

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: ITL54981_400MP

Luminaire Tested: **GSM-XX-400-MP-XX-SL-FG-XX-X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: ITL54981_400MP
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GSM-XX-400-MP-XX-SL-FG-XX-X
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-SPILL LIGHT ELIMINATOR
Light Source: 400 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 40000 (1 lamp)
Luminaire Lumens: 23451.2 lumens
Efficiency: 58.6%
Efficacy: 51.9 lumens/watt
Luminous Opening: Rectangular (W 0.99' x L: 1.01' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G4

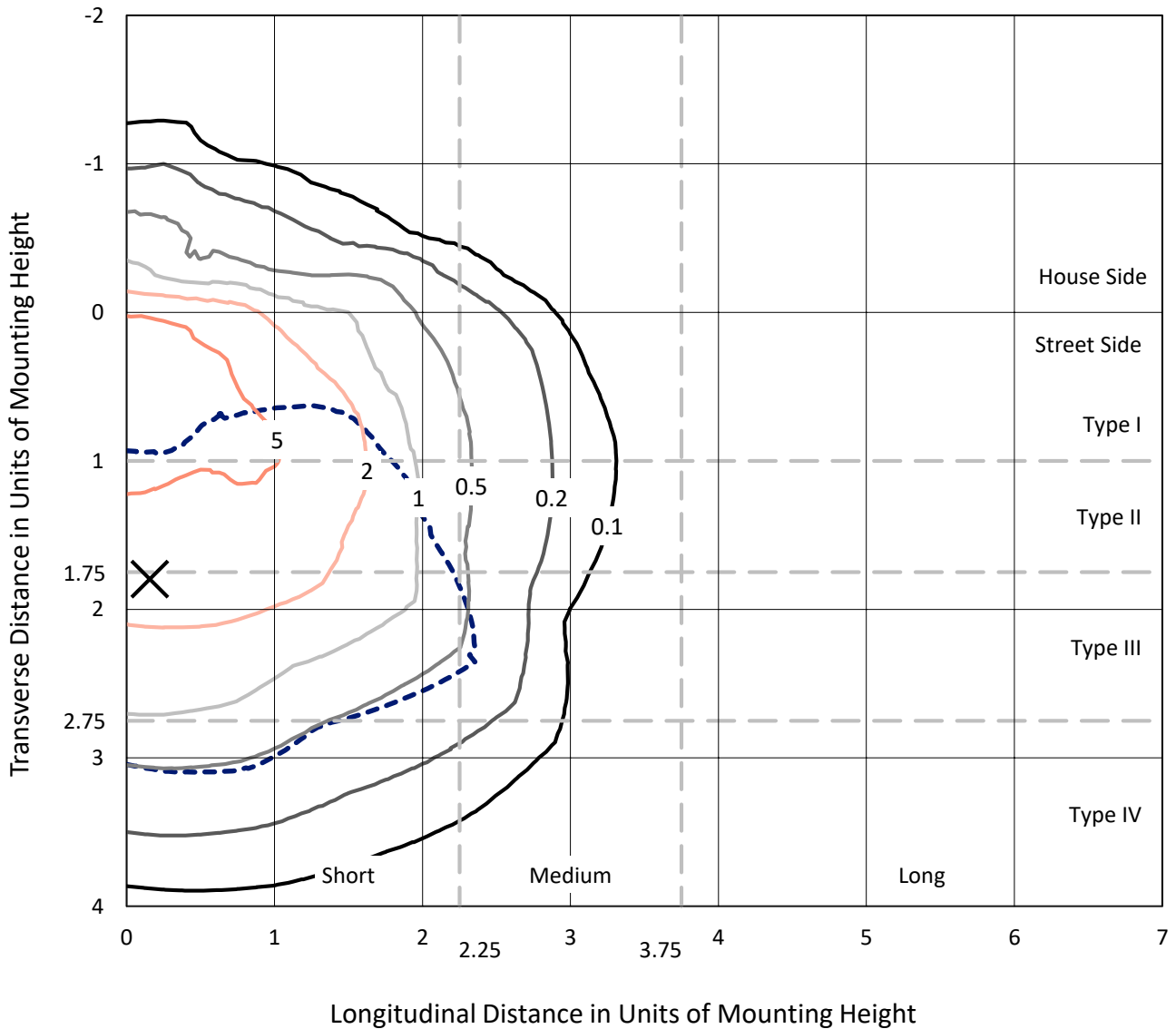
Input Watts (W): 452
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

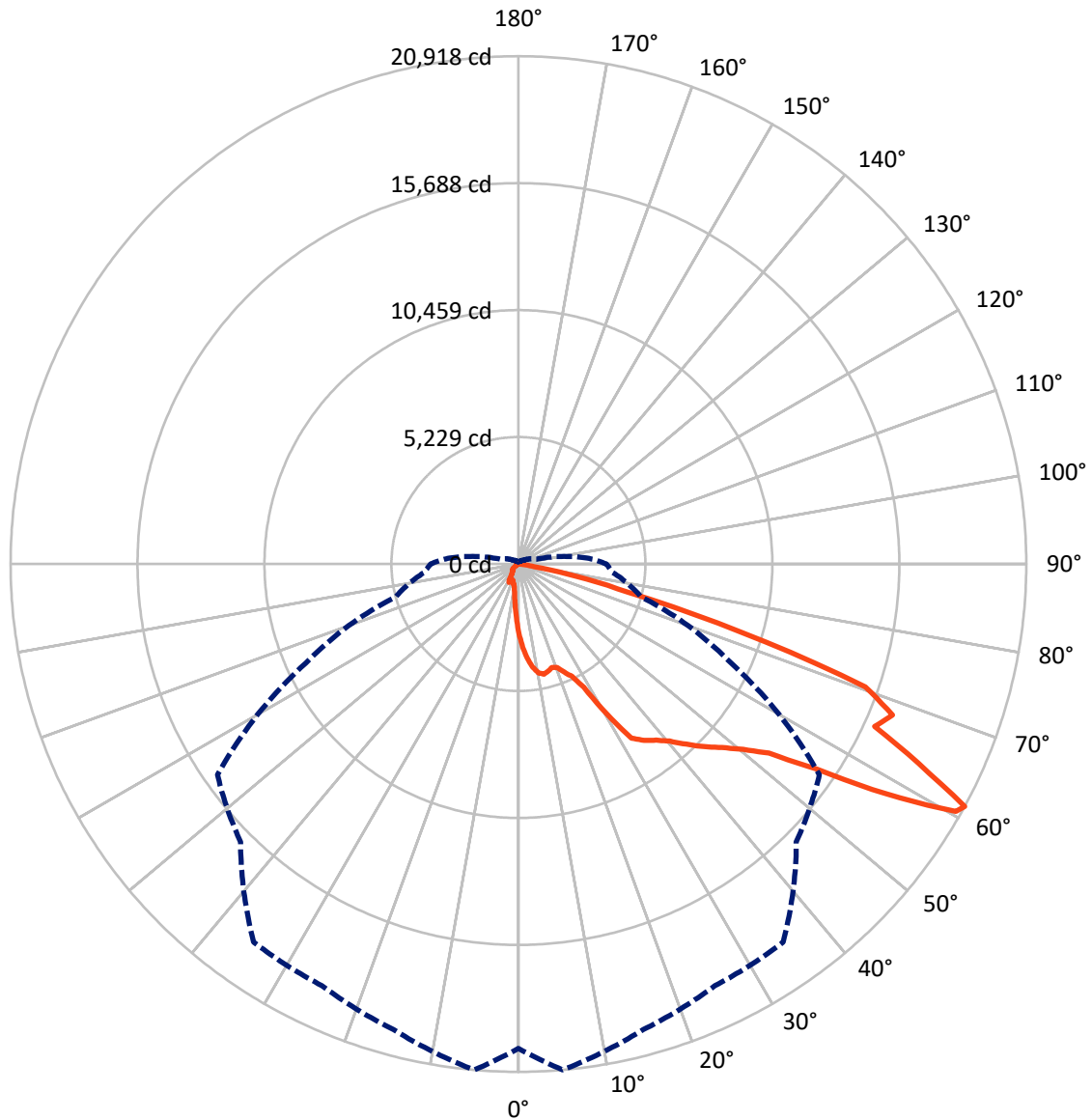
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 61-Deg Vertical

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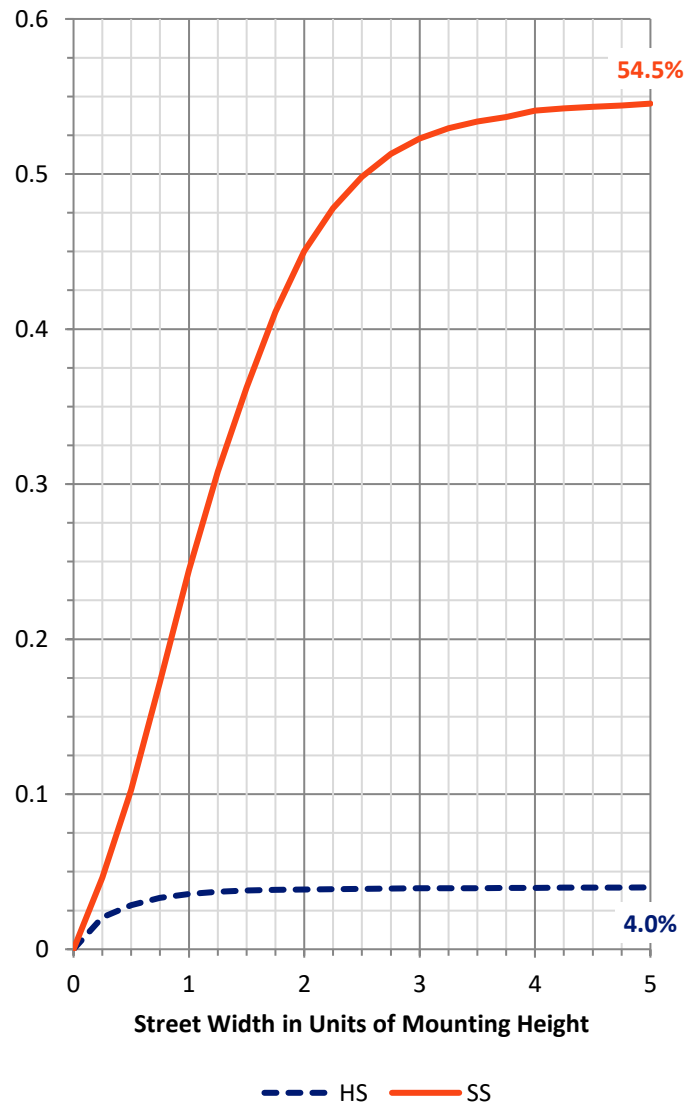
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1613.1	0.0	1613.1
	% Lamp	4.0	0.0	4.0
Street Side	Lumens	21838.2	0.0	21838.2
	% Lamp	54.6	0.0	54.6
Total	Lumens	23451.2	0.0	23451.2
	% Lamp	58.6	0.0	58.6

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	272.3	1.2	0.7
10°-20°	771.4	3.3	1.9
20°-30°	1311.5	5.6	3.3
