

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: P193681

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-SL3-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13897 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 191
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

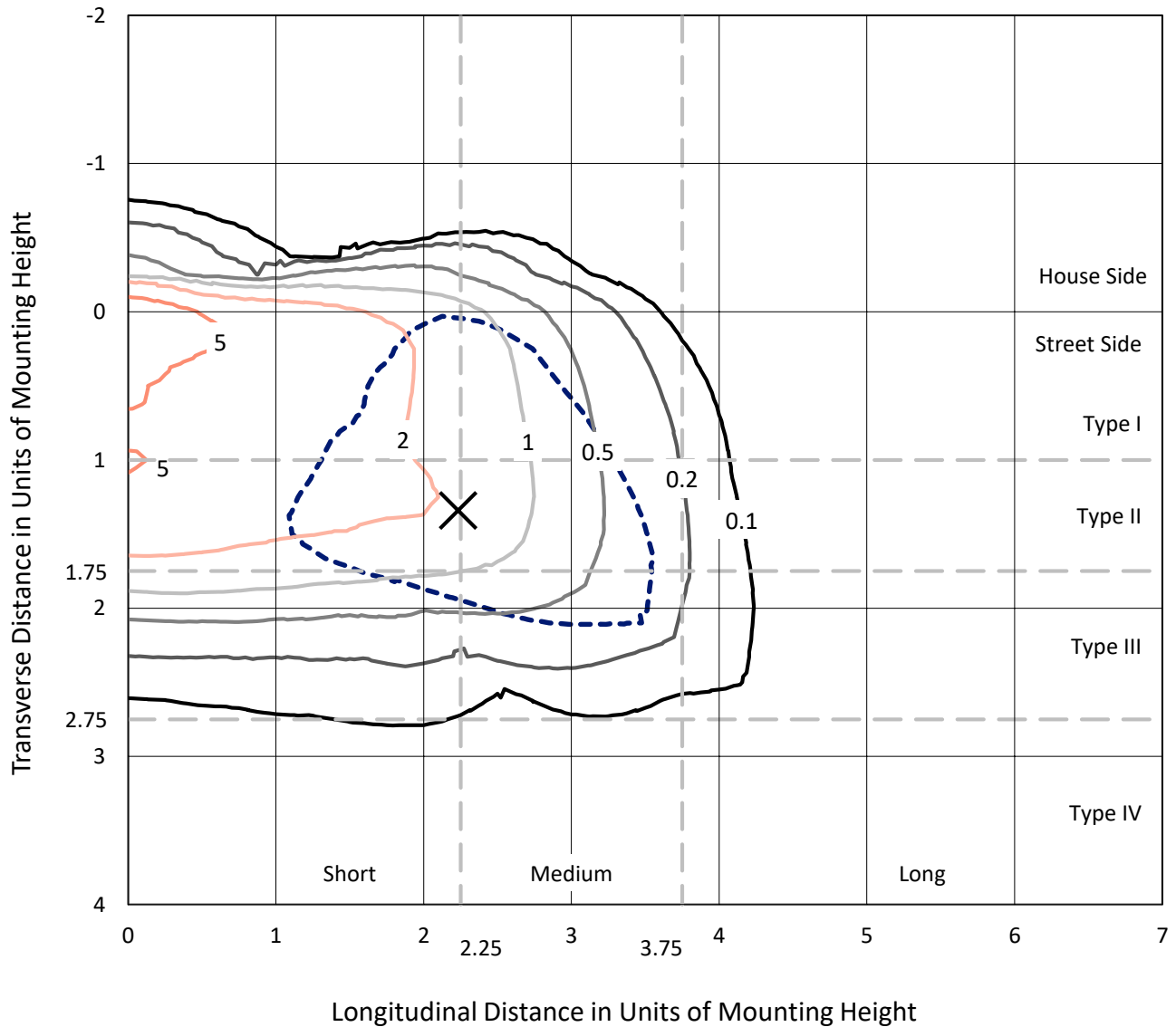


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

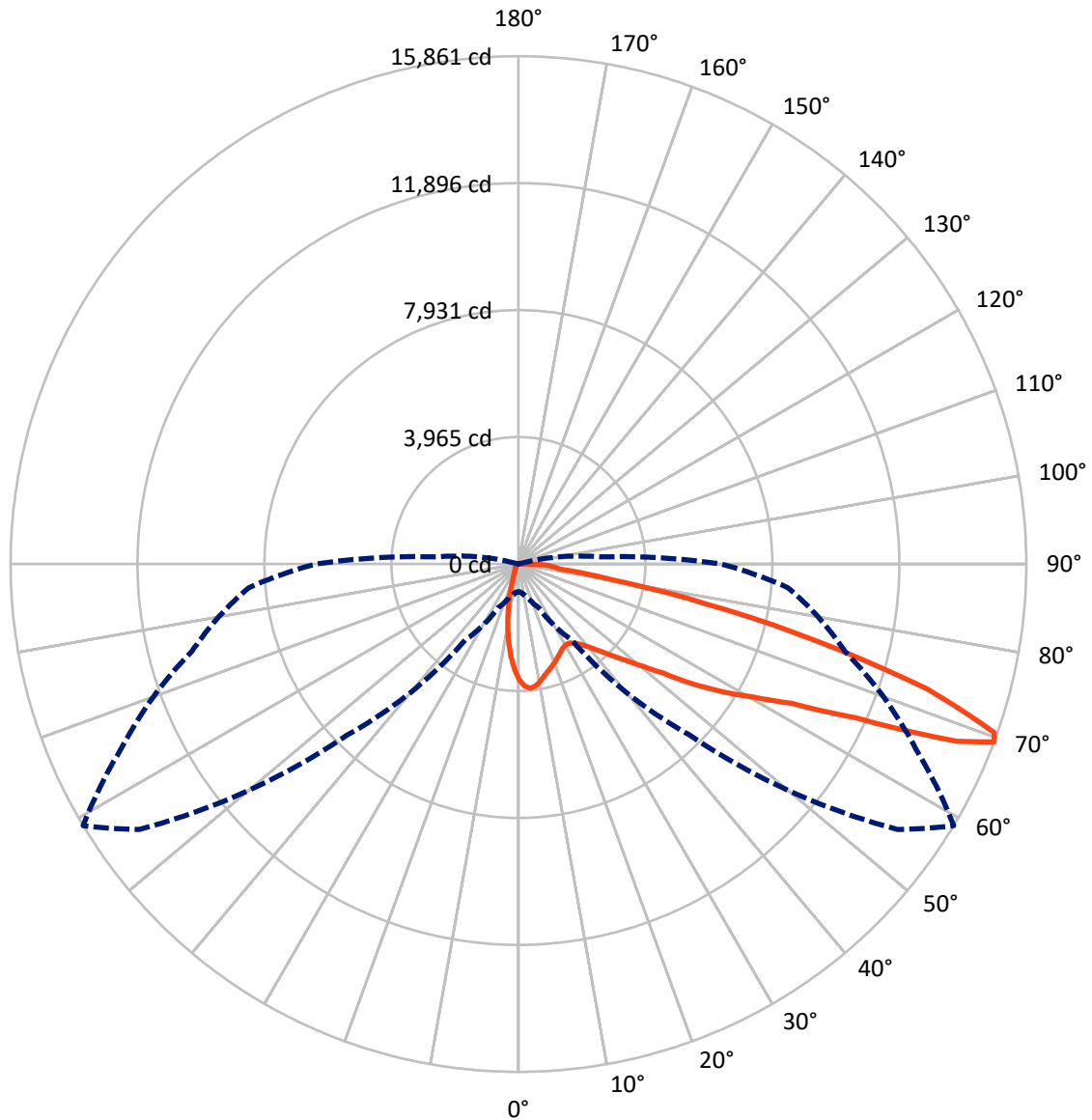


Based on 20 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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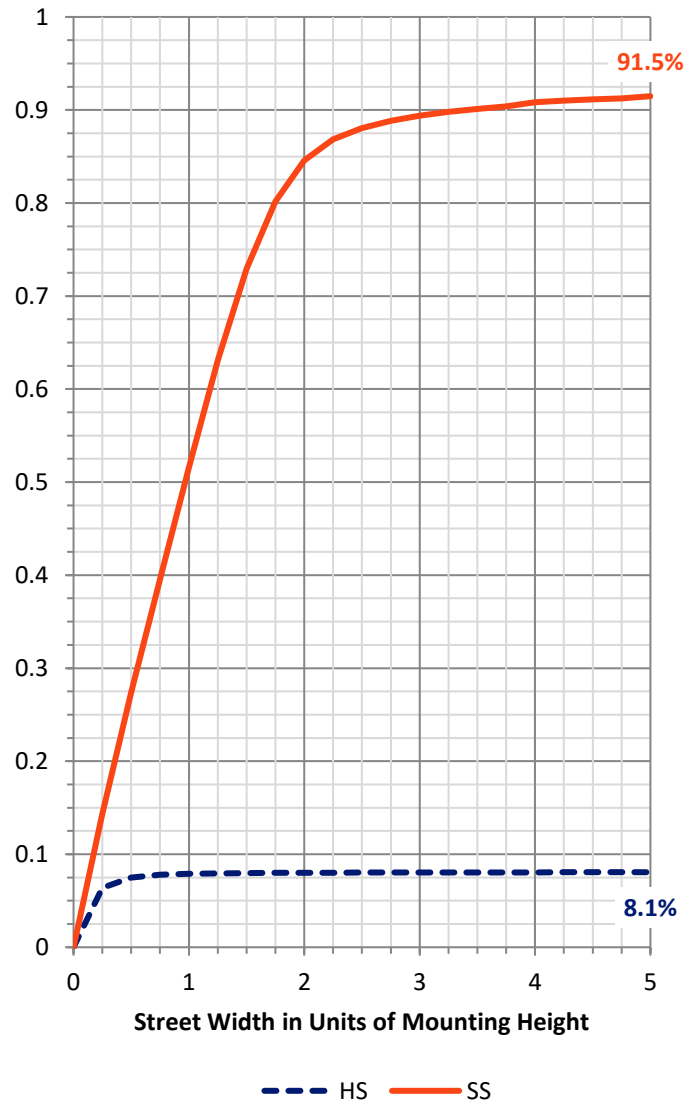
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1131.7	0.0	1131.7
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	12765.3	0.0	12765.3
	% Fixture	91.9	0.0	91.9
Total	Lumens	13897.0	0.0	13897.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.6	2.1
10°-20°	606.7	4.4
20°-30°	816.4	5.9
30°-40°	1185.3	8.5
40°-50°	1973.6	14.2
50°-60°	3078.8	22.2
60°-70°	3809.8	27.4
70°-80°	1930.8	13.9
80°-90°	202.0	1.5
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°	13897.0	100.0
0°-180°	13897.0	100.0



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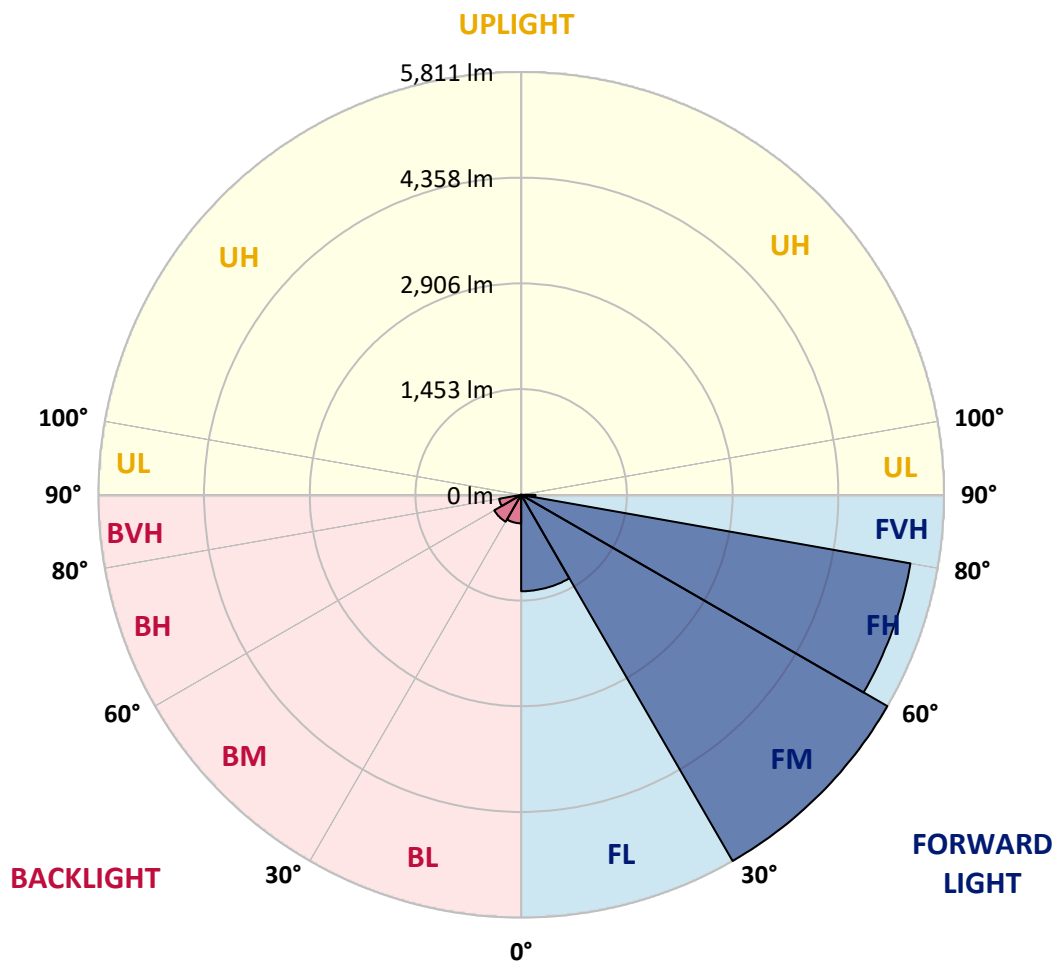
