

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: P648426

Luminaire Tested: **GALN-SA5B-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648426
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-SA5B-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA 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: 18261.1 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

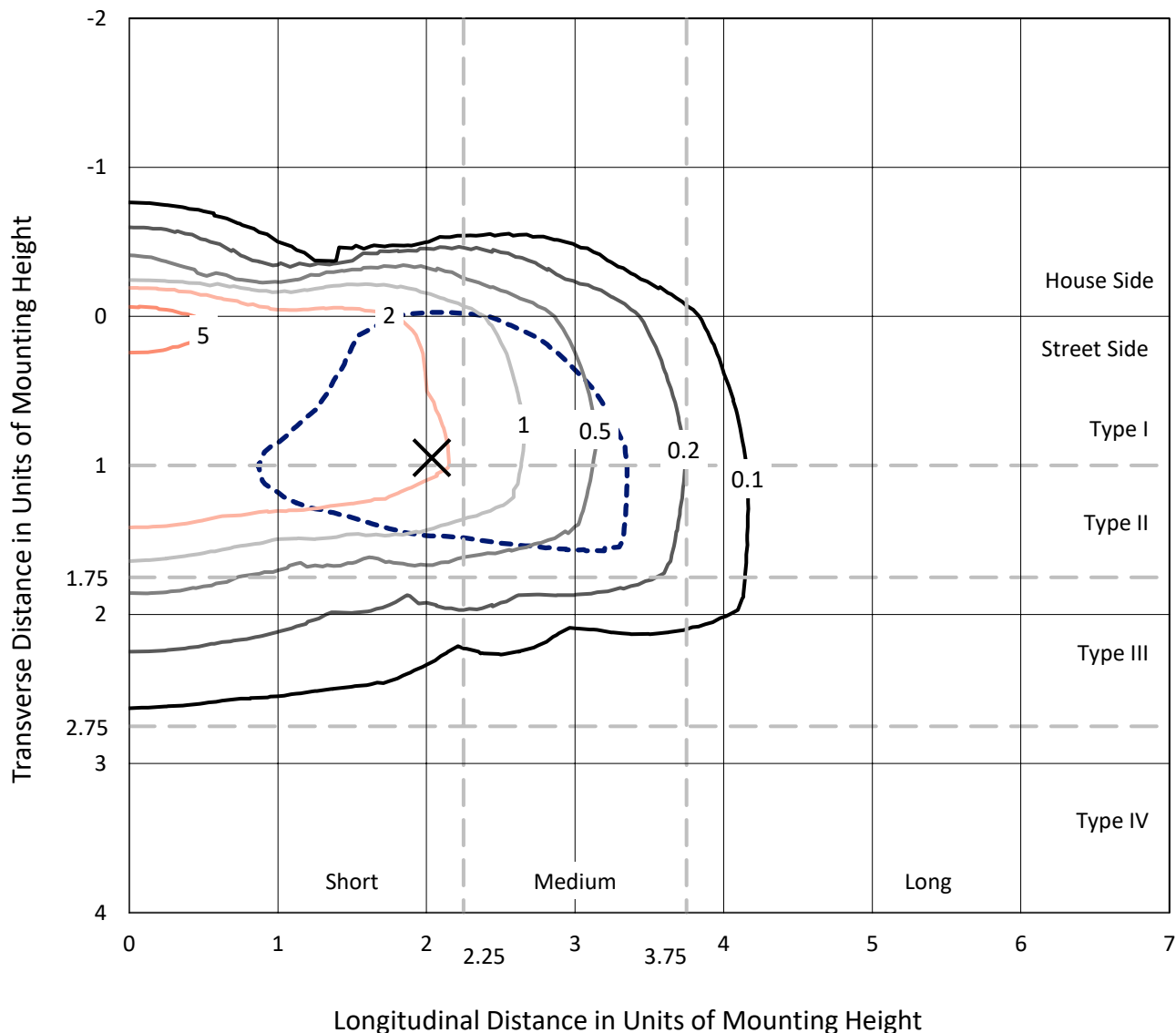
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648426
 CATALOG NUMBER: GALN-SA5B-835-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

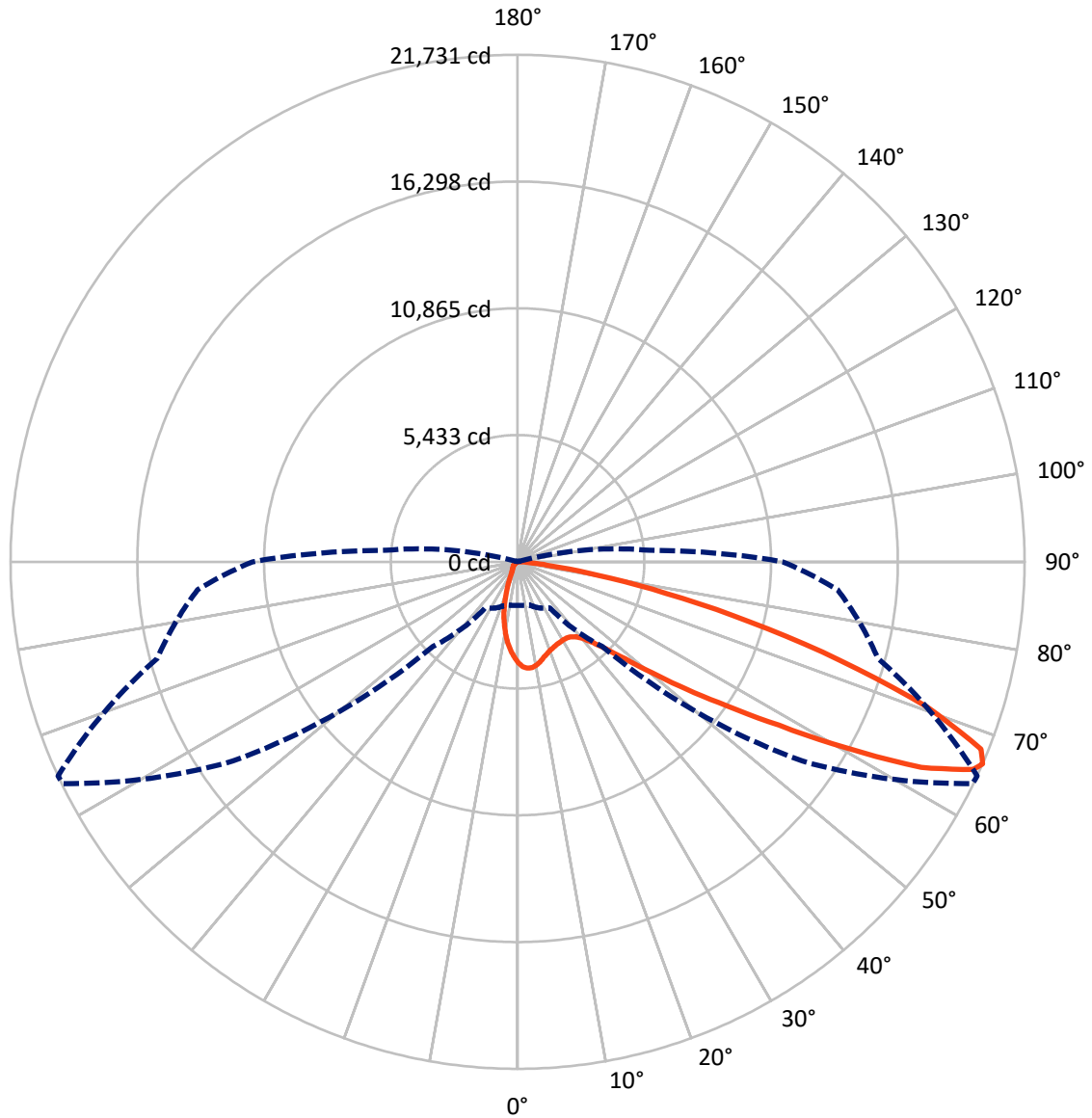
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

REPORT NUMBER: P648426
CATALOG NUMBER: GALN-SA5B-835-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-SA5B-835-U-SL2-HSS

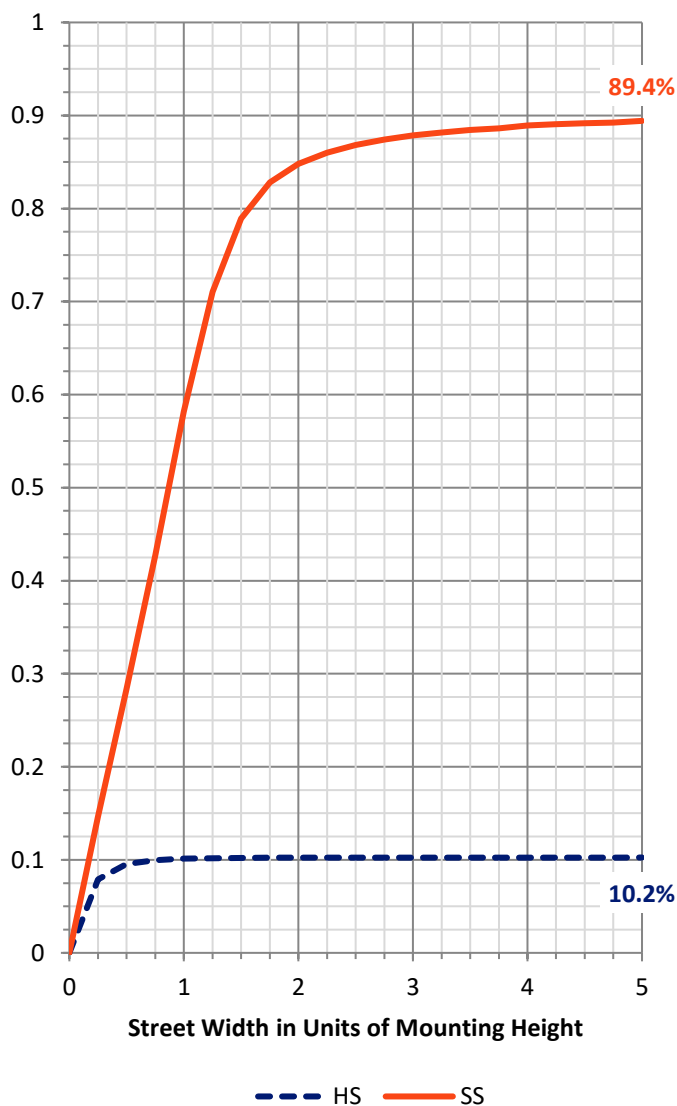
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1888.5	0.0	1888.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	16372.7	0.0	16372.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	18261.1	0.0	18261.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.2	1.9
10°-20°	771.7	4.2
20°-30°	1105.4	6.1
30°-40°	1614.5	8.8
40°-50°	2707.3	14.8
50°-60°	4518.1	24.7
60°-70°	4795.8	26.3
70°-80°	2172.0	11.9
