

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: STREETWORKS

Report Number: P268447

Luminaire Tested: **GAN-AF-04-LED-U-SL4-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268447
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: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-SL4-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA 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: 18573.5 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 258
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: 28.75 FT

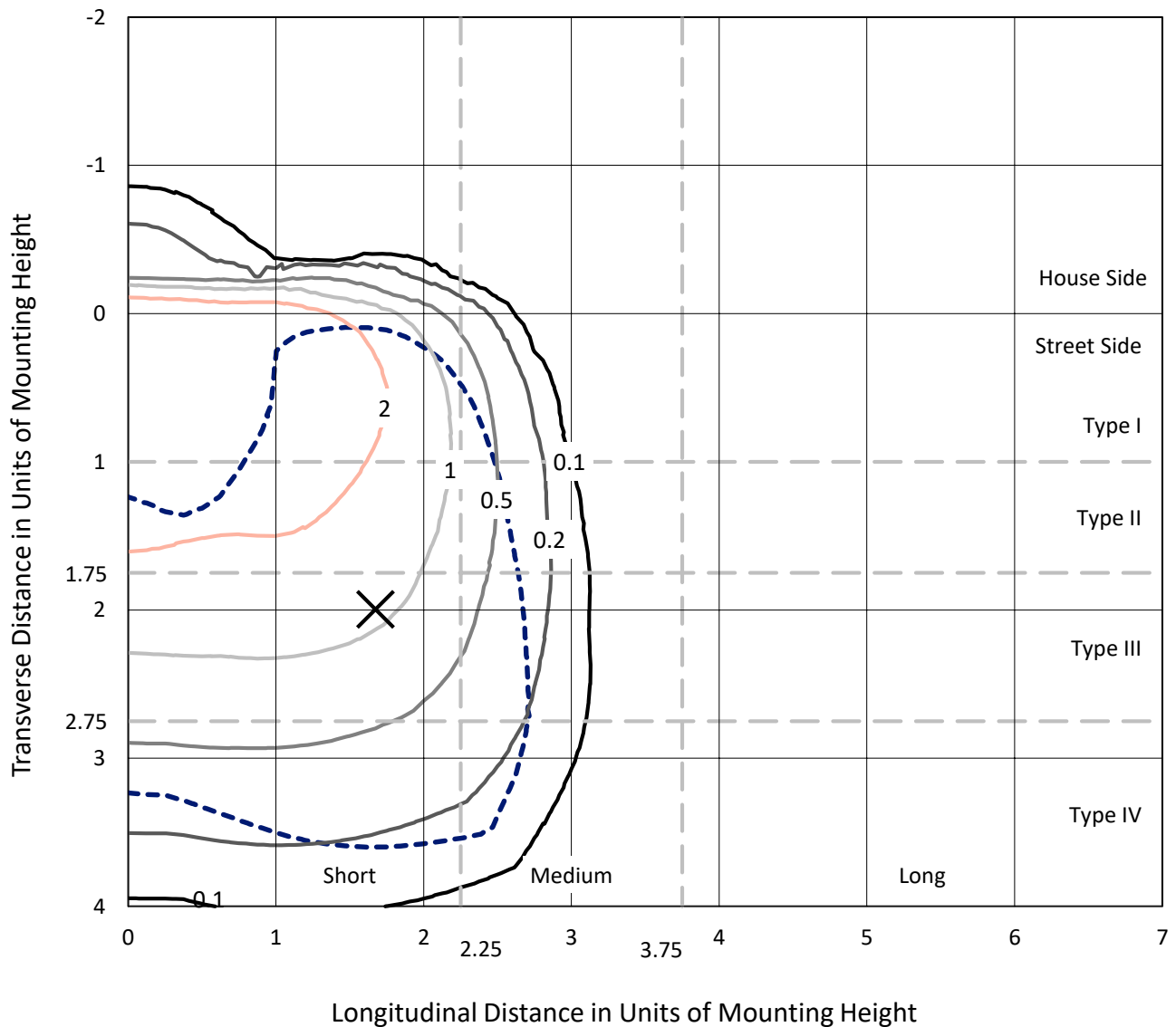


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

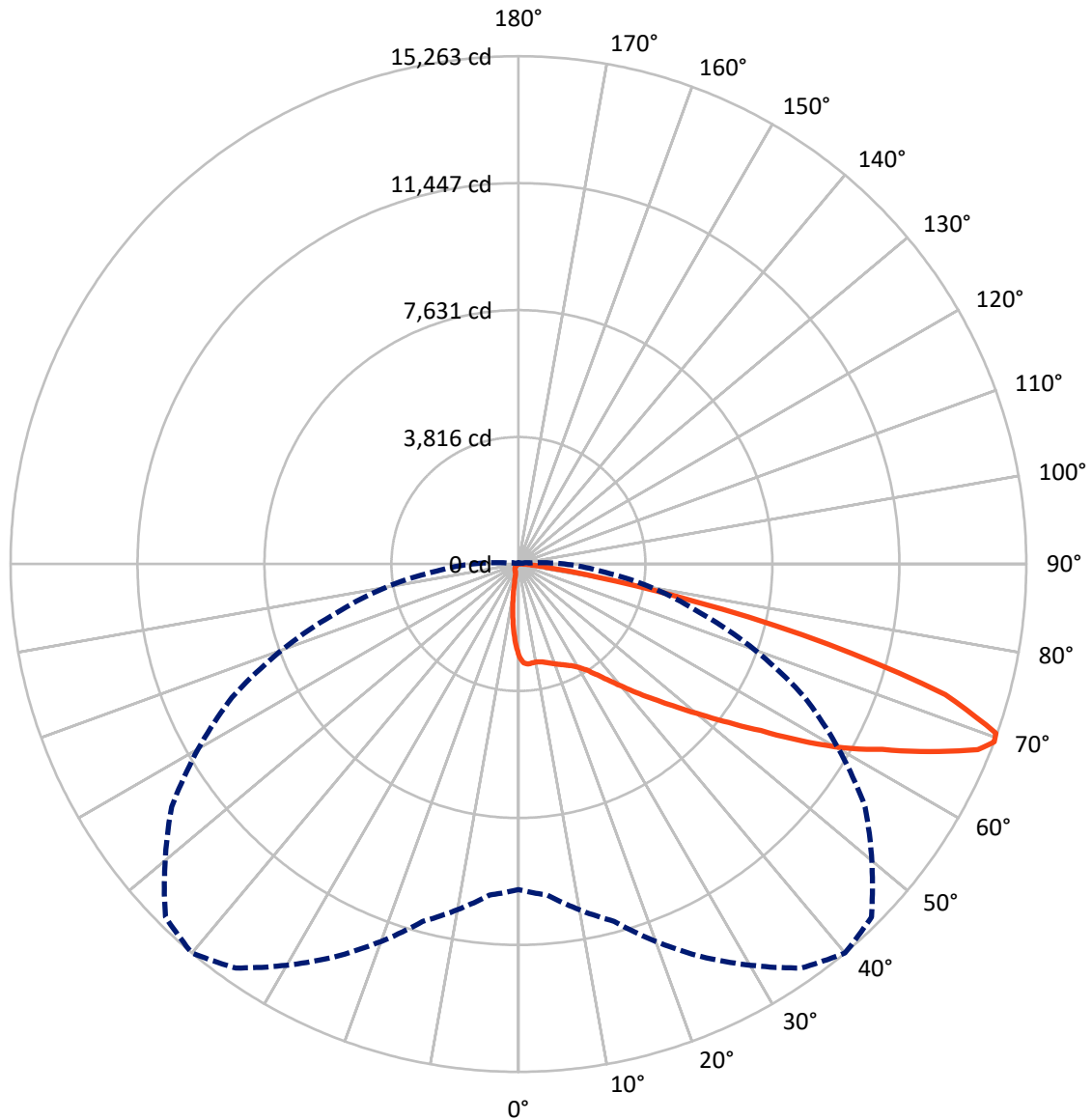


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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



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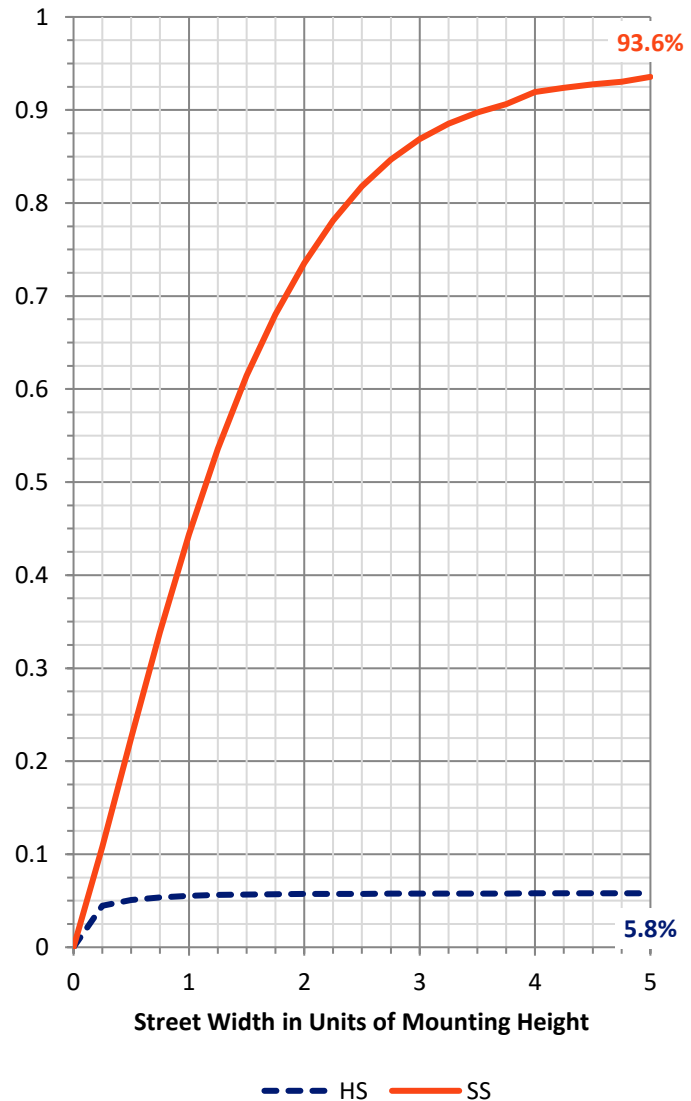
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1086.7	0.0	1086.7
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	17486.9	0.0	17486.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	18573.5	0.0	18573.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.0	1.2
10°-20°	553.3	3.0
20°-30°	932.0	5.0
30°-40°	1525.6	8.2
40°-50°	2641.6	14.2
50°-60°	4160.8	22.4
