

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: P191195

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191195
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-SL4-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA 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: 23030.7 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

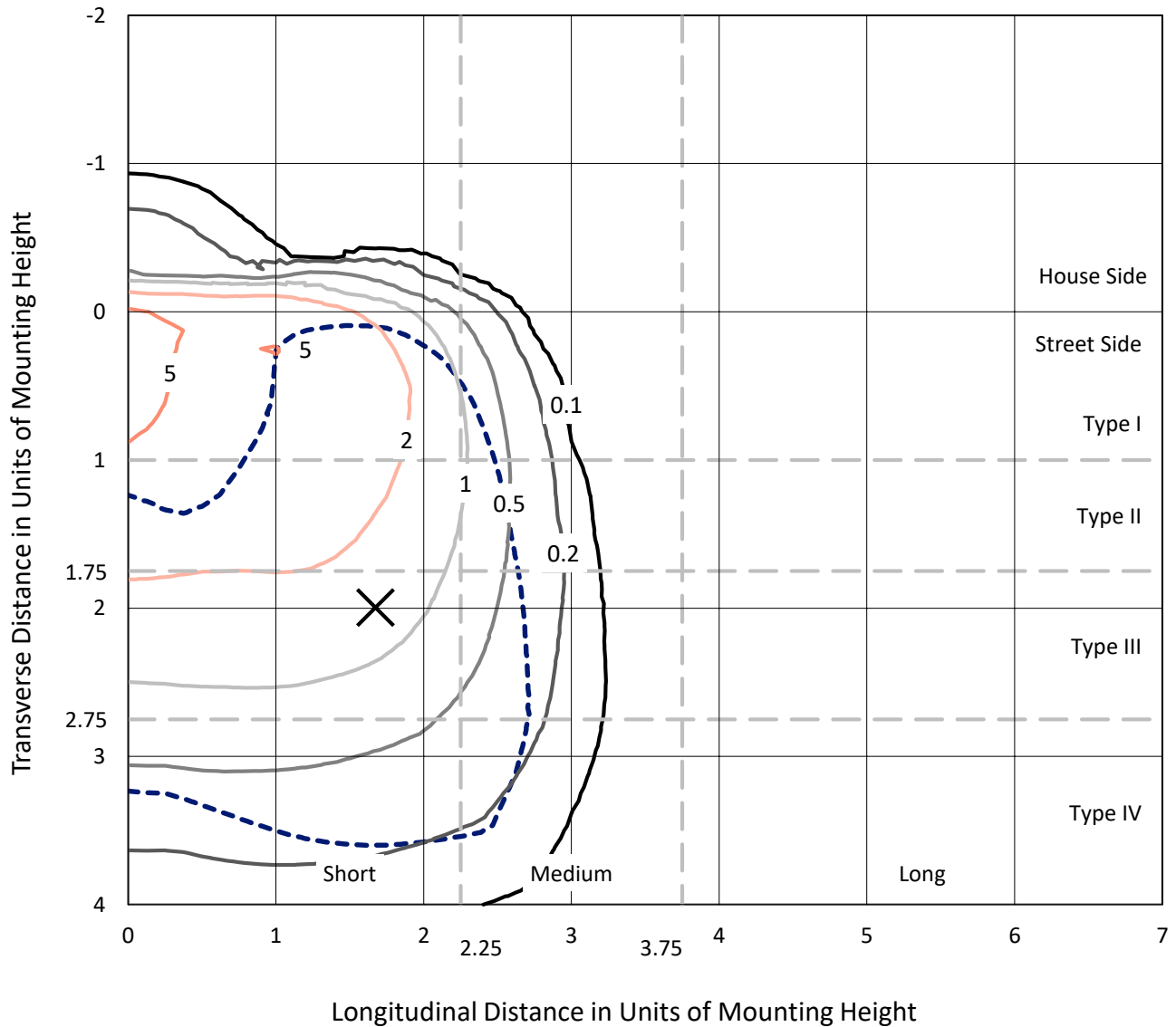
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

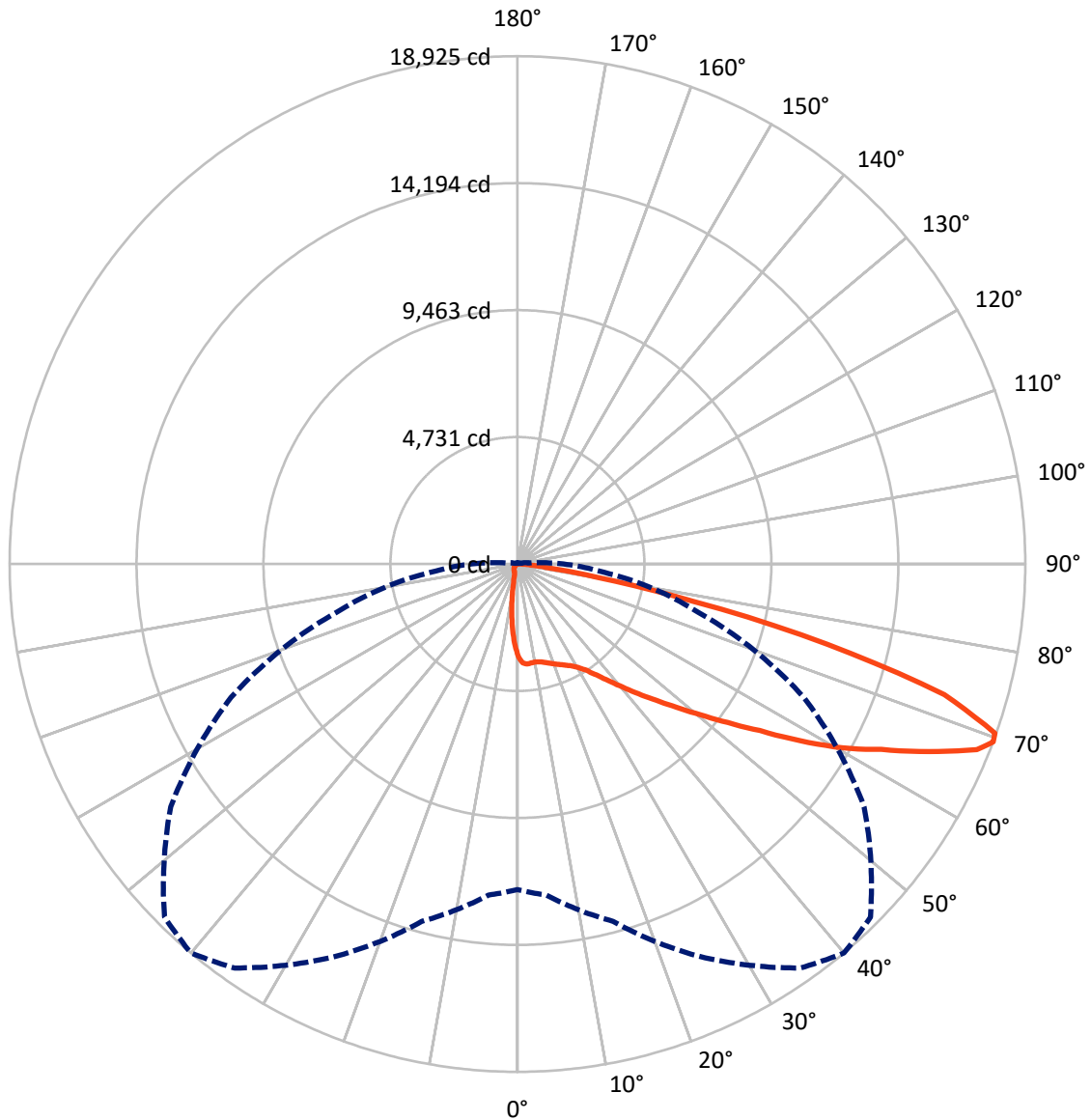
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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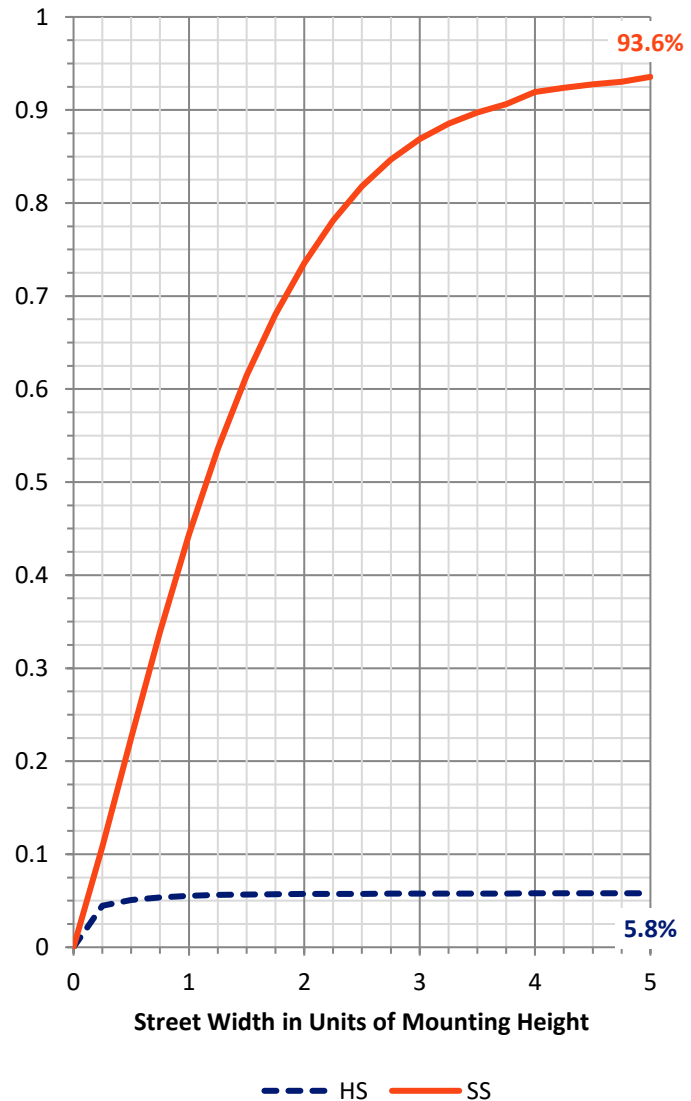
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1347.4	0.0	1347.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	21683.3	0.0	21683.3
	% Fixture	94.1	0.0	94.1
Total	Lumens	23030.7	0.0	23030.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.0	1.2
10°-20°	686.1	3.0
20°-30°	1155.6	5.0
30°-40°	1891.8	8.2
40°-50°	3275.5	14.2
50°-60°	5159.3	22.4
60°-70°	6737.8	29.3
70°-80°	3470.3	15.1
80°-90°	375.4	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°	23030.7	100.0
0°-180°	23030.7	100.0



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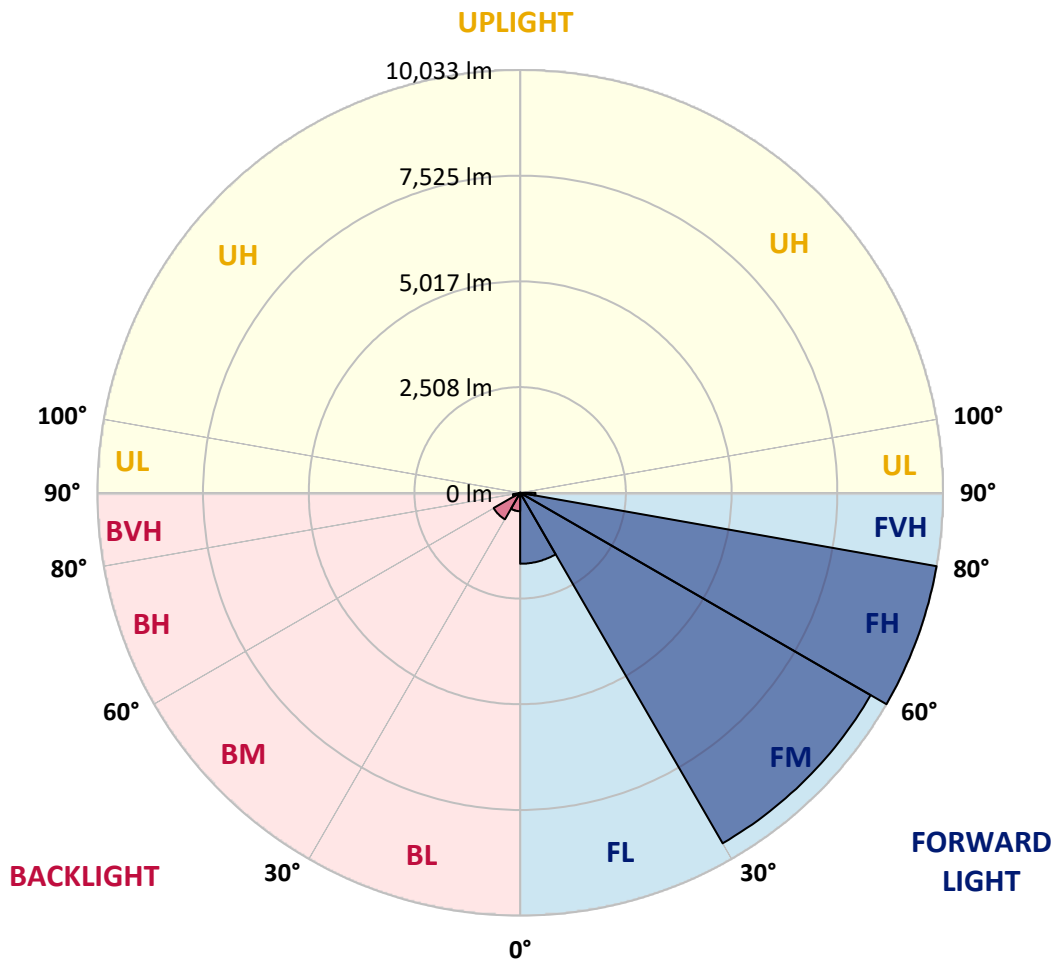
