

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: McGRAW-EDISON

Report Number: P453966

Luminaire Tested: **GALN-SA5A-740-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18743 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

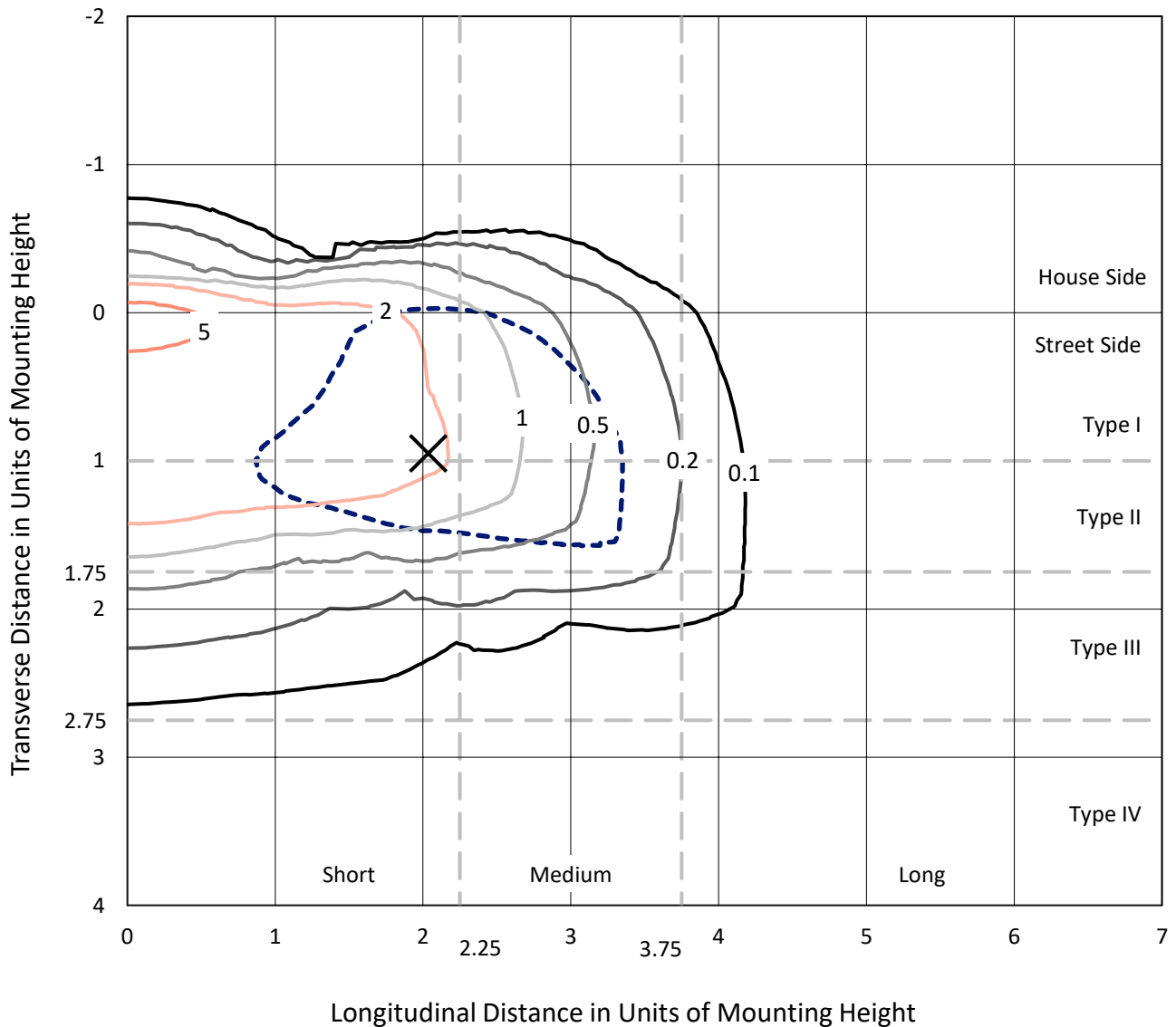
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453966
 CATALOG NUMBER: GALN-SA5A-740-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