60°-70°	5433.9	29.3
70°-80°	2798.7	15.1
80°-90°	302.7	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°	18573.5	100.0
0°-180°	18573.5	100.0



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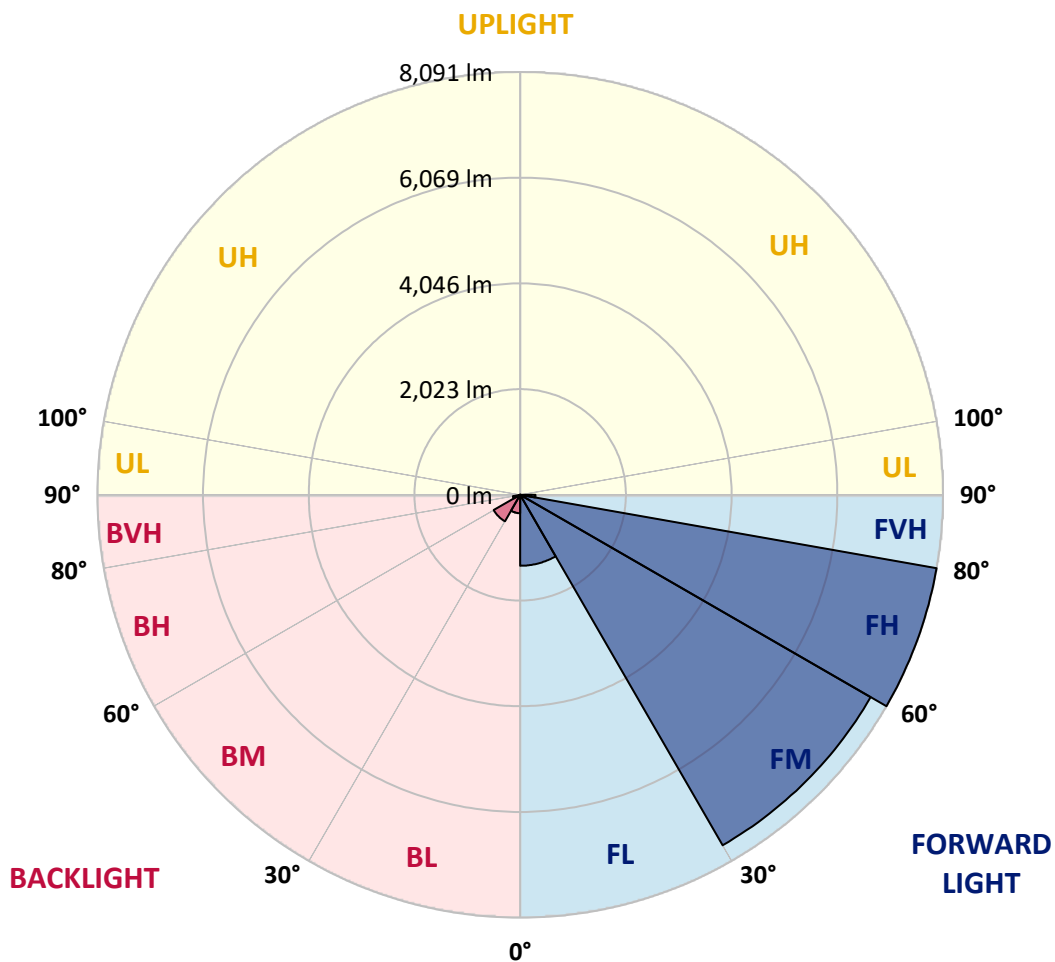
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1358.3	7.3			
FM	(30°-60°)	7744.0	41.7			
FH	(60°-80°)	8091.4	43.6			G4/12000
FVH	(80°-90°)	293.2	1.6			G3/500
BL	(0°-30°)	352.0	1.9	B1/500		
BM	(30°-60°)	584.1	3.1	B1/1000		
BH	(60°-80°)	141.1	0.8	B1/500		G1/500
BVH	(80°-90°)	9.5	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°	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0
2.5°	3047.0	3030.3	3020.5	3007.2	2990.5	2976.3	2970.7	2929.7	2891.0	2837.9	2777.2
5°	3103.4	3097.9	3080.1	3062.4	3042.5	3020.5	3008.2	2959.6	2904.3	2827.0	2720.7
7.5°	3108.9	3102.2	3080.1	3055.9	3028.1	3001.6	2980.7	2932.0	2881.1	2802.6	2673.3
10°	3100.1	3092.2	3075.6	3049.1	3014.9	2989.5	2968.4	2922.0	2878.9	2808.1	2664.5
12.5°	3090.1	3082.4	3074.5	3061.3	3031.5	3013.9	2996.0	2951.9	2913.2	2853.5	2696.5
15°	3100.1	3095.6	3104.5	3099.0	3082.4	3066.9	3049.1	3009.3	2974.0	2924.3	2755.1
17.5°	3142.0	3142.0	3169.7	3173.1	3157.5	3135.4	3110.0	3070.1	3040.4	2998.4	2824.7
