

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: P269723

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-SL4-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA 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: 27371.6 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 323
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: 25 FT

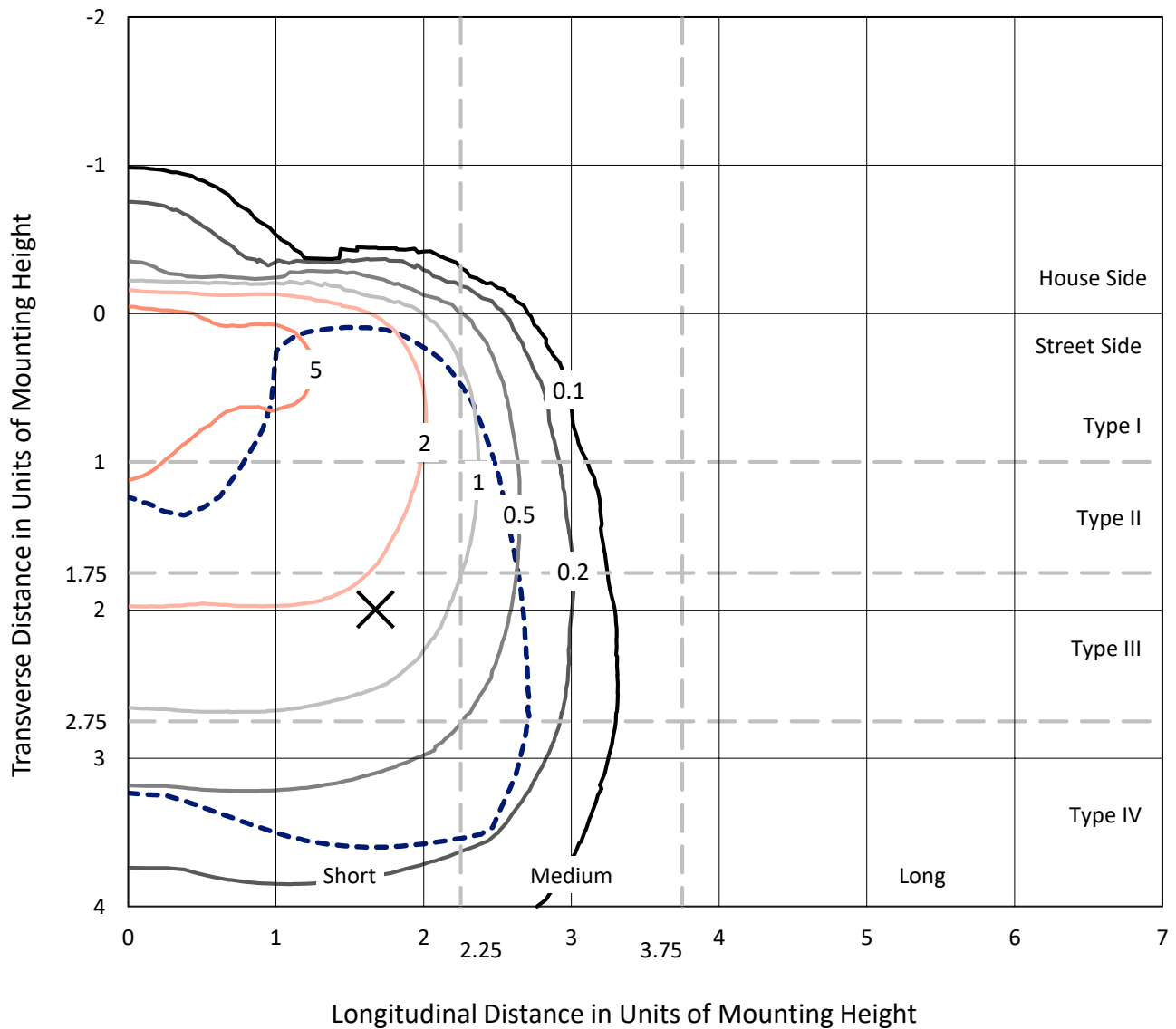


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

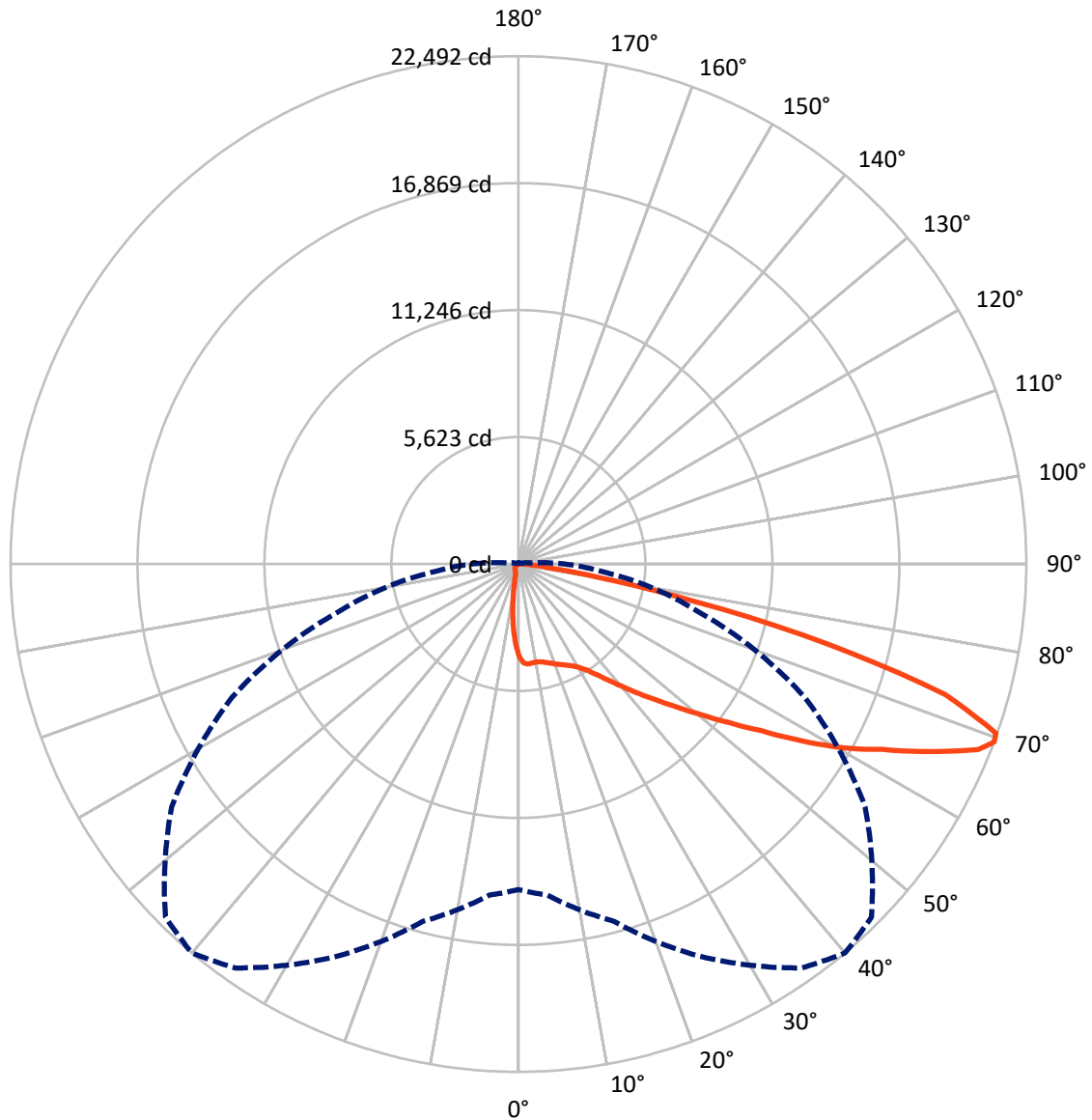


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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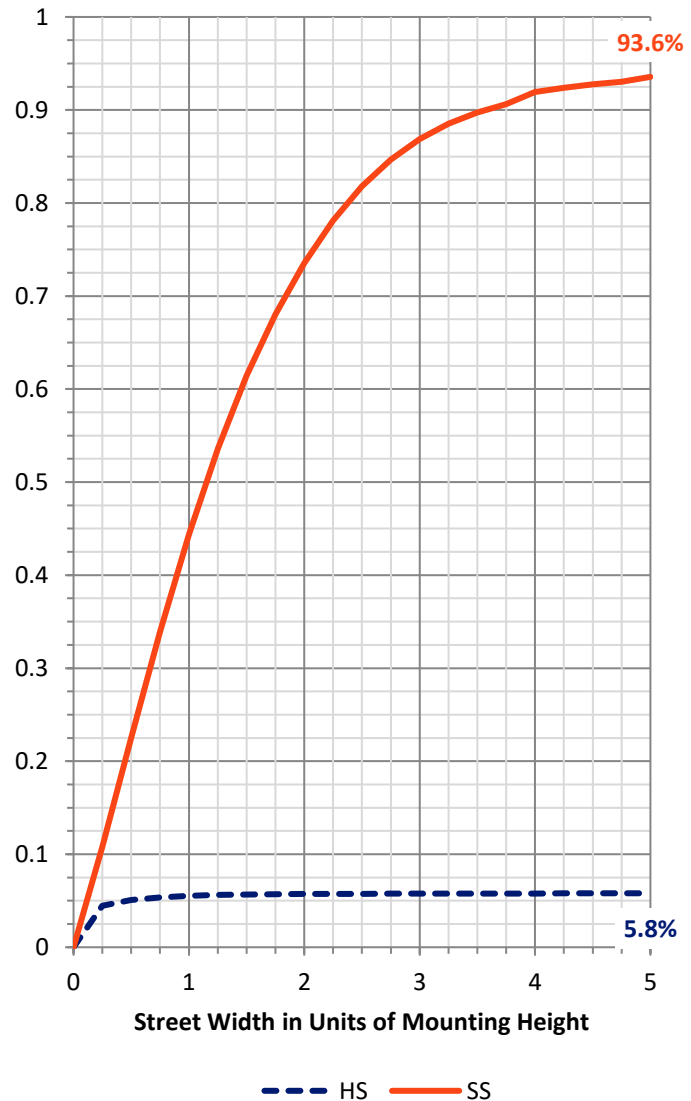
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1601.4	0.0	1601.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	25770.2	0.0	25770.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	27371.6	0.0	27371.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.6	1.2
10°-20°	815.4	3.0
20°-30°	1373.4	5.0
30°-40°	2248.3	8.2
40°-50°	3892.9	14.2
50°-60°	6131.7	22.4
60°-70°	8007.8	29.3
70°-80°	4124.4	15.1
80°-90°	446.1	1.6
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°	27371.6	100.0
0°-180°	27371.6	100.0

Coefficient of Utilization



