

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: 769002\_350MP

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: 769002\_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-HS  
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-FORWARD THROW  
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: 12007.9 lumens  
Efficiency: 36.4%  
Efficacy: 30.2 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U2 - G4

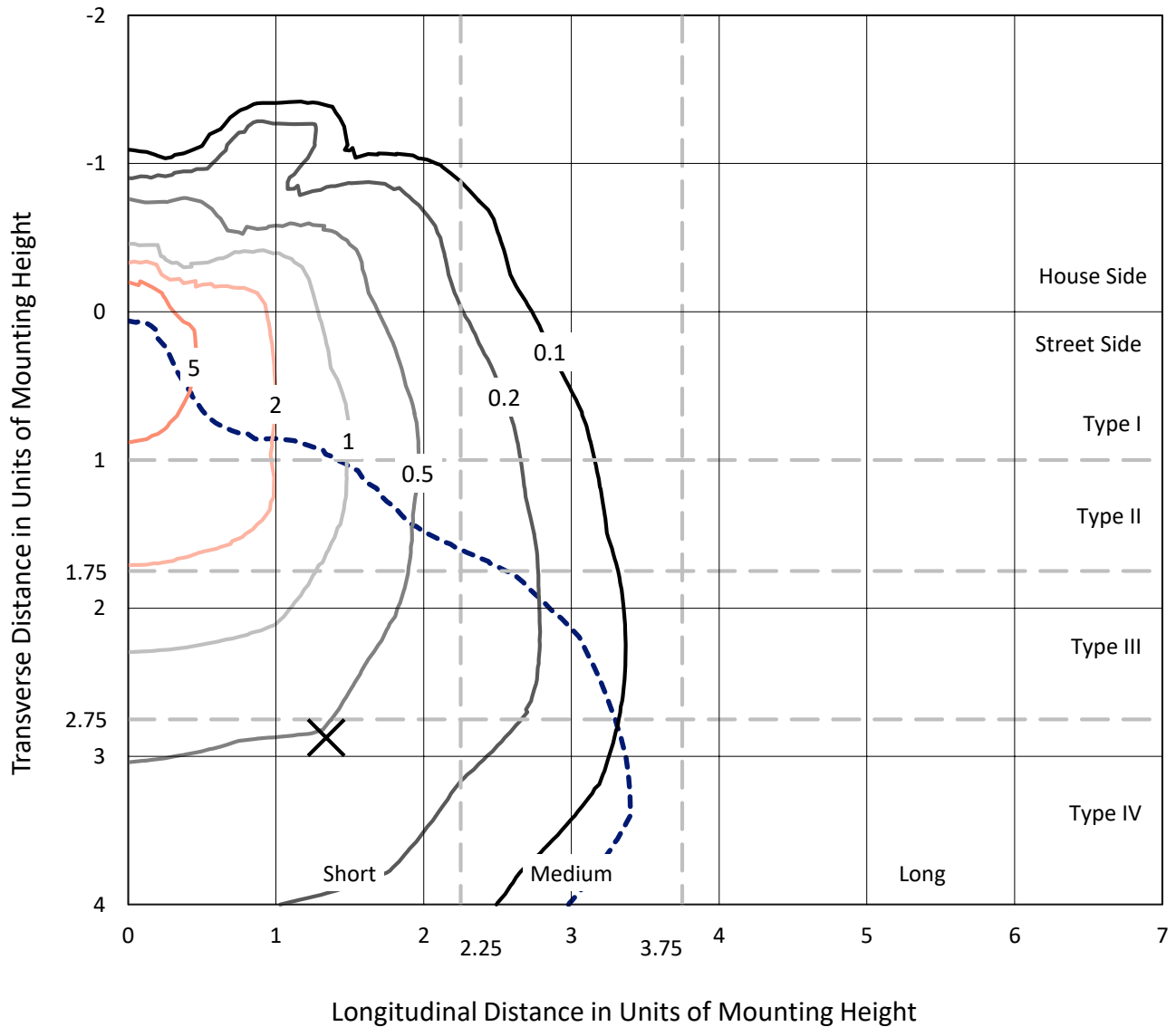
Input Watts (W): 397  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

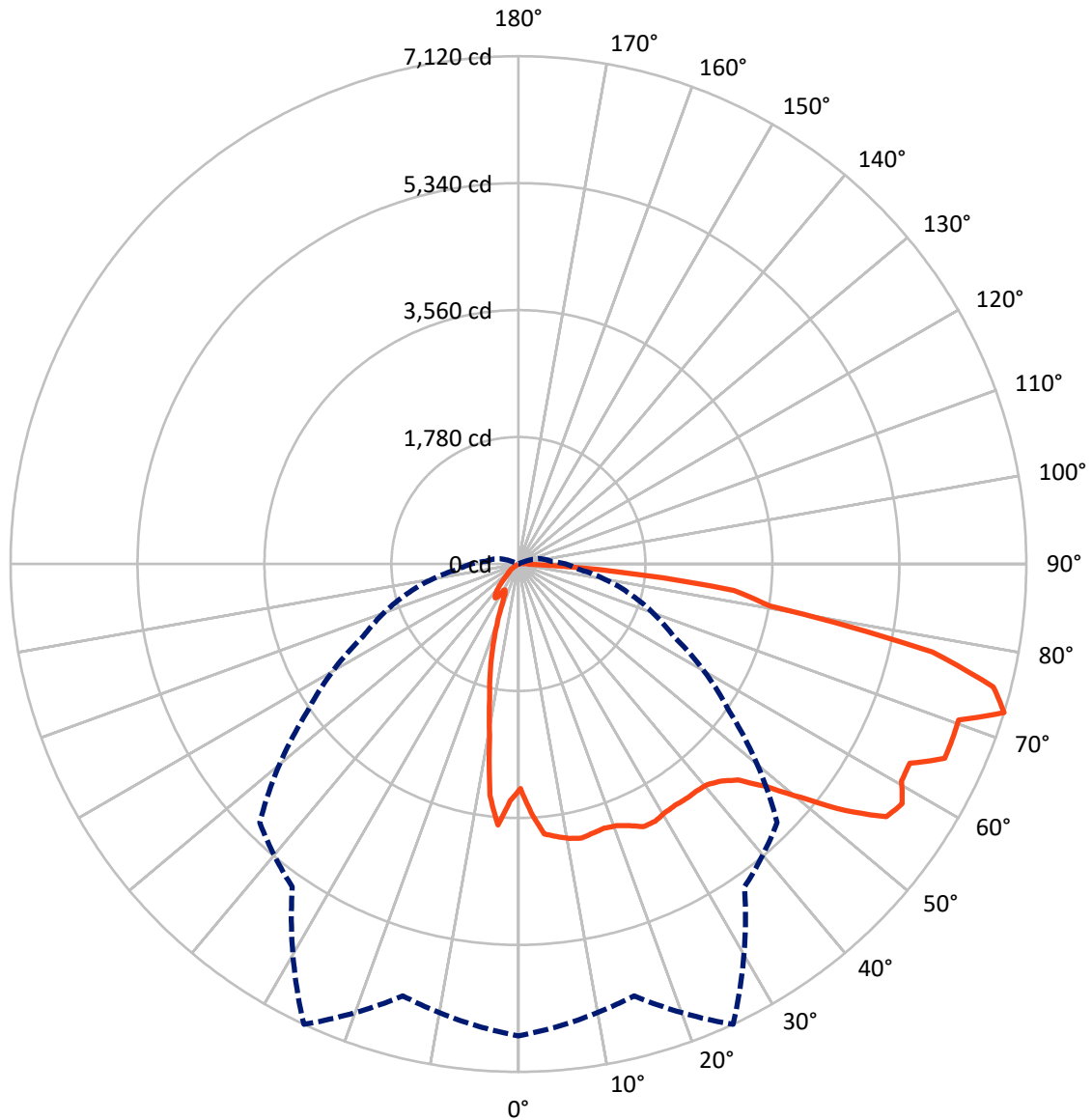
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.5 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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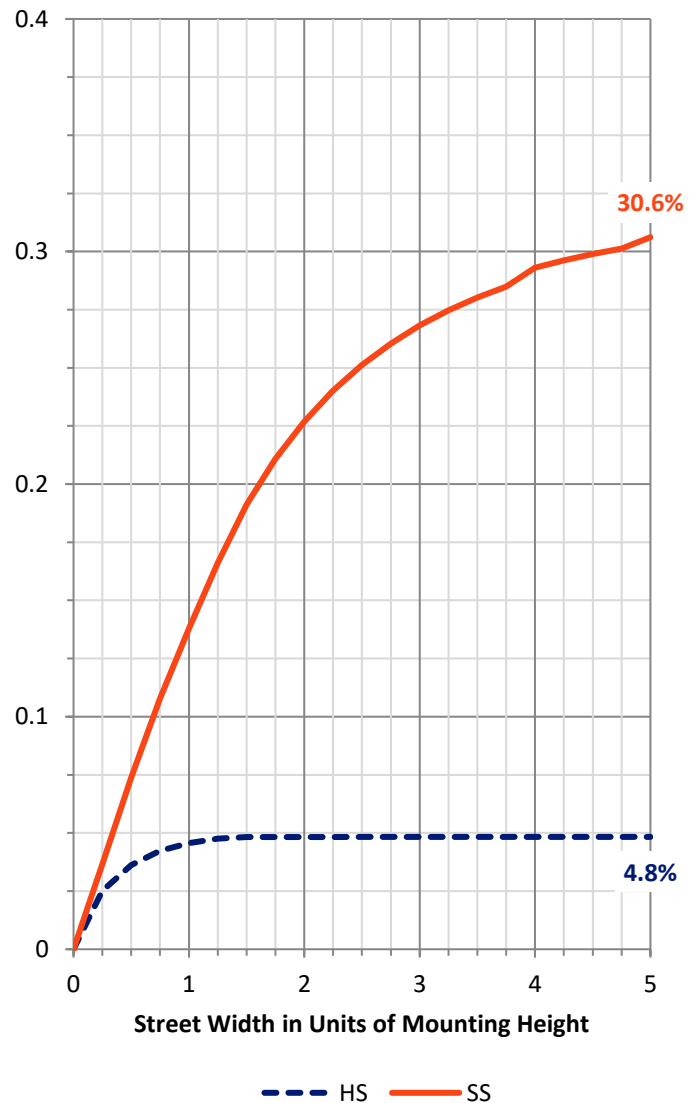
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1607.4	0.0	1607.4
	% Lamp	4.9	0.0	4.9
<b>Street Side</b>	Lumens	10370.6	30.0	10400.6
	% Lamp	31.4	0.1	31.5
<b>Total</b>	Lumens	11978.0	30.0	12007.9
	% Lamp	36.3	0.1	36.4

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	319.0	2.7	1.0
10°-20°	746.4	6.2	2.3
20°-30°	970.8	8.1	2.9
30°-40°	1280.9	10.7	3.9
40°-50°	1637.2	13.6	5.0
50°-60°	2162.7	18.0	6.6
60°-70°	2314.7	19.3	7.0
