

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: P301831

Luminaire Tested: **GLNA-AF-06-LED-E1-SL4-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-06-LED-E1-SL4-7030-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25394.4 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 333
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: 25 FT

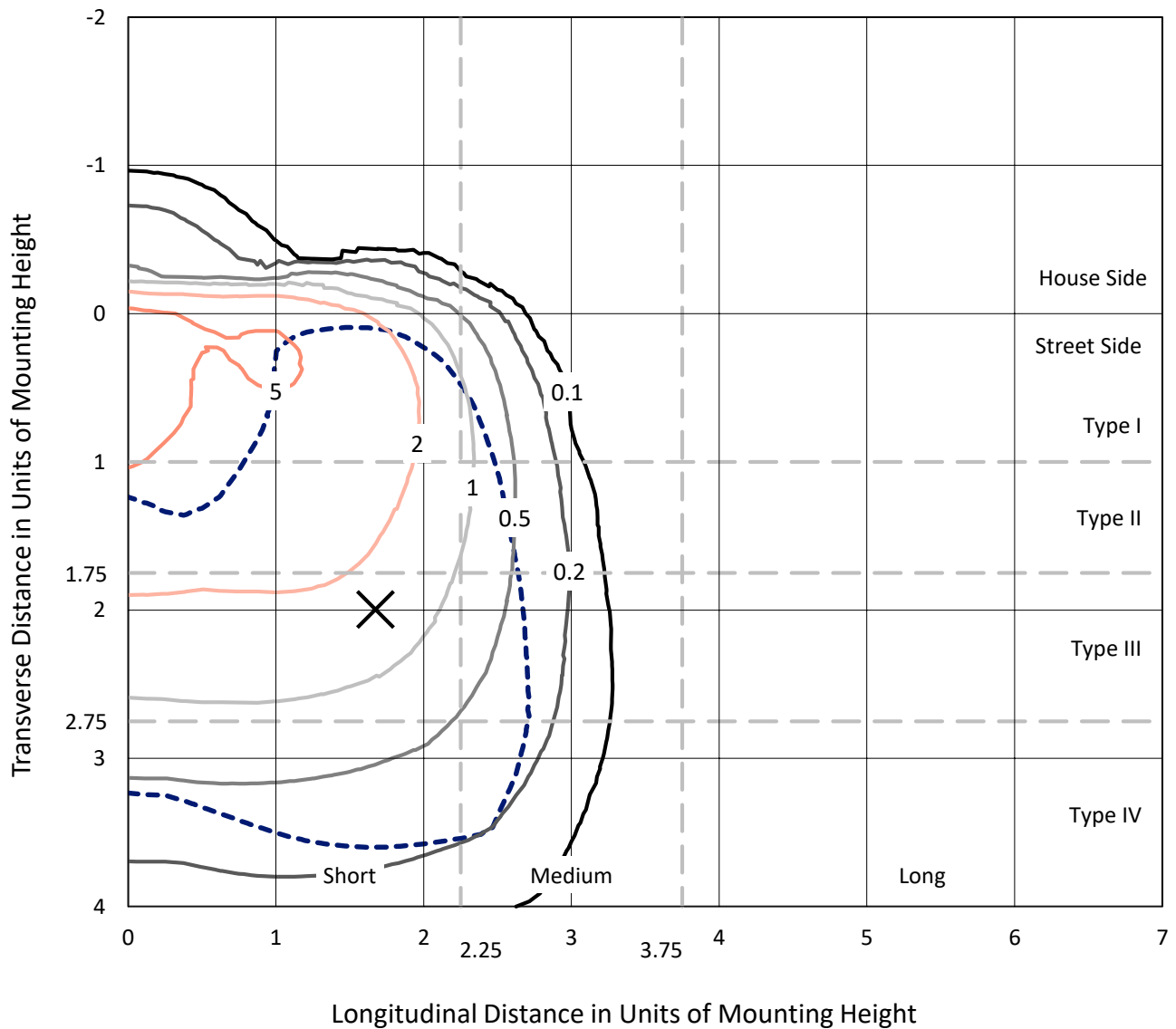


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Iso-Footcandle Lines of Horizontal Illumination

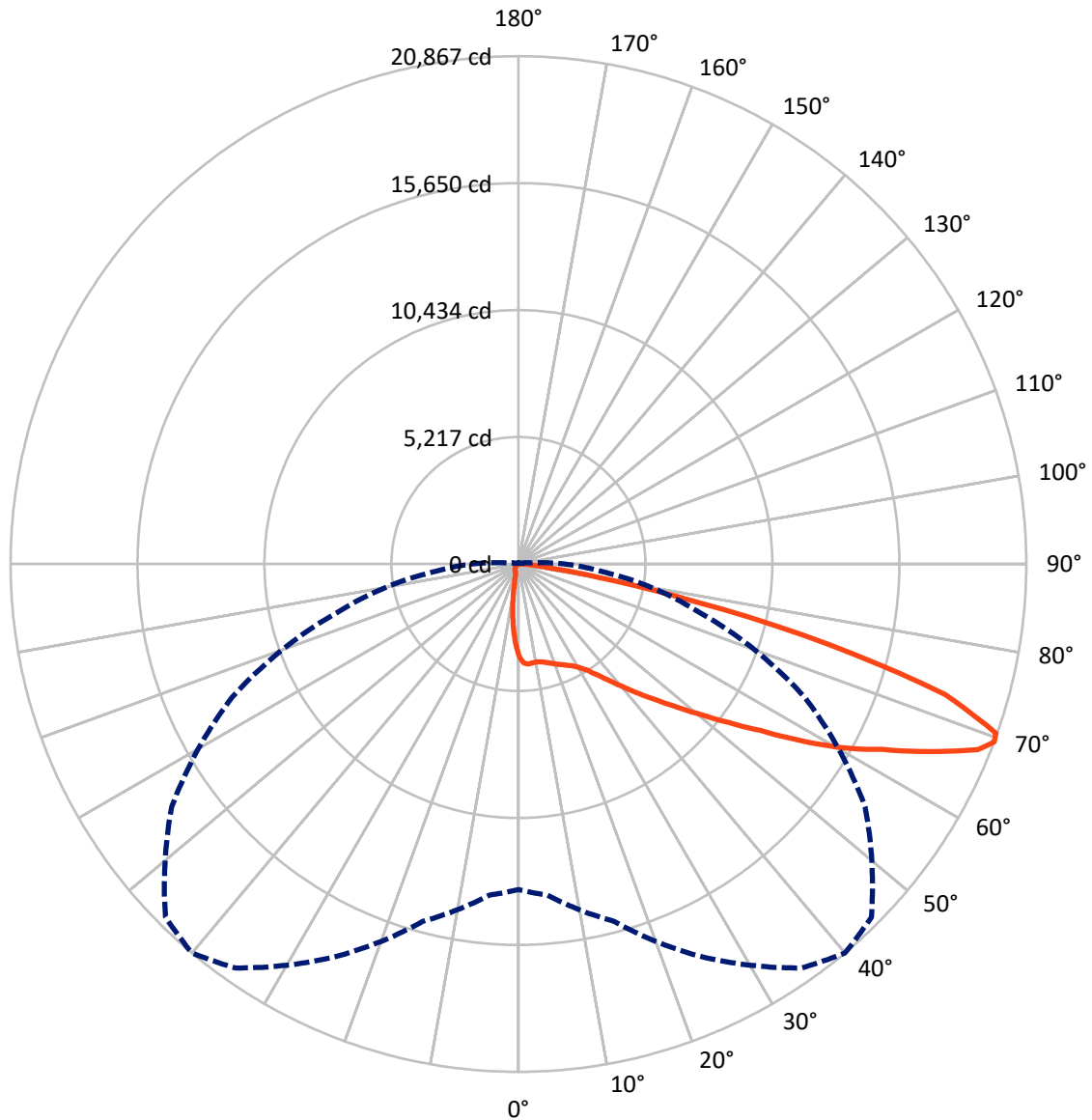
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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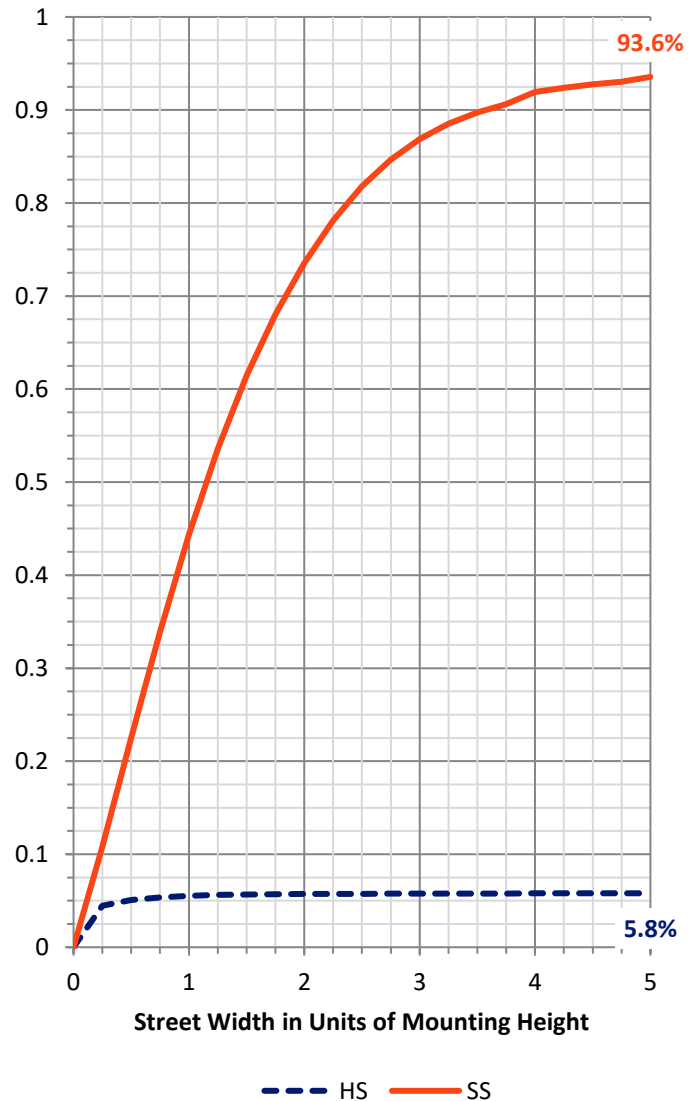
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1485.7	0.0	1485.7
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	23908.7	0.0	23908.7
	% Fixture	94.1	0.0	94.1
Total	Lumens	25394.4	0.0	25394.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.6	1.2
10°-20°	756.5	3.0
20°-30°	1274.2	5.0
30°-40°	2085.9	8.2
40°-50°	3611.7	14.2
50°-60°	5688.8	22.4
60°-70°	7429.3	29.3
70°-80°	3826.4	15.1
80°-90°	413.9	1.6
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°	25394.4	100.0
0°-180°	25394.4	100.0



