

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: P191945

Luminaire Tested: **GAN-AF-07-LED-U-SL3-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7050-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39458 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

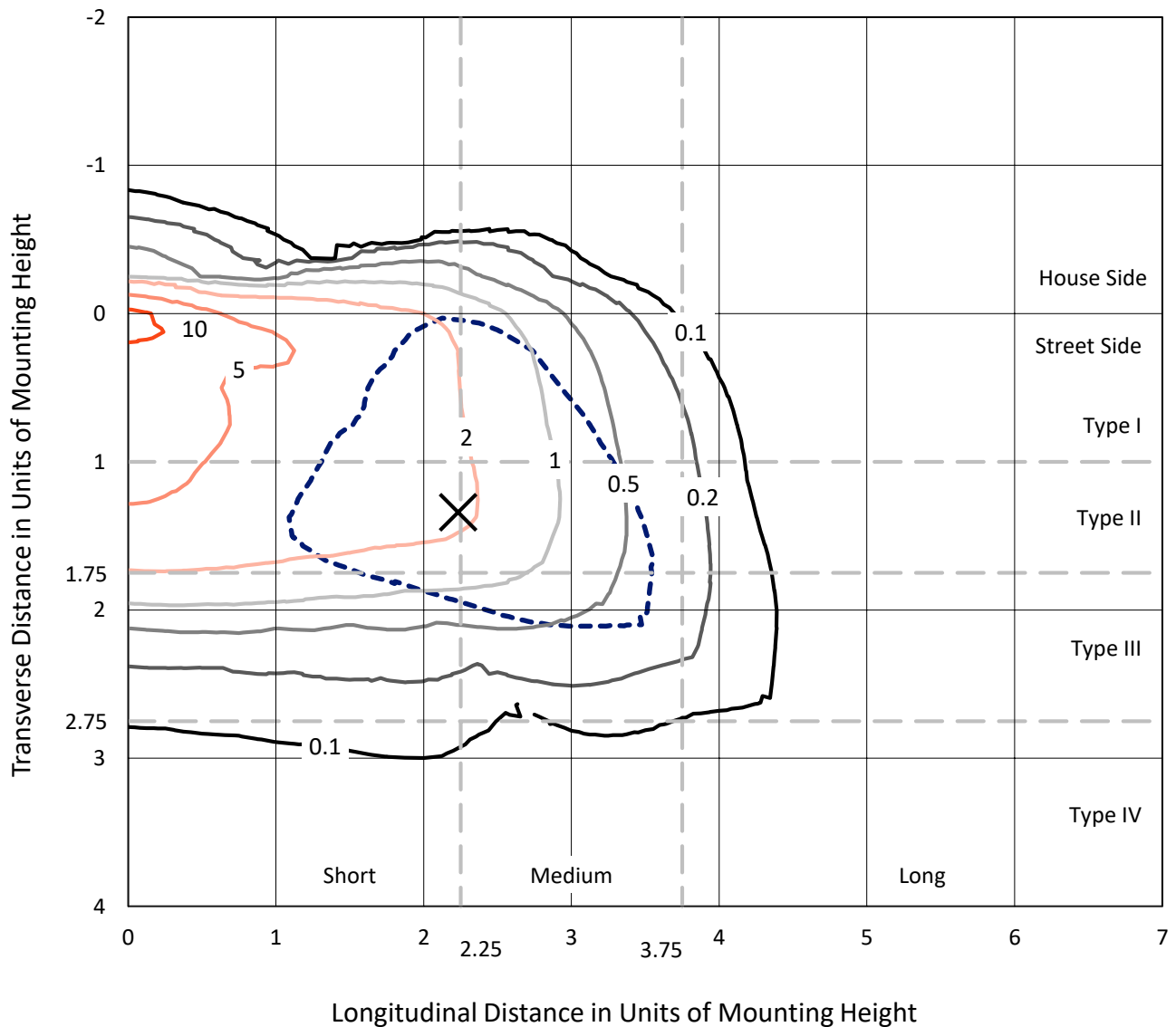
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

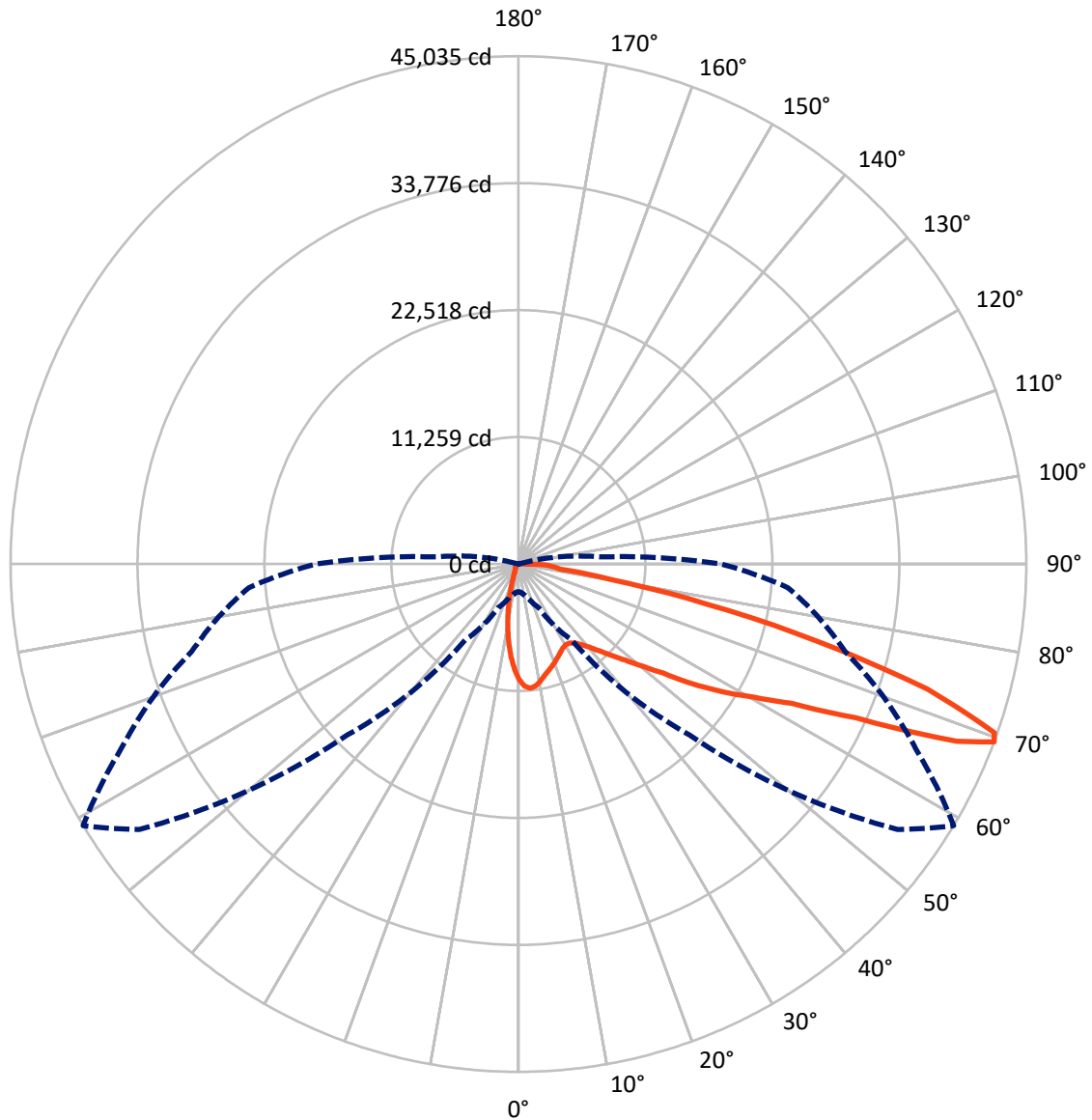


Based on 30 foot mounting height. Maximum calculated value = 11.5 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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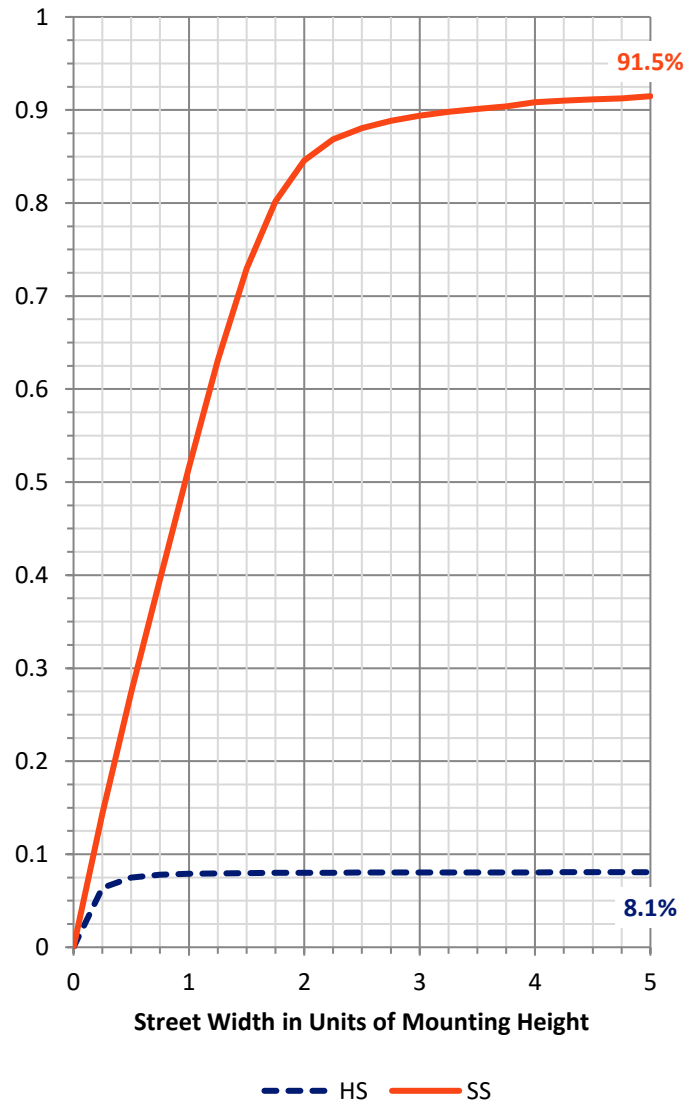
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3213.3	0.0	3213.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	36244.7	0.0	36244.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	39458.0	0.0	39458.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	833.7	2.1
10°-20°	1722.5	4.4
20°-30°	2317.9	5.9
30°-40°	3365.5	8.5
40°-50°	5603.8	14.2
50°-60°	8741.7	22.2
60°-70°	10817.2	27.4
70°-80°	5482.1	13.9
80°-90°	573.6	1.5
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°	39458.0	100.0
0°-180°	39458.0	100.0



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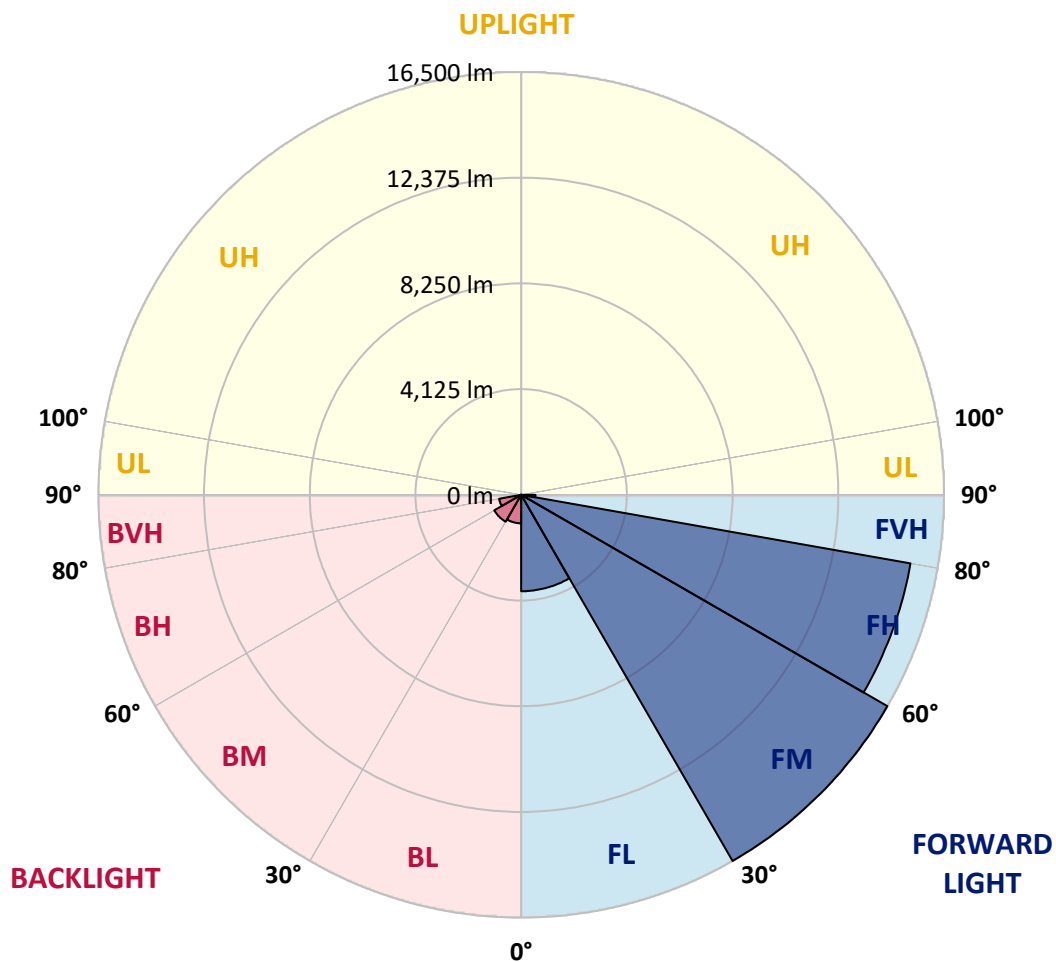
