

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: P269408

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269408
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-06-LED-E1-SL4-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA 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: 25103.3 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 333
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

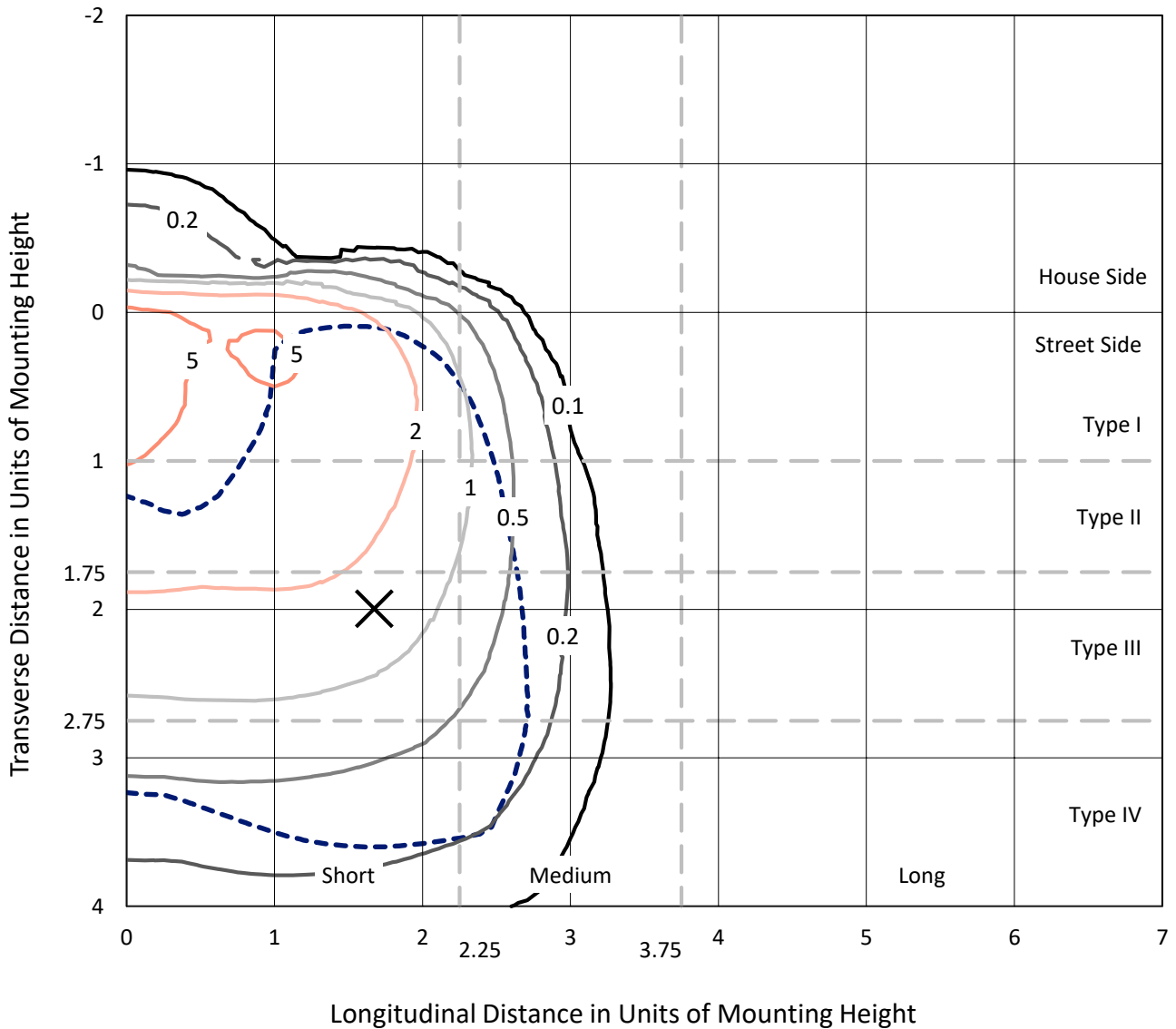


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

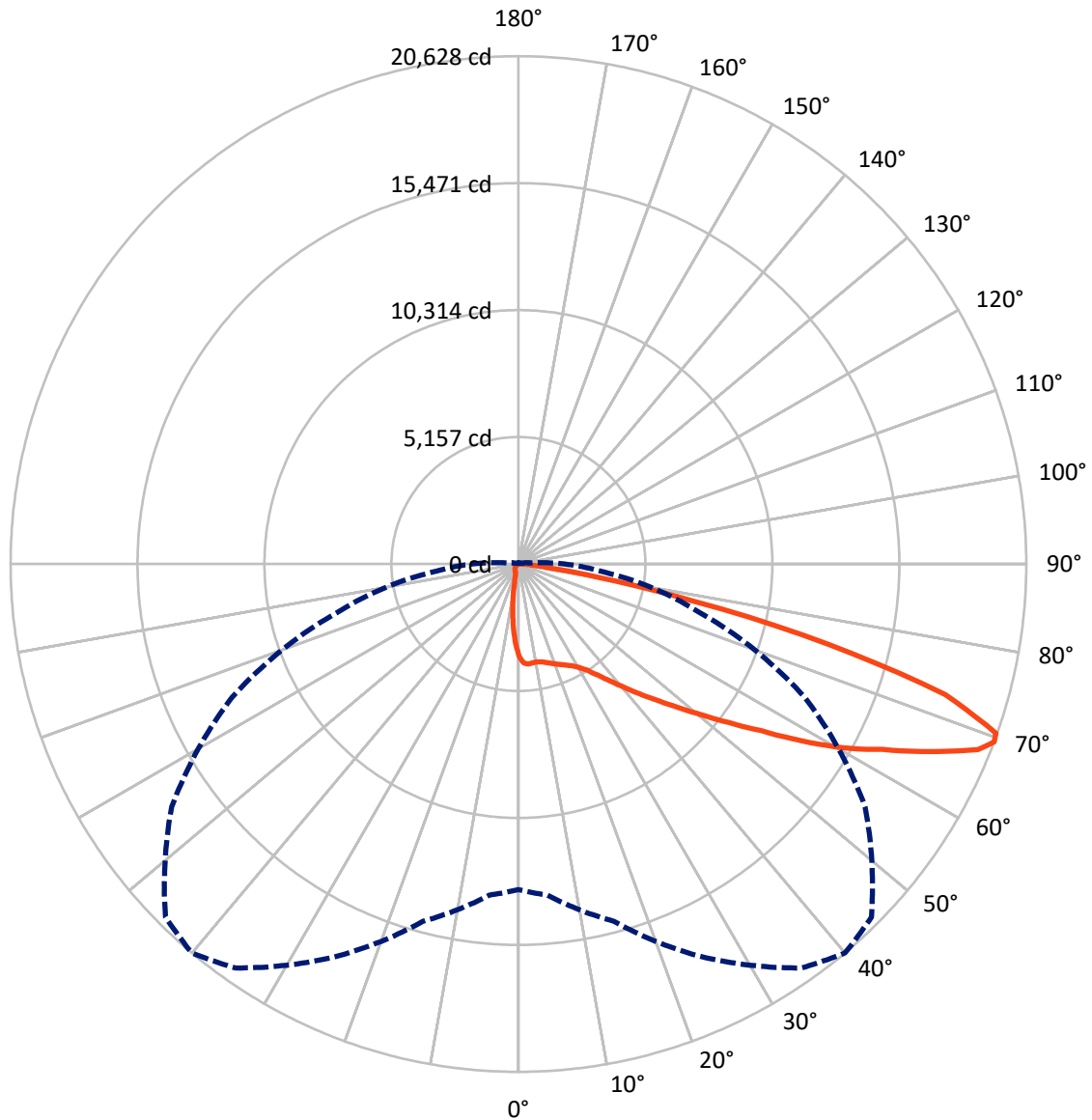


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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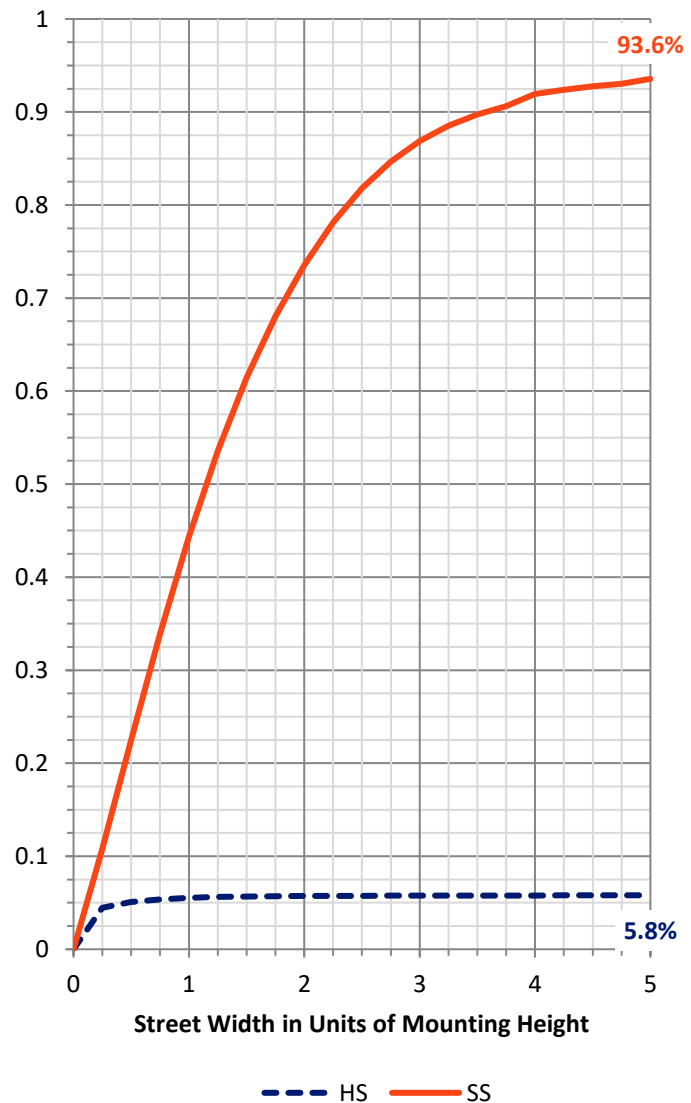
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1468.7	0.0	1468.7
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	23634.7	0.0	23634.7
	% Fixture	94.1	0.0	94.1
Total	Lumens	25103.3	0.0	25103.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.1	1.2
10°-20°	747.8	3.0
20°-30°	1259.6	5.0
30°-40°	2062.0	8.2
40°-50°	3570.3	14.2
50°-60°	5623.6	22.4
60°-70°	7344.2	29.3
70°-80°	3782.6	15.1
80°-90°	409.2	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°	25103.3	100.0
0°-180°	25103.3	100.0

Coefficient of Utilization



