

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: 766034_350MP

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 766034_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-RW-SG-XX-X
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-VERTICAL LAMP-RECTANGULAR DISTRIBUTION
Light Source: 350 WATT PULSE-START CLEAR ED-37 VBU BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 37000 (1 lamp)
Luminaire Lumens: 25017.7 lumens
Efficiency: 67.6%
Efficacy: 63.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.81' x L: 1.81' x H: 0.83')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U3 - G5

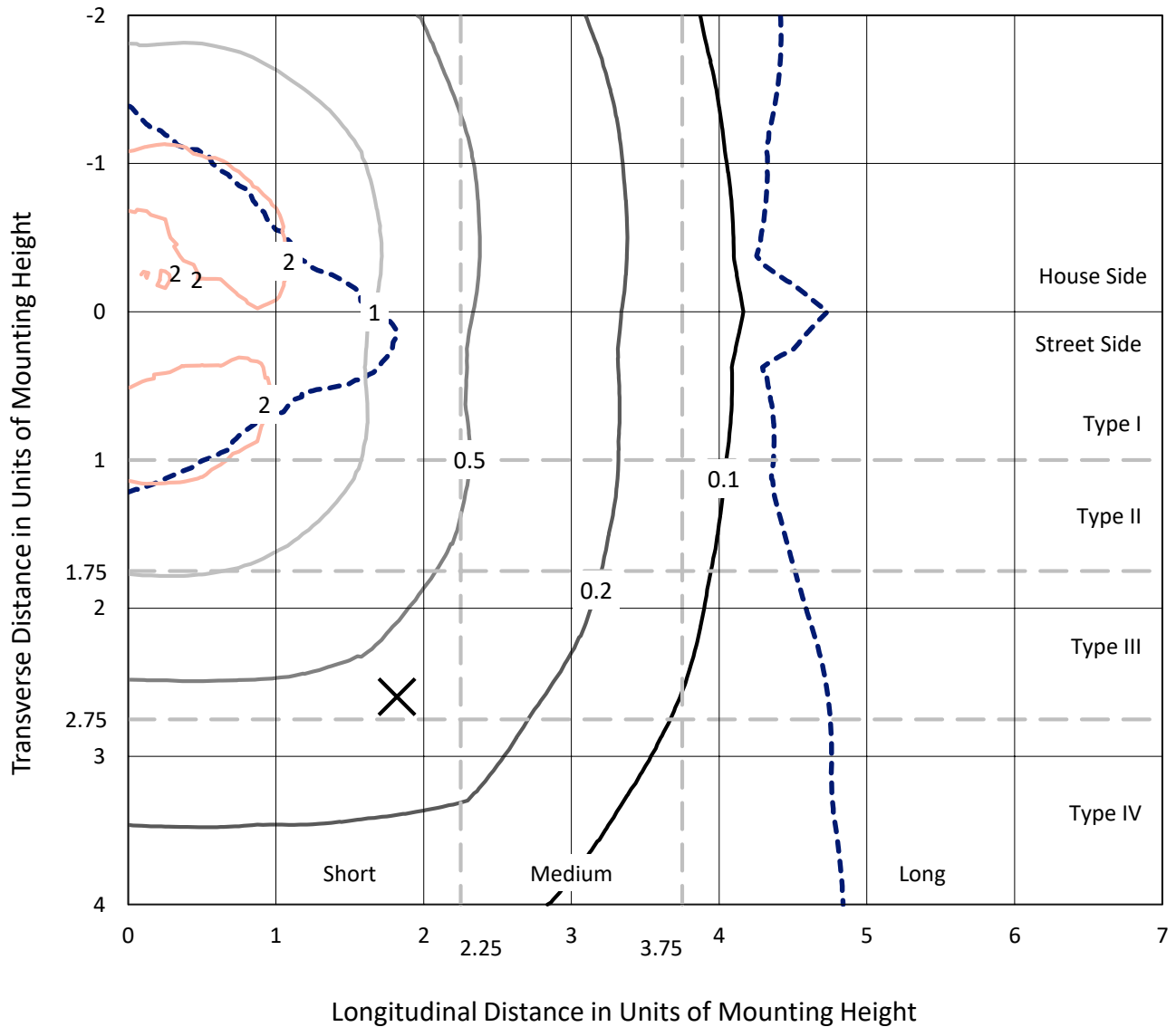
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: 766034_350MP
 CATALOG NUMBER: GSM-XX-350-MP-XX-RW-SG-XX-X

