

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: P191196

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191196
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-08-LED-E1-SL4-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 26095.5 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

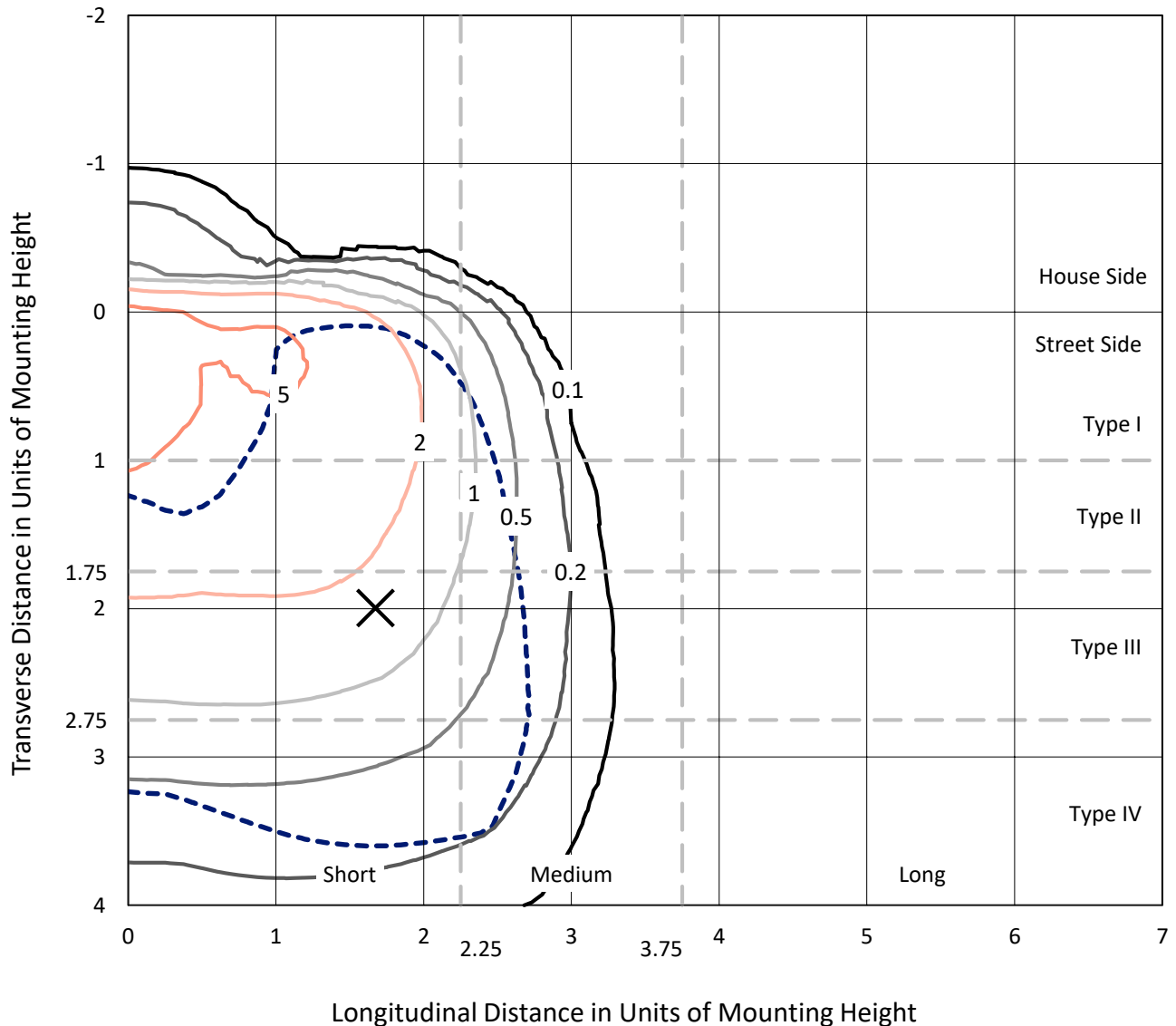
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

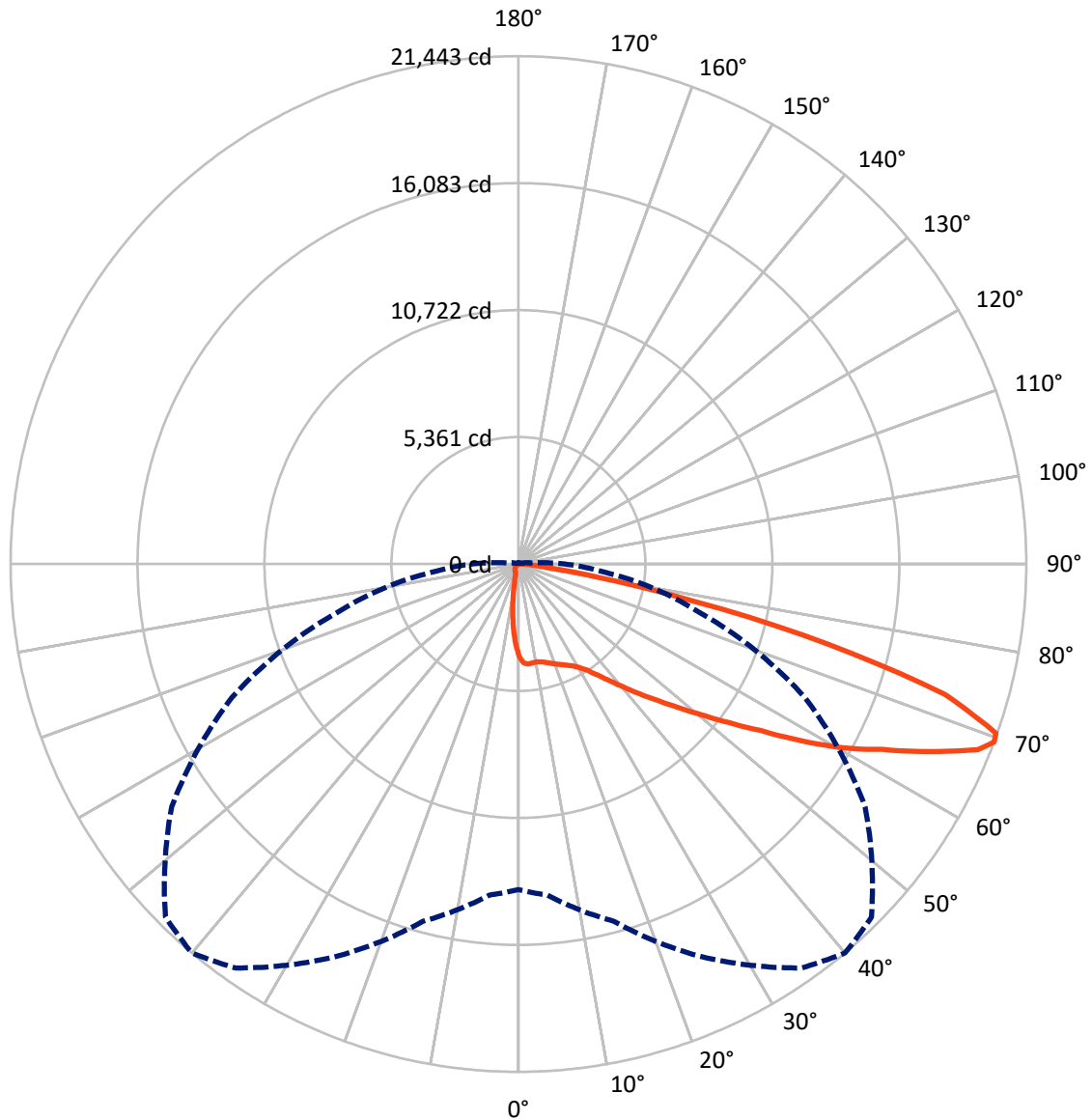
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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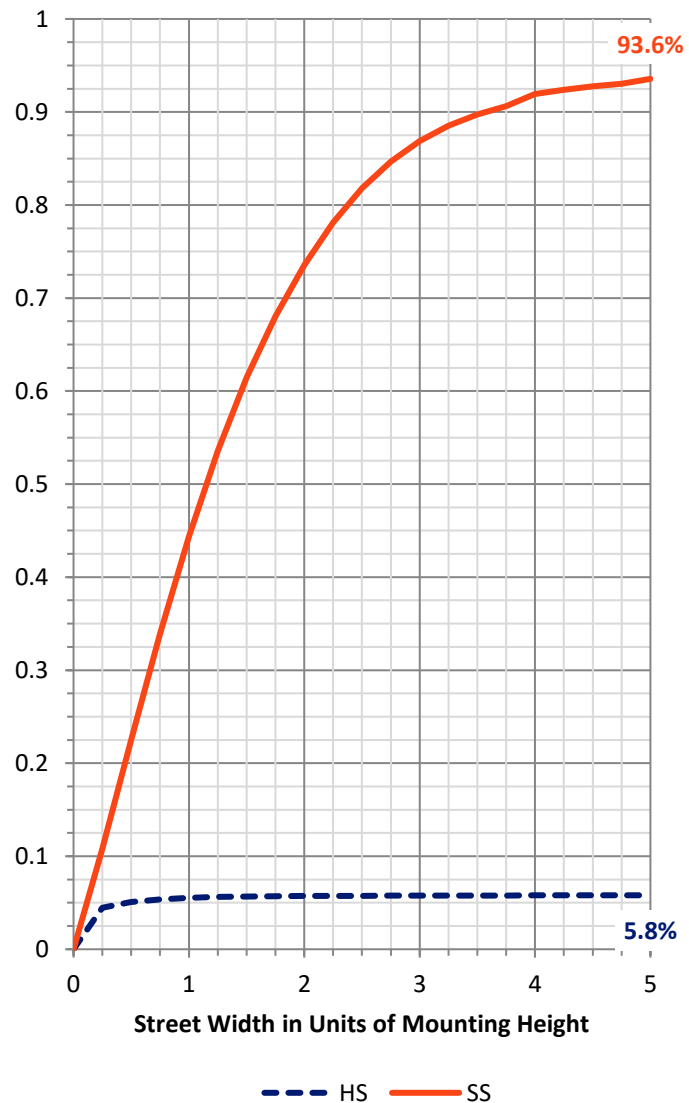
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1526.7	0.0	1526.7
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	24568.8	0.0	24568.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	26095.5	0.0	26095.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.1	1.2
10°-20°	777.4	3.0
20°-30°	1309.4	5.0
30°-40°	2143.5	8.2
40°-50°	3711.4	14.2
50°-60°	5845.8	22.4
60°-70°	7634.4	29.3
70°-80°	3932.1	15.1
80°-90°	425.3	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°	26095.5	100.0
0°-180°	26095.5	100.0



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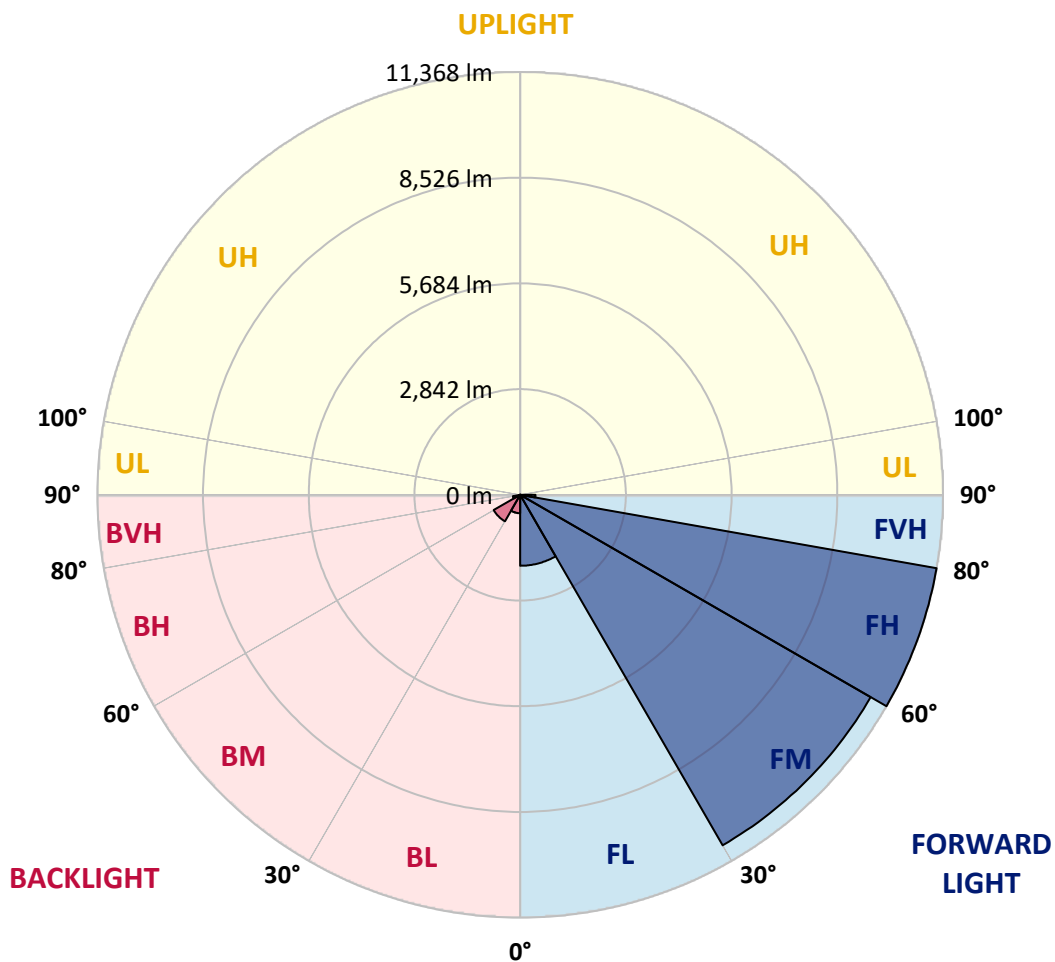
