

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: P193753

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193753
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-05-LED-E1-SL4-8030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 19702 lumens
Efficiency: N/A
Efficacy: 70.6 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): 279
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

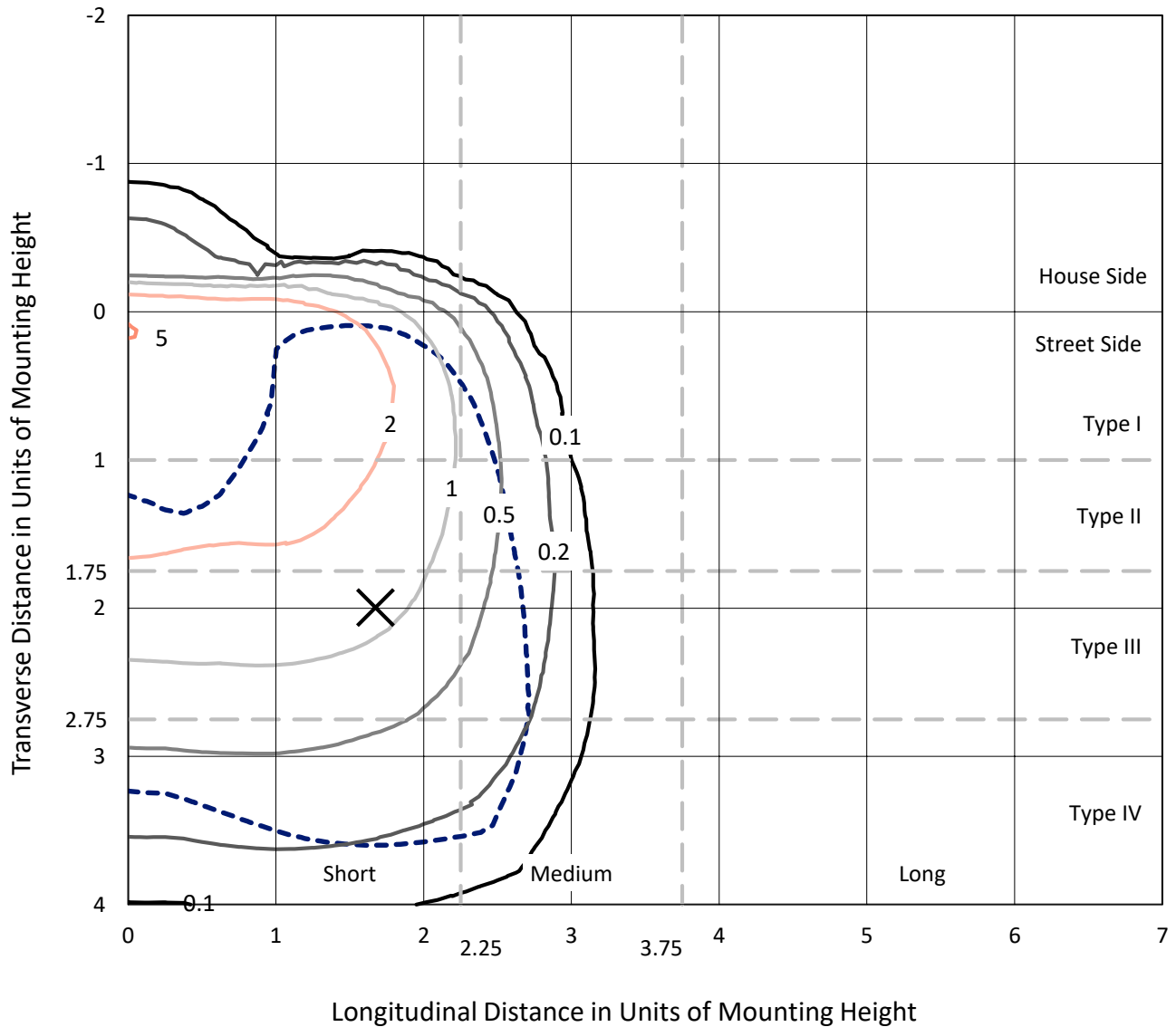


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

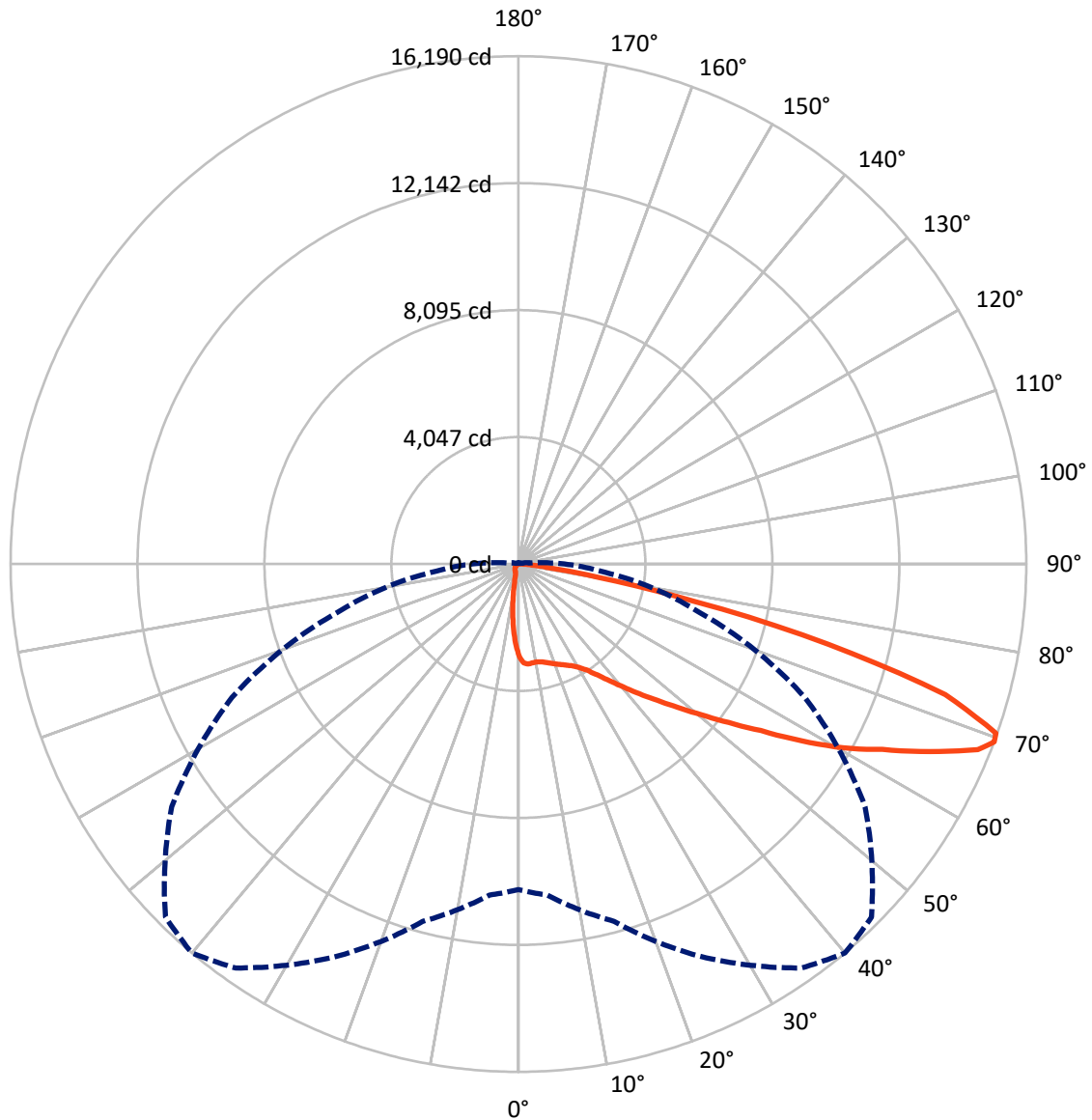


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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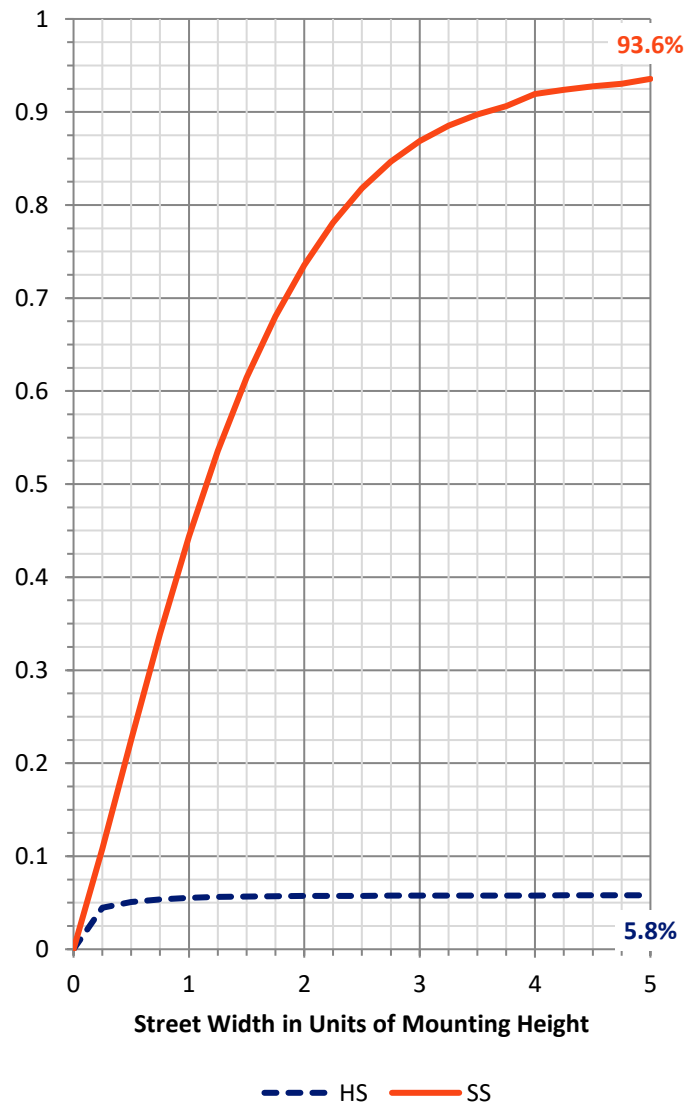
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1152.7	0.0	1152.7
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	18549.3	0.0	18549.3
	% Fixture	94.1	0.0	94.1
Total	Lumens	19702.0	0.0	19702.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.7	1.2
10°-20°	586.9	3.0
20°-30°	988.6	5.0
30°-40°	1618.3	8.2
40°-50°	2802.1	14.2
50°-60°	4413.6	22.4
60°-70°	5764.0	29.3
70°-80°	2968.7	15.1
80°-90°	321.1	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°	19702.0	100.0
0°-180°	19702.0	100.0