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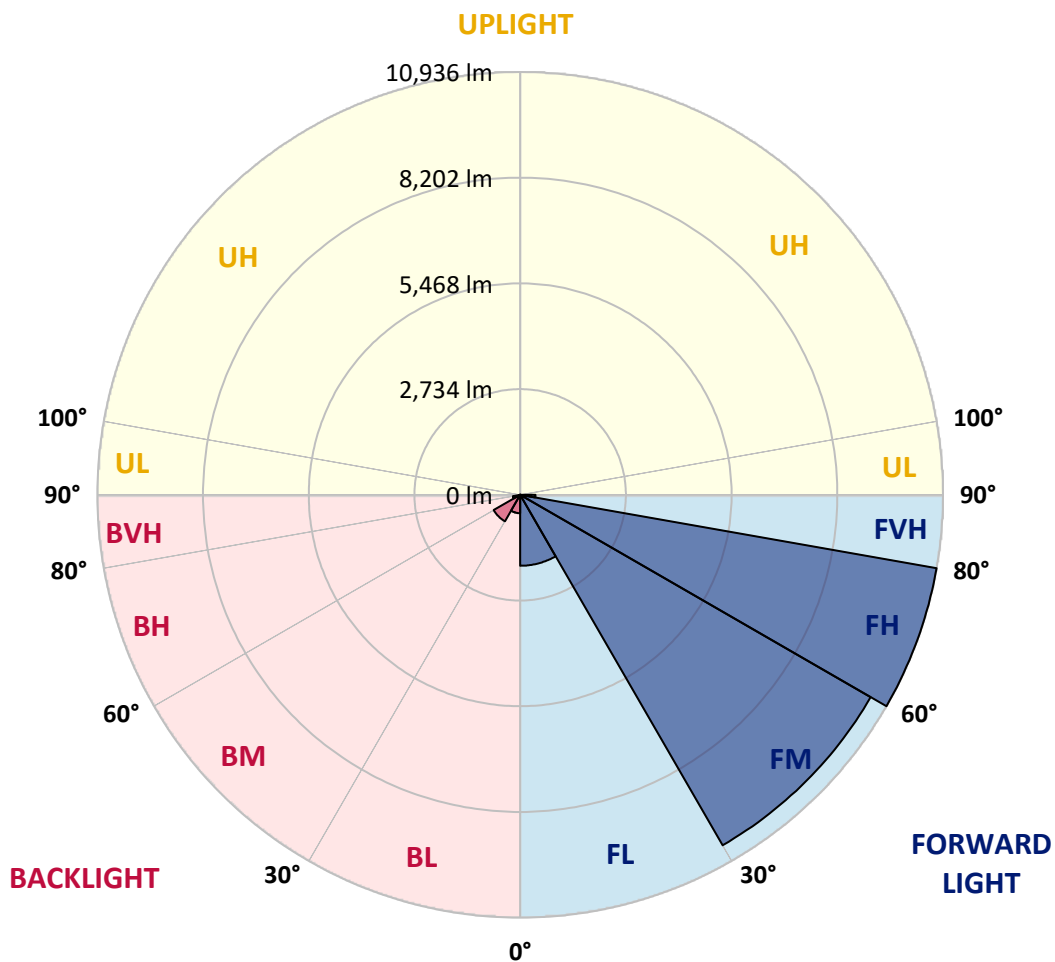
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1835.8	7.3			
FM	(30°-60°)	10466.5	41.7			
FH	(60°-80°)	10936.1	43.6			G4/12000
FVH	(80°-90°)	396.3	1.6			G3/500
BL	(0°-30°)	475.8	1.9	B1/500		
BM	(30°-60°)	789.4	3.1	B1/1000		
BH	(60°-80°)	190.7	0.8	B1/500		G1/500
BVH	(80°-90°)	12.9	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°	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6
2.5°	4118.2	4095.7	4082.3	4064.3	4042.0	4022.5	4015.1	3959.8	3907.4	3835.8	3753.6
5°	4194.4	4186.9	4162.9	4139.1	4112.3	4082.3	4065.9	4000.2	3925.5	3820.9	3677.3
7.5°	4201.8	4192.8	4162.9	4130.0	4092.8	4056.8	4028.4	3962.8	3894.1	3788.0	3613.2
10°	4189.9	4179.5	4156.9	4121.2	4074.8	4040.4	4012.1	3949.3	3891.0	3795.3	3601.1
12.5°	4176.4	4166.0	4155.5	4137.6	4097.2	4073.4	4049.4	3989.6	3937.4	3856.7	3644.5
15°	4189.9	4183.9	4195.9	4188.3	4166.0	4145.0	4121.2	4067.3	4019.6	3952.4	3723.7
17.5°	4246.6	4246.6	4283.9	4288.5	4267.6	4237.8	4203.3	4149.5	4109.1	4052.4	3817.7
20°	4379.6	4375.1	4423.0	4432.0	4381.2	4334.9	4283.9	4218.4	4186.9	4151.1	3910.4
22.5°	4608.2	4587.4	4615.8	4606.8	4506.6	4434.9	4372.2	4291.6	4275.0	4258.7	4013.5
