

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: P193744

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193744
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-SL4-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 19050 lumens
Efficiency: N/A
Efficacy: 76.5 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

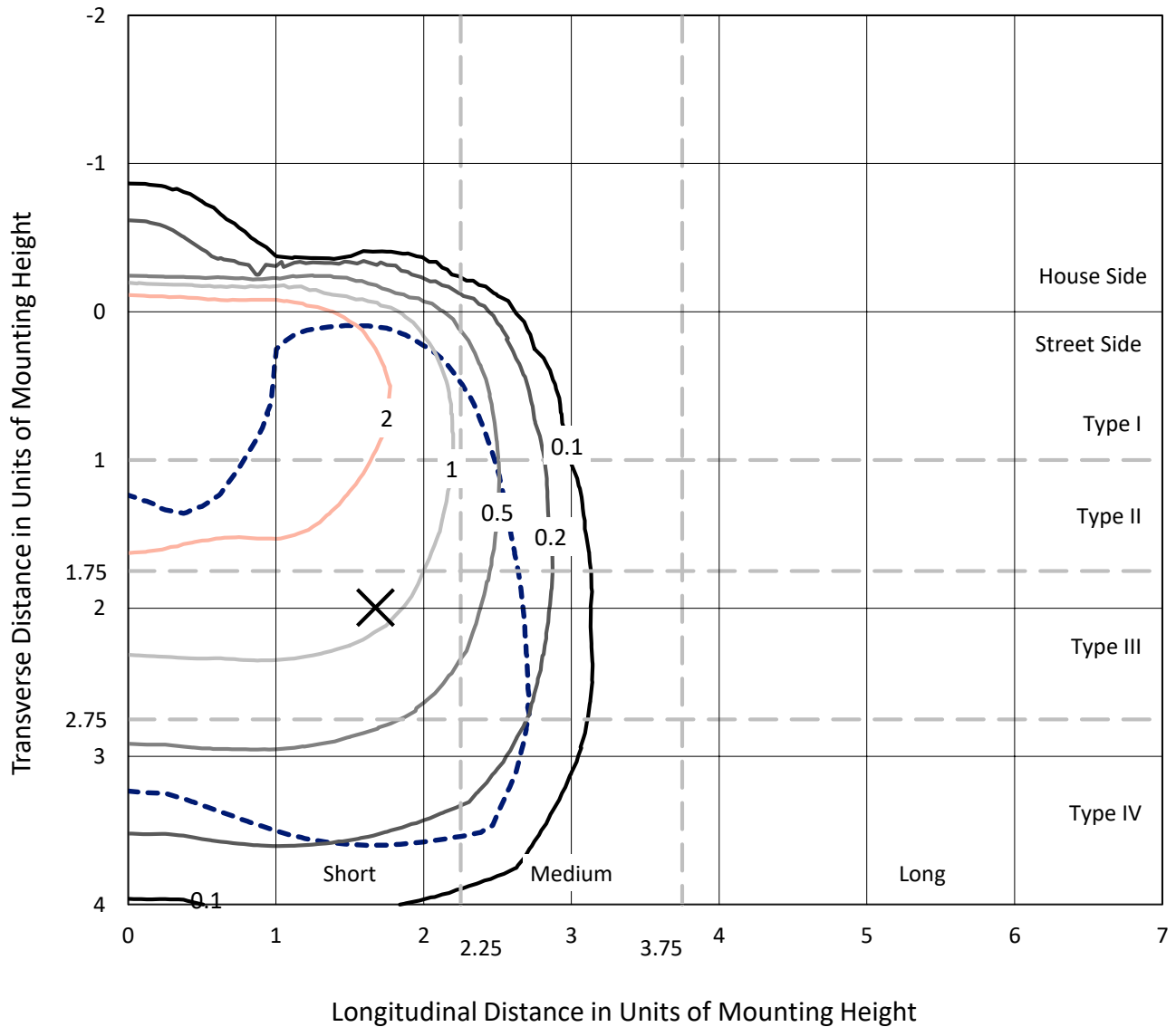


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

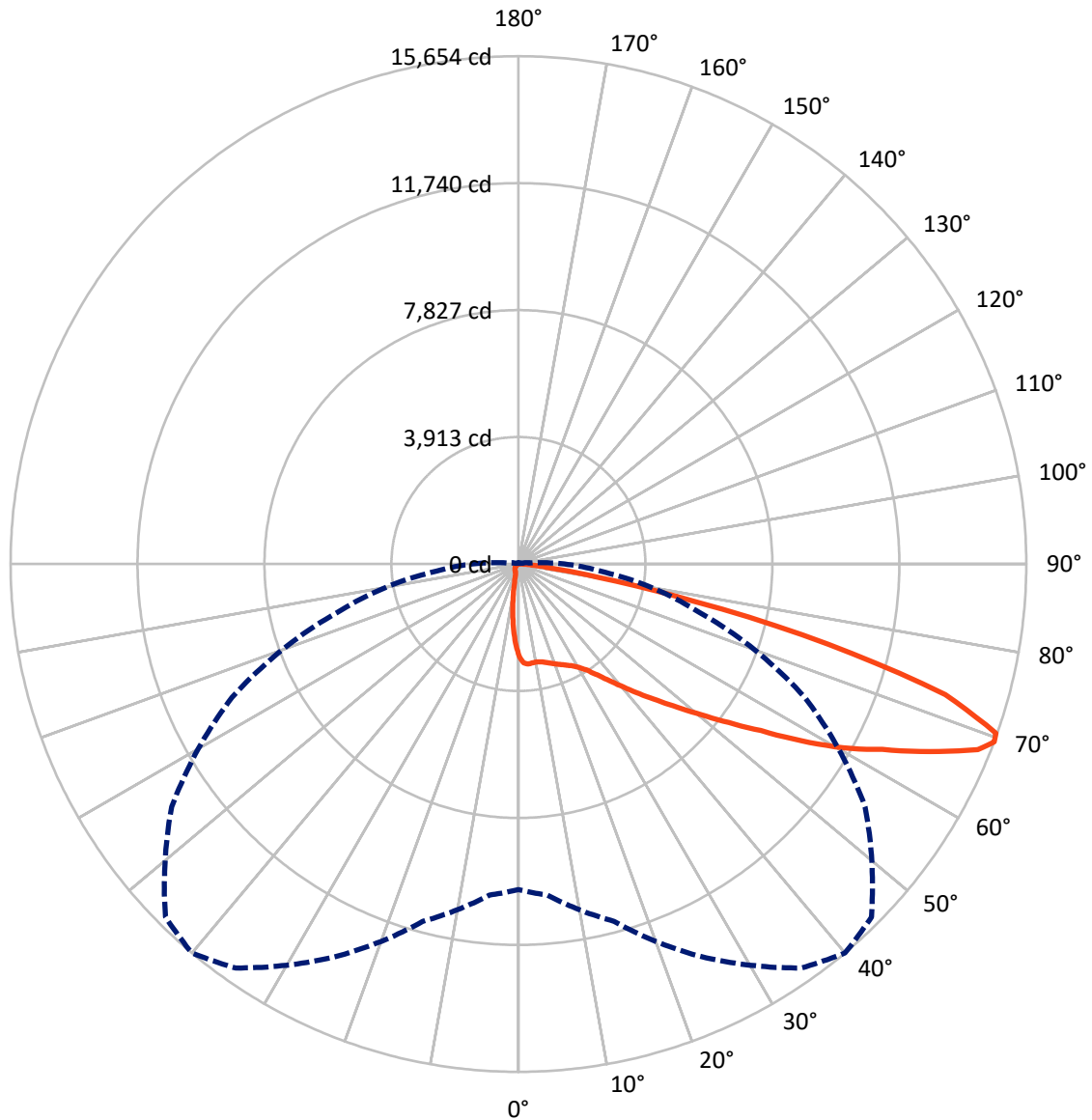


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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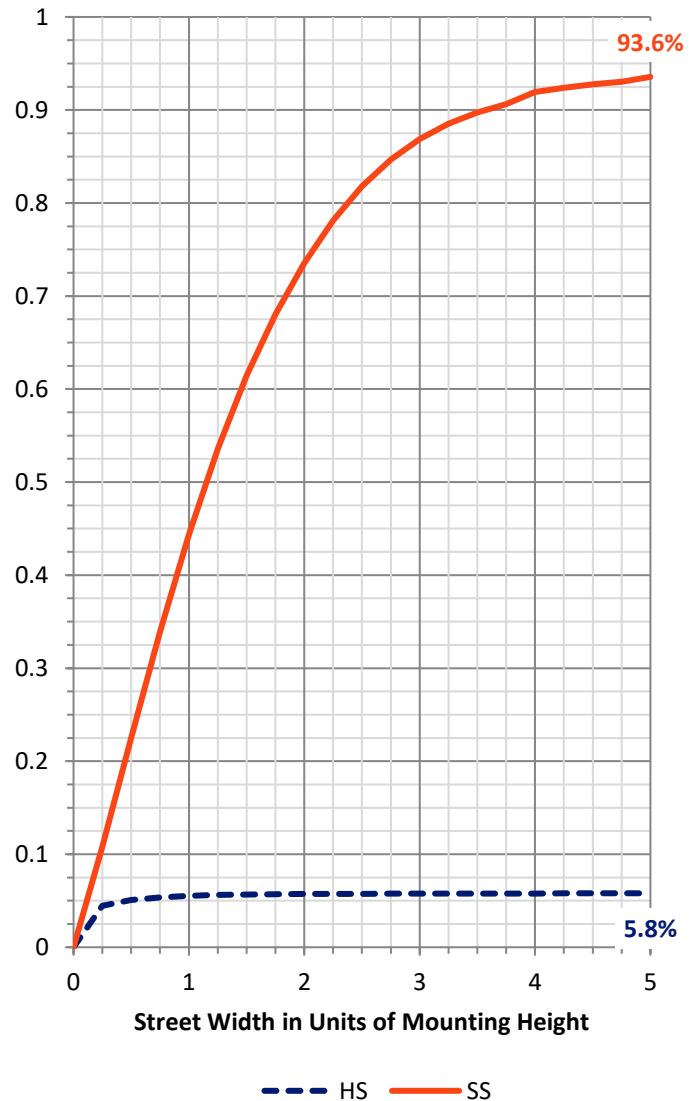
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1114.5	0.0	1114.5
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	17935.5	0.0	17935.5
	% Fixture	94.1	0.0	94.1
Total	Lumens	19050.0	0.0	19050.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.8	1.2
10°-20°	567.5	3.0
20°-30°	955.9	5.0
30°-40°	1564.8	8.2
40°-50°	2709.4	14.2
50°-60°	4267.5	22.4
60°-70°	5573.2	29.3
70°-80°	2870.4	15.1
80°-90°	310.5	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°	19050.0	100.0
0°-180°	19050.0	100.0



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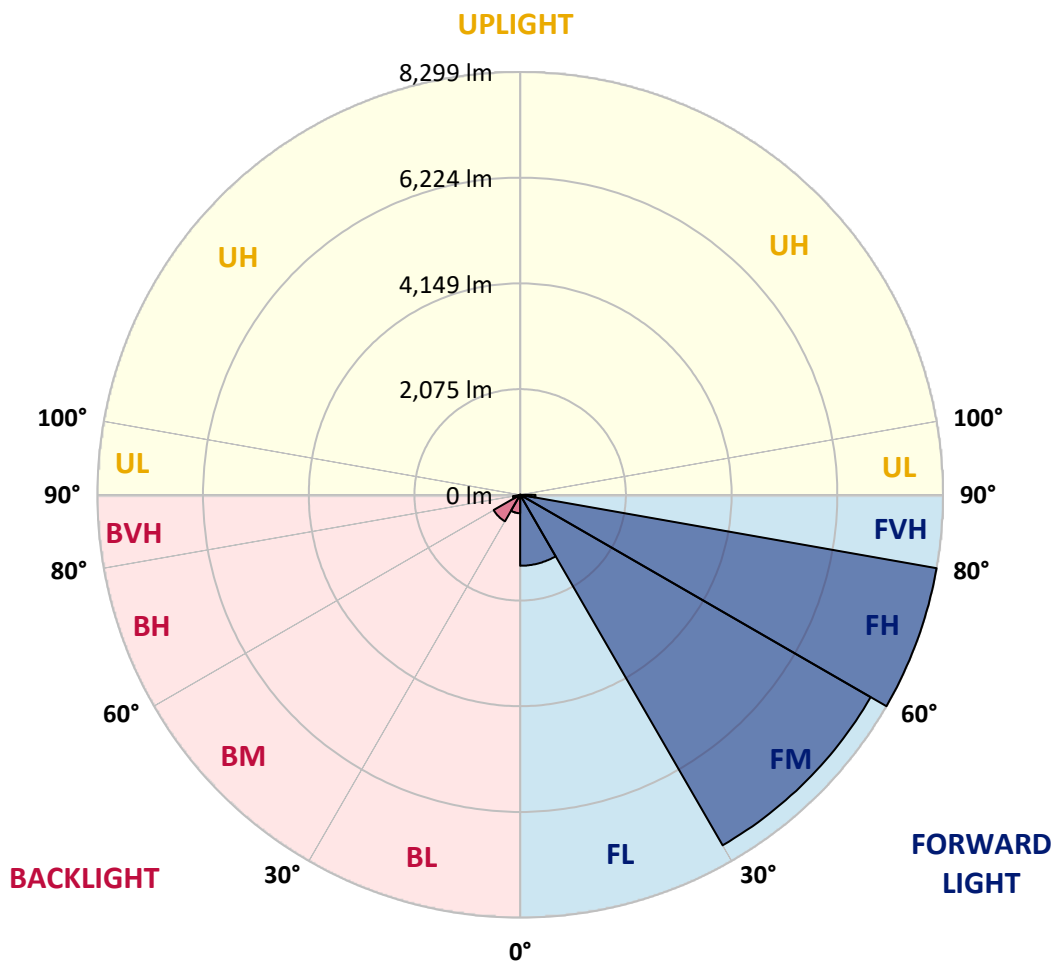