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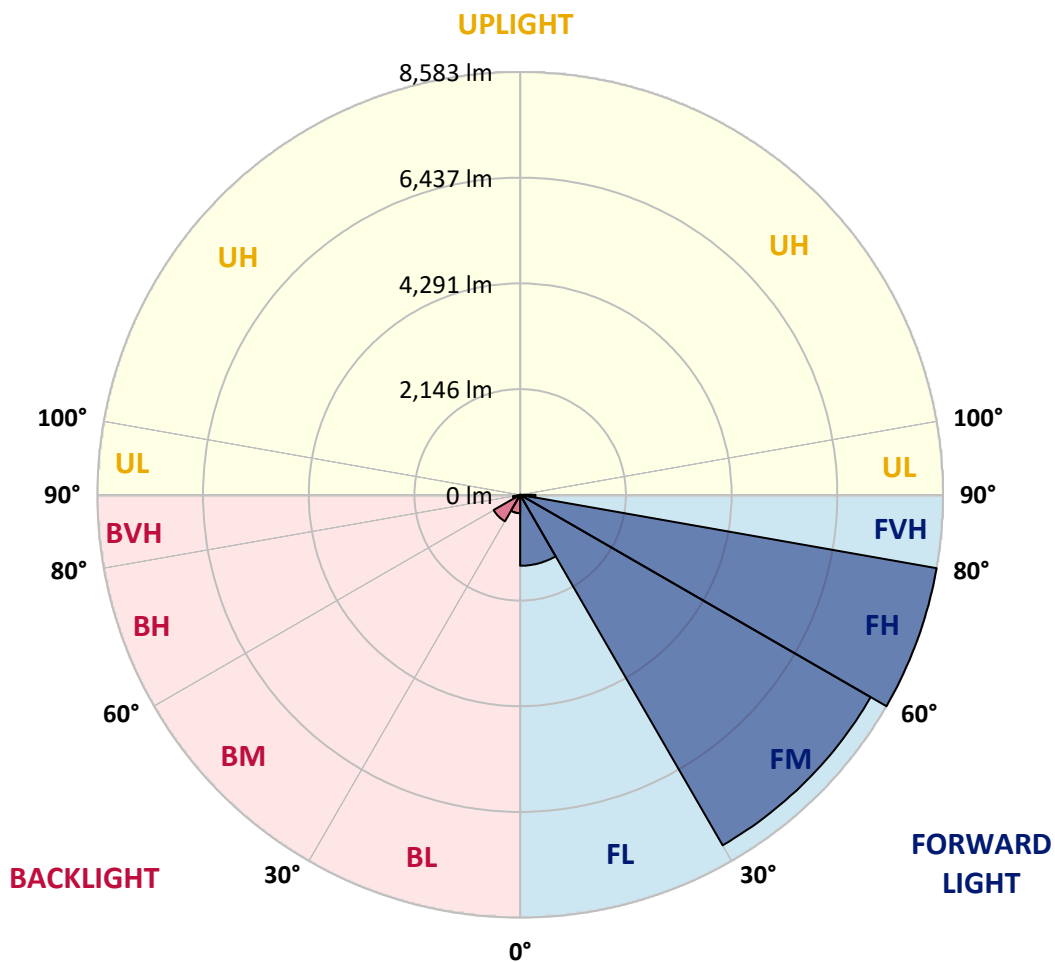
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1440.8	7.3			
FM	(30°-60°)	8214.5	41.7			
FH	(60°-80°)	8583.0	43.6			G4/12000
FVH	(80°-90°)	311.0	1.6			G3/500
BL	(0°-30°)	373.4	1.9	B1/500		
BM	(30°-60°)	619.5	3.1	B1/1000		
BH	(60°-80°)	149.7	0.8	B1/500		G1/500
BVH	(80°-90°)	10.1	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°	2943.6	2943.6	2943.6	2943.6	2943.6	2943.6	2943.6	2943.6	2943.6	2943.6	2943.6
2.5°	3232.1	3214.5	3203.9	3189.9	3172.3	3157.0	3151.2	3107.8	3066.7	3010.4	2945.9
5°	3291.9	3286.0	3267.3	3248.5	3227.4	3203.9	3191.0	3139.4	3080.8	2998.7	2886.1
7.5°	3297.7	3290.7	3267.3	3241.5	3212.1	3184.0	3161.7	3110.1	3056.2	2972.9	2835.7
10°	3288.4	3280.2	3262.6	3234.4	3198.1	3171.1	3148.8	3099.6	3053.8	2978.8	2826.3
12.5°	3277.8	3269.6	3261.4	3247.3	3215.7	3196.9	3178.1	3131.2	3090.2	3026.8	2860.3
15°	3288.4	3283.7	3293.1	3287.2	3269.6	3253.2	3234.4	3192.2	3154.7	3101.9	2922.5
17.5°	3332.9	3332.9	3362.2	3365.8	3349.3	3325.9	3298.9	3256.7	3225.0	3180.5	2996.4
20°	3437.3	3433.8	3471.3	3478.4	3438.5	3402.1	3362.2	3310.6	3286.0	3257.9	3069.1
22.5°	3616.7	3600.3	3622.6	3615.6	3537.0	3480.7	3431.4	3368.1	3355.2	3342.3	3150.0
