

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: P269485

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269485
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-SL4-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 23986.4 lumens
Efficiency: N/A
Efficacy: 81.3 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): 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

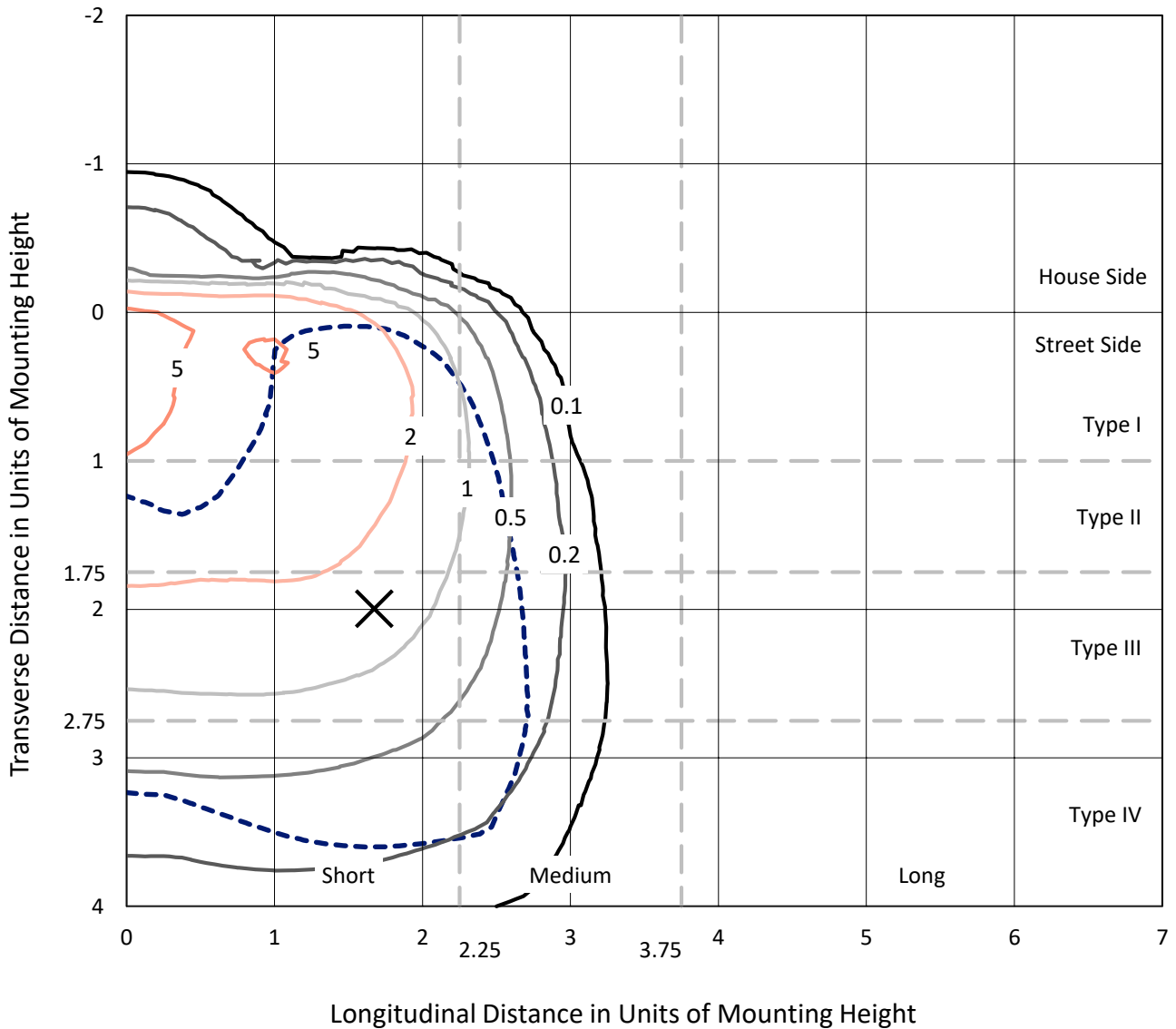


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Iso-Footcandle Lines of Horizontal Illumination

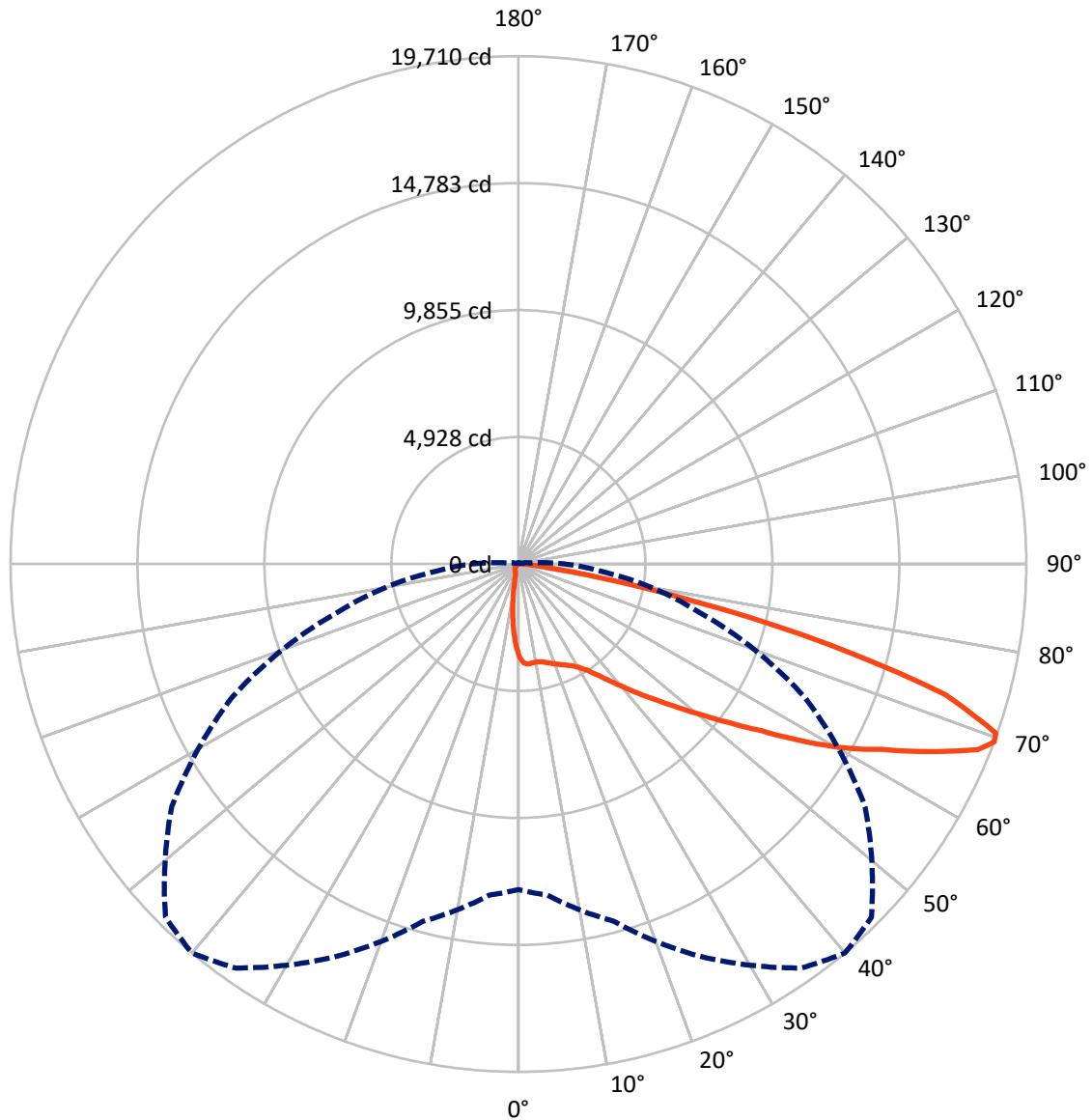
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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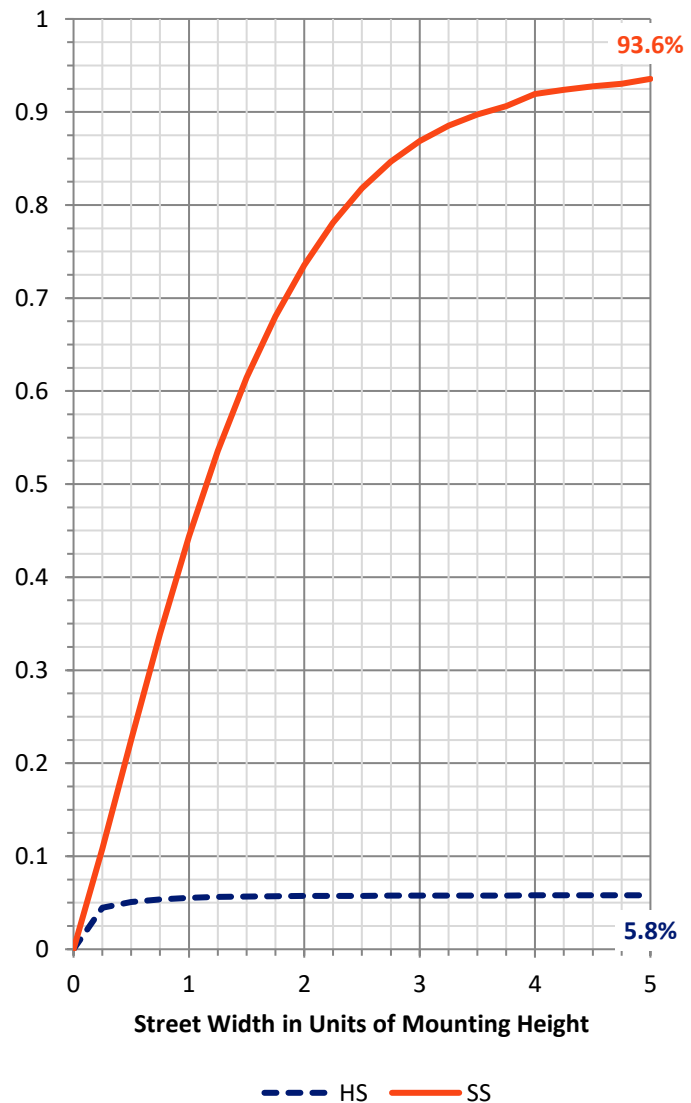
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1403.3	0.0	1403.3
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	22583.1	0.0	22583.1
	% Fixture	94.1	0.0	94.1
Total	Lumens	23986.4	0.0	23986.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.6	1.2
10°-20°	714.5	3.0
20°-30°	1203.6	5.0
30°-40°	1970.3	8.2
40°-50°	3411.5	14.2
50°-60°	5373.4	22.4
60°-70°	7017.4	29.3
70°-80°	3614.3	15.1
80°-90°	390.9	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°	23986.4	100.0
0°-180°	23986.4	100.0