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1393.1	7.3			
FM	(30°-60°)	7942.6	41.7			
FH	(60°-80°)	8299.0	43.6			G4/12000
FVH	(80°-90°)	300.7	1.6			G3/500
BL	(0°-30°)	361.0	1.9	B1/500		
BM	(30°-60°)	599.0	3.1	B1/1000		
BH	(60°-80°)	144.7	0.8	B1/500		G1/500
BVH	(80°-90°)	9.7	0.1			G0/10
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°	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2
2.5°	3125.1	3108.1	3097.9	3084.3	3067.3	3052.5	3046.9	3004.9	2965.2	2910.8	2848.4
5°	3182.9	3177.3	3159.1	3141.0	3120.6	3097.9	3085.4	3035.5	2978.8	2899.5	2790.6
7.5°	3188.6	3181.8	3159.1	3134.2	3105.8	3078.6	3057.1	3007.2	2955.0	2874.5	2741.8
10°	3179.5	3171.6	3154.6	3127.4	3092.2	3066.2	3044.6	2997.0	2952.8	2880.2	2732.8
12.5°	3169.3	3161.4	3153.5	3139.9	3109.2	3091.1	3073.0	3027.6	2987.9	2926.7	2765.7
15°	3179.5	3175.0	3184.1	3178.4	3161.4	3145.5	3127.4	3086.6	3050.3	2999.2	2825.8
17.5°	3222.6	3222.6	3251.0	3254.4	3238.5	3215.8	3189.7	3148.9	3118.3	3075.2	2897.2
20°	3323.6	3320.2	3356.4	3363.2	3324.7	3289.5	3251.0	3201.1	3177.3	3150.1	2967.5
22.5°	3497.0	3481.2	3502.7	3495.9	3419.9	3365.5	3317.9	3256.7	3244.2	3231.7	3045.7
25°	3722.7	3713.6	3728.4	3661.5	3527.7	3454.0	3397.3	3328.1	3328.1	3340.6	3134.2