25°	3850.1	3840.7	3856.0	3786.8	3648.4	3572.2	3513.5	3442.0	3442.0	3454.9	3241.5
27.5°	4189.0	4153.8	4102.2	3980.3	3772.7	3675.4	3612.0	3535.8	3555.8	3603.8	3362.2
30°	4536.2	4497.5	4379.0	4191.4	3924.0	3822.0	3748.1	3668.3	3715.2	3803.2	3524.1
32.5°	4878.6	4835.2	4667.5	4430.6	4140.9	4038.9	3967.4	3879.4	3958.0	4105.8	3761.0
35°	5210.5	5171.8	4978.3	4699.2	4429.4	4345.0	4279.3	4203.1	4304.0	4510.4	4095.2
37.5°	5583.4	5541.2	5305.5	5002.9	4780.1	4719.1	4671.0	4594.8	4770.7	5073.3	4560.8
40°	6042.0	5970.4	5652.6	5351.2	5185.9	5156.5	5123.7	5113.2	5386.4	5805.1	5181.2
42.5°	6567.4	6450.1	6016.2	5718.3	5631.5	5652.6	5644.4	5691.3	6156.9	6715.1	5936.4
45°	7092.7	6941.5	6420.8	6110.0	6121.7	6195.6	6241.3	6429.0	7122.1	7758.9	6749.1
47.5°	7538.4	7389.4	6808.9	6533.3	6674.1	6819.5	6943.8	7299.1	8114.2	8786.2	7381.2
50°	7919.5	7778.8	7220.6	6998.9	7315.6	7550.1	7751.8	8278.4	9181.4	9568.4	7824.5
52.5°	8231.5	8137.7	7647.4	7532.5	8048.5	8392.1	8687.7	9318.6	10126.6	10204.0	8169.3
55°	8535.2	8468.4	8106.0	8167.0	8909.3	9377.2	9751.3	10422.1	10940.5	10734.1	8500.0
57.5°	8884.7	8823.7	8629.0	8971.5	10041.0	10629.7	11037.8	11400.2	11657.0	11275.9	8812.0
60°	9241.2	9206.0	9210.7	9865.1	11340.4	11905.7	12130.8	12224.7	12360.7	11786.0	8829.6
