

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: P193736

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193736
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-08-LED-E1-SL4-8030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 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: 20816 lumens
Efficiency: N/A
Efficacy: 81.0 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): 257
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

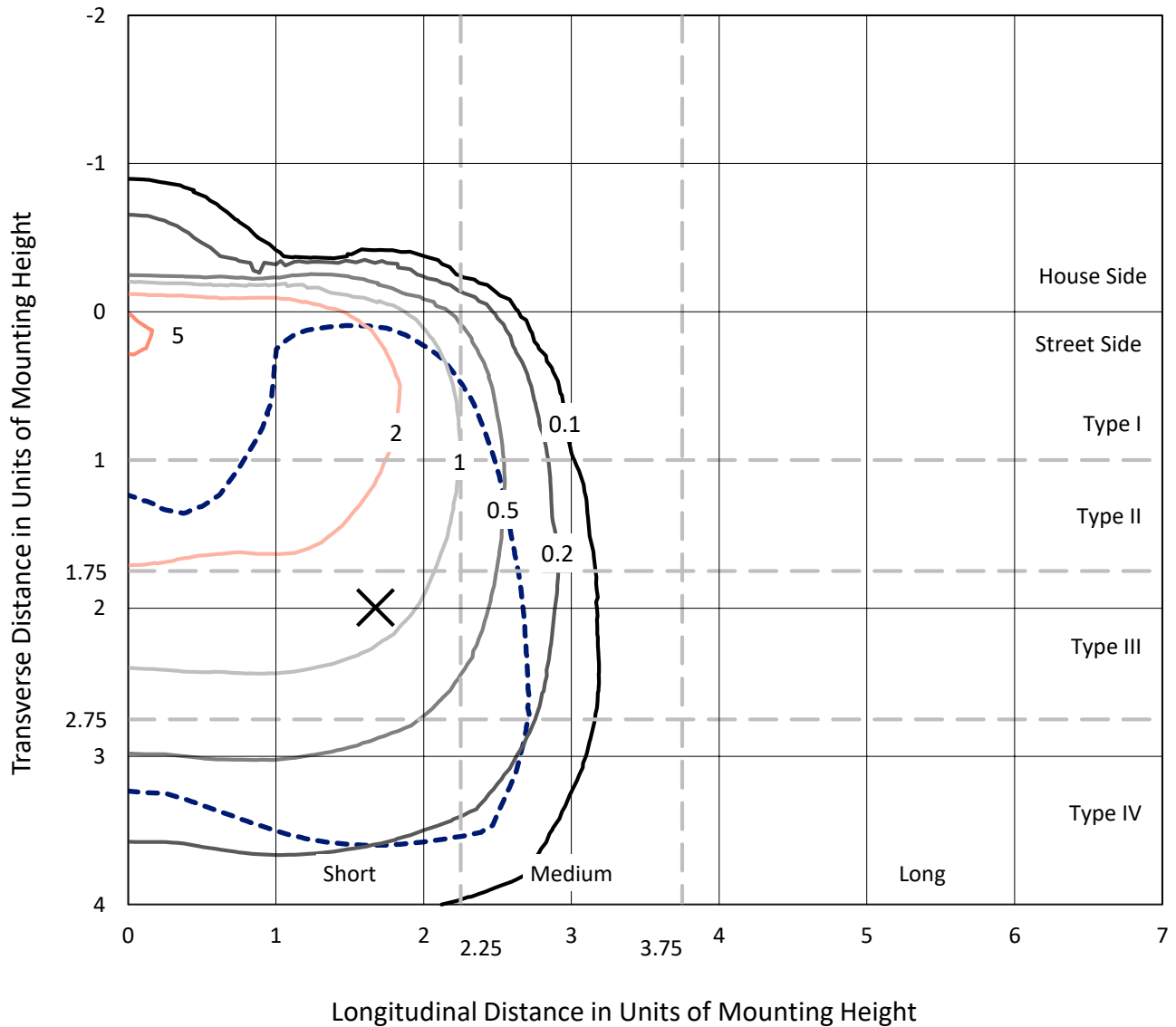


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

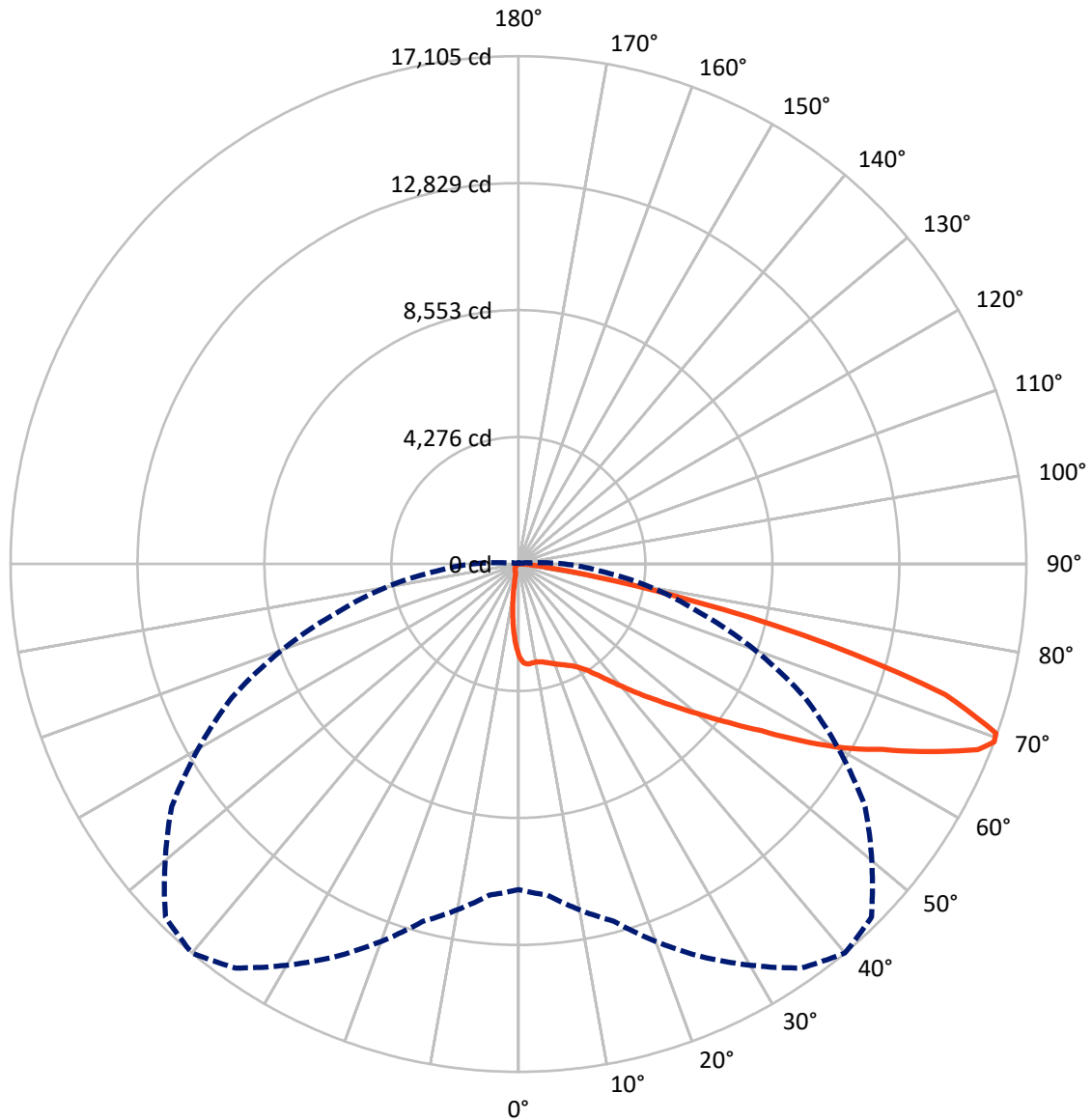


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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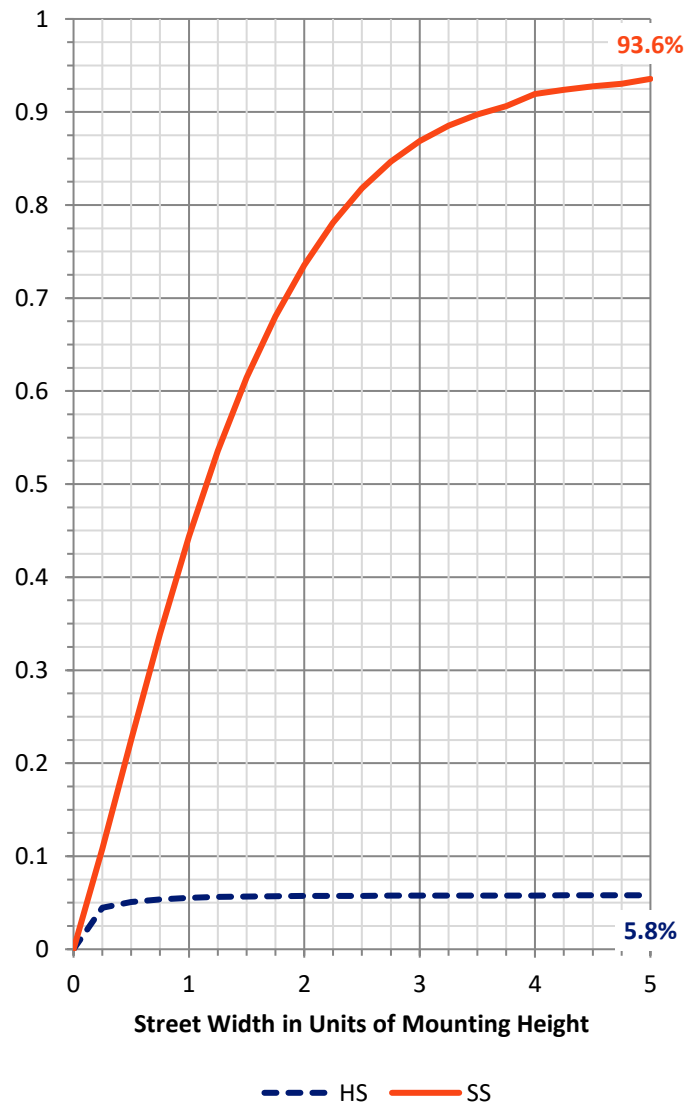
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1217.8	0.0	1217.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	19598.1	0.0	19598.1
	% Fixture	94.1	0.0	94.1
Total	Lumens	20816.0	0.0	20816.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.2	1.2
10°-20°	620.1	3.0
20°-30°	1044.5	5.0
30°-40°	1709.8	8.2
40°-50°	2960.5	14.2
50°-60°	4663.1	22.4
60°-70°	6089.9	29.3
70°-80°	3136.6	15.1
80°-90°	339.3	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°	20816.0	100.0
0°-180°	20816.0	100.0

