

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: P269405

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269405
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-SL4-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 20282.3 lumens
Efficiency: N/A
Efficacy: 81.5 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): 249
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

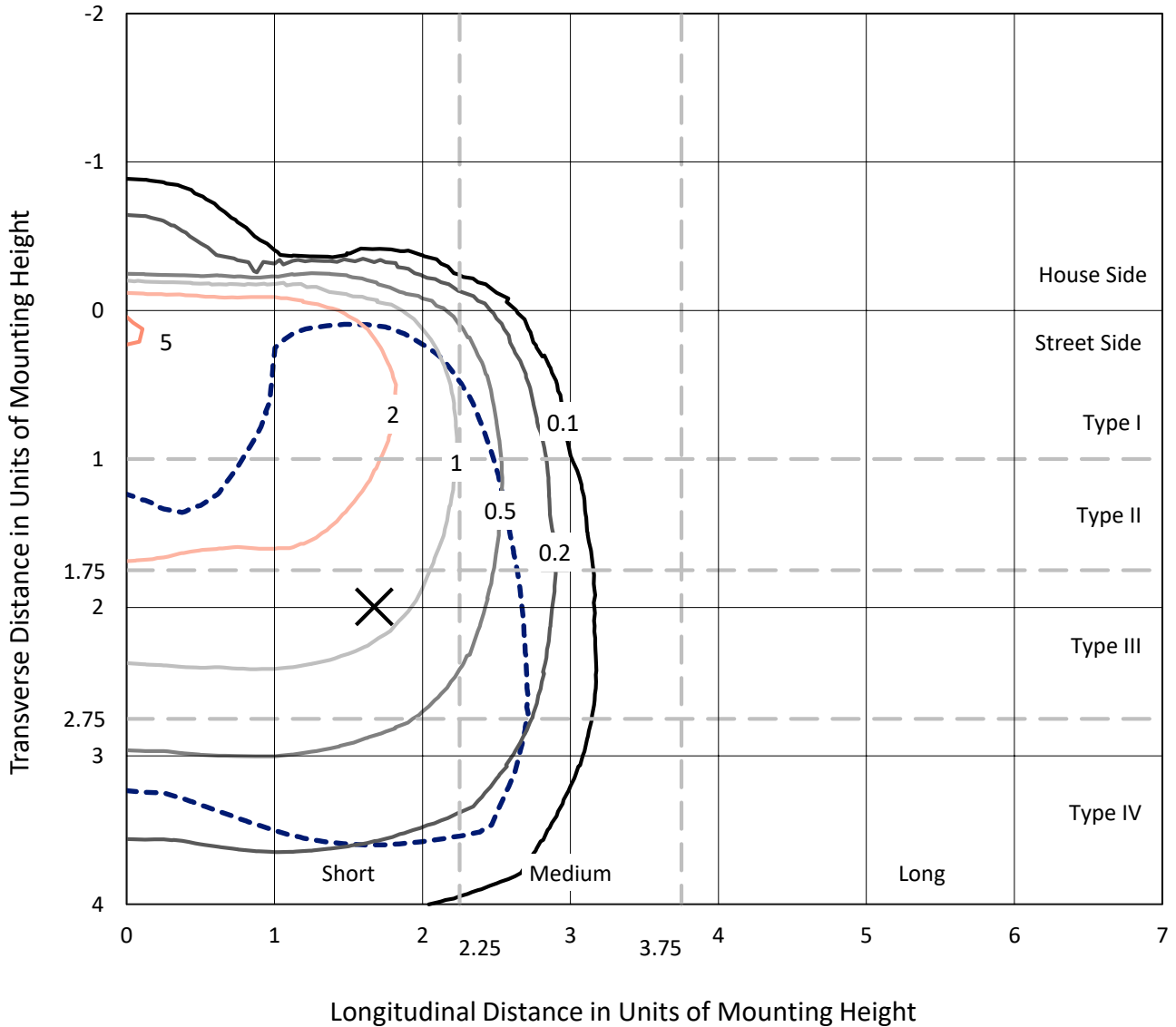


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

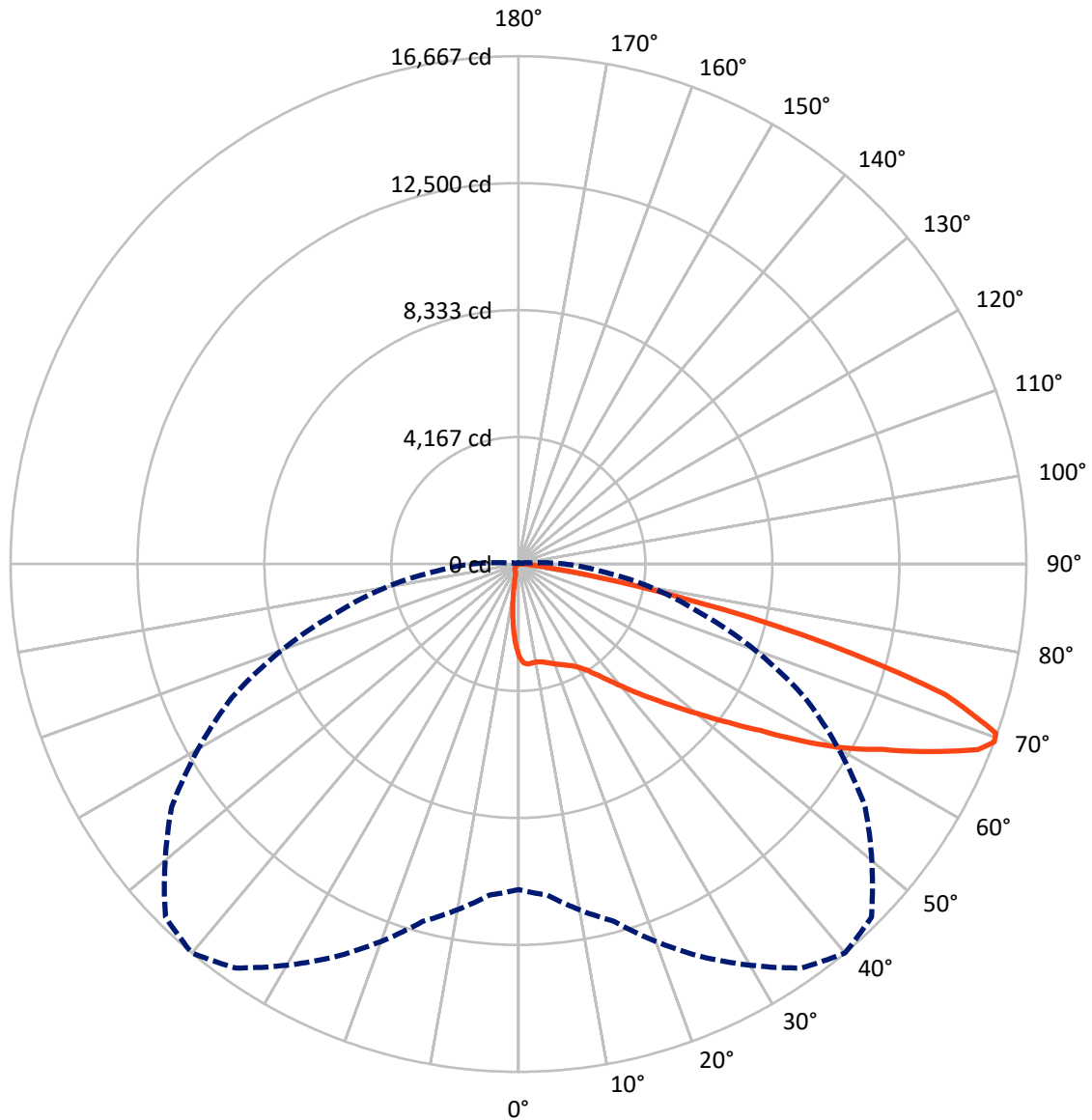


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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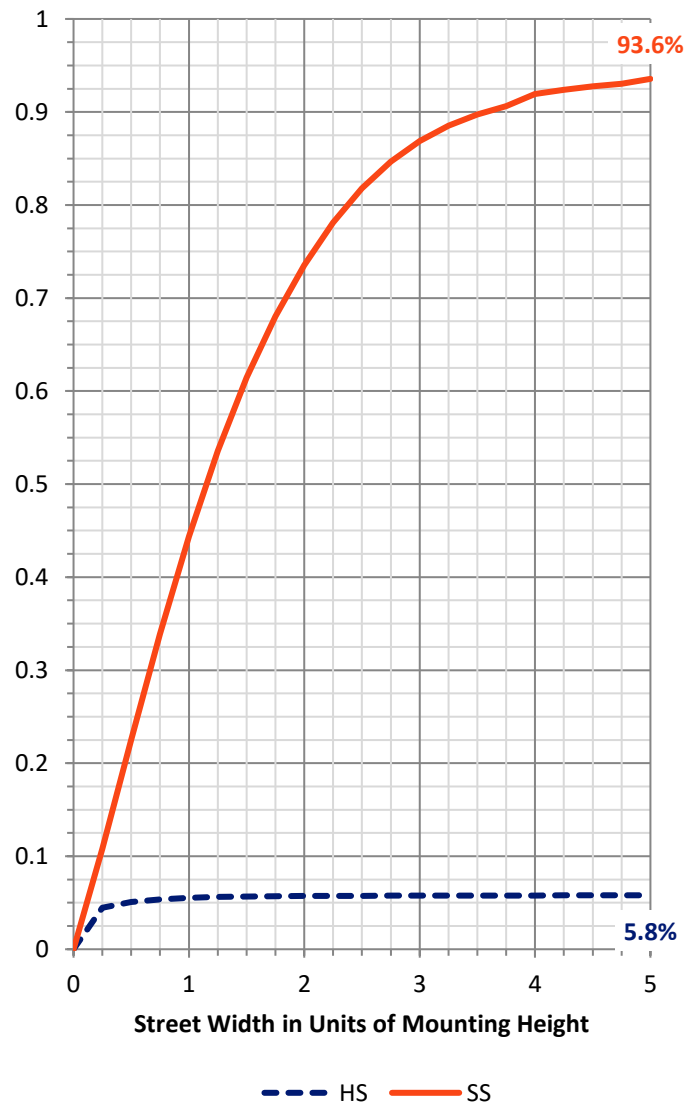
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1186.6	0.0	1186.6
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	19095.7	0.0	19095.7
	% Fixture	94.1	0.0	94.1
Total	Lumens	20282.3	0.0	20282.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.7	1.2
10°-20°	604.2	3.0
20°-30°	1017.7	5.0
30°-40°	1666.0	8.2
40°-50°	2884.6	14.2
50°-60°	4543.6	22.4
60°-70°	5933.7	29.3
70°-80°	3056.1	15.1
80°-90°	330.6	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°	20282.3	100.0
0°-180°	20282.3	100.0



