

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: P193745

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193745
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-07-LED-E1-SL4-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 22528 lumens
Efficiency: N/A
Efficacy: 76.4 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): 295
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

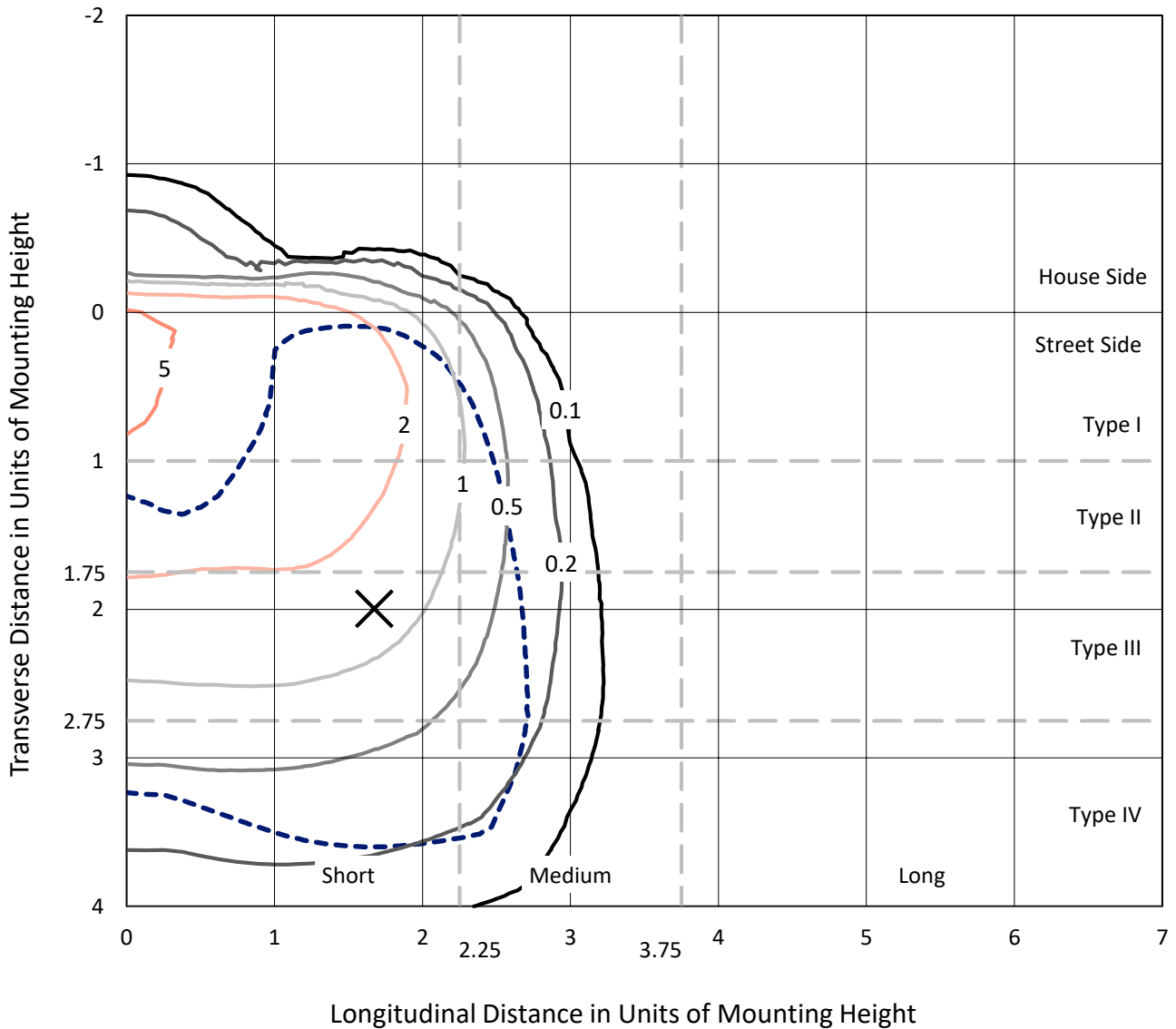


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

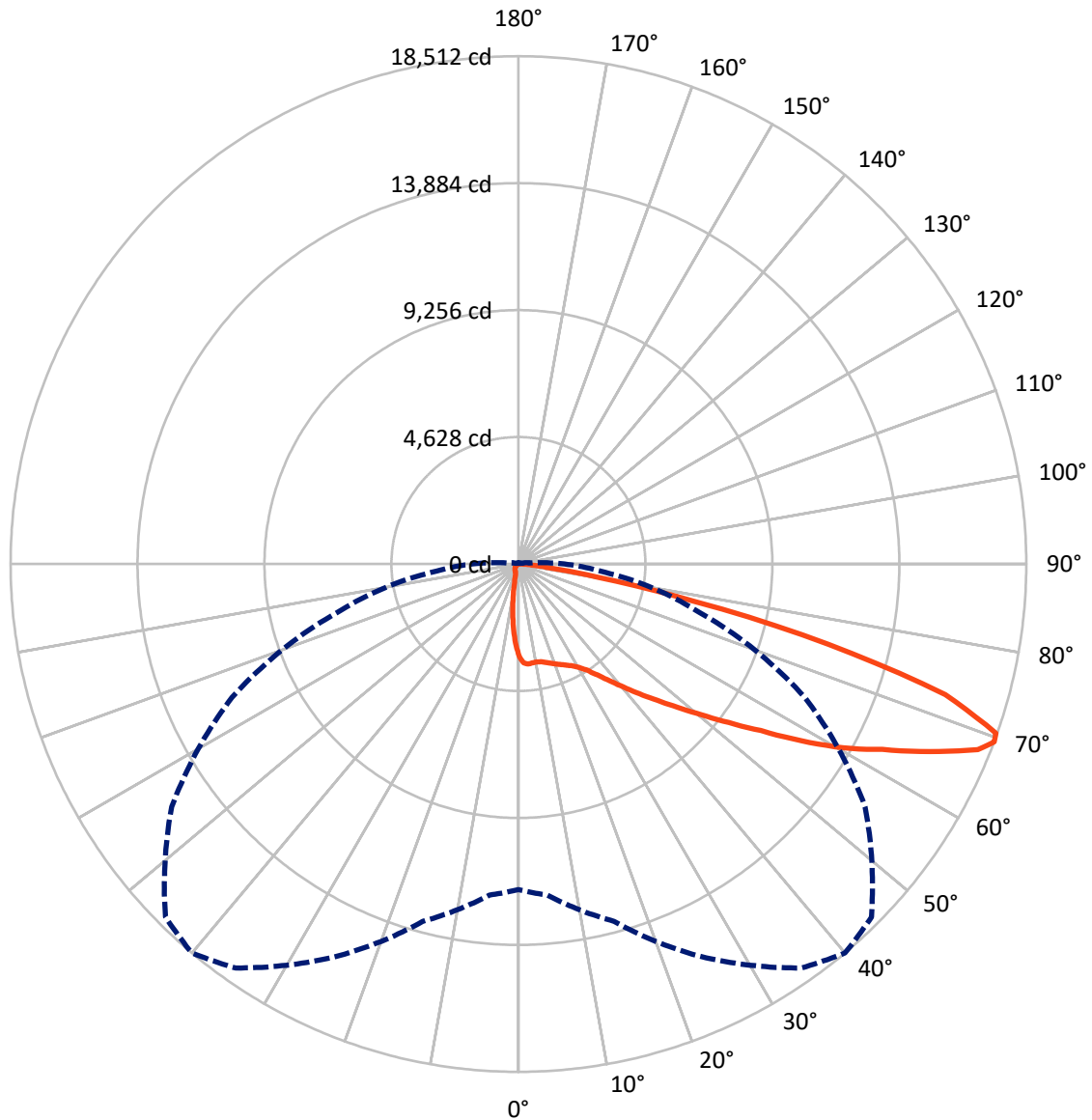


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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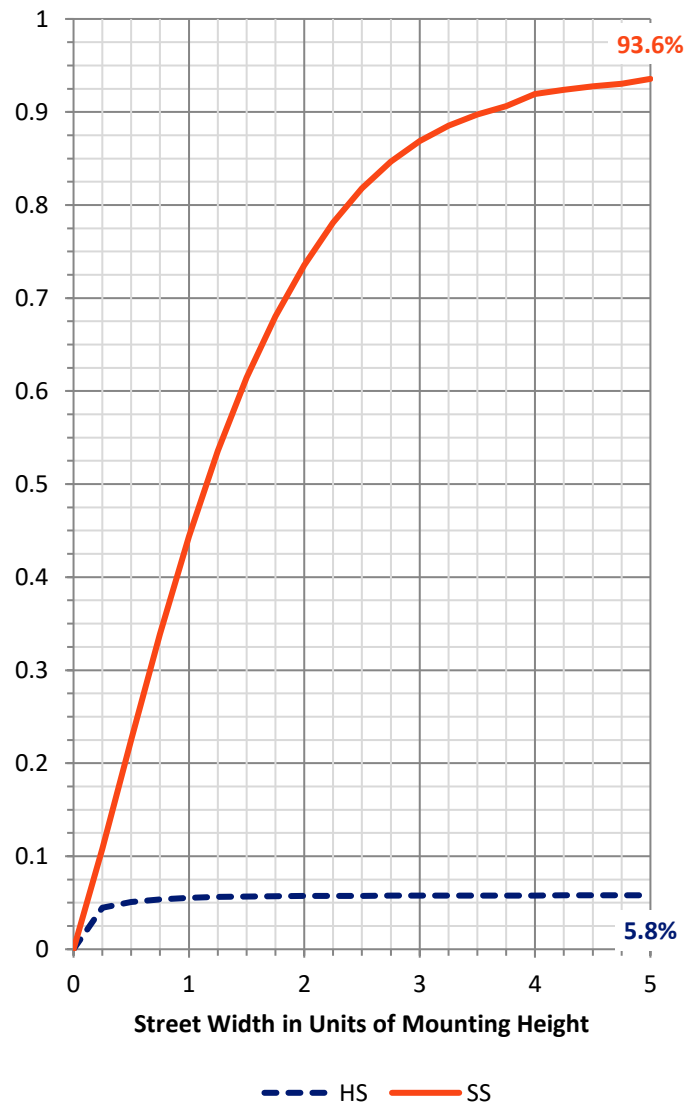
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1318.0	0.0	1318.0
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	21210.0	0.0	21210.0
	% Fixture	94.1	0.0	94.1
Total	Lumens	22528.0	0.0	22528.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.9	1.2
10°-20°	671.1	3.0
20°-30°	1130.4	5.0
30°-40°	1850.5	8.2
40°-50°	3204.0	14.2
50°-60°	5046.7	22.4
60°-70°	6590.7	29.3
70°-80°	3394.5	15.1
80°-90°	367.2	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°	22528.0	100.0
0°-180°	22528.0	100.0