80°-90°	222.2	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°	18261.1	100.0
0°-180°	18261.1	100.0

Coefficient of Utilization



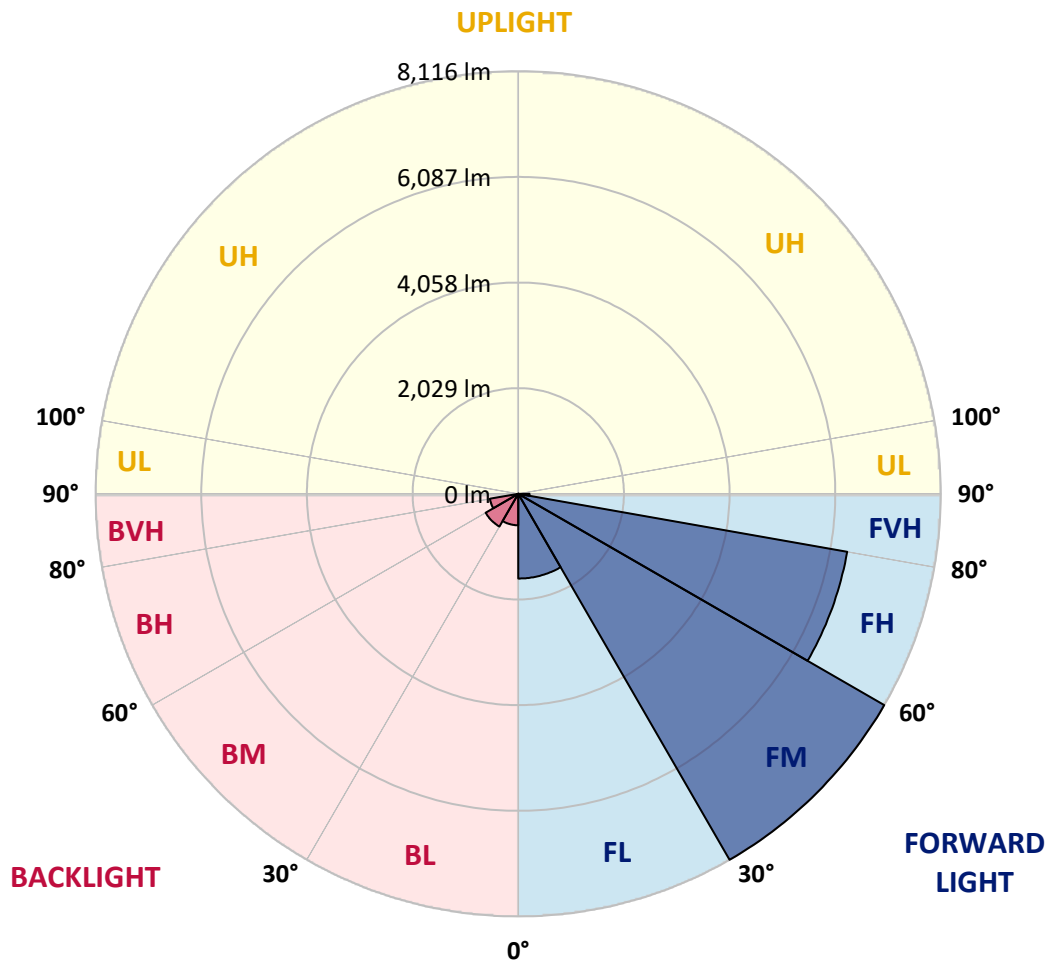
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 CATALOG NUMBER: GALN-SA5B-835-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1627.1	8.9			
FM (30°-60°)	8115.7	44.4			
FH (60°-80°)	6414.7	35.1			G3/7500
FVH (80°-90°)	215.2	1.2			G2/225
BL (0°-30°)	604.1	3.3	B2/1000		
BM (30°-60°)	724.2	4.0	B1/1000		
BH (60°-80°)	553.0	3.0	B2/1000		G2/1000
BVH (80°-90°)	7.1	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: P648426

CATALOG NUMBER: GALN-SA5B-835-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4330.4	4330.4	4330.4	4330.4	4330.4	4330.4	4330.4	4330.4	4330.4	4330.4	4330.4
2.5°	4563.5	4568.4	4574.6	4583.2	4589.4	4570.9	4545.0	4515.4	4509.2	4446.3	4369.8
5°	4319.3	4326.7	4381.0	4410.6	4477.2	4537.6	4575.9	4580.8	4578.3	4519.1	4397.0
7.5°	3971.5	3992.4	4045.4	4097.3	4221.9	4336.6	4472.3	4567.2	4573.3	4557.3	4405.6
10°	3689.0	3702.6	3729.7	3832.1	3935.7	4110.8	4300.8	4479.6	4494.4	4558.5	4398.2
12.5°	3468.2	3488.0	3521.3	3600.2	3724.8	3890.1	4105.9	4346.4	4377.3	4535.1	4377.3
15°	3314.0	3323.9	3357.3	3434.9	3555.8	3708.8	3927.1	4207.1	4234.2	4504.3	4373.5