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1684.2	7.3			
FM	(30°-60°)	9602.4	41.7			
FH	(60°-80°)	10033.1	43.6			G4/12000
FVH	(80°-90°)	363.6	1.6			G3/500
BL	(0°-30°)	436.5	1.9	B1/500		
BM	(30°-60°)	724.2	3.1	B1/1000		
BH	(60°-80°)	175.0	0.8	B1/500		G1/500
BVH	(80°-90°)	11.8	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°	3440.9	3440.9	3440.9	3440.9	3440.9	3440.9	3440.9	3440.9	3440.9	3440.9	3440.9
2.5°	3778.2	3757.6	3745.2	3728.8	3708.2	3690.4	3683.5	3632.8	3584.8	3519.1	3443.7
5°	3848.0	3841.2	3819.3	3797.3	3772.6	3745.2	3730.2	3669.8	3601.3	3505.3	3373.7
7.5°	3854.9	3846.7	3819.3	3789.1	3754.8	3721.9	3695.9	3635.6	3572.6	3475.2	3314.8
10°	3843.9	3834.3	3813.8	3780.9	3738.4	3706.9	3680.8	3623.2	3569.8	3482.0	3303.8
12.5°	3831.6	3822.1	3812.4	3796.0	3758.9	3737.0	3715.1	3660.2	3612.2	3538.3	3343.6
15°	3843.9	3838.4	3849.5	3842.6	3822.1	3802.8	3780.9	3731.5	3687.6	3626.0	3416.2
17.5°	3896.0	3896.0	3930.3	3934.5	3915.2	3887.8	3856.3	3806.9	3769.9	3717.8	3502.6
20°	4018.0	4014.0	4057.8	4066.0	4019.4	3976.9	3930.3	3870.0	3841.2	3808.3	3587.6
22.5°	4227.8	4208.6	4234.6	4226.4	4134.6	4068.8	4011.2	3937.1	3922.1	3907.0	3682.2
25°	4500.6	4489.6	4507.4	4426.6	4264.8	4175.7	4107.1	4023.6	4023.6	4038.6	3789.1
