

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: 769001_350MP

Luminaire Tested: **GSM-XX-350-MP-XX-FT-SG-XX-X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 769001_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-FT-SG-XX-X
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-FORWARD THROW DISTRIBUTION
Light Source: 350 WATT PULSE-START CLEAR ED-37 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 14918.7 lumens
Efficiency: 45.2%
Efficacy: 37.6 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

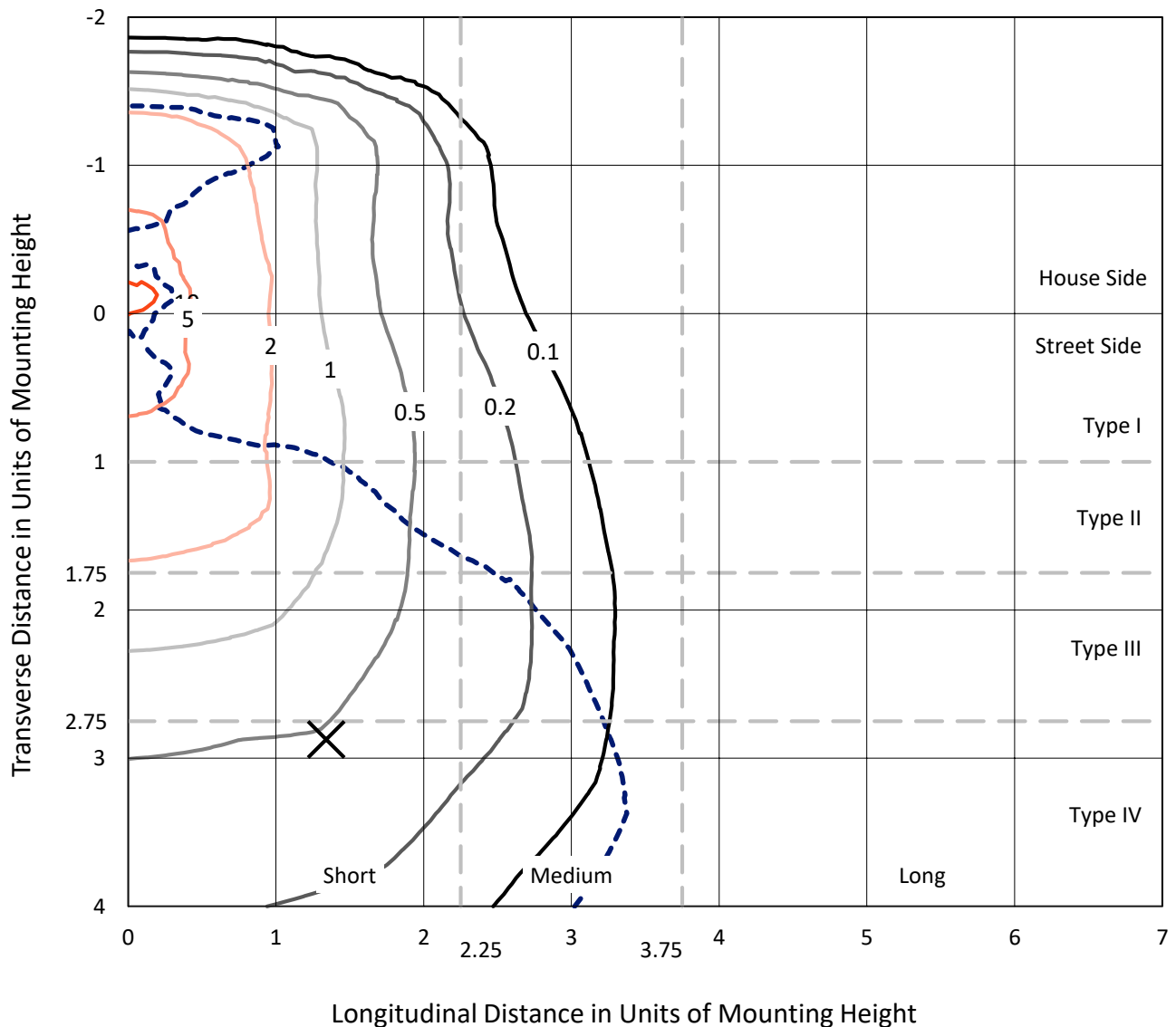
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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 CATALOG NUMBER: GSM-XX-350-MP-XX-FT-SG-XX-X

