

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: P191205

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191205
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-07-LED-E1-SL4-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 28241.6 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

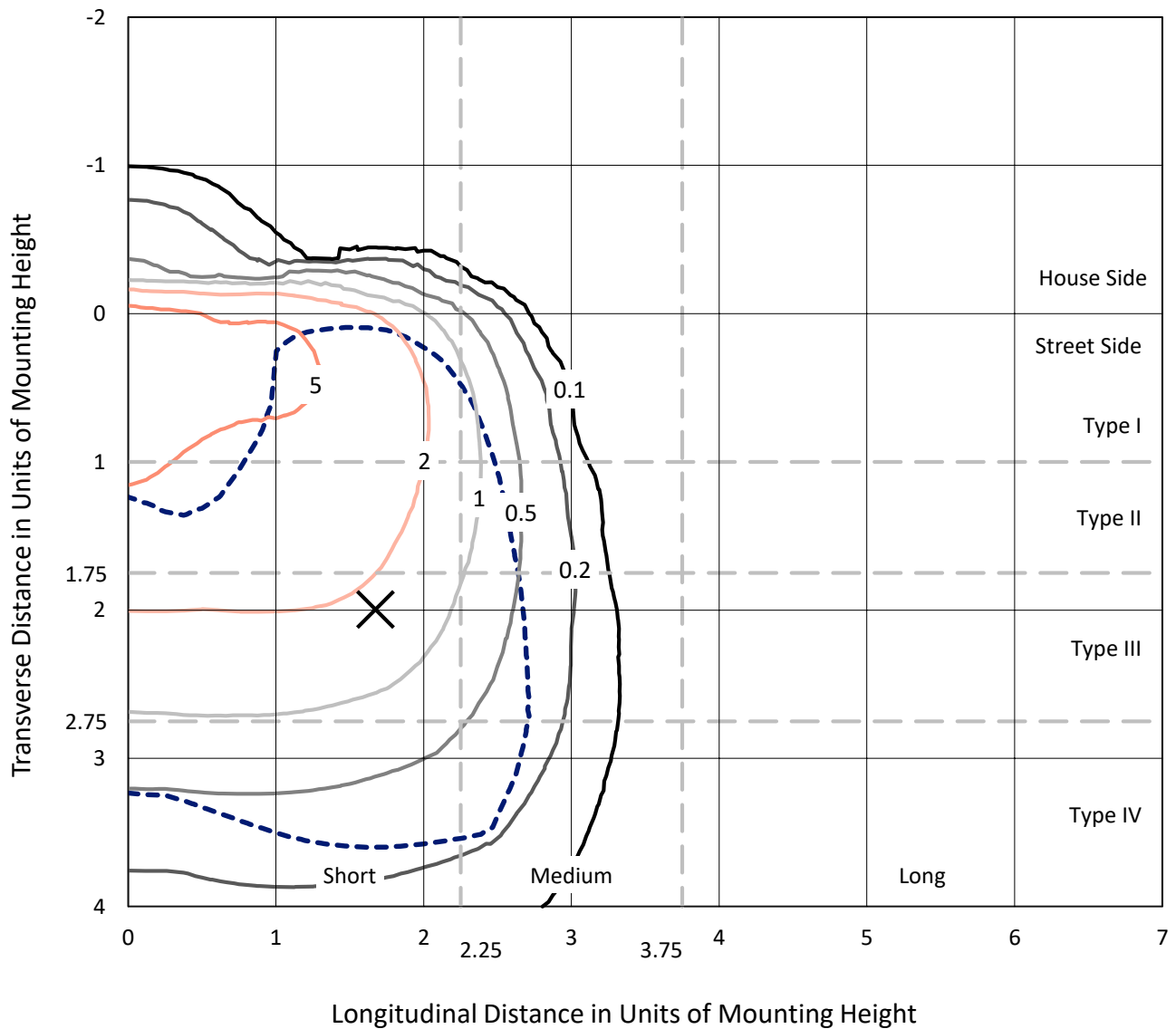
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

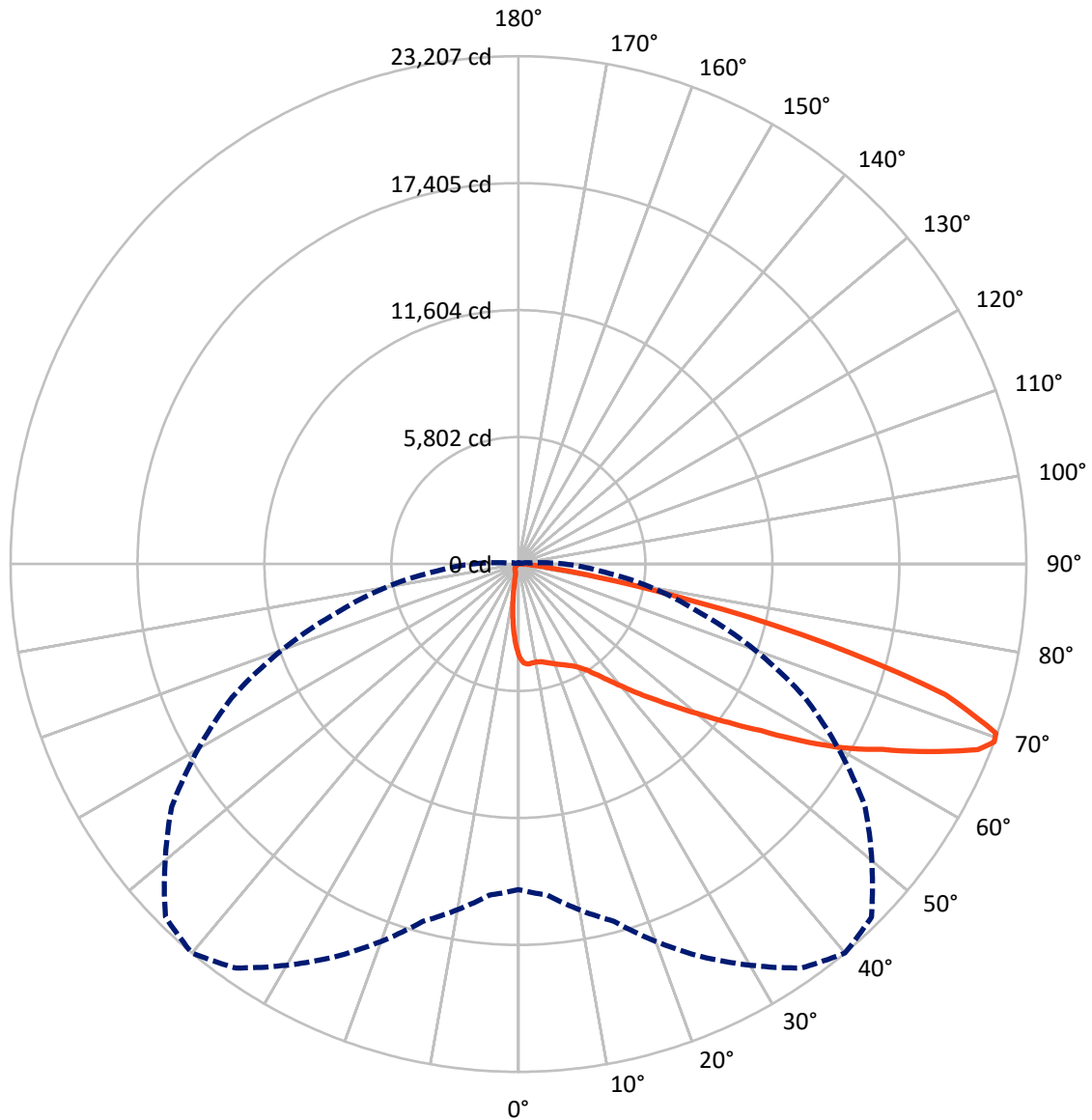
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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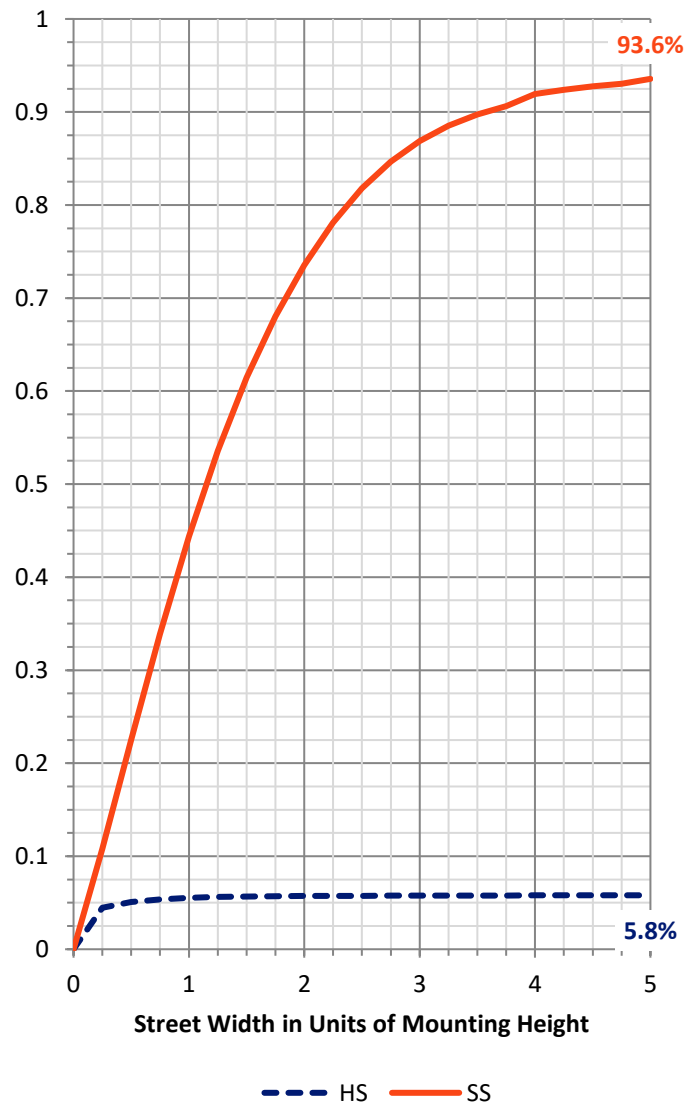
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1652.3	0.0	1652.3
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	26589.3	0.0	26589.3
	% Fixture	94.1	0.0	94.1
Total	Lumens	28241.6	0.0	28241.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.1	1.2
10°-20°	841.3	3.0
20°-30°	1417.1	5.0
30°-40°	2319.8	8.2
40°-50°	4016.6	14.2
50°-60°	6326.6	22.4
60°-70°	8262.3	29.3
70°-80°	4255.5	15.1
80°-90°	460.3	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°	28241.6	100.0
0°-180°	28241.6	100.0

Coefficient of Utilization



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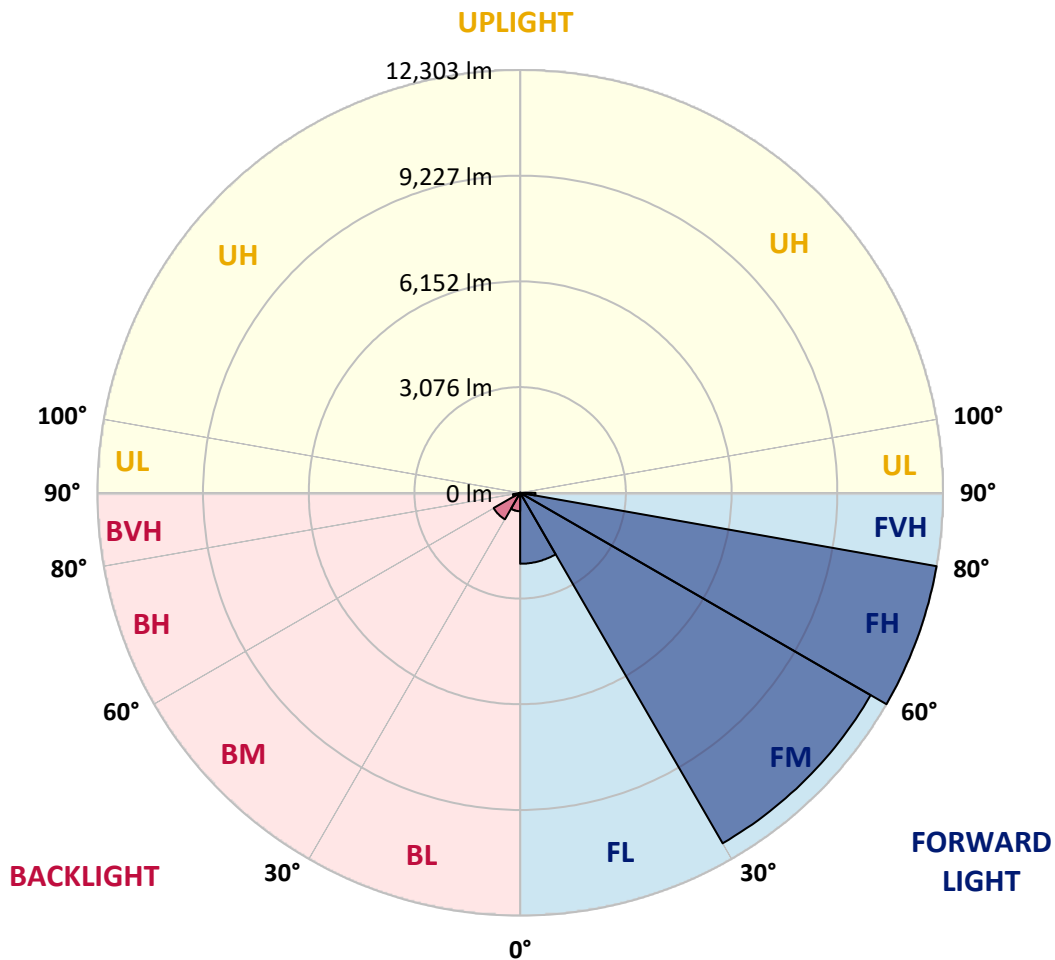