20°	3240.5	3237.1	3272.4	3279.2	3241.5	3207.3	3169.7	3121.0	3097.9	3071.2	2893.4
22.5°	3409.5	3394.1	3415.0	3408.4	3334.4	3281.2	3234.8	3175.1	3163.0	3150.9	2969.5
25°	3629.6	3620.8	3635.1	3569.9	3439.4	3367.6	3312.3	3244.9	3244.9	3257.1	3055.9
27.5°	3949.0	3915.9	3867.4	3752.3	3556.6	3464.9	3405.1	3333.3	3352.0	3397.4	3169.7
30°	4276.3	4239.9	4128.3	3951.4	3699.2	3603.0	3533.5	3458.2	3502.4	3585.3	3322.2
32.5°	4599.2	4558.3	4400.2	4176.8	3903.8	3807.6	3740.2	3657.2	3731.3	3870.5	3545.6
35°	4912.0	4875.6	4693.1	4430.0	4175.7	4096.1	4034.2	3962.3	4057.5	4252.0	3860.6
37.5°	5263.6	5223.9	5001.7	4716.5	4506.3	4448.9	4403.5	4331.6	4497.5	4782.7	4299.6
40°	5696.0	5628.5	5328.8	5044.7	4888.8	4861.2	4830.2	4820.2	5077.8	5472.6	4884.4
42.5°	6191.2	6080.6	5671.5	5390.8	5309.0	5328.8	5321.1	5365.3	5804.3	6330.4	5596.4
45°	6686.5	6543.9	6053.0	5760.0	5771.2	5840.7	5883.9	6060.8	6714.1	7314.4	6362.5
47.5°	7106.6	6966.1	6419.0	6159.0	6291.8	6428.9	6546.0	6881.0	7649.4	8282.9	6958.5
50°	7466.0	7333.3	6806.9	6598.1	6896.6	7117.7	7307.8	7804.3	8655.4	9020.4	7376.4
52.5°	7760.0	7671.5	7209.4	7101.1	7587.5	7911.5	8190.0	8784.9	9546.6	9619.6	7701.3
55°	8046.4	7983.3	7641.7	7699.3	8399.1	8840.1	9192.9	9825.2	10313.9	10119.2	8013.2
57.5°	8375.7	8318.3	8134.8	8457.6	9465.9	10021.0	10405.6	10747.2	10989.3	10630.1	8307.3