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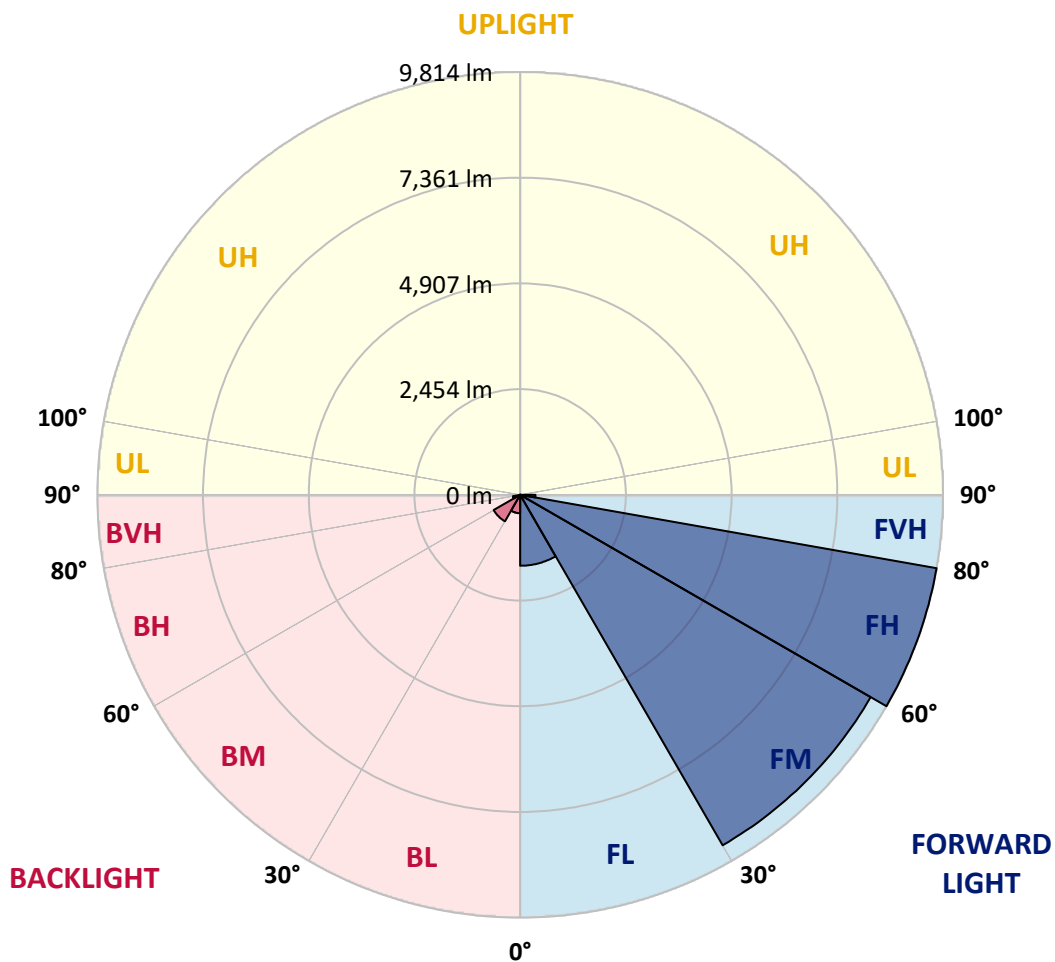
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1647.4	7.3			
FM	(30°-60°)	9392.8	41.7			
FH	(60°-80°)	9814.1	43.6			G4/12000
FVH	(80°-90°)	355.7	1.6			G3/500
BL	(0°-30°)	426.9	1.9	B1/500		
BM	(30°-60°)	708.4	3.1	B1/1000		
BH	(60°-80°)	171.1	0.8	B1/500		G1/500
BVH	(80°-90°)	11.5	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°	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8
2.5°	3695.7	3675.6	3663.5	3647.4	3627.3	3609.9	3603.1	3553.5	3506.6	3442.2	3368.5
5°	3764.1	3757.4	3735.9	3714.4	3690.3	3663.5	3648.7	3589.7	3522.7	3428.8	3300.1
7.5°	3770.8	3762.7	3735.9	3706.4	3672.9	3640.7	3615.2	3556.2	3494.5	3399.3	3242.4
10°	3760.0	3750.7	3730.5	3698.4	3656.8	3625.9	3600.5	3544.1	3491.8	3406.0	3231.7
12.5°	3748.0	3738.6	3729.2	3713.1	3676.9	3655.4	3634.0	3580.4	3533.4	3461.0	3270.6
15°	3760.0	3754.7	3765.4	3758.7	3738.6	3719.8	3698.4	3650.1	3607.2	3546.8	3341.7
17.5°	3811.0	3811.0	3844.5	3848.5	3829.8	3803.0	3772.1	3723.8	3687.6	3636.7	3426.1
20°	3930.3	3926.3	3969.2	3977.3	3931.7	3890.1	3844.5	3785.5	3757.4	3725.2	3509.3
22.5°	4135.5	4116.7	4142.2	4134.2	4044.3	3980.0	3923.6	3851.2	3836.5	3821.7	3601.8