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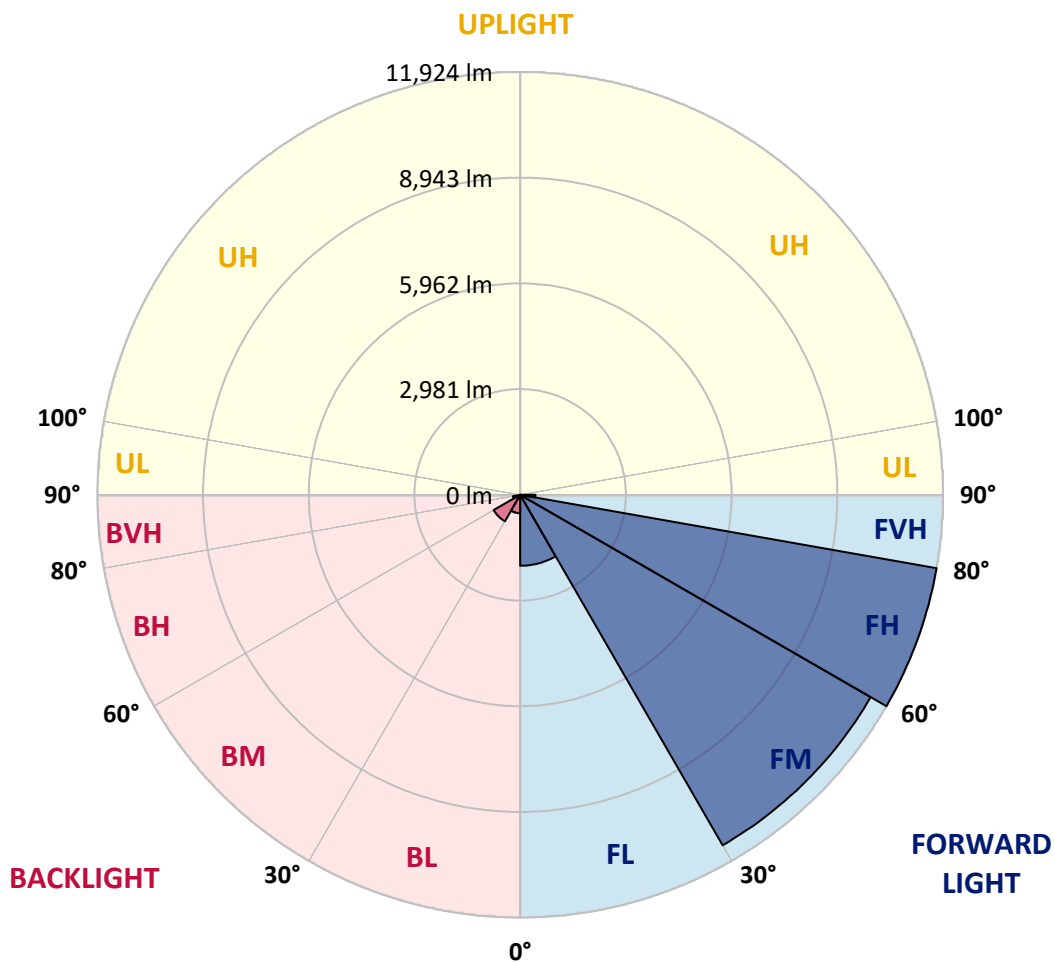
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2001.6	7.3			
FM	(30°-60°)	11412.2	41.7			
FH	(60°-80°)	11924.2	43.6			G4/12000
FVH	(80°-90°)	432.1	1.6			G3/500
BL	(0°-30°)	518.7	1.9	B2/1000		
BM	(30°-60°)	860.7	3.1	B1/1000		
BH	(60°-80°)	207.9	0.8	B1/500		G1/500
BVH	(80°-90°)	14.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4089.4	4089.4	4089.4	4089.4	4089.4	4089.4	4089.4	4089.4	4089.4	4089.4	4089.4
2.5°	4490.3	4465.8	4451.1	4431.6	4407.2	4386.0	4377.8	4317.6	4260.5	4182.2	4092.7
5°	4573.4	4565.1	4539.1	4513.1	4483.7	4451.1	4433.2	4361.5	4280.1	4166.0	4009.7
7.5°	4581.4	4571.7	4539.1	4503.4	4462.6	4423.4	4392.5	4320.8	4245.8	4130.1	3939.5
10°	4568.5	4557.0	4532.6	4493.5	4442.9	4405.6	4374.6	4306.1	4242.6	4138.3	3926.5
12.5°	4553.8	4542.4	4531.1	4511.5	4467.5	4441.4	4415.3	4350.1	4293.1	4205.1	3973.8
15°	4568.5	4562.0	4575.0	4566.9	4542.4	4519.6	4493.5	4434.8	4382.7	4309.3	4060.1
17.5°	4630.4	4630.4	4671.0	4675.9	4653.2	4620.6	4583.2	4524.5	4480.4	4418.6	4162.7
20°	4775.4	4770.4	4822.6	4832.4	4776.9	4726.5	4671.0	4599.4	4565.1	4526.1	4263.7
22.5°	5024.7	5001.9	5032.8	5023.1	4913.9	4835.7	4767.2	4679.2	4661.3	4643.3	4376.3
25°	5348.9	5335.8	5357.0	5261.0	5068.6	4962.7	4881.3	4781.9	4781.9	4799.9	4503.4