60°	8711.9	8678.7	8683.1	9300.1	10690.9	11223.8	11436.1	11524.4	11652.8	11111.0	8323.9
62.5°	9032.5	9095.6	9310.0	10237.7	11863.8	12273.0	12380.3	12467.5	12317.2	11187.3	7690.4
65°	9575.4	9678.2	10190.1	11492.5	13154.2	13591.9	13702.4	13402.8	12422.2	10201.2	6255.3
67.5°	9840.8	10028.7	10941.9	12662.1	14405.6	14892.0	14851.1	13463.6	11147.4	7778.9	4014.3
69°	9785.3	9985.5	11115.4	13020.4	14821.2	15262.5	15002.7	12719.6	9496.8	5635.1	2464.3
70°	9566.5	9768.8	11025.8	13007.1	14874.3	15223.8	14721.9	11800.9	8029.8	4120.4	1541.1
72.5°	7988.8	8163.5	9788.7	11756.7	13702.4	13418.3	12316.0	8175.7	3912.6	1122.2	347.1
75°	4917.6	5014.9	7023.7	8856.7	10349.3	9619.6	8205.6	4067.3	1166.4	317.3	192.3
77.5°	2598.1	2642.4	3845.1	5220.5	6560.4	5428.4	4205.5	1586.4	537.2	199.1	139.2
80°	1535.7	1568.8	2070.8	2386.9	2839.2	2371.4	1681.5	974.0	384.7	125.0	123.8
82.5°	878.9	899.9	1501.3	1326.6	1118.7	955.2	837.0	923.2	231.0	84.0	128.3
85°	322.9	327.3	844.6	1009.3	665.6	395.9	415.6	765.0	62.0	53.1	100.6
87.5°	150.3	147.1	434.5	618.0	389.1	250.9	323.8	168.1	24.3	34.2	27.7
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°	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0
2.5°	2741.7	2700.9	2626.9	2550.6	2473.2	2413.4	2354.8	2308.5	2293.0	2264.2	2266.5