Coefficient of Utilization



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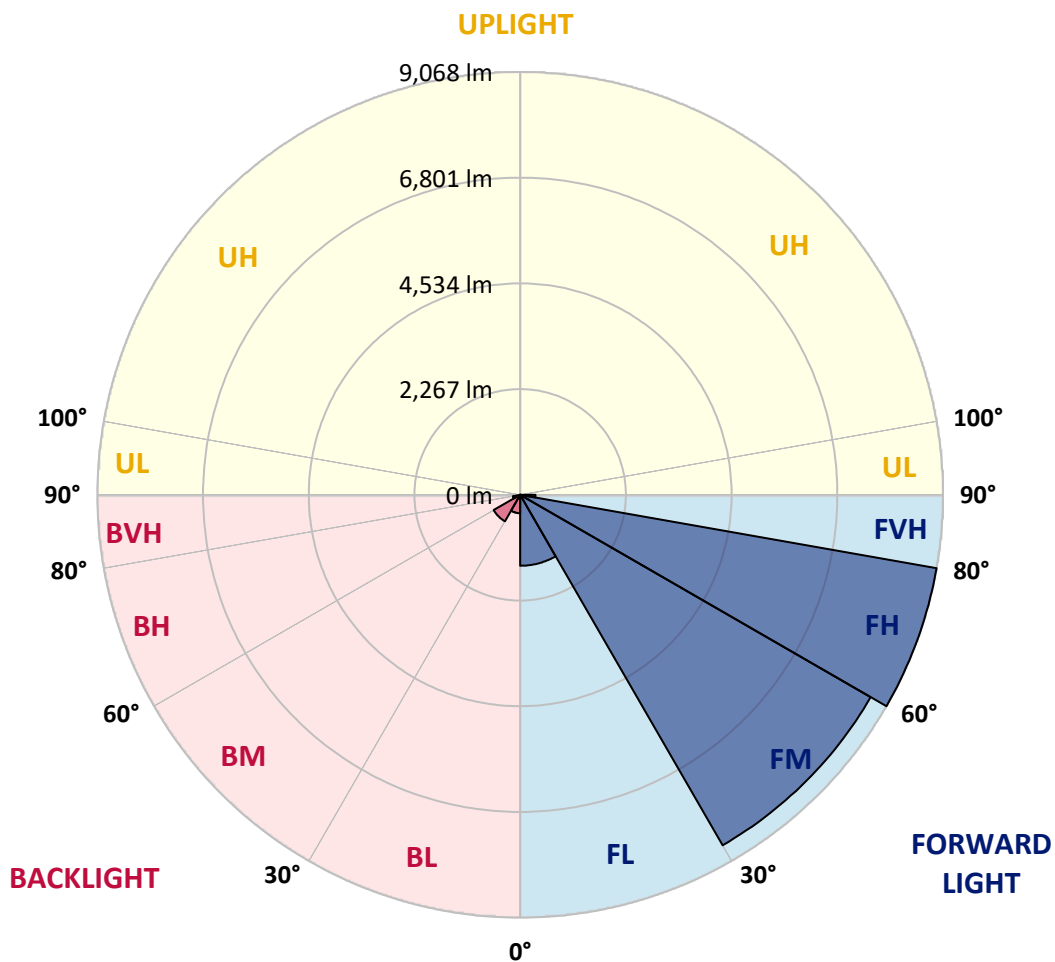
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1522.2	7.3			
FM	(30°-60°)	8679.0	41.7			
FH	(60°-80°)	9068.3	43.6			G4/12000
FVH	(80°-90°)	328.6	1.6			G3/500
BL	(0°-30°)	394.5	1.9	B1/500		
BM	(30°-60°)	654.6	3.1	B1/1000		
BH	(60°-80°)	158.1	0.8	B1/500		G1/500
BVH	(80°-90°)	10.6	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°	3110.0	3110.0	3110.0	3110.0	3110.0	3110.0	3110.0	3110.0	3110.0	3110.0	3110.0
2.5°	3414.8	3396.2	3385.1	3370.2	3351.6	3335.5	3329.3	3283.5	3240.1	3180.6	3112.5
5°	3478.0	3471.8	3452.0	3432.2	3409.9	3385.1	3371.5	3316.9	3255.0	3168.3	3049.3
7.5°	3484.2	3476.8	3452.0	3424.7	3393.8	3364.0	3340.5	3286.0	3229.0	3141.0	2996.0
10°	3474.3	3465.6	3447.0	3417.3	3378.9	3350.4	3326.9	3274.8	3226.5	3147.2	2986.1
12.5°	3463.1	3454.5	3445.8	3430.9	3397.5	3377.7	3357.8	3308.3	3264.9	3198.0	3022.0
15°	3474.3	3469.3	3479.3	3473.1	3454.5	3437.1	3417.3	3372.7	3333.0	3277.3	3087.7
17.5°	3521.4	3521.4	3552.4	3556.1	3538.7	3513.9	3485.4	3440.8	3407.4	3360.3	3165.8
20°	3631.7	3627.9	3667.6	3675.0	3632.9	3594.5	3552.4	3497.8	3471.8	3442.1	3242.6
22.5°	3821.2	3803.9	3827.4	3820.0	3737.0	3677.5	3625.5	3558.6	3544.9	3531.3	3328.1