Iso-Footcandle Lines of Horizontal Illumination

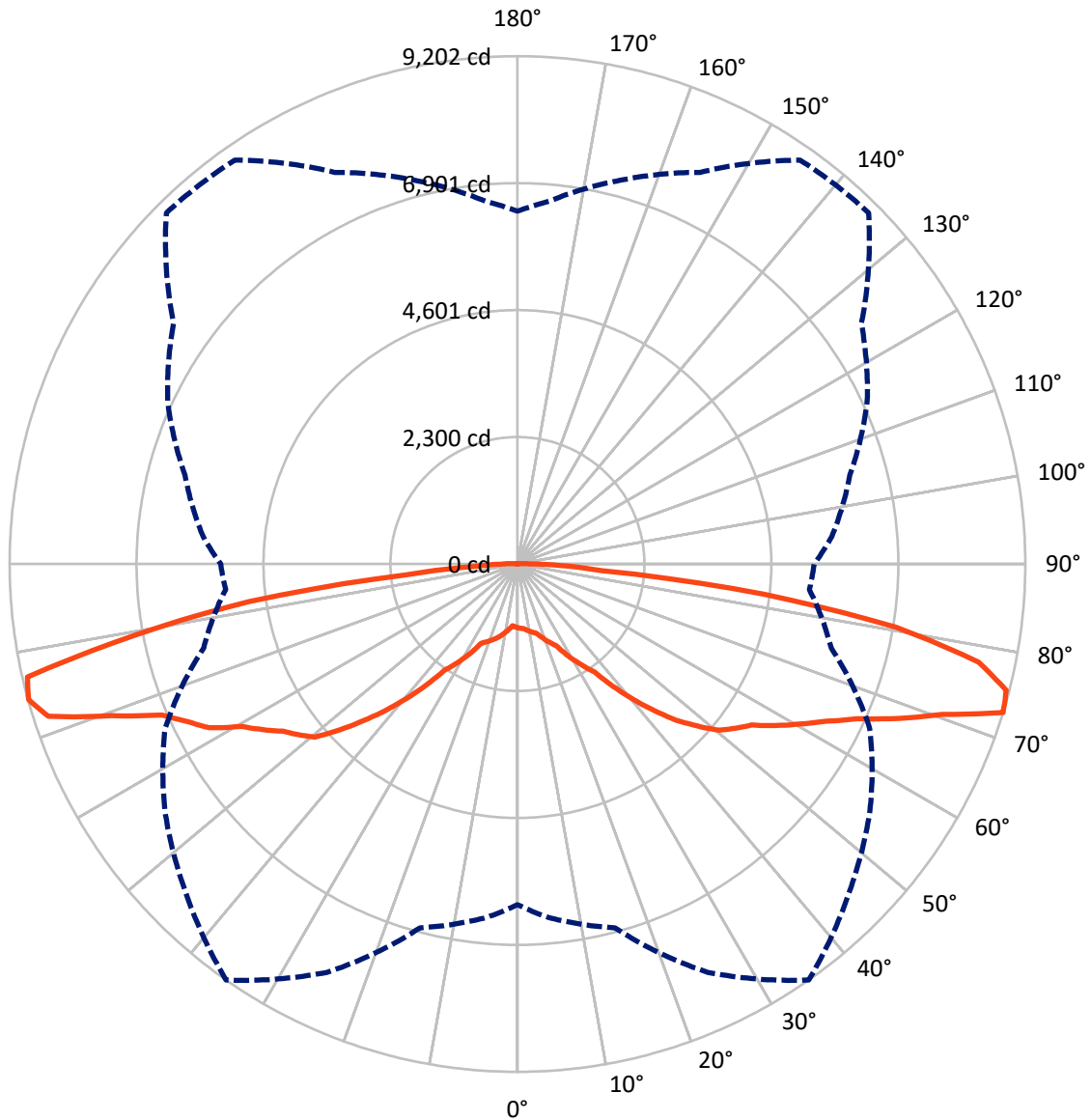
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: 766034_350MP
CATALOG NUMBER: GSM-XX-350-MP-XX-RW-SG-XX-X