62.5°	9581.3	9648.1	9875.7	10859.6	12584.7	13018.6	13132.4	13225.0	13065.5	11867.0	8157.6
65°	10157.1	10266.2	10809.2	12190.6	13953.3	14417.7	14535.0	14217.1	13176.9	10820.9	6635.4
67.5°	10438.6	10637.9	11606.6	13431.4	15280.8	15796.8	15753.4	14281.6	11824.7	8251.4	4258.2
69°	10379.9	10592.2	11790.7	13811.4	15721.8	16189.7	15914.1	13492.4	10073.8	5977.5	2614.0
70°	10147.7	10362.3	11695.7	13797.3	15778.1	16148.6	15616.2	12517.8	8517.6	4370.8	1634.8
72.5°	8474.2	8659.5	10383.4	12470.9	14535.0	14233.6	13064.3	8672.4	4150.3	1190.3	368.2
75°	5216.4	5319.6	7450.4	9394.8	10978.0	10204.0	8704.1	4314.5	1237.2	336.6	204.1
77.5°	2755.9	2802.9	4078.8	5537.7	6959.0	5758.2	4461.1	1682.9	570.0	211.1	147.8
80°	1628.9	1664.1	2196.5	2531.9	3011.6	2515.5	1783.7	1033.2	408.1	132.5	131.3
82.5°	932.3	954.6	1592.6	1407.3	1186.8	1013.2	887.8	979.2	245.1	89.1	136.0
85°	342.4	347.1	896.0	1070.7	706.0	419.8	441.0	811.5	65.7	56.3	106.7
87.5°	159.5	156.0	460.9	655.6	412.8	266.2	343.6	178.3	25.8	36.4	29.3
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°	2943.6	2943.6	2943.6	2943.6	2943.6	2943.6	2943.6	2943.6	2943.6	2943.6	2943.6
2.5°	2908.4	2865.0	2786.4	2705.5	2623.4	2560.1	2497.9	2448.7	2432.3	2401.8	2404.1