5°	2657.7	2582.5	2427.8	2270.8	2107.2	1972.4	1845.2	1742.4	1692.6	1641.8	1641.8
7.5°	2584.9	2475.4	2233.2	1977.9	1713.6	1491.5	1291.4	1140.9	1058.1	991.6	990.7
10°	2557.1	2409.1	2070.8	1704.9	1336.7	1033.7	796.0	643.5	564.9	514.1	511.9
12.5°	2569.3	2385.8	1945.8	1452.6	990.7	664.4	461.0	362.6	329.5	314.0	314.0
15°	2604.7	2379.3	1820.9	1206.2	699.8	415.6	306.2	279.7	277.4	277.4	277.4
17.5°	2647.8	2381.3	1692.6	966.2	476.6	297.3	264.2	260.9	263.2	263.2	263.2
20°	2692.1	2382.6	1554.4	744.1	336.1	258.7	248.7	247.7	249.9	249.9	250.9
22.5°	2746.3	2388.1	1416.3	556.1	277.4	244.2	236.7	236.7	237.7	237.7	236.7
25°	2808.1	2399.2	1272.4	412.4	253.2	234.4	227.7	226.6	227.7	226.6	225.6
27.5°	2885.5	2414.6	1112.2	322.9	242.2	224.4	218.8	218.8	217.7	216.8	215.7
30°	2982.8	2432.3	932.0	274.3	231.0	215.7	210.1	208.9	207.9	205.6	205.6
32.5°	3131.0	2471.0	753.9	248.7	218.8	203.5	199.1	199.1	196.8	194.7	193.4
35°	3358.8	2547.2	594.8	233.3	205.6	190.1	184.6	184.6	182.4	181.3	180.2
37.5°	3673.8	2663.4	462.1	218.8	192.3	175.8	170.3	169.2	166.9	164.7	163.6
40°	4092.8	2807.1	363.8	205.6	179.1	161.4	157.1	154.8	150.3	147.1	147.1
42.5°	4619.1	2970.7	295.3	191.2	163.6	148.1	144.8	141.6	133.8	130.4	129.4