Iso-Footcandle Lines of Horizontal Illumination

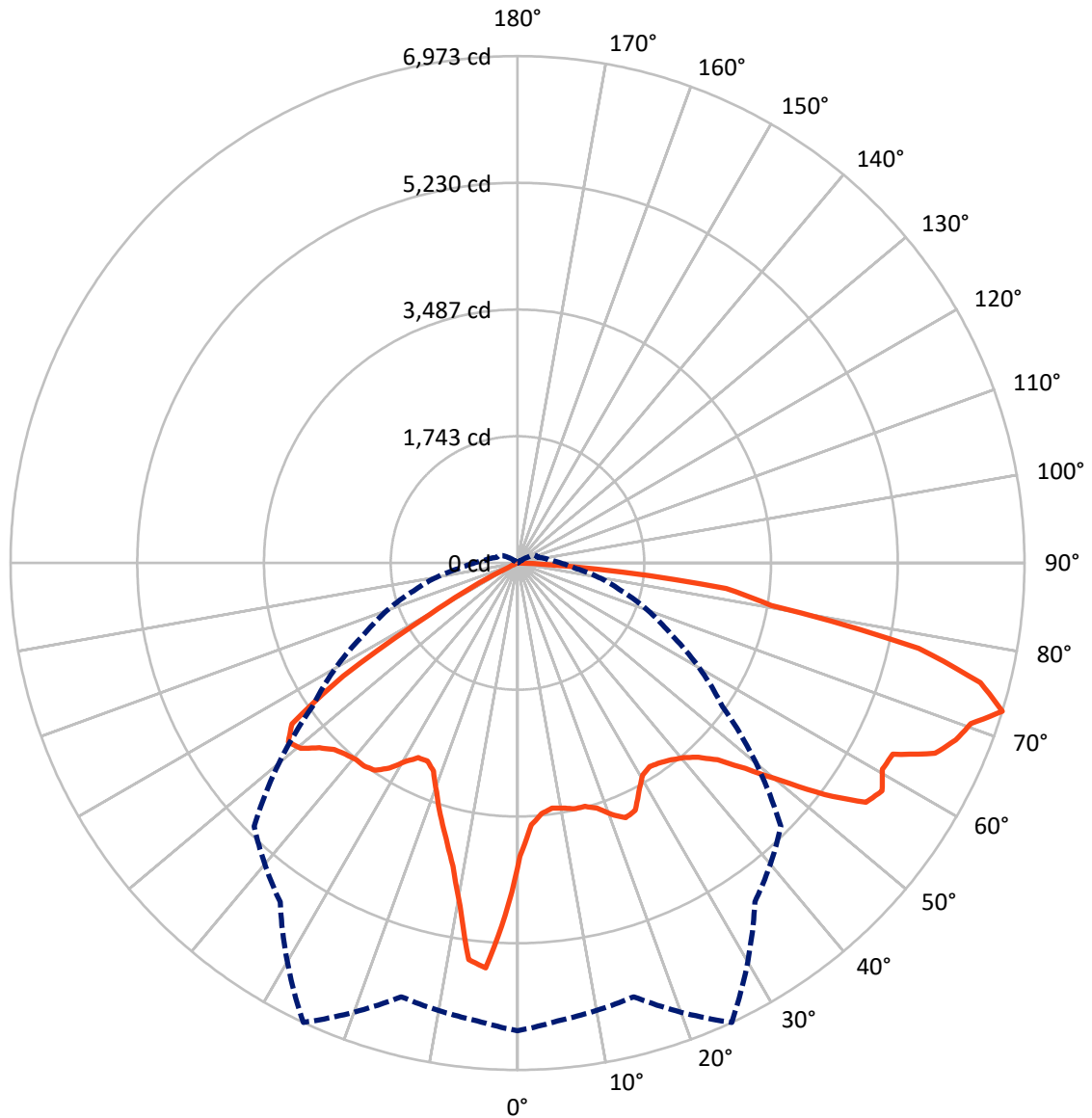
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.5 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: 769001_350MP
CATALOG NUMBER: GSM-XX-350-MP-XX-FT-SG-XX-X