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3761.9	9.5			
FM (30°-60°)	16500.2	41.8			
FH (60°-80°)	15426.6	39.1			G5
FVH (80°-90°)	556.0	1.4			G4/750
BL (0°-30°)	1112.2	2.8	B3/2500		
BM (30°-60°)	1210.8	3.1	B2/2500		
BH (60°-80°)	872.7	2.2	B2/1000		G2/1000
BVH (80°-90°)	17.6	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	10270.4	10270.4	10270.4	10270.4	10270.4	10270.4	10270.4	10270.4	10270.4	10270.4	10270.4
2.5°	11256.6	11252.1	11203.0	11180.7	11140.6	11055.8	10924.1	10855.0	10743.4	10549.3	10288.2
5°	11153.9	11207.5	11236.5	11238.7	11267.7	11236.5	11118.2	11060.2	10906.3	10593.9	10125.3
7.5°	10457.8	10477.9	10560.4	10631.8	10770.2	10901.8	10944.2	10919.7	10828.2	10493.5	9871.0
10°	9712.6	9732.6	9830.8	9924.5	10112.0	10315.0	10529.2	10573.8	10611.8	10350.7	9625.5
12.5°	9070.0	9090.0	9190.5	9313.2	9531.8	9781.7	10114.2	10187.8	10355.2	10214.6	9429.2
15°	8516.6	8525.5	8623.7	8775.4	9036.5	9357.8	9734.9	9853.1	10109.7	10118.6	9257.4
17.5°	8045.8	8068.1	8128.4	8273.4	8559.0	8956.2	9395.7	9565.3	9866.5	10038.3	9090.0
20°	7758.0	7780.3	7778.1	7858.4	8115.0	8538.9	9056.6	9259.6	9625.5	9955.8	8940.6
22.5°	7702.2	7702.2	7644.2	7633.1	7784.8	8139.5	8704.0	8951.7	9409.1	9920.1	8835.7
25°	7900.8	7891.9	7746.8	7628.6	7635.3	7847.3	8362.7	8657.2	9226.2	9944.6	8779.9