27.5°	4896.8	4855.6	4795.3	4652.8	4410.1	4296.3	4222.3	4133.2	4156.6	4212.7	3930.3
30°	5302.6	5257.4	5118.8	4899.5	4586.9	4467.7	4381.3	4288.1	4342.9	4445.7	4119.5
32.5°	5702.8	5652.1	5456.1	5179.2	4840.6	4721.3	4637.6	4534.8	4626.7	4799.5	4396.4
35°	6090.9	6045.5	5819.4	5493.1	5177.8	5079.2	5002.3	4913.2	5031.1	5272.4	4787.1
37.5°	6526.7	6477.4	6201.8	5848.2	5587.7	5516.5	5460.2	5371.1	5576.7	5930.5	5331.3
40°	7062.8	6979.2	6607.6	6255.3	6062.0	6027.7	5989.4	5977.0	6296.5	6785.8	6056.6
42.5°	7676.9	7539.9	7032.6	6684.4	6583.0	6607.6	6598.0	6652.9	7197.1	7849.6	6939.4
45°	8291.1	8114.3	7505.6	7142.2	7156.0	7242.4	7295.8	7515.2	8325.4	9069.8	7889.4
47.5°	8812.0	8637.9	7959.4	7637.1	7801.6	7971.7	8117.0	8532.3	9485.1	10270.6	8628.3
50°	9257.5	9093.0	8440.5	8181.5	8551.6	8825.7	9061.5	9677.0	10732.6	11185.0	9146.5
52.5°	9622.2	9512.5	8939.5	8805.2	9408.4	9810.0	10155.4	10893.0	11837.6	11928.0	9549.6
55°	9977.2	9899.1	9475.5	9546.8	10414.6	10961.5	11398.8	12183.0	12788.9	12547.6	9936.1
57.5°	10385.8	10314.5	10086.9	10487.2	11737.4	12425.7	12902.7	13326.3	13626.5	13181.0	10300.8
60°	10802.6	10761.4	10766.9	11531.8	13256.4	13917.1	14180.3	14290.0	14449.1	13777.3	10321.4
