

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: P191204

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191204
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: GLEON-AF-06-LED-E1-SL4-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23880.8 lumens
Efficiency: N/A
Efficacy: 95.9 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

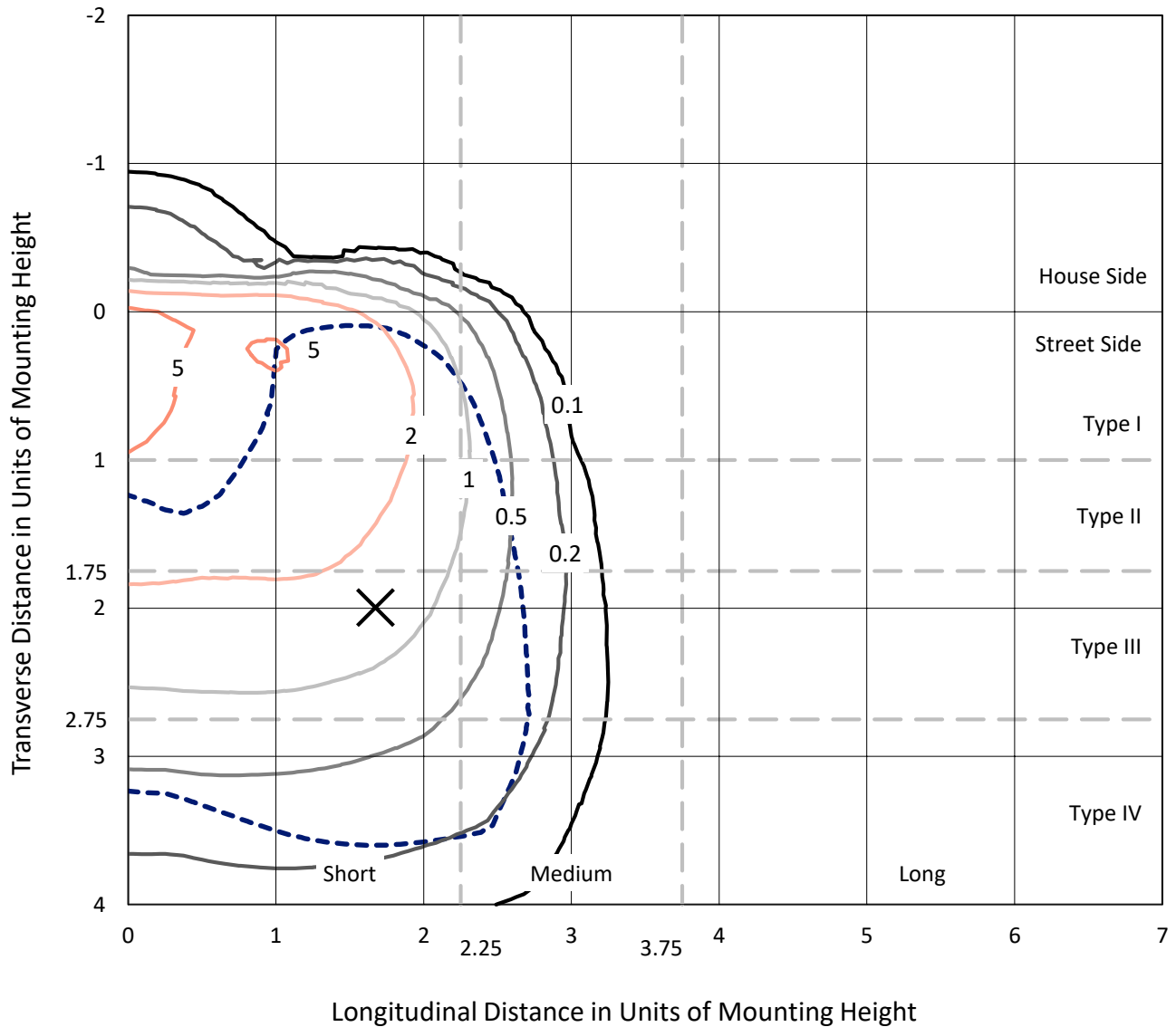
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

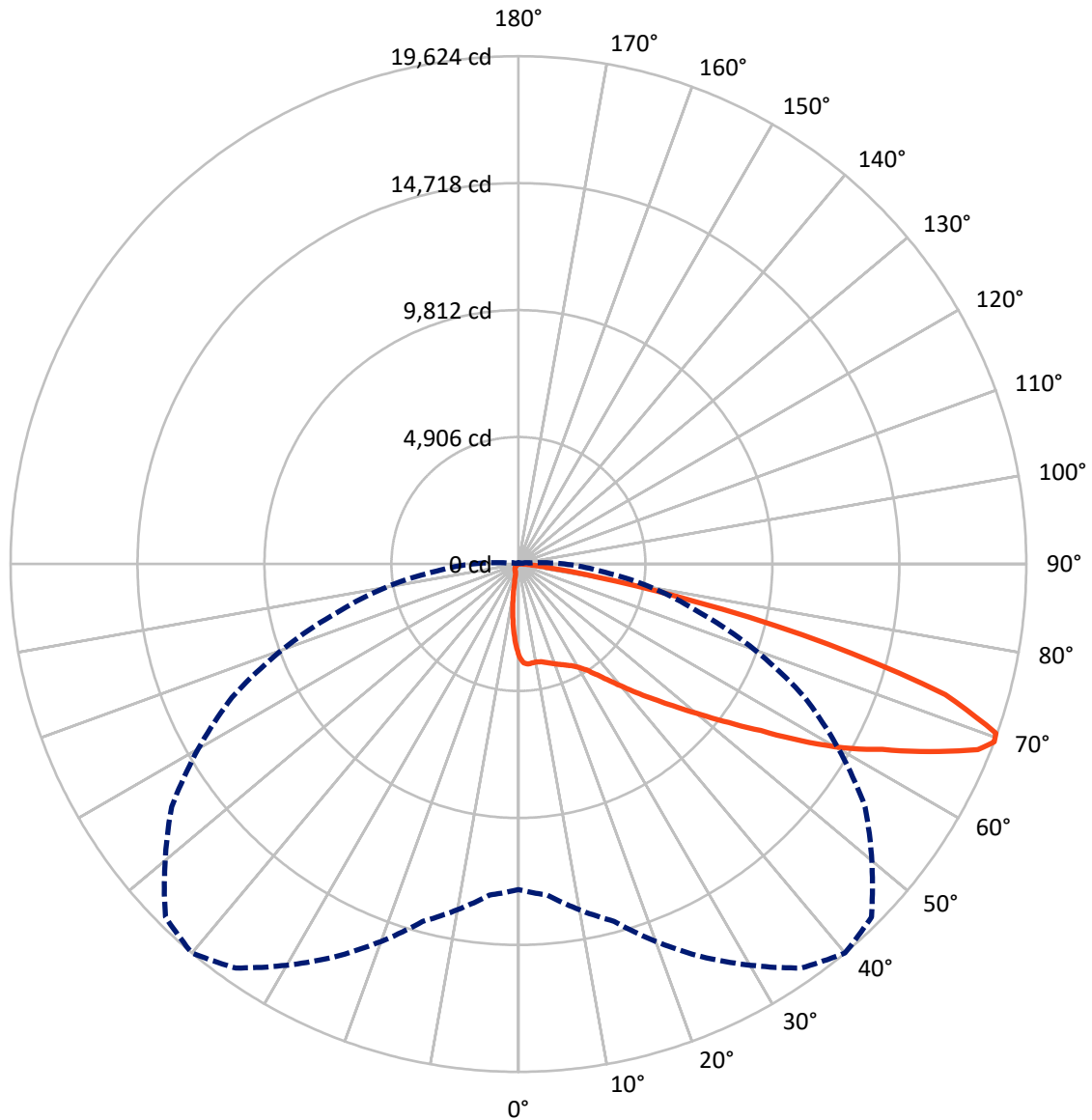
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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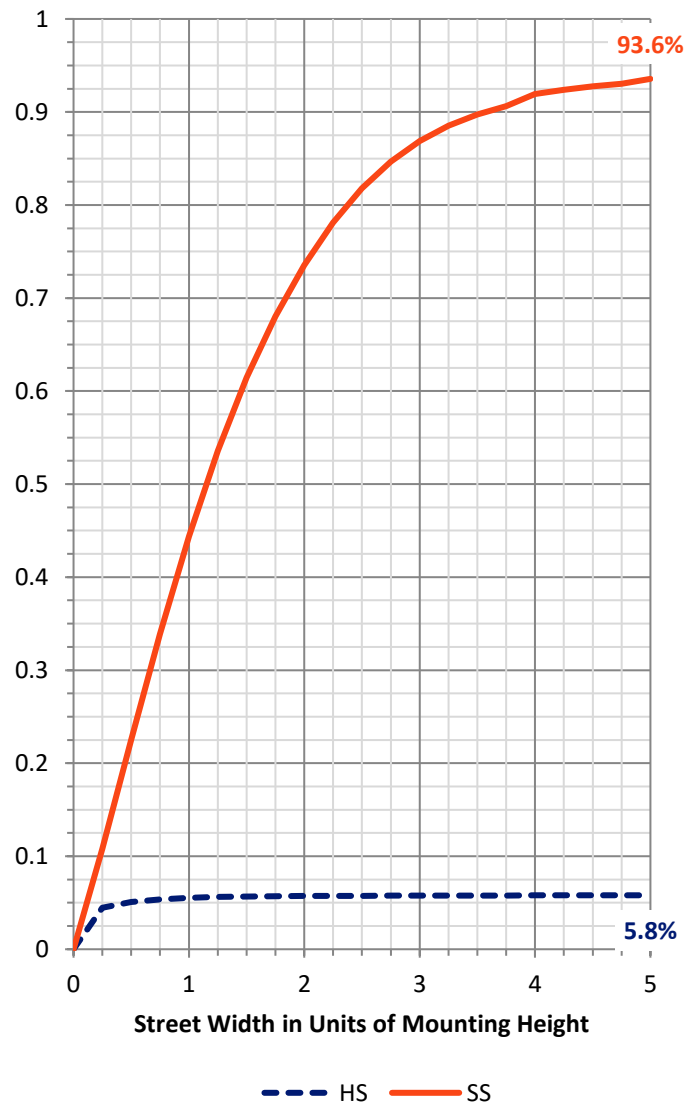
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1397.2	0.0	1397.2
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	22483.6	0.0	22483.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	23880.8	0.0	23880.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.3	1.2
10°-20°	711.4	3.0
20°-30°	1198.3	5.0
30°-40°	1961.6	8.2
40°-50°	3396.4	14.2
50°-60°	5349.7	22.4
60°-70°	6986.5	29.3
70°-80°	3598.4	15.1
80°-90°	389.2	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°	23880.8	100.0
0°-180°	23880.8	100.0

Coefficient of Utilization