17.5°	3241.3	3252.4	3275.8	3337.5	3437.4	3579.2	3792.6	4094.8	4129.3	4484.6	4387.1
20°	3261.0	3270.9	3272.2	3304.2	3372.1	3491.7	3694.0	3990.0	4034.4	4472.3	4409.3
22.5°	3373.3	3374.5	3359.7	3344.9	3368.4	3454.7	3633.5	3923.4	3969.0	4469.8	4435.2
25°	3541.0	3544.7	3520.1	3468.2	3421.4	3465.8	3620.0	3880.2	3920.9	4463.6	4451.3
27.5°	3772.9	3771.6	3764.3	3677.9	3544.7	3515.1	3631.1	3856.7	3891.3	4446.3	4457.5
30°	4097.3	4087.4	4071.4	3974.0	3770.5	3634.8	3677.9	3841.9	3874.0	4421.7	4441.4
32.5°	4416.7	4453.7	4451.3	4358.7	4104.6	3848.1	3775.4	3861.7	3885.2	4405.6	4417.9
35°	4789.2	4788.0	4882.9	4848.4	4551.2	4120.7	3941.9	3927.1	3945.5	4416.7	4406.9
37.5°	5134.5	5166.6	5314.6	5350.4	5079.0	4505.5	4177.5	4067.7	4073.9	4492.0	4434.0
40°	5565.0	5626.6	5847.4	5967.1	5727.8	5076.6	4525.3	4325.4	4326.7	4676.9	4536.4
42.5°	6120.0	6217.5	6423.4	6623.2	6495.0	5752.5	5047.0	4733.7	4731.2	5002.6	4770.7
45°	6794.6	6862.5	7096.9	7413.8	7332.4	6696.0	5806.7	5366.4	5334.3	5536.6	5186.4
47.5°	7376.8	7469.4	7707.4	8068.7	8438.8	7848.0	6714.5	6236.0	6215.0	6386.5	5899.3
50°	7630.9	7712.3	7962.7	8469.6	9366.2	9360.1	8066.3	7505.1	7469.4	7561.8	7001.9
52.5°	7352.1	7428.6	7681.5	8313.0	9802.8	11202.8	10024.9	9097.4	9054.2	8935.8	8319.1
55°	6397.5	6460.5	6834.2	7559.4	9635.1	12431.2	12723.5	11064.7	10896.9	10436.8	9810.3