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1908.3	7.3			
FM	(30°-60°)	10880.2	41.7			
FH	(60°-80°)	11368.3	43.6			G4/12000
FVH	(80°-90°)	412.0	1.6			G3/500
BL	(0°-30°)	494.6	1.9	B1/500		
BM	(30°-60°)	820.6	3.1	B1/1000		
BH	(60°-80°)	198.2	0.8	B1/500		G1/500
BVH	(80°-90°)	13.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3898.8	3898.8	3898.8	3898.8	3898.8	3898.8	3898.8	3898.8	3898.8	3898.8	3898.8
2.5°	4280.9	4257.6	4243.6	4225.0	4201.7	4181.5	4173.7	4116.3	4061.9	3987.4	3901.9
5°	4360.1	4352.3	4327.5	4302.6	4274.7	4243.6	4226.5	4158.2	4080.6	3971.8	3822.7
7.5°	4367.9	4358.6	4327.5	4293.3	4254.6	4217.2	4187.8	4119.3	4047.9	3937.6	3755.9
10°	4355.5	4344.6	4321.3	4284.0	4235.8	4200.1	4170.7	4105.4	4044.8	3945.4	3743.5
12.5°	4341.5	4330.7	4319.7	4301.1	4259.2	4234.3	4209.4	4147.3	4092.9	4009.0	3788.5
15°	4355.5	4349.3	4361.7	4353.9	4330.7	4308.9	4284.0	4228.1	4178.3	4108.5	3870.8
17.5°	4414.5	4414.5	4453.3	4458.0	4436.2	4405.1	4369.4	4313.6	4271.6	4212.6	3968.7
20°	4552.7	4548.0	4597.8	4607.1	4554.3	4506.1	4453.3	4385.0	4352.3	4315.1	4065.0
22.5°	4790.4	4768.7	4798.2	4788.8	4684.8	4610.2	4545.0	4461.1	4444.0	4426.9	4172.2
25°	5099.5	5087.0	5107.3	5015.6	4832.3	4731.4	4653.7	4559.0	4559.0	4576.1	4293.3