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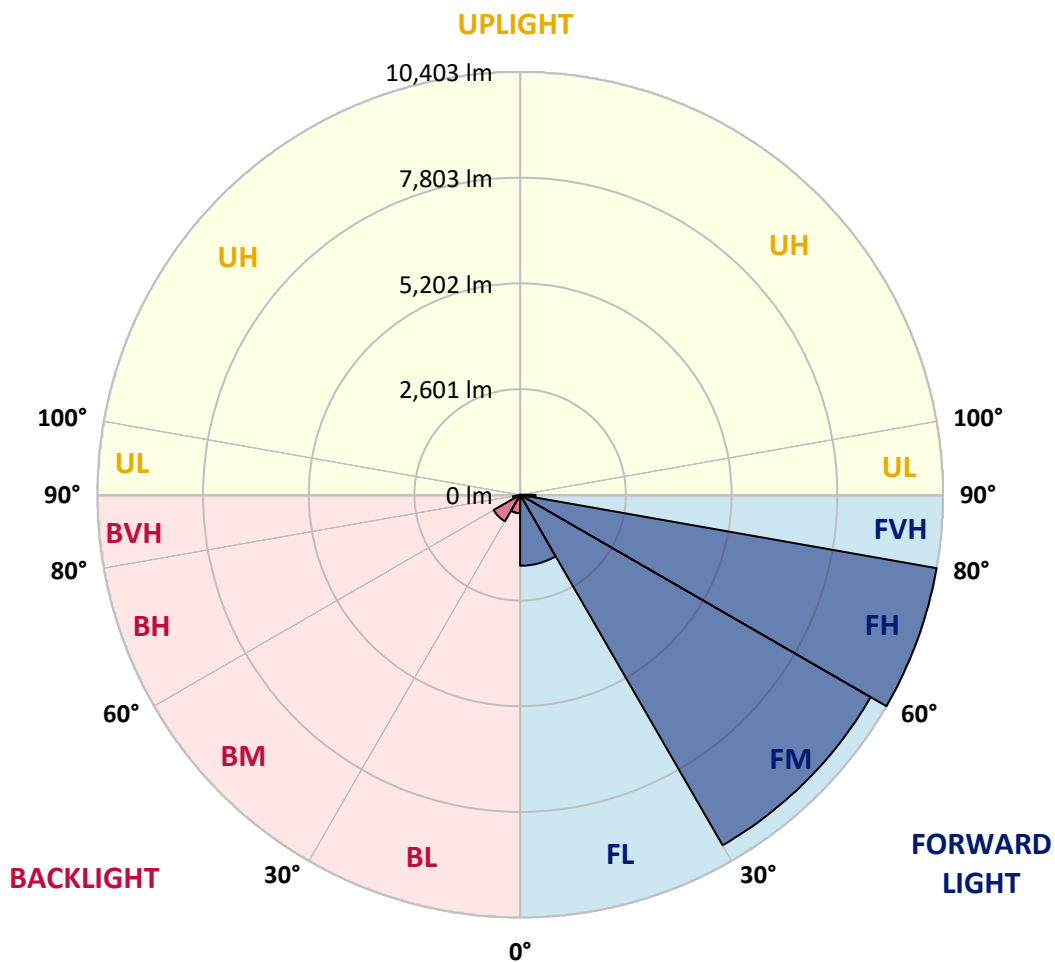
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1746.4	7.3			
FM	(30°-60°)	9956.8	41.7			
FH	(60°-80°)	10403.4	43.6			G4/12000
FVH	(80°-90°)	377.0	1.6			G3/500
BL	(0°-30°)	452.6	1.9	B1/500		
BM	(30°-60°)	750.9	3.1	B1/1000		
BH	(60°-80°)	181.4	0.8	B1/500		G1/500
BVH	(80°-90°)	12.2	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°	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0
2.5°	3917.6	3896.3	3883.5	3866.4	3845.1	3826.7	3819.5	3766.9	3717.2	3649.0	3570.7
5°	3990.1	3983.0	3960.3	3937.5	3911.9	3883.5	3867.9	3805.3	3734.2	3634.7	3498.3
7.5°	3997.2	3988.7	3960.3	3928.9	3893.5	3859.3	3832.3	3769.8	3704.4	3603.4	3437.1
10°	3985.8	3975.9	3954.5	3920.5	3876.4	3843.6	3816.6	3757.0	3701.5	3610.6	3425.8
12.5°	3973.0	3963.1	3953.1	3936.1	3897.6	3874.9	3852.2	3795.4	3745.6	3668.8	3467.0
15°	3985.8	3980.1	3991.6	3984.4	3963.1	3943.2	3920.5	3869.3	3823.8	3759.9	3542.4
17.5°	4039.8	4039.8	4075.3	4079.6	4059.8	4031.3	3998.6	3947.5	3909.1	3855.1	3631.9
20°	4166.4	4162.1	4207.6	4216.1	4167.8	4123.7	4075.3	4012.8	3983.0	3948.9	3720.0
22.5°	4383.9	4363.9	4390.9	4382.4	4287.2	4219.0	4159.2	4082.5	4066.8	4051.2	3818.1
25°	4666.7	4655.3	4673.9	4590.0	4422.2	4329.8	4258.7	4172.0	4172.0	4187.7	3928.9