25°	4905.6	4893.6	4913.1	4824.9	4648.5	4551.5	4476.8	4385.6	4385.6	4402.1	4130.0
27.5°	5337.5	5292.6	5226.9	5071.6	4807.0	4683.0	4602.2	4505.2	4530.6	4591.9	4283.9
30°	5779.8	5730.5	5579.6	5340.5	4999.7	4869.7	4775.6	4674.1	4733.8	4845.8	4490.2
32.5°	6216.1	6160.8	5947.0	5645.3	5276.3	5146.2	5055.0	4943.0	5043.1	5231.4	4792.1
35°	6639.0	6589.6	6343.1	5987.5	5643.8	5536.3	5452.5	5355.3	5484.0	5746.8	5218.0
37.5°	7114.1	7060.3	6759.9	6374.5	6090.6	6012.9	5951.6	5854.4	6078.7	6464.2	5811.1
40°	7698.4	7607.2	7202.3	6818.2	6607.6	6570.3	6528.4	6515.0	6863.1	7396.6	6601.6
42.5°	8367.8	8218.4	7665.4	7286.0	7175.4	7202.3	7191.8	7251.6	7844.8	8556.0	7563.9
45°	9037.2	8844.4	8181.0	7785.0	7800.1	7894.1	7952.3	8191.5	9074.6	9885.9	8599.5
47.5°	9605.0	9415.2	8675.7	8324.5	8503.7	8689.0	8847.4	9300.2	10338.8	11194.9	9404.9
50°	10090.8	9911.4	9200.1	8917.7	9321.2	9619.9	9877.0	10547.9	11698.4	12191.5	9969.6
52.5°	10488.2	10368.5	9744.0	9597.6	10255.1	10692.9	11069.5	11873.3	12902.9	13001.4	10408.9
55°	10875.2	10790.0	10328.3	10406.0	11351.8	11948.0	12424.6	13279.5	13939.9	13676.9	10830.3
57.5°	11320.4	11242.7	10994.6	11431.0	12793.8	13543.8	14063.9	14525.7	14852.8	14367.2	11227.7
60°	11774.8	11729.9	11735.8	12569.7	14449.3	15169.7	15456.5	15576.2	15749.4	15017.2	11250.3