27.5°	4050.4	4016.4	3966.5	3848.6	3647.9	3553.7	3492.5	3418.8	3438.1	3484.6	3251.0
30°	4386.0	4348.6	4234.1	4052.7	3794.1	3695.5	3624.0	3546.9	3592.3	3677.3	3407.5
32.5°	4717.2	4675.2	4513.0	4284.0	4003.9	3905.3	3836.1	3751.0	3827.0	3969.9	3636.5
35°	5038.1	5000.6	4813.5	4543.7	4282.9	4201.2	4137.7	4064.0	4161.5	4361.1	3959.7
37.5°	5398.6	5357.8	5129.9	4837.4	4621.9	4562.9	4516.4	4442.7	4612.8	4905.4	4409.9
40°	5842.0	5772.8	5465.5	5174.1	5014.2	4985.9	4954.1	4943.9	5208.1	5613.0	5009.7
42.5°	6350.0	6236.6	5817.1	5529.0	5445.1	5465.5	5457.6	5503.0	5953.1	6492.9	5740.0
45°	6858.0	6711.7	6208.3	5907.8	5919.1	5990.6	6034.8	6216.2	6886.4	7502.1	6525.8
47.5°	7288.9	7144.9	6583.6	6317.1	6453.2	6593.8	6714.0	7057.6	7845.7	8495.4	7137.0
50°	7657.4	7521.4	6981.6	6767.3	7073.5	7300.3	7495.3	8004.4	8877.5	9251.7	7565.6
52.5°	7959.1	7868.4	7394.4	7283.2	7782.2	8114.4	8400.2	9010.2	9791.5	9866.3	7899.0
55°	8252.8	8188.1	7837.7	7896.7	8614.5	9066.9	9428.6	10077.2	10578.4	10378.9	8218.7
57.5°	8590.7	8531.7	8343.5	8674.6	9708.7	10278.0	10672.6	11022.9	11271.3	10902.8	8520.4
60°	8935.4	8901.4	8905.9	9538.6	10965.1	11511.7	11729.4	11820.1	11951.6	11396.0	8537.4
