

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: P322512

Luminaire Tested: **GAN-SA8A-730-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24153 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

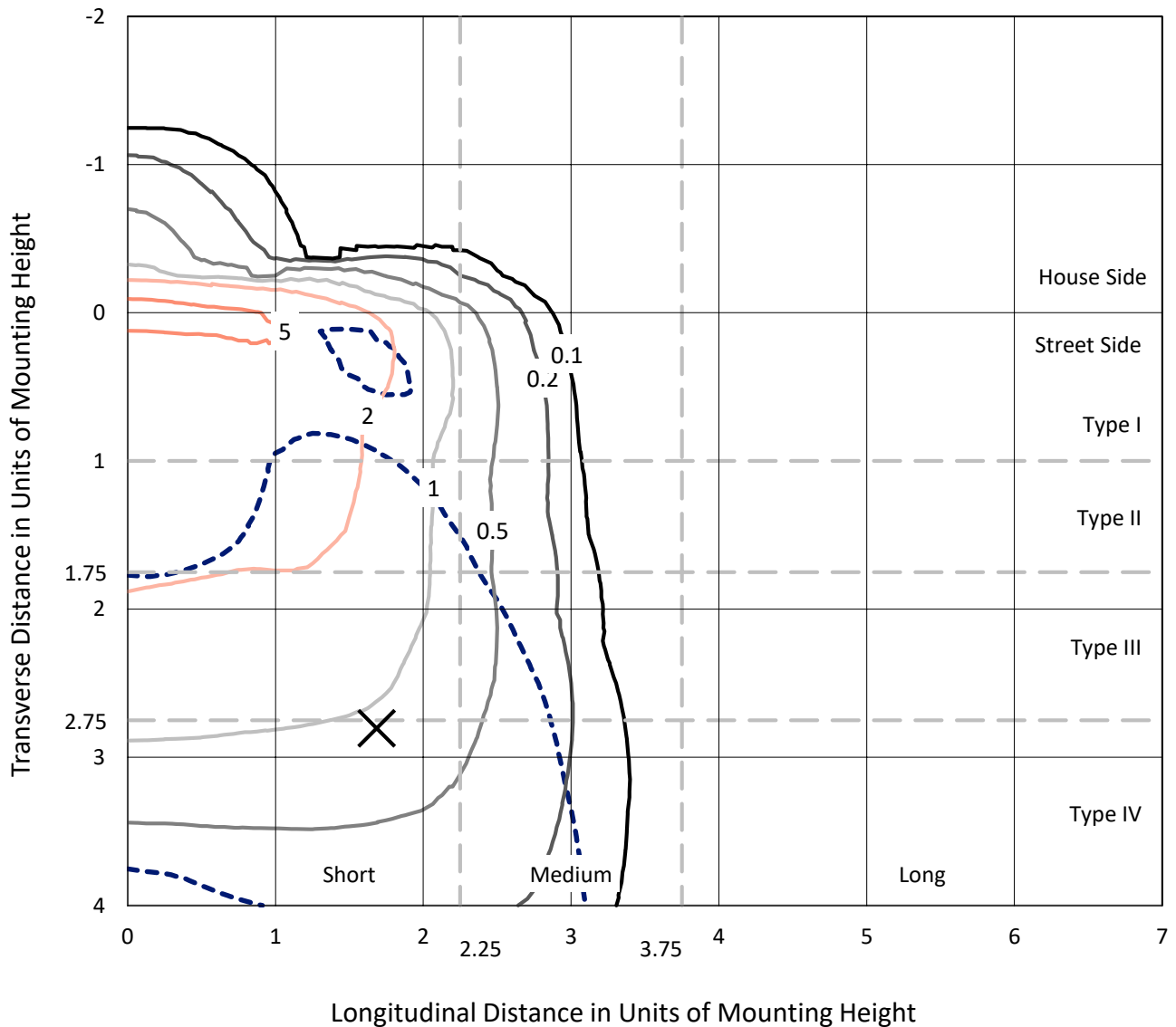
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322512
 CATALOG NUMBER: GAN-SA8A-730-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

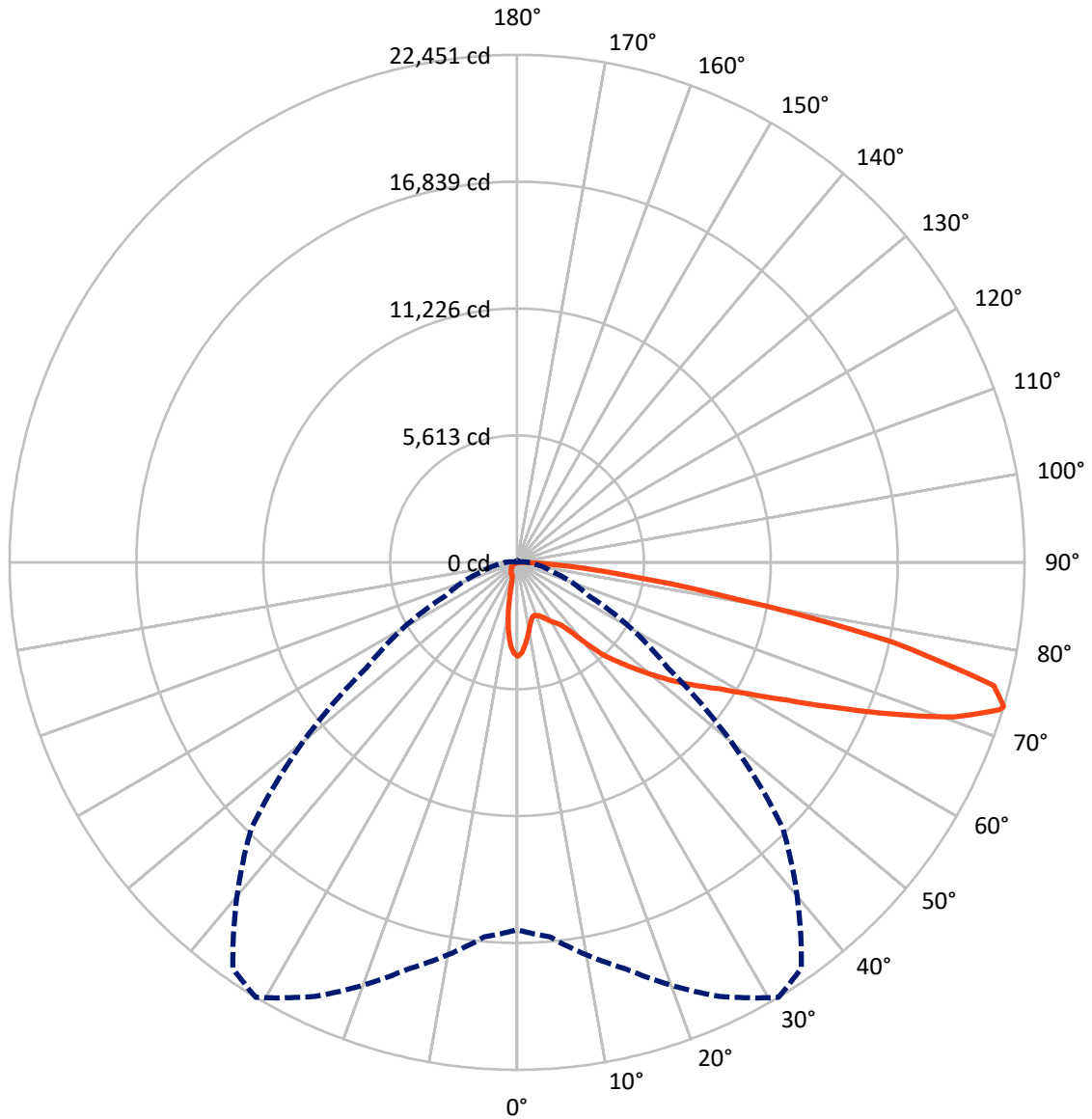
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P322512
CATALOG NUMBER: GAN-SA8A-730-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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 CATALOG NUMBER: GAN-SA8A-730-U-T4FT-HSS

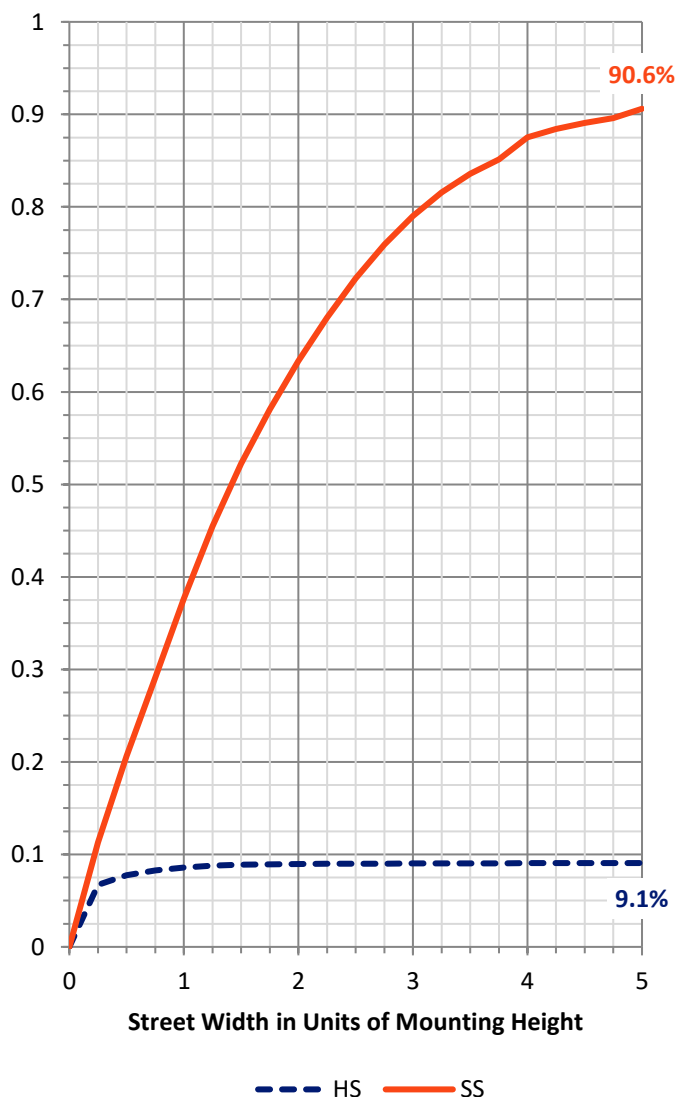
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2201.6	0.0	2201.6
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	21951.4	0.0	21951.4
	% Fixture	90.9	0.0	90.9
Total	Lumens	24153.0	0.0	24153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.6	1.4
10°-20°	748.1	3.1
20°-30°	1120.9	4.6
30°-40°	1783.4	7.4
40°-50°	3184.6	13.2
50°-60°	4941.6	20.5
60°-70°	6569.2	27.2
70°-80°	4941.4	20.5
80°-90°	519.2	2.1
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°	24153.0	100.0
0°-180°	24153.0	100.0

Coefficient of Utilization