30°-40°	2400.9	10.2	6.0
40°-50°	3596.5	15.3	9.0
50°-60°	5739.0	24.5	14.3
60°-70°	6612.1	28.2	16.5
70°-80°	2621.0	11.2	6.6
80°-90°	126.5	0.5	0.3
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	23451.2	100.0	58.6
0°-180°	23451.2	100.0	58.6

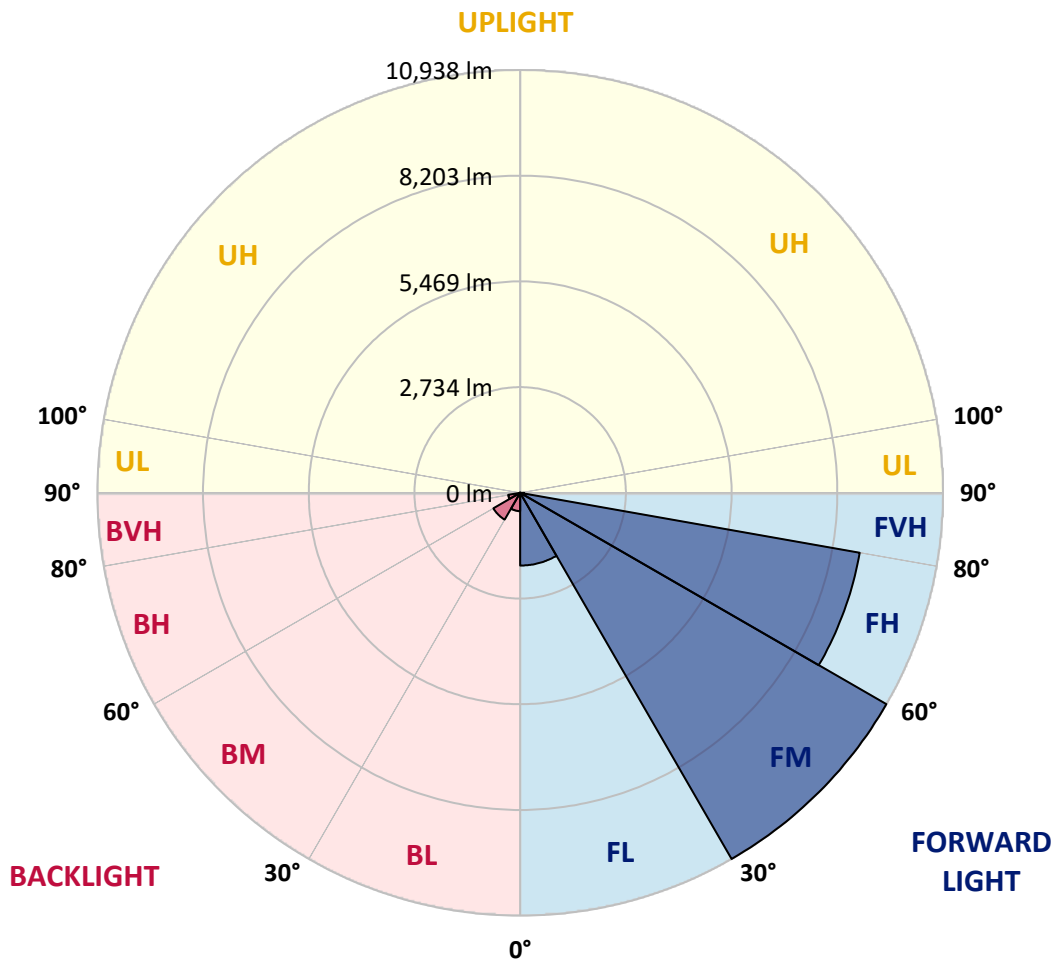


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1881.8	4.7			
FM (30°-60°)	10937.6	27.3			
FH (60°-80°)	8918.9	22.3			G4/12000
FVH (80°-90°)	99.9	0.2			G1/100
BL (0°-30°)	473.4	1.2	B1/500		
BM (30°-60°)	798.9	2.0	B1/1000		
BH (60°-80°)	314.2	0.8	B1/500		G1/500
BVH (80°-90°)	26.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	16548.8	41.4			

BUG Rating: B1-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2871.1	2871.1	2871.1	2871.1	2871.1	2871.1	2871.1	2871.1	2871.1	2871.1	2871.1
2.5°	3494.4	3432.2	3432.2	3383.3	3345.6	3321.1	3258.9	3184.4	3073.3	2998.9	2912.2
5°	3965.6	3915.6	3903.3	3866.7	3804.4	3717.8	3618.9	3457.8	3296.7	3035.6	2936.7
7.5°	4312.2	4300.0	4275.6	4188.9	4114.4	4015.6	3866.7	3680.0	3420.0	3097.8	2924.4
10°	4585.6	4560.0	4511.1	4386.7	4263.3	4163.3	4052.2	3915.6	3568.9	3160.0	2924.4
12.5°	4634.4	4660.0	4622.2	4560.0	4473.3	4287.8	4188.9	4040.0	3693.3	3196.7	2900.0
15°	4560.0	4585.6	4610.0	4622.2	4597.8	4511.1	4275.6	4126.7	3780.0	3147.8	2787.8