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: 766034_350MP

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

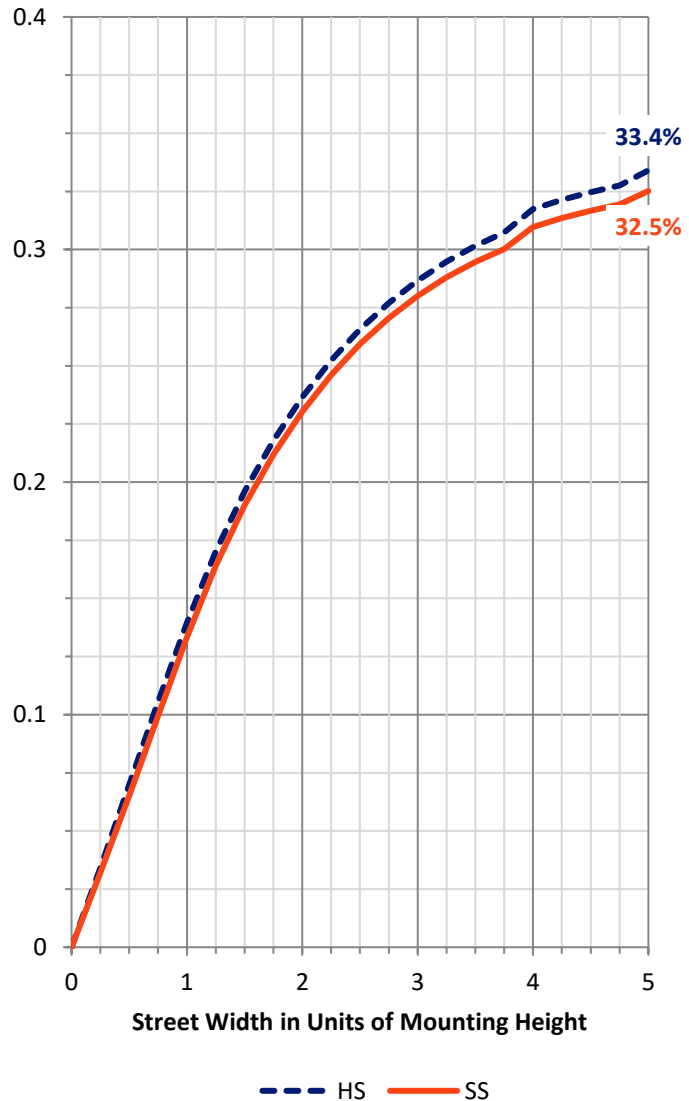
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|--------|----------|--------|---------|
| House Side | Lumens | 12597.8 | 70.4 | 12668.1 |
| | % Lamp | 34.0 | 0.2 | 34.2 |
| Street Side | Lumens | 12296.2 | 53.4 | 12349.5 |
| | % Lamp | 33.2 | 0.1 | 33.4 |
| Total | Lumens | 24893.9 | 123.7 | 25017.7 |
| | % Lamp | 67.3 | 0.3 | 67.6 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|---------|-----------|--------|
| 0°-10° | 112.0 | 0.4 | 0.3 |
| 10°-20° | 375.5 | 1.5 | 1.0 |
| 20°-30° | 771.3 | 3.1 | 2.1 |
| 30°-40° | 1549.3 | 6.2 | 4.2 |
| 40°-50° | 2942.6 | 11.8 | 8.0 |
| 50°-60° | 4450.0 | 17.8 | 12.0 |
| 60°-70° | 6104.2 | 24.4 | 16.5 |
| 70°-80° | 6800.8 | 27.2 | 18.4 |
| 80°-90° | 1879.9 | 7.5 | 5.1 |
| 90°-100° | 99.3 | 0.4 | 0.3 |
| 100°-110° | 26.0 | 0.1 | 0.1 |
| 110°-120° | 4.8 | 0.0 | 0.0 |
| 120°-130° | 0.6 | 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° | 24893.9 | 99.5 | 67.3 |
| 0°-180° | 25017.7 | 100.0 | 67.6 |



