

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: 769012\_350MP

Luminaire Tested: **GSM-XX-350-MP-XX-2F-SG-XX-HS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: 769012\_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-SG-XX-HS  
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-TYPE II  
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: 23858.3 lumens  
Efficiency: 72.3%  
Efficacy: 60.1 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type III - Medium - Cutoff  
BUG Rating: B4 - U1 - G3

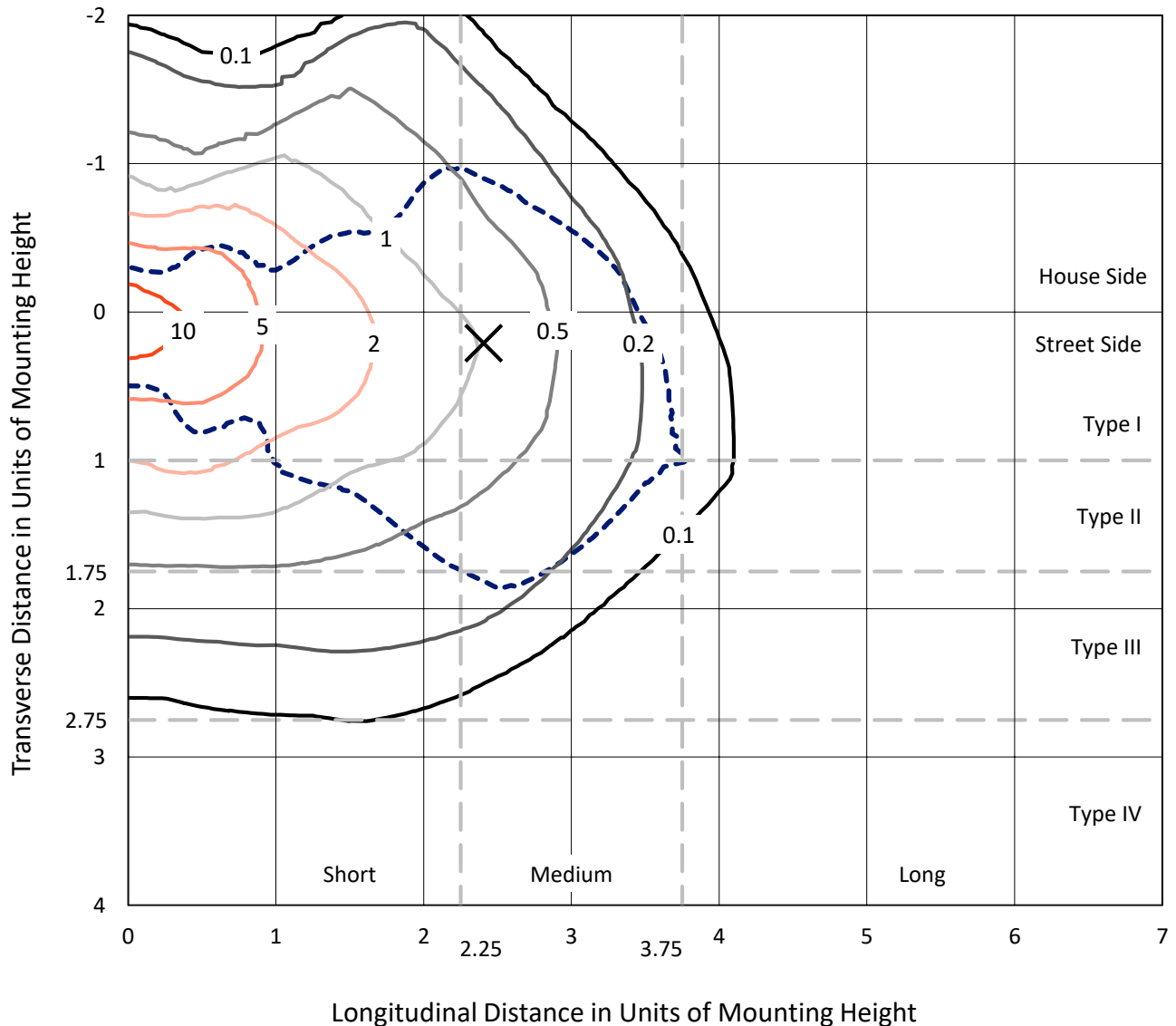
Input Watts (W): 397  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

