

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: P322834

Luminaire Tested: **GAN-SA0A-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30446 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

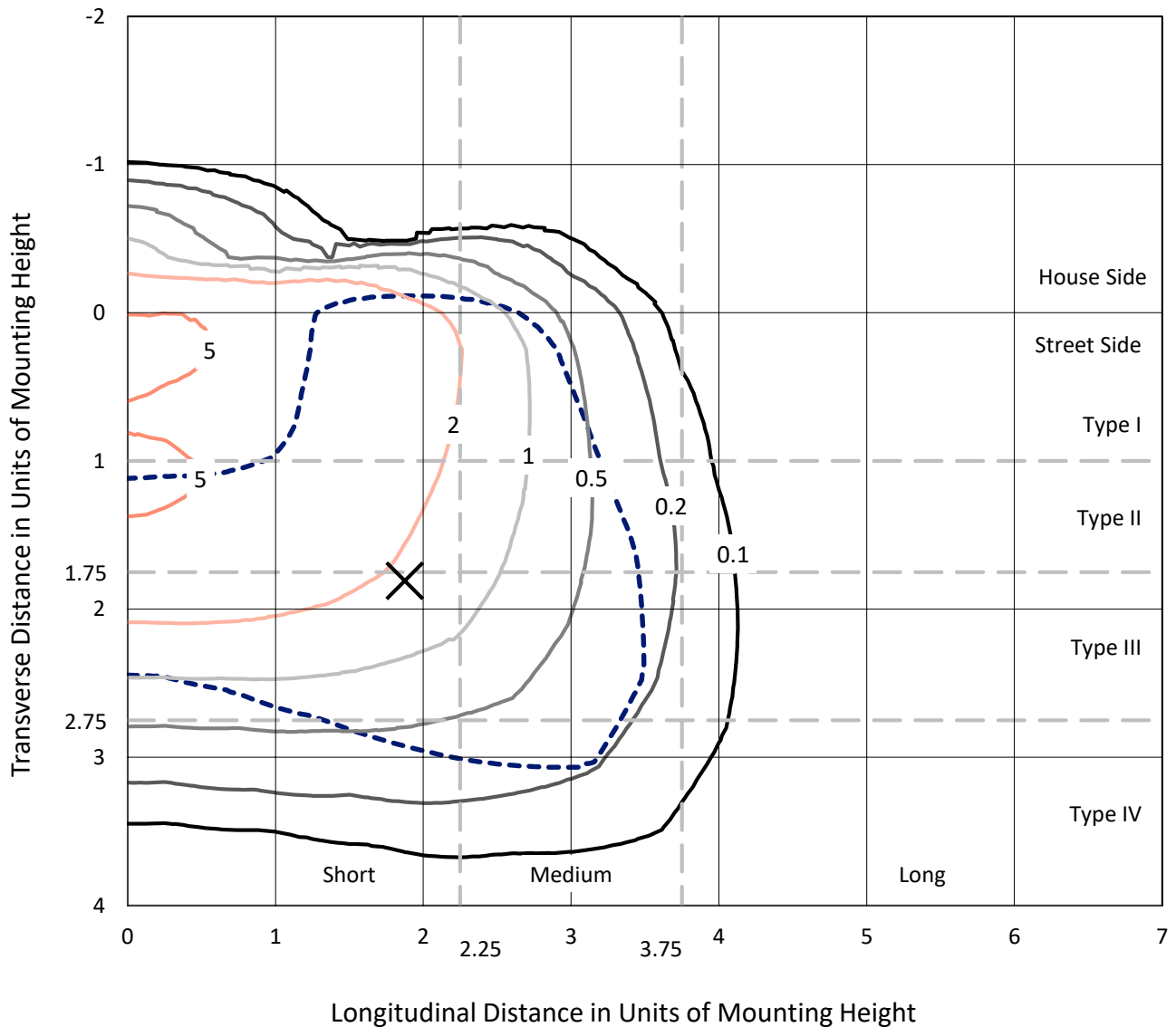
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322834
 CATALOG NUMBER: GAN-SA0A-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

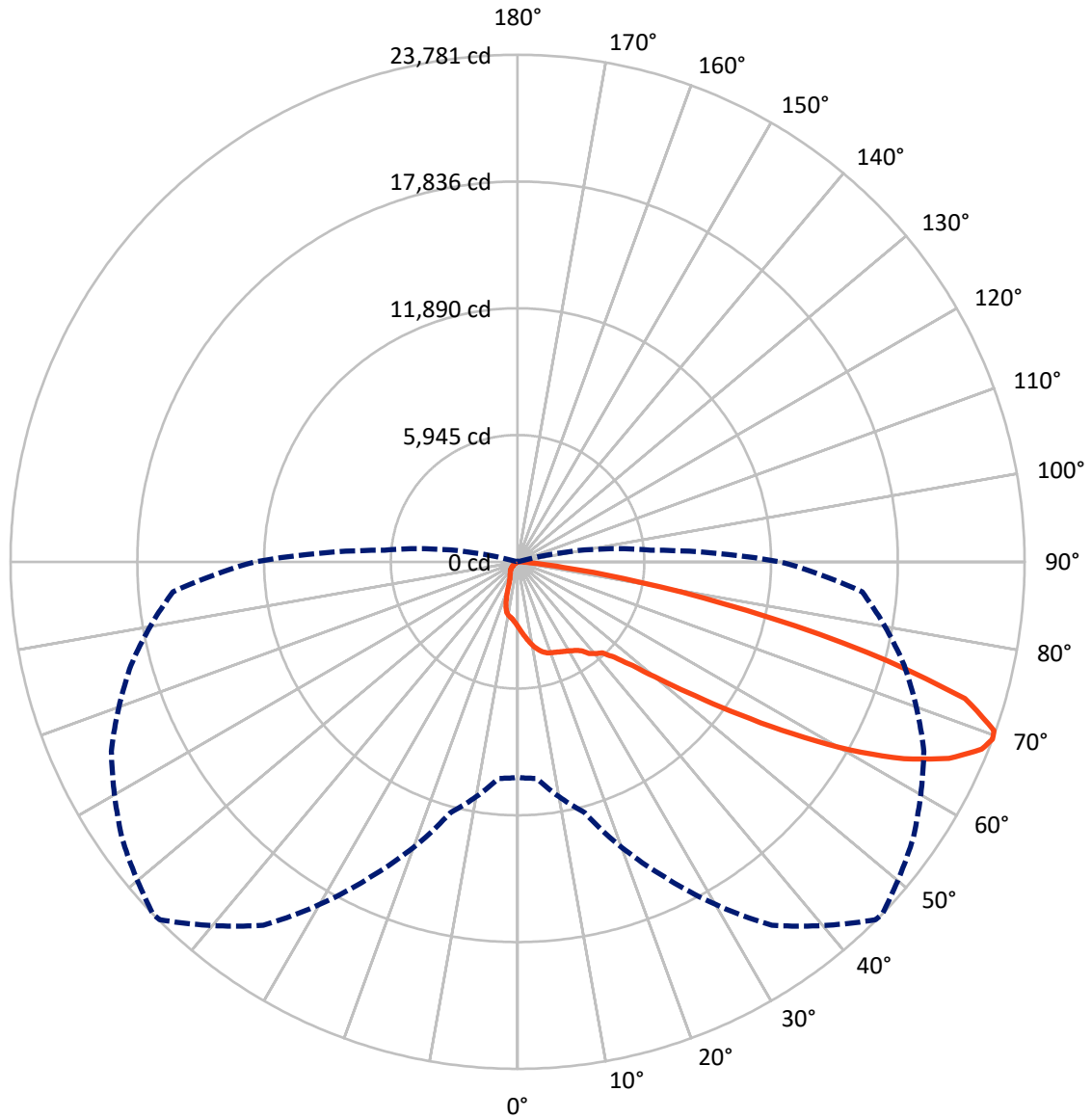
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P322834
CATALOG NUMBER: GAN-SA0A-730-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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 CATALOG NUMBER: GAN-SA0A-730-U-T4W-HSS

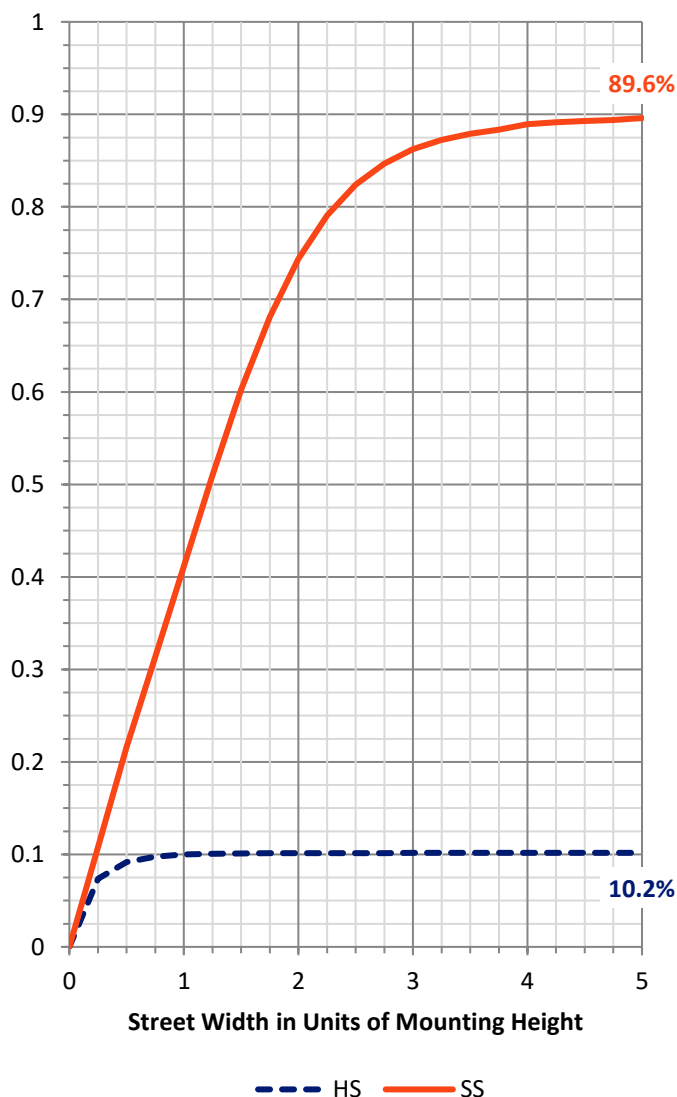
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3124.6	0.0	3124.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	27321.4	0.0	27321.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	30446.0	0.0	30446.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.6	1.0
10°-20°	921.2	3.0
20°-30°	1448.7	4.8
30°-40°	2077.4	6.8
40°-50°	3590.6	11.8
50°-60°	7093.5	23.3
60°-70°	9913.8	32.6
70°-80°	4789.4	15.7
80°-90°	307.8	1.0
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°	30446.0	100.0
0°-180°	30446.0	100.0

Coefficient of Utilization