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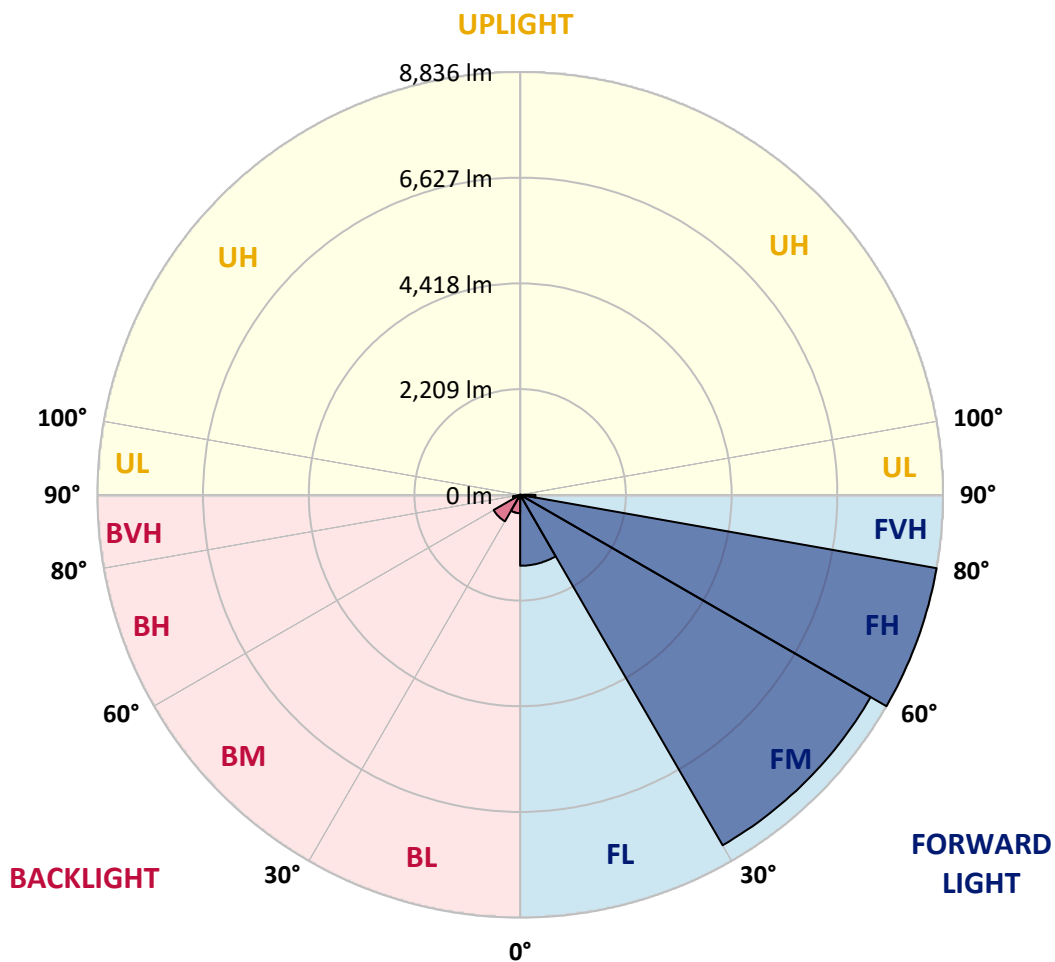
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1483.2	7.3			
FM	(30°-60°)	8456.4	41.7			
FH	(60°-80°)	8835.8	43.6			G4/12000
FVH	(80°-90°)	320.2	1.6			G3/500
BL	(0°-30°)	384.4	1.9	B1/500		
BM	(30°-60°)	637.8	3.1	B1/1000		
BH	(60°-80°)	154.1	0.8	B1/500		G1/500
BVH	(80°-90°)	10.4	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°	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3
2.5°	3327.3	3309.1	3298.2	3283.8	3265.7	3250.0	3244.0	3199.4	3157.1	3099.2	3032.7
5°	3388.9	3382.7	3363.6	3344.2	3322.4	3298.2	3285.0	3231.9	3171.6	3087.0	2971.1
7.5°	3394.9	3387.7	3363.6	3336.9	3306.8	3277.7	3254.7	3201.6	3146.1	3060.4	2919.2
10°	3385.3	3376.8	3358.7	3329.7	3292.3	3264.5	3241.5	3190.9	3143.8	3066.5	2909.6
12.5°	3374.4	3365.9	3357.4	3343.0	3310.3	3291.1	3271.7	3223.5	3181.2	3116.0	2944.6
15°	3385.3	3380.4	3390.1	3384.1	3365.9	3349.1	3329.7	3286.2	3247.6	3193.2	3008.6
17.5°	3431.0	3431.0	3461.3	3464.9	3448.1	3423.9	3396.1	3352.7	3320.0	3274.1	3084.6
20°	3538.6	3534.9	3573.5	3580.9	3539.7	3502.3	3461.3	3408.2	3382.7	3353.8	3159.5
22.5°	3723.3	3706.3	3729.4	3722.0	3641.2	3583.2	3532.6	3467.3	3454.1	3440.8	3242.7