27.5°	8320.3	8309.1	8126.2	7900.8	7720.1	7717.8	8103.8	8420.7	9081.1	10060.6	8802.2
30°	8900.4	8895.9	8697.4	8414.0	8086.0	7784.8	8014.6	8302.4	8987.4	10270.4	8853.5
32.5°	9534.1	9527.4	9377.9	9078.9	8663.9	8086.0	8108.3	8349.3	9014.2	10549.3	8978.5
35°	10205.7	10194.5	10129.8	9868.7	9411.3	8641.6	8416.2	8603.6	9183.8	10966.5	9223.9
37.5°	10933.0	10944.2	10991.1	10741.2	10261.4	9420.3	8931.6	9058.8	9525.1	11533.3	9623.3
40°	12006.3	12004.0	12019.7	11691.7	11229.8	10373.0	9652.3	9692.5	10096.3	12285.2	10230.2
42.5°	13954.1	13818.0	13405.3	12735.9	12271.8	11461.9	10560.4	10518.0	10794.7	13215.6	11080.3
45°	16571.4	16281.3	15210.3	13927.4	13333.9	12689.0	11678.3	11542.2	11718.4	14333.4	12129.0
47.5°	18822.7	18521.5	17006.5	15167.9	14460.6	13853.7	12988.0	12742.6	12800.6	15585.2	13458.8
50°	19588.0	19440.7	18117.6	16247.8	15551.7	15319.7	14507.5	14208.5	14125.9	17033.2	15000.6
52.5°	19322.5	19311.3	18430.0	16948.5	16551.3	16836.9	16419.7	16073.8	15770.4	18559.4	16569.1
55°	18896.3	18952.1	18557.2	17562.0	17548.7	18222.5	19034.7	18746.8	17867.7	20217.2	17921.3
57.5°	17720.5	17959.2	18485.8	18722.3	19271.2	19960.6	21212.3	21381.9	20342.2	21486.8	19043.6
60°	14378.1	14902.4	16624.9	18889.6	21491.2	23209.3	23840.7	23985.8	22372.6	22542.2	20558.6