62.5°	11200.1	11278.2	11544.2	12694.3	14711.0	15218.1	15351.1	15459.4	15273.0	13871.9	9535.8
65°	11873.2	12000.6	12635.4	14250.3	16310.7	16853.6	16990.7	16619.2	15403.2	12649.1	7756.4
67.5°	12202.2	12435.3	13567.6	15700.7	17862.6	18465.7	18415.1	16694.6	13822.6	9645.5	4977.7
69°	12133.6	12381.8	13782.8	16144.8	18378.0	18925.0	18602.9	15772.0	11775.9	6987.4	3055.7
70°	11862.2	12113.1	13671.7	16128.4	18443.8	18877.0	18254.7	14632.8	9956.7	5109.2	1911.0
72.5°	9905.9	10122.6	12137.7	14578.0	16990.7	16638.4	15271.6	10137.6	4851.5	1391.4	430.5
75°	6097.7	6218.3	8709.2	10982.1	12832.8	11928.0	10174.7	5043.5	1446.2	393.4	238.6
77.5°	3221.6	3276.4	4767.9	6473.3	8134.8	6731.0	5214.8	1967.2	666.2	246.7	172.8
80°	1904.1	1945.2	2567.6	2959.7	3520.4	2940.6	2085.1	1207.7	477.1	154.9	153.5
82.5°	1089.9	1115.9	1861.7	1645.0	1387.3	1184.5	1037.8	1144.7	286.5	104.1	159.1
85°	400.3	405.8	1047.4	1251.6	825.3	490.8	515.5	948.7	76.7	65.8	124.8
87.5°	186.5	182.3	538.8	766.3	482.5	311.2	401.7	208.4	30.2	42.5	34.3
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°	3440.9	3440.9	3440.9	3440.9	3440.9	3440.9	3440.9	3440.9	3440.9	3440.9	3440.9
2.5°	3399.8	3349.0	3257.2	3162.7	3066.7	2992.6	2920.0	2862.4	2843.2	2807.6	2810.4