62.5°	12208.1	12293.1	12583.1	13836.8	16034.8	16587.7	16732.5	16850.6	16647.5	15120.4	10394.0
65°	12941.7	13080.7	13772.5	15532.8	17778.5	18370.2	18519.7	18114.9	16789.4	13787.5	8454.5
67.5°	13300.3	13554.3	14788.5	17113.7	19470.0	20127.6	20072.3	18197.0	15066.6	10513.6	5425.7
69°	13225.7	13496.0	15023.3	17597.7	20031.9	20628.0	20277.0	17191.4	12835.6	7616.2	3330.6
70°	12929.8	13203.2	14902.2	17579.9	20103.7	20575.9	19897.5	15949.6	10852.8	5569.1	2083.0
72.5°	10797.4	11033.5	13230.1	15889.8	18519.7	18135.7	16646.0	11050.1	5288.1	1516.7	469.2
75°	6646.4	6777.9	9493.0	11970.5	13987.7	13001.4	11090.4	5497.4	1576.4	428.9	260.0
77.5°	3511.5	3571.2	5197.1	7055.8	8866.9	7336.7	5684.1	2144.3	726.2	269.0	188.3
80°	2075.5	2120.3	2798.7	3226.2	3837.2	3205.2	2272.7	1316.5	519.9	168.8	167.4
82.5°	1187.9	1216.3	2029.2	1793.0	1512.1	1291.0	1131.1	1247.7	312.3	113.5	173.4
85°	436.3	442.2	1141.6	1364.3	899.6	534.9	561.8	1033.9	83.7	71.8	136.0
87.5°	203.2	198.7	587.2	835.2	526.0	339.2	437.8	227.1	32.9	46.4	37.4
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°	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6
2.5°	3705.8	3650.4	3550.3	3447.2	3342.7	3261.9	3182.8	3120.1	3099.1	3060.3	3063.2