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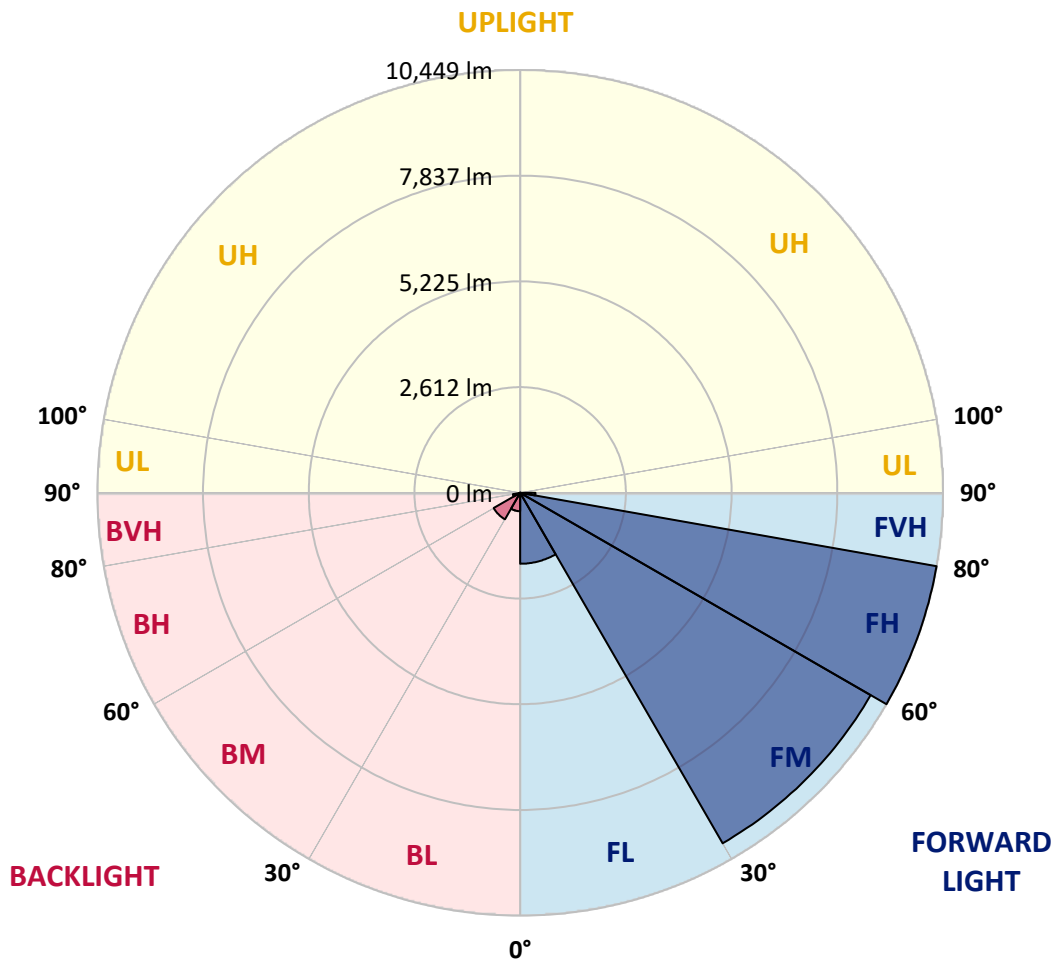
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1754.1	7.3			
FM	(30°-60°)	10000.8	41.7			
FH	(60°-80°)	10449.5	43.6			G4/12000
FVH	(80°-90°)	378.7	1.6			G3/500
BL	(0°-30°)	454.6	1.9	B1/500		
BM	(30°-60°)	754.3	3.1	B1/1000		
BH	(60°-80°)	182.2	0.8	B1/500		G1/500
BVH	(80°-90°)	12.3	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°	3583.7	3583.7	3583.7	3583.7	3583.7	3583.7	3583.7	3583.7	3583.7	3583.7	3583.7
2.5°	3934.9	3913.5	3900.7	3883.6	3862.2	3843.6	3836.4	3783.7	3733.6	3665.1	3586.6
5°	4007.8	4000.6	3977.8	3954.9	3929.2	3900.7	3885.0	3822.1	3750.8	3650.8	3513.7
7.5°	4014.9	4006.4	3977.8	3946.3	3910.6	3876.4	3849.2	3786.4	3720.8	3619.5	3452.4
10°	4003.4	3993.4	3972.0	3937.8	3893.6	3860.6	3833.5	3773.6	3717.9	3626.5	3440.9
12.5°	3990.6	3980.6	3970.6	3953.5	3915.0	3892.0	3869.3	3812.1	3762.2	3685.0	3482.3
15°	4003.4	3997.7	4009.1	4001.9	3980.6	3960.6	3937.8	3886.3	3840.8	3776.5	3557.9
17.5°	4057.7	4057.7	4093.3	4097.7	4077.6	4049.1	4016.3	3964.8	3926.3	3872.1	3647.9
20°	4184.8	4180.5	4226.2	4234.8	4186.2	4141.9	4093.3	4030.5	4000.6	3966.3	3736.5
22.5°	4403.2	4383.2	4410.4	4401.9	4306.1	4237.7	4177.7	4100.6	4084.9	4069.1	3835.0