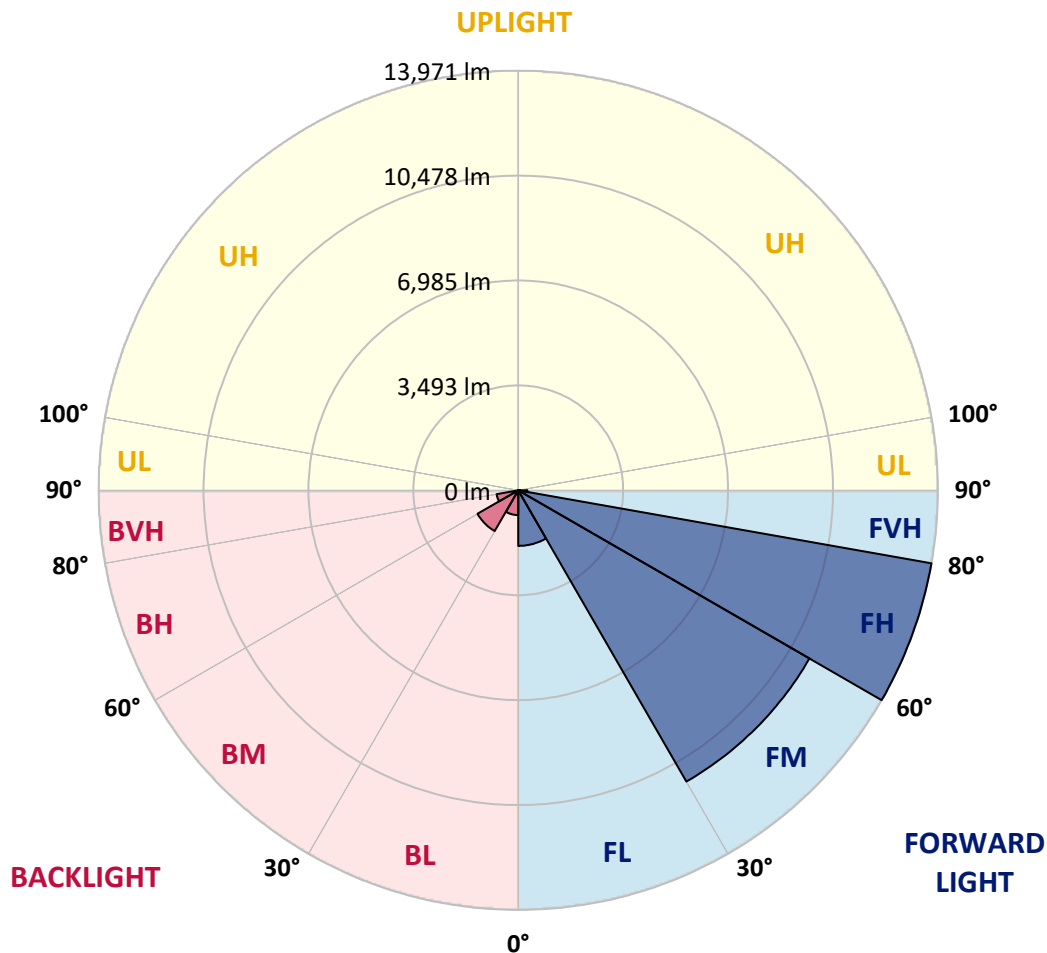
REPORT NUMBER: P322834
 CATALOG NUMBER: GAN-SA0A-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1850.0	6.1			
FM (30°-60°)	11195.7	36.8			
FH (60°-80°)	13970.5	45.9			G5
FVH (80°-90°)	305.2	1.0			G3/500
BL (0°-30°)	823.5	2.7	B2/1000		
BM (30°-60°)	1565.8	5.1	B2/2500		
BH (60°-80°)	732.7	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.6	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 IV Short





REPORT NUMBER: P322834

CATALOG NUMBER: GAN-SAOA-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3050.6	3050.6	3050.6	3050.6	3050.6	3050.6	3050.6	3050.6	3050.6	3050.6	3050.6
2.5°	3388.9	3384.6	3364.6	3356.1	3307.5	3279.0	3267.6	3231.9	3180.5	3129.1	3072.0
5°	3774.3	3772.9	3735.8	3700.1	3608.7	3523.1	3507.4	3424.6	3309.0	3200.5	3092.0
7.5°	4168.3	4149.8	4112.6	4044.1	3911.4	3774.3	3761.5	3644.4	3480.3	3323.2	3167.6
10°	4502.3	4490.9	4442.4	4338.2	4182.6	4027.0	4011.3	3867.1	3681.5	3488.8	3290.4
12.5°	4762.2	4753.6	4689.3	4559.4	4393.9	4232.5	4211.1	4082.7	3884.2	3668.7	3434.6
15°	4920.6	4916.3	4837.8	4699.3	4536.6	4396.7	4378.2	4265.4	4081.2	3855.7	3591.6
17.5°	4957.7	4959.1	4877.8	4737.9	4603.7	4503.8	4489.5	4403.8	4249.7	4025.6	3748.6
20°	4874.9	4892.1	4819.3	4697.9	4615.1	4562.3	4550.9	4499.5	4369.6	4158.3	3874.2