70°-80°	2037.3	17.0	6.2
80°-90°	509.0	4.2	1.5
90°-100°	27.2	0.2	0.1
100°-110°	5.4	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°	11978.0	99.8	36.3
0°-180°	12007.9	100.0	36.4



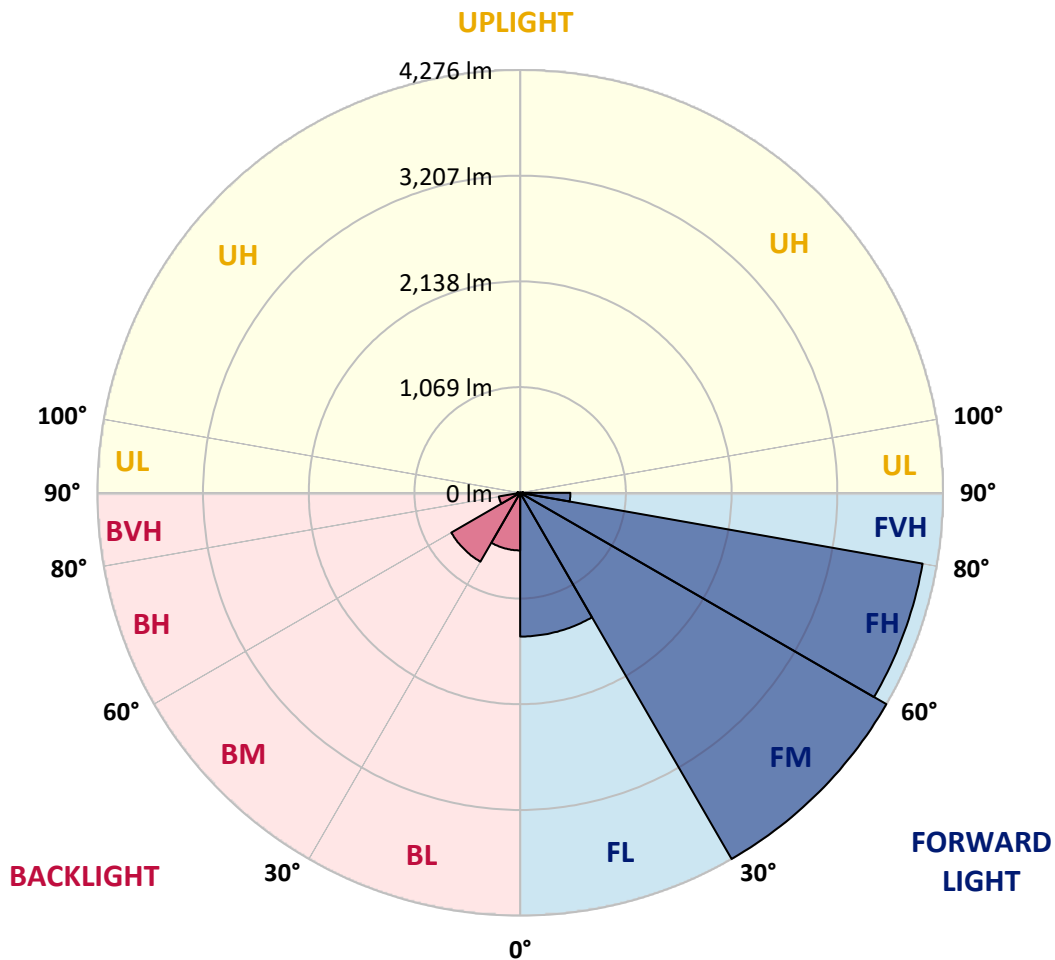
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1453.6	4.4			
FM (30°-60°)	4276.4	13.0			
FH (60°-80°)	4133.0	12.5			G2/5000
FVH (80°-90°)	507.6	1.5			G4/750
BL (0°-30°)	582.7	1.8	B2/1000		
BM (30°-60°)	804.3	2.4	B1/1000		
BH (60°-80°)	219.0	0.7	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	27.2	0.1		U2/50	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	20992.1	63.6			

**BUG Rating: B2-U2-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0
2.5°	3529.2	3539.2	3524.6	3494.3	3464.1	3403.6	3322.9	3252.3	3206.5	3166.2	3146.0
5°	3841.8	3847.2	3837.2	3801.4	3776.7	3716.2	3579.6	3428.3	3277.1	3151.5	3105.7
7.5°	3893.1	3883.0	3887.6	3857.3	3851.8	3806.9	3690.5	3514.5	3302.8	3065.3	2984.7
10°	3923.3	3923.3	3927.9	3913.2	3903.2	3827.1	3680.4	3498.9	3277.1	2939.8	2818.8
12.5°	3953.6	3958.2	3958.2	3943.5	3913.2	3791.3	3579.6	3393.5	3171.7	2798.6	2637.2
15°	3983.8	3988.4	3963.7	3913.2	3861.9	3696.0	3454.0	3226.7	3045.2	2641.8	2440.2
