

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: P191225

Luminaire Tested: **GAN-AF-07-LED-U-SL4-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191225
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-07-LED-U-SL4-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 38345.3 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

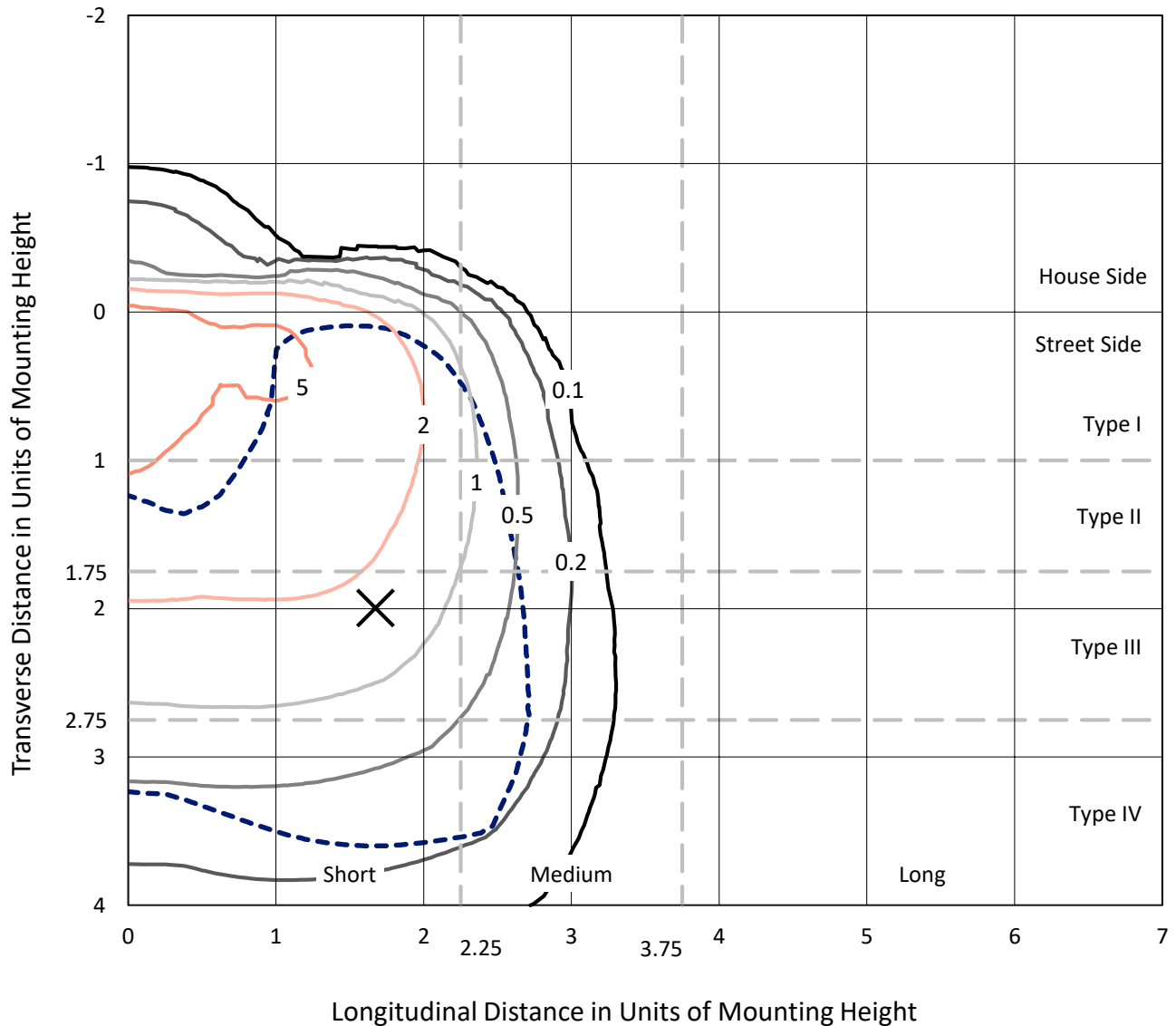
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

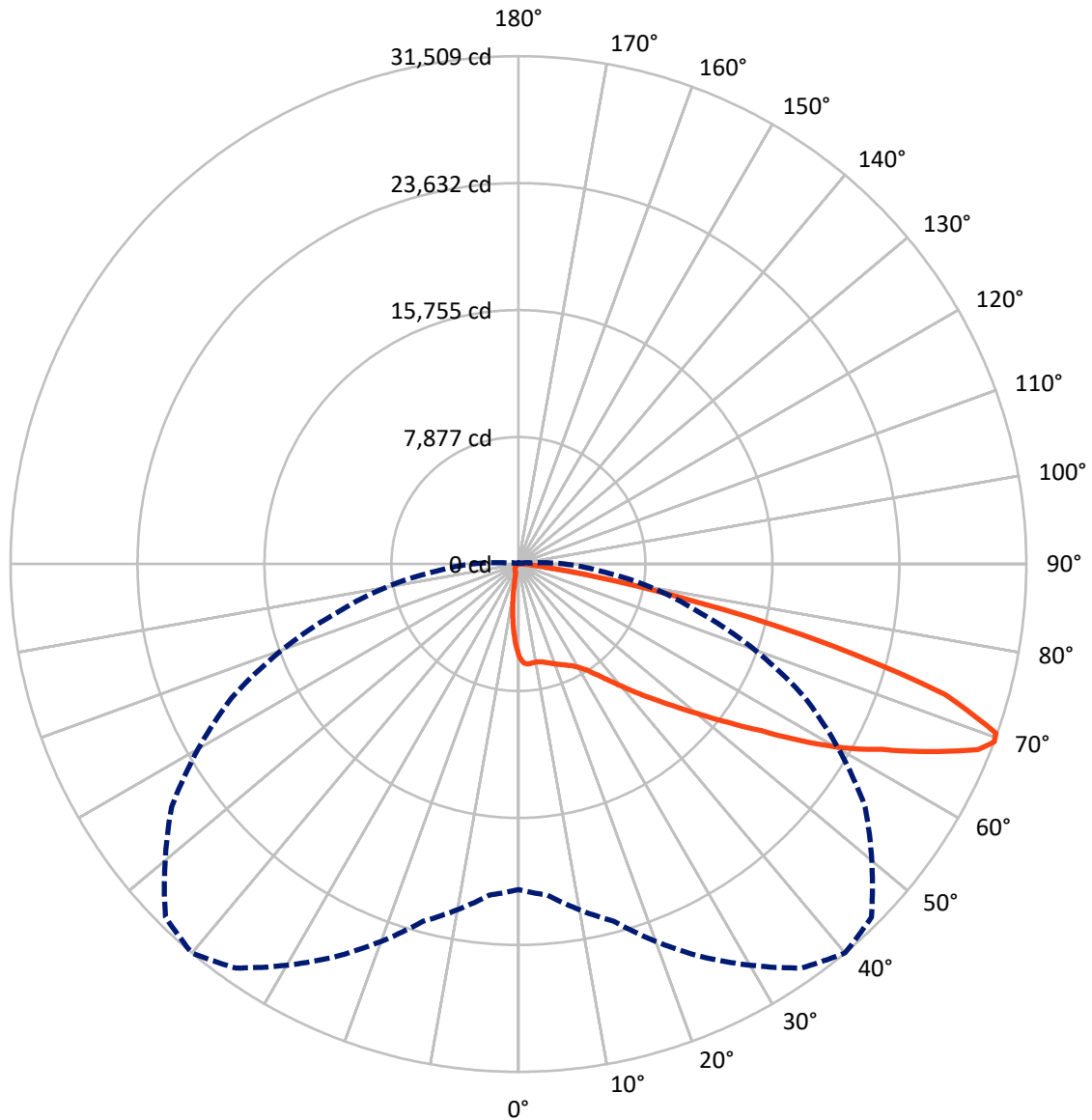
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 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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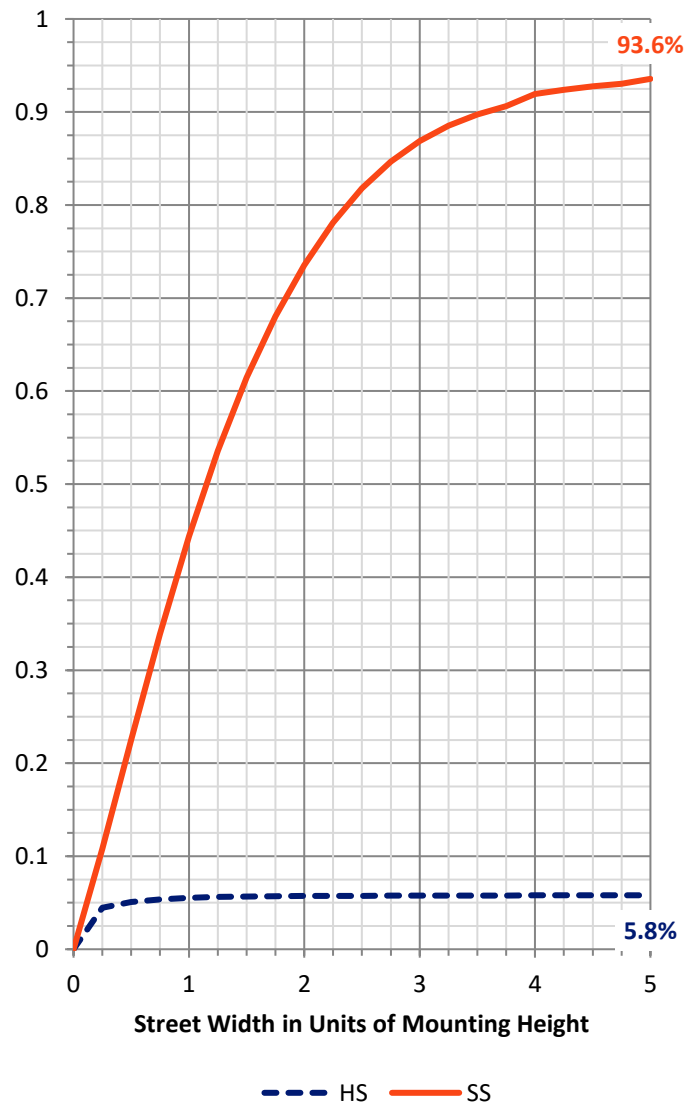
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2243.4	0.0	2243.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	36101.9	0.0	36101.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	38345.3	0.0	38345.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.5	1.2
10°-20°	1142.3	3.0
20°-30°	1924.0	5.0
30°-40°	3149.7	8.2
40°-50°	5453.6	14.2
50°-60°	8590.0	22.4
60°-70°	11218.2	29.3
70°-80°	5777.9	15.1
80°-90°	625.0	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°	38345.3	100.0
0°-180°	38345.3	100.0



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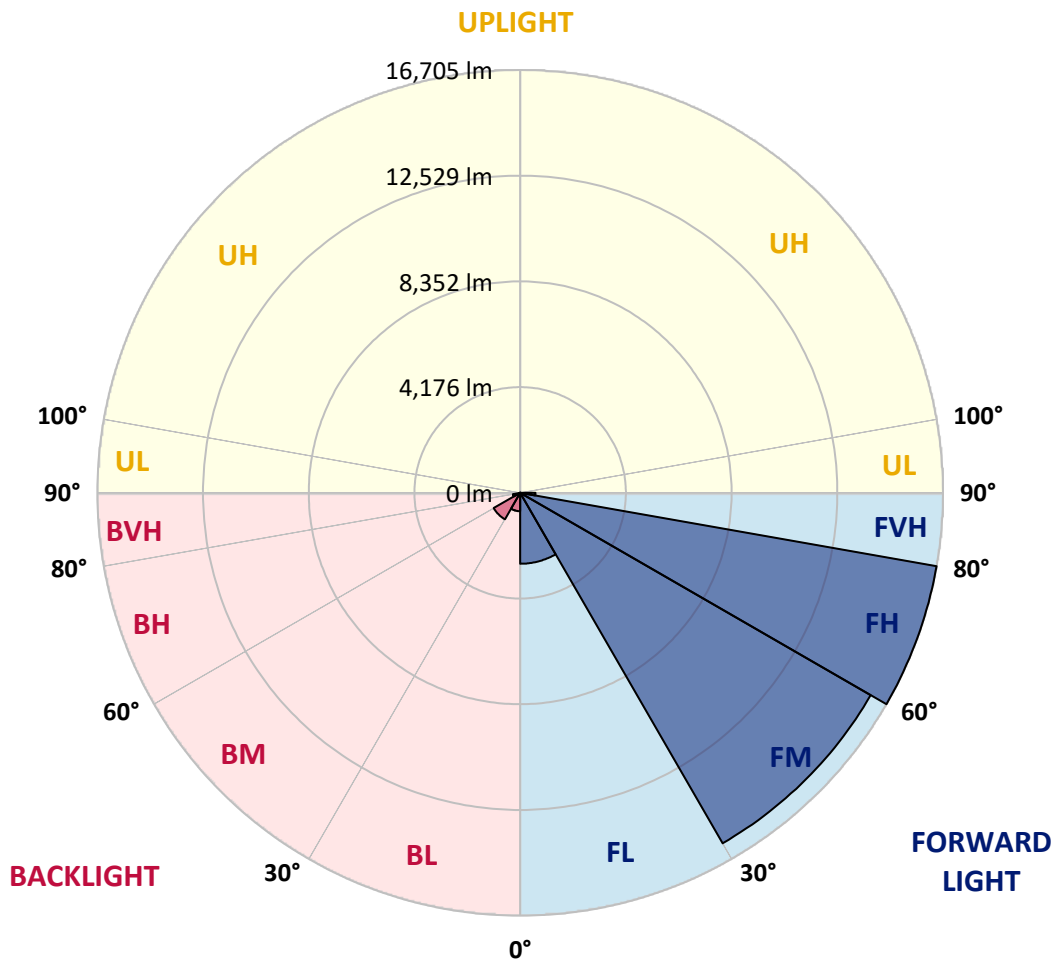