22.5°	4757.9	4766.4	4716.5	4635.1	4600.8	4610.8	4605.1	4576.6	4466.7	4272.5	3998.4
25°	4686.5	4686.5	4656.5	4588.0	4610.8	4672.2	4673.6	4667.9	4580.9	4412.4	4149.8
27.5°	4683.6	4675.1	4640.8	4589.4	4652.2	4746.4	4752.2	4790.7	4736.5	4582.3	4338.2
30°	4797.8	4787.8	4715.0	4648.0	4727.9	4829.2	4843.5	4927.7	4900.6	4766.4	4548.0
32.5°	5064.8	5029.1	4867.8	4757.9	4817.8	4939.2	4957.7	5091.9	5134.7	4993.4	4750.7
35°	5430.2	5317.5	5084.8	4966.3	4972.0	5099.0	5116.2	5313.2	5440.2	5201.8	4907.8
37.5°	5934.1	5878.5	5500.2	5183.3	5209.0	5401.7	5451.6	5665.8	5630.1	5316.0	5086.2
40°	7039.0	6951.9	6549.4	5791.4	5435.9	5647.2	5662.9	5777.1	5780.0	5574.4	5457.3
42.5°	8543.6	8507.9	8084.0	6894.8	5882.7	5811.4	5839.9	6032.6	6248.2	6119.7	6114.0
45°	10209.5	10190.9	9741.3	8359.5	6786.4	6349.5	6385.2	6643.6	7056.2	7084.7	7266.0
47.5°	11549.9	11541.4	11283.0	9994.0	8169.6	7261.7	7273.1	7547.2	8272.4	8630.7	8920.5
50°	12771.9	12813.3	12609.1	11762.6	10053.9	8690.6	8663.5	8846.2	10011.1	10597.8	10957.5
52.5°	14470.6	14529.1	13956.7	13412.8	12031.0	10463.6	10442.2	10633.5	12100.9	12540.6	12604.9
55°	15970.9	15871.0	15418.5	15261.4	14442.1	12653.4	12647.7	12816.1	14122.3	14309.3	14427.8
57.5°	16633.3	16594.7	16813.1	17172.9	16967.3	15241.5	15228.6	15100.1	15930.9	15950.9	16314.9