62.5°	9264.2	9328.9	9548.8	10500.2	12168.2	12587.8	12697.8	12787.3	12633.1	11474.3	7887.6
65°	9821.0	9926.4	10451.4	11787.2	13491.5	13940.6	14053.9	13746.7	12740.9	10462.8	6415.8
67.5°	10093.1	10285.9	11222.5	12986.9	14775.1	15274.1	15232.1	13809.0	11433.4	7978.3	4117.3
69°	10036.4	10241.7	11400.5	13354.3	15201.5	15653.9	15387.4	13045.9	9740.5	5779.6	2527.5
70°	9811.9	10019.4	11308.7	13340.7	15255.9	15614.2	15099.4	12103.6	8235.7	4226.2	1580.7
72.5°	8193.8	8372.9	10039.8	12058.2	14053.9	13762.5	12632.0	8385.4	4013.0	1150.9	356.1
75°	5043.7	5143.5	7203.9	9083.9	10614.7	9866.3	8416.0	4171.7	1196.3	325.4	197.3
77.5°	2664.7	2710.1	3943.8	5354.4	6728.7	5567.6	4313.5	1627.2	551.1	204.1	142.9
80°	1575.0	1609.0	2123.9	2448.2	2911.9	2432.3	1724.7	999.0	394.6	128.1	127.0
82.5°	901.5	923.0	1539.9	1360.7	1147.5	979.7	858.4	946.8	237.0	86.2	131.5
85°	331.1	335.6	866.3	1035.3	682.6	405.9	426.4	784.7	63.5	54.4	103.2
87.5°	154.2	150.8	445.6	633.9	399.1	257.4	332.2	172.4	24.9	35.2	28.3
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°	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2	2846.2
2.5°	2812.2	2770.2	2694.2	2616.0	2536.6	2475.4	2415.3	2367.6	2351.8	2322.3	2324.6
5°	2726.0	2648.9	2490.1	2329.1	2161.3	2022.9	1892.5	1787.1	1736.0	1683.9	1683.9