5°	3295.6	3202.3	3010.4	2815.8	2612.9	2445.7	2288.0	2160.5	2098.8	2035.8	2035.8
7.5°	3205.1	3069.4	2769.1	2452.5	2124.9	1849.3	1601.2	1414.7	1311.9	1229.7	1228.3
10°	3170.8	2987.1	2567.6	2113.9	1657.4	1281.8	987.0	797.9	700.5	637.5	634.7
12.5°	3185.9	2958.4	2412.7	1801.3	1228.3	823.9	571.6	449.7	408.6	389.3	389.3
15°	3229.8	2950.1	2257.9	1495.7	867.8	515.5	379.7	346.9	344.1	344.1	344.1
17.5°	3283.3	2952.8	2098.8	1198.2	590.9	368.8	327.7	323.6	326.2	326.2	326.2
20°	3338.1	2954.3	1927.4	922.6	416.8	320.8	308.4	307.1	309.9	309.9	311.2
22.5°	3405.3	2961.1	1756.1	689.6	344.1	303.0	293.4	293.4	294.7	294.7	293.4
25°	3482.0	2974.8	1577.9	511.4	313.9	290.6	282.4	281.0	282.4	281.0	279.7
27.5°	3578.0	2994.0	1379.1	400.3	300.2	278.2	271.4	271.4	270.1	268.7	267.3
30°	3698.7	3016.0	1155.6	340.0	286.5	267.3	260.4	259.1	257.7	255.0	255.0
32.5°	3882.3	3063.9	935.0	308.4	271.4	252.3	246.7	246.7	244.0	241.3	239.9
35°	4164.7	3158.5	737.5	289.3	255.0	235.8	228.9	228.9	226.2	224.8	223.4
37.5°	4555.4	3302.5	573.1	271.4	238.6	218.0	211.1	209.7	207.0	204.3	202.9
40°	5075.0	3480.7	451.0	255.0	222.1	200.2	194.7	191.9	186.5	182.3	182.3
42.5°	5727.5	3683.5	366.0	237.1	202.9	183.7	179.6	175.4	165.9	161.7	160.4
45°	6410.2	3865.8	309.9	216.6	183.7	167.3	164.5	157.6	145.4	141.2	141.2