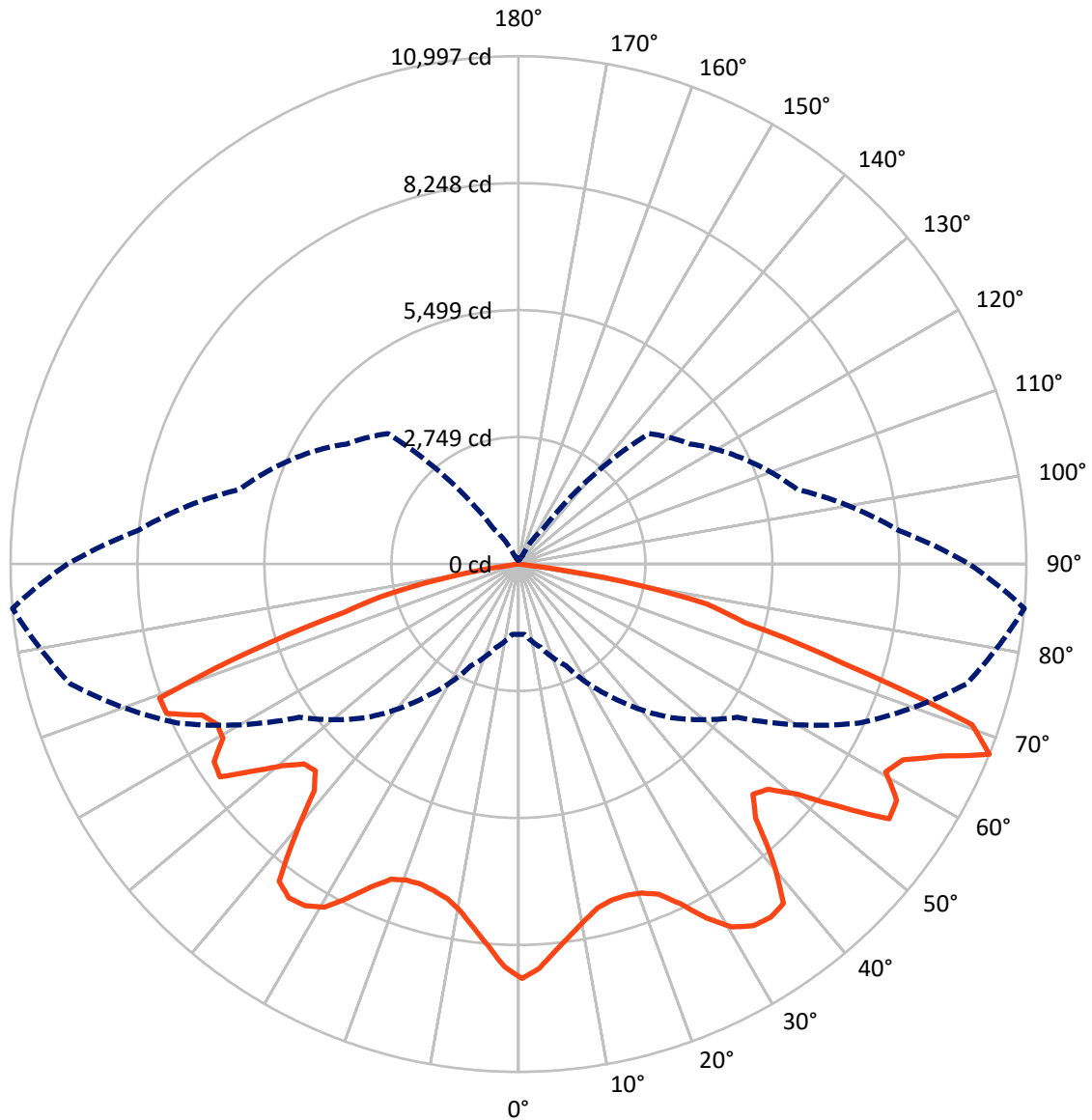
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc  
 Type III - Medium - Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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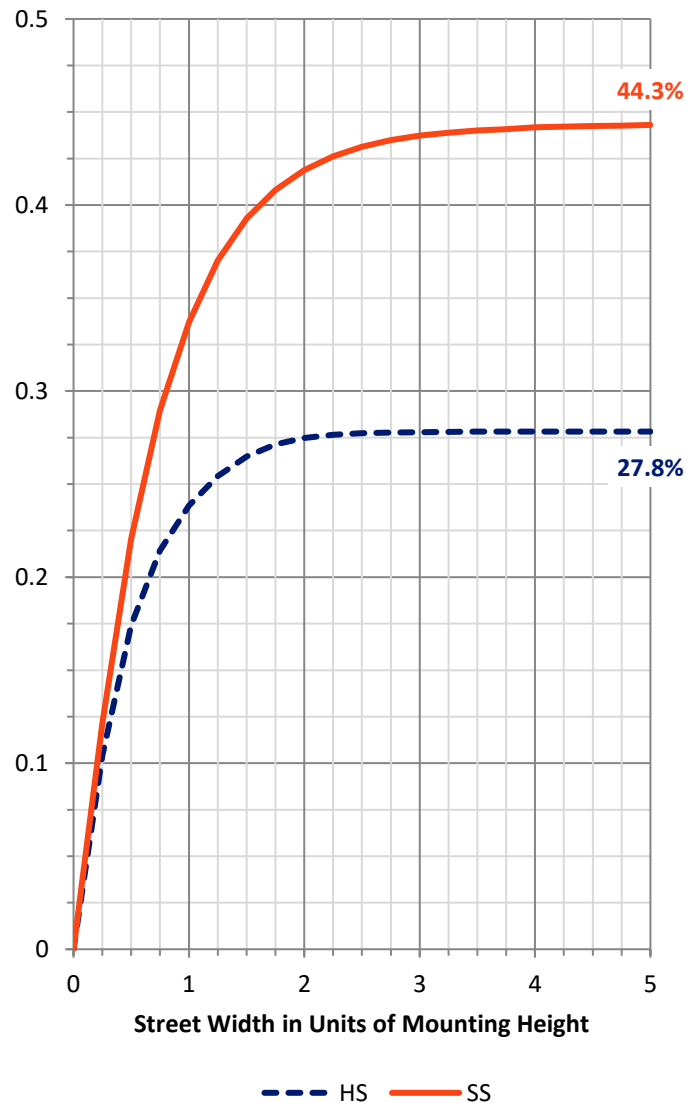
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9240.9	0.0	9240.9
	% Lamp	28.0	0.0	28.0
<b>Street Side</b>	Lumens	14606.9	10.5	14617.4
	% Lamp	44.3	0.0	44.3
<b>Total</b>	Lumens	23847.9	10.5	23858.3
	% Lamp	72.3	0.0	72.3