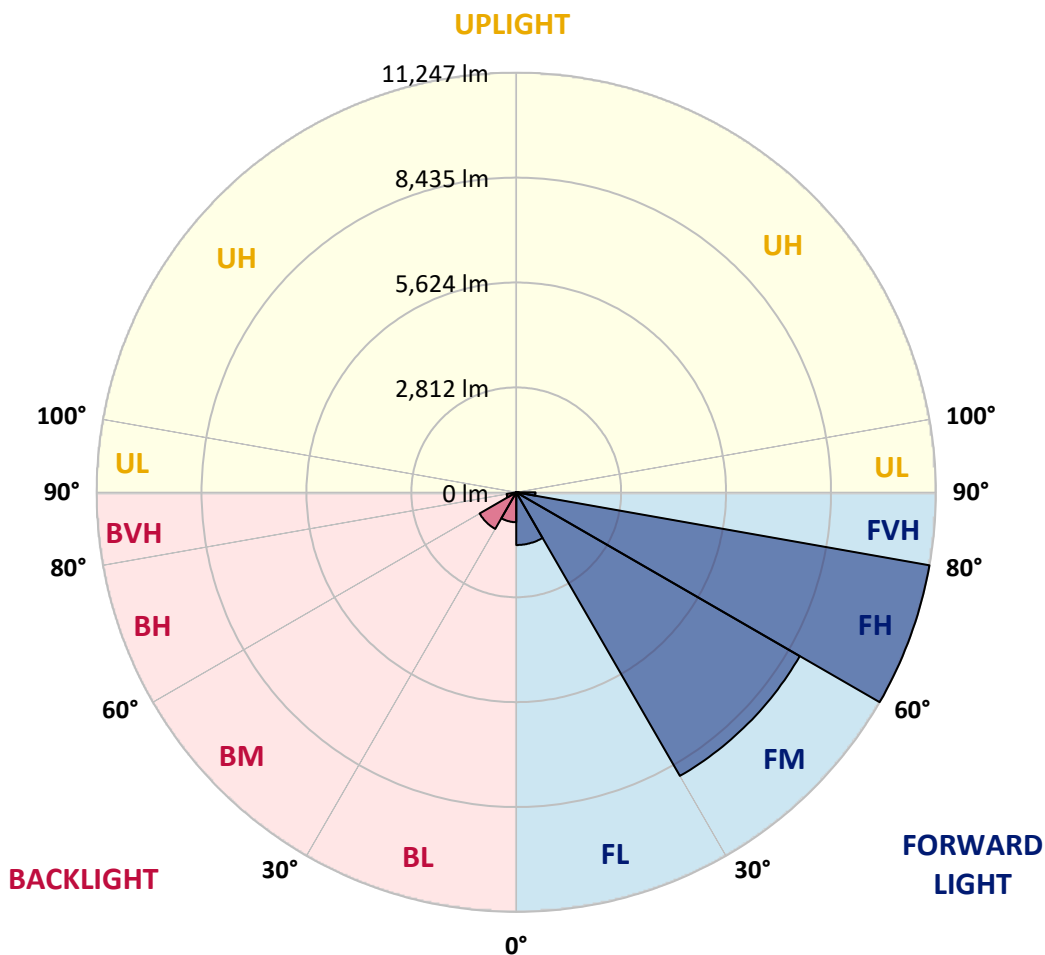


REPORT NUMBER: P322512
 CATALOG NUMBER: GAN-SA8A-730-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1413.0	5.9			
FM (30°-60°)	8776.4	36.3			
FH (60°-80°)	11247.2	46.6			G4/12000
FVH (80°-90°)	514.9	2.1			G4/750
BL (0°-30°)	800.6	3.3	B2/1000		
BM (30°-60°)	1133.2	4.7	B2/2500		
BH (60°-80°)	263.4	1.1	B1/500		G1/500
BVH (80°-90°)	4.4	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-G4
 Type IV Short





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CATALOG NUMBER: GAN-SA8A-730-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	4155.6	4155.6	4155.6	4155.6	4155.6	4155.6	4155.6	4155.6	4155.6	4155.6	4155.6
2.5°	3938.1	3954.6	3972.4	3975.9	4005.5	4006.7	4049.2	4081.1	4113.0	4143.8	4154.4
5°	3533.9	3561.1	3593.0	3624.9	3687.5	3712.4	3816.4	3922.7	4024.4	4121.3	4168.6
7.5°	3102.5	3133.2	3178.1	3257.3	3327.1	3375.5	3539.8	3728.9	3918.0	4096.5	4199.3
10°	2708.9	2737.3	2784.6	2868.5	2976.0	3042.2	3263.2	3525.6	3803.4	4074.0	4245.4
12.5°	2458.4	2473.7	2499.7	2589.6	2686.5	2760.9	3020.9	3346.0	3708.8	4072.8	4319.9
15°	2412.3	2417.0	2395.7	2435.9	2511.5	2583.6	2847.2	3200.6	3636.7	4091.8	4416.8
17.5°	2485.5	2483.2	2412.3	2407.5	2467.8	2526.9	2762.1	3100.1	3585.9	4135.5	4542.1