27.5°	5819.7	5770.8	5699.1	5529.7	5241.3	5106.1	5018.1	4912.2	4939.9	5006.8	4671.0
30°	6302.0	6248.3	6083.7	5823.1	5451.5	5309.8	5207.1	5096.4	5161.5	5283.7	4895.9
32.5°	6777.7	6717.4	6484.4	6155.4	5752.9	5611.3	5511.8	5389.7	5498.7	5704.1	5225.0
35°	7238.8	7185.1	6916.2	6528.4	6153.7	6036.4	5945.3	5839.3	5979.4	6266.1	5689.3
37.5°	7757.0	7698.3	7370.9	6950.5	6640.9	6556.2	6489.4	6383.4	6627.9	7048.2	6336.3
40°	8393.9	8294.6	7853.1	7434.4	7204.5	7163.9	7118.3	7103.5	7483.2	8064.9	7198.1
42.5°	9123.8	8961.0	8358.1	7944.3	7823.7	7853.1	7841.7	7906.8	8553.7	9329.2	8247.2
45°	9853.8	9643.7	8920.2	8488.4	8504.8	8607.4	8670.9	8931.6	9894.6	10779.2	9376.4
47.5°	10472.9	10266.0	9459.5	9076.7	9272.1	9474.2	9646.9	10140.5	11272.9	12206.4	10254.6
50°	11002.4	10806.9	10031.4	9723.4	10163.3	10489.1	10769.4	11501.0	12755.6	13293.2	10870.4
52.5°	11435.9	11305.4	10624.4	10464.7	11181.7	11659.0	12069.5	12946.2	14068.6	14176.2	11349.5
55°	11857.7	11764.9	11261.4	11346.2	12377.6	13027.6	13547.2	14479.3	15199.4	14912.7	11808.8
57.5°	12343.3	12258.6	11988.2	12463.9	13949.8	14767.6	15334.6	15838.0	16194.9	15665.4	12242.3
60°	12838.5	12789.7	12796.3	13705.4	15755.0	16540.3	16853.1	16983.4	17172.4	16374.0	12266.7
