

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: P193682

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-SL3-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18362 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 258
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

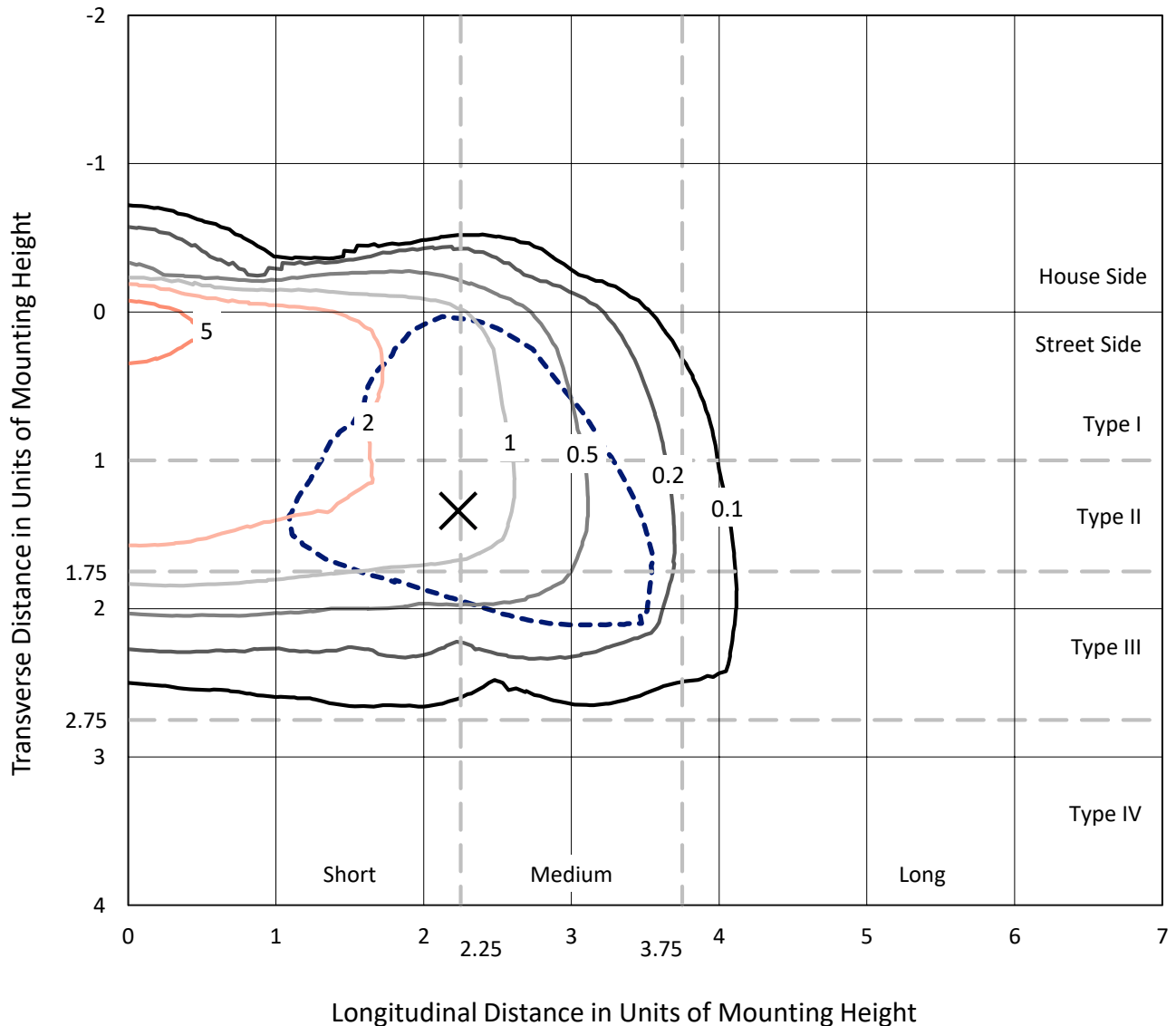


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

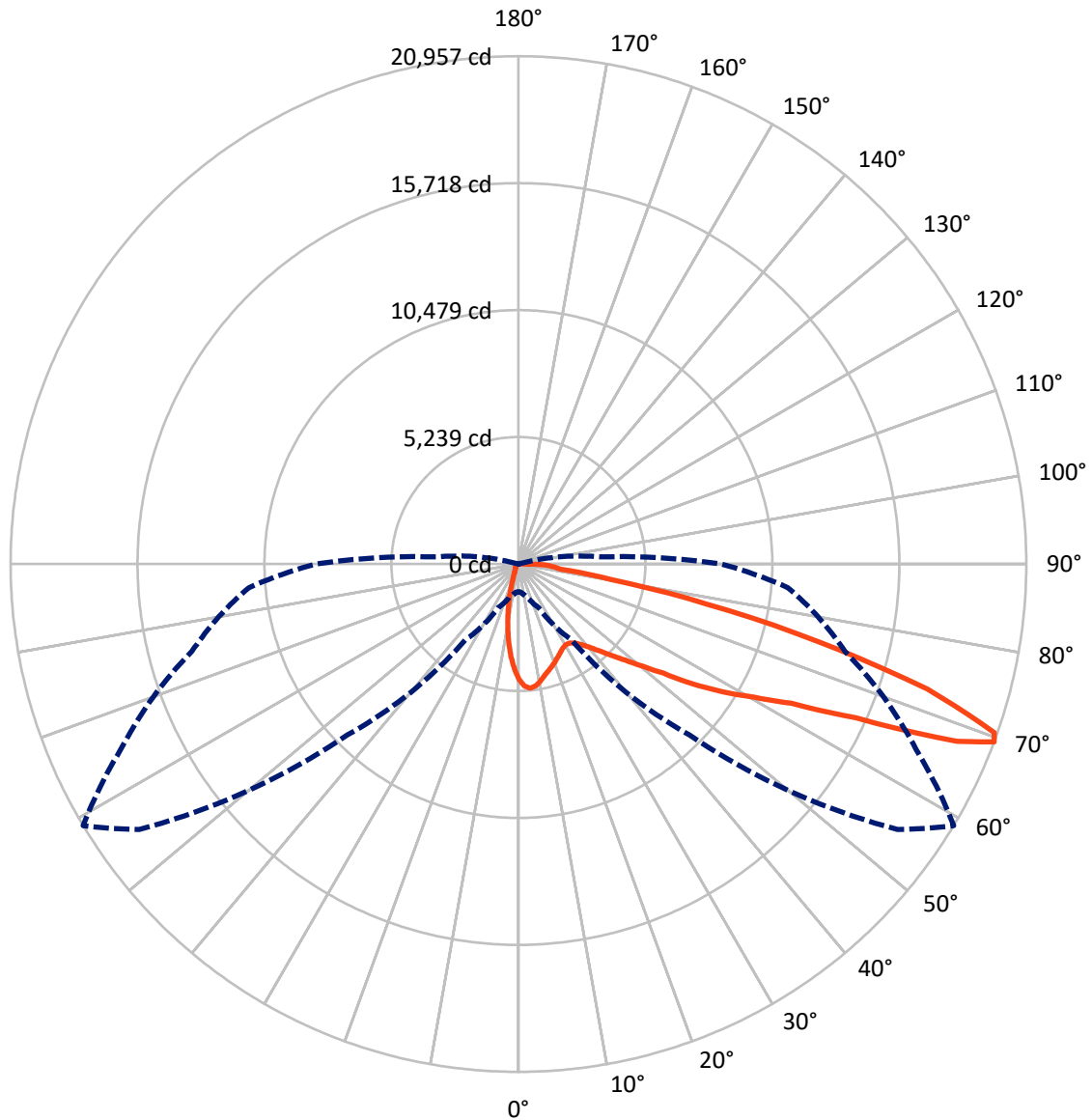


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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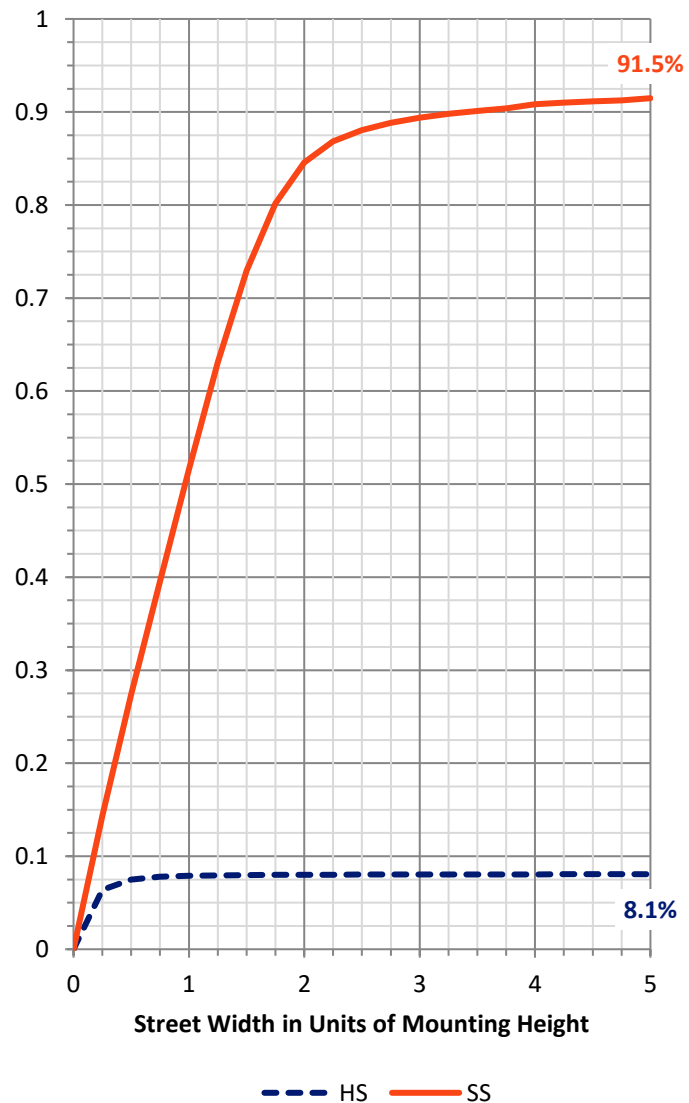
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1495.3	0.0	1495.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	16866.7	0.0	16866.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	18362.0	0.0	18362.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.9	2.1
10°-20°	801.6	4.4
20°-30°	1078.7	5.9
30°-40°	1566.1	8.5
40°-50°	2607.7	14.2
50°-60°	4068.0	22.2
60°-70°	5033.9	27.4
70°-80°	2551.1	13.9
80°-90°	266.9	1.5
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°	18362.0	100.0
0°-180°	18362.0	100.0



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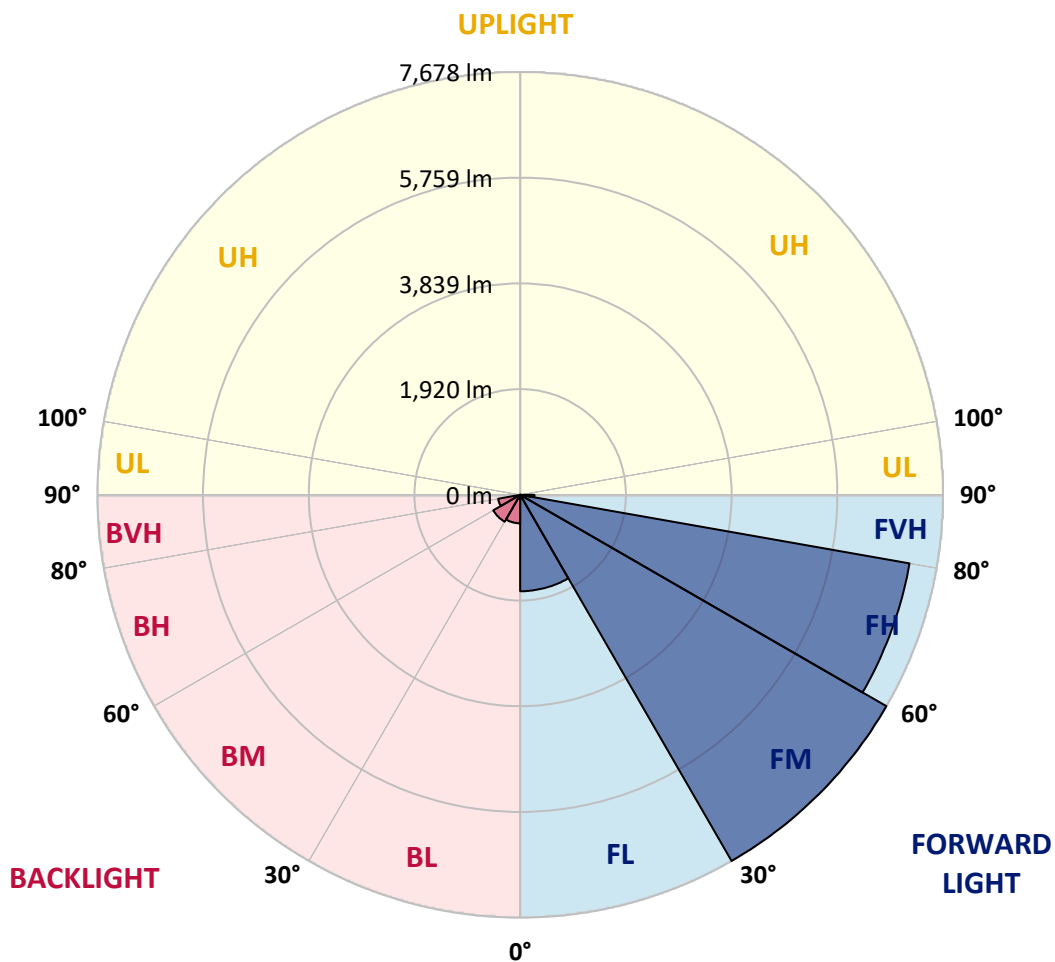