17.5°	4064.5	4054.4	4004.0	3893.1	3806.9	3605.2	3333.0	3095.6	2909.5	2490.6	2233.9
20°	4145.2	4149.8	4054.4	3917.8	3771.2	3534.7	3226.7	2994.8	2818.8	2369.6	2046.9
22.5°	4276.2	4270.8	4180.0	3983.8	3751.0	3458.6	3156.1	2934.2	2738.1	2319.2	1936.0
25°	4367.0	4351.4	4280.8	4079.2	3720.8	3383.4	3095.6	2869.2	2662.0	2299.0	1915.8
27.5°	4377.1	4361.5	4280.8	4084.7	3710.7	3307.3	3014.9	2803.2	2581.3	2278.8	1931.4
30°	4336.8	4326.7	4246.0	4044.3	3670.3	3246.8	2939.8	2697.8	2496.1	2258.7	1981.8
32.5°	4367.0	4336.8	4250.6	4034.2	3640.1	3216.6	2873.8	2607.0	2409.9	2244.0	2062.5
35°	4367.0	4356.9	4280.8	4044.3	3615.3	3186.3	2813.2	2536.4	2359.5	2233.9	2133.1
37.5°	4447.7	4432.1	4351.4	4044.3	3605.2	3176.2	2793.1	2506.2	2324.7	2213.8	2143.2
40°	4629.2	4619.1	4488.0	4069.1	3589.7	3166.2	2793.1	2506.2	2324.7	2178.0	2112.9
42.5°	4820.8	4810.7	4649.3	4159.8	3609.8	3176.2	2823.3	2516.2	2314.6	2117.5	2062.5
45°	5113.2	5103.1	4891.3	4316.6	3716.2	3222.1	2889.3	2561.2	2314.6	2077.2	1996.5
47.5°	5536.7	5521.1	5254.3	4653.9	3933.4	3297.2	2974.6	2611.6	2278.8	1991.9	1905.8
50°	6121.5	6101.3	5783.2	5148.0	4246.0	3454.0	3091.0	2667.5	2213.8	1911.2	1790.2
52.5°	6585.3	6565.2	6317.7	5742.9	4659.4	3685.9	3222.1	2707.8	2127.6	1815.0	1699.5