REPORT NUMBER: 766034_350MP

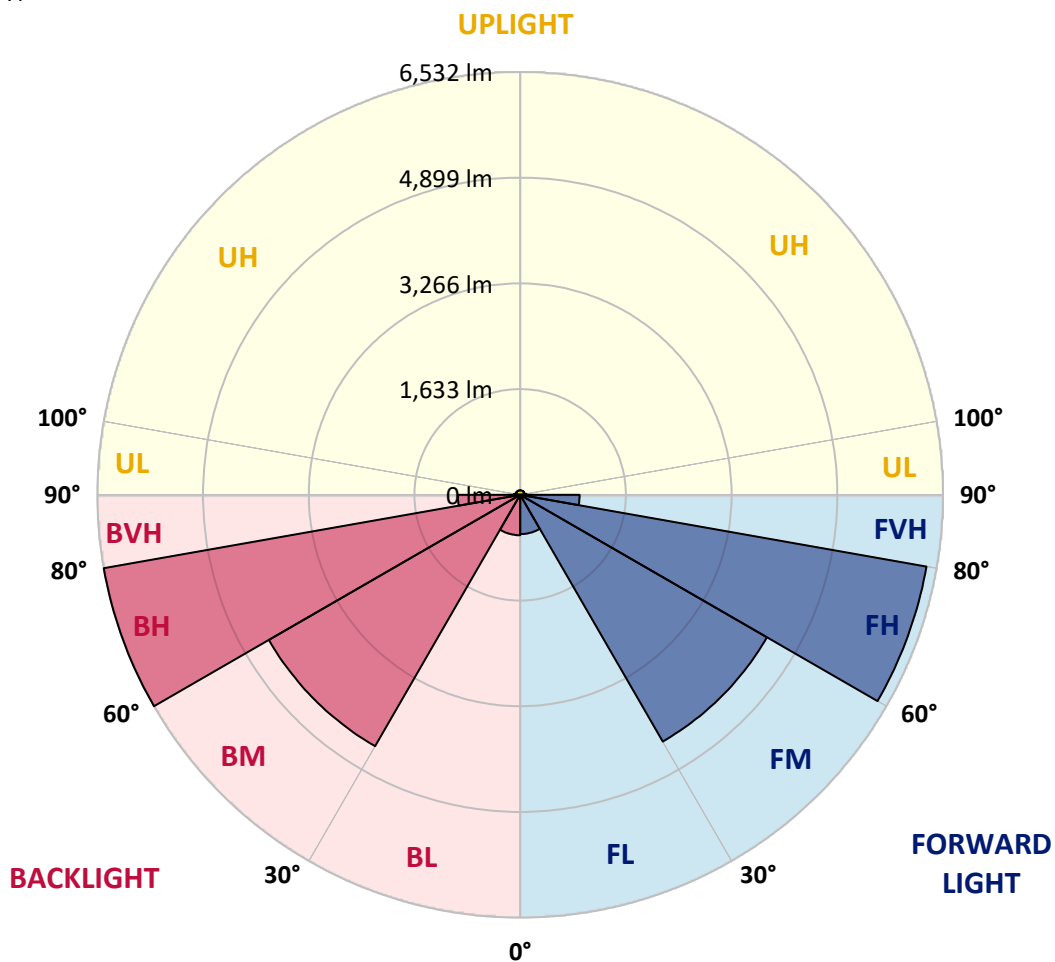
CATALOG NUMBER: GSM-XX-350-MP-XX-RW-SG-XX-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Lamp | Zone Rating/Lumen Limit | | |
|----------------|---------|--------|-------------------------|--------|---------|
| | | | B | U | G |
| FL (0°-30°) | 607.3 | 1.6 | | | |
| FM (30°-60°) | 4401.8 | 11.9 | | | |
| FH (60°-80°) | 6373.3 | 17.2 | | | G3/7500 |
| FVH (80°-90°) | 917.5 | 2.5 | | | G5 |
| BL (0°-30°) | 624.3 | 1.7 | B2/1000 | | |
| BM (30°-60°) | 4483.0 | 12.1 | B3/5000 | | |
| BH (60°-80°) | 6531.8 | 17.7 | B5 | | G3/7500 |
| BVH (80°-90°) | 962.4 | 2.6 | | | G5 |
| UL (90°-100°) | 99.3 | 0.3 | | U3/500 | |
| UH (100°-180°) | 70.4 | 0.2 | | U3/500 | |
| Trapped Light | 11982.3 | 32.4 | | | |