20°	2596.6	2588.4	2465.5	2443.0	2506.8	2562.4	2756.2	3062.3	3567.0	4208.8	4694.5
22.5°	2744.4	2730.2	2537.5	2513.9	2582.5	2640.4	2829.5	3099.0	3583.5	4306.9	4871.8
25°	2927.6	2906.3	2661.6	2635.6	2705.4	2763.3	2960.7	3204.1	3633.2	4426.2	5096.4
27.5°	3134.4	3103.7	2860.2	2792.8	2872.0	2932.3	3135.6	3364.9	3711.2	4552.7	5371.8
30°	3329.4	3289.2	3069.4	2958.3	3055.2	3122.6	3324.7	3556.3	3836.5	4747.7	5748.8
32.5°	3525.6	3480.7	3256.1	3123.8	3211.2	3284.5	3519.7	3819.9	4071.7	5045.5	6249.9
35°	3977.1	3929.8	3654.4	3435.8	3434.6	3476.0	3792.7	4180.4	4382.5	5460.4	6847.9
37.5°	4737.1	4709.9	4447.5	4032.7	3921.6	3875.5	4165.0	4610.6	4829.3	6031.3	7522.8
40°	5569.1	5545.5	5251.2	4875.4	4706.3	4592.9	4699.2	5209.8	5460.4	6728.6	8211.9
42.5°	6508.7	6396.5	5871.7	5759.4	5608.1	5521.9	5426.1	5948.5	6235.7	7487.4	8895.0
45°	7362.1	7173.0	6492.2	6322.0	6287.7	6309.0	6362.2	6941.3	7108.0	8389.2	9575.8
47.5°	7870.3	7721.4	7199.0	7035.9	7026.4	7167.1	7568.9	8062.9	7976.7	9175.1	10175.0
50°	8353.7	8219.0	7785.2	7825.4	7869.1	8060.6	8938.7	9216.5	8769.7	9887.8	10724.6
52.5°	8744.9	8539.3	8312.3	8538.1	8753.2	9061.7	10352.3	10251.8	9332.3	10455.1	11195.0
55°	8970.6	8877.3	8987.2	9214.1	9618.3	10119.5	11686.7	11113.4	9743.6	10972.8	11508.2
57.5°	9798.0	9614.8	9833.4	10029.6	10556.8	11257.6	12829.6	11755.2	10040.3	11293.1	11580.3