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2065.3	7.3			
FM	(30°-60°)	11775.0	41.7			
FH	(60°-80°)	12303.2	43.6			G5
FVH	(80°-90°)	445.9	1.6			G3/500
BL	(0°-30°)	535.2	1.9	B2/1000		
BM	(30°-60°)	888.1	3.1	B1/1000		
BH	(60°-80°)	214.5	0.8	B1/500		G1/500
BVH	(80°-90°)	14.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4219.5	4219.5	4219.5	4219.5	4219.5	4219.5	4219.5	4219.5	4219.5	4219.5	4219.5
2.5°	4632.9	4607.8	4592.6	4572.5	4547.2	4525.4	4516.9	4454.7	4395.9	4315.2	4222.8
5°	4718.7	4710.3	4683.4	4656.5	4626.3	4592.6	4574.1	4500.2	4416.1	4298.4	4137.1
7.5°	4727.2	4717.0	4683.4	4646.4	4604.4	4564.1	4532.1	4458.1	4380.8	4261.5	4064.8
10°	4713.7	4701.9	4676.7	4636.3	4584.3	4545.6	4513.7	4443.0	4377.5	4269.9	4051.3
12.5°	4698.5	4686.8	4675.0	4654.8	4609.4	4582.5	4555.6	4488.4	4429.6	4338.8	4100.1
15°	4713.7	4706.9	4720.4	4712.0	4686.8	4663.2	4636.3	4575.9	4522.1	4446.4	4189.2
17.5°	4777.6	4777.6	4819.5	4824.6	4801.1	4767.5	4728.8	4668.2	4622.9	4559.0	4295.1
20°	4927.1	4922.1	4975.9	4986.0	4928.9	4876.7	4819.5	4745.6	4710.3	4670.0	4399.3
22.5°	5184.4	5160.8	5192.8	5182.7	5070.1	4989.3	4918.8	4828.0	4809.5	4791.0	4515.3
25°	5518.9	5505.4	5527.3	5428.1	5229.7	5120.5	5036.4	4933.9	4933.9	4952.4	4646.4
