

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: 769010_350MP

Luminaire Tested: **GSM-XX-350-MP-XX-2F-FG-XX-X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 769010_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GSM-XX-350-MP-XX-2F-FG-XX-X
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-TYPE II DISTRIBUTION
Light Source: 350 WATT PULSE-START CLEAR ED-37 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 24845.4 lumens
Efficiency: 75.3%
Efficacy: 62.6 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B4 - U0 - G4

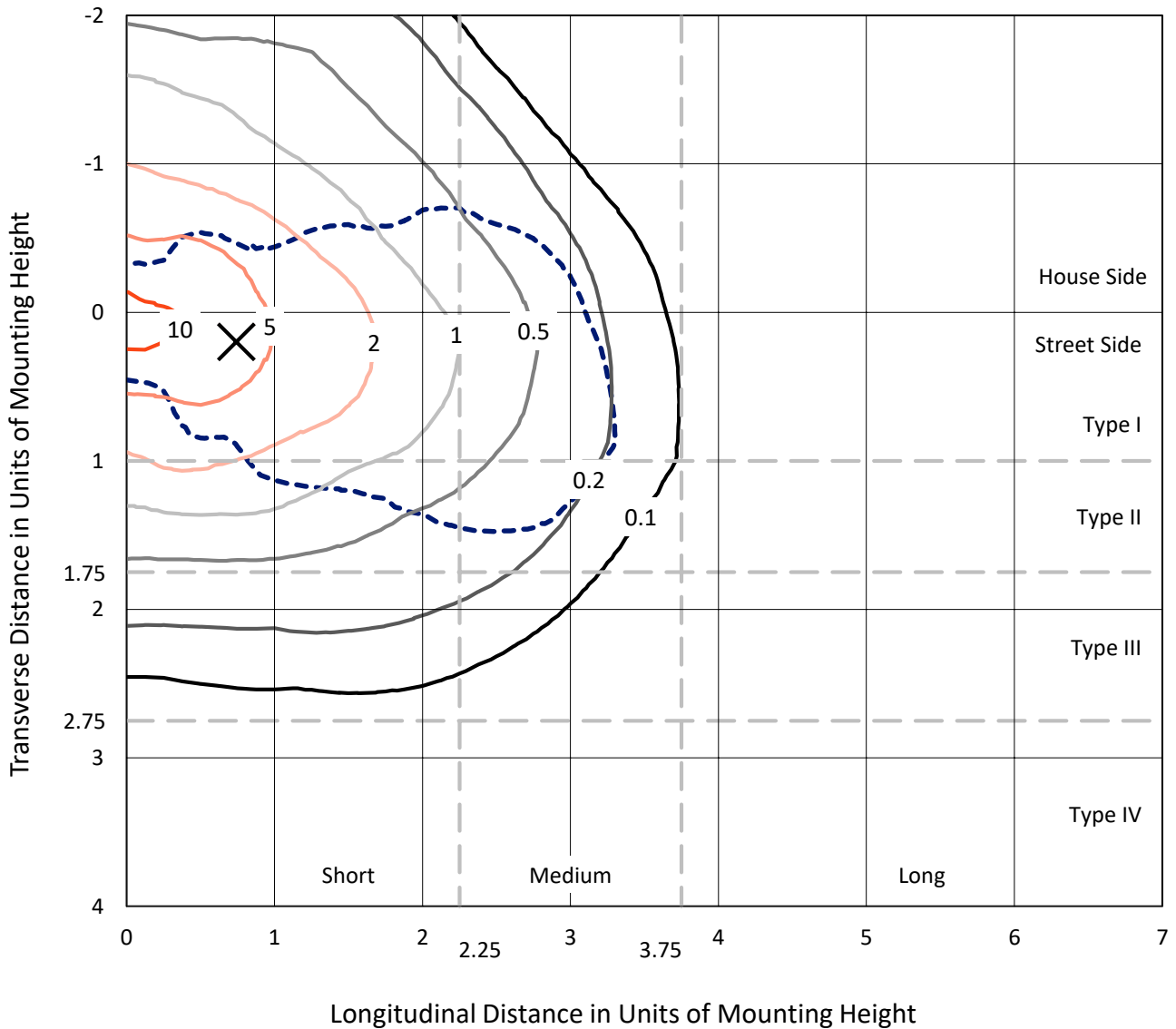
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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 CATALOG NUMBER: GSM-XX-350-MP-XX-2F-FG-XX-X

Iso-Footcandle Lines of Horizontal Illumination

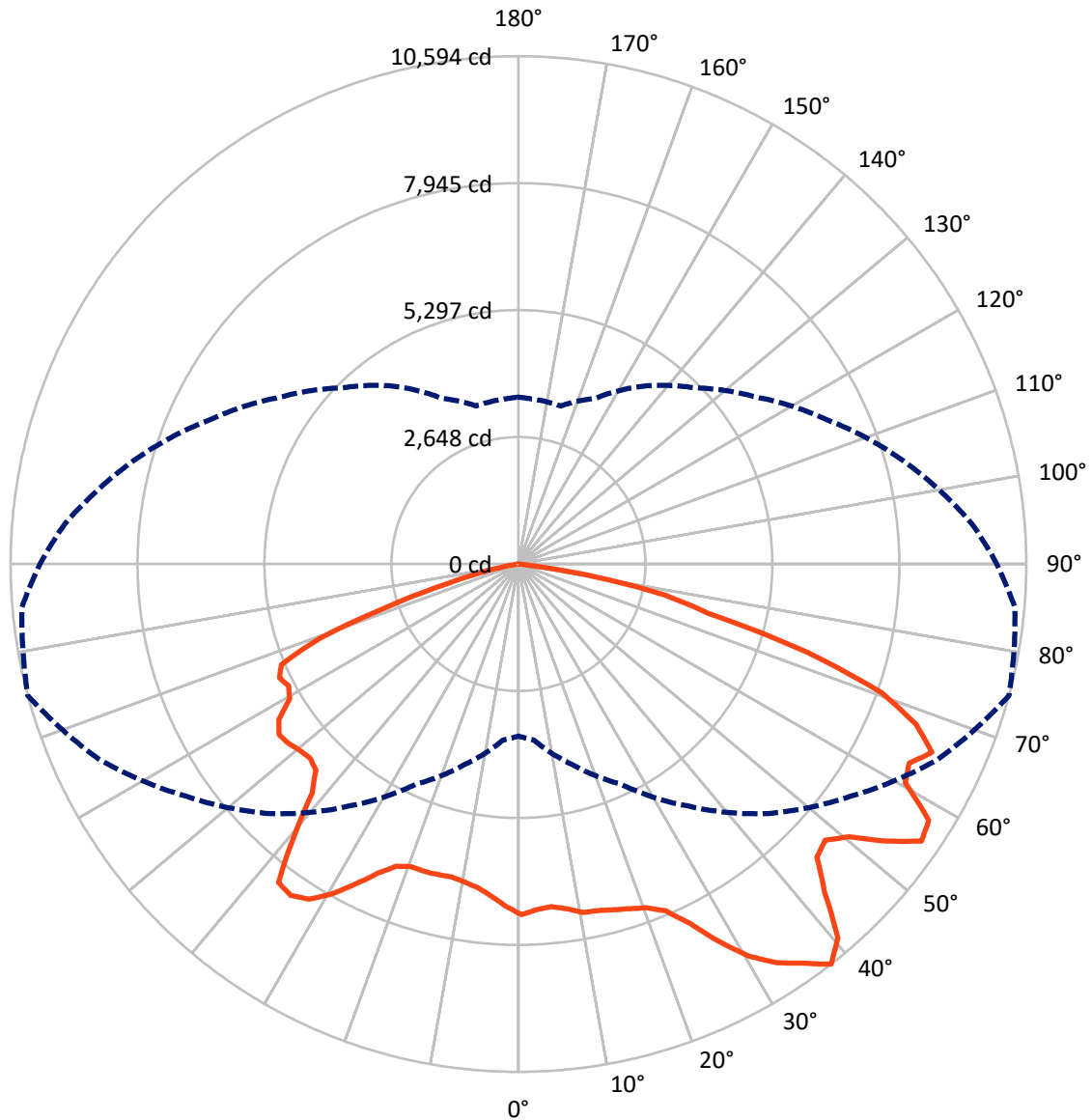
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: 769010_350MP
CATALOG NUMBER: GSM-XX-350-MP-XX-2F-FG-XX-X

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 37.5-Deg Vertical

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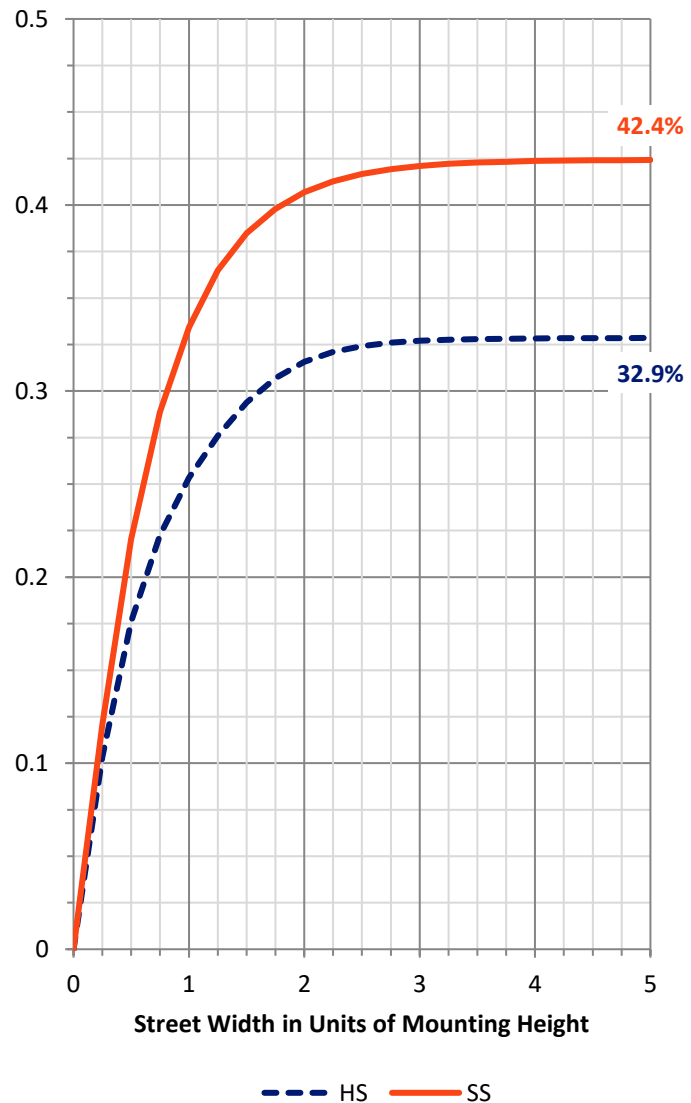
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10889.0	0.0	10889.0
	% Lamp	33.0	0.0	33.0
Street Side	Lumens	13956.4	0.0	13956.4