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2804.1	7.3			
FM	(30°-60°)	15987.6	41.7			
FH	(60°-80°)	16704.8	43.6			G5
FVH	(80°-90°)	605.4	1.6			G4/750
BL	(0°-30°)	726.7	1.9	B2/1000		
BM	(30°-60°)	1205.8	3.1	B2/2500		
BH	(60°-80°)	291.3	0.8	B1/500		G1/500
BVH	(80°-90°)	19.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5729.0	5729.0	5729.0	5729.0	5729.0	5729.0	5729.0	5729.0	5729.0	5729.0	5729.0
2.5°	6290.4	6256.3	6235.7	6208.3	6174.0	6144.4	6133.0	6048.5	5968.6	5859.1	5733.5
5°	6406.8	6395.5	6359.0	6322.4	6281.3	6235.7	6210.5	6110.2	5996.0	5836.2	5617.1
7.5°	6418.3	6404.6	6359.0	6308.7	6251.7	6196.9	6153.6	6053.1	5948.2	5786.0	5519.0
10°	6400.0	6384.0	6349.9	6295.0	6224.2	6171.8	6128.4	6032.5	5943.5	5797.5	5500.7
12.5°	6379.5	6363.5	6347.5	6320.1	6258.5	6222.0	6185.5	6094.2	6014.3	5891.1	5566.9
15°	6400.0	6390.9	6409.2	6397.7	6363.5	6331.6	6295.0	6212.9	6139.9	6037.1	5687.9
17.5°	6486.7	6486.7	6543.8	6550.7	6518.8	6473.0	6420.6	6338.4	6276.8	6190.1	5831.7
20°	6689.9	6683.0	6756.1	6769.8	6692.1	6621.5	6543.8	6443.4	6395.5	6340.7	5973.2
22.5°	7039.1	7007.2	7050.5	7036.9	6883.9	6774.4	6678.5	6555.3	6530.1	6505.0	6130.7
25°	7493.3	7475.1	7504.8	7370.1	7100.7	6952.4	6838.2	6699.0	6699.0	6724.2	6308.7