27.5°	6004.7	5954.3	5880.3	5705.5	5407.9	5268.4	5177.7	5068.4	5097.0	5165.9	4819.5
30°	6502.3	6446.8	6277.0	6008.1	5624.8	5478.5	5372.6	5258.4	5325.6	5451.6	5051.5
32.5°	6993.2	6931.0	6690.6	6351.0	5935.8	5789.6	5687.0	5561.0	5673.6	5885.3	5391.2
35°	7468.9	7413.4	7136.1	6736.0	6349.4	6228.3	6134.1	6024.9	6169.4	6465.4	5870.2
37.5°	8003.5	7943.0	7605.1	7171.4	6851.9	6764.6	6695.6	6586.4	6838.5	7272.3	6537.6
40°	8660.8	8558.2	8102.7	7670.6	7433.6	7391.6	7344.5	7329.4	7721.0	8321.2	7426.9
42.5°	9413.9	9245.8	8623.8	8196.8	8072.4	8102.7	8090.9	8158.1	8825.5	9625.8	8509.5
45°	10167.0	9950.1	9203.8	8758.3	8775.1	8881.1	8946.5	9215.6	10209.0	11121.8	9674.5
47.5°	10805.8	10592.3	9760.2	9365.1	9566.8	9775.3	9953.5	10462.8	11631.3	12594.5	10580.6
50°	11352.2	11150.5	10350.2	10032.5	10486.4	10822.6	11111.8	11866.5	13161.0	13715.7	11215.9
52.5°	11799.3	11664.8	10962.1	10797.5	11537.0	12029.6	12453.2	13357.7	14515.9	14626.9	11710.2
55°	12234.7	12138.8	11619.4	11706.9	12770.9	13441.7	13978.0	14939.5	15682.6	15386.7	12184.3
57.5°	12735.6	12648.3	12369.2	12860.0	14393.2	15237.1	15822.1	16341.5	16709.7	16163.3	12631.4
60°	13246.7	13196.3	13203.0	14141.1	16255.8	17066.1	17388.8	17523.4	17718.3	16894.5	12656.7
