

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: P321903

Luminaire Tested: **GAN-SA9D-730-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44940 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

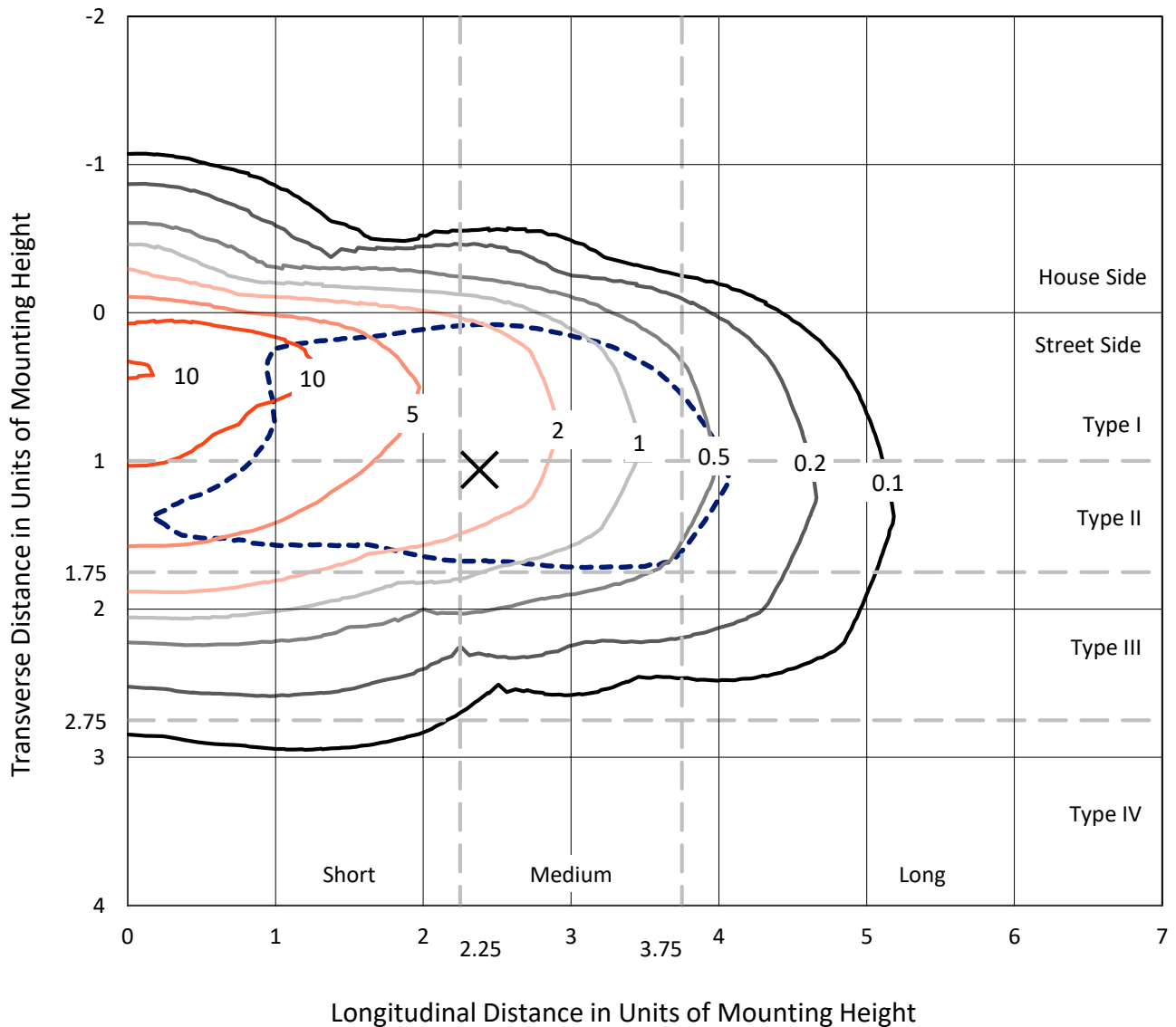
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321903
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Iso-Footcandle Lines of Horizontal Illumination

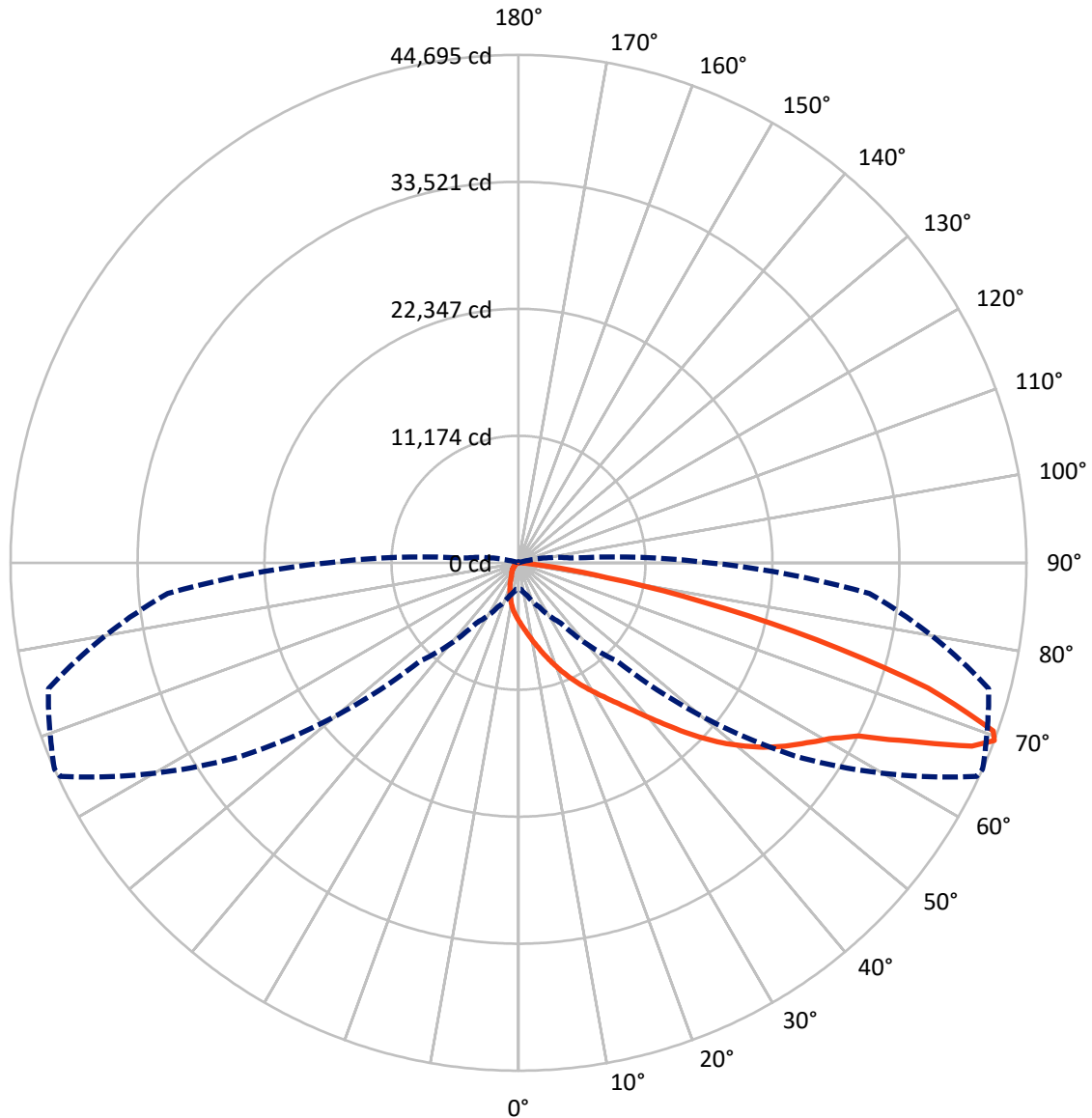
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Medium - N/A

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CATALOG NUMBER: GAN-SA9D-730-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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 CATALOG NUMBER: GAN-SA9D-730-U-T2-HSS

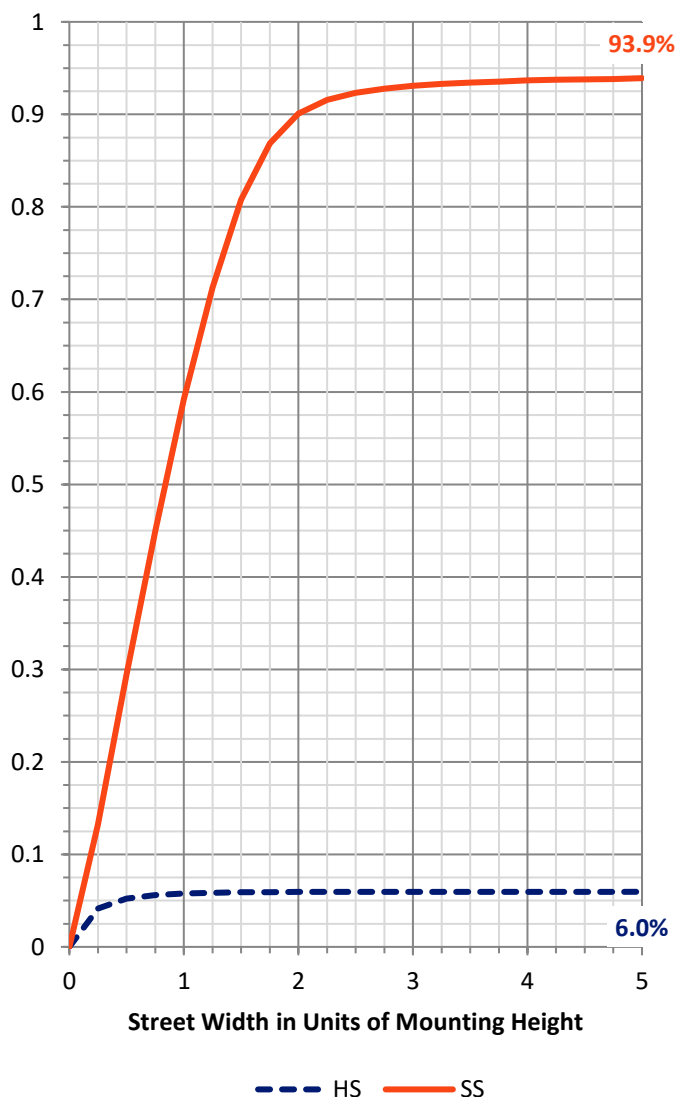
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2695.8	0.0	2695.8
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	42244.2	0.0	42244.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	44940.0	0.0	44940.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.4	1.1
10°-20°	1471.3	3.3
20°-30°	2562.1	5.7
30°-40°	4495.2	10.0
40°-50°	7524.3	16.7
50°-60°	11060.0	24.6
60°-70°	11355.9	25.3
70°-80°	5606.1	12.5
80°-90°	370.7	0.8
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°	44940.0	100.0