25°	3963.5	3953.9	3969.5	3898.4	3755.9	3677.4	3617.0	3543.4	3543.4	3556.7	3336.9
27.5°	4312.5	4276.2	4223.1	4097.4	3883.8	3783.7	3718.4	3639.9	3660.5	3710.0	3461.3
30°	4669.7	4630.0	4508.1	4314.7	4039.6	3934.5	3858.5	3776.4	3824.7	3915.3	3627.9
32.5°	5022.3	4977.6	4804.9	4561.1	4262.9	4157.9	4084.2	3993.7	4074.6	4226.6	3871.8
35°	5364.0	5324.2	5124.9	4837.6	4559.8	4473.0	4405.4	4326.9	4430.7	4643.2	4215.8
37.5°	5747.9	5704.3	5461.8	5150.3	4920.8	4858.2	4808.5	4730.1	4911.3	5222.7	4695.1
40°	6220.0	6146.3	5819.1	5508.9	5338.5	5308.4	5274.6	5263.8	5545.1	5976.1	5333.7
42.5°	6760.9	6640.0	6193.4	5886.8	5797.4	5819.1	5810.6	5858.9	6338.3	6912.8	6111.3
45°	7301.7	7145.8	6609.9	6289.9	6302.0	6378.1	6425.1	6618.4	7331.8	7987.4	6947.9
47.5°	7760.4	7607.0	7009.5	6725.8	6870.6	7020.3	7148.4	7514.1	8353.2	9044.9	7598.7
50°	8152.7	8007.9	7433.3	7205.0	7531.0	7772.5	7980.2	8522.2	9451.8	9850.3	8055.0
52.5°	8473.9	8377.4	7872.7	7754.3	8285.5	8639.3	8943.5	9593.1	10424.9	10504.6	8409.9
55°	8786.6	8717.8	8344.7	8407.5	9171.8	9653.5	10038.6	10729.1	11262.8	11050.3	8750.4
57.5°	9146.5	9083.7	8883.2	9235.7	10336.7	10942.9	11362.9	11735.9	12000.4	11608.1	9071.5
60°	9513.4	9477.2	9482.0	10155.7	11674.5	12256.4	12488.1	12584.7	12724.9	12133.1	9089.6