	% Lamp	42.3	0.0	42.3
Total	Lumens	24845.4	0.0	24845.4
	% Lamp	75.3	0.0	75.3

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	672.6	2.7	2.0
10°-20°	1868.8	7.5	5.7
20°-30°	2937.0	11.8	8.9
30°-40°	4073.0	16.4	12.3
40°-50°	4224.2	17.0	12.8
50°-60°	4764.1	19.2	14.4
60°-70°	4488.5	18.1	13.6
70°-80°	1755.4	7.1	5.3
80°-90°	61.7	0.2	0.2
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°	24845.4	100.0	75.3
0°-180°	24845.4	100.0	75.3



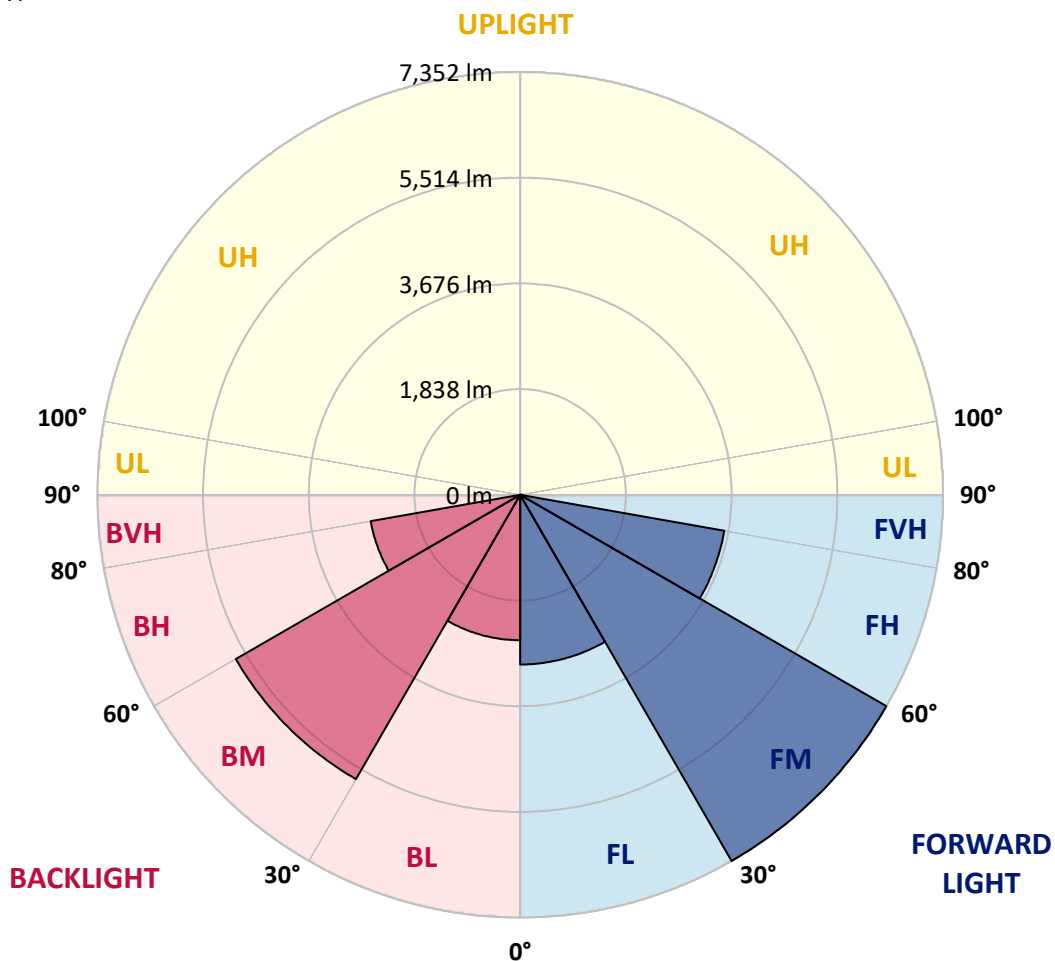
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CATALOG NUMBER: GSM-XX-350-MP-XX-2F-FG-XX-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2950.5	8.9			
FM	(30°-60°)	7351.7	22.3			
FH	(60°-80°)	3605.0	10.9			G2/5000
FVH	(80°-90°)	49.2	0.1			G1/100
BL	(0°-30°)	2527.9	7.7	B4/5000		
BM	(30°-60°)	5709.7	17.3	B4/8500		
BH	(60°-80°)	2638.9	8.0	B4/5000		G4/5000
BVH	(80°-90°)	12.5	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		8154.6	24.7			

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7311.3	7311.3	7311.3	7311.3	7311.3	7311.3	7311.3	7311.3	7311.3	7311.3	7311.3
2.5°	7452.5	7462.6	7447.0	7412.2	7346.2	7311.3	7285.7	7245.3	7220.6	7184.8	7180.2
5°	7583.6	7613.8	7568.0	7533.2	7472.7	7392.0	7315.9	7255.4	7180.2	7099.6	7063.8