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1750.6	9.5			
FM	(30°-60°)	7678.5	41.8			
FH	(60°-80°)	7178.9	39.1			G3/7500
FVH	(80°-90°)	258.7	1.4			G3/500
BL	(0°-30°)	517.6	2.8	B2/1000		
BM	(30°-60°)	563.4	3.1	B1/1000		
BH	(60°-80°)	406.1	2.2	B1/500		G1/500
BVH	(80°-90°)	8.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4779.4	4779.4	4779.4	4779.4	4779.4	4779.4	4779.4	4779.4	4779.4	4779.4	4779.4
2.5°	5238.3	5236.2	5213.4	5203.0	5184.3	5144.9	5083.6	5051.4	4999.5	4909.2	4787.7
5°	5190.5	5215.5	5229.0	5230.0	5243.5	5229.0	5173.9	5146.9	5075.3	4929.9	4711.9
7.5°	4866.6	4875.9	4914.4	4947.6	5012.0	5073.2	5092.9	5081.5	5039.0	4883.2	4593.5
10°	4519.8	4529.1	4574.8	4618.4	4705.7	4800.1	4899.8	4920.6	4938.2	4816.8	4479.3
12.5°	4220.8	4230.1	4276.8	4333.9	4435.7	4552.0	4706.7	4741.0	4818.8	4753.4	4387.9
15°	3963.3	3967.4	4013.1	4083.7	4205.2	4354.7	4530.2	4585.2	4704.6	4708.8	4308.0
17.5°	3744.2	3754.6	3782.6	3850.1	3983.0	4167.8	4372.4	4451.3	4591.4	4671.4	4230.1
20°	3610.2	3620.6	3619.6	3657.0	3776.4	3973.6	4214.5	4309.0	4479.3	4633.0	4160.5
22.5°	3584.3	3584.3	3557.3	3552.1	3622.7	3787.8	4050.5	4165.7	4378.6	4616.4	4111.7
25°	3676.7	3672.5	3605.0	3550.0	3553.1	3651.8	3891.6	4028.7	4293.4	4627.8	4085.8