27.5°	8152.9	8084.5	7984.0	7746.7	7342.6	7153.3	7030.0	6881.6	6920.5	7014.0	6543.8
30°	8828.6	8753.3	8522.7	8157.5	7637.1	7438.6	7294.8	7139.6	7230.8	7402.1	6858.8
32.5°	9495.0	9410.6	9084.2	8623.2	8059.4	7860.8	7721.5	7550.4	7703.3	7990.9	7319.8
35°	10141.0	10065.6	9689.1	9145.8	8620.9	8456.5	8328.8	8180.3	8376.6	8778.4	7970.3
37.5°	10866.8	10784.7	10325.9	9737.0	9303.3	9184.7	9091.1	8942.7	9285.0	9873.9	8876.6
40°	11759.2	11620.0	11001.5	10414.9	10093.0	10036.0	9972.1	9951.6	10483.4	11298.2	10083.9
42.5°	12781.8	12553.6	11709.0	11129.3	10960.4	11001.5	10985.5	11076.8	11982.9	13069.4	11553.8
45°	13804.3	13509.9	12496.5	11891.6	11914.5	12058.2	12147.2	12512.4	13861.4	15100.8	13135.6
47.5°	14671.7	14381.8	13252.0	12715.6	12989.5	13272.6	13514.5	14206.0	15792.4	17100.3	14365.8
50°	15413.5	15139.6	14053.1	13621.7	14238.0	14694.5	15087.1	16111.9	17869.4	18622.6	15228.6
52.5°	16020.6	15838.0	14883.9	14660.3	15664.5	16333.4	16908.5	18136.5	19709.1	19859.8	15899.6
55°	16611.8	16481.7	15776.4	15895.1	17339.8	18250.6	18978.7	20284.3	21293.1	20891.4	16543.3
57.5°	17292.0	17173.3	16794.4	17460.8	19542.5	20688.3	21482.6	22187.8	22687.7	21945.9	17150.5
60°	17985.8	17917.4	17926.5	19200.1	22071.4	23171.6	23609.8	23792.4	24057.1	22938.8	17184.7