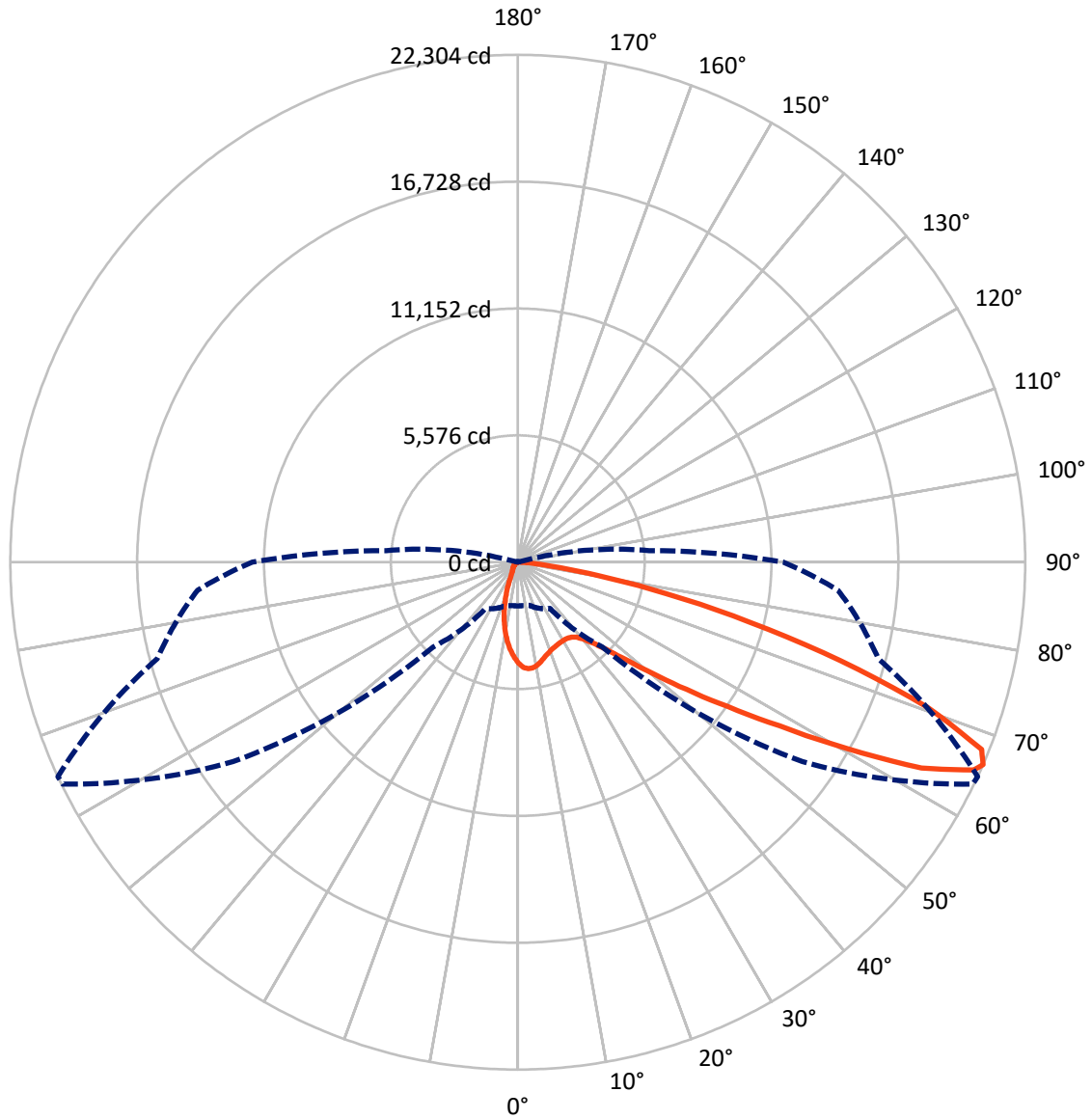
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P453966
CATALOG NUMBER: GALN-SA5A-740-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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 CATALOG NUMBER: GALN-SA5A-740-U-SL2-HSS

