

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: 769016\_350MP

Luminaire Tested: **GSM-XX-350-MP-XX-1F-SG-XX-HS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: 769016\_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-1F-SG-XX-HS  
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-TYPE I  
DISTRIBUTION  
WITH HOUSE-SIDE SHIELD  
Light Source: 350 WATT PULSE-START CLEAR ED-37 HORIZONTAL BURN  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 33000 (1 lamp)  
Luminaire Lumens: 20287 lumens  
Efficiency: 61.5%  
Efficacy: 51.1 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type II - Medium - Cutoff  
BUG Rating: B4 - U1 - G4

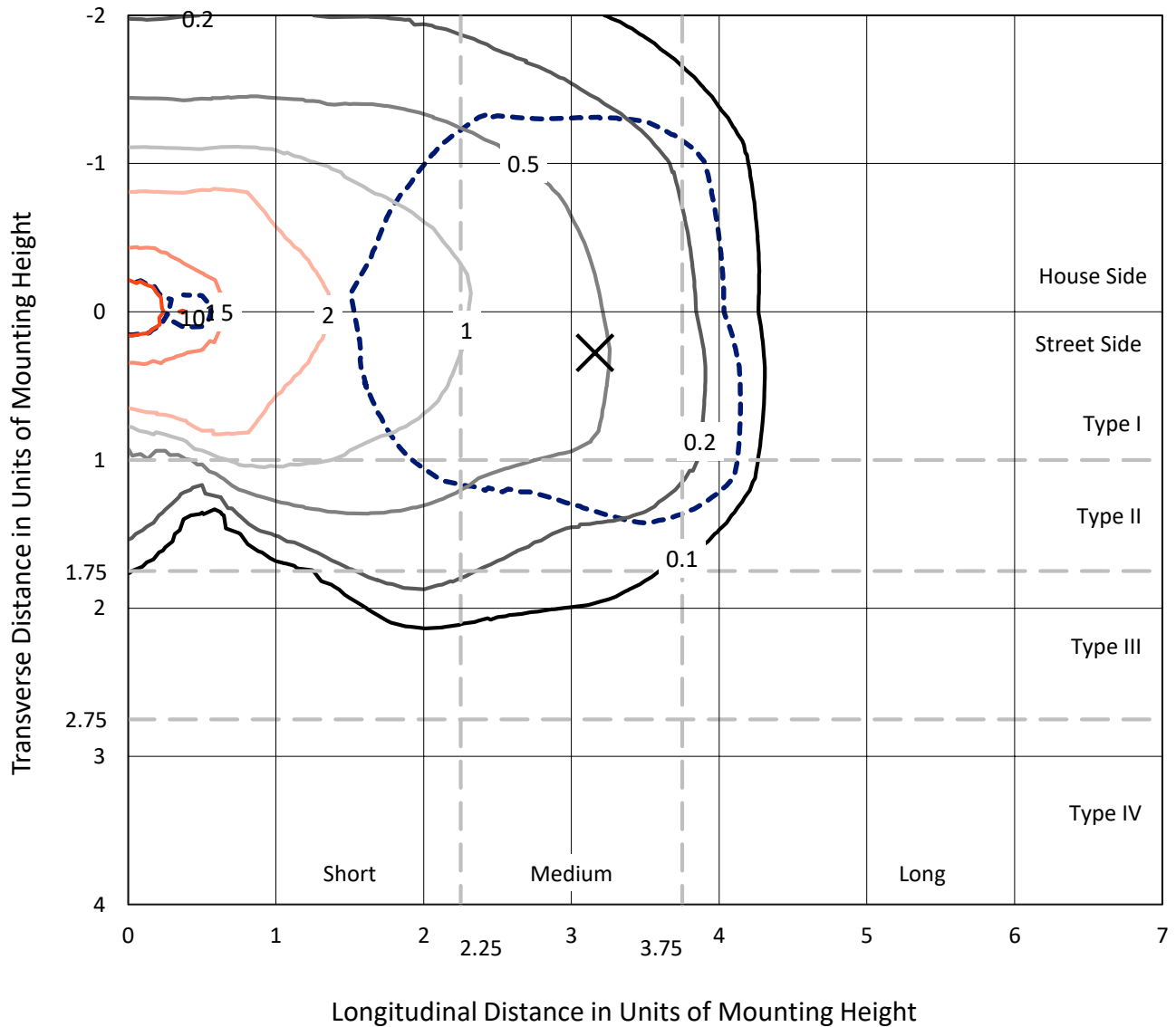
Input Watts (W): 397  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

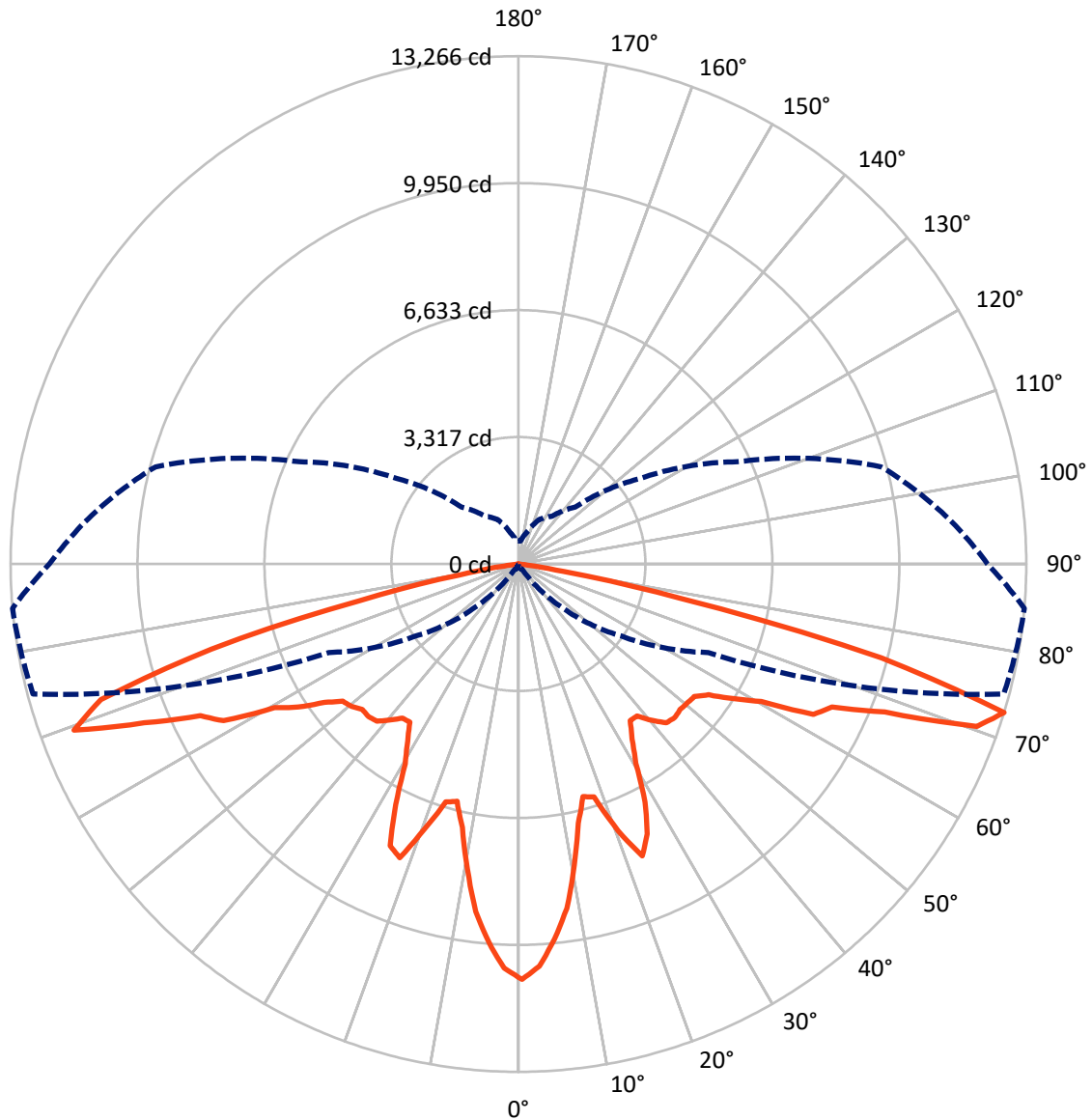
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc  
 Type II - Medium - Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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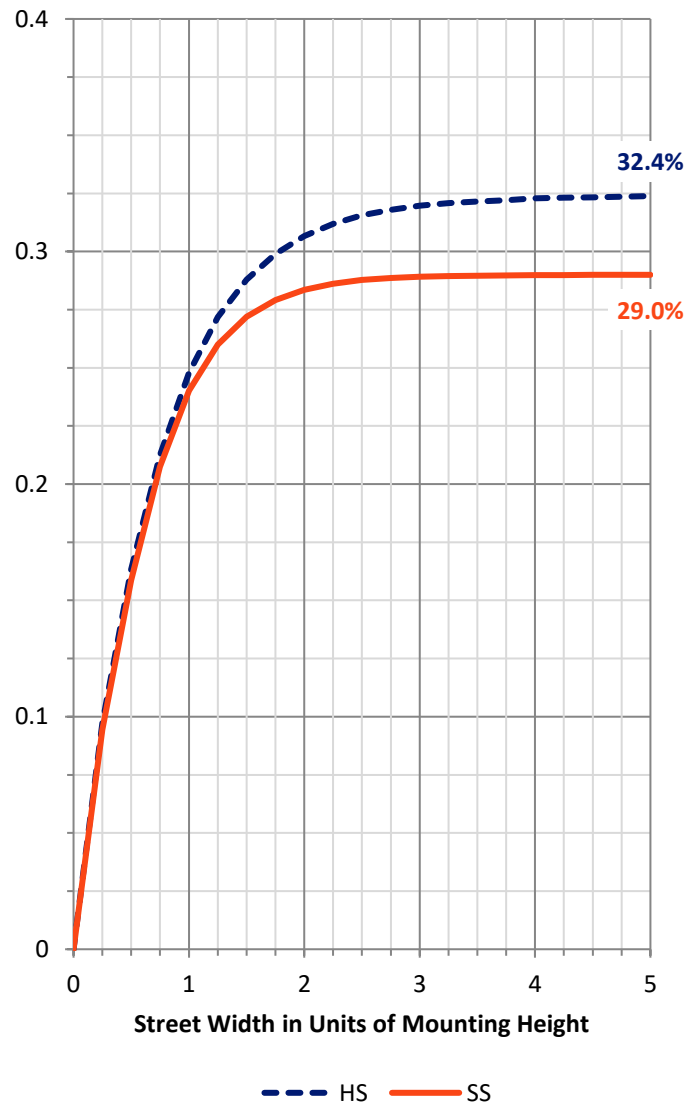
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10733.6	2.5	10736.1
	% Lamp	32.5	0.0	32.5
<b>Street Side</b>	Lumens	9550.9	0.1	9551.0
	% Lamp	28.9	0.0	28.9
<b>Total</b>	Lumens	20284.5	2.6	20287.0
	% Lamp	61.5	0.0	61.5

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	841.2	4.1	2.5
10°-20°	1632.2	8.0	4.9
20°-30°	2182.0	10.8	6.6