25°	4687.4	4675.9	4694.5	4610.2	4441.8	4349.0	4277.5	4190.6	4190.6	4206.3	3946.3
27.5°	5099.9	5057.2	4994.3	4845.8	4593.2	4474.5	4397.6	4304.7	4329.0	4387.5	4093.3
30°	5522.6	5475.4	5331.4	5102.8	4777.2	4653.1	4563.1	4466.1	4523.1	4630.3	4290.5
32.5°	5939.6	5886.8	5682.5	5394.1	5041.5	4917.2	4830.1	4723.1	4818.7	4998.6	4578.8
35°	6343.7	6296.5	6060.9	5721.0	5392.6	5289.8	5209.9	5117.1	5240.0	5491.2	4985.8
37.5°	6797.7	6746.2	6459.3	6090.9	5819.6	5745.3	5686.8	5593.9	5808.1	6176.6	5552.7
40°	7355.9	7268.7	6881.8	6514.9	6313.6	6277.9	6237.9	6225.1	6557.7	7067.4	6307.9
42.5°	7995.5	7852.8	7324.4	6961.8	6856.1	6881.8	6871.9	6928.9	7495.7	8175.4	7227.4
45°	8635.1	8451.0	7817.1	7438.7	7453.0	7542.9	7598.6	7827.0	8670.8	9446.0	8216.7
47.5°	9177.8	8996.3	8289.6	7954.1	8125.3	8302.5	8453.8	8886.5	9878.8	10696.8	8986.4
50°	9641.7	9470.4	8790.8	8521.0	8906.4	9191.9	9437.6	10078.7	11178.0	11649.1	9526.0
52.5°	10021.5	9907.2	9310.5	9170.5	9798.7	10217.1	10577.0	11345.1	12328.8	12423.0	9945.9
55°	10391.4	10309.8	9868.7	9943.0	10846.8	11416.4	11871.9	12688.6	13319.7	13068.4	10348.5
57.5°	10816.9	10742.6	10505.5	10922.4	12224.6	12941.3	13438.1	13879.4	14192.1	13728.0	10728.3
60°	11250.8	11208.0	11213.7	12010.3	13806.5	14494.7	14768.9	14883.1	15048.6	14349.0	10749.7