55°	6676.1	6655.9	6519.3	6257.2	5183.8	4018.7	3333.0	2762.8	2072.6	1754.5	1633.5
57.5°	6464.3	6454.2	6343.3	6343.3	5702.6	4391.8	3413.7	2818.8	2087.2	1734.3	1562.9
60°	6121.5	6116.0	6010.6	6171.9	5889.6	4669.5	3458.6	2859.1	2112.9	1704.1	1492.3
62.5°	6222.3	6206.8	6035.3	6156.3	5742.9	4689.7	3478.8	2843.5	2102.8	1618.8	1401.6
65°	6464.3	6438.7	6499.2	6569.8	5490.8	4498.1	3393.5	2732.6	2036.8	1487.8	1270.5
67.5°	6131.6	6116.0	6232.4	6559.7	5531.2	4397.2	3302.8	2596.9	1951.6	1351.2	1149.5
70°	6363.5	6323.2	6242.5	6545.0	5466.1	4568.7	3443.9	2500.7	1845.2	1195.3	978.1
72.5°	6615.6	6504.7	6267.2	7119.8	5526.6	5127.8	3615.3	2399.8	1618.8	847.0	665.5
75°	6494.6	6408.4	6257.2	6877.8	5379.9	5072.8	3423.8	1936.0	973.5	514.2	378.6
77.5°	6252.6	6131.6	6020.7	5934.5	4422.0	3933.4	2667.5	1270.5	584.8	352.9	267.7
80°	4639.2	4563.2	4185.5	3575.0	2571.2	2530.9	1850.8	937.8	433.6	231.9	141.2
82.5°	4336.8	4195.6	3740.9	3045.2	2016.7	1356.7	832.3	403.3	187.0	76.1	45.8
85°	1946.1	1794.8	1573.0	1371.3	514.2	408.8	267.7	60.5	5.5	0.0	0.0
87.5°	322.7	318.1	252.1	151.2	76.1	25.7	5.5	0.0	0.0	0.0	0.0
90°	332.8	338.2	267.7	156.8	76.1	25.7	5.5	0.0	0.0	0.0	0.0