27.5°	5077.5	5034.9	4972.4	4824.5	4572.9	4455.0	4378.1	4285.8	4309.9	4368.2	4075.3
30°	5498.3	5451.4	5307.8	5080.4	4756.3	4632.6	4543.0	4446.4	4503.2	4609.8	4271.5
32.5°	5913.4	5860.8	5657.5	5370.4	5019.2	4895.5	4808.9	4702.3	4797.5	4976.6	4558.7
35°	6315.6	6268.7	6034.2	5695.9	5369.0	5266.6	5187.0	5094.6	5216.8	5467.1	4963.8
37.5°	6767.6	6716.5	6430.8	6064.1	5794.0	5720.0	5661.7	5569.4	5782.5	6149.4	5528.1
40°	7323.5	7236.8	6851.5	6486.2	6285.8	6250.2	6210.4	6197.6	6528.9	7036.4	6280.1
42.5°	7960.3	7818.1	7292.2	6931.1	6825.9	6851.5	6841.6	6898.5	7462.7	8139.4	7195.5
45°	8597.1	8413.8	7782.6	7405.9	7420.1	7509.7	7565.1	7792.5	8632.7	9404.5	8180.6
47.5°	9137.3	8956.8	8253.1	7919.1	8089.6	8265.9	8416.5	8847.3	9835.3	10649.7	8946.8
50°	9599.3	9428.6	8752.1	8483.4	8867.1	9151.5	9396.0	10034.2	11128.8	11597.8	9484.1
52.5°	9977.4	9863.6	9269.5	9130.1	9755.6	10172.1	10530.4	11295.1	12274.5	12368.3	9902.1
55°	10345.5	10264.5	9825.2	9899.2	10799.0	11366.1	11819.6	12632.7	13261.0	13010.8	10302.9
57.5°	10769.1	10695.3	10459.3	10874.3	12170.7	12884.3	13379.0	13818.2	14129.5	13667.5	10681.0
60°	11201.2	11158.7	11164.3	11957.5	13745.7	14430.9	14703.8	14817.5	14982.3	14285.8	10702.3