27.5°	5548.4	5501.8	5433.5	5271.9	4997.0	4868.0	4784.1	4683.2	4709.7	4773.3	4453.3
30°	6008.2	5956.9	5800.0	5551.6	5197.4	5062.2	4964.4	4858.7	4920.9	5037.4	4667.7
32.5°	6461.8	6404.3	6182.2	5868.4	5484.8	5349.6	5254.8	5138.4	5242.4	5438.1	4981.5
35°	6901.3	6850.1	6593.7	6224.1	5866.8	5755.0	5668.0	5567.0	5700.6	5974.0	5424.1
37.5°	7395.3	7339.4	7027.2	6626.4	6331.2	6250.5	6186.8	6085.8	6318.9	6719.6	6040.8
40°	8002.6	7907.9	7487.0	7087.7	6868.7	6829.9	6786.4	6772.4	7134.4	7688.9	6862.5
42.5°	8698.6	8543.2	7968.5	7573.9	7458.9	7487.0	7476.0	7538.2	8154.9	8894.3	7862.8
45°	9394.4	9194.0	8504.3	8092.8	8108.2	8206.1	8266.7	8515.2	9433.2	10276.7	8939.3
47.5°	9984.6	9787.4	9018.5	8653.4	8839.8	9032.5	9197.1	9667.8	10747.3	11637.4	9776.5
50°	10489.4	10303.1	9563.7	9270.1	9689.5	10000.2	10267.4	10964.8	12160.8	12673.4	10363.6
52.5°	10902.6	10778.4	10129.2	9976.8	10660.4	11115.5	11506.9	12342.6	13412.8	13515.3	10820.4
55°	11304.9	11216.5	10736.5	10817.2	11800.5	12420.3	12915.8	13804.2	14490.8	14217.4	11258.4
57.5°	11767.8	11687.1	11429.2	11882.8	13299.4	14079.2	14619.7	15099.7	15439.9	14935.1	11671.6
60°	12240.0	12193.5	12199.7	13066.5	15020.5	15769.2	16067.4	16191.7	16371.8	15610.7	11694.9