62.5°	13311.1	13404.0	13720.1	15086.9	17483.6	18086.5	18244.4	18373.3	18151.6	16486.6	11333.1
65°	14111.0	14262.6	15017.0	16936.1	19385.0	20030.1	20193.1	19751.6	18306.4	15033.2	9218.3
67.5°	14502.1	14779.0	16124.8	18660.0	21229.4	21946.2	21885.9	19841.1	16427.8	11463.5	5915.9
69°	14420.6	14715.6	16380.7	19187.8	21841.8	22492.0	22109.2	18744.7	13995.4	8304.3	3631.6
70°	14098.0	14396.1	16248.6	19168.3	21920.1	22435.0	21695.2	17390.7	11833.4	6072.3	2271.2
72.5°	11773.0	12030.6	14425.5	17325.6	20193.1	19774.4	18150.0	12048.3	5766.0	1653.7	511.6
75°	7246.9	7390.4	10350.7	13052.1	15251.6	14176.2	12092.4	5994.1	1718.8	467.6	283.4
77.5°	3828.8	3894.0	5666.6	7693.4	9668.1	7999.6	6197.8	2338.0	791.9	293.2	205.4
80°	2263.0	2311.9	3051.6	3517.6	4183.9	3494.8	2478.2	1435.4	567.0	184.2	182.4
82.5°	1295.3	1326.2	2212.5	1955.2	1648.7	1407.6	1233.4	1360.5	340.5	123.8	189.1
85°	475.7	482.3	1244.7	1487.6	980.8	583.3	612.6	1127.5	91.3	78.2	148.3
87.5°	221.6	216.8	640.3	910.7	573.5	369.8	477.4	247.7	35.8	50.6	40.8
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°	4089.4	4089.4	4089.4	4089.4	4089.4	4089.4	4089.4	4089.4	4089.4	4089.4	4089.4
2.5°	4040.5	3980.3	3871.2	3758.7	3644.7	3556.7	3470.3	3401.9	3379.1	3336.8	3340.0