62.5°	9863.5	9932.3	10166.6	11179.4	12955.4	13402.1	13519.1	13614.5	13450.3	12216.5	8397.9
65°	10456.4	10568.6	11127.6	12549.7	14364.3	14842.3	14963.1	14635.8	13565.0	11139.6	6830.8
67.5°	10746.1	10951.2	11948.4	13827.0	15730.8	16262.0	16217.5	14702.3	12173.0	8494.5	4383.6
69°	10685.7	10904.2	12138.0	14218.2	16184.9	16666.6	16382.8	13889.9	10370.6	6153.5	2691.1
70°	10446.6	10667.6	12040.3	14203.7	16242.9	16624.4	16076.2	12886.5	8768.4	4499.5	1683.0
72.5°	8723.8	8914.6	10689.3	12838.2	14963.1	14652.9	13449.2	8927.9	4272.6	1225.4	379.1
75°	5370.0	5476.2	7669.9	9671.5	11301.3	10504.6	8960.5	4441.6	1273.6	346.4	210.1
77.5°	2837.0	2885.4	4198.9	5700.9	7164.1	5927.7	4592.6	1732.4	586.8	217.3	152.2
80°	1677.0	1713.2	2261.3	2606.5	3100.3	2589.6	1836.2	1063.7	420.1	136.5	135.3
82.5°	959.7	982.7	1639.4	1448.7	1221.8	1043.1	913.9	1008.1	252.3	91.7	140.0
85°	352.6	357.3	922.4	1102.2	726.8	432.3	454.0	835.5	67.6	57.9	109.9
87.5°	164.2	160.5	474.5	674.8	425.0	274.1	353.8	183.6	26.6	37.4	30.3
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°	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3
2.5°	2994.1	2949.3	2868.5	2785.3	2700.8	2635.4	2571.5	2520.9	2503.8	2472.6	2474.9