60°	17051.5	17098.6	17768.1	18877.3	19389.8	18026.5	17943.7	17160.0	17658.2	17614.0	18003.7
62.5°	16737.5	16830.3	18035.1	19883.7	21202.7	20457.6	20340.5	19047.2	19134.3	18981.5	19344.1
65°	15070.2	15214.3	17188.6	19693.8	22102.0	22357.6	22239.1	20713.1	20306.2	20055.0	19853.7
67.5°	12236.6	12322.2	14383.5	18042.2	21696.6	23491.0	23466.7	22173.4	21191.3	19873.7	18312.0
69°	10112.4	10196.7	12180.9	16303.5	20804.4	23733.7	23780.8	22641.6	21022.8	18771.7	16225.0
70°	8565.0	8655.0	10503.6	14813.2	19769.5	23620.9	23705.1	22597.4	20540.4	17495.5	14393.5
72.5°	4492.4	4569.4	6466.6	10205.2	16116.5	21689.5	21945.0	20687.4	17411.3	12706.2	8510.8
75°	1411.8	1456.1	2525.3	5334.6	11034.6	16864.5	16923.1	16227.9	12363.6	6989.1	3544.5
77.5°	538.2	525.3	840.8	1965.7	5578.7	10619.2	10977.5	10141.0	6488.0	2471.0	818.0
80°	289.8	291.2	436.8	813.7	2386.8	5457.3	5760.0	4914.9	2305.4	770.9	188.4
82.5°	125.6	131.3	245.5	431.1	1096.3	2012.8	2164.1	1801.5	880.8	518.2	69.9
85°	27.1	30.0	118.5	234.1	446.8	565.3	592.4	583.8	561.0	402.6	27.1
87.5°	0.0	0.0	52.8	84.2	112.8	128.5	112.8	147.0	309.8	271.2	14.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P322834
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3050.6	3050.6	3050.6	3050.6	3050.6	3050.6	3050.6	3050.6	3050.6	3050.6	3050.6