5°	3592.2	3490.5	3281.4	3069.1	2848.0	2665.7	2494.0	2354.9	2287.8	2219.0	2219.0
7.5°	3493.6	3345.6	3018.3	2673.3	2316.1	2015.7	1745.2	1542.1	1430.0	1340.4	1338.8
10°	3456.1	3255.9	2798.7	2304.2	1806.5	1397.1	1075.9	869.6	763.6	694.7	691.9
12.5°	3472.7	3224.6	2629.9	1963.4	1338.8	898.0	623.2	490.1	445.3	424.4	424.4
15°	3520.5	3215.7	2461.0	1630.2	945.8	561.8	413.8	378.0	375.0	375.0	375.0
17.5°	3578.8	3218.5	2287.8	1306.0	644.1	401.9	357.2	352.7	355.5	355.5	355.5
20°	3638.6	3220.2	2101.0	1005.7	454.3	349.7	336.1	334.7	337.8	337.8	339.2
22.5°	3711.7	3227.6	1914.2	751.6	375.0	330.2	319.7	319.7	321.2	321.2	319.7
25°	3795.3	3242.5	1719.8	557.4	342.2	316.8	307.8	306.3	307.8	306.3	304.9
27.5°	3900.0	3263.5	1503.3	436.3	327.3	303.4	295.8	295.8	294.4	292.8	291.4
30°	4031.6	3287.3	1259.7	370.6	312.3	291.4	284.0	282.3	280.9	277.9	277.9
32.5°	4231.7	3339.7	1019.0	336.1	295.8	274.9	269.0	269.0	266.0	263.1	261.4
35°	4539.6	3442.8	804.0	315.2	277.9	257.1	249.5	249.5	246.6	245.1	243.6
37.5°	4965.4	3599.7	624.6	295.8	260.0	237.6	230.1	228.6	225.7	222.6	221.2
40°	5531.8	3793.9	491.6	277.9	242.1	218.2	212.2	209.1	203.2	198.7	198.7
42.5°	6243.0	4015.1	398.9	258.5	221.2	200.2	195.7	191.2	180.7	176.2	174.8
45°	6987.0	4213.8	337.8	236.1	200.2	182.3	179.3	171.8	158.5	153.9	153.9