17.5°	4461.1	4473.3	4523.3	4585.6	4660.0	4610.0	4498.9	4225.6	3854.4	3123.3	2714.4
20°	4560.0	4547.8	4622.2	4646.7	4696.7	4708.9	4684.4	4436.7	4002.2	3196.7	2751.1
22.5°	4857.8	4833.3	4932.2	4907.8	4721.1	4733.3	4807.8	4597.8	4138.9	3296.7	2801.1
25°	5155.6	5130.0	5192.2	5043.3	4708.9	4746.7	4968.9	4646.7	4114.4	3296.7	2801.1
27.5°	5848.9	5750.0	5601.1	5266.7	4845.6	4994.4	5391.1	4634.4	4015.6	3222.2	2738.9
30°	7410.0	7150.0	6728.9	5911.1	5341.1	5514.4	6146.7	4920.0	4088.9	3308.9	2787.8
32.5°	8698.9	8551.1	8142.2	7187.8	6257.8	6221.1	6976.7	5415.6	4374.4	3532.2	2936.7
35°	8873.3	8922.2	8785.6	8241.1	7522.2	7212.2	7571.1	5750.0	4610.0	3754.4	3073.3
37.5°	9318.9	9207.8	9058.9	8860.0	8811.1	8265.6	7868.9	5786.7	4696.7	3903.3	3147.8
40°	9691.1	9591.1	9443.3	9268.9	9665.6	9480.0	7906.7	5762.2	4622.2	3903.3	3123.3
42.5°	10211.1	10148.9	9951.1	9951.1	10410.0	10261.1	7868.9	5836.7	4498.9	3730.0	2974.4
45°	10781.1	10731.1	10446.7	10620.0	11190.0	10583.3	8451.1	6158.9	4646.7	3631.1	2813.3
47.5°	11375.6	11288.9	10930.0	10992.2	11760.0	11463.3	9715.6	6642.2	5006.7	3532.2	2738.9
50°	12045.6	11995.6	11623.3	11264.4	12925.6	13618.9	11190.0	7534.4	5303.3	3482.2	2763.3
52.5°	12962.2	12925.6	12590.0	12057.8	14833.3	15663.3	12416.7	8773.3	5403.3	3593.3	2936.7