95°	171.4	166.8	121.0	55.9	20.2	5.5	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-FT-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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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0
2.5°	3125.8	3111.2	3085.5	3131.3	3181.8	3267.0	3322.9	3377.9	3413.7	3418.2
5°	3055.2	3030.5	3101.1	3236.8	3373.3	3544.8	3670.3	3761.1	3801.4	3811.5
7.5°	2909.5	2909.5	3014.9	3146.0	3242.2	3287.2	3267.0	3236.8	3212.0	3216.6
10°	2712.4	2717.9	2803.2	2828.8	2742.7	2607.0	2445.7	2309.1	2213.8	2198.2
12.5°	2470.4	2480.5	2566.7	2450.2	2244.0	2087.2	1936.0	1774.7	1583.1	1552.8
15°	2264.2	2258.7	2258.7	1976.3	1734.3	1663.8	1578.5	1462.1	1220.1	1169.7
17.5°	2032.2	1991.9	1820.5	1361.2	1155.0	1235.7	1230.2	1149.5	963.4	917.6
20°	1810.4	1719.7	1376.8	867.2	695.8	781.9	902.9	862.6	746.2	726.0
22.5°	1659.2	1497.8	1094.5	655.4	509.7	524.3	615.1	645.3	594.9	594.9
25°	1588.6	1376.8	1003.8	570.2	418.9	413.4	453.8	494.1	494.1	504.2
27.5°	1598.7	1341.1	993.7	524.3	373.1	373.1	408.8	383.2	393.2	393.2
30°	1669.2	1341.1	998.2	489.5	363.0	413.4	423.5	423.5	439.1	433.6
32.5°	1770.1	1341.1	1013.8	469.3	378.6	459.2	539.9	519.8	529.8	544.5
35°	1881.0	1361.2	1028.5	459.2	413.4	509.7	574.8	484.0	494.1	514.2
37.5°	1971.8	1421.8	1064.2	473.9	484.0	570.2	534.4	368.5	352.9	373.1