5°	2902.3	2820.1	2651.2	2479.7	2301.1	2153.7	2015.0	1902.7	1848.4	1792.7	1792.7
7.5°	2822.7	2703.1	2438.7	2159.9	1871.3	1628.6	1410.1	1245.9	1155.4	1082.9	1081.6
10°	2792.4	2630.6	2261.3	1861.6	1459.6	1128.8	869.2	702.7	617.0	561.4	558.9
12.5°	2805.8	2605.4	2124.9	1586.3	1081.6	725.7	503.4	396.1	359.9	342.9	342.9
15°	2844.4	2598.1	1988.4	1317.2	764.2	454.0	334.3	305.5	303.0	303.0	303.0
17.5°	2891.5	2600.6	1848.4	1055.1	520.4	324.7	288.5	284.9	287.4	287.4	287.4
20°	2939.8	2601.8	1697.4	812.4	367.0	282.4	271.6	270.4	272.8	272.8	274.1
22.5°	2998.9	2607.7	1546.5	607.3	303.0	266.7	258.4	258.4	259.6	259.6	258.4
25°	3066.5	2619.7	1389.6	450.3	276.5	255.9	248.7	247.6	248.7	247.6	246.2
27.5°	3151.1	2636.7	1214.5	352.6	264.5	245.1	239.0	239.0	237.8	236.7	235.4
30°	3257.3	2656.0	1017.7	299.4	252.3	235.4	229.3	228.2	227.0	224.5	224.5
32.5°	3418.9	2698.2	823.3	271.6	239.0	222.2	217.3	217.3	215.0	212.4	211.3
35°	3667.7	2781.6	649.6	254.7	224.5	207.7	201.6	201.6	199.2	197.9	196.8
37.5°	4011.8	2908.4	504.7	239.0	210.1	192.0	185.9	184.7	182.3	179.9	178.7
40°	4469.3	3065.2	397.2	224.5	195.7	176.2	171.4	169.1	164.2	160.5	160.5
42.5°	5044.1	3244.0	322.3	208.9	178.7	161.8	158.1	154.5	146.1	142.4	141.3
45°	5645.3	3404.5	272.8	190.7	161.8	147.3	144.8	138.9	128.0	124.3	124.3