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1324.9	9.5			
FM	(30°-60°)	5811.3	41.8			
FH	(60°-80°)	5433.2	39.1			G3/7500
FVH	(80°-90°)	195.8	1.4			G2/225
BL	(0°-30°)	391.7	2.8	B1/500		
BM	(30°-60°)	426.4	3.1	B1/1000		
BH	(60°-80°)	307.3	2.2	B1/500		G1/500
BVH	(80°-90°)	6.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2
2.5°	3964.5	3963.0	3945.7	3937.8	3923.7	3893.8	3847.4	3823.1	3783.8	3715.4	3623.5
5°	3928.4	3947.2	3957.5	3958.2	3968.5	3957.5	3915.8	3895.4	3841.2	3731.1	3566.1
7.5°	3683.2	3690.3	3719.4	3744.5	3793.2	3839.6	3854.5	3845.9	3813.7	3695.8	3476.5
10°	3420.7	3427.8	3462.4	3495.4	3561.4	3632.9	3708.4	3724.1	3737.4	3645.5	3390.1
12.5°	3194.4	3201.5	3236.9	3280.1	3357.1	3445.1	3562.2	3588.1	3647.1	3597.6	3320.9
15°	2999.5	3002.7	3037.3	3090.7	3182.6	3295.8	3428.6	3470.2	3560.6	3563.8	3260.4
17.5°	2833.7	2841.6	2862.8	2913.9	3014.5	3154.3	3309.1	3368.9	3475.0	3535.5	3201.5
20°	2732.3	2740.2	2739.4	2767.7	2858.1	3007.4	3189.7	3261.2	3390.1	3506.4	3148.8
22.5°	2712.7	2712.7	2692.3	2688.3	2741.8	2866.7	3065.5	3152.8	3313.9	3493.8	3111.9
25°	2782.6	2779.5	2728.4	2686.8	2689.1	2763.8	2945.3	3049.0	3249.4	3502.5	3092.3