27.5°	3871.9	3866.7	3781.6	3676.7	3592.6	3591.5	3771.2	3918.6	4226.0	4681.8	4096.2
30°	4141.8	4139.8	4047.4	3915.5	3762.9	3622.7	3729.6	3863.6	4182.3	4779.4	4120.0
32.5°	4436.7	4433.6	4364.0	4224.9	4031.8	3762.9	3773.2	3885.4	4194.8	4909.2	4178.2
35°	4749.3	4744.1	4714.0	4592.5	4379.6	4021.4	3916.5	4003.8	4273.7	5103.3	4292.4
37.5°	5087.8	5092.9	5114.8	4998.5	4775.2	4383.8	4156.4	4215.6	4432.6	5367.1	4478.3
40°	5587.2	5586.1	5593.4	5440.8	5225.9	4827.1	4491.8	4510.5	4698.4	5717.0	4760.7
42.5°	6493.6	6430.3	6238.2	5926.7	5710.7	5333.8	4914.4	4894.6	5023.4	6150.0	5156.3
45°	7711.6	7576.6	7078.2	6481.2	6205.0	5904.9	5434.6	5371.2	5453.2	6670.2	5644.3
47.5°	8759.2	8619.1	7914.1	7058.5	6729.3	6446.9	6044.0	5929.8	5956.8	7252.6	6263.1
50°	9115.4	9046.9	8431.1	7561.0	7237.1	7129.1	6751.1	6612.0	6573.6	7926.5	6980.6
52.5°	8991.8	8986.6	8576.5	7887.1	7702.2	7835.1	7641.0	7480.0	7338.8	8636.7	7710.5
55°	8793.5	8819.5	8635.7	8172.6	8166.4	8479.9	8857.9	8723.9	8314.8	9408.2	8339.8
57.5°	8246.3	8357.4	8602.5	8712.5	8967.9	9288.8	9871.3	9950.2	9466.3	9999.0	8862.0
60°	6690.9	6934.9	7736.5	8790.4	10001.1	10800.6	11094.4	11161.9	10411.2	10490.1	9567.1