47.5°	6078.7	3441.9	240.2	173.8	146.1	131.6	130.3	119.6	109.9	107.4	106.2
50°	6349.1	3368.4	213.6	156.9	131.6	117.0	113.5	100.3	94.1	91.7	90.5
52.5°	6531.3	3236.8	192.0	142.4	118.2	103.8	95.4	85.7	80.8	78.5	78.5
55°	6677.6	3050.9	170.1	129.1	107.4	93.0	80.8	73.7	68.8	66.5	66.5
57.5°	6718.6	2798.5	148.5	118.2	96.6	82.0	68.8	64.0	57.9	56.8	56.8
60°	6420.4	2343.4	131.6	105.0	87.0	71.2	60.4	54.3	48.2	47.2	45.9
62.5°	5634.3	1813.4	115.9	93.0	76.0	61.5	51.9	44.6	39.9	39.9	39.9
65°	4297.9	1215.8	101.4	80.8	66.5	51.9	44.6	36.2	33.7	33.7	35.0
67.5°	2572.7	661.6	87.0	68.8	56.8	43.5	37.4	31.4	30.3	31.4	31.4
69°	1507.8	388.7	78.5	61.5	49.4	38.6	32.6	27.8	30.3	31.4	31.4
70°	930.9	261.9	72.5	55.5	44.6	35.0	30.3	26.6	28.9	30.3	30.3
72.5°	259.6	135.3	57.9	43.5	36.2	28.9	24.2	24.2	27.8	28.9	28.9
75°	169.1	100.3	44.6	32.6	27.8	22.9	20.5	22.9	26.6	27.8	27.8
77.5°	140.0	82.0	36.2	26.6	22.9	21.6	19.4	20.5	24.2	25.3	25.3
80°	128.0	57.9	28.9	24.2	20.5	19.4	18.1	16.9	21.6	22.9	22.9
82.5°	121.9	45.9	25.3	21.6	19.4	16.9	15.7	16.9	19.4	20.5	21.6
85°	76.0	30.3	22.9	20.5	16.9	15.7	15.7	15.7	18.1	19.4	19.4
87.5°	27.8	24.2	20.5	16.9	14.6	14.6	14.6	14.6	15.7	18.1	18.1
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)