7.5°	7492.8	7507.5	7513.0	7507.5	7513.0	7487.3	7436.9	7356.2	7260.9	7124.3	7063.8
10°	7281.1	7305.8	7336.1	7422.2	7482.8	7533.2	7543.2	7502.9	7392.0	7190.3	7084.0
12.5°	7018.9	7049.2	7109.7	7260.9	7371.8	7492.8	7553.3	7543.2	7416.8	7225.2	7124.3
15°	6716.4	6751.2	6877.8	7049.2	7215.1	7351.7	7492.8	7563.4	7482.8	7311.3	7190.3
17.5°	6383.7	6424.0	6589.9	6797.1	6963.0	7194.9	7422.2	7547.8	7557.9	7406.7	7281.1
20°	5970.2	6005.1	6196.7	6448.8	6670.6	6978.6	7321.4	7583.6	7654.2	7537.8	7392.0
22.5°	5526.6	5546.8	5773.2	6075.7	6383.7	6776.9	7235.2	7668.8	7855.8	7760.5	7593.7
25°	5113.2	5153.5	5359.8	5702.6	6131.6	6666.0	7305.8	7926.4	8299.5	8198.7	8012.6
27.5°	4730.0	4754.8	4996.8	5400.1	5929.9	6686.2	7583.6	8430.6	8920.1	8833.9	8561.7
30°	4407.3	4442.2	4694.2	5178.2	5833.7	6837.4	7956.7	8944.8	9494.8	9404.1	9111.7
32.5°	4094.8	4145.2	4532.9	5097.6	5899.7	7084.0	8289.4	9293.2	9918.3	9872.5	9565.4
35°	3821.6	3903.2	4397.2	5082.9	6045.4	7351.7	8440.7	9469.2	10225.4	10230.9	9892.7
37.5°	3589.7	3685.9	4331.2	5067.3	6161.8	7361.8	8450.8	9646.1	10593.9	10396.8	9978.8
40°	3398.1	3509.0	4266.2	5113.2	6071.1	7180.2	8299.5	9620.4	10255.7	9676.3	9182.2
42.5°	3216.6	3377.9	4260.7	5113.2	5738.3	6676.1	7775.2	8950.3	9368.3	8763.3	8214.2
45°	3115.8	3267.0	4200.2	4966.5	5254.3	6015.2	6978.6	8097.8	8728.5	8309.6	7810.9