BUG Rating: B5-U3-G5

Type V Short





REPORT NUMBER: 766034_350MP

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

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1156.2 | 1156.2 | 1156.2 | 1156.2 | 1156.2 | 1156.2 | 1156.2 | 1156.2 | 1156.2 | 1156.2 | 1156.2 |
| 5° | 1202.5 | 1205.6 | 1188.1 | 1192.2 | 1176.8 | 1162.4 | 1167.6 | 1147.0 | 1141.9 | 1116.2 | 1128.5 |
| 15° | 1253.9 | 1257.0 | 1249.8 | 1284.7 | 1303.2 | 1276.5 | 1223.1 | 1202.5 | 1162.4 | 1185.0 | 1213.8 |
| 25° | 1617.7 | 1631.1 | 1635.2 | 1648.6 | 1641.4 | 1595.1 | 1545.8 | 1474.9 | 1369.0 | 1377.2 | 1408.1 |
| 35° | 2387.5 | 2361.8 | 2378.3 | 2397.8 | 2398.8 | 2364.9 | 2267.3 | 2160.4 | 1952.8 | 1983.6 | 2088.4 |
| 45° | 3688.7 | 3948.7 | 3960.0 | 4010.4 | 4036.1 | 3931.2 | 3716.4 | 3649.6 | 3237.5 | 3390.6 | 3400.9 |
| 50° | 4627.1 | 4645.6 | 4743.2 | 4894.3 | 4735.0 | 4983.7 | 4507.8 | 4387.6 | 3752.4 | 3926.1 | 4054.6 |
| 55° | 4774.0 | 4949.8 | 5177.9 | 5295.1 | 5150.2 | 5195.4 | 4934.4 | 4884.0 | 4082.3 | 4161.5 | 4412.2 |
| 60° | 5175.9 | 5264.3 | 5520.2 | 5681.6 | 5887.1 | 5825.4 | 5707.2 | 5257.1 | 4625.0 | 4382.4 | 4604.4 |
| 62.5° | 5536.6 | 5536.6 | 5868.6 | 6199.6 | 6275.6 | 6286.9 | 6232.4 | 5618.9 | 4893.2 | 4704.1 | 4878.9 |
| 65° | 5426.7 | 5768.9 | 6151.2 | 6600.4 | 6757.6 | 6716.5 | 6546.9 | 5973.4 | 5101.9 | 4860.4 | 5034.1 |
| 67.5° | 5922.1 | 5995.0 | 6368.1 | 6928.2 | 7461.7 | 7168.7 | 6955.0 | 6286.9 | 5272.5 | 4949.8 | 5144.0 |
| 70° | 6217.0 | 6230.4 | 6773.1 | 7578.8 | 8162.6 | 7800.8 | 7476.1 | 6542.8 | 5579.8 | 5144.0 | 5301.3 |
| 72.5° | 6172.8 | 6427.7 | 6824.4 | 8162.6 | 9201.7 | 8477.1 | 7796.7 | 7043.4 | 5885.1 | 5308.5 | 5377.3 |
| 75° | 5584.9 | 5643.5 | 6261.2 | 7477.1 | 9148.2 | 7970.4 | 7388.7 | 6265.3 | 5540.7 | 4942.6 | 5088.5 |
| 77.5° | 4372.2 | 4399.9 | 5401.0 | 6672.3 | 8543.9 | 7336.3 | 6414.4 | 5285.9 | 4571.6 | 4466.7 | 4779.2 |
| 80° | 2665.0 | 2964.1 | 3436.9 | 4581.8 | 6960.1 | 5645.6 | 4709.3 | 4059.7 | 3097.7 | 3330.0 | 3895.3 |
| 82.5° | 1497.5 | 1837.7 | 1952.8 | 2733.9 | 4499.6 | 4021.7 | 3358.8 | 2569.4 | 2328.9 | 2190.2 | 2298.1 |
| 85° | 676.3 | 613.6 | 853.1 | 1264.2 | 1543.7 | 1446.1 | 1643.4 | 1057.6 | 921.9 | 977.4 | 1162.4 |
| 87.5° | 247.7 | 281.6 | 407.0 | 591.0 | 764.7 | 704.0 | 654.7 | 639.3 | 378.2 | 345.3 | 322.7 |
| 90° | 64.8 | 94.6 | 112.0 | 164.4 | 216.9 | 232.3 | 216.9 | 192.2 | 161.4 | 106.9 | 106.9 |
| 95° | 23.6 | 32.9 | 43.2 | 59.6 | 70.9 | 63.7 | 68.9 | 71.9 | 61.7 | 41.1 | 39.1 |
| 105° | 7.2 | 10.3 | 12.3 | 15.4 | 7.2 | 8.2 | 13.4 | 22.6 | 17.5 | 7.2 | 3.1 |
| 115° | 0.0 | 0.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 3.1 | 3.1 | 3.1 |
| 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 |
| 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 |