62.5°	11613.5	11694.5	11970.3	13162.9	15253.9	15779.8	15917.7	16030.0	15836.7	14383.9	9887.8
65°	12311.4	12443.6	13101.7	14776.3	16912.8	17475.7	17617.8	17232.6	15971.7	13116.0	8042.7
67.5°	12652.6	12894.2	14068.3	16280.2	18521.9	19147.3	19094.7	17310.8	14332.8	10001.5	5161.4
69°	12581.5	12838.7	14291.5	16740.8	19056.3	19623.5	19289.5	16354.1	12210.6	7245.3	3168.5
70°	12300.1	12560.2	14176.4	16723.7	19124.6	19573.8	18928.4	15172.9	10324.2	5297.9	1981.6
72.5°	10271.7	10496.2	12585.8	15116.0	17617.8	17252.5	15835.3	10511.8	5030.6	1442.8	446.3
75°	6322.8	6447.9	9030.6	11387.5	13306.4	12368.3	10550.2	5229.6	1499.6	408.0	247.3
77.5°	3340.4	3397.3	4943.9	6712.2	8435.0	6979.5	5407.3	2039.9	690.8	255.8	179.1
80°	1974.4	2017.1	2662.4	3069.0	3650.4	3049.1	2162.1	1252.3	494.7	160.6	159.2
82.5°	1130.1	1157.1	1930.4	1705.8	1438.6	1228.2	1076.0	1186.9	297.1	108.0	164.9
85°	415.1	420.7	1086.0	1297.8	855.7	508.9	534.5	983.7	79.6	68.2	129.4
87.5°	193.3	189.0	558.6	794.6	500.3	322.6	416.4	216.0	31.3	44.1	35.5
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°	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0
2.5°	3525.3	3472.7	3377.5	3279.4	3179.8	3103.1	3027.7	2968.1	2948.1	2911.2	2914.1