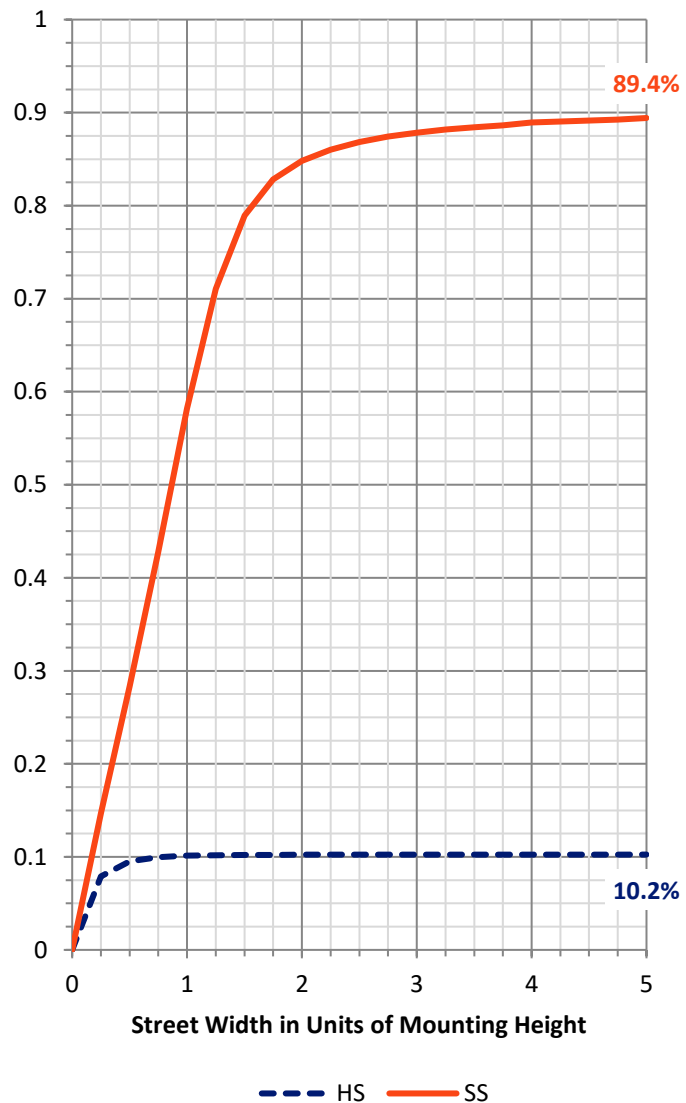
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1938.3	0.0	1938.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	16804.7	0.0	16804.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	18743.0	0.0	18743.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.5	1.9
10°-20°	792.0	4.2
20°-30°	1134.6	6.1
30°-40°	1657.1	8.8
40°-50°	2778.7	14.8
50°-60°	4637.3	24.7
60°-70°	4922.3	26.3
70°-80°	2229.3	11.9
80°-90°	228.1	1.2
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°	18743.0	100.0
0°-180°	18743.0	100.0