0°-180°	44940.0	100.0

Coefficient of Utilization

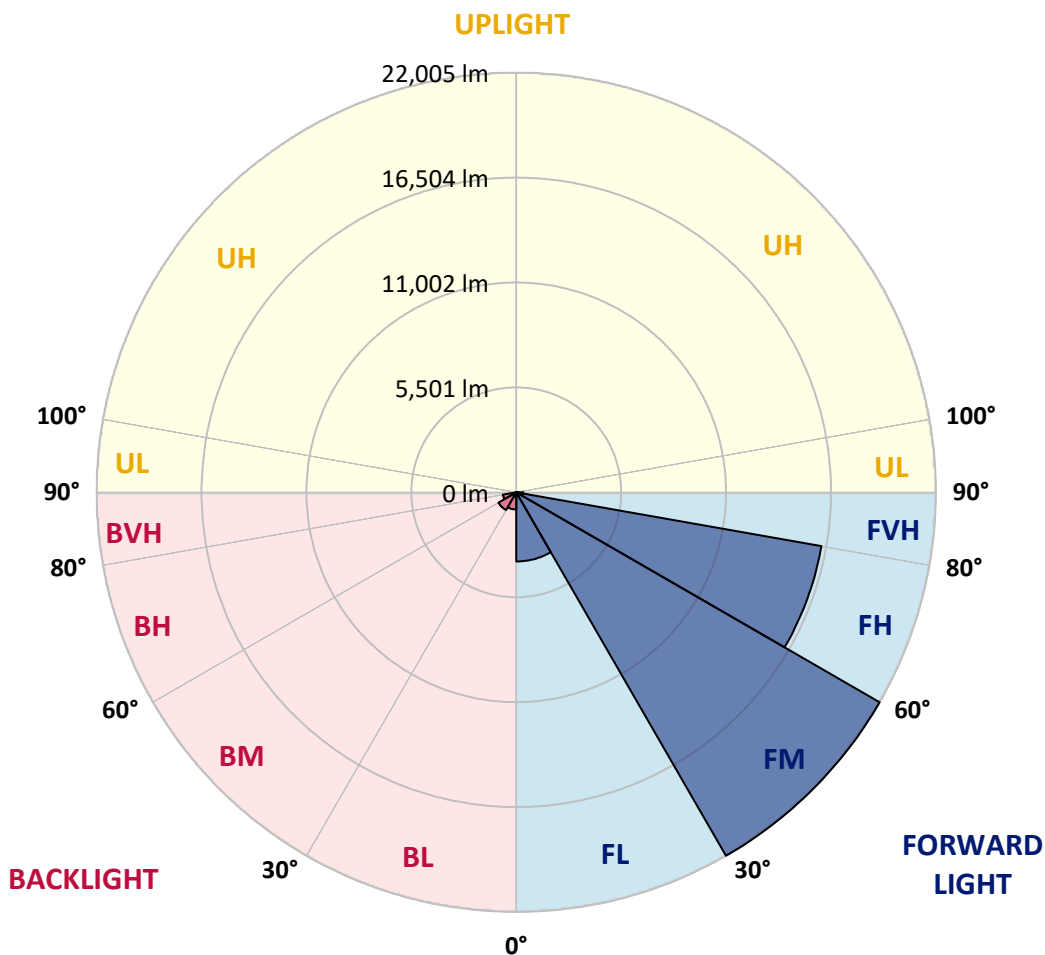


REPORT NUMBER: P321903
 CATALOG NUMBER: GAN-SA9D-730-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3626.2	8.1			
FM (30°-60°)	22004.8	49.0			
FH (60°-80°)	16251.5	36.2			G5
FVH (80°-90°)	361.7	0.8			G3/500
BL (0°-30°)	901.6	2.0	B2/1000		
BM (30°-60°)	1074.8	2.4	B2/2500		
BH (60°-80°)	710.4	1.6	B2/1000		G2/1000
BVH (80°-90°)	9.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5114.3	5114.3	5114.3	5114.3	5114.3	5114.3	5114.3	5114.3	5114.3	5114.3	5114.3
2.5°	6019.4	5993.7	5983.1	5936.1	5855.0	5793.1	5673.6	5534.8	5509.2	5374.7	5210.4
5°	6800.6	6779.2	6764.3	6698.1	6614.9	6459.1	6241.3	5983.1	5934.0	5677.8	5349.1
7.5°	7344.9	7383.3	7383.3	7340.6	7236.0	7118.6	6851.8	6499.6	6437.7	6045.0	5534.8
10°	7662.9	7709.9	7746.2	7782.5	7767.5	7720.6	7468.7	7071.7	6997.0	6476.1	5750.4
12.5°	7692.8	7739.8	7842.2	7993.8	8141.1	8247.8	8089.8	7705.6	7620.2	6975.6	6006.5
15°	7526.3	7575.4	7733.4	8027.9	8384.4	8696.0	8747.3	8407.9	8320.4	7571.2	6326.7
17.5°	7236.0	7268.0	7494.3	7902.0	8461.2	9033.3	9342.8	9161.4	9080.3	8252.1	6683.2
20°	7020.4	7043.9	7242.4	7680.0	8414.3	9244.6	9906.3	9961.8	9876.4	8982.1	7069.5
22.5°	7389.7	7432.4	7438.8	7645.9	8286.2	9349.2	10401.5	10749.5	10685.4	9756.9	7449.5