5°	3916.8	3805.9	3577.9	3346.5	3105.4	2906.6	2719.2	2567.7	2494.5	2419.4	2419.4
7.5°	3809.3	3647.8	3291.1	2914.7	2525.3	2197.9	1903.0	1681.4	1559.2	1461.5	1459.8
10°	3768.5	3550.1	3051.6	2512.3	1969.8	1523.3	1173.0	948.3	832.5	757.6	754.3
12.5°	3786.4	3516.0	2867.5	2140.8	1459.8	979.2	679.4	534.4	485.5	462.6	462.6
15°	3838.5	3506.2	2683.3	1777.6	1031.3	612.6	451.3	412.2	409.0	409.0	409.0
17.5°	3902.1	3509.4	2494.5	1424.0	702.2	438.3	389.3	384.6	387.8	387.8	387.8
20°	3967.3	3511.0	2290.8	1096.6	495.2	381.2	366.6	364.9	368.2	368.2	369.8
22.5°	4047.1	3519.2	2087.1	819.6	409.0	360.1	348.6	348.6	350.2	350.2	348.6
25°	4138.3	3535.5	1875.3	607.8	373.1	345.4	335.6	334.0	335.6	334.0	332.4
27.5°	4252.3	3558.2	1639.0	475.7	356.7	330.8	322.6	322.6	321.0	319.3	317.7
30°	4395.8	3584.3	1373.5	404.1	340.5	317.7	309.6	307.8	306.3	303.1	303.1
32.5°	4614.1	3641.4	1111.2	366.6	322.6	299.8	293.2	293.2	290.1	286.7	285.1
35°	4949.8	3753.7	876.6	343.8	303.1	280.2	272.0	272.0	268.9	267.2	265.5
37.5°	5414.1	3925.0	681.0	322.6	283.4	259.0	250.8	249.3	246.0	242.7	241.1
40°	6031.5	4136.8	536.0	303.1	263.9	238.0	231.4	228.1	221.6	216.8	216.8
42.5°	6807.0	4377.8	435.0	281.9	241.1	218.3	213.4	208.5	197.2	192.2	190.6
45°	7618.4	4594.6	368.2	257.5	218.3	198.7	195.6	187.3	172.7	167.9	167.9