Luminous Intensity Polar Plot



— Vertical Plane Through 25-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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CATALOG NUMBER: GSM-XX-350-MP-XX-FT-SG-XX-X

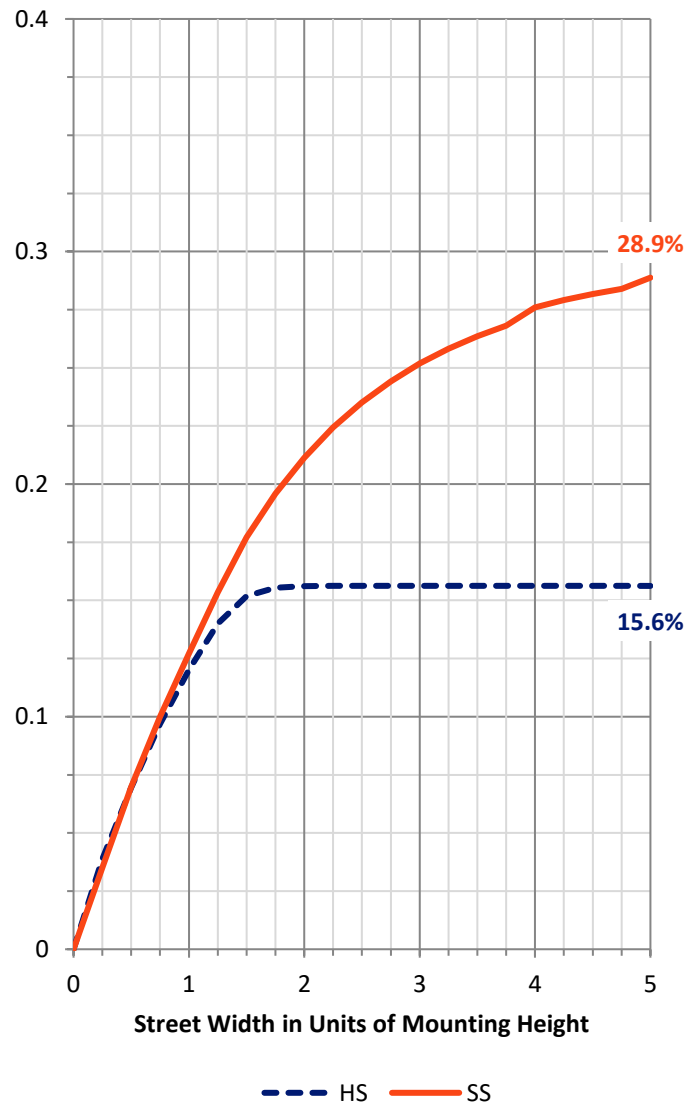
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5181.5	0.0	5181.5
	% Lamp	15.7	0.0	15.7
Street Side	Lumens	9737.2	0.0	9737.2
	% Lamp	29.5	0.0	29.5
Total	Lumens	14918.7	0.0	14918.7
	% Lamp	45.2	0.0	45.2

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	396.9	2.7	1.2
10°-20°	985.2	6.6	3.0
20°-30°	1358.5	9.1	4.1
30°-40°	1807.6	12.1	5.5
40°-50°	2400.4	16.1	7.3
50°-60°	2987.0	20.0	9.1
60°-70°	2548.7	17.1	7.7
70°-80°	1996.8	13.4	6.1
80°-90°	437.6	2.9	1.3
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°	14918.7	100.0	45.2
0°-180°	14918.7	100.0	45.2