62.5°	18647.8	18777.8	19220.6	21135.6	24493.1	25337.7	25559.0	25739.4	25428.9	23096.3	15876.8
65°	19768.4	19980.7	21037.5	23726.2	27156.8	28060.7	28288.9	27670.3	25645.8	21060.3	12914.1
67.5°	20316.2	20704.2	22589.5	26141.1	29740.6	30744.8	30660.4	27795.8	23014.1	16059.4	8287.6
69°	20202.1	20615.2	22947.9	26880.6	30598.7	31509.4	30973.0	26259.8	19606.4	11633.7	5087.6
70°	19750.2	20167.9	22763.0	26853.2	30708.3	31429.6	30393.3	24363.0	16577.5	8506.8	3181.8
72.5°	16493.1	16853.7	20208.9	24271.8	28288.9	27702.3	25426.7	16878.8	8077.6	2316.7	716.7
75°	10152.4	10353.3	14500.5	18284.8	21366.2	19859.8	16940.5	8397.2	2408.0	655.1	397.1
77.5°	5363.8	5455.1	7938.4	10777.8	13544.2	11206.9	8682.5	3275.4	1109.3	410.8	287.6
80°	3170.3	3238.9	4275.0	4927.9	5861.4	4895.8	3471.6	2010.8	794.3	257.9	255.6
82.5°	1814.5	1857.9	3099.5	2739.0	2309.8	1972.0	1727.9	1905.9	477.0	173.5	264.7
85°	666.5	675.7	1743.8	2083.9	1374.0	817.1	858.3	1579.4	127.9	109.6	207.7
87.5°	310.5	303.6	897.0	1275.9	803.4	518.1	668.8	347.0	50.2	70.8	57.1
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°	5729.0	5729.0	5729.0	5729.0	5729.0	5729.0	5729.0	5729.0	5729.0	5729.0	5729.0
2.5°	5660.5	5576.1	5423.2	5265.6	5105.9	4982.6	4861.7	4765.8	4733.8	4674.5	4679.1
