4	6131.8	6201.7	6540.8	6947.2	6618.1
35°	9174.1	9144.1	8957.1	8565.6	7917.3	7416.0	7263.9	7358.7	7665.4	7967.1	7156.7
37.5°	10099.2	10089.2	9894.7	9515.7	8987.0	8356.1	7999.6	8024.5	8181.6	8366.1	7787.6
40°	11104.1	11119.1	10864.7	10630.3	10131.6	9485.8	8802.5	8645.4	8792.5	9313.7	8952.1
42.5°	12291.1	12256.2	12146.5	11827.3	11425.8	11039.3	10218.9	10161.5	10291.2	10849.8	10458.3
45°	13670.1	13719.9	13530.4	13353.4	13084.1	12762.4	12076.6	11976.9	12119.0	12986.8	12430.7
47.5°	15051.5	15004.2	15126.3	15093.9	15238.6	14999.2	14393.2	14188.7	14530.4	15353.3	14535.4
50°	16103.8	16156.2	16410.6	16782.1	17403.0	17537.7	16956.7	16886.8	17039.0	17567.6	16418.0
52.5°	16787.1	16961.7	17360.6	18315.7	19435.3	20305.6	19864.2	19826.8	19764.5	19906.6	18218.4
55°	17233.5	17410.5	17931.7	19338.1	21265.7	22679.5	22702.0	22542.4	22130.9	22028.7	19901.6
57.5°	16959.2	16994.1	17737.2	19617.4	22280.6	24372.7	25105.8	24946.2	24185.7	23799.2	21387.8
60°	15243.5	15315.9	16350.7	18560.1	21839.2	24926.3	26699.3	26627.0	25794.1	25357.7	22544.9
62.5°	12203.8	12413.3	13478.1	15941.8	19786.9	23993.7	27345.1	27549.6	26901.3	26300.3	22909.0
63°	11645.2	11577.9	12702.5	15178.7	19243.3	23532.4	27355.1	27614.4	26951.1	26390.1	22809.2
65°	8620.5	8822.5	9553.1	11969.4	16014.1	21385.3	26739.2	27198.0	26766.6	25993.6	21704.5
67.5°	4840.1	4830.2	5638.1	7832.5	11208.9	16774.6	24178.2	25148.2	25058.5	23325.4	17991.5
70°	2368.9	2406.4	2738.0	4059.6	6500.9	11572.9	20091.2	21138.5	21170.9	18320.7	12440.7
72.5°	1072.3	1089.7	1326.6	1977.4	3341.5	6161.8	13844.6	14844.6	14660.0	11675.2	6869.9
75°	566.1	603.5	730.6	995.0	1610.9	2541.0	7530.8	8498.3	8111.8	5333.9	2528.5
77.5°	418.9	431.4	496.2	633.4	862.8	990.0	3249.2	3865.1	3620.7	1930.1	837.9
80°	306.7	316.7	369.1	448.9	543.6	503.7	1224.4	1403.9	1259.3	655.8	256.8
82.5°	187.0	189.5	269.3	334.1	341.6	281.8	404.0	433.9	453.8	369.1	139.6
85°	67.3	84.8	182.0	241.9	202.0	142.1	169.6	187.0	204.5	234.4	82.3
87.5°	7.5	10.0	87.3	117.2	57.4	52.4	62.3	69.8	74.8	87.3	39.9
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°	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0
2.5°	3730.5	3740.4	3733.0	3720.5	3718.0	3710.5	3695.6	3695.6	3695.6	3700.5	3695.6
5°	3785.3	3792.8	3775.4	3750.4	3723.0	3688.1	3650.7	3628.2	3625.7	3620.7	3608.3
7.5°	3890.1	3900.0	3860.1	3800.3	3725.5	3640.7	3560.9	3486.1	3451.2	3423.8	3423.8