27.5°	2930.4	2926.4	2862.0	2782.6	2719.0	2718.2	2854.2	2965.7	3198.3	3543.3	3100.1
30°	3134.7	3133.1	3063.2	2963.4	2847.9	2741.8	2822.7	2924.1	3165.3	3617.2	3118.2
32.5°	3357.9	3355.5	3302.9	3197.6	3051.4	2847.9	2855.7	2940.6	3174.8	3715.4	3162.2
35°	3594.4	3590.5	3567.7	3475.7	3314.7	3043.5	2964.2	3030.2	3234.5	3862.4	3248.6
37.5°	3850.6	3854.5	3871.0	3783.0	3614.1	3317.8	3145.7	3190.5	3354.7	4062.0	3389.3
40°	4228.6	4227.8	4233.3	4117.8	3955.1	3653.3	3399.5	3413.7	3555.9	4326.8	3603.1
42.5°	4914.6	4866.7	4721.3	4485.5	4322.1	4036.8	3719.4	3704.4	3801.9	4654.5	3902.5
45°	5836.4	5734.2	5357.0	4905.2	4696.1	4469.0	4113.1	4065.1	4127.2	5048.2	4271.8
47.5°	6629.3	6523.2	5989.6	5342.1	5093.0	4879.2	4574.3	4487.9	4508.3	5489.1	4740.2
50°	6898.8	6847.0	6381.0	5722.4	5477.3	5395.5	5109.5	5004.2	4975.1	5999.1	5283.2
52.5°	6805.3	6801.4	6491.0	5969.2	5829.3	5929.9	5783.0	5661.2	5554.3	6536.6	5835.6
55°	6655.2	6674.9	6535.8	6185.3	6180.6	6417.9	6704.0	6602.6	6293.0	7120.4	6311.8
57.5°	6241.1	6325.2	6510.6	6593.9	6787.3	7030.1	7470.9	7530.7	7164.5	7567.6	6707.1
60°	5063.9	5248.6	5855.3	6652.9	7569.2	8174.3	8396.6	8447.7	7879.6	7939.3	7240.7