62.5°	4749.3	4998.5	6015.0	7797.8	10016.6	12786.9	12916.7	12651.9	11451.6	11218.0	10782.9
65°	2521.0	2713.1	3543.8	5628.7	8684.5	13247.9	16103.3	15314.1	13287.3	12649.8	12353.9
67.5°	1289.6	1347.7	1677.9	2754.7	5970.3	11767.3	18959.7	19515.2	16451.1	14070.2	12278.1
69°	1141.1	1175.4	1394.5	1991.5	3823.1	9966.8	19098.8	20957.4	18107.2	13951.9	11157.8
70°	1104.8	1134.9	1334.2	1802.5	2988.3	8358.5	18566.2	20830.7	18530.8	13501.2	10320.9
72.5°	937.6	963.6	1187.8	1592.8	2428.6	4149.1	15081.6	17651.4	16628.7	11247.1	7470.7
75°	627.1	712.3	1140.1	1493.1	2259.4	2357.0	9942.9	12755.7	11849.3	7585.9	3891.6
77.5°	150.6	162.0	321.9	1187.8	2066.3	2074.6	5113.7	7929.6	6467.7	2703.8	919.9
80°	81.0	77.9	90.3	235.7	1924.0	1946.8	2301.9	3849.0	2309.2	448.6	303.2
82.5°	57.1	54.0	58.1	98.6	605.3	1773.4	1665.5	1742.3	957.3	172.4	136.0
85°	20.8	19.7	32.2	89.3	190.0	1019.6	1711.1	1437.0	775.6	78.9	99.7
87.5°	7.3	6.2	12.5	48.8	58.1	434.0	1056.0	1086.1	305.3	47.8	46.7
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°	4779.4	4779.4	4779.4	4779.4	4779.4	4779.4	4779.4	4779.4	4779.4	4779.4	4779.4
2.5°	4736.8	4672.4	4554.1	4432.6	4320.4	4185.5	4118.0	4051.5	4023.5	4013.1	3964.3
5°	4599.7	4490.7	4239.4	3987.1	3754.6	3507.4	3344.4	3213.6	3136.8	3099.4	3040.2