62.5°	12690.5	12779.0	13080.4	14383.6	16668.6	17243.3	17393.9	17516.6	17305.4	15717.9	10804.8
65°	13453.1	13597.7	14316.8	16146.7	18481.2	19096.3	19251.6	18830.7	17453.0	14332.4	8788.6
67.5°	13826.0	14090.0	15373.1	17790.0	20239.6	20923.0	20865.5	18916.2	15662.0	10929.1	5640.0
69°	13748.4	14029.5	15617.0	18293.3	20823.6	21443.4	21078.4	17870.7	13342.9	7917.2	3462.3
70°	13440.8	13725.0	15491.2	18274.6	20898.2	21389.0	20683.9	16580.0	11281.6	5789.2	2165.3
72.5°	11224.2	11469.6	13753.0	16517.9	19251.6	18852.5	17303.8	11486.7	5497.1	1576.6	487.7
75°	6909.1	7045.8	9868.2	12443.6	14540.5	13515.3	11528.7	5714.6	1638.8	445.8	270.3
77.5°	3650.3	3712.4	5402.4	7334.8	9217.3	7626.7	5908.8	2229.0	754.9	279.6	195.7
80°	2157.5	2204.2	2909.4	3353.5	3988.9	3331.9	2362.6	1368.5	540.5	175.5	174.0
82.5°	1234.9	1264.4	2109.4	1863.9	1572.0	1342.0	1175.9	1297.0	324.7	118.0	180.1
85°	453.6	459.8	1186.7	1418.2	935.1	556.1	584.0	1074.9	87.0	74.6	141.4
87.5°	211.2	206.6	610.5	868.3	546.8	352.6	455.1	236.1	34.2	48.2	38.9
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°	3898.8	3898.8	3898.8	3898.8	3898.8	3898.8	3898.8	3898.8	3898.8	3898.8	3898.8
2.5°	3852.2	3794.7	3690.7	3583.5	3474.8	3390.9	3308.5	3243.3	3221.6	3181.2	3184.2
5°	3734.2	3628.5	3411.0	3190.5	2960.6	2771.1	2592.5	2448.0	2378.2	2306.7	2306.7