25°	8399.3	8448.4	8286.2	8158.1	8395.1	9396.2	10826.3	11556.3	11505.1	10591.5	7831.6
27.5°	9733.4	9784.7	9575.5	9193.4	8965.0	9573.3	11204.1	12376.0	12373.8	11475.2	8243.5
30°	11044.0	11095.2	10881.8	10499.7	9974.6	10074.9	11530.7	13234.0	13246.8	12386.6	8681.1
32.5°	12418.7	12482.7	12262.8	11771.9	11223.3	10941.6	11989.6	14096.4	14169.0	13443.2	9174.2
35°	13981.1	13989.7	13680.2	13165.7	12533.9	12100.6	12726.0	15063.3	15236.2	14751.7	9799.6
37.5°	15513.7	15575.6	15321.6	14510.5	13929.9	13439.0	13821.0	16271.5	16516.9	16350.4	10617.1
40°	16649.3	16779.5	16743.2	15868.0	15317.3	14967.3	15180.7	17708.0	18019.6	18211.7	11648.1
42.5°	17362.2	17460.4	17626.9	17099.7	16600.2	16657.8	16785.9	19381.5	19765.7	20333.5	12832.8
45°	18179.7	18226.7	18365.4	18132.8	17795.5	18376.1	18489.2	21266.2	21669.7	22615.3	14147.6
47.5°	19178.7	19289.7	19328.1	19114.7	18961.0	19895.9	20130.7	22980.3	23545.9	25059.3	15539.3
50°	20450.9	20480.7	20546.9	20408.2	20254.5	21202.2	21603.5	24779.7	25294.1	27511.9	16911.8
52.5°	21695.3	21802.0	22032.5	21945.0	21883.1	22314.3	22916.2	26401.9	26976.1	29556.7	18282.2
55°	22053.9	22145.7	22941.8	23486.2	23989.9	23684.7	24171.3	27855.5	28476.7	31383.9	19601.3
57.5°	20621.6	20807.3	22186.2	23603.6	25693.2	25814.9	25896.0	29347.6	29904.7	32784.1	20973.8