5°	2819.3	2739.5	2575.3	2408.8	2235.2	2092.2	1957.3	1848.2	1795.5	1741.5	1741.5
7.5°	2741.9	2625.8	2368.9	2098.0	1817.7	1582.0	1369.8	1210.3	1122.3	1051.9	1050.8
10°	2712.6	2555.4	2196.5	1808.4	1417.8	1096.5	844.4	682.5	599.3	545.3	543.0
12.5°	2725.5	2530.8	2064.0	1541.0	1050.8	704.8	489.0	384.7	349.5	333.1	333.1
15°	2763.0	2523.7	1931.5	1279.5	742.3	441.0	324.8	296.7	294.4	294.4	294.4
17.5°	2808.7	2526.1	1795.5	1025.0	505.5	315.5	280.3	276.8	279.1	279.1	279.1
20°	2855.6	2527.3	1648.9	789.3	356.5	274.4	263.9	262.7	265.0	265.0	266.2
22.5°	2913.1	2533.1	1502.3	589.9	294.4	259.2	251.0	251.0	252.1	252.1	251.0
25°	2978.8	2544.8	1349.8	437.4	268.6	248.6	241.6	240.4	241.6	240.4	239.2
27.5°	3060.9	2561.3	1179.8	342.4	256.8	238.1	232.2	232.2	231.0	229.9	228.7
30°	3164.1	2580.0	988.6	290.8	245.1	228.7	222.8	221.6	220.5	218.1	218.1
32.5°	3321.2	2621.1	799.8	263.9	232.2	215.8	211.1	211.1	208.7	206.4	205.2
35°	3562.8	2702.0	630.9	247.4	218.1	201.7	195.8	195.8	193.5	192.3	191.2
37.5°	3897.0	2825.1	490.2	232.2	204.1	186.5	180.6	179.4	177.1	174.7	173.6
40°	4341.5	2977.6	385.8	218.1	190.0	171.2	166.5	164.2	159.5	156.0	156.0
42.5°	4899.7	3151.2	313.1	202.9	173.6	157.1	153.6	150.1	141.9	138.4	137.2
45°	5483.7	3307.1	265.0	185.3	157.1	143.1	140.7	134.9	124.3	120.8	120.8