47.5°	7523.6	4260.1	297.3	215.1	180.7	162.9	161.3	148.0	136.0	132.9	131.5
50°	7858.3	4168.9	264.6	194.3	162.9	144.9	140.4	124.1	116.6	113.5	112.1
52.5°	8083.8	4006.1	237.6	176.2	146.5	128.5	118.0	106.1	100.2	97.1	97.1
55°	8264.6	3775.9	210.7	159.9	132.9	115.1	100.2	91.2	85.2	82.1	82.1
57.5°	8315.5	3463.7	183.9	146.5	119.6	101.6	85.2	79.2	71.8	70.2	70.2
60°	7946.4	2900.4	162.9	130.1	107.5	88.2	74.6	67.3	59.7	58.3	56.9
62.5°	6973.6	2244.3	143.5	115.1	94.1	76.1	64.3	55.2	49.2	49.2	49.2
65°	5319.6	1504.8	125.6	100.2	82.1	64.3	55.2	44.8	41.9	41.9	43.4
67.5°	3184.2	818.9	107.5	85.2	70.2	53.8	46.4	38.8	37.4	38.8	38.8
69°	1866.3	481.1	97.1	76.1	61.3	47.8	40.3	34.3	37.4	38.8	38.8
70°	1152.0	324.3	89.7	68.7	55.2	43.4	37.4	32.9	35.8	37.4	37.4
72.5°	321.2	167.4	71.8	53.8	44.8	35.8	29.9	29.9	34.3	35.8	35.8
75°	209.1	124.1	55.2	40.3	34.3	28.3	25.4	28.3	32.9	34.3	34.3
77.5°	173.4	101.6	44.8	32.9	28.3	26.9	24.0	25.4	29.9	31.4	31.4
80°	158.5	71.8	35.8	29.9	25.4	24.0	22.4	20.9	26.9	28.3	28.3
82.5°	150.9	56.9	31.4	26.9	24.0	20.9	19.5	20.9	24.0	25.4	26.9
85°	94.1	37.4	28.3	25.4	20.9	19.5	19.5	19.5	22.4	24.0	24.0
87.5°	34.3	29.9	25.4	20.9	18.0	18.0	18.0	18.0	19.5	22.4	22.4
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)