REPORT NUMBER: P453966

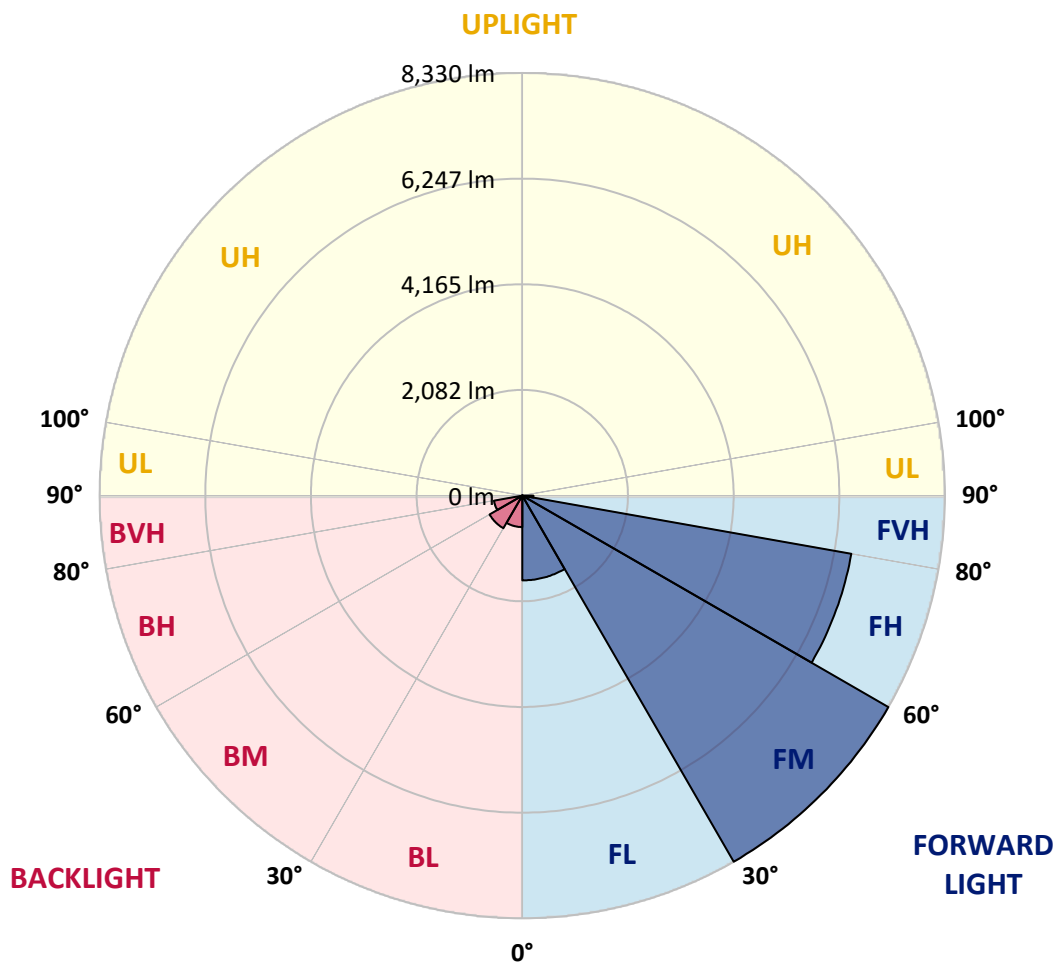
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1670.1	8.9			
FM (30°-60°)	8329.8	44.4			
FH (60°-80°)	6584.0	35.1			G3/7500
FVH (80°-90°)	220.8	1.2			G2/225
BL (0°-30°)	620.0	3.3	B2/1000		
BM (30°-60°)	743.3	4.0	B1/1000		
BH (60°-80°)	567.6	3.0	B2/1000		G2/1000
BVH (80°-90°)	7.3	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-G3