62.5°	11664.9	11746.2	12023.3	13221.2	15321.4	15849.7	15988.2	16101.0	15906.7	14447.6	9931.5
65°	12365.9	12498.7	13159.7	14841.6	16987.6	17553.1	17695.7	17308.8	16042.4	13174.1	8078.3
67.5°	12708.5	12951.3	14130.6	16352.1	18603.8	19232.1	19179.3	17387.4	14396.1	10045.7	5184.2
69°	12637.1	12895.6	14354.7	16814.8	19140.6	19710.3	19374.9	16426.4	12264.5	7277.3	3182.4
70°	12354.5	12615.7	14239.2	16797.6	19209.1	19660.3	19012.2	15239.9	10369.9	5321.3	1990.4
72.5°	10317.0	10542.6	12641.5	15182.9	17695.7	17328.8	15905.3	10558.4	5052.8	1449.1	448.3
75°	6350.7	6476.3	9070.5	11437.8	13365.3	12423.0	10596.9	5252.7	1506.3	409.7	248.4
77.5°	3355.3	3412.3	4965.8	6741.9	8472.4	7010.4	5431.2	2048.9	693.9	256.9	179.9
80°	1983.2	2025.9	2674.3	3082.5	3666.5	3062.5	2171.7	1257.8	496.9	161.3	159.9
82.5°	1135.1	1162.1	1938.9	1713.2	1445.0	1233.6	1080.8	1192.2	298.3	108.5	165.6
85°	417.0	422.7	1090.8	1303.5	859.5	511.1	536.8	988.0	79.9	68.5	130.0
87.5°	194.2	189.9	561.1	798.1	502.6	324.1	418.3	217.0	31.4	44.2	35.8
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°	3583.7	3583.7	3583.7	3583.7	3583.7	3583.7	3583.7	3583.7	3583.7	3583.7	3583.7
2.5°	3540.8	3487.9	3392.4	3293.8	3194.0	3116.8	3041.1	2981.1	2961.3	2924.1	2926.9