2.5°	3053.4	3027.7	2983.5	2934.9	2900.7	2865.0	2836.4	2823.6	2809.3	2799.3	2812.2
5°	3047.7	2997.8	2912.1	2829.3	2769.4	2720.8	2680.9	2665.1	2649.4	2638.0	2636.6
7.5°	3097.7	3027.7	2896.4	2775.1	2682.3	2616.6	2562.4	2539.5	2521.0	2512.4	2505.3
10°	3193.3	3103.4	2927.8	2769.4	2649.4	2538.1	2421.0	2331.1	2272.6	2245.5	2235.5
12.5°	3317.5	3204.7	2987.8	2799.3	2625.2	2411.1	2162.7	1948.5	1810.1	1764.4	1737.3
15°	3463.1	3323.2	3066.3	2837.9	2536.7	2145.5	1724.4	1444.6	1316.2	1290.5	1261.9
17.5°	3603.0	3448.8	3160.5	2845.0	2342.5	1714.4	1263.3	1073.5	1023.5	1040.7	1044.9
20°	3725.8	3573.0	3253.3	2782.2	1989.9	1286.2	977.8	930.7	949.3	982.1	987.8
22.5°	3850.0	3693.0	3338.9	2616.6	1538.8	976.4	880.8	892.2	910.7	943.6	949.3
25°	4001.3	3838.6	3418.9	2312.6	1154.9	830.8	836.5	853.6	872.2	902.2	905.0
27.5°	4175.4	4022.7	3471.7	1917.1	856.5	763.7	782.3	808.0	826.5	855.1	860.8
30°	4406.7	4265.4	3488.8	1507.4	718.0	703.8	712.3	743.7	770.9	796.5	800.8
32.5°	4623.7	4505.2	3431.7	1137.7	665.2	648.1	648.1	666.6	698.0	722.3	728.0
35°	4823.5	4746.4	3249.0	832.2	625.2	596.7	582.4	582.4	602.4	622.4	628.1
37.5°	5087.6	5084.8	2953.5	663.8	586.7	553.9	523.9	501.1	493.9	498.2	501.1
40°	5540.1	5544.4	2568.1	595.3	553.9	509.6	463.9	422.5	384.0	371.2	369.7
42.5°	6246.8	6182.5	2164.1	562.4	525.3	463.9	395.4	339.7	279.8	261.2	259.8