10°	4042.2	4052.1	3972.3	3865.1	3715.5	3543.4	3353.9	3181.9	3047.2	2984.9	2969.9
12.5°	4224.2	4229.2	4097.0	3910.0	3663.1	3331.5	2927.5	2551.0	2289.2	2169.5	2157.0
15°	4423.7	4388.8	4214.2	3927.5	3513.5	2895.1	2196.9	1735.6	1463.8	1384.0	1413.9
17.5°	4625.7	4560.8	4304.0	3900.0	3176.9	2196.9	1476.2	1184.5	1099.7	1077.2	1077.2
20°	4815.2	4725.4	4368.8	3780.3	2593.4	1513.6	1094.7	1024.9	1009.9	995.0	997.5
22.5°	5004.7	4867.6	4426.2	3513.5	1932.6	1082.2	980.0	957.6	937.6	917.7	915.2
25°	5189.2	4999.7	4448.6	3019.8	1316.6	930.1	895.2	865.3	825.4	802.9	798.0
27.5°	5381.2	5159.3	4433.7	2396.4	960.0	832.9	798.0	755.6	708.2	668.3	668.3
30°	5750.3	5463.5	4381.3	1723.1	807.9	733.1	688.2	620.9	568.5	528.6	526.2
32.5°	6254.0	5860.0	4201.8	1211.9	718.2	645.8	578.5	503.7	448.9	418.9	418.9
35°	6702.9	6259.0	3865.1	892.7	645.8	561.1	478.8	406.5	364.1	344.1	336.6
37.5°	7386.1	6842.5	3401.3	725.6	576.0	486.3	401.5	334.1	299.2	284.3	284.3
40°	8411.0	7555.7	2832.8	635.9	508.7	413.9	334.1	281.8	254.4	236.9	236.9
42.5°	9682.8	8428.5	2256.7	571.0	446.4	356.6	279.3	239.4	214.5	202.0	199.5
45°	11283.7	9348.6	1738.1	511.2	396.5	304.2	236.9	202.0	177.0	169.6	172.1
47.5°	12954.4	10159.0	1346.6	458.8	344.1	256.8	202.0	174.6	157.1	147.1	147.1
50°	14380.7	10717.6	1022.4	399.0	304.2	216.9	177.0	157.1	142.1	137.1	134.7
52.5°	15572.7	10879.7	783.0	346.6	266.8	187.0	157.1	142.1	129.7	122.2	122.2
55°	16587.6	10737.6	613.4	291.8	224.4	162.1	139.6	127.2	112.2	104.7	102.2
57.5°	17181.1	10281.2	468.8	241.9	182.0	134.7	122.2	107.2	89.8	77.3	77.3
60°	17480.3	9617.9	359.1	199.5	139.6	107.2	99.7	79.8	62.3	52.4	49.9
62.5°	17121.2	8737.7	271.8	157.1	104.7	79.8	67.3	57.4	39.9	29.9	29.9
63°	16899.3	8483.3	261.8	149.6	97.3	74.8	62.3	52.4	34.9	27.4	24.9
65°	15405.6	7373.7	214.5	119.7	77.3	52.4	42.4	37.4	24.9	12.5	10.0
67.5°	12233.7	5640.6	169.6	89.8	54.9	37.4	24.9	22.4	7.5	0.0	0.0
70°	8271.4	3643.2	132.2	64.8	37.4	22.4	12.5	10.0	2.5	0.0	0.0
72.5°	4314.0	1867.7	102.2	47.4	22.4	15.0	7.5	2.5	0.0	0.0	0.0
75°	1526.1	635.9	74.8	29.9	15.0	7.5	2.5	0.0	0.0	0.0	0.0
77.5°	461.3	236.9	47.4	22.4	10.0	5.0	0.0	0.0	0.0	0.0	0.0
80°	162.1	87.3	27.4	15.0	7.5	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	79.8	42.4	17.5	12.5	7.5	2.5	0.0	0.0	0.0	0.0	0.0
85°	44.9	27.4	15.0	12.5	7.5	5.0	0.0	0.0	0.0	0.0	0.0
87.5°	32.4	19.9	15.0	12.5	10.0	5.0	2.5	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)