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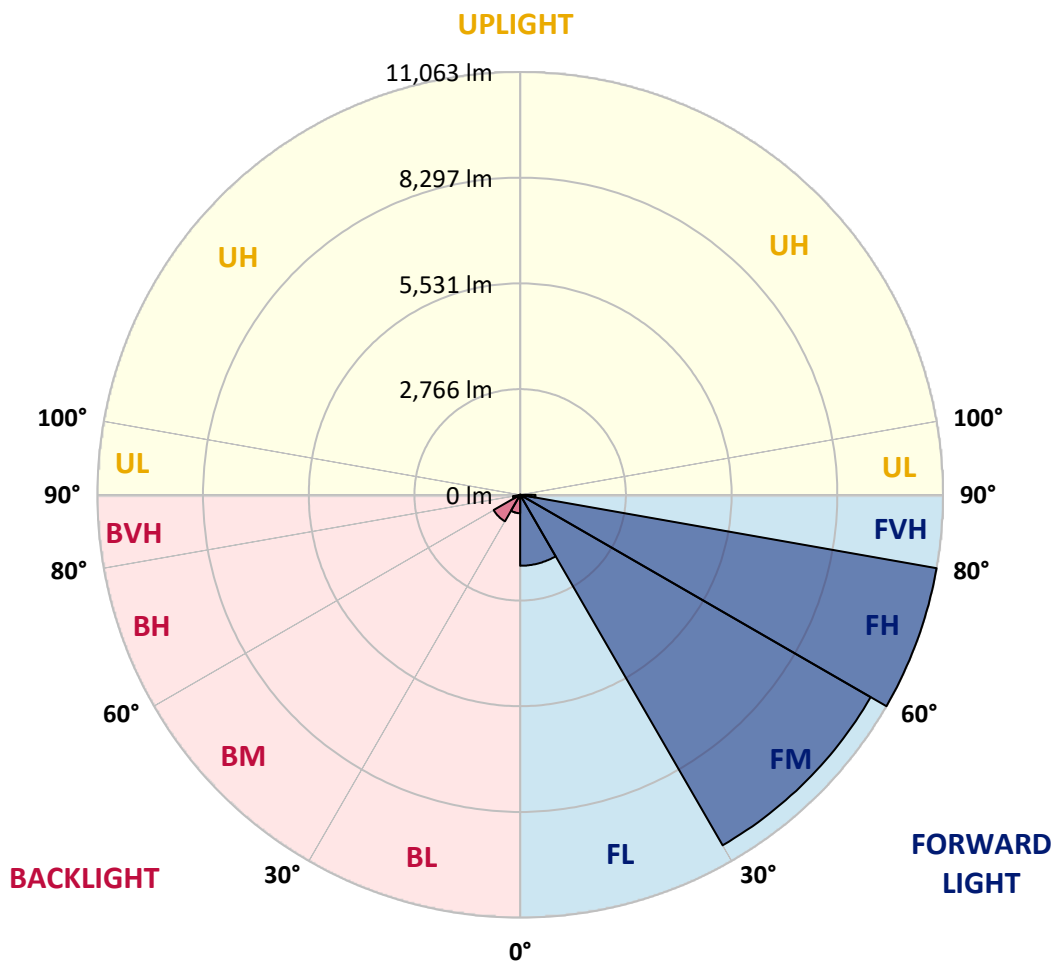
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1857.1	7.3			
FM	(30°-60°)	10587.9	41.7			
FH	(60°-80°)	11062.8	43.6			G4/12000
FVH	(80°-90°)	400.9	1.6			G3/500
BL	(0°-30°)	481.3	1.9	B1/500		
BM	(30°-60°)	798.5	3.1	B1/1000		
BH	(60°-80°)	192.9	0.8	B1/500		G1/500
BVH	(80°-90°)	13.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3794.1	3794.1	3794.1	3794.1	3794.1	3794.1	3794.1	3794.1	3794.1	3794.1	3794.1
2.5°	4165.9	4143.2	4129.6	4111.5	4088.8	4069.2	4061.6	4005.7	3952.8	3880.2	3797.1
5°	4243.0	4235.4	4211.3	4187.1	4159.9	4129.6	4113.0	4046.5	3970.9	3865.1	3720.0
7.5°	4250.6	4241.5	4211.3	4178.0	4140.2	4103.9	4075.2	4008.7	3939.2	3831.8	3655.0
10°	4238.5	4227.9	4205.2	4168.9	4122.1	4087.3	4058.6	3995.1	3936.1	3839.4	3642.9
12.5°	4224.9	4214.3	4203.7	4185.6	4144.7	4120.6	4096.4	4035.9	3983.0	3901.4	3686.7
15°	4238.5	4232.4	4244.5	4236.9	4214.3	4193.1	4168.9	4114.5	4066.1	3998.1	3766.8
17.5°	4295.9	4295.9	4333.7	4338.2	4317.1	4286.8	4252.1	4197.6	4156.8	4099.4	3862.1
20°	4430.4	4425.9	4474.3	4483.3	4431.9	4385.1	4333.7	4267.2	4235.4	4199.2	3955.8
22.5°	4661.7	4640.5	4669.3	4660.2	4558.9	4486.4	4422.9	4341.2	4324.6	4308.0	4060.1