5°	5487.0	5331.8	5012.3	4688.2	4350.4	4072.0	3809.5	3597.2	3494.5	3389.4	3389.4
7.5°	5336.4	5110.5	4610.5	4083.3	3537.8	3079.1	2665.9	2355.5	2184.3	2047.3	2045.1
10°	5279.3	4973.5	4275.0	3519.6	2759.5	2134.1	1643.4	1328.4	1166.4	1061.3	1056.8
12.5°	5304.4	4925.5	4017.1	2999.2	2045.1	1371.8	951.8	748.7	680.2	648.2	648.2
15°	5377.4	4911.9	3759.2	2490.2	1444.8	858.3	632.3	577.5	572.9	572.9	572.9
17.5°	5466.5	4916.4	3494.5	1994.9	983.8	614.0	545.5	538.7	543.2	543.2	543.2
20°	5557.8	4918.8	3209.1	1536.1	693.9	534.1	513.5	511.3	515.9	515.9	518.1
22.5°	5669.6	4930.1	2923.8	1148.1	572.9	504.4	488.5	488.5	490.7	490.7	488.5
25°	5797.5	4952.9	2627.1	851.4	522.7	483.9	470.1	467.9	470.1	467.9	465.6
27.5°	5957.3	4984.9	2296.1	666.5	499.8	463.3	451.9	451.9	449.7	447.3	445.1
30°	6158.1	5021.5	1924.1	566.1	477.0	445.1	433.6	431.4	429.1	424.5	424.5
32.5°	6463.9	5101.4	1556.6	513.5	451.9	420.0	410.8	410.8	406.3	401.7	399.5
35°	6934.2	5258.8	1228.0	481.6	424.5	392.6	381.2	381.2	376.7	374.3	372.0
37.5°	7584.7	5498.5	954.1	451.9	397.1	362.9	351.5	349.2	344.6	340.1	337.8
40°	8449.7	5795.2	750.9	424.5	369.8	333.3	324.1	319.6	310.5	303.6	303.6
42.5°	9536.2	6133.0	609.4	394.9	337.8	305.9	299.0	292.2	276.2	269.3	267.1
45°	10672.9	6436.5	515.9	360.6	305.9	278.4	273.9	262.5	241.9	235.1	235.1