30°-40°	2323.3	11.5	7.0
40°-50°	2816.7	13.9	8.5
50°-60°	3128.8	15.4	9.5
60°-70°	4119.7	20.3	12.5
70°-80°	3097.7	15.3	9.4
80°-90°	143.1	0.7	0.4
90°-100°	2.5	0.0	0.0
100°-110°	0.1	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°	20284.5	100.0	61.5
0°-180°	20287.0	100.0	61.5



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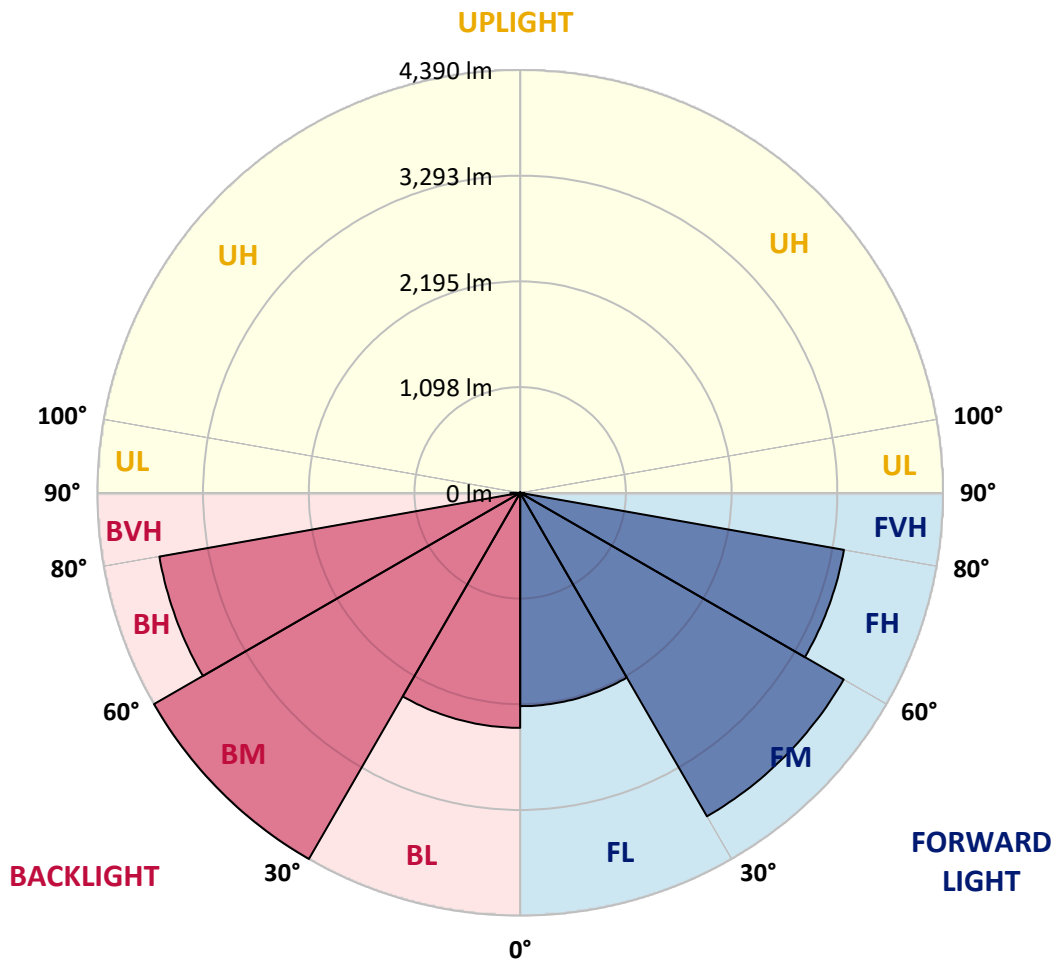
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2215.3	6.7			
FM (30°-60°)	3878.5	11.8			
FH (60°-80°)	3413.6	10.3			G2/5000
FVH (80°-90°)	43.5	0.1			G1/100
BL (0°-30°)	2440.0	7.4	B3/2500		
BM (30°-60°)	4390.2	13.3	B3/5000		
BH (60°-80°)	3803.8	11.5	B4/5000		G4/5000
BVH (80°-90°)	99.6	0.3			G1/100
UL (90°-100°)	2.5	0.0		U1/10	
UH (100°-180°)	2.5	0.0		U1/10	
Trapped Light	12713.0	38.5			

**BUG Rating: B4-U1-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10850.6	10850.6	10850.6	10850.6	10850.6	10850.6	10850.6	10850.6	10850.6	10850.6	10850.6
2.5°	10195.2	10195.2	10220.8	10245.6	10285.9	10311.6	10376.7	10447.2	10493.1	10517.8	10543.5
5°	8602.0	8612.1	8708.3	8833.9	9035.6	9227.2	9424.2	9620.4	9771.7	9837.7	9882.6
7.5°	6958.4	6978.6	7124.3	7356.2	7668.8	8002.5	8380.2	8672.6	8934.8	9081.4	9126.3
10°	5929.9	5944.6	6050.9	6237.0	6555.1	6983.2	7416.8	7678.9	7876.0	8002.5	8063.0
12.5°	5244.2	5254.3	5294.7	5430.3	5682.4	6020.7	6347.9	6676.1	6862.2	6948.3	7008.8
15°	4538.4	4558.6	4674.1	4851.0	5082.9	5224.1	5506.4	5839.2	6105.9	6303.0	6398.3