25°	4402.4	4391.6	4409.1	4329.9	4171.7	4084.6	4017.5	3935.7	3935.7	3950.5	3706.4
27.5°	4789.9	4749.7	4690.7	4551.2	4313.9	4202.6	4130.1	4043.0	4065.8	4120.8	3844.5
30°	5186.8	5142.6	5007.1	4792.6	4486.8	4370.2	4285.7	4194.5	4248.1	4348.7	4029.6
32.5°	5578.4	5528.8	5337.0	5066.1	4734.9	4618.3	4536.5	4435.9	4525.7	4694.7	4300.4
35°	5957.9	5913.6	5692.4	5373.2	5064.8	4968.2	4893.1	4806.0	4921.3	5157.3	4682.6
37.5°	6384.3	6336.0	6066.5	5720.5	5465.7	5396.0	5341.0	5253.9	5455.0	5801.0	5215.0
40°	6908.6	6826.8	6463.4	6118.8	5929.7	5896.2	5858.6	5846.6	6159.0	6637.7	5924.3
42.5°	7509.4	7375.3	6879.1	6538.5	6439.3	6463.4	6454.0	6507.7	7040.0	7678.3	6787.9
45°	8110.1	7937.1	7341.7	6986.4	6999.8	7084.3	7136.6	7351.1	8143.6	8871.8	7717.2
47.5°	8619.7	8449.4	7785.6	7470.5	7631.4	7797.7	7939.8	8346.1	9278.1	10046.4	8440.0
50°	9055.5	8894.6	8256.3	8002.8	8364.9	8633.1	8863.7	9465.8	10498.3	10940.9	8946.9
52.5°	9412.2	9304.9	8744.4	8613.0	9203.0	9595.9	9933.8	10655.2	11579.2	11667.7	9341.1
55°	9759.5	9683.0	9268.7	9338.4	10187.2	10722.3	11150.0	11917.1	12509.8	12273.8	9719.2
57.5°	10159.1	10089.4	9866.8	10258.3	11481.3	12154.4	12621.1	13035.4	13329.1	12893.3	10075.9
60°	10566.7	10526.5	10531.9	11280.1	12967.0	13613.4	13870.8	13978.1	14133.7	13476.6	10096.1