62.5°	13734.2	13830.0	14156.1	15566.5	18039.4	18661.4	18824.4	18957.2	18728.6	17010.5	11693.5
65°	14559.6	14716.0	15494.2	17474.6	20001.1	20666.9	20835.0	20379.4	18888.3	15511.1	9511.4
67.5°	14963.0	15248.8	16637.4	19253.1	21904.1	22643.8	22581.6	20471.9	16950.1	11827.9	6103.9
69°	14879.0	15183.2	16901.3	19797.8	22536.2	23207.0	22811.9	19340.5	14440.3	8568.3	3747.1
70°	14546.2	14853.8	16765.1	19777.6	22616.9	23148.1	22384.9	17943.6	12209.5	6265.3	2343.4
72.5°	12147.3	12412.9	14884.0	17876.4	20835.0	20403.0	18727.0	12431.4	5949.3	1706.3	527.8
75°	7477.4	7625.3	10679.7	13466.9	15736.4	14626.9	12476.8	6184.6	1773.5	482.4	292.5
77.5°	3950.4	4017.7	5846.7	7937.9	9975.4	8254.0	6394.8	2412.3	817.0	302.6	211.9
80°	2335.0	2385.4	3148.6	3629.4	4317.0	3605.9	2556.9	1481.0	585.0	190.0	188.3
82.5°	1336.5	1368.4	2282.9	2017.3	1701.3	1452.4	1272.6	1403.7	351.4	127.8	195.0
85°	490.9	497.6	1284.3	1534.8	1012.0	601.8	632.1	1163.3	94.1	80.7	152.9
87.5°	228.6	223.6	660.6	939.7	591.8	381.6	492.6	255.5	37.0	52.1	42.0
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°	4219.5	4219.5	4219.5	4219.5	4219.5	4219.5	4219.5	4219.5	4219.5	4219.5	4219.5
2.5°	4169.0	4106.8	3994.2	3878.2	3760.5	3669.7	3580.6	3510.1	3486.5	3442.8	3446.1
5°	4041.3	3926.9	3691.6	3452.9	3204.1	2999.0	2805.6	2649.3	2573.6	2496.4	2496.4