25°	4962.5	4950.4	4970.1	4880.9	4702.5	4604.3	4528.7	4436.5	4436.5	4453.1	4178.0
27.5°	5399.3	5354.0	5287.5	5130.3	4862.7	4737.3	4655.7	4557.4	4583.1	4645.1	4333.7
30°	5846.8	5796.9	5644.2	5402.4	5057.7	4926.2	4831.0	4728.2	4788.7	4902.0	4542.3
32.5°	6288.2	6232.2	6016.1	5710.7	5337.4	5205.9	5113.7	5000.3	5101.6	5292.0	4847.6
35°	6715.9	6666.1	6416.6	6056.9	5709.2	5600.4	5515.7	5417.5	5547.5	5813.5	5278.4
37.5°	7196.6	7142.2	6838.4	6448.4	6161.2	6082.6	6020.6	5922.4	6149.1	6539.1	5878.5
40°	7787.6	7695.4	7285.8	6897.3	6684.2	6646.4	6604.1	6590.5	6942.7	7482.3	6678.1
42.5°	8464.8	8313.7	7754.4	7370.4	7258.6	7285.8	7275.2	7335.7	7935.8	8655.3	7651.6
45°	9142.0	8947.0	8275.9	7875.3	7890.4	7985.7	8044.6	8286.5	9179.8	10000.6	8699.1
47.5°	9716.4	9524.4	8776.2	8421.0	8602.4	8789.8	8950.0	9408.0	10458.6	11324.7	9513.9
50°	10207.7	10026.3	9306.8	9021.1	9429.2	9731.5	9991.5	10670.2	11834.1	12332.9	10085.2
52.5°	10609.8	10488.8	9857.0	9708.9	10373.9	10816.8	11197.8	12011.0	13052.5	13152.2	10529.6
55°	11001.3	10915.1	10448.0	10526.6	11483.4	12086.6	12568.8	13433.4	14101.5	13835.5	10955.9
57.5°	11451.7	11373.1	11122.2	11563.6	12942.1	13700.9	14227.0	14694.0	15025.1	14533.8	11358.0
60°	11911.2	11865.9	11871.9	12715.4	14616.9	15345.5	15635.7	15756.7	15932.0	15191.3	11380.7