62.5°	3594.4	3783.0	4552.3	5901.6	7580.9	9677.6	9775.8	9575.4	8667.0	8490.2	8160.9
65°	1908.0	2053.4	2682.1	4260.0	6572.7	10026.5	12187.5	11590.3	10056.3	9573.8	9349.9
67.5°	976.0	1020.0	1269.9	2084.8	4518.5	8905.9	14349.3	14769.8	12450.8	10648.8	9292.5
69°	863.6	889.6	1055.4	1507.2	2893.4	7543.2	14454.6	15861.3	13704.2	10559.3	8444.6
70°	836.1	858.9	1009.8	1364.2	2261.6	6326.0	14051.5	15765.4	14024.8	10218.2	7811.2
72.5°	709.6	729.3	899.0	1205.5	1838.1	3140.2	11414.2	13359.2	12585.1	8512.2	5654.1
75°	474.6	539.1	862.8	1130.0	1710.0	1783.8	7525.2	9654.0	8967.9	5741.3	2945.3
77.5°	113.9	122.6	243.6	899.0	1563.8	1570.1	3870.2	6001.4	4895.0	2046.3	696.2
80°	61.3	58.9	68.4	178.4	1456.2	1473.4	1742.2	2913.1	1747.7	339.5	229.5
82.5°	43.2	40.9	44.0	74.7	458.1	1342.2	1260.5	1318.6	724.5	130.4	102.9
85°	15.7	14.9	24.4	67.6	143.8	771.7	1295.1	1087.6	587.0	59.7	75.4
87.5°	5.5	4.7	9.4	36.9	44.0	328.5	799.2	822.0	231.0	36.1	35.4
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°	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2
2.5°	3585.0	3536.3	3446.7	3354.7	3269.9	3167.7	3116.6	3066.3	3045.1	3037.3	3000.3
5°	3481.2	3398.7	3208.6	3017.6	2841.6	2654.5	2531.2	2432.2	2374.0	2345.7	2300.9