5°	3432.3	3335.2	3135.4	2932.6	2721.3	2547.1	2382.9	2250.2	2185.9	2120.2	2120.2
7.5°	3338.1	3196.8	2884.1	2554.3	2213.1	1926.1	1667.7	1473.5	1366.4	1280.8	1279.2
10°	3302.3	3111.1	2674.3	2201.7	1726.2	1335.1	1028.0	830.9	729.7	663.8	661.1
12.5°	3318.1	3081.1	2512.9	1876.1	1279.2	858.2	595.3	468.2	425.4	405.5	405.5
15°	3363.9	3072.6	2351.6	1557.8	903.8	536.8	395.6	361.2	358.3	358.3	358.3
17.5°	3419.5	3075.3	2185.9	1247.8	615.3	384.0	341.3	337.0	339.7	339.7	339.7
20°	3476.6	3076.9	2007.4	960.8	434.1	334.1	321.2	319.8	322.8	322.8	324.1
22.5°	3546.6	3084.1	1828.9	718.1	358.3	315.6	305.6	305.6	307.0	307.0	305.6
25°	3626.5	3098.3	1643.4	532.5	327.0	302.6	294.1	292.7	294.1	292.7	291.3
27.5°	3726.4	3118.2	1436.3	417.0	312.7	289.9	282.6	282.6	281.3	279.8	278.5
30°	3852.1	3141.2	1203.5	354.1	298.3	278.5	271.3	269.9	268.5	265.5	265.5
32.5°	4043.5	3191.0	973.8	321.2	282.6	262.8	256.9	256.9	254.1	251.3	249.9
35°	4337.6	3289.6	768.1	301.2	265.5	245.5	238.4	238.4	235.5	234.2	232.8
37.5°	4744.5	3439.5	596.8	282.6	248.4	227.0	219.8	218.5	215.7	212.8	211.3
40°	5285.5	3625.1	469.8	265.5	231.4	208.4	202.7	200.0	194.2	189.9	189.9
42.5°	5965.3	3836.4	381.2	247.0	211.3	191.2	187.0	182.7	172.7	168.5	167.1
45°	6676.3	4026.4	322.8	225.6	191.2	174.2	171.3	164.2	151.4	147.1	147.1