7.5°	3631.7	3477.8	3137.7	2778.8	2407.6	2095.4	1814.3	1603.0	1486.6	1393.4	1391.7
10°	3592.8	3384.6	2909.4	2395.2	1877.9	1452.4	1118.4	904.0	793.7	722.3	719.1
12.5°	3609.9	3352.0	2733.8	2041.1	1391.7	933.5	647.7	509.5	462.9	441.1	441.1
15°	3659.6	3342.7	2558.3	1694.6	983.3	584.0	430.3	393.0	389.8	389.8	389.8
17.5°	3720.2	3345.9	2378.2	1357.6	669.5	417.9	371.2	366.6	369.7	369.7	369.7
20°	3782.3	3347.4	2183.9	1045.4	472.2	363.5	349.5	347.9	351.1	351.1	352.6
22.5°	3858.4	3355.2	1989.7	781.3	389.8	343.3	332.4	332.4	334.0	334.0	332.4
25°	3945.4	3370.7	1787.8	579.4	355.7	329.3	320.0	318.4	320.0	318.4	316.9
27.5°	4054.2	3392.4	1562.7	453.6	340.1	315.3	307.6	307.6	306.0	304.4	302.9
30°	4190.8	3417.3	1309.5	385.2	324.7	302.9	295.1	293.6	292.1	288.9	288.9
32.5°	4399.0	3471.6	1059.4	349.5	307.6	285.8	279.6	279.6	276.5	273.3	271.8
35°	4719.0	3578.8	835.6	327.8	288.9	267.2	259.4	259.4	256.2	254.7	253.2
37.5°	5161.6	3742.0	649.3	307.6	270.3	246.9	239.2	237.6	234.6	231.4	229.9
40°	5750.3	3943.9	511.1	288.9	251.6	226.8	220.5	217.5	211.2	206.6	206.6
42.5°	6489.7	4173.7	414.7	268.7	229.9	208.2	203.5	198.9	187.9	183.3	181.8
45°	7263.3	4380.3	351.1	245.4	208.2	189.6	186.4	178.6	164.7	160.0	160.0