7.5°	3348.4	3213.3	2924.9	2630.2	2355.9	2085.6	1885.2	1731.2	1625.1	1574.0	1527.7
10°	3219.6	3039.6	2629.4	2227.8	1855.4	1497.0	1220.4	1020.0	891.9	833.0	795.3
12.5°	3104.0	2870.7	2344.1	1835.7	1368.1	948.5	667.2	507.6	428.3	400.8	387.4
15°	3001.1	2715.1	2074.6	1463.2	926.5	542.2	364.6	310.4	297.8	297.8	296.3
17.5°	2903.7	2562.6	1814.5	1113.5	581.5	331.6	277.4	270.3	270.3	273.5	273.5
20°	2810.1	2417.2	1563.0	799.2	366.2	263.3	250.7	249.1	250.7	254.6	254.6
22.5°	2730.0	2285.2	1328.1	548.5	271.9	237.3	231.0	228.7	229.5	231.8	233.4
25°	2670.3	2173.6	1106.5	371.7	234.2	216.1	209.0	205.1	202.0	202.0	203.5
27.5°	2632.5	2079.3	891.9	270.3	210.6	196.5	185.5	179.2	172.1	168.2	169.7
30°	2605.0	1989.7	690.7	220.8	188.6	174.5	160.3	150.1	139.9	135.2	136.7
32.5°	2594.8	1917.4	516.3	194.9	169.0	153.2	135.9	122.6	111.6	107.7	108.4
35°	2622.3	1860.1	378.0	176.0	153.2	133.6	113.9	99.0	90.4	88.0	88.8
37.5°	2694.6	1829.4	282.9	160.3	139.1	117.1	95.1	80.9	75.4	75.4	76.2
40°	2831.4	1828.6	227.1	149.3	126.5	101.4	78.6	68.4	65.2	66.8	67.6
42.5°	3031.0	1870.3	198.0	139.1	115.5	86.4	65.2	58.2	57.4	58.9	59.7
45°	3303.6	1946.5	182.3	130.4	103.7	72.3	55.0	50.3	50.3	52.7	53.4