62.5°	10205.7	10741.2	12925.5	16756.6	21524.7	27477.7	27756.6	27187.6	24608.3	24106.3	23171.4
65°	5417.4	5830.2	7615.2	12095.5	18662.0	28468.3	34604.2	32908.5	28553.1	27183.1	26547.2
67.5°	2771.2	2896.1	3605.7	5919.5	12829.6	25286.6	40742.3	41936.1	35351.7	30235.5	26384.3
69°	2452.1	2525.8	2996.5	4279.5	8215.4	21417.6	41041.3	45035.2	38910.5	29981.1	23976.8
70°	2374.0	2438.7	2867.1	3873.4	6421.5	17961.4	39896.7	44763.0	39820.8	29012.7	22178.5
72.5°	2014.8	2070.6	2552.5	3422.7	5218.9	8916.0	32408.7	37931.0	35733.2	24168.7	16053.7
75°	1347.7	1530.6	2449.9	3208.5	4855.2	5064.9	21366.3	27410.7	25462.8	16301.4	8362.7
77.5°	323.5	348.1	691.7	2552.5	4440.2	4458.0	10988.8	17039.9	13898.4	5810.1	1976.9
80°	174.0	167.3	194.1	506.5	4134.5	4183.6	4946.6	8271.2	4962.3	963.9	651.5
82.5°	122.7	116.0	124.9	212.0	1300.8	3810.9	3578.9	3744.0	2057.2	370.4	292.3
85°	44.6	42.4	69.2	191.9	408.3	2191.1	3677.1	3088.0	1666.7	169.6	214.2
87.5°	15.6	13.4	26.8	104.9	124.9	932.7	2269.2	2333.9	656.0	102.6	100.4
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°	10270.4	10270.4	10270.4	10270.4	10270.4	10270.4	10270.4	10270.4	10270.4	10270.4	10270.4
2.5°	10178.9	10040.6	9786.2	9525.1	9284.2	8994.1	8849.1	8706.3	8646.0	8623.7	8518.9