Type II Short





REPORT NUMBER: P453966

CATALOG NUMBER: GALN-SA5A-740-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4444.7	4444.7	4444.7	4444.7	4444.7	4444.7	4444.7	4444.7	4444.7	4444.7	4444.7
2.5°	4683.9	4689.0	4695.3	4704.2	4710.5	4691.5	4664.9	4634.5	4628.2	4563.7	4485.2
5°	4433.3	4440.9	4496.6	4526.9	4595.3	4657.3	4696.6	4701.6	4699.1	4638.3	4513.0
7.5°	4076.3	4097.8	4152.2	4205.4	4333.3	4451.0	4590.2	4687.7	4694.0	4677.6	4521.9
10°	3786.4	3800.3	3828.2	3933.2	4039.6	4219.3	4414.3	4597.8	4613.0	4678.9	4514.3
12.5°	3559.8	3580.0	3614.2	3695.2	3823.1	3992.7	4214.3	4461.1	4492.8	4654.8	4492.8
15°	3401.5	3411.7	3445.8	3525.6	3649.7	3806.6	4030.7	4318.1	4345.9	4623.2	4489.0
17.5°	3326.8	3338.2	3362.3	3425.6	3528.1	3673.7	3892.7	4202.9	4238.3	4602.9	4502.9
20°	3347.1	3357.2	3358.5	3391.4	3461.0	3583.8	3791.4	4095.3	4140.8	4590.2	4525.7
22.5°	3462.3	3463.6	3448.4	3433.2	3457.2	3545.9	3729.4	4026.9	4073.7	4587.7	4552.3
25°	3634.5	3638.3	3612.9	3559.8	3511.7	3557.2	3715.5	3982.6	4024.4	4581.4	4568.7
27.5°	3872.5	3871.2	3863.6	3775.0	3638.3	3607.9	3726.9	3958.5	3994.0	4563.7	4575.0
30°	4205.4	4195.3	4178.8	4078.8	3869.9	3730.7	3775.0	3943.4	3976.3	4538.3	4558.6
32.5°	4533.3	4571.2	4568.7	4473.8	4213.0	3949.7	3875.0	3963.6	3987.7	4521.9	4534.5
35°	4915.6	4914.3	5011.8	4976.3	4671.3	4229.4	4045.9	4030.7	4049.7	4533.3	4523.1
37.5°	5270.0	5303.0	5454.9	5491.6	5213.1	4624.4	4287.7	4175.0	4181.3	4610.5	4551.0
40°	5711.8	5775.1	6001.7	6124.5	5878.9	5210.5	4644.7	4439.6	4440.9	4800.4	4656.1
42.5°	6281.5	6381.5	6592.9	6798.0	6666.4	5904.3	5180.2	4858.6	4856.1	5134.6	4896.6
45°	6974.0	7043.6	7284.1	7609.5	7525.9	6872.7	5960.0	5508.0	5475.1	5682.7	5323.2
47.5°	7571.5	7666.4	7910.8	8281.7	8661.4	8055.1	6891.7	6400.5	6379.0	6555.0	6054.9
50°	7832.3	7915.8	8172.8	8693.1	9613.4	9607.1	8279.1	7703.1	7666.4	7761.4	7186.6
52.5°	7546.2	7624.7	7884.2	8532.3	10061.6	11498.4	10289.4	9337.4	9293.1	9171.6	8538.7
55°	6566.3	6630.9	7014.5	7758.8	9889.4	12759.2	13059.3	11356.6	11184.4	10712.2	10069.2
57.5°	5228.3	5195.3	5433.3	6298.0	8879.2	13182.1	15902.5	13872.0	13564.4	12044.0	11364.2
60°	3623.1	3724.3	3820.6	4390.2	6676.5	12449.1	17671.0	17034.3	16629.2	13354.2	12604.8
62.5°	2663.5	2730.6	2793.9	3057.2	4197.8	9940.0	17983.7	20282.6	19923.1	14745.5	13788.4
65°	2106.5	2111.6	2136.9	2396.4	2766.0	6463.8	16481.1	22114.4	22022.0	16084.8	14268.2
66°	1919.1	1920.4	1959.6	2238.2	2482.5	5263.7	15277.2	22253.7	22304.3	16406.4	14127.7
67.5°	1677.3	1672.3	1729.3	2011.6	2260.9	3795.2	13122.6	21689.1	21989.1	16653.2	13622.6
70°	1300.1	1293.8	1363.4	1687.5	2082.4	2531.8	8722.2	18623.0	19106.6	16148.1	12052.9
72.5°	865.9	871.0	990.0	1331.8	1987.5	2229.3	5247.3	14166.9	14850.5	13335.2	9481.8
75°	505.1	514.0	649.4	990.0	1725.5	2125.5	2969.9	10102.1	10538.8	9208.3	5906.8
77.5°	264.6	268.4	363.3	653.2	1322.9	1973.6	1978.6	6453.7	6658.8	4475.0	2338.2