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	784.3	3.3	2.4
10°-20°	1964.1	8.2	6.0
20°-30°	2890.7	12.1	8.8
30°-40°	3693.2	15.5	11.2
40°-50°	3636.3	15.2	11.0
50°-60°	4163.4	17.5	12.6
60°-70°	4304.8	18.0	13.0
70°-80°	2261.7	9.5	6.9
80°-90°	149.3	0.6	0.5
90°-100°	9.6	0.0	0.0
100°-110°	1.8	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°	23847.9	100.0	72.3
0°-180°	23858.3	100.0	72.3



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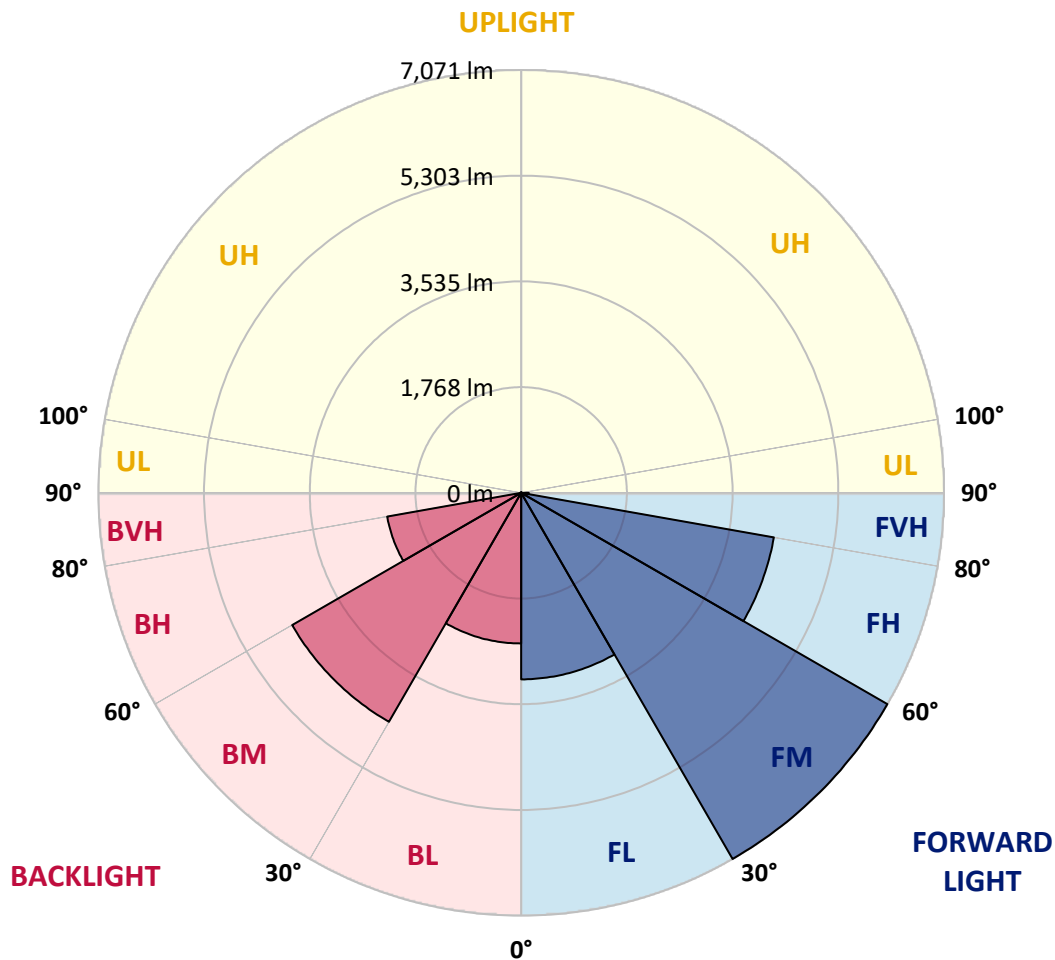
CATALOG NUMBER: GSM-XX-350-MP-XX-2F-SG-XX-HS

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

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3119.3	9.5			
FM (30°-60°)	7071.0	21.4			
FH (60°-80°)	4291.1	13.0			G2/5000
FVH (80°-90°)	125.5	0.4			G2/225
BL (0°-30°)	2519.8	7.6	B4/5000		
BM (30°-60°)	4421.9	13.4	B3/5000		
BH (60°-80°)	2275.5	6.9	B3/2500		G3/2500
BVH (80°-90°)	23.8	0.1			G1/100
UL (90°-100°)	9.6	0.0		U1/10	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	9141.7	27.7			