47.5°	8203.3	4645.0	324.2	234.5	197.2	177.5	176.0	161.2	148.3	144.9	143.4
50°	8568.4	4545.7	288.4	211.8	177.5	158.0	153.2	135.3	127.1	123.8	122.2
52.5°	8814.3	4368.1	259.0	192.2	159.7	140.1	128.6	115.7	109.1	105.9	105.9
55°	9011.4	4117.1	229.7	174.4	144.9	125.5	109.1	99.4	92.9	89.7	89.7
57.5°	9066.9	3776.7	200.4	159.7	130.3	110.9	92.9	86.3	78.2	76.5	76.5
60°	8664.4	3162.5	177.5	141.8	117.3	96.1	81.4	73.3	65.1	63.5	62.0
62.5°	7603.8	2447.2	156.5	125.5	102.6	83.2	70.1	60.2	53.8	53.8	53.8
65°	5800.1	1640.7	136.8	109.1	89.7	70.1	60.2	48.9	45.6	45.6	47.3
67.5°	3471.9	892.8	117.3	92.9	76.5	58.7	50.6	42.4	40.8	42.4	42.4
69°	2034.9	524.6	105.9	83.2	66.8	52.1	43.9	37.5	40.8	42.4	42.4
70°	1256.2	353.6	97.7	75.0	60.2	47.3	40.8	35.8	39.0	40.8	40.8
72.5°	350.2	182.4	78.2	58.7	48.9	39.0	32.6	32.6	37.5	39.0	39.0
75°	228.1	135.3	60.2	43.9	37.5	30.9	27.7	30.9	35.8	37.5	37.5
77.5°	189.1	110.9	48.9	35.8	30.9	29.4	26.1	27.7	32.6	34.2	34.2
80°	172.7	78.2	39.0	32.6	27.7	26.1	24.4	22.7	29.4	30.9	30.9
82.5°	164.6	62.0	34.2	29.4	26.1	22.7	21.2	22.7	26.1	27.7	29.4
85°	102.6	40.8	30.9	27.7	22.7	21.2	21.2	21.2	24.4	26.1	26.1
87.5°	37.5	32.6	27.7	22.7	19.6	19.6	19.6	19.6	21.2	24.4	24.4
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)