47.5°	3637.6	2058.1	169.0	121.8	91.9	60.5	47.2	44.0	44.8	47.2	47.9
50°	4040.0	2198.8	155.6	112.4	83.3	50.3	40.9	38.5	39.3	42.4	43.2
52.5°	4498.1	2388.2	144.6	103.7	72.3	41.6	34.6	33.0	34.6	37.7	38.5
55°	4891.0	2557.9	131.2	96.7	58.2	34.6	28.3	28.3	29.9	33.8	34.6
57.5°	5269.0	2735.5	119.4	83.3	45.6	27.5	23.6	24.4	26.7	30.6	31.4
60°	5823.8	3036.5	105.3	69.9	34.6	22.0	19.6	20.4	23.6	27.5	28.3
62.5°	6766.0	3494.6	91.2	58.2	26.7	17.3	15.7	17.3	21.2	25.9	26.7
65°	7616.3	3680.8	74.7	48.7	20.4	13.4	13.4	15.7	20.4	25.1	25.9
67.5°	7142.5	3098.5	58.2	38.5	15.7	10.2	11.0	14.9	19.6	25.1	25.9
69°	6316.5	2533.5	49.5	30.6	13.4	9.4	10.2	14.9	19.6	24.4	25.1
70°	5672.9	2139.0	44.0	25.9	11.8	9.4	10.2	14.1	19.6	24.4	25.1
72.5°	3799.5	1155.2	35.4	18.9	11.0	8.6	8.6	14.1	18.9	23.6	24.4
75°	1633.0	319.0	28.3	13.4	9.4	7.9	7.9	13.4	18.1	22.8	24.4
77.5°	298.6	80.9	22.8	11.8	9.4	7.9	7.1	12.6	17.3	22.0	22.8
80°	118.7	40.1	18.1	10.2	8.6	7.1	6.3	11.8	16.5	21.2	22.0
82.5°	71.5	22.8	14.9	9.4	8.6	6.3	5.5	10.2	15.7	20.4	21.2
85°	58.2	15.7	11.8	9.4	7.9	6.3	4.7	9.4	14.1	19.6	20.4
87.5°	28.3	11.0	11.0	8.6	7.9	6.3	4.7	8.6	13.4	18.9	19.6
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)