60°	17001.5	17037.8	19300.4	21731.6	25411.5	27674.1	28414.8	30950.6	31418.0	34088.3	22617.4
62.5°	10813.5	11182.8	13665.2	17097.5	22431.7	27405.1	31460.7	33375.4	33546.2	35652.9	24973.9
65°	5150.6	5389.7	7178.4	10563.8	16248.0	23962.2	33563.2	37761.8	37838.7	38754.4	28122.3
67.5°	2851.7	2967.0	3818.7	5686.4	9498.6	16946.0	32713.7	42957.3	43029.8	41922.0	30884.4
69°	2230.6	2328.8	2999.0	4286.1	6439.9	12179.6	29603.7	44479.2	44694.8	42829.2	30982.6
70°	1893.3	1989.4	2582.8	3620.2	5178.4	9411.1	26350.7	44101.4	44329.8	42743.8	30250.5
72.5°	1159.0	1214.5	1720.4	2548.6	3470.7	4734.4	16250.1	37296.5	37682.9	39209.0	25998.5
75°	781.2	811.1	1075.8	1758.8	2482.4	2437.6	8442.0	26288.8	27125.5	30500.2	19202.2
77.5°	559.2	587.0	721.5	1137.7	1739.6	1609.4	3822.9	16337.6	16516.9	18292.9	10472.0
80°	318.0	343.7	510.2	676.6	1180.4	1073.7	1519.8	7803.8	7893.5	7844.4	3496.3
82.5°	166.5	187.8	279.6	446.1	757.8	702.3	631.8	2612.7	2625.5	2183.6	766.3
85°	32.0	38.4	138.7	305.2	390.6	305.2	258.3	612.6	625.4	552.8	190.0
87.5°	0.0	2.1	55.5	68.3	76.8	79.0	83.2	119.5	128.1	172.9	51.2
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°	5114.3	5114.3	5114.3	5114.3	5114.3	5114.3	5114.3	5114.3	5114.3	5114.3	5114.3