62.5°	12349.6	12435.7	12729.0	13997.2	16220.7	16780.0	16926.6	17046.0	16840.5	15295.6	10514.5
65°	13091.8	13232.3	13932.2	15712.8	17984.7	18583.3	18734.5	18324.8	16984.1	13947.3	8552.5
67.5°	13454.5	13711.5	14960.1	17312.1	19695.8	20360.9	20305.0	18408.0	15241.2	10635.4	5488.5
69°	13379.0	13652.6	15197.4	17801.8	20264.2	20867.3	20512.1	17390.7	12984.4	7704.5	3369.3
70°	13079.7	13356.3	15074.9	17783.7	20336.7	20814.4	20128.1	16134.6	10978.6	5633.6	2107.1
72.5°	10922.6	11161.5	13383.5	16074.1	18734.5	18346.0	16839.0	11178.1	5349.5	1534.2	474.6
75°	6723.5	6856.5	9603.0	12109.2	14149.9	13152.2	11218.9	5561.1	1594.7	433.8	263.0
77.5°	3552.2	3612.7	5257.3	7137.7	8969.7	7421.8	5750.0	2169.1	734.6	272.1	190.5
80°	2099.6	2144.9	2831.2	3263.5	3881.7	3242.3	2299.1	1331.7	526.0	170.8	169.3
82.5°	1201.7	1230.4	2052.7	1813.9	1529.7	1306.0	1144.3	1262.2	315.9	114.9	175.3
85°	441.4	447.4	1154.8	1380.1	910.0	541.1	568.4	1046.0	84.6	72.6	137.6
87.5°	205.6	201.0	594.0	845.0	532.1	343.1	442.9	229.8	33.3	46.9	37.8
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°	3794.1	3794.1	3794.1	3794.1	3794.1	3794.1	3794.1	3794.1	3794.1	3794.1	3794.1
2.5°	3748.7	3692.8	3591.5	3487.2	3381.4	3299.8	3219.7	3156.2	3135.0	3095.7	3098.7