7.5°	4424.3	4245.7	3864.6	3475.2	3112.9	2755.7	2490.9	2287.4	2147.2	2079.7	2018.5
10°	4254.0	4016.2	3474.2	2943.6	2451.5	1978.0	1612.5	1347.7	1178.5	1100.6	1050.8
12.5°	4101.4	3793.0	3097.3	2425.5	1807.7	1253.2	881.5	670.8	565.9	529.5	511.9
15°	3965.3	3587.4	2741.2	1933.3	1224.2	716.4	481.8	410.1	393.5	393.5	391.4
17.5°	3836.6	3386.0	2397.5	1471.3	768.4	438.2	366.5	357.2	357.2	361.3	361.3
20°	3713.0	3193.9	2065.2	1056.0	483.9	347.8	331.2	329.1	331.2	336.4	336.4
22.5°	3607.1	3019.4	1754.8	724.7	359.3	313.6	305.3	302.2	303.2	306.3	308.4
25°	3528.2	2872.0	1462.0	491.1	309.4	285.5	276.2	271.0	266.8	266.8	268.9
27.5°	3478.4	2747.4	1178.5	357.2	278.3	259.6	245.0	236.7	227.4	222.2	224.3
30°	3442.0	2629.0	912.7	291.8	249.2	230.5	211.8	198.3	184.8	178.6	180.7
32.5°	3428.5	2533.5	682.2	257.5	223.2	202.5	179.6	162.0	147.4	142.2	143.3
35°	3464.9	2457.7	499.4	232.6	202.5	176.5	150.6	130.8	119.4	116.3	117.3
37.5°	3560.4	2417.2	373.8	211.8	183.8	154.7	125.6	106.9	99.7	99.7	100.7
40°	3741.1	2416.2	300.1	197.3	167.2	133.9	103.8	90.3	86.2	88.3	89.3
42.5°	4004.8	2471.2	261.7	183.8	152.6	114.2	86.2	76.8	75.8	77.9	78.9
45°	4365.1	2571.9	240.9	172.4	137.1	95.5	72.7	66.5	66.5	69.6	70.6