40°	2042.3	1522.6	1099.1	473.9	519.8	560.1	459.2	277.8	231.9	231.9
42.5°	2057.0	1618.8	1104.6	443.7	449.2	473.9	363.0	217.2	181.5	171.4
45°	2006.6	1663.8	1099.1	408.8	393.2	393.2	272.2	156.8	161.3	161.3
47.5°	1885.6	1633.5	1068.8	378.6	368.5	363.0	201.7	100.8	126.5	131.1
50°	1749.9	1552.8	1048.7	373.1	398.8	408.8	176.9	60.5	86.2	90.8
52.5°	1618.8	1472.2	1034.0	352.9	443.7	509.7	151.2	25.7	35.8	30.2
55°	1507.9	1411.7	1008.3	332.8	524.3	590.3	96.2	5.5	5.5	10.1
57.5°	1421.8	1356.7	1008.3	312.6	711.3	550.0	30.2	0.0	0.0	0.0
60°	1331.0	1310.8	983.6	308.0	771.8	272.2	0.0	0.0	0.0	0.0
62.5°	1240.2	1230.2	923.1	322.7	479.4	55.9	0.0	0.0	0.0	0.0
65°	1124.8	1104.6	836.9	181.5	116.4	0.0	0.0	0.0	0.0	0.0
67.5°	993.7	937.8	590.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	766.3	650.8	161.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	453.8	292.4	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	257.6	76.1	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	181.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	100.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.2	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	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)