7.5°	2651.1	2538.9	2290.5	2028.6	1757.6	1529.7	1324.4	1170.2	1085.2	1017.1	1016.0
10°	2622.8	2470.8	2123.9	1748.5	1370.9	1060.2	816.4	659.9	579.4	527.3	525.0
12.5°	2635.3	2447.0	1995.7	1490.0	1016.0	681.5	472.8	371.9	337.9	322.0	322.0
15°	2671.5	2440.2	1867.6	1237.1	717.8	426.4	314.1	286.9	284.6	284.6	284.6
17.5°	2715.8	2442.5	1736.0	991.1	488.7	305.0	271.0	267.6	269.9	269.9	269.9
20°	2761.1	2443.6	1594.3	763.1	344.7	265.3	255.1	254.0	256.3	256.3	257.4
22.5°	2816.7	2449.3	1452.6	570.4	284.6	250.6	242.7	242.7	243.8	243.8	242.7
25°	2880.2	2460.6	1305.2	423.0	259.7	240.4	233.6	232.5	233.6	232.5	231.3
27.5°	2959.6	2476.5	1140.7	331.1	248.3	230.2	224.5	224.5	223.4	222.3	221.1
30°	3059.3	2494.6	955.9	281.2	237.0	221.1	215.4	214.3	213.2	210.9	210.9
32.5°	3211.3	2534.3	773.3	255.1	224.5	208.6	204.1	204.1	201.8	199.6	198.4
35°	3444.9	2612.6	610.1	239.3	210.9	195.0	189.4	189.4	187.1	186.0	184.8
37.5°	3768.1	2731.6	474.0	224.5	197.3	180.3	174.6	173.5	171.2	169.0	167.8
40°	4197.8	2879.1	373.1	210.9	183.7	165.6	161.0	158.8	154.2	150.8	150.8
42.5°	4737.6	3046.9	302.8	196.2	167.8	151.9	148.5	145.1	137.2	133.8	132.7
45°	5302.3	3197.7	256.3	179.2	151.9	138.3	136.1	130.4	120.2	116.8	116.8