25°	4067.8	4057.9	4074.0	4000.9	3854.7	3774.1	3712.2	3636.6	3636.6	3650.2	3424.7
27.5°	4425.9	4388.7	4334.2	4205.3	3986.0	3883.2	3816.3	3735.7	3756.8	3807.6	3552.4
30°	4792.6	4751.8	4626.6	4428.4	4145.9	4038.1	3960.0	3875.8	3925.3	4018.2	3723.3
32.5°	5154.5	5108.6	4931.4	4681.1	4375.1	4267.3	4191.7	4098.8	4181.8	4337.9	3973.6
35°	5505.1	5464.2	5259.8	4964.9	4679.9	4590.7	4521.3	4440.8	4547.3	4765.4	4326.8
37.5°	5899.1	5854.5	5605.5	5285.8	5050.4	4985.9	4935.1	4854.6	5040.5	5360.1	4818.7
40°	6383.6	6308.0	5972.2	5653.8	5479.1	5448.1	5413.4	5402.3	5691.0	6133.3	5474.1
42.5°	6938.7	6814.8	6356.3	6041.6	5949.9	5972.2	5963.6	6013.1	6505.0	7094.8	6272.1
45°	7493.8	7333.9	6783.8	6455.5	6467.8	6545.9	6594.2	6792.5	7524.8	8197.6	7130.7
47.5°	7964.6	7807.3	7193.9	6902.8	7051.4	7205.1	7336.4	7711.9	8573.0	9283.0	7798.6
50°	8367.3	8218.6	7628.8	7394.7	7729.2	7977.0	8190.1	8746.5	9700.5	10109.4	8266.9
52.5°	8696.9	8597.8	8079.9	7958.4	8503.6	8866.6	9178.9	9845.5	10699.2	10781.0	8631.2
55°	9017.8	8947.2	8564.3	8628.7	9413.1	9907.4	10302.7	11011.4	11559.1	11341.0	8980.6
57.5°	9387.0	9322.6	9116.9	9478.7	10608.8	11230.8	11661.9	12044.8	12316.2	11913.5	9310.2