55°	15143.3	14907.8	14065.6	13643.3	16803.3	16927.8	14164.4	9901.1	5477.8	3927.8	3395.6
57.5°	18017.8	17870.0	16531.1	15490.0	17757.8	16704.4	16011.1	10335.6	5341.1	4114.4	3903.3
60°	20198.9	20694.4	19356.7	18228.9	18637.8	16258.9	15750.0	10235.6	5142.2	3953.3	3816.7
61°	19951.1	20917.8	19852.2	19158.9	19010.0	16184.4	15131.1	9665.6	5230.0	3878.9	3618.9
62.5°	17250.0	18997.8	19641.1	19976.7	19604.4	16023.3	14176.7	8674.4	5464.4	3841.1	3296.7
65°	15266.7	16122.2	17286.7	18700.0	19616.7	15403.3	12912.2	7732.2	5291.1	3866.7	2998.9
67.5°	16828.9	16617.8	16853.3	15477.8	17721.1	16891.1	10607.8	7113.3	5081.1	3655.6	2738.9
70°	14672.2	15155.6	15316.7	13185.6	14374.4	15948.9	8128.9	5836.7	4386.7	3123.3	2156.7
72.5°	8650.0	9530.0	10496.7	9516.7	10533.3	11846.7	6134.4	4547.8	3258.9	1871.1	1190.0
75°	4436.7	4672.2	5155.6	5204.4	6245.6	6952.2	2540.0	2688.9	2354.4	1251.1	743.3
77.5°	2032.2	2428.9	2974.4	3432.2	3321.1	2453.3	1152.2	1140.0	1041.1	594.4	433.3
80°	594.4	656.7	842.2	1077.8	1028.9	743.3	620.0	495.6	533.3	310.0	260.0
82.5°	197.8	197.8	260.0	322.2	334.4	260.0	185.6	197.8	247.8	185.6	161.1
85°	74.4	74.4	98.9	111.1	111.1	98.9	98.9	98.9	111.1	111.1	86.7