5°	3633.8	3531.0	3319.4	3104.8	2881.1	2696.7	2522.8	2382.2	2314.2	2244.7	2244.7
7.5°	3534.1	3384.4	3053.4	2704.2	2342.9	2039.1	1765.5	1559.9	1446.6	1355.9	1354.4
10°	3496.3	3293.7	2831.2	2330.9	1827.5	1413.3	1088.3	879.7	772.4	702.9	699.9
12.5°	3512.9	3262.0	2660.4	1986.2	1354.4	908.5	630.3	495.8	450.4	429.3	429.3
15°	3561.3	3252.9	2489.6	1649.1	956.8	568.4	418.7	382.4	379.4	379.4	379.4
17.5°	3620.2	3255.9	2314.2	1321.1	651.5	406.6	361.3	356.7	359.8	359.8	359.8
20°	3680.7	3257.4	2125.3	1017.3	459.5	353.7	340.1	338.6	341.6	341.6	343.1
22.5°	3754.8	3265.0	1936.3	760.3	379.4	334.1	323.5	323.5	325.0	325.0	323.5
25°	3839.4	3280.1	1739.8	563.8	346.2	320.5	311.4	309.9	311.4	309.9	308.4
27.5°	3945.2	3301.3	1520.6	441.4	331.0	306.8	299.3	299.3	297.8	296.3	294.8
30°	4078.2	3325.5	1274.3	374.9	315.9	294.8	287.2	285.7	284.2	281.2	281.2
32.5°	4280.8	3378.4	1030.9	340.1	299.3	278.1	272.1	272.1	269.1	266.0	264.5
35°	4592.2	3482.7	813.2	318.9	281.2	260.0	252.4	252.4	249.4	247.9	246.4
37.5°	5023.0	3641.4	631.8	299.3	263.0	240.3	232.8	231.3	228.2	225.2	223.7
40°	5595.9	3837.9	497.3	281.2	244.9	220.7	214.6	211.6	205.6	201.0	201.0
42.5°	6315.4	4061.6	403.6	261.5	223.7	202.6	198.0	193.5	182.9	178.4	176.9
45°	7068.1	4262.6	341.6	238.8	202.6	184.4	181.4	173.8	160.2	155.7	155.7