60°	9763.7	9726.5	9731.5	10422.9	11981.6	12578.8	12816.7	12915.9	13059.6	12452.5	9328.8
62.5°	10123.0	10193.7	10434.0	11473.6	13296.3	13754.7	13874.9	13972.8	13804.3	12538.0	8618.8
65°	10731.4	10846.7	11420.3	12879.9	14742.2	15232.9	15356.8	15021.0	13922.0	11432.7	7010.5
67.5°	11028.8	11239.4	12262.9	14190.8	16144.8	16690.0	16644.2	15089.2	12493.3	8718.0	4499.0
69°	10966.8	11191.1	12457.4	14592.3	16610.7	17105.1	16813.9	14255.3	10643.4	6315.4	2761.8
70°	10721.5	10948.3	12357.1	14577.4	16670.2	17061.7	16499.2	13225.6	8999.2	4617.9	1727.2
72.5°	8953.4	9149.2	10970.6	13176.1	15356.8	15038.4	13803.0	9162.8	4385.0	1257.6	389.1
75°	5511.3	5620.3	7871.7	9926.0	11598.8	10781.0	9196.2	4558.5	1307.2	355.6	215.6
77.5°	2911.8	2961.3	4309.4	5850.8	7352.5	6083.7	4713.3	1778.0	602.2	223.0	156.1
80°	1721.0	1758.2	2320.7	2675.1	3181.9	2657.8	1884.6	1091.6	431.2	140.0	138.8
82.5°	985.0	1008.6	1682.6	1486.9	1253.9	1070.5	938.0	1034.6	259.0	94.2	143.7
85°	361.8	366.8	946.6	1131.3	745.9	443.6	465.9	857.4	69.4	59.5	112.8
87.5°	168.5	164.8	486.9	692.6	436.1	281.3	363.0	188.3	27.3	38.4	31.0
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°	3110.0	3110.0	3110.0	3110.0	3110.0	3110.0	3110.0	3110.0	3110.0	3110.0	3110.0
2.5°	3072.8	3027.0	2944.0	2858.5	2771.8	2704.8	2639.2	2587.1	2569.8	2537.6	2540.1