62.5°	10955.6	11032.0	11292.2	12417.3	14389.8	14886.0	15016.0	15122.0	14939.6	13569.1	9327.7
65°	11614.0	11738.7	12359.6	13939.2	15954.7	16485.7	16619.8	16256.4	15067.0	12373.0	7587.1
67.5°	11935.8	12163.8	13271.4	15358.0	17472.7	18062.7	18013.1	16330.2	13520.9	9435.0	4869.0
69°	11868.8	12111.5	13482.0	15792.4	17976.9	18511.9	18196.8	15427.7	11518.8	6834.9	2989.0
70°	11603.3	11848.7	13373.4	15776.3	18041.2	18465.0	17856.2	14313.4	9739.4	4997.7	1869.3
72.5°	9689.7	9901.6	11872.8	14259.7	16619.8	16275.2	14938.2	9916.4	4745.6	1361.1	421.1
75°	5964.6	6082.6	8519.1	10742.4	12552.7	11667.7	9952.6	4933.4	1414.7	384.9	233.3
77.5°	3151.2	3204.9	4663.8	6332.0	7957.2	6584.1	5101.0	1924.3	651.7	241.4	169.0
80°	1862.6	1902.8	2511.6	2895.1	3443.6	2876.4	2039.6	1181.4	466.7	151.5	150.2
82.5°	1066.1	1091.5	1821.0	1609.1	1357.0	1158.6	1015.1	1119.7	280.3	101.9	155.6
85°	391.6	396.9	1024.5	1224.3	807.3	480.1	504.2	927.9	75.1	64.4	122.0
87.5°	182.4	178.3	527.0	749.6	472.0	304.4	392.9	203.8	29.5	41.6	33.5
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°	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8	3365.8
2.5°	3325.6	3276.0	3186.1	3093.6	2999.7	2927.3	2856.2	2799.9	2781.1	2746.3	2749.0