2.5°	5137.8	5061.0	4913.7	4742.9	4610.6	4480.4	4377.9	4271.2	4232.8	4213.5	4211.4
5°	5189.0	5026.8	4715.2	4395.0	4132.4	3884.8	3707.7	3539.0	3460.1	3423.8	3408.8
7.5°	5274.4	5014.0	4512.4	4023.6	3645.8	3336.3	3090.8	2907.2	2815.4	2777.0	2762.1
10°	5374.7	4996.9	4275.4	3630.8	3148.4	2828.2	2584.9	2403.5	2303.1	2260.5	2239.1
12.5°	5492.1	4967.0	4002.2	3233.8	2723.7	2403.5	2108.9	1884.8	1769.5	1720.4	1696.9
15°	5637.3	4937.2	3716.2	2860.3	2350.1	1959.5	1637.2	1485.6	1462.1	1453.6	1455.7
17.5°	5780.3	4890.2	3404.6	2491.0	1957.4	1530.5	1366.1	1357.6	1361.8	1361.8	1361.8
20°	5908.4	4783.5	3065.2	2175.1	1583.8	1291.4	1257.2	1242.3	1231.6	1223.1	1212.4
22.5°	6008.7	4640.5	2738.6	1861.3	1293.5	1182.5	1129.2	1082.2	1043.8	1018.2	1005.4
25°	6077.0	4450.5	2439.8	1560.3	1163.3	1075.8	979.7	900.8	841.0	804.7	789.8
27.5°	6128.2	4245.6	2172.9	1306.3	1073.7	952.0	826.1	732.1	670.2	638.2	625.4
30°	6164.5	4012.9	1938.1	1148.4	973.3	821.8	687.3	595.5	550.7	533.6	525.1
32.5°	6198.7	3754.6	1716.2	1073.7	879.4	702.3	576.3	505.9	478.1	456.8	450.4
35°	6284.0	3515.6	1504.8	994.7	783.4	599.8	495.2	444.0	416.2	403.4	399.2
37.5°	6486.8	3338.4	1302.1	913.6	687.3	518.7	433.3	397.0	371.4	358.6	354.3
40°	6813.4	3248.7	1131.3	826.1	593.4	456.8	392.8	358.6	330.9	311.6	307.4
42.5°	7293.7	3261.6	1011.8	738.5	518.7	407.7	354.3	313.8	283.9	266.8	262.5