**BUG Rating: B4-U1-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8975.1	8975.1	8975.1	8975.1	8975.1	8975.1	8975.1	8975.1	8975.1	8975.1	8975.1
2.5°	9267.5	9242.8	9212.5	9162.1	9101.6	9020.9	8954.9	8894.4	8819.2	8758.8	8738.6
5°	9428.8	9408.7	9343.6	9227.2	9101.6	8950.3	8789.0	8662.5	8541.5	8405.8	8335.2
7.5°	9186.8	9172.2	9101.6	8975.1	8894.4	8753.2	8581.8	8446.2	8289.4	8113.4	8017.2
10°	8723.0	8708.3	8647.8	8602.0	8541.5	8436.1	8375.6	8239.0	8073.1	7851.2	7729.3
12.5°	8188.6	8163.8	8138.2	8143.7	8143.7	8118.0	8063.0	7976.8	7841.2	7638.6	7527.7
15°	7634.0	7628.5	7678.9	7724.8	7770.6	7790.8	7821.0	7835.7	7744.9	7553.3	7447.0
17.5°	7129.8	7104.2	7215.1	7311.3	7351.7	7462.6	7598.2	7704.6	7699.1	7543.2	7416.8
20°	6605.5	6569.8	6706.3	6847.5	6978.6	7144.5	7422.2	7638.6	7714.7	7603.8	7467.2
22.5°	6101.3	6081.2	6242.5	6434.1	6615.6	6902.5	7285.7	7658.8	7865.9	7765.1	7608.3
25°	5667.8	5642.1	5788.8	6040.8	6358.0	6746.7	7291.2	7886.1	8274.8	8148.2	7972.2
27.5°	5234.2	5214.0	5385.4	5698.0	6121.5	6736.6	7497.4	8315.1	8768.8	8682.7	8430.6
30°	4891.3	4875.8	5093.0	5480.8	6040.8	6817.2	7800.8	8678.1	9192.3	9121.8	8874.2
32.5°	4538.4	4553.1	4891.3	5390.0	6091.2	6983.2	7956.7	8809.2	9398.6	9338.1	9051.2
35°	4235.9	4266.2	4714.4	5324.9	6141.7	7104.2	7916.3	8793.6	9444.4	9398.6	9081.4
37.5°	4034.2	4054.4	4633.8	5304.8	6206.8	6998.8	7770.6	8809.2	9580.1	9323.4	8965.0
40°	3851.8	3861.9	4553.1	5324.9	6061.0	6706.3	7578.1	8632.2	9086.0	8501.2	8027.2
42.5°	3670.3	3685.9	4518.2	5258.9	5692.5	6146.2	6998.8	7956.7	8107.9	7527.7	7059.2
45°	3529.2	3544.8	4432.1	5127.8	5203.9	5500.9	6242.5	7104.2	7477.2	7114.2	6741.2
47.5°	3388.0	3393.5	4296.4	4931.7	4911.5	5123.2	5763.1	6710.9	7452.5	7285.7	6877.8
50°	3216.6	3212.0	4048.9	4679.6	4916.1	5148.0	5652.2	6877.8	7916.3	7831.1	7386.5
52.5°	3045.2	3014.9	3746.4	4381.7	5002.2	5319.4	5859.3	7331.5	8728.5	8733.1	8097.8
55°	2813.2	2803.2	3393.5	4044.3	4996.8	5466.1	6192.1	7942.0	9625.9	9741.4	8960.4
57.5°	2591.4	2586.8	2934.2	3685.9	4795.1	5405.6	6327.8	8218.8	9751.5	9656.2	8844.0
60°	2349.4	2405.3	2627.2	3333.0	4381.7	5133.3	6061.0	8123.5	9156.6	9136.4	8446.2
62.5°	2117.5	2167.9	2389.8	2990.2	3963.7	4845.5	5722.8	8390.2	9277.6	9343.6	8486.5
65°	1774.7	1790.2	2097.3	2647.3	3675.8	4754.8	5748.4	8702.8	10084.2	10023.8	8910.0
67.5°	1522.6	1528.1	1870.9	2430.1	3514.5	4709.8	5783.2	8143.7	10039.3	10997.2	9761.6
70°	1230.2	1250.3	1659.2	2167.9	3277.1	4502.7	5843.8	7578.1	9676.3	10417.0	9232.7
72.5°	937.8	947.8	1250.3	1855.3	2869.2	4109.4	5642.1	7160.1	8400.3	7361.8	6549.6
75°	695.8	685.7	816.8	1179.8	1568.4	2274.2	3388.0	4447.7	5571.5	5062.8	4422.0
77.5°	473.9	489.5	363.0	373.1	529.8	1068.8	2042.3	3433.8	4986.7	4175.4	3524.6
80°	332.8	322.7	252.1	247.5	328.2	630.7	1199.9	2203.7	3050.7	2299.0	1911.2
82.5°	262.2	257.6	201.7	166.8	146.7	151.2	191.6	257.6	373.1	252.1	211.8
85°	221.8	221.8	171.4	121.0	76.1	35.8	10.1	5.5	0.0	0.0	0.0
87.5°	131.1	136.6	96.2	55.9	20.2	0.0	0.0	0.0	0.0	0.0	0.0
90°	141.2	146.7	100.8	55.9	25.7	0.0	0.0	0.0	0.0	0.0	0.0
95°	60.5	60.5	40.3	20.2	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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CATALOG NUMBER: GSM-XX-350-MP-XX-2F-SG-XX-HS