17.5°	3861.9	3887.6	4145.2	4422.0	4573.2	4649.3	4966.5	5486.2	6085.8	6398.3	6504.7
20°	3398.1	3423.8	3670.3	3998.5	4169.9	4246.0	4578.8	5365.2	6807.2	7442.4	7457.1
22.5°	3065.3	3091.0	3297.2	3635.5	3883.0	4044.3	4367.0	5269.0	7059.2	8284.8	8486.5
25°	2843.5	2863.7	3025.0	3357.8	3650.2	3913.2	4316.6	5198.4	6710.9	7810.9	8103.3
27.5°	2702.3	2702.3	2899.4	3156.1	3433.8	3791.3	4296.4	5214.0	6222.3	7043.7	7184.8
30°	2500.7	2530.9	2843.5	2970.0	3307.3	3579.6	3933.4	4770.3	5420.2	6035.3	6131.6
32.5°	2228.4	2299.0	2752.8	2934.2	3242.2	3322.9	3529.2	4119.5	4891.3	5450.5	5526.6
35°	1754.5	1840.7	2440.2	2849.0	3448.5	3377.9	3498.9	3983.8	4598.9	5027.0	5072.8
37.5°	1230.2	1331.0	1971.8	2697.8	3720.8	3575.0	3585.1	4084.7	4653.9	5032.5	5052.7
40°	857.1	993.7	1391.5	2359.5	3938.0	3963.7	3817.0	4306.5	5002.2	5369.8	5339.6
42.5°	685.7	857.1	867.2	1925.9	3978.3	4331.2	4145.2	4522.8	5425.8	5667.8	5601.8
45°	806.7	927.7	640.8	1421.8	3776.7	4528.3	4356.9	4679.6	5526.6	5722.8	5682.4
47.5°	917.6	988.2	574.8	968.0	3262.4	4588.8	4346.8	4588.8	5335.0	5682.4	5667.8
50°	957.9	947.8	554.6	650.8	2712.4	4377.1	4220.3	4532.9	5208.5	5712.7	5773.2
52.5°	1078.9	927.7	519.8	449.2	2389.8	3933.4	4422.0	4633.8	5258.9	5753.0	5813.5
55°	917.6	691.2	342.8	332.8	2077.2	3564.9	4774.9	4800.6	5506.4	6030.8	6151.8
57.5°	715.9	544.5	272.2	262.2	1734.3	3357.8	4966.5	5103.1	6282.8	6640.3	6791.6