47.5°	4806.4	2719.4	223.2	160.9	121.5	80.0	62.3	58.1	59.2	62.3	63.3
50°	5338.0	2905.2	205.6	148.5	110.1	66.5	54.0	50.9	51.9	56.1	57.1
52.5°	5943.3	3155.4	191.1	137.1	95.5	55.0	45.7	43.6	45.7	49.8	50.9
55°	6462.5	3379.7	173.4	127.7	76.8	45.7	37.4	37.4	39.5	44.6	45.7
57.5°	6961.9	3614.4	157.8	110.1	60.2	36.3	31.1	32.2	35.3	40.5	41.5
60°	7695.0	4012.1	139.1	92.4	45.7	29.1	26.0	27.0	31.1	36.3	37.4
62.5°	8939.9	4617.4	120.4	76.8	35.3	22.8	20.8	22.8	28.0	34.3	35.3
65°	10063.4	4863.5	98.6	64.4	27.0	17.7	17.7	20.8	27.0	33.2	34.3
67.5°	9437.3	4094.1	76.8	50.9	20.8	13.5	14.5	19.7	26.0	33.2	34.3
69°	8346.0	3347.5	65.4	40.5	17.7	12.5	13.5	19.7	26.0	32.2	33.2
70°	7495.6	2826.3	58.1	34.3	15.6	12.5	13.5	18.7	26.0	32.2	33.2
72.5°	5020.3	1526.3	46.7	24.9	14.5	11.4	11.4	18.7	24.9	31.1	32.2
75°	2157.6	421.6	37.4	17.7	12.5	10.4	10.4	17.7	23.9	30.1	32.2
77.5°	394.6	106.9	30.1	15.6	12.5	10.4	9.3	16.6	22.8	29.1	30.1
80°	156.8	53.0	23.9	13.5	11.4	9.3	8.3	15.6	21.8	28.0	29.1
82.5°	94.5	30.1	19.7	12.5	11.4	8.3	7.3	13.5	20.8	27.0	28.0
85°	76.8	20.8	15.6	12.5	10.4	8.3	6.2	12.5	18.7	26.0	27.0
87.5°	37.4	14.5	14.5	11.4	10.4	8.3	6.2	11.4	17.7	24.9	26.0
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)