**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-2F-SG-XX-HS

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8975.1	8975.1	8975.1	8975.1	8975.1	8975.1	8975.1	8975.1	8975.1	8975.1
2.5°	8723.0	8698.2	8642.3	8607.5	8597.4	8581.8	8567.2	8567.2	8536.9	8541.5
5°	8294.9	8184.0	8067.6	8002.5	8017.2	8032.8	8057.5	8057.5	8037.3	8037.3
7.5°	7936.5	7724.8	7517.6	7402.1	7305.8	7336.1	7376.4	7346.2	7281.1	7271.0
10°	7618.4	7341.6	7104.2	6872.2	6710.9	6630.2	6686.2	6680.7	6625.7	6625.7
12.5°	7406.7	7094.1	6807.2	6499.2	6262.7	6071.1	6136.2	6171.9	6126.1	6131.6
15°	7305.8	6963.0	6615.6	6237.0	5914.3	5718.2	5662.2	5672.3	5611.8	5617.3
17.5°	7245.3	6852.1	6438.7	5964.8	5657.7	5369.8	5228.7	5254.3	5208.5	5203.9
20°	7260.9	6776.9	6303.0	5849.2	5490.8	5117.8	4885.8	4911.5	4891.3	4911.5
22.5°	7361.8	6821.8	6237.0	5788.8	5400.1	4881.2	4532.9	4558.6	4674.1	4679.6
25°	7678.9	7049.2	6398.3	5914.3	5345.1	4684.2	4250.6	4104.8	4316.6	4326.7
27.5°	8107.9	7396.6	6650.4	6025.2	5279.1	4482.5	3927.9	3529.2	3650.2	3680.4
30°	8536.9	7739.4	6948.3	6182.0	5037.1	4200.2	3403.6	2893.9	2929.7	2944.3
32.5°	8723.0	7972.2	7160.1	6267.2	4875.8	3903.2	2873.8	2274.2	2248.6	2248.6
35°	8773.4	7946.6	6963.0	6015.2	4522.8	3595.2	2389.8	1784.8	1780.2	1784.8
37.5°	8602.0	7750.4	6706.3	5667.8	4200.2	3312.8	2002.0	1437.3	1538.2	1573.0
40°	7573.5	6721.0	5813.5	4825.3	3857.3	3014.9	1689.4	1356.7	1492.3	1573.0
42.5°	6600.0	5793.3	5016.9	4215.8	3615.3	2742.7	1431.8	1280.6	1482.2	1593.2
45°	6272.8	5460.6	4780.4	4129.6	3579.6	2465.8	1215.5	1230.2	1457.5	1502.4
47.5°	6347.9	5445.9	4750.2	4149.8	3630.0	2203.7	1064.2	1165.1	1235.7	1220.1
50°	6721.0	5601.8	4785.0	4180.0	3650.2	1981.8	1058.8	1149.5	1078.9	1119.2
52.5°	7275.6	5823.6	4861.1	4169.9	3619.9	1784.8	1104.6	1189.8	1255.8	1310.8
55°	7936.5	6015.2	4926.2	4169.9	3589.7	1608.8	1109.2	1129.3	1300.8	1391.5
57.5°	7855.8	5924.4	4891.3	4169.9	3619.9	1427.2	1028.5	943.2	1169.7	1300.8
60°	7426.8	5642.1	4810.7	4246.0	3696.0	1245.8	852.5	681.1	937.8	1078.9
62.5°	7386.5	5698.0	4956.4	4391.8	3851.8	1199.9	570.2	408.8	590.3	665.5
65°	7593.7	6010.6	5284.6	4613.6	4099.3	1134.8	358.4	211.8	237.4	262.2
67.5°	8274.8	6247.1	5385.4	4532.9	3993.9	943.2	197.1	110.9	80.7	80.7
70°	8294.9	5662.2	4528.3	3579.6	3191.8	645.3	96.2	45.8	5.5	0.0
72.5°	6071.1	3872.9	2470.4	1653.7	1477.7	287.8	70.6	25.7	0.0	0.0
75°	3903.2	2339.3	1199.9	736.1	499.6	80.7	45.8	10.1	0.0	0.0
77.5°	2893.9	1401.6	635.2	348.3	176.9	10.1	5.5	0.0	0.0	0.0
80°	1487.8	600.4	242.0	126.5	30.2	0.0	0.0	0.0	0.0	0.0
82.5°	161.3	76.1	30.2	5.5	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
95°	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
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)