47.5°	11492.2	6507.3	454.2	328.7	276.2	248.8	246.5	226.0	207.7	203.2	200.9
50°	12003.5	6368.1	404.0	296.8	248.8	221.4	214.5	189.5	178.0	173.5	171.1
52.5°	12348.1	6119.3	362.9	269.3	223.7	196.3	180.3	162.0	152.9	148.3	148.3
55°	12624.3	5767.8	321.8	244.2	203.2	175.7	152.9	139.2	130.1	125.5	125.5
57.5°	12701.9	5290.8	280.7	223.7	182.6	155.2	130.1	121.0	109.6	107.3	107.3
60°	12138.1	4430.3	248.8	198.6	164.4	134.6	114.2	102.7	91.3	89.0	86.7
62.5°	10652.3	3428.2	219.1	175.7	143.8	116.4	98.1	84.5	75.3	75.3	75.3
65°	8125.6	2298.5	191.7	152.9	125.5	98.1	84.5	68.4	63.9	63.9	66.2
67.5°	4863.9	1250.8	164.4	130.1	107.3	82.1	70.8	59.3	57.1	59.3	59.3
69°	2850.8	735.0	148.3	116.4	93.6	73.0	61.6	52.5	57.1	59.3	59.3
70°	1759.8	495.3	137.0	105.0	84.5	66.2	57.1	50.2	54.8	57.1	57.1
72.5°	490.7	255.6	109.6	82.1	68.4	54.8	45.6	45.6	52.5	54.8	54.8
75°	319.6	189.5	84.5	61.6	52.5	43.4	38.8	43.4	50.2	52.5	52.5
77.5°	264.7	155.2	68.4	50.2	43.4	41.1	36.5	38.8	45.6	48.0	48.0
80°	241.9	109.6	54.8	45.6	38.8	36.5	34.3	31.9	41.1	43.4	43.4
82.5°	230.6	86.7	48.0	41.1	36.5	31.9	29.7	31.9	36.5	38.8	41.1
85°	143.8	57.1	43.4	38.8	31.9	29.7	29.7	29.7	34.3	36.5	36.5
87.5°	52.5	45.6	38.8	31.9	27.4	27.4	27.4	27.4	29.7	34.3	34.3
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)