5°	9884.4	9650.1	9110.1	8567.9	8068.1	7537.1	7186.8	6905.7	6740.6	6660.2	6533.1
7.5°	9507.3	9123.5	8304.7	7467.9	6689.2	5921.7	5352.7	4915.4	4614.2	4469.2	4337.5
10°	9141.4	8630.4	7465.7	6325.5	5267.9	4250.5	3465.1	2896.1	2532.5	2365.1	2258.0
12.5°	8813.4	8150.7	6655.8	5212.2	3884.6	2693.1	1894.3	1441.4	1216.0	1137.9	1100.0
15°	8521.1	7708.9	5890.5	4154.6	2630.6	1539.6	1035.3	881.3	845.6	845.6	841.2
17.5°	8244.4	7276.1	5151.9	3161.7	1651.1	941.6	787.6	767.5	767.5	776.5	776.5
20°	7978.9	6863.3	4437.9	2269.2	1039.8	747.5	711.8	707.3	711.8	722.9	722.9
22.5°	7751.3	6488.4	3770.8	1557.4	772.0	673.8	656.0	649.3	651.5	658.2	662.7
25°	7581.7	6171.6	3141.6	1055.4	664.9	613.6	593.5	582.4	573.4	573.4	577.9
27.5°	7474.6	5903.8	2532.5	767.5	598.0	557.8	526.6	508.7	488.6	477.5	481.9
30°	7396.5	5649.5	1961.3	627.0	535.5	495.3	455.2	426.2	397.2	383.8	388.2
32.5°	7367.5	5444.2	1465.9	553.3	479.7	435.1	386.0	348.1	316.8	305.7	307.9
35°	7445.6	5281.3	1073.2	499.8	435.1	379.3	323.5	281.1	256.6	249.9	252.1
37.5°	7650.9	5194.3	803.2	455.2	394.9	332.5	270.0	229.8	214.2	214.2	216.4
40°	8039.1	5192.1	644.8	423.9	359.2	287.8	223.1	194.1	185.2	189.7	191.9
42.5°	8605.9	5310.3	562.3	394.9	328.0	245.4	185.2	165.1	162.9	167.3	169.6
45°	9380.1	5526.8	517.6	370.4	294.5	205.3	156.2	142.8	142.8	149.5	151.7