57.5°	5093.9	5061.8	5293.6	6136.1	8650.9	12843.2	15493.7	13515.4	13215.6	11734.4	11072.0
60°	3529.9	3628.6	3722.3	4277.4	6504.9	12129.1	17216.7	16596.3	16201.6	13010.9	12280.7
62.5°	2595.0	2660.4	2722.1	2978.6	4089.8	9684.5	17521.3	19761.2	19410.9	14366.4	13433.9
65°	2052.3	2057.3	2081.9	2334.7	2694.9	6297.6	16057.4	21545.9	21455.8	15671.3	13901.4
66°	1869.8	1871.1	1909.3	2180.6	2418.7	5128.4	14884.4	21681.5	21730.8	15984.6	13764.5
67.5°	1634.2	1629.3	1684.8	1959.8	2202.8	3697.6	12785.2	21131.4	21423.7	16225.1	13272.4
70°	1266.7	1260.5	1328.4	1644.1	2028.9	2466.8	8498.0	18144.2	18615.4	15733.0	11743.0
72.5°	843.6	848.5	964.5	1297.5	1936.4	2172.0	5112.4	13802.7	14468.7	12992.4	9238.0
75°	492.1	500.7	632.7	964.5	1681.1	2070.9	2893.5	9842.3	10267.9	8971.6	5755.0
77.5°	257.8	261.4	354.0	636.4	1288.9	1922.8	1927.7	6287.7	6487.5	4360.0	2278.1
80°	136.9	133.2	190.0	383.6	886.8	1688.5	1563.9	3328.8	3460.9	1295.1	576.0
82.5°	51.8	56.8	101.2	251.6	524.2	1212.4	1346.8	1471.4	1425.8	284.9	241.7
85°	9.9	12.4	43.1	149.2	263.9	506.9	992.8	721.5	668.5	107.3	139.4
87.5°	1.3	2.5	12.4	35.8	38.2	171.5	293.5	199.8	172.7	39.5	57.9
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°	4330.4	4330.4	4330.4	4330.4	4330.4	4330.4	4330.4	4330.4	4330.4	4330.4	4330.4