47.5°	7188.7	4070.6	284.1	205.6	172.7	155.6	154.1	141.4	130.0	127.1	125.7
50°	7508.7	3983.4	252.8	185.6	155.6	138.5	134.1	118.4	111.4	108.5	107.1
52.5°	7724.3	3827.9	227.0	168.5	140.0	122.8	112.7	101.4	95.7	92.9	92.9
55°	7897.0	3608.0	201.3	152.8	127.1	110.0	95.7	87.0	81.3	78.5	78.5
57.5°	7945.5	3309.5	175.6	140.0	114.3	97.0	81.3	75.6	68.5	67.2	67.2
60°	7592.8	2771.4	155.6	124.2	102.8	84.3	71.3	64.3	57.1	55.7	54.3
62.5°	6663.4	2144.6	137.1	110.0	89.9	72.9	61.4	52.8	47.2	47.2	47.2
65°	5082.9	1437.7	120.0	95.7	78.5	61.4	52.8	42.8	40.0	40.0	41.4
67.5°	3042.6	782.5	102.8	81.3	67.2	51.5	44.2	37.1	35.8	37.1	37.1
69°	1783.2	459.8	92.9	72.9	58.5	45.8	38.5	32.9	35.8	37.1	37.1
70°	1100.9	309.8	85.7	65.7	52.8	41.4	35.8	31.4	34.2	35.8	35.8
72.5°	307.0	159.9	68.5	51.5	42.8	34.2	28.6	28.6	32.9	34.2	34.2
75°	200.0	118.4	52.8	38.5	32.9	27.0	24.3	27.0	31.4	32.9	32.9
77.5°	165.6	97.0	42.8	31.4	27.0	25.7	22.8	24.3	28.6	30.0	30.0
80°	151.4	68.5	34.2	28.6	24.3	22.8	21.4	20.0	25.7	27.0	27.0
82.5°	144.2	54.3	30.0	25.7	22.8	20.0	18.5	20.0	22.8	24.3	25.7
85°	89.9	35.8	27.0	24.3	20.0	18.5	18.5	18.5	21.4	22.8	22.8
87.5°	32.9	28.6	24.3	20.0	17.2	17.2	17.2	17.2	18.5	21.4	21.4
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)