60°	10799.1	10651.3	10780.1	11106.3	11817.9	12641.6	13898.0	12278.8	10195.1	11498.7	11393.6
62.5°	12392.3	12197.2	12116.9	12482.1	13425.2	14324.7	14708.8	12641.6	10160.8	11407.7	10753.0
65°	14526.8	14324.7	13965.4	14296.3	15495.9	16130.6	15615.3	12718.5	9924.4	10671.4	9133.8
67.5°	16713.3	16566.7	16259.4	16817.3	17899.9	18104.4	16573.8	12531.7	9163.3	8652.7	6453.2
70°	18157.6	18094.9	18294.7	19528.6	20494.2	20435.1	17453.2	11528.3	7142.2	5320.9	3192.3
72.5°	17116.3	17416.5	18891.5	21128.9	22308.4	21826.2	17001.7	8852.5	4082.3	2047.1	923.1
73°	16253.5	16637.7	18623.3	21189.2	22451.4	21923.1	16622.3	8125.6	3479.5	1615.7	699.7
75°	11307.3	11778.9	15417.9	19734.2	21782.5	20887.8	13855.5	4973.5	1612.1	716.2	282.5
77.5°	5489.9	5838.6	8489.6	14258.5	16940.2	16319.7	8625.5	1853.2	728.1	447.9	130.0
80°	2049.4	2278.7	3685.2	7256.9	9789.7	10046.2	3793.9	700.9	484.6	360.5	66.2
82.5°	536.6	598.0	1359.2	3236.1	5017.2	5251.2	1196.1	353.4	354.6	296.7	40.2
85°	171.4	196.2	424.3	1452.6	2363.8	2075.4	312.0	171.4	257.7	221.0	22.5
87.5°	21.3	27.2	134.7	341.6	521.2	289.6	48.5	50.8	109.9	122.9	13.0
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°	4155.6	4155.6	4155.6	4155.6	4155.6	4155.6	4155.6	4155.6	4155.6	4155.6	4155.6