87.5°	0.0	0.0	24.4	36.7	50.0	50.0	50.0	50.0	62.2	62.2	62.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2871.1	2871.1	2871.1	2871.1	2871.1	2871.1	2871.1	2871.1	2871.1	2871.1
2.5°	2850.0	2751.1	2652.2	2527.8	2428.9	2378.9	2292.2	2267.8	2217.8	2280.0
5°	2813.3	2614.4	2416.7	2231.1	2044.4	1921.1	1796.7	1710.0	1685.6	1734.4
7.5°	2763.3	2441.1	2143.3	1871.1	1647.8	1500.0	1375.6	1301.1	1251.1	1288.9
10°	2701.1	2267.8	1871.1	1561.1	1301.1	1152.2	1065.6	1016.7	991.1	1016.7
12.5°	2614.4	2082.2	1635.6	1264.4	1028.9	916.7	880.0	880.0	880.0	892.2
15°	2441.1	1821.1	1351.1	1016.7	830.0	793.3	805.6	817.8	830.0	842.2
17.5°	2317.8	1623.3	1127.8	842.2	718.9	731.1	755.6	767.8	755.6	767.8
20°	2280.0	1474.4	954.4	718.9	644.4	656.7	681.1	694.4	694.4	718.9
22.5°	2280.0	1363.3	805.6	620.0	582.2	582.2	606.7	656.7	694.4	694.4
25°	2280.0	1288.9	681.1	545.6	520.0	533.3	606.7	681.1	731.1	718.9
27.5°	2217.8	1214.4	632.2	495.6	471.1	545.6	656.7	755.6	855.6	842.2
30°	2205.6	1152.2	632.2	483.3	458.9	557.8	743.3	793.3	781.1	817.8
32.5°	2217.8	1090.0	656.7	495.6	471.1	594.4	656.7	594.4	545.6	570.0
35°	2243.3	1077.8	694.4	557.8	507.8	520.0	533.3	483.3	446.7	446.7
37.5°	2181.1	1041.1	706.7	594.4	507.8	483.3	495.6	495.6	433.3	421.1
40°	2082.2	1016.7	681.1	570.0	495.6	458.9	507.8	458.9	372.2	396.7