45°	7876.4	3355.5	928.5	653.2	456.8	369.3	311.6	268.9	241.2	226.3	222.0
47.5°	8508.2	3507.0	860.2	576.3	407.7	333.0	268.9	224.1	200.6	187.8	185.7
50°	9174.2	3654.3	789.8	501.6	365.0	296.7	226.3	185.7	166.5	155.8	151.6
52.5°	9848.7	3825.1	725.7	433.3	328.7	254.0	187.8	151.6	136.6	128.1	123.8
55°	10574.4	3953.1	663.8	379.9	292.4	215.6	155.8	125.9	113.1	102.5	100.3
57.5°	11428.2	4151.6	599.8	328.7	249.7	179.3	128.1	100.3	89.6	79.0	76.8
60°	12580.9	4384.3	531.5	290.3	204.9	147.3	104.6	81.1	68.3	59.8	57.6
62.5°	14100.7	4642.6	446.1	254.0	166.5	119.5	83.2	64.0	49.1	38.4	38.4
65°	16028.1	5063.1	365.0	213.5	136.6	98.2	64.0	47.0	27.7	17.1	17.1
67.5°	17153.0	5135.7	294.6	175.0	111.0	83.2	53.4	32.0	8.5	2.1	0.0
69°	16792.3	4715.2	249.7	149.4	96.1	79.0	49.1	23.5	4.3	0.0	0.0
70°	16113.5	4311.7	219.9	132.3	87.5	74.7	47.0	17.1	4.3	0.0	0.0
72.5°	13315.2	3069.4	166.5	98.2	64.0	66.2	42.7	10.7	4.3	0.0	0.0
75°	9699.3	1865.6	119.5	68.3	40.6	49.1	29.9	4.3	2.1	0.0	0.0
77.5°	5396.1	879.4	74.7	38.4	25.6	29.9	14.9	0.0	0.0	0.0	0.0
80°	1752.4	239.1	34.2	21.3	14.9	17.1	6.4	0.0	0.0	0.0	0.0
82.5°	324.4	68.3	19.2	10.7	4.3	4.3	0.0	0.0	0.0	0.0	0.0
85°	70.4	27.7	10.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.5	8.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)