45°	5169.7	3117.7	249.9	174.7	148.1	134.8	132.7	127.1	117.1	113.8	113.8
47.5°	5566.5	3152.1	220.1	159.2	133.8	120.6	119.5	109.5	100.6	98.5	97.2
50°	5814.2	3084.5	195.7	143.6	120.6	107.3	103.9	91.7	86.2	84.0	83.0
52.5°	5981.2	2964.0	175.8	130.4	108.3	95.1	87.3	78.5	74.1	71.9	71.9
55°	6114.9	2793.8	155.9	118.2	98.5	85.1	74.1	67.5	63.1	60.8	60.8
57.5°	6152.5	2562.8	136.1	108.3	88.5	75.2	63.1	58.6	53.1	51.9	51.9
60°	5879.4	2146.0	120.6	96.2	79.6	65.2	55.2	49.8	44.2	43.1	42.0
62.5°	5159.8	1660.5	106.1	85.1	69.7	56.4	47.5	41.0	36.6	36.6	36.6
65°	3935.8	1113.3	92.9	74.1	60.8	47.5	41.0	33.1	30.9	30.9	32.1
67.5°	2356.0	605.8	79.6	63.1	51.9	39.9	34.2	28.7	27.7	28.7	28.7
69°	1380.9	356.0	71.9	56.4	45.4	35.4	29.9	25.4	27.7	28.7	28.7
70°	852.4	239.8	66.4	50.8	41.0	32.1	27.7	24.3	26.5	27.7	27.7
72.5°	237.7	123.8	53.1	39.9	33.1	26.5	22.1	22.1	25.4	26.5	26.5
75°	154.8	91.7	41.0	29.9	25.4	21.0	18.8	21.0	24.3	25.4	25.4
77.5°	128.3	75.2	33.1	24.3	21.0	19.9	17.6	18.8	22.1	23.3	23.3
80°	117.1	53.1	26.5	22.1	18.8	17.6	16.6	15.5	19.9	21.0	21.0
82.5°	111.7	42.0	23.3	19.9	17.6	15.5	14.4	15.5	17.6	18.8	19.9
85°	69.7	27.7	21.0	18.8	15.5	14.4	14.4	14.4	16.6	17.6	17.6
87.5°	25.4	22.1	18.8	15.5	13.2	13.2	13.2	13.2	14.4	16.6	16.6
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)