42.5°	1970.0	954.4	620.0	557.8	471.1	396.7	446.7	421.1	334.4	346.7
45°	1883.3	916.7	582.2	533.3	408.9	334.4	358.9	384.4	322.2	322.2
47.5°	1883.3	916.7	582.2	495.6	396.7	297.8	297.8	358.9	297.8	297.8
50°	1945.6	916.7	606.7	471.1	358.9	272.2	260.0	322.2	297.8	297.8
52.5°	2094.4	892.2	594.4	458.9	346.7	235.6	247.8	334.4	297.8	272.2
55°	2491.1	855.6	545.6	421.1	310.0	235.6	223.3	173.3	111.1	98.9
57.5°	2962.2	805.6	557.8	358.9	272.2	197.8	124.4	98.9	86.7	98.9
60°	3023.3	781.1	533.3	297.8	223.3	148.9	111.1	98.9	86.7	98.9
61°	2850.0	755.6	495.6	272.2	211.1	136.7	124.4	98.9	98.9	98.9
62.5°	2465.6	731.1	446.7	235.6	161.1	136.7	124.4	98.9	86.7	74.4
65°	1895.6	594.4	358.9	161.1	136.7	136.7	111.1	111.1	86.7	98.9
67.5°	1536.7	495.6	272.2	136.7	124.4	124.4	124.4	111.1	98.9	98.9
70°	1127.8	408.9	211.1	124.4	111.1	111.1	111.1	111.1	98.9	98.9
72.5°	718.9	322.2	185.6	111.1	111.1	111.1	111.1	98.9	86.7	98.9
75°	483.3	272.2	136.7	98.9	98.9	98.9	111.1	98.9	86.7	74.4
77.5°	346.7	197.8	111.1	86.7	86.7	86.7	86.7	86.7	62.2	74.4
80°	223.3	124.4	86.7	74.4	62.2	62.2	86.7	62.2	62.2	50.0
82.5°	124.4	86.7	62.2	62.2	62.2	62.2	50.0	62.2	36.7	50.0
85°	86.7	62.2	50.0	50.0	36.7	36.7	36.7	36.7	12.2	24.4
87.5°	50.0	50.0	50.0	50.0	36.7	36.7	12.2	12.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)