7.5°	3930.3	3763.8	3395.7	3007.4	2605.7	2267.8	1963.5	1734.8	1608.8	1507.9	1506.2
10°	3888.2	3663.0	3148.6	2592.2	2032.4	1571.8	1210.4	978.4	859.0	781.7	778.4
12.5°	3906.8	3627.7	2958.7	2208.9	1506.2	1010.3	701.0	551.4	500.9	477.4	477.4
15°	3960.6	3617.7	2768.7	1834.0	1064.1	632.1	465.6	425.3	422.0	422.0	422.0
17.5°	4026.1	3620.9	2573.6	1469.3	724.6	452.2	401.8	396.7	400.1	400.1	400.1
20°	4093.3	3622.7	2363.5	1131.4	511.1	393.3	378.3	376.5	379.9	379.9	381.6
22.5°	4175.8	3631.1	2153.4	845.6	422.0	371.5	359.8	359.8	361.4	361.4	359.8
25°	4269.9	3647.8	1934.9	627.1	384.9	356.4	346.3	344.6	346.3	344.6	342.9
27.5°	4387.5	3671.4	1691.1	490.9	368.2	341.3	332.9	332.9	331.1	329.5	327.9
30°	4535.5	3698.3	1417.1	416.9	351.4	327.9	319.4	317.7	316.0	312.7	312.7
32.5°	4760.7	3757.2	1146.5	378.3	332.9	309.3	302.6	302.6	299.2	295.8	294.2
35°	5107.1	3873.1	904.4	354.7	312.7	289.2	280.7	280.7	277.4	275.7	274.0
37.5°	5586.1	4049.7	702.7	332.9	292.5	267.3	258.9	257.2	253.8	250.5	248.8
40°	6223.2	4268.2	553.1	312.7	272.3	245.4	238.8	235.4	228.6	223.6	223.6
42.5°	7023.5	4516.9	448.9	290.8	248.8	225.3	220.2	215.1	203.4	198.4	196.7
45°	7860.6	4740.6	379.9	265.6	225.3	205.1	201.7	193.3	178.2	173.2	173.2