47.5°	5709.3	3232.8	225.7	163.3	137.2	123.6	122.5	112.3	103.2	100.9	99.8
50°	5963.3	3163.7	200.7	147.4	123.6	110.0	106.6	94.1	88.4	86.2	85.0
52.5°	6134.6	3040.1	180.3	133.8	111.1	97.5	89.6	80.5	76.0	73.7	73.7
55°	6271.8	2865.4	159.9	121.3	100.9	87.3	76.0	69.2	64.6	62.4	62.4
57.5°	6310.3	2628.5	139.5	111.1	90.7	77.1	64.6	60.1	54.4	53.3	53.3
60°	6030.2	2201.0	123.6	98.7	81.6	66.9	56.7	51.0	45.4	44.2	43.1
62.5°	5292.1	1703.2	108.9	87.3	71.4	57.8	48.8	42.0	37.4	37.4	37.4
65°	4036.8	1141.9	95.3	76.0	62.4	48.8	42.0	34.0	31.8	31.8	32.9
67.5°	2416.4	621.4	81.6	64.6	53.3	40.8	35.2	29.5	28.3	29.5	29.5
69°	1416.3	365.1	73.7	57.8	46.5	36.3	30.6	26.1	28.3	29.5	29.5
70°	874.3	246.1	68.0	52.2	42.0	32.9	28.3	24.9	27.2	28.3	28.3
72.5°	243.8	127.0	54.4	40.8	34.0	27.2	22.7	22.7	26.1	27.2	27.2
75°	158.8	94.1	42.0	30.6	26.1	21.5	19.3	21.5	24.9	26.1	26.1
77.5°	131.5	77.1	34.0	24.9	21.5	20.4	18.1	19.3	22.7	23.8	23.8
80°	120.2	54.4	27.2	22.7	19.3	18.1	17.0	15.9	20.4	21.5	21.5
82.5°	114.5	43.1	23.8	20.4	18.1	15.9	14.7	15.9	18.1	19.3	20.4
85°	71.4	28.3	21.5	19.3	15.9	14.7	14.7	14.7	17.0	18.1	18.1
87.5°	26.1	22.7	19.3	15.9	13.6	13.6	13.6	13.6	14.7	17.0	17.0
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)