5°	3417.3	3320.6	3121.5	2919.7	2709.4	2535.9	2372.4	2240.3	2176.3	2110.9	2110.9
7.5°	3323.5	3182.7	2871.4	2543.1	2203.3	1917.6	1660.2	1467.0	1360.3	1275.1	1273.7
10°	3287.9	3097.4	2662.4	2191.9	1718.6	1329.1	1023.5	827.3	726.4	661.0	658.2
12.5°	3303.5	3067.5	2501.8	1867.8	1273.7	854.3	592.8	466.3	423.6	403.7	403.7
15°	3349.0	3059.0	2341.1	1550.8	899.8	534.5	393.7	359.7	356.8	356.8	356.8
17.5°	3404.5	3061.9	2176.3	1242.4	612.6	382.4	339.7	335.4	338.3	338.3	338.3
20°	3461.3	3063.3	1998.6	956.7	432.1	332.7	319.9	318.4	321.2	321.2	322.6
22.5°	3530.9	3070.4	1821.0	715.0	356.8	314.1	304.2	304.2	305.7	305.7	304.2
25°	3610.6	3084.6	1636.1	530.2	325.5	301.4	292.9	291.4	292.9	291.4	290.0
27.5°	3710.0	3104.6	1430.0	415.1	311.3	288.6	281.4	281.4	280.0	278.7	277.2
30°	3835.1	3127.3	1198.3	352.5	297.1	277.2	270.1	268.6	267.2	264.4	264.4
32.5°	4025.6	3177.0	969.5	319.9	281.4	261.6	255.8	255.8	253.0	250.2	248.8
35°	4318.5	3275.1	764.8	299.9	264.4	244.5	237.4	237.4	234.6	233.1	231.7
37.5°	4723.6	3424.3	594.1	281.4	247.3	226.0	218.9	217.5	214.6	211.8	210.4
40°	5262.4	3609.2	467.7	264.4	230.3	207.6	201.8	199.0	193.3	189.0	189.0
42.5°	5938.9	3819.5	379.5	245.9	210.4	190.5	186.2	182.0	172.0	167.8	166.3
45°	6646.8	4008.5	321.2	224.6	190.5	173.4	170.6	163.5	150.7	146.4	146.4