60°	544.5	418.9	272.2	221.8	1441.9	3206.5	4982.1	5702.6	7160.1	7285.7	7361.8
62.5°	413.4	363.0	267.7	191.6	1044.1	3095.6	5042.6	6458.8	8319.7	8647.8	8668.0
65°	282.3	292.4	262.2	161.3	701.2	2984.7	5022.4	7119.8	8657.9	9000.8	9005.3
67.5°	141.2	156.8	221.8	156.8	459.2	2904.0	4996.8	7366.3	9494.8	10321.7	10457.3
70°	0.0	10.1	90.8	161.3	257.6	2738.1	4639.2	6801.7	11612.3	12701.3	12731.6
72.5°	0.0	0.0	20.2	141.2	161.3	1598.7	3277.1	5470.7	13124.8	13266.0	12253.1
75°	0.0	0.0	0.0	60.5	100.8	600.4	2853.6	5208.5	10785.5	9797.3	8577.2
77.5°	0.0	0.0	0.0	0.0	50.4	277.8	2087.2	3524.6	4921.6	4311.1	3963.7
80°	0.0	0.0	0.0	0.0	15.6	136.6	736.1	953.3	1195.3	1185.2	1265.9
82.5°	0.0	0.0	0.0	0.0	0.0	20.2	96.2	151.2	187.0	242.0	297.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	15.6	30.2	35.8
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	5.5	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	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):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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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 CATALOG NUMBER: GSM-XX-350-MP-XX-1F-SG-XX-HS

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10850.6	10850.6	10850.6	10850.6	10850.6	10850.6	10850.6	10850.6	10850.6	10850.6
2.5°	10563.7	10618.7	10654.4	10694.8	10749.8	10790.1	10800.2	10825.8	10835.9	10820.3