47.5°	5904.8	3343.5	233.4	168.9	141.9	127.8	126.7	116.1	106.7	104.4	103.2
50°	6167.4	3271.9	207.6	152.5	127.8	113.8	110.2	97.3	91.5	89.1	88.0
52.5°	6344.5	3144.1	186.5	138.4	114.9	100.9	92.6	83.3	78.6	76.2	76.2
55°	6486.4	2963.5	165.4	125.5	104.4	90.3	78.6	71.5	66.8	64.5	64.5
57.5°	6526.3	2718.4	144.2	114.9	93.8	79.7	66.8	62.2	56.3	55.1	55.1
60°	6236.6	2276.3	127.8	102.0	84.4	69.2	58.6	52.8	46.9	45.7	44.6
62.5°	5473.2	1761.5	112.6	90.3	73.9	59.8	50.4	43.4	38.7	38.7	38.7
65°	4175.0	1181.0	98.5	78.6	64.5	50.4	43.4	35.2	32.8	32.8	34.0
67.5°	2499.1	642.7	84.4	66.8	55.1	42.2	36.4	30.5	29.3	30.5	30.5
69°	1464.8	377.6	76.2	59.8	48.1	37.5	31.7	27.0	29.3	30.5	30.5
70°	904.2	254.5	70.4	53.9	43.4	34.0	29.3	25.8	28.1	29.3	29.3
72.5°	252.1	131.3	56.3	42.2	35.2	28.1	23.5	23.5	27.0	28.1	28.1
75°	164.2	97.3	43.4	31.7	27.0	22.3	19.9	22.3	25.8	27.0	27.0
77.5°	136.0	79.7	35.2	25.8	22.3	21.1	18.8	19.9	23.5	24.6	24.6
80°	124.3	56.3	28.1	23.5	19.9	18.8	17.6	16.4	21.1	22.3	22.3
82.5°	118.4	44.6	24.6	21.1	18.8	16.4	15.2	16.4	18.8	19.9	21.1
85°	73.9	29.3	22.3	19.9	16.4	15.2	15.2	15.2	17.6	18.8	18.8
87.5°	27.0	23.5	19.9	16.4	14.1	14.1	14.1	14.1	15.2	17.6	17.6
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)