5°	2978.7	2894.4	2721.0	2545.0	2361.6	2210.5	2068.0	1952.7	1897.0	1840.0	1840.0
7.5°	2896.9	2774.2	2502.9	2216.7	1920.5	1671.5	1447.2	1278.7	1185.8	1111.4	1110.2
10°	2865.9	2699.9	2320.7	1910.6	1498.0	1158.5	892.1	721.1	633.2	576.2	573.7
12.5°	2879.6	2673.9	2180.7	1628.1	1110.2	744.7	516.7	406.4	369.2	351.9	351.9
15°	2919.2	2666.4	2040.7	1351.8	784.3	465.9	343.2	313.5	311.0	311.0	311.0
17.5°	2967.5	2668.9	1897.0	1082.9	534.0	333.3	296.1	292.4	294.9	294.9	294.9
20°	3017.1	2670.2	1742.1	833.9	376.7	289.9	278.8	277.5	280.0	280.0	281.3
22.5°	3077.8	2676.3	1587.2	623.2	311.0	273.8	265.2	265.2	266.4	266.4	265.2
25°	3147.2	2688.7	1426.1	462.2	283.7	262.7	255.2	254.0	255.2	254.0	252.8
27.5°	3233.9	2706.1	1246.5	361.8	271.4	251.5	245.3	245.3	244.1	242.9	241.6
30°	3343.0	2725.9	1044.5	307.3	259.0	241.6	235.4	234.2	232.9	230.5	230.5
32.5°	3509.0	2769.3	845.0	278.8	245.3	228.0	223.0	223.0	220.6	218.1	216.8
35°	3764.2	2854.8	666.6	261.4	230.5	213.1	206.9	206.9	204.4	203.2	202.0
37.5°	4117.4	2984.9	517.9	245.3	215.6	197.0	190.8	189.6	187.1	184.6	183.4
40°	4587.0	3145.9	407.6	230.5	200.7	180.9	175.9	173.5	168.5	164.8	164.8
42.5°	5176.8	3329.3	330.8	214.4	183.4	166.0	162.3	158.6	149.9	146.2	145.0