45°	7368.8	6987.6	1735.8	532.5	495.3	412.5	326.9	251.2	202.7	188.4	188.4
47.5°	9003.3	8045.4	1344.7	499.6	455.4	354.0	247.0	181.3	148.5	141.3	142.8
50°	10693.4	9081.8	1030.7	458.2	406.8	292.6	182.7	131.3	112.8	112.8	114.2
52.5°	12192.3	9841.2	803.7	414.0	346.9	229.8	138.5	102.8	94.2	92.8	94.2
55°	13595.5	10330.8	615.3	362.6	275.5	171.3	105.6	84.2	78.5	75.7	74.2
57.5°	14948.8	10573.5	461.1	292.6	199.9	124.2	84.2	71.4	65.7	61.4	60.0
60°	15849.6	10376.5	316.9	215.6	138.5	89.9	69.9	61.4	54.2	50.0	48.5
62.5°	16357.8	9838.4	204.1	155.6	98.5	67.1	55.7	51.4	41.4	37.1	37.1
65°	16152.2	8950.4	142.8	111.3	71.4	50.0	41.4	41.4	30.0	24.3	22.8
67.5°	14313.6	7561.5	108.5	82.8	51.4	37.1	31.4	35.7	18.6	11.4	11.4
69°	12315.1	6266.7	92.8	68.5	42.8	30.0	27.1	32.8	12.8	8.6	7.1
70°	10703.4	5406.0	84.2	60.0	35.7	25.7	24.3	31.4	12.8	7.1	5.7
72.5°	6403.8	3014.9	64.2	42.8	22.8	20.0	20.0	35.7	12.8	7.1	5.7
75°	2588.1	1062.1	47.1	30.0	17.1	17.1	24.3	45.7	11.4	5.7	4.3
77.5°	586.7	232.7	27.1	18.6	11.4	17.1	28.6	35.7	7.1	2.9	0.0
80°	142.8	57.1	17.1	11.4	7.1	12.8	21.4	20.0	1.4	0.0	0.0
82.5°	47.1	20.0	7.1	5.7	1.4	4.3	10.0	5.7	0.0	0.0	0.0
85°	20.0	11.4	2.9	1.4	0.0	0.0	1.4	0.0	0.0	0.0	0.0
87.5°	12.8	4.3	0.0	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)