47.5°	2994.8	3141.4	4079.2	4740.1	4956.4	5591.7	6418.5	7628.5	8607.5	8309.6	7795.3
50°	2893.9	2990.2	3827.1	4467.8	4931.7	5511.0	6232.4	7674.3	8940.2	8783.5	8188.6
52.5°	2772.9	2813.2	3509.0	4165.3	4982.1	5581.6	6303.0	7986.9	9600.2	9474.7	8692.8
55°	2561.2	2586.8	3135.9	3841.8	4906.0	5617.3	6484.5	8365.5	10200.7	10114.5	9262.9
57.5°	2359.5	2379.7	2717.9	3443.9	4619.1	5410.2	6424.0	8460.8	10094.3	9918.3	9045.7
60°	2198.2	2173.4	2405.3	3060.8	4125.0	5016.9	6035.3	8264.7	9267.5	9126.3	8385.7
62.5°	1956.2	1911.2	2112.9	2677.6	3625.4	4583.3	5551.3	8178.5	9146.5	9156.6	8244.5
65°	1532.7	1518.0	1794.8	2274.2	3252.3	4331.2	5304.8	7997.0	9479.2	9428.8	8284.8
67.5°	1199.9	1210.0	1522.6	2002.0	2994.8	4099.3	5082.9	7220.6	8950.3	9620.4	8501.2
70°	877.2	917.6	1255.8	1659.2	2601.5	3680.4	4815.2	6353.4	8042.8	8395.8	7447.0
72.5°	574.8	600.4	826.8	1280.6	2112.9	3125.8	4306.5	5440.4	6287.4	5435.8	4835.4
75°	352.9	358.4	433.6	655.4	1230.2	1915.8	2687.7	3353.2	4074.6	3595.2	3141.4
77.5°	191.6	181.5	136.6	171.4	318.1	671.0	1290.7	2223.8	3125.8	2566.7	2143.2
80°	70.6	60.5	40.3	50.4	116.4	322.7	660.9	1265.9	1659.2	1215.5	973.5
82.5°	0.0	0.0	0.0	0.0	0.0	45.8	90.8	151.2	197.1	126.5	90.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7311.3	7311.3	7311.3	7311.3	7311.3	7311.3	7311.3	7311.3	7311.3	7311.3