47.5°	6902.4	3908.4	272.8	197.4	165.9	149.5	148.0	135.7	124.8	122.0	120.6
50°	7209.5	3824.7	242.6	178.2	149.5	133.0	128.9	113.8	106.9	104.1	102.8
52.5°	7416.5	3675.4	218.0	161.7	134.3	117.9	108.3	97.3	91.9	89.1	89.1
55°	7582.3	3464.2	193.3	146.7	122.0	105.6	91.9	83.6	78.2	75.4	75.4
57.5°	7629.0	3177.7	168.6	134.3	109.7	93.2	78.2	72.6	65.8	64.4	64.4
60°	7290.4	2660.9	149.5	119.3	98.7	80.9	68.5	61.7	54.8	53.5	52.1
62.5°	6397.9	2059.1	131.7	105.6	86.3	69.9	58.9	50.7	45.2	45.2	45.2
65°	4880.3	1380.5	115.2	91.9	75.4	58.9	50.7	41.1	38.4	38.4	39.8
67.5°	2921.3	751.3	98.7	78.2	64.4	49.3	42.5	35.6	34.3	35.6	35.6
69°	1712.2	441.4	89.1	69.9	56.2	43.9	37.0	31.5	34.3	35.6	35.6
70°	1056.9	297.5	82.2	63.0	50.7	39.8	34.3	30.2	32.9	34.3	34.3
72.5°	294.7	153.5	65.8	49.3	41.1	32.9	27.4	27.4	31.5	32.9	32.9
75°	191.9	113.8	50.7	37.0	31.5	26.1	23.3	26.1	30.2	31.5	31.5
77.5°	159.1	93.2	41.1	30.2	26.1	24.7	21.9	23.3	27.4	28.7	28.7
80°	145.4	65.8	32.9	27.4	23.3	21.9	20.6	19.2	24.7	26.1	26.1
82.5°	138.5	52.1	28.7	24.7	21.9	19.2	17.8	19.2	21.9	23.3	24.7
85°	86.3	34.3	26.1	23.3	19.2	17.8	17.8	17.8	20.6	21.9	21.9
87.5°	31.5	27.4	23.3	19.2	16.5	16.5	16.5	16.5	17.8	20.6	20.6
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)