REPORT NUMBER: 769001_350MP

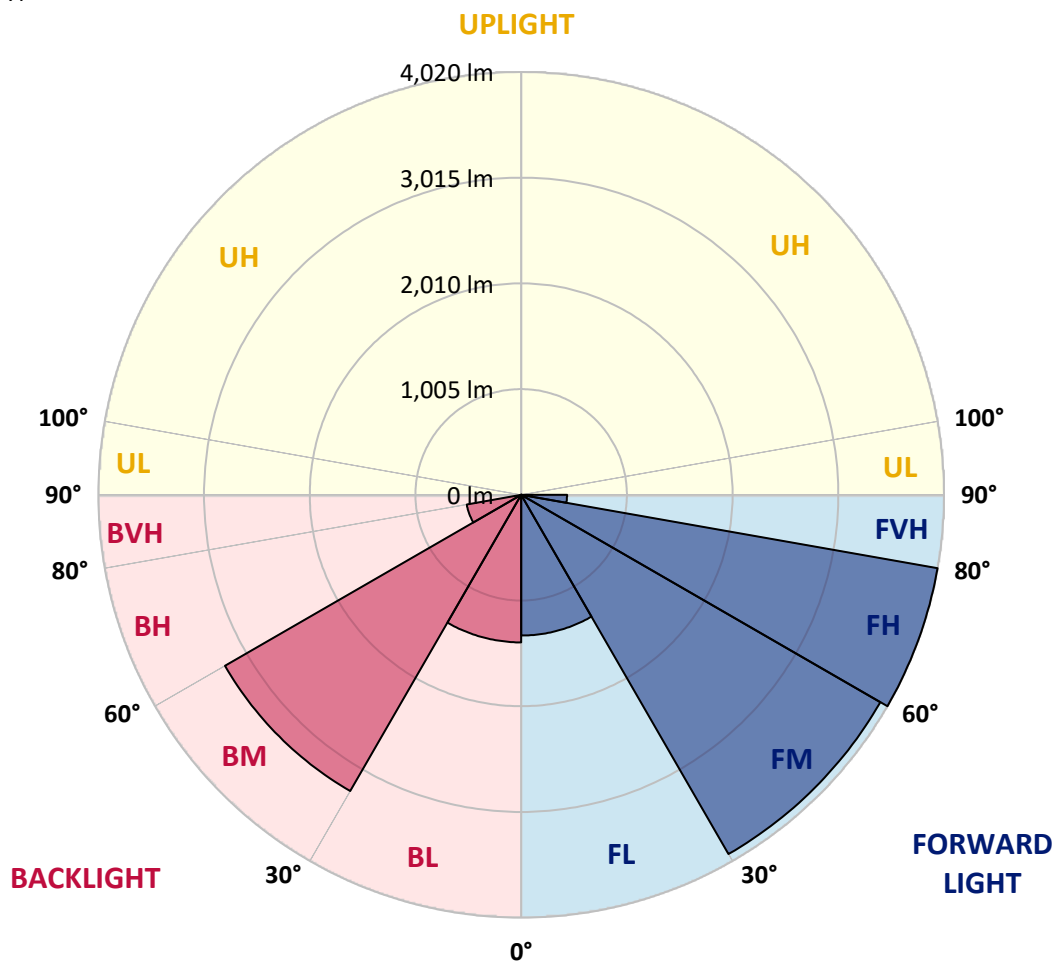
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1337.7	4.1			
FM	(30°-60°)	3943.2	11.9			
FH	(60°-80°)	4020.1	12.2			G2/5000
FVH	(80°-90°)	436.2	1.3			G3/500
BL	(0°-30°)	1403.0	4.3	B3/2500		
BM	(30°-60°)	3251.7	9.9	B3/5000		
BH	(60°-80°)	525.4	1.6	B2/1000		G2/1000
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		18081.3	54.8			