2.5°	4165.0	4159.1	4160.3	4129.6	4109.5	4069.3	4027.9	4009.0	3988.9	3980.7	3988.9
5°	4186.3	4175.7	4144.9	4050.4	3949.9	3819.9	3698.2	3606.0	3490.2	3458.2	3491.3
7.5°	4219.4	4198.1	4108.3	3915.6	3692.3	3444.1	3165.1	2961.9	2795.2	2687.6	2726.7
10°	4267.9	4227.7	4046.8	3719.5	3320.0	2880.3	2484.4	2175.9	1957.2	1867.4	1863.9
12.5°	4349.4	4273.8	3971.2	3464.2	2864.9	2278.7	1759.9	1425.4	1248.1	1133.4	1131.1
15°	4439.2	4328.1	3875.5	3158.0	2335.4	1632.2	1133.4	879.3	764.7	728.1	723.3
17.5°	4549.1	4390.8	3751.4	2781.0	1781.1	1081.4	739.9	666.6	661.9	658.3	658.3
20°	4687.4	4465.2	3591.8	2349.6	1263.5	722.1	628.8	633.5	635.9	631.1	632.3
22.5°	4848.2	4540.9	3401.5	1886.3	854.5	604.0	601.6	607.5	609.9	607.5	608.7
25°	5034.9	4628.3	3169.9	1400.6	617.0	573.2	579.1	587.4	593.3	593.3	593.3
27.5°	5266.6	4734.7	2890.9	977.4	533.0	541.3	557.9	573.2	581.5	583.9	583.9
30°	5567.9	4867.1	2556.5	670.1	484.6	498.8	529.5	559.0	574.4	576.8	578.0
32.5°	5948.5	5016.0	2168.8	495.2	443.2	453.9	486.9	536.6	566.1	570.9	570.9
35°	6384.6	5188.6	1751.6	431.4	413.7	417.2	443.2	499.9	551.9	564.9	566.1
37.5°	6862.1	5358.8	1332.0	403.0	388.8	388.8	407.8	456.2	517.7	557.9	562.6
40°	7307.7	5461.6	933.7	380.6	366.4	366.4	382.9	418.4	476.3	536.6	549.6
42.5°	7719.0	5497.0	650.0	359.3	345.1	348.7	362.8	391.2	434.9	495.2	507.0