80°	140.5	136.7	195.0	393.7	910.2	1733.0	1605.2	3416.7	3552.2	1329.2	591.2
82.5°	53.2	58.2	103.8	258.2	538.0	1244.4	1382.4	1510.2	1463.4	292.4	248.1
85°	10.1	12.7	44.3	153.2	270.9	520.3	1019.1	740.6	686.1	110.1	143.0
87.5°	1.3	2.5	12.7	36.7	39.2	176.0	301.3	205.1	177.2	40.5	59.5
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°	4444.7	4444.7	4444.7	4444.7	4444.7	4444.7	4444.7	4444.7	4444.7	4444.7	4444.7
2.5°	4447.2	4413.0	4299.1	4186.4	4071.2	3967.4	3896.5	3781.3	3752.2	3710.4	3686.4
5°	4438.3	4358.6	4139.6	3900.3	3677.5	3437.0	3253.4	3076.2	2981.2	2933.1	2915.4
7.5°	4413.0	4286.4	3944.6	3569.9	3212.9	2853.4	2540.7	2302.7	2149.5	2044.5	1973.6
10°	4362.4	4187.7	3718.0	3202.8	2663.5	2188.8	1792.5	1491.3	1258.3	1184.9	1187.4
12.5°	4310.5	4077.5	3464.8	2795.2	2126.8	1528.0	1107.7	869.7	758.3	721.6	714.0
15°	4262.4	3972.5	3216.7	2400.2	1583.7	990.0	714.0	630.4	600.0	593.7	592.5
17.5°	4237.0	3875.0	2952.1	1948.3	1105.2	672.2	572.2	549.4	540.5	534.2	531.7
20°	4215.5	3790.2	2698.9	1525.4	755.8	550.7	512.7	491.2	476.0	469.7	465.9
22.5°	4200.3	3702.8	2436.9	1181.1	578.5	488.6	454.5	426.6	405.1	397.5	392.4
25°	4177.5	3606.6	2172.3	863.4	487.4	434.2	395.0	362.1	334.2	320.3	317.7
27.5°	4144.6	3497.7	1882.4	639.3	435.5	386.1	338.0	297.5	269.6	254.5	255.7
30°	4091.5	3383.8	1592.5	507.6	393.7	336.7	284.8	245.6	219.0	207.6	206.3
32.5°	4028.2	3245.8	1326.7	435.5	355.7	292.4	238.0	203.8	183.6	174.7	173.4
35°	3968.7	3106.6	1055.8	391.2	316.5	251.9	200.0	170.9	155.7	148.1	149.4
37.5°	3935.8	2982.5	822.9	355.7	284.8	216.5	172.2	146.8	132.9	126.6	125.3
40°	3957.3	2881.2	654.5	324.1	249.4	186.1	148.1	126.6	112.7	103.8	103.8
42.5°	4058.5	2836.9	527.9	293.7	216.5	160.8	129.1	108.9	93.7	84.8	86.1
45°	4367.4	2883.8	441.8	265.8	186.1	139.3	111.4	89.9	76.0	69.6	68.4
47.5°	4880.1	3059.7	382.3	236.7	159.5	119.0	93.7	74.7	60.8	55.7	54.4
50°	5776.4	3423.1	338.0	207.6	135.5	101.3	77.2	59.5	48.1	43.0	43.0
52.5°	7009.4	4215.5	306.4	174.7	113.9	86.1	63.3	48.1	38.0	34.2	32.9
55°	8298.1	5051.0	289.9	146.8	94.9	70.9	50.6	38.0	29.1	25.3	24.1
57.5°	9537.5	5706.8	270.9	119.0	76.0	54.4	39.2	29.1	20.3	17.7	16.5
60°	10726.2	6237.2	230.4	94.9	59.5	39.2	29.1	20.3	13.9	11.4	11.4
62.5°	11789.5	6546.1	181.0	76.0	45.6	27.9	19.0	15.2	10.1	7.6	7.6
65°	11913.6	6144.8	136.7	58.2	32.9	17.7	11.4	11.4	7.6	5.1	5.1
66°	11664.2	5804.3	120.3	53.2	29.1	15.2	10.1	8.9	6.3	3.8	3.8
67.5°	11107.2	5223.2	103.8	45.6	24.1	11.4	7.6	7.6	5.1	2.5	2.5
70°	9597.0	4266.2	82.3	34.2	17.7	8.9	5.1	5.1	3.8	2.5	2.5
72.5°	7314.5	3185.1	67.1	25.3	12.7	6.3	3.8	3.8	3.8	2.5	2.5
75°	4411.7	1715.3	51.9	19.0	11.4	5.1	2.5	3.8	5.1	3.8	2.5
77.5°	1625.4	583.6	40.5	15.2	8.9	5.1	2.5	2.5	5.1	3.8	3.8
80°	398.8	151.9	29.1	12.7	8.9	5.1	2.5	2.5	5.1	5.1	5.1
82.5°	184.8	64.6	20.3	11.4	8.9	5.1	2.5	2.5	3.8	5.1	5.1
85°	106.3	30.4	16.5	12.7	8.9	5.1	2.5	2.5	3.8	5.1	5.1
87.5°	43.0	15.2	15.2	12.7	10.1	6.3	2.5	2.5	2.5	3.8	3.8
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)