5°	3223.7	3132.5	2944.7	2754.3	2555.9	2392.3	2238.1	2113.3	2053.0	1991.3	1991.3
7.5°	3135.2	3002.4	2708.7	2399.0	2078.5	1808.9	1566.2	1383.9	1283.3	1202.8	1201.5
10°	3101.6	2921.9	2511.6	2067.8	1621.2	1253.8	965.5	780.4	685.2	623.5	620.9
12.5°	3116.4	2893.8	2360.1	1762.0	1201.5	805.9	559.2	439.8	399.6	380.8	380.8
15°	3159.3	2885.7	2208.6	1463.0	848.8	504.2	371.4	339.3	336.6	336.6	336.6
17.5°	3211.6	2888.4	2053.0	1172.0	578.0	360.7	320.5	316.5	319.1	319.1	319.1
20°	3265.2	2889.8	1885.4	902.5	407.7	313.8	301.7	300.4	303.1	303.1	304.4
22.5°	3330.9	2896.5	1717.8	674.5	336.6	296.4	287.0	287.0	288.3	288.3	287.0
25°	3406.0	2909.9	1543.4	500.2	307.1	284.3	276.2	274.9	276.2	274.9	273.6
27.5°	3499.9	2928.6	1349.0	391.6	293.7	272.2	265.5	265.5	264.2	262.8	261.5
30°	3617.9	2950.1	1130.4	332.6	280.3	261.5	254.8	253.4	252.1	249.4	249.4
32.5°	3797.6	2997.0	914.5	301.7	265.5	246.7	241.4	241.4	238.7	236.0	234.7
35°	4073.8	3089.6	721.4	282.9	249.4	230.6	223.9	223.9	221.3	219.9	218.6
37.5°	4456.0	3230.4	560.5	265.5	233.3	213.2	206.5	205.2	202.5	199.8	198.5
40°	4964.2	3404.7	441.2	249.4	217.2	195.8	190.4	187.7	182.4	178.3	178.3
42.5°	5602.5	3603.1	358.0	232.0	198.5	179.7	175.7	171.6	162.3	158.2	156.9
45°	6270.3	3781.5	303.1	211.9	179.7	163.6	160.9	154.2	142.1	138.1	138.1