2.5°	7174.8	7150.0	7114.2	7119.8	7129.8	7114.2	7114.2	7114.2	7104.2	7099.6
5°	7023.5	6958.4	6892.4	6852.1	6852.1	6862.2	6892.4	6887.8	6882.3	6877.8
7.5°	6973.1	6811.8	6640.3	6529.4	6444.2	6448.8	6519.3	6519.3	6484.5	6464.3
10°	6973.1	6726.5	6489.1	6272.8	6075.7	6030.8	6121.5	6146.2	6116.0	6111.4
12.5°	6978.6	6676.1	6383.7	6091.2	5859.3	5698.0	5833.7	5894.2	5869.4	5849.2
15°	7033.6	6690.8	6343.3	6010.6	5692.5	5490.8	5577.0	5601.8	5536.7	5496.3
17.5°	7099.6	6706.3	6307.6	5909.8	5607.2	5345.1	5365.2	5369.8	5284.6	5284.6
20°	7184.8	6696.2	6247.1	5894.2	5591.7	5294.7	5143.4	5193.8	5097.6	5093.0
22.5°	7361.8	6797.1	6272.8	5909.8	5662.2	5224.1	4911.5	4951.8	4966.5	4941.8
25°	7729.3	7089.5	6494.6	6095.8	5738.3	5178.2	4734.6	4568.7	4750.2	4719.9
27.5°	8228.9	7492.8	6807.2	6292.9	5849.2	5183.8	4613.6	4230.4	4442.2	4447.7
30°	8768.8	7906.2	7124.3	6494.6	5823.6	5148.0	4447.7	3953.6	4074.6	4074.6
32.5°	9176.8	8244.5	7386.5	6589.9	5839.2	5163.6	4266.2	3740.9	3740.9	3720.8
35°	9469.2	8385.7	7331.5	6398.3	5577.0	4815.2	4059.0	3554.8	3529.2	3519.1
37.5°	9504.9	8315.1	7109.7	6065.6	5198.4	4528.3	3817.0	3413.7	3454.0	3478.8
40°	8597.4	7361.8	6262.7	5244.2	4528.3	4089.2	3645.6	3343.1	3443.9	3519.1