45°	5793.8	3494.1	280.0	195.8	166.0	151.2	148.7	142.5	131.3	127.6	127.6
47.5°	6238.6	3532.5	246.6	178.4	149.9	135.1	133.8	122.7	112.8	110.3	109.0
50°	6516.2	3457.0	219.3	161.1	135.1	120.2	116.5	102.8	96.6	94.2	92.9
52.5°	6703.3	3321.9	197.0	146.2	121.4	106.6	97.9	88.0	83.0	80.5	80.5
55°	6853.2	3131.1	174.7	132.6	110.3	95.4	83.0	75.6	70.6	68.1	68.1
57.5°	6895.3	2872.1	152.4	121.4	99.1	84.3	70.6	65.7	59.5	58.2	58.2
60°	6589.3	2405.0	135.1	107.8	89.2	73.1	62.0	55.8	49.6	48.3	47.1
62.5°	5782.6	1861.1	118.9	95.4	78.1	63.2	53.3	45.8	40.9	40.9	40.9
65°	4411.0	1247.7	104.1	83.0	68.1	53.3	45.8	37.2	34.7	34.7	35.9
67.5°	2640.4	679.0	89.2	70.6	58.2	44.6	38.4	32.2	31.0	32.2	32.2
69°	1547.6	399.0	80.5	63.2	50.8	39.6	33.5	28.5	31.0	32.2	32.2
70°	955.3	268.9	74.3	57.0	45.8	35.9	31.0	27.3	29.7	31.0	31.0
72.5°	266.4	138.8	59.5	44.6	37.2	29.7	24.8	24.8	28.5	29.7	29.7
75°	173.5	102.8	45.8	33.5	28.5	23.5	21.1	23.5	27.3	28.5	28.5
77.5°	143.7	84.3	37.2	27.3	23.5	22.3	19.8	21.1	24.8	26.0	26.0
80°	131.3	59.5	29.7	24.8	21.1	19.8	18.6	17.3	22.3	23.5	23.5
82.5°	125.1	47.1	26.0	22.3	19.8	17.3	16.1	17.3	19.8	21.1	22.3
85°	78.1	31.0	23.5	21.1	17.3	16.1	16.1	16.1	18.6	19.8	19.8
87.5°	28.5	24.8	21.1	17.3	14.9	14.9	14.9	14.9	16.1	18.6	18.6
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)