5°	9902.8	9928.4	9948.6	9943.1	9933.0	9933.0	9918.3	9938.5	9948.6	9963.2
7.5°	9146.5	9091.5	9025.5	8930.2	8823.8	8702.8	8597.4	8571.8	8561.7	8571.8
10°	8073.1	8037.3	7956.7	7785.2	7628.5	7462.6	7351.7	7301.2	7311.3	7321.4
12.5°	7039.1	7003.3	6938.2	6827.3	6640.3	6464.3	6363.5	6337.8	6333.2	6343.3
15°	6403.8	6257.2	6176.5	6045.4	5929.9	5773.2	5647.6	5632.0	5611.8	5627.4
17.5°	6499.2	6196.7	5763.1	5460.6	5369.8	5324.9	5153.5	5077.4	5032.5	5012.3
20°	7336.1	6655.9	5728.2	5117.8	4966.5	4895.9	4734.6	4659.4	4532.9	4518.2
22.5°	8274.8	7053.8	5708.1	4885.8	4609.0	4522.8	4387.2	4256.1	4104.8	4094.8
25°	8083.2	6963.0	5526.6	4669.5	4371.6	4256.1	4145.2	3938.0	3736.3	3710.7
27.5°	7053.8	6327.8	5228.7	4427.5	4099.3	4028.8	3933.4	3696.0	3423.8	3398.1
30°	6000.5	5531.2	4790.5	4059.0	3831.7	3837.2	3766.6	3468.7	3222.1	3176.2
32.5°	5450.5	5072.8	4397.2	3761.1	3514.5	3544.8	3474.2	3292.7	3055.2	3004.8
35°	5006.8	4764.8	4190.1	3655.7	3504.4	3519.1	3297.2	3075.4	2893.9	2873.8
37.5°	5037.1	4724.5	4145.2	3665.8	3630.0	3595.2	3156.1	2893.9	2738.1	2712.4
40°	5284.6	4972.0	4270.8	3811.5	3872.9	3665.8	3014.9	2728.0	2586.8	2571.2
42.5°	5521.1	5183.8	4442.2	4028.8	4145.2	3700.6	2859.1	2566.7	2455.8	2440.2
45°	5591.7	5238.8	4558.6	4246.0	4316.6	3640.1	2687.7	2399.8	2284.3	2288.9
47.5°	5571.5	5203.9	4558.6	4401.8	4387.2	3488.8	2536.4	2244.0	2127.6	2107.4
50°	5728.2	5274.5	4512.8	4290.9	4326.7	3277.1	2395.2	2087.2	1966.2	1946.1