45°	8142.1	5491.1	473.9	334.5	323.8	334.5	345.1	366.4	398.3	432.6	434.9
47.5°	8461.2	5441.5	375.8	310.8	303.7	317.9	327.4	341.6	359.3	356.9	356.9
50°	8760.3	5320.9	302.6	278.9	283.7	300.2	304.9	309.7	310.8	288.4	286.0
52.5°	8987.2	5133.0	242.3	244.7	263.6	280.1	275.4	268.3	256.5	229.3	224.6
55°	9062.8	4771.3	190.3	202.1	234.0	255.3	237.6	222.2	199.7	177.3	172.6
57.5°	8925.7	4304.5	154.8	157.2	197.4	215.1	195.0	177.3	152.5	133.6	130.0
60°	8635.0	3785.6	127.6	118.2	152.5	167.8	154.8	137.1	114.6	100.5	99.3
62.5°	8058.2	3232.5	105.2	92.2	115.8	128.8	120.6	107.6	88.6	79.2	78.0
65°	6845.6	2586.0	85.1	74.5	89.8	100.5	93.4	83.9	69.7	62.6	61.5
67.5°	4778.4	1748.0	69.7	61.5	70.9	79.2	73.3	68.6	55.5	54.4	55.5
70°	2304.7	842.7	57.9	49.6	55.5	61.5	59.1	55.5	53.2	61.5	70.9
72.5°	660.7	282.5	46.1	41.4	44.9	48.5	50.8	49.6	57.9	74.5	86.3
73°	508.2	228.1	43.7	39.0	42.5	47.3	49.6	48.5	59.1	75.6	86.3
75°	217.5	109.9	33.1	31.9	35.5	41.4	43.7	43.7	59.1	76.8	82.7
77.5°	98.1	59.1	21.3	24.8	30.7	33.1	36.6	36.6	47.3	59.1	59.1
80°	55.5	31.9	16.5	18.9	22.5	22.5	22.5	20.1	21.3	23.6	26.0
82.5°	35.5	21.3	13.0	15.4	14.2	11.8	9.5	9.5	8.3	9.5	11.8
85°	20.1	11.8	11.8	9.5	5.9	4.7	5.9	4.7	1.2	0.0	1.2
87.5°	11.8	7.1	3.5	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)