47.5°	8464.1	4792.7	334.5	242.0	203.4	183.2	181.6	166.4	152.9	149.7	147.9
50°	8840.6	4690.1	297.6	218.5	183.2	163.1	158.0	139.5	131.1	127.8	126.1
52.5°	9094.5	4506.9	267.3	198.4	164.7	144.5	132.8	119.4	112.6	109.3	109.3
55°	9297.9	4248.0	237.0	179.8	149.7	129.4	112.6	102.5	95.9	92.5	92.5
57.5°	9355.1	3896.7	206.7	164.7	134.5	114.3	95.9	89.1	80.7	79.0	79.0
60°	8939.9	3262.9	183.2	146.3	121.0	99.2	84.1	75.7	67.2	65.6	63.8
62.5°	7845.5	2524.9	161.4	129.4	105.9	85.7	72.3	62.2	55.4	55.4	55.4
65°	5984.6	1692.8	141.2	112.6	92.5	72.3	62.2	50.4	47.1	47.1	48.8
67.5°	3582.4	921.2	121.0	95.9	79.0	60.6	52.1	43.7	42.0	43.7	43.7
69°	2099.6	541.3	109.3	85.7	68.9	53.8	45.4	38.7	42.0	43.7	43.7
70°	1296.1	364.8	100.9	77.3	62.2	48.8	42.0	37.0	40.3	42.0	42.0
72.5°	361.4	188.3	80.7	60.6	50.4	40.3	33.7	33.7	38.7	40.3	40.3
75°	235.4	139.5	62.2	45.4	38.7	31.9	28.5	31.9	37.0	38.7	38.7
77.5°	195.0	114.3	50.4	37.0	31.9	30.3	26.9	28.5	33.7	35.3	35.3
80°	178.2	80.7	40.3	33.7	28.5	26.9	25.3	23.5	30.3	31.9	31.9
82.5°	169.8	63.8	35.3	30.3	26.9	23.5	21.9	23.5	26.9	28.5	30.3
85°	105.9	42.0	31.9	28.5	23.5	21.9	21.9	21.9	25.3	26.9	26.9
87.5°	38.7	33.7	28.5	23.5	20.2	20.2	20.2	20.2	21.9	25.3	25.3
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)