47.5°	10328.4	5843.6	479.7	345.8	261.1	171.8	133.9	124.9	127.2	133.9	136.1
50°	11470.8	6243.0	441.8	319.1	236.5	142.8	116.0	109.3	111.6	120.5	122.7
52.5°	12771.6	6780.7	410.5	294.5	205.3	118.3	98.2	93.7	98.2	107.1	109.3
55°	13887.2	7262.7	372.6	274.4	165.1	98.2	80.3	80.3	84.8	95.9	98.2
57.5°	14960.4	7766.9	339.1	236.5	129.4	78.1	66.9	69.2	75.9	87.0	89.2
60°	16535.7	8621.5	299.0	198.6	98.2	62.5	55.8	58.0	66.9	78.1	80.3
62.5°	19210.9	9922.3	258.8	165.1	75.9	49.1	44.6	49.1	60.2	73.6	75.9
65°	21625.1	10451.1	212.0	138.3	58.0	37.9	37.9	44.6	58.0	71.4	73.6
67.5°	20279.7	8797.8	165.1	109.3	44.6	29.0	31.2	42.4	55.8	71.4	73.6
69°	17934.7	7193.5	140.6	87.0	37.9	26.8	29.0	42.4	55.8	69.2	71.4
70°	16107.3	6073.4	124.9	73.6	33.5	26.8	29.0	40.2	55.8	69.2	71.4
72.5°	10788.0	3279.9	100.4	53.5	31.2	24.5	24.5	40.2	53.5	66.9	69.2
75°	4636.5	905.9	80.3	37.9	26.8	22.3	22.3	37.9	51.3	64.7	69.2
77.5°	847.9	229.8	64.7	33.5	26.8	22.3	20.1	35.7	49.1	62.5	64.7
80°	336.9	113.8	51.3	29.0	24.5	20.1	17.8	33.5	46.9	60.2	62.5
82.5°	203.0	64.7	42.4	26.8	24.5	17.8	15.6	29.0	44.6	58.0	60.2
85°	165.1	44.6	33.5	26.8	22.3	17.8	13.4	26.8	40.2	55.8	58.0
87.5°	80.3	31.2	31.2	24.5	22.3	17.8	13.4	24.5	37.9	53.5	55.8
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)