47.5°	6751.7	3823.1	266.9	193.1	162.3	146.2	144.8	132.8	122.0	119.3	118.0
50°	7052.1	3741.3	237.3	174.3	146.2	130.1	126.0	111.3	104.6	101.9	100.6
52.5°	7254.6	3595.1	213.2	158.2	131.4	115.3	105.9	95.2	89.8	87.2	87.2
55°	7416.8	3388.6	189.1	143.5	119.3	103.3	89.8	81.8	76.4	73.8	73.8
57.5°	7462.4	3108.3	164.9	131.4	107.3	91.2	76.4	71.1	64.4	63.0	63.0
60°	7131.2	2602.8	146.2	116.7	96.5	79.1	67.0	60.3	53.6	52.3	51.0
62.5°	6258.2	2014.1	128.7	103.3	84.5	68.4	57.7	49.6	44.3	44.3	44.3
65°	4773.8	1350.3	112.6	89.8	73.8	57.7	49.6	40.2	37.5	37.5	38.9
67.5°	2857.6	734.8	96.5	76.4	63.0	48.3	41.6	34.9	33.5	34.9	34.9
69°	1674.9	431.8	87.2	68.4	55.0	42.9	36.2	30.8	33.5	34.9	34.9
70°	1033.9	291.0	80.5	61.7	49.6	38.9	33.5	29.5	32.2	33.5	33.5
72.5°	288.3	150.2	64.4	48.3	40.2	32.2	26.8	26.8	30.8	32.2	32.2
75°	187.7	111.3	49.6	36.2	30.8	25.5	22.8	25.5	29.5	30.8	30.8
77.5°	155.6	91.2	40.2	29.5	25.5	24.1	21.5	22.8	26.8	28.2	28.2
80°	142.1	64.4	32.2	26.8	22.8	21.5	20.1	18.8	24.1	25.5	25.5
82.5°	135.4	51.0	28.2	24.1	21.5	18.8	17.4	18.8	21.5	22.8	24.1
85°	84.5	33.5	25.5	22.8	18.8	17.4	17.4	17.4	20.1	21.5	21.5
87.5°	30.8	26.8	22.8	18.8	16.1	16.1	16.1	16.1	17.4	20.1	20.1
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)