2.5°	4332.9	4299.5	4188.6	4078.8	3966.5	3865.4	3796.3	3684.1	3655.7	3615.0	3591.6
5°	4324.2	4246.5	4033.2	3800.1	3582.9	3348.7	3169.7	2997.1	2904.6	2857.7	2840.5
7.5°	4299.5	4176.2	3843.2	3478.1	3130.3	2780.0	2475.4	2243.5	2094.3	1991.9	1922.8
10°	4250.2	4080.0	3622.4	3120.4	2595.0	2132.5	1746.5	1452.9	1225.9	1154.5	1156.9
12.5°	4199.6	3972.7	3375.7	2723.3	2072.1	1488.7	1079.2	847.4	738.8	703.1	695.6
15°	4152.8	3870.4	3134.0	2338.5	1543.0	964.5	695.6	614.2	584.6	578.5	577.2
17.5°	4128.1	3775.4	2876.3	1898.1	1076.7	654.9	557.5	535.3	526.6	520.5	518.0
20°	4107.1	3692.7	2629.5	1486.2	736.3	536.5	499.6	478.6	463.8	457.6	453.9
22.5°	4092.3	3607.6	2374.2	1150.8	563.7	476.1	442.8	415.6	394.7	387.3	382.3
25°	4070.1	3513.9	2116.4	841.2	474.8	423.1	384.8	352.7	325.6	312.0	309.6
27.5°	4038.1	3407.9	1834.0	622.9	424.3	376.2	329.3	289.9	262.7	247.9	249.2
30°	3986.3	3296.8	1551.6	494.6	383.6	328.1	277.5	239.3	213.4	202.2	201.1
32.5°	3924.6	3162.4	1292.6	424.3	346.6	284.9	231.8	198.6	178.8	170.2	169.0
35°	3866.6	3026.7	1028.6	381.1	308.3	245.5	194.9	166.5	151.7	144.3	145.6
37.5°	3834.6	2905.9	801.7	346.6	277.5	210.9	167.7	143.1	129.5	123.3	122.1
40°	3855.6	2807.1	637.7	315.7	243.0	181.3	144.3	123.3	109.8	101.2	101.2