REPORT NUMBER: 766034_350MP

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

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1156.2 | 1156.2 | 1156.2 | 1156.2 | 1156.2 | 1156.2 | 1156.2 | 1156.2 | 1156.2 | 1156.2 |
| 5° | 1135.7 | 1113.1 | 1114.1 | 1107.9 | 1102.8 | 1121.3 | 1102.8 | 1105.9 | 1128.5 | 1088.4 |
| 15° | 1251.8 | 1354.6 | 1375.2 | 1412.2 | 1435.8 | 1369.0 | 1405.0 | 1372.1 | 1356.7 | 1377.2 |
| 25° | 1466.6 | 1578.7 | 1564.3 | 1594.1 | 1602.3 | 1574.6 | 1533.4 | 1543.7 | 1514.9 | 1553.0 |
| 35° | 2153.2 | 2153.2 | 2361.8 | 2341.3 | 2406.0 | 2334.1 | 2280.6 | 2237.5 | 2148.1 | 2211.8 |
| 45° | 3593.1 | 3769.9 | 3886.0 | 3918.9 | 3886.0 | 3977.5 | 3838.7 | 3874.7 | 3745.2 | 3719.5 |
| 50° | 4141.9 | 4548.9 | 4674.3 | 4937.4 | 4832.6 | 4830.6 | 4657.9 | 4658.9 | 4468.8 | 4355.7 |
| 55° | 4343.4 | 4834.7 | 4960.1 | 5211.9 | 5136.8 | 5217.0 | 5021.7 | 4830.6 | 4743.2 | 4596.2 |
| 60° | 4817.2 | 5206.7 | 5498.6 | 5991.9 | 5859.4 | 5797.7 | 5787.4 | 5677.4 | 5291.0 | 5385.6 |
| 62.5° | 5149.2 | 5485.2 | 5876.8 | 6297.2 | 6375.3 | 6321.9 | 6313.6 | 6112.2 | 5715.5 | 5671.3 |
| 65° | 5257.1 | 5682.6 | 6124.5 | 6631.2 | 6757.6 | 6626.1 | 6682.6 | 6261.2 | 5933.4 | 5887.1 |
| 67.5° | 5377.3 | 5812.1 | 6355.8 | 6929.3 | 7199.6 | 6998.1 | 7077.3 | 6663.1 | 6127.6 | 6148.2 |
| 70° | 5588.0 | 5968.3 | 6651.8 | 7200.6 | 8090.7 | 7848.1 | 7434.9 | 7002.2 | 6324.9 | 6271.5 |
| 72.5° | 5717.5 | 6235.5 | 6993.0 | 7607.6 | 8997.2 | 8933.4 | 7827.6 | 7197.5 | 6596.3 | 6391.7 |
| 75° | 5181.0 | 5633.2 | 6345.5 | 7058.8 | 8927.3 | 9193.5 | 7207.8 | 6579.8 | 5930.3 | 5664.1 |
| 77.5° | 4350.6 | 4532.5 | 5131.7 | 6275.6 | 8377.4 | 9112.3 | 6437.0 | 5595.2 | 5435.9 | 5272.5 |
| 80° | 3302.2 | 3332.1 | 3572.6 | 4360.9 | 6491.4 | 7018.7 | 4650.7 | 3764.7 | 3829.5 | 3775.0 |
| 82.5° | 2012.4 | 2029.9 | 2165.5 | 2694.8 | 4121.4 | 4911.7 | 2771.9 | 2598.2 | 2098.7 | 2060.7 |
| 85° | 944.5 | 973.3 | 1234.4 | 1446.1 | 1894.2 | 2016.5 | 1622.9 | 1042.2 | 970.2 | 872.6 |
| 87.5° | 340.2 | 432.7 | 603.3 | 726.6 | 688.6 | 716.4 | 642.4 | 412.1 | 343.3 | 319.6 |
| 90° | 107.9 | 148.0 | 216.9 | 279.6 | 283.7 | 289.8 | 240.5 | 202.5 | 117.2 | 106.9 |
| 95° | 44.2 | 81.2 | 86.3 | 97.6 | 84.3 | 91.5 | 94.6 | 71.9 | 58.6 | 44.2 |
| 105° | 7.2 | 18.5 | 23.6 | 15.4 | 12.3 | 13.4 | 22.6 | 17.5 | 10.3 | 7.2 |
| 115° | 3.1 | 3.1 | 3.1 | 3.1 | 5.1 | 5.1 | 5.1 | 2.1 | 2.1 | 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 |
| 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)