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4034.2	4034.2	4034.2	4034.2	4034.2	4034.2	4034.2	4034.2	4034.2	4034.2	4034.2
2.5°	3579.6	3569.5	3585.1	3605.2	3630.0	3675.8	3696.0	3756.5	3817.0	3927.9	3993.9
5°	3478.8	3458.6	3468.7	3464.1	3474.2	3494.3	3494.3	3549.3	3630.0	3786.8	3897.7
7.5°	3418.2	3408.2	3413.7	3403.6	3408.2	3398.1	3373.3	3367.8	3423.8	3579.6	3706.1
10°	3448.5	3448.5	3438.4	3428.3	3428.3	3377.9	3287.2	3232.2	3232.2	3353.2	3494.3
12.5°	3529.2	3524.6	3504.4	3468.7	3418.2	3322.9	3186.3	3075.4	3040.6	3111.2	3226.7
15°	3700.6	3685.9	3599.8	3474.2	3367.8	3226.7	3045.2	2909.5	2843.5	2873.8	2964.5
17.5°	3943.5	3927.9	3781.2	3544.8	3347.7	3146.0	2919.6	2752.8	2677.6	2692.2	2748.2
20°	4044.3	4028.8	3897.7	3690.5	3408.2	3095.6	2818.8	2647.3	2561.2	2556.6	2586.8
22.5°	3893.1	3893.1	3867.4	3806.9	3534.7	3085.5	2738.1	2561.2	2486.0	2455.8	2460.3
25°	3700.6	3700.6	3716.2	3766.6	3615.3	3115.8	2692.2	2516.2	2435.6	2389.8	2375.1
27.5°	3569.5	3564.9	3554.8	3554.8	3474.2	3131.3	2647.3	2480.5	2389.8	2339.3	2314.6
30°	3488.8	3488.8	3448.5	3388.0	3242.2	2994.8	2611.6	2435.6	2334.8	2278.8	2264.2
32.5°	3529.2	3529.2	3458.6	3337.6	3115.8	2879.2	2591.4	2420.0	2314.6	2258.7	2248.6
35°	3579.6	3579.6	3524.6	3373.3	3085.5	2808.7	2581.3	2399.8	2284.3	2244.0	2233.9
37.5°	3690.5	3680.4	3640.1	3433.8	3095.6	2823.3	2596.9	2395.2	2274.2	2228.4	2198.2
40°	3861.9	3857.3	3796.8	3519.1	3131.3	2853.6	2627.2	2405.3	2264.2	2198.2	2157.8
42.5°	4094.8	4069.1	3968.2	3650.2	3226.7	2919.6	2662.0	2440.2	2258.7	2157.8	2112.9
45°	4417.4	4391.8	4250.6	3861.9	3393.5	3000.2	2712.4	2480.5	2258.7	2102.8	2057.0
47.5°	4901.4	4861.1	4659.4	4220.3	3660.2	3101.1	2793.1	2530.9	2228.4	2026.8	1971.8
50°	5566.9	5516.5	5218.6	4704.3	4008.6	3267.0	2904.0	2571.2	2163.3	1925.9	1860.8
52.5°	6111.4	6061.0	5823.6	5289.2	4442.2	3534.7	3045.2	2621.7	2097.3	1830.6	1764.6
55°	6242.5	6196.7	6085.8	5813.5	4986.7	3867.4	3141.4	2677.6	2067.1	1790.2	1694.0
57.5°	6020.7	5960.2	5914.3	5914.3	5551.3	4180.0	3236.8	2717.9	2077.2	1754.5	1618.8
60°	5728.2	5662.2	5601.8	5763.1	5793.3	4427.5	3343.1	2742.7	2102.8	1699.5	1542.8
62.5°	5899.7	5853.8	5692.5	5793.3	5667.8	4482.5	3388.0	2707.8	2072.6	1588.6	1427.2
65°	6242.5	6202.2	6237.0	6313.1	5460.6	4346.8	3302.8	2621.7	1976.3	1441.9	1300.8
67.5°	6050.9	6010.6	6156.3	6499.2	5642.1	4361.5	3216.6	2516.2	1865.4	1310.8	1134.8
70°	6212.2	6176.5	6166.4	6615.6	5642.1	4609.0	3297.2	2435.6	1719.7	1129.3	907.5
72.5°	6434.1	6323.2	6176.5	6973.1	5692.5	5123.2	3443.9	2334.8	1482.2	781.9	594.9
75°	6343.3	6186.6	6085.8	6575.2	5425.8	4810.7	3095.6	1901.2	892.8	463.8	338.2
77.5°	6182.0	6085.8	5984.9	5642.1	4401.8	3806.9	2375.1	1250.3	499.6	312.6	242.0
80°	4387.2	4311.1	4054.4	3539.2	2601.5	2445.7	1643.6	882.8	368.5	197.1	131.1
82.5°	3710.7	3605.2	3353.2	2893.9	1976.3	1276.0	695.8	332.8	141.2	60.5	35.8
85°	1371.3	1286.1	1155.0	1094.5	423.5	328.2	181.5	25.7	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	10.1	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