42.5°	3954.2	2764.0	514.4	286.1	210.9	156.6	125.8	106.1	91.3	82.6	83.9
45°	4255.1	2809.6	430.4	259.0	181.3	135.7	108.5	87.5	74.0	67.8	66.6
47.5°	4754.7	2981.0	372.5	230.7	155.4	116.0	91.3	72.7	59.2	54.3	53.0
50°	5627.9	3335.0	329.3	202.2	131.9	98.7	75.2	57.9	46.9	42.0	42.0
52.5°	6829.2	4107.1	298.5	170.2	111.0	83.9	61.7	46.9	37.0	33.3	32.1
55°	8084.8	4921.2	282.4	143.1	92.5	69.1	49.3	37.0	28.3	24.7	23.4
57.5°	9292.3	5560.1	263.9	116.0	74.0	53.0	38.2	28.3	19.7	17.3	16.1
60°	10450.4	6076.9	224.5	92.5	57.9	38.2	28.3	19.7	13.5	11.1	11.1
62.5°	11486.5	6377.8	176.4	74.0	44.4	27.2	18.5	14.8	9.9	7.4	7.4
65°	11607.3	5986.8	133.2	56.8	32.1	17.3	11.1	11.1	7.4	4.9	4.9
66°	11364.3	5655.1	117.1	51.8	28.3	14.8	9.9	8.6	6.2	3.7	3.7
67.5°	10821.7	5089.0	101.2	44.4	23.4	11.1	7.4	7.4	4.9	2.5	2.5
70°	9350.2	4156.5	80.2	33.3	17.3	8.6	4.9	4.9	3.7	2.5	2.5
72.5°	7126.5	3103.2	65.4	24.7	12.4	6.2	3.7	3.7	3.7	2.5	2.5
75°	4298.4	1671.2	50.6	18.5	11.1	4.9	2.5	3.7	4.9	3.7	2.5
77.5°	1583.6	568.6	39.5	14.8	8.6	4.9	2.5	2.5	4.9	3.7	3.7
80°	388.5	148.0	28.3	12.4	8.6	4.9	2.5	2.5	4.9	4.9	4.9
82.5°	180.1	62.9	19.7	11.1	8.6	4.9	2.5	2.5	3.7	4.9	4.9
85°	103.6	29.6	16.1	12.4	8.6	4.9	2.5	2.5	3.7	4.9	4.9
87.5°	42.0	14.8	14.8	12.4	9.9	6.2	2.5	2.5	2.5	3.7	3.7
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)