47.5°	7610.8	4309.5	300.8	217.7	182.9	164.8	163.3	149.6	137.6	134.5	133.0
50°	7949.4	4217.3	267.5	196.5	164.8	146.6	142.1	125.5	117.9	114.9	113.4
52.5°	8177.6	4052.5	240.3	178.4	148.1	130.0	119.4	107.3	101.3	98.3	98.3
55°	8360.5	3819.8	213.1	161.7	134.5	116.4	101.3	92.2	86.2	83.1	83.1
57.5°	8411.9	3503.8	185.9	148.1	120.9	102.8	86.2	80.1	72.6	71.0	71.0
60°	8038.6	2934.0	164.8	131.5	108.8	89.2	75.6	68.0	60.5	59.0	57.4
62.5°	7054.5	2270.4	145.1	116.4	95.2	77.1	65.0	55.9	49.9	49.9	49.9
65°	5381.2	1522.2	127.0	101.3	83.1	65.0	55.9	45.3	42.3	42.3	43.8
67.5°	3221.2	828.3	108.8	86.2	71.0	54.4	46.9	39.3	37.8	39.3	39.3
69°	1888.0	486.7	98.3	77.1	62.0	48.4	40.8	34.8	37.8	39.3	39.3
70°	1165.4	328.0	90.7	69.5	55.9	43.8	37.8	33.3	36.3	37.8	37.8
72.5°	325.0	169.3	72.6	54.4	45.3	36.3	30.2	30.2	34.8	36.3	36.3
75°	211.6	125.5	55.9	40.8	34.8	28.7	25.7	28.7	33.3	34.8	34.8
77.5°	175.3	102.8	45.3	33.3	28.7	27.2	24.2	25.7	30.2	31.7	31.7
80°	160.2	72.6	36.3	30.2	25.7	24.2	22.7	21.2	27.2	28.7	28.7
82.5°	152.7	57.4	31.7	27.2	24.2	21.2	19.7	21.2	24.2	25.7	27.2
85°	95.2	37.8	28.7	25.7	21.2	19.7	19.7	19.7	22.7	24.2	24.2
87.5°	34.8	30.2	25.7	21.2	18.1	18.1	18.1	18.1	19.7	22.7	22.7
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)