52.5°	5823.6	5324.9	4633.8	4321.2	4099.3	3060.8	2264.2	1931.4	1815.0	1804.9
55°	6216.8	5516.5	4790.5	4482.5	3847.2	2859.1	2157.8	1794.8	1689.4	1683.9
57.5°	6862.2	6010.6	5016.9	4629.2	3635.5	2702.3	2057.0	1673.8	1593.2	1593.2
60°	7396.6	6509.2	5450.5	4764.8	3484.2	2576.8	1991.9	1603.2	1502.4	1502.4
62.5°	8718.4	7588.2	6111.4	5032.5	3383.4	2425.5	1921.3	1562.9	1381.4	1401.6
65°	9202.4	8224.3	6589.9	5214.0	3353.2	2365.0	1830.6	1512.5	1245.8	1240.2
67.5°	10618.7	9418.8	7210.5	5264.4	3272.5	2244.0	1694.0	1417.2	1064.2	1008.3
70°	12394.2	10689.2	7547.8	5178.2	3176.2	2102.8	1538.2	1205.4	872.7	826.8
72.5°	11465.7	9812.0	6317.7	3897.7	2102.8	1522.6	1280.6	857.1	600.4	605.0
75°	8325.2	7962.2	5319.4	3201.9	1195.3	570.2	529.8	524.3	453.8	453.8
77.5°	4286.3	4764.8	3665.8	2405.3	792.0	277.8	201.7	237.4	308.0	332.8
80°	1573.0	2006.6	1784.8	1331.0	484.0	187.0	136.6	136.6	166.8	191.6
82.5°	368.5	473.9	463.8	388.7	166.8	86.2	86.2	76.1	106.3	121.0
85°	40.3	35.8	30.2	20.2	15.6	25.7	45.8	55.9	76.1	80.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	15.6	40.3	66.0	70.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	15.6	45.8	70.6	80.7
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	10.1
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	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°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)