REPORT NUMBER: 769001_350MP
 CATALOG NUMBER: GSM-XX-350-MP-XX-FT-SG-XX-X

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4034.2	4034.2	4034.2	4034.2	4034.2	4034.2	4034.2	4034.2	4034.2	4034.2
2.5°	4064.5	4185.5	4336.8	4488.0	4629.2	4744.7	4851.0	4906.0	4936.2	4941.8
5°	4008.6	4270.8	4578.8	4885.8	5163.6	5405.6	5587.1	5687.9	5738.3	5748.4
7.5°	3867.4	4250.6	4659.4	5022.4	5274.5	5430.3	5496.3	5500.9	5496.3	5496.3
10°	3660.2	4099.3	4532.9	4830.8	4941.8	4901.4	4780.4	4659.4	4578.8	4558.6
12.5°	3393.5	3841.8	4296.4	4528.3	4518.2	4401.8	4260.7	4114.9	3933.4	3893.1
15°	3121.2	3564.9	3978.3	4094.8	4028.8	3973.8	3917.8	3831.7	3599.8	3549.3
17.5°	2873.8	3242.2	3524.6	3488.8	3428.3	3559.4	3625.4	3575.0	3418.2	3367.8
20°	2657.4	2909.5	3035.1	2944.3	2949.8	3121.2	3337.6	3353.2	3282.6	3256.9
22.5°	2486.0	2607.0	2662.0	2677.6	2752.8	2873.8	3085.5	3196.4	3196.4	3196.4
25°	2379.7	2430.1	2486.0	2581.3	2682.2	2813.2	2990.2	3115.8	3196.4	3206.5
27.5°	2319.2	2349.4	2425.5	2541.0	2657.4	2798.6	3004.8	3156.1	3277.1	3287.2
30°	2268.8	2294.4	2379.7	2490.6	2637.2	2873.8	3135.9	3307.3	3433.8	3448.5
32.5°	2254.1	2268.8	2349.4	2475.9	2667.5	2990.2	3327.5	3529.2	3675.8	3690.5
35°	2228.4	2258.7	2319.2	2460.3	2728.0	3091.0	3458.6	3585.1	3665.8	3670.3
37.5°	2198.2	2274.2	2309.1	2470.4	2793.1	3206.5	3498.9	3534.7	3589.7	3609.8
40°	2173.4	2314.6	2314.6	2490.6	2863.7	3267.0	3498.9	3554.8	3625.4	3630.0
42.5°	2147.8	2354.9	2319.2	2516.2	2919.6	3287.2	3539.2	3645.6	3736.3	3730.8
45°	2087.2	2314.6	2294.4	2526.3	2939.8	3307.3	3595.2	3786.8	3968.2	3973.8
47.5°	1971.8	2188.1	2228.4	2546.5	2954.4	3357.8	3726.2	4024.2	4240.5	4266.2
50°	1845.2	2022.2	2157.8	2530.9	3010.3	3524.6	3923.3	4225.8	4498.1	4538.4
52.5°	1729.8	1860.8	2087.2	2516.2	3085.5	3746.4	3998.5	4225.8	4341.3	4346.8
55°	1649.1	1729.8	2002.0	2510.8	3206.5	3893.1	3811.5	3579.6	3297.2	3267.0
57.5°	1568.4	1613.3	1931.4	2490.6	3383.4	3625.4	2859.1	1931.4	1784.8	1784.8
60°	1502.4	1507.9	1865.4	2496.1	3433.8	2596.9	1397.0	957.9	786.5	766.3
62.5°	1386.9	1386.9	1784.8	2460.3	2803.2	1078.9	701.2	332.8	211.8	201.7
65°	1225.6	1220.1	1689.4	2208.2	1225.6	439.1	131.1	70.6	50.4	50.4
67.5°	1034.0	1013.8	1356.7	1286.1	308.0	45.8	10.1	10.1	5.5	10.1
70°	781.9	635.2	822.2	368.5	35.8	0.0	0.0	0.0	0.0	0.0
72.5°	449.2	297.9	257.6	70.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	262.2	116.4	30.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	176.9	30.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	90.8	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.2	0.0	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	5.5	0.0
87.5°	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	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)