47.5°	7157.2	4052.6	282.8	204.7	172.0	155.0	153.5	140.8	129.4	126.5	125.1
50°	7475.5	3965.9	251.6	184.7	155.0	137.9	133.6	117.9	110.9	108.0	106.6
52.5°	7690.2	3811.0	226.0	167.8	139.3	122.2	112.3	101.0	95.2	92.4	92.4
55°	7862.2	3592.1	200.4	152.1	126.5	109.5	95.2	86.7	81.0	78.2	78.2
57.5°	7910.6	3295.0	174.8	139.3	113.8	96.7	81.0	75.3	68.2	66.8	66.8
60°	7559.4	2759.1	155.0	123.7	102.4	83.9	71.1	63.9	56.9	55.4	54.0
62.5°	6634.0	2135.1	136.5	109.5	89.5	72.5	61.2	52.6	47.0	47.0	47.0
65°	5060.4	1431.4	119.4	95.2	78.2	61.2	52.6	42.7	39.8	39.8	41.2
67.5°	3029.2	779.0	102.4	81.0	66.8	51.1	44.1	36.9	35.5	36.9	36.9
69°	1775.4	457.7	92.4	72.5	58.3	45.5	38.4	32.7	35.5	36.9	36.9
70°	1096.0	308.4	85.3	65.4	52.6	41.2	35.5	31.3	34.2	35.5	35.5
72.5°	305.7	159.2	68.2	51.1	42.7	34.2	28.4	28.4	32.7	34.2	34.2
75°	199.0	117.9	52.6	38.4	32.7	27.0	24.1	27.0	31.3	32.7	32.7
77.5°	164.9	96.7	42.7	31.3	27.0	25.6	22.7	24.1	28.4	29.9	29.9
80°	150.7	68.2	34.2	28.4	24.1	22.7	21.3	19.9	25.6	27.0	27.0
82.5°	143.5	54.0	29.9	25.6	22.7	19.9	18.5	19.9	22.7	24.1	25.6
85°	89.5	35.5	27.0	24.1	19.9	18.5	18.5	18.5	21.3	22.7	22.7
87.5°	32.7	28.4	24.1	19.9	17.1	17.1	17.1	17.1	18.5	21.3	21.3
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)