42.5°	7568.0	6428.6	5470.7	4623.7	4044.3	3710.7	3464.1	3262.4	3418.2	3519.1
45°	7150.0	6025.2	5198.4	4477.9	3903.2	3514.5	3307.3	3206.5	3433.8	3539.2
47.5°	7099.6	5940.0	5097.6	4452.2	3913.2	3433.8	3226.7	3146.0	3539.2	3690.5
50°	7341.6	5990.4	5082.9	4422.0	3897.7	3428.3	3292.7	3196.4	3766.6	4024.2
52.5°	7704.6	6081.2	5117.8	4361.5	3841.8	3448.5	3464.1	3428.3	4145.2	4477.9
55°	8148.2	6131.6	5072.8	4296.4	3781.2	3534.7	3685.9	3706.1	4341.3	4619.1
57.5°	8017.2	5954.7	4946.3	4225.8	3791.3	3700.6	3917.8	3781.2	4139.7	4256.1
60°	7336.1	5536.7	4744.7	4169.9	3817.0	3938.0	4094.8	3579.6	3696.0	3811.5
62.5°	7114.2	5425.8	4730.0	4180.0	3943.5	4149.8	3861.9	3040.6	3176.2	3317.4
65°	7029.0	5521.1	4815.2	4195.6	4084.7	4215.8	3367.8	2460.3	2566.7	2682.2
67.5°	7190.3	5369.8	4639.2	3917.8	3917.8	3761.1	2707.8	1875.5	1804.9	1905.8
70°	6615.6	4427.5	3539.2	2823.3	2893.9	2662.0	2012.1	1341.1	1119.2	1179.8
72.5°	4391.8	2813.2	1770.1	1255.8	1230.2	1114.7	953.3	665.5	584.8	605.0
75°	2738.1	1578.5	832.3	554.6	453.8	378.6	338.2	262.2	267.7	272.2
77.5°	1744.4	826.8	383.2	237.4	176.9	136.6	116.4	106.3	110.9	110.9
80°	761.8	312.6	131.1	70.6	45.8	20.2	25.7	25.7	20.2	20.2
82.5°	70.6	20.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)