47.5°	7820.9	4428.5	309.1	223.7	187.9	169.3	167.8	153.7	141.4	138.2	136.7
50°	8168.9	4333.7	275.0	201.9	169.3	150.7	146.0	128.9	121.1	118.0	116.5
52.5°	8403.3	4164.4	246.9	183.3	152.2	133.6	122.8	110.3	104.0	101.0	101.0
55°	8591.4	3925.2	219.0	166.2	138.2	119.6	104.0	94.7	88.6	85.4	85.4
57.5°	8644.1	3600.6	191.1	152.2	124.3	105.7	88.6	82.3	74.6	73.0	73.0
60°	8260.5	3014.9	169.3	135.1	111.8	91.7	77.6	69.9	62.1	60.6	59.0
62.5°	7249.2	2333.0	149.1	119.6	97.9	79.2	66.8	57.5	51.2	51.2	51.2
65°	5529.8	1564.2	130.5	104.0	85.4	66.8	57.5	46.6	43.5	43.5	45.0
67.5°	3310.1	851.2	111.8	88.6	73.0	56.0	48.2	40.4	38.9	40.4	40.4
69°	1940.1	500.1	101.0	79.2	63.7	49.7	41.9	35.7	38.9	40.4	40.4
70°	1197.6	337.1	93.2	71.4	57.5	45.0	38.9	34.2	37.2	38.9	38.9
72.5°	334.0	174.0	74.6	56.0	46.6	37.2	31.1	31.1	35.7	37.2	37.2
75°	217.5	128.9	57.5	41.9	35.7	29.6	26.4	29.6	34.2	35.7	35.7
77.5°	180.1	105.7	46.6	34.2	29.6	27.9	24.9	26.4	31.1	32.6	32.6
80°	164.7	74.6	37.2	31.1	26.4	24.9	23.3	21.8	27.9	29.6	29.6
82.5°	156.9	59.0	32.6	27.9	24.9	21.8	20.2	21.8	24.9	26.4	27.9
85°	97.9	38.9	29.6	26.4	21.8	20.2	20.2	20.2	23.3	24.9	24.9
87.5°	35.7	31.1	26.4	21.8	